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

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : RFP 905

WESTON SOLUTIONS, INC.

1090 King Georges Post Road

Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

ORDER ID : Q1421

ATTENTION : Smita Sumbaly

Laboratory Certification ID # 20012

Table Of Contents for Q1421

1) SEMI-VOLATILE DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 7
5) Conformance/Non Conformance 8
6) QA Checklist 10
7) Chronicle 11
8) Hit Summary 12
9) QC Data Summary For SVOC-TCL BNA -20 14
- 9.1) Deuterated Monitoring Compound Summary 15
- 9.2) MS/MSD Summary 16
- 9.3) LCS/LCSD Summary 20
- 9.4) Method Blank Summary 22
- 9.5) GS/MS Tune Summary 23
- 9.6) Internal Standard Area and RT Summary 26

10) Sample Data 30
- 10.1) P001-CLAY-CF01-01 31
- 10.2) P001-CLAY-CF01-02 60
- 10.3) P001-CLAY-CF02-01 83

11) Calibration Data Summary 104
- 11.1) Initial Calibration Data 3
  - 11.1.1) BF020625 105
- 11.2) Continued Calibration Data 513
  - 11.2.1) BF141755.D 513
  - 11.2.2) BF141775.D 570

12) QC Sample Data 627
- 12.1) Tune Raw Data 628
- 12.2) Method Blank Data 640
- 12.3) LCS Data 655
- 12.4) MS Data 707
- 12.5) MSD Data 759

13) Manual Integration 811
14) Analytical Runlogs 814
15) Percent Solid 824
16) Extraction Logs 829

16.1) PB166853.pdf 829
16.2) PB166853IC.pdf 831
17) Standard Prep Logs 832
18) Shipping Document 1018
18.1) Chain Of Custody 1019
18.2) ROC 1022
18.3) Lab Certificate 1024
18.4) Internal COC 1025

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

Cover Page

Order ID : Q1421

Project ID : RFP 905

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
Q1421-01	P001-CLAY-CF01-01
Q1421-02	P001-CLAY-CF01-01MS
Q1421-03	P001-CLAY-CF01-01MSD
Q1421-04	P001-CLAY-CF01-01
Q1421-05	P001-CLAY-CF01-01MS
Q1421-06	P001-CLAY-CF01-01MSD
Q1421-07	P001-CLAY-CF01-02
Q1421-08	P001-CLAY-CF01-02
Q1421-09	P001-CLAY-CF02-01
Q1421-10	P001-CLAY-CF02-01

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

Signature : _____ Date: 3/1/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 905
Project # N/A
Chemtech Project # Q1421
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 02/24/2025.

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

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 SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for PB166853BS [Terphenyl-d14 - 116%], marginally biased high, therefore no corrective action was taken.
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 for {PB166853BS} with File ID: BF141777.D met requirements for all samples except for Butylbenzylphthalate[106%], biased high but the associate samples have no positive hit for these compounds therefore no corrective action was taken.

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

The Initial Calibration met the requirements.

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

The Continuous Calibration File ID BF141755.D met the requirements except for Benzo(g,h,i)perylene,Bis(2-ethylhexyl)phthalate,Di-n-octyl phthalate,Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF141775.D met the requirements except for Bis(2-ethylhexyl)phthalate and Di-n-octyl phthalate, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <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

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

CHEMTECH PROJECT NUMBER: Q1421 MATRIX: Solid

METHOD: 8270E/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.		✓	
	The Initial Calibration met the requirements . The Continuous Calibration File ID BF141755.D met the requirements except for Benzo(g,h,i)perylene,Bis(2-ethylhexyl)phthalate,Di-n-octyl phthalate,Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.			
	The Continuous Calibration File ID BF141775.D met the requirements except for Bis(2-ethylhexyl)phthalate and Di-n-octyl phthalate, The associate samples have no positive hit for these compounds therefore no corrective action was taken.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for PB166853BS [Terphenyl-d14 - 116%], marginally biased high, therefore no corrective action was taken.			

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

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike for {PB166853BS} with File ID: BF141777.D met requirements for all samples except for Butylbenzylphthalate[106%], biased high but the associate samples have no positive hit for these compounds therefore no corrective action was taken.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

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

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 #: Q1421

	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:** 03/01/2025

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

LAB CHRONICLE

OrderID:	Q1421	**OrderDate:**	2/24/2025 2:56:42 PM
Client:	Weston Solutions, Inc.	**Project:**	RFP 905
Contact:	Smita Sumbaly	**Location:**	H31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1421-01	**P001-CLAY-CF01-01**	**SOIL**			**02/24/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1421-07	**P001-CLAY-CF01-02**	**SOIL**			**02/24/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1421-09	**P001-CLAY-CF02-01**	**SOIL**			**02/24/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : P001-CLAY-CF01-01									
Q1421-01	P001-CLAY-CF01-01	SOIL	1,4-Benzenedicarboxylic acid, bis	*	640.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	13-Octadecenal, (Z)-	*	110.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	150.000	A	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	Benzophenone	*	420.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	Eicosane	*	210.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	Hentriacontane	*	210.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	Heptacosane	*	240.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	Heptadecane, 9-octyl-	*	400.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	Hexadecane, 1-iodo-	*	320.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	n-Hexadecanoic acid	*	2,000.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	Octadecanoic acid	*	730.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	Tetracosane	*	120.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	Triacontane	*	190.000	J	0	0	ug/Kg
Q1421-01	P001-CLAY-CF01-01	SOIL	Trichloroacetic acid, hexadecyl es	*	220.000	J	0	0	ug/Kg
			Total Tics :		**5,960.00**				
			Total Concentration:		**5,960.00**				
Client ID : P001-CLAY-CF01-02									
Q1421-07	P001-CLAY-CF01-02	SOIL	Phenol		110.000	J	110	230	ug/Kg
			Total Svoc :		**110.00**				
Q1421-07	P001-CLAY-CF01-02	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	140.000	A	0	0	ug/Kg
Q1421-07	P001-CLAY-CF01-02	SOIL	9-Octadecenamide, (Z)-	*	160.000	J	0	0	ug/Kg
Q1421-07	P001-CLAY-CF01-02	SOIL	Benzophenone	*	400.000	J	0	0	ug/Kg
Q1421-07	P001-CLAY-CF01-02	SOIL	Heptadecyl trifluoroacetate	*	360.000	J	0	0	ug/Kg
Q1421-07	P001-CLAY-CF01-02	SOIL	n-Hexadecanoic acid	*	350.000	J	0	0	ug/Kg
Q1421-07	P001-CLAY-CF01-02	SOIL	Pentanedioic acid, dimethyl ester	*	98.800	J	0	0	ug/Kg
Q1421-07	P001-CLAY-CF01-02	SOIL	Tetradecanoic acid	*	170.000	J	0	0	ug/Kg
			Total Tics :		**1,678.80**				
			Total Concentration:		**1,788.80**				
Client ID : P001-CLAY-CF02-01									
Q1421-09	P001-CLAY-CF02-01	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	150.000	A	0	0	ug/Kg
Q1421-09	P001-CLAY-CF02-01	SOIL	9-Octadecenamide, (Z)-	*	85.800	J	0	0	ug/Kg
Q1421-09	P001-CLAY-CF02-01	SOIL	Benzophenone	*	190.000	J	0	0	ug/Kg
Q1421-09	P001-CLAY-CF02-01	SOIL	n-Hexadecanoic acid	*	110.000	J	0	0	ug/Kg
Q1421-09	P001-CLAY-CF02-01	SOIL	Pentafluoropropionic acid, octade	*	240.000	J	0	0	ug/Kg
Q1421-09	P001-CLAY-CF02-01	SOIL	Supraene	*	110.000	J	0	0	ug/Kg
			Total Tics :		**885.80**				

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

Hit Summary Sheet
SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Concentration:	**885.80**				

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166853BL	PB166853BL	2-Fluorophenol	150	141	94		18	112
		Phenol-d6	150	133	89		15	107
		Nitrobenzene-d5	100	90.7	91		18	107
		2-Fluorobiphenyl	100	97.0	97		20	109
		2,4,6-Tribromophenol	150	135	90		10	116
		Terphenyl-d14	100	104	104		10	105
PB166853BS	PB166853BS	2-Fluorophenol	150	138	92		18	112
		Phenol-d6	150	131	88		15	107
		Nitrobenzene-d5	100	87.9	88		18	107
		2-Fluorobiphenyl	100	95.9	96		20	109
		2,4,6-Tribromophenol	150	145	96		10	116
		Terphenyl-d14	100	116	116	*	10	105
Q1421-01	P001-CLAY-CF01-01	2-Fluorophenol	150	106	71		18	112
		Phenol-d6	150	105	70		15	107
		Nitrobenzene-d5	100	69.1	69		18	107
		2-Fluorobiphenyl	100	75.2	75		20	109
		2,4,6-Tribromophenol	150	89.1	59		10	116
		Terphenyl-d14	100	67.7	68		10	105
Q1421-02MS	P001-CLAY-CF01-01MS	2-Fluorophenol	150	100	67		18	112
		Phenol-d6	150	98.8	66		15	107
		Nitrobenzene-d5	100	65.3	65		18	107
		2-Fluorobiphenyl	100	69.2	69		20	109
		2,4,6-Tribromophenol	150	94.2	63		10	116
		Terphenyl-d14	100	74.9	75		10	105
Q1421-03MSD	P001-CLAY-CF01-01MSD	2-Fluorophenol	150	104	69		18	112
		Phenol-d6	150	101	68		15	107
		Nitrobenzene-d5	100	67.9	68		18	107
		2-Fluorobiphenyl	100	72.5	73		20	109
		2,4,6-Tribromophenol	150	94.1	63		10	116
		Terphenyl-d14	100	71.3	71		10	105
Q1421-07	P001-CLAY-CF01-02	2-Fluorophenol	150	135	90		18	112
		Phenol-d6	150	133	89		15	107
		Nitrobenzene-d5	100	90.8	91		18	107
		2-Fluorobiphenyl	100	92.8	93		20	109
		2,4,6-Tribromophenol	150	107	71		10	116
		Terphenyl-d14	100	79.4	79		10	105
Q1421-09	P001-CLAY-CF02-01	2-Fluorophenol	150	108	72		18	112
		Phenol-d6	150	104	70		15	107
		Nitrobenzene-d5	100	72.1	72		18	107
		2-Fluorobiphenyl	100	77.0	77		20	109
		2,4,6-Tribromophenol	150	84.7	56		10	116
		Terphenyl-d14	100	72.2	72		10	105

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.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1421-02MS		**Client Sample ID: P001-CLAY-CF01-01MS**						**DataFile: BF141762.D**			
Benzaldehyde	2400	0	1300	ug/Kg	54				10	86	
Phenol	2400	0	2100	ug/Kg	88				67	126	
bis(2-Chloroethyl)ether	2400	0	2100	ug/Kg	88				54	125	
2-Chlorophenol	2400	0	2100	ug/Kg	88				79	107	
2-Methylphenol	2400	0	2100	ug/Kg	88				66	122	
2,2-oxybis(1-Chloropropane)	2400	0	1900	ug/Kg	79				65	110	
Acetophenone	2400	0	2200	ug/Kg	92				75	111	
3+4-Methylphenols	2400	0	2200	ug/Kg	92				66	104	
N-Nitroso-di-n-propylamine	2400	0	2000	ug/Kg	83				59	119	
Hexachloroethane	2400	0	2100	ug/Kg	88				65	117	
Nitrobenzene	2400	0	2000	ug/Kg	83				70	119	
Isophorone	2400	0	2200	ug/Kg	92				76	122	
2-Nitrophenol	2400	0	2200	ug/Kg	92				54	145	
2,4-Dimethylphenol	2400	0	2700	ug/Kg	113				44	135	
bis(2-Chloroethoxy)methane	2400	0	2100	ug/Kg	88				68	112	
2,4-Dichlorophenol	2400	0	2100	ug/Kg	88				72	118	
Naphthalene	2400	0	2000	ug/Kg	83				72	110	
4-Chloroaniline	2400	0	850	ug/Kg	35				10	91	
Hexachlorobutadiene	2400	0	2100	ug/Kg	88				66	114	
Caprolactam	2400	0	2200	ug/Kg	92				51	134	
4-Chloro-3-methylphenol	2400	0	2000	ug/Kg	83				57	132	
2-Methylnaphthalene	2400	0	2000	ug/Kg	83				59	123	
Hexachlorocyclopentadiene	4700	0	6200	ug/Kg	132				10	175	
2,4,6-Trichlorophenol	2400	0	2000	ug/Kg	83				72	117	
2,4,5-Trichlorophenol	2400	0	2000	ug/Kg	83				72	117	
1,1-Biphenyl	2400	0	2300	ug/Kg	96				75	113	
2-Chloronaphthalene	2400	0	2100	ug/Kg	88				67	118	
2-Nitroaniline	2400	0	2000	ug/Kg	83				69	127	
Dimethylphthalate	2400	0	2100	ug/Kg	88				70	113	
Acenaphthylene	2400	0	2200	ug/Kg	92				79	118	
2,6-Dinitrotoluene	2400	0	2100	ug/Kg	88				70	125	
3-Nitroaniline	2400	0	1300	ug/Kg	54				30	99	
Acenaphthene	2400	0	2000	ug/Kg	83				70	121	
2,4-Dinitrophenol	4700	0	3000	ug/Kg	64				10	155	
4-Nitrophenol	4700	0	3700	ug/Kg	79				45	133	
Dibenzofuran	2400	0	2000	ug/Kg	83				72	110	
2,4-Dinitrotoluene	2400	0	2100	ug/Kg	88				55	128	
Diethylphthalate	2400	0	2000	ug/Kg	83				70	112	
4-Chlorophenyl-phenylether	2400	0	2100	ug/Kg	88				71	108	
Fluorene	2400	0	2100	ug/Kg	88				68	116	
4-Nitroaniline	2400	0	2000	ug/Kg	83				55	120	
4,6-Dinitro-2-methylphenol	2400	0	1800	ug/Kg	75				10	160	
N-Nitrosodiphenylamine	2400	0	2200	ug/Kg	92				73	118	
4-Bromophenyl-phenylether	2400	0	2200	ug/Kg	92				65	121	
Hexachlorobenzene	2400	0	2200	ug/Kg	92				67	118	
Atrazine	2400	0	2700	ug/Kg	113				79	127	

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.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4700	0	3200	ug/Kg	68				47	128	
Phenanthrene	2400	0	2100	ug/Kg	88				52	128	
Anthracene	2400	0	2200	ug/Kg	92				62	124	
Carbazole	2400	0	2100	ug/Kg	88				59	119	
Di-n-butylphthalate	2400	0	2100	ug/Kg	88				69	118	
Fluoranthene	2400	0	2000	ug/Kg	83				44	125	
Pyrene	2400	0	2200	ug/Kg	92				26	142	
Butylbenzylphthalate	2400	0	2300	ug/Kg	96				64	126	
3,3-Dichlorobenzidine	2400	0	1700	ug/Kg	71				33	116	
Benzo(a)anthracene	2400	0	2200	ug/Kg	92				71	114	
Chrysene	2400	0	2100	ug/Kg	88				57	121	
bis(2-Ethylhexyl)phthalate	2400	0	2600	ug/Kg	108				42	169	
Di-n-octyl phthalate	2400	0	2800	ug/Kg	117				23	175	
Benzo(b)fluoranthene	2400	0	2100	ug/Kg	88				67	121	
Benzo(k)fluoranthene	2400	0	1900	ug/Kg	79				57	134	
Benzo(a)pyrene	2400	0	2200	ug/Kg	92				70	142	
Indeno(1,2,3-cd)pyrene	2400	0	2400	ug/Kg	100				40	129	
Dibenz(a,h)anthracene	2400	0	2400	ug/Kg	100				43	123	
Benzo(g,h,i)perylene	2400	0	2200	ug/Kg	92				24	125	
1,2,4,5-Tetrachlorobenzene	2400	0	2300	ug/Kg	96				69	124	
1,4-Dioxane	2400	0	2100	ug/Kg	88				46	112	
2,3,4,6-Tetrachlorophenol	2400	0	2000	ug/Kg	83				69	112	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1421-03MSD		**Client Sample ID: P001-CLAY-CF01-01MSD**						**DataFile: BF141763.D**			
Benzaldehyde	2400	0	1400	ug/Kg	58		7		10	86	20
Phenol	2400	0	2200	ug/Kg	92		4		67	126	20
bis(2-Chloroethyl)ether	2400	0	2200	ug/Kg	92		4		54	125	20
2-Chlorophenol	2400	0	2200	ug/Kg	92		4		79	107	20
2-Methylphenol	2400	0	2200	ug/Kg	92		4		66	122	20
2,2-oxybis(1-Chloropropane)	2400	0	2000	ug/Kg	83		5		65	110	20
Acetophenone	2400	0	2400	ug/Kg	100		8		75	111	20
3+4-Methylphenols	2400	0	2200	ug/Kg	92		0		66	104	20
N-Nitroso-di-n-propylamine	2400	0	2100	ug/Kg	88		6		59	119	20
Hexachloroethane	2400	0	2200	ug/Kg	92		4		65	117	20
Nitrobenzene	2400	0	2100	ug/Kg	88		6		70	119	20
Isophorone	2400	0	2200	ug/Kg	92		0		76	122	20
2-Nitrophenol	2400	0	2200	ug/Kg	92		0		54	145	20
2,4-Dimethylphenol	2400	0	2800	ug/Kg	117		3		44	135	20
bis(2-Chloroethoxy)methane	2400	0	2200	ug/Kg	92		4		68	112	20
2,4-Dichlorophenol	2400	0	2100	ug/Kg	88		0		72	118	20
Naphthalene	2400	0	2100	ug/Kg	88		6		72	110	20
4-Chloroaniline	2400	0	940	ug/Kg	39		11		10	91	20
Hexachlorobutadiene	2400	0	2200	ug/Kg	92		4		66	114	20
Caprolactam	2400	0	2200	ug/Kg	92		0		51	134	20
4-Chloro-3-methylphenol	2400	0	2000	ug/Kg	83		0		57	132	20
2-Methylnaphthalene	2400	0	2000	ug/Kg	83		0		59	123	20
Hexachlorocyclopentadiene	4700	0	6400	ug/Kg	136		3		10	175	20
2,4,6-Trichlorophenol	2400	0	2100	ug/Kg	88		6		72	117	20
2,4,5-Trichlorophenol	2400	0	2000	ug/Kg	83		0		72	117	20
1,1-Biphenyl	2400	0	2400	ug/Kg	100		4		75	113	20
2-Chloronaphthalene	2400	0	2200	ug/Kg	92		4		67	118	20
2-Nitroaniline	2400	0	2100	ug/Kg	88		6		69	127	20
Dimethylphthalate	2400	0	2100	ug/Kg	88		0		70	113	20
Acenaphthylene	2400	0	2200	ug/Kg	92		0		79	118	20
2,6-Dinitrotoluene	2400	0	2100	ug/Kg	88		0		70	125	20
3-Nitroaniline	2400	0	1200	ug/Kg	50		8		30	99	20
Acenaphthene	2400	0	2100	ug/Kg	88		6		70	121	20
2,4-Dinitrophenol	4700	0	2900	ug/Kg	62		3		10	155	20
4-Nitrophenol	4700	0	3500	ug/Kg	74		7		45	133	20
Dibenzofuran	2400	0	2000	ug/Kg	83		0		72	110	20
2,4-Dinitrotoluene	2400	0	2100	ug/Kg	88		0		55	128	20
Diethylphthalate	2400	0	2000	ug/Kg	83		0		70	112	20
4-Chlorophenyl-phenylether	2400	0	2100	ug/Kg	88		0		71	108	20
Fluorene	2400	0	2100	ug/Kg	88		0		68	116	20
4-Nitroaniline	2400	0	2000	ug/Kg	83		0		55	120	20
4,6-Dinitro-2-methylphenol	2400	0	1800	ug/Kg	75		0		10	160	20
N-Nitrosodiphenylamine	2400	0	2300	ug/Kg	96		4		73	118	20
4-Bromophenyl-phenylether	2400	0	2300	ug/Kg	96		4		65	121	20
Hexachlorobenzene	2400	0	2400	ug/Kg	100		8		67	118	20
Atrazine	2400	0	2800	ug/Kg	117		3		79	127	20

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4700	0	3400	ug/Kg	72		6		47	128	20
Phenanthrene	2400	0	2200	ug/Kg	92		4		52	128	20
Anthracene	2400	0	2300	ug/Kg	96		4		62	124	20
Carbazole	2400	0	2200	ug/Kg	92		4		59	119	20
Di-n-butylphthalate	2400	0	2200	ug/Kg	92		4		69	118	20
Fluoranthene	2400	0	2100	ug/Kg	88		6		44	125	20
Pyrene	2400	0	2100	ug/Kg	88		4		26	142	20
Butylbenzylphthalate	2400	0	2300	ug/Kg	96		0		64	126	20
3,3-Dichlorobenzidine	2400	0	1900	ug/Kg	79		11		33	116	20
Benzo(a)anthracene	2400	0	2300	ug/Kg	96		4		71	114	20
Chrysene	2400	0	2100	ug/Kg	88		0		57	121	20
bis(2-Ethylhexyl)phthalate	2400	0	2700	ug/Kg	113		5		42	169	20
Di-n-octyl phthalate	2400	0	3200	ug/Kg	133		13		23	175	20
Benzo(b)fluoranthene	2400	0	1900	ug/Kg	79		11		67	121	20
Benzo(k)fluoranthene	2400	0	2200	ug/Kg	92		15		57	134	20
Benzo(a)pyrene	2400	0	2300	ug/Kg	96		4		70	142	20
Indeno(1,2,3-cd)pyrene	2400	0	2500	ug/Kg	104		4		40	129	20
Dibenz(a,h)anthracene	2400	0	2500	ug/Kg	104		4		43	123	20
Benzo(g,h,i)perylene	2400	0	2300	ug/Kg	96		4		24	125	20
1,2,4,5-Tetrachlorobenzene	2400	0	2400	ug/Kg	100		4		69	124	20
1,4-Dioxane	2400	0	2200	ug/Kg	92		4		46	112	20
2,3,4,6-Tetrachlorophenol	2400	0	2000	ug/Kg	83		0		69	112	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.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: 8270E **DataFile:** BF141777.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166853BS	Benzaldehyde	1700	950	ug/Kg	56				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	2-Methylphenol	1700	1500	ug/Kg	88				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1300	ug/Kg	76				51	100	
	Acetophenone	1700	1600	ug/Kg	94				66	98	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				63	95	
	Hexachloroethane	1700	1500	ug/Kg	88				72	108	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1500	ug/Kg	88				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1900	ug/Kg	112				46	141	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				66	97	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	740	ug/Kg	44				16	100	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				53	98	
	Caprolactam	1700	1700	ug/Kg	100				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	4300	ug/Kg	130				45	165	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1600	ug/Kg	94				57	103	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				58	99	
	2-Nitroaniline	1700	1400	ug/Kg	82				66	101	
	Dimethylphthalate	1700	1600	ug/Kg	94				61	99	
	Acenaphthylene	1700	1600	ug/Kg	94				63	101	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				61	104	
	3-Nitroaniline	1700	910	ug/Kg	54				28	100	
	Acenaphthene	1700	1400	ug/Kg	82				57	104	
	2,4-Dinitrophenol	3300	3000	ug/Kg	91				37	128	
	4-Nitrophenol	3300	2600	ug/Kg	79				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				58	98	
	Fluorene	1700	1500	ug/Kg	88				61	101	
	4-Nitroaniline	1700	1500	ug/Kg	88				64	103	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				76	113	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				71	99	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				66	102	

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.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: 8270E **DataFile:** BF141777.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166853BS	Hexachlorobenzene	1700	1600	ug/Kg	94				64	98	
	Atrazine	1700	2000	ug/Kg	118				47	152	
	Pentachlorophenol	3300	2400	ug/Kg	73				67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1600	ug/Kg	94				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1700	ug/Kg	100				59	103	
	Butylbenzylphthalate	1700	1800	ug/Kg	106		*		55	103	
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65				42	91	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				60	102	
	Chrysene	1700	1600	ug/Kg	94				59	101	
	bis(2-Ethylhexyl)phthalate	1700	2100	ug/Kg	124				54	135	
	Di-n-octyl phthalate	1700	2100	ug/Kg	124				52	137	
	Benzo(b)fluoranthene	1700	1300	ug/Kg	76				62	109	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				62	109	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				63	101	
	Dibenz(a,h)anthracene	1700	1700	ug/Kg	100				61	112	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1700	ug/Kg	100				53	101	
	1,4-Dioxane	1700	1400	ug/Kg	82				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				59	108	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166853BL

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Lab File ID: BF141776.D Lab Sample ID: PB166853BL

Instrument ID: BNA_F Date Extracted: 02/25/2025

Matrix: (soil/water) SOIL Date Analyzed: 02/26/2025

Level: (low/med) LOW Time Analyzed: 11:49

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166853BS	PB166853BS	BF141777.D	02/26/2025
P001-CLAY-CF01-01	Q1421-01	BF141761.D	02/25/2025
P001-CLAY-CF01-01MS	Q1421-02MS	BF141762.D	02/25/2025
P001-CLAY-CF01-01MSD	Q1421-03MSD	BF141763.D	02/25/2025
P001-CLAY-CF01-02	Q1421-07	BF141764.D	02/25/2025
P001-CLAY-CF02-01	Q1421-09	BF141765.D	02/25/2025

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: ROYF02

Lab Code: CHEM SAS No.: Q1421 SDG NO.: Q1421

Lab File ID: BF141471.D DFTPP Injection Date: 02/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:41

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	0.7 (1.9) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.1
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	6.8
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
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 (18.9) 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	BF141472.D	02/06/2025	11:07
SSTDICC005	SSTDICC005	BF141473.D	02/06/2025	11:34
SSTDICC010	SSTDICC010	BF141474.D	02/06/2025	12:00
SSTDICC020	SSTDICC020	BF141475.D	02/06/2025	12:26
SSTDICCC040	SSTDICCC040	BF141476.D	02/06/2025	12:55
SSTDICC050	SSTDICC050	BF141477.D	02/06/2025	13:21
SSTDICC060	SSTDICC060	BF141478.D	02/06/2025	13:47
SSTDICC080	SSTDICC080	BF141479.D	02/06/2025	14:14

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM SAS No.: Q1421 SDG NO.: Q1421

Lab File ID: BF141754.D DFTPP Injection Date: 02/25/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	35.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.7
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	26.7
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.4 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141755.D	02/25/2025	10:34
P001-CLAY-CF01-01	Q1421-01	BF141761.D	02/25/2025	13:37
P001-CLAY-CF01-01MS	Q1421-02MS	BF141762.D	02/25/2025	14:07
P001-CLAY-CF01-01MSD	Q1421-03MSD	BF141763.D	02/25/2025	14:36
P001-CLAY-CF01-02	Q1421-07	BF141764.D	02/25/2025	15:06
P001-CLAY-CF02-01	Q1421-09	BF141765.D	02/25/2025	15:35

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM SAS No.: Q1421 SDG NO.: Q1421

Lab File ID: BF141774.D DFTPP Injection Date: 02/26/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	33.5
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	47.6
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	27.2
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (18.9) 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	BF141775.D	02/26/2025	10:45
PB166853BL	PB166853BL	BF141776.D	02/26/2025	11:49
PB166853BS	PB166853BS	BF141777.D	02/26/2025	12:19

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.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/25/2025

Lab File ID: BF141755.D Time Analyzed: 10:34

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	83876	6.781	333850	8.06	179797	9.82
	UPPER LIMIT	167752	7.281	667700	8.563	359594	10.316
	LOWER LIMIT	41938	6.281	166925	7.563	89898.5	9.316
	EPA SAMPLE NO.						
01	P001-CLAY-CF01-01	70937	6.78	285987	8.06	150521	9.82
02	P001-CLAY-CF01-01MS	88792	6.78	356048	8.06	194554	9.82
03	P001-CLAY-CF01-01MSD	75675	6.78	299933	8.06	161806	9.82
04	P001-CLAY-CF01-02	71356	6.78	280947	8.06	149058	9.82
05	P001-CLAY-CF02-01	69940	6.78	276004	8.06	146596	9.82

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.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/25/2025

Lab File ID: BF141755.D Time Analyzed: 10:34

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	280239	11.304	152344	13.939	167961	15.386
	UPPER LIMIT	560478	11.804	304688	14.439	335922	15.886
	LOWER LIMIT	140120	10.804	76172	13.439	83980.5	14.886
	EPA SAMPLE NO.						
01	P001-CLAY-CF01-01	242744	11.30	169101	13.94	177274	15.39
02	P001-CLAY-CF01-01MS	323859	11.30	195463	13.95	188853	15.39
03	P001-CLAY-CF01-01MSD	253973	11.30	171769	13.94	186973	15.39
04	P001-CLAY-CF01-02	236469	11.30	160844	13.94	174752	15.39
05	P001-CLAY-CF02-01	233192	11.30	154690	13.94	165233	15.39

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.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/26/2025

Lab File ID: BF141775.D Time Analyzed: 10:45

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	85384	6.781	345346	8.06	188350	9.82
	UPPER LIMIT	170768	7.281	690692	8.563	376700	10.316
	LOWER LIMIT	42692	6.281	172673	7.563	94175	9.316
	EPA SAMPLE NO.						
01	PB166853BL	81286	6.78	323646	8.06	177621	9.82
02	PB166853BS	81688	6.78	331787	8.06	180365	9.82

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.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/26/2025

Lab File ID: BF141775.D Time Analyzed: 10:45

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	315416	11.304	190171	13.945	189428	15.392
	UPPER LIMIT	630832	11.804	380342	14.445	378856	15.892
	LOWER LIMIT	157708	10.804	95085.5	13.445	94714	14.892
	EPA SAMPLE NO.						
01	PB166853BL	318142	11.30	217249	13.94	172479	15.39
02	PB166853BS	319305	11.30	191917	13.95	177241	15.39

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

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

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

SAMPLE DATA

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141761.D	1	02/25/25 09:30	02/25/25 13:37	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	260	U	260	470	ug/Kg
108-95-2	Phenol	120	U	120	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	120	U	120	240	ug/Kg
95-57-8	2-Chlorophenol	120	U	120	240	ug/Kg
95-48-7	2-Methylphenol	110	U	110	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	130	U	130	240	ug/Kg
98-86-2	Acetophenone	120	U	120	240	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	470	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.3	U	57.3	110	ug/Kg
67-72-1	Hexachloroethane	120	U	120	240	ug/Kg
98-95-3	Nitrobenzene	130	U	130	240	ug/Kg
78-59-1	Isophorone	120	U	120	240	ug/Kg
88-75-5	2-Nitrophenol	130	U	130	240	ug/Kg
105-67-9	2,4-Dimethylphenol	130	U	130	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	120	U	120	240	ug/Kg
120-83-2	2,4-Dichlorophenol	110	U	110	240	ug/Kg
91-20-3	Naphthalene	120	U	120	240	ug/Kg
106-47-8	4-Chloroaniline	120	U	120	240	ug/Kg
87-68-3	Hexachlorobutadiene	120	U	120	240	ug/Kg
105-60-2	Caprolactam	120	U	120	470	ug/Kg
59-50-7	4-Chloro-3-methylphenol	110	U	110	240	ug/Kg
91-57-6	2-Methylnaphthalene	120	U	120	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	220	U	220	470	ug/Kg
88-06-2	2,4,6-Trichlorophenol	100	U	100	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	110	U	110	240	ug/Kg
92-52-4	1,1-Biphenyl	120	U	120	240	ug/Kg
91-58-7	2-Chloronaphthalene	120	U	120	240	ug/Kg
88-74-4	2-Nitroaniline	140	U	140	240	ug/Kg
131-11-3	Dimethylphthalate	120	U	120	240	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141761.D	1	02/25/25 09:30	02/25/25 13:37	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	120	U	120	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	120	U	120	240	ug/Kg
99-09-2	3-Nitroaniline	130	U	130	240	ug/Kg
83-32-9	Acenaphthene	120	U	120	240	ug/Kg
51-28-5	2,4-Dinitrophenol	350	U	350	470	ug/Kg
100-02-7	4-Nitrophenol	160	U	160	470	ug/Kg
132-64-9	Dibenzofuran	120	U	120	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	120	U	120	240	ug/Kg
84-66-2	Diethylphthalate	110	U	110	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	120	U	120	240	ug/Kg
86-73-7	Fluorene	120	U	120	240	ug/Kg
100-01-6	4-Nitroaniline	150	U	150	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	170	U	170	470	ug/Kg
86-30-6	n-Nitrosodiphenylamine	120	U	120	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	240	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	240	ug/Kg
1912-24-9	Atrazine	130	U	130	240	ug/Kg
87-86-5	Pentachlorophenol	110	U	110	470	ug/Kg
85-01-8	Phenanthrene	120	U	120	240	ug/Kg
120-12-7	Anthracene	120	U	120	240	ug/Kg
86-74-8	Carbazole	110	U	110	240	ug/Kg
84-74-2	Di-n-butylphthalate	120	U	120	240	ug/Kg
206-44-0	Fluoranthene	120	U	120	240	ug/Kg
129-00-0	Pyrene	120	U	120	240	ug/Kg
85-68-7	Butylbenzylphthalate	140	UQ	140	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	140	U	140	470	ug/Kg
56-55-3	Benzo(a)anthracene	110	U	110	240	ug/Kg
218-01-9	Chrysene	110	U	110	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	130	240	ug/Kg
117-84-0	Di-n-octyl phthalate	160	U	160	470	ug/Kg
205-99-2	Benzo(b)fluoranthene	120	U	120	240	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141761.D	1	02/25/25 09:30	02/25/25 13:37	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	120	U	120	240	ug/Kg
50-32-8	Benzo(a)pyrene	130	U	130	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	120	U	120	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	U	110	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	120	U	120	240	ug/Kg
123-91-1	1,4-Dioxane	160	U	160	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	110	U	110	240	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	106		18 - 112	71%	SPK: 150
13127-88-3	Phenol-d6	105		15 - 107	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	69.1		18 - 107	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.2		20 - 109	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	89.1		10 - 116	59%	SPK: 150
1718-51-0	Terphenyl-d14	67.7		10 - 105	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	70900	6.781			
1146-65-2	Naphthalene-d8	286000	8.063			
15067-26-2	Acenaphthene-d10	151000	9.816			
1517-22-2	Phenanthrene-d10	243000	11.298			
1719-03-5	Chrysene-d12	169000	13.939			
1520-96-3	Perylene-d12	177000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	150	A		4.99	ug/Kg
000119-61-9	Benzophenone	420	J		10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	2000	J		11.8	ug/Kg
000630-04-6	Hentriacontane	210	J		12.3	ug/Kg
058594-45-9	13-Octadecenal, (Z)-	110	J		12.5	ug/Kg
000057-11-4	Octadecanoic acid	730	J		12.6	ug/Kg
006422-86-2	1,4-Benzenedicarboxylic acid, bis(	640	J		12.8	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141761.D	1	02/25/25 09:30	02/25/25 13:37	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000593-49-7	Heptacosane	240	J		13.2	ug/Kg
074339-54-1	Trichloroacetic acid, hexadecyl es	220	J		13.8	ug/Kg
000544-77-4	Hexadecane, 1-iodo-	320	J		13.9	ug/Kg
007225-64-1	Heptadecane, 9-octyl-	400	J		14.4	ug/Kg
000112-95-8	Eicosane	210	J		14.7	ug/Kg
000638-68-6	Triacontane	190	J		14.9	ug/Kg
000646-31-1	Tetracosane	120	J		15.0	ug/Kg

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\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Time: Feb 25 13:58:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

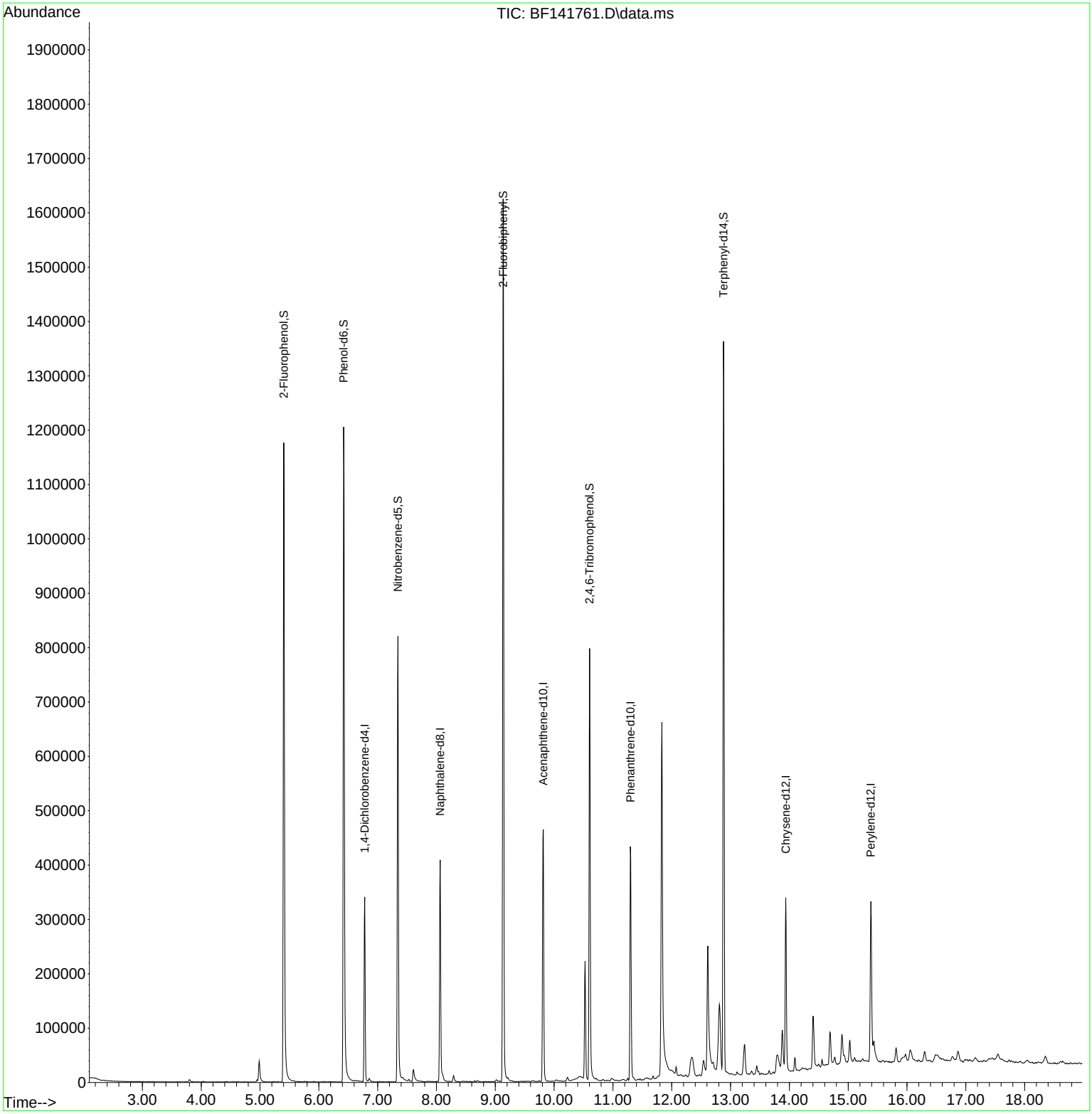
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	70937	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	285987	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	150521	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	242744	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	169101	20.000	ng	-0.02
86) Perylene-d12	15.386	264	177274	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	481576	106.431	ng	0.00
7) Phenol-d6	6.422	99	601806	105.230	ng	-0.02
23) Nitrobenzene-d5	7.345	82	378736	69.074	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	134680	89.071	ng	-0.02
45) 2-Fluorobiphenyl	9.133	172	734402	75.169	ng	-0.02
79) Terphenyl-d14	12.880	244	677916	67.678	ng	-0.02
Target Compounds						Qvalue

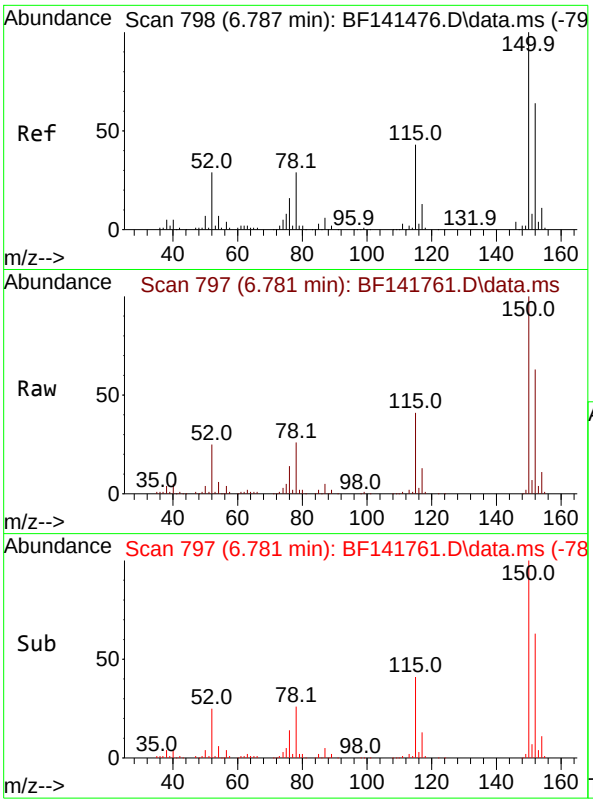
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Time: Feb 25 13:58:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



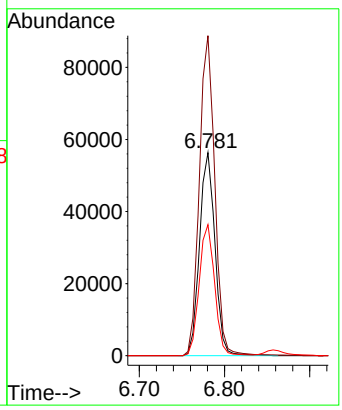


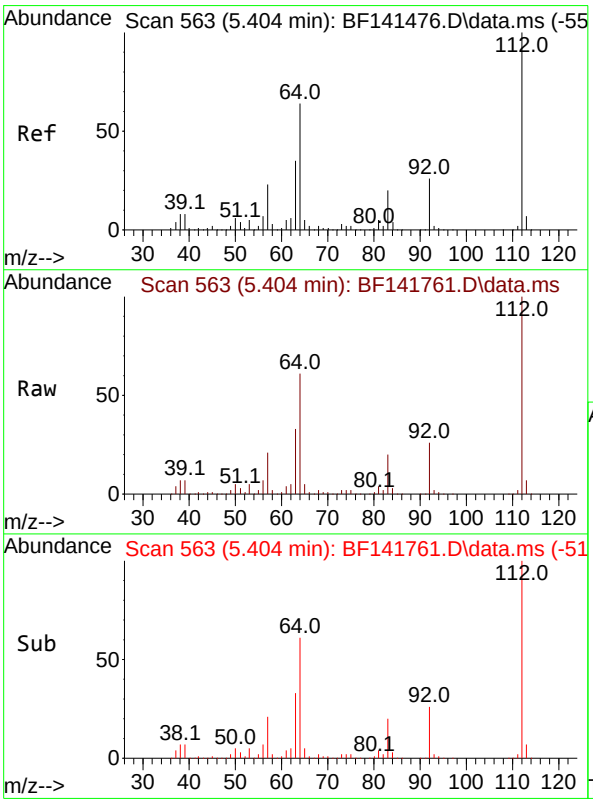
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion:152 Resp: 70937

Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.0	187.4
115	64.5	53.6	80.4

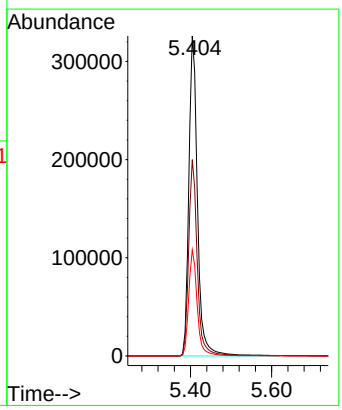


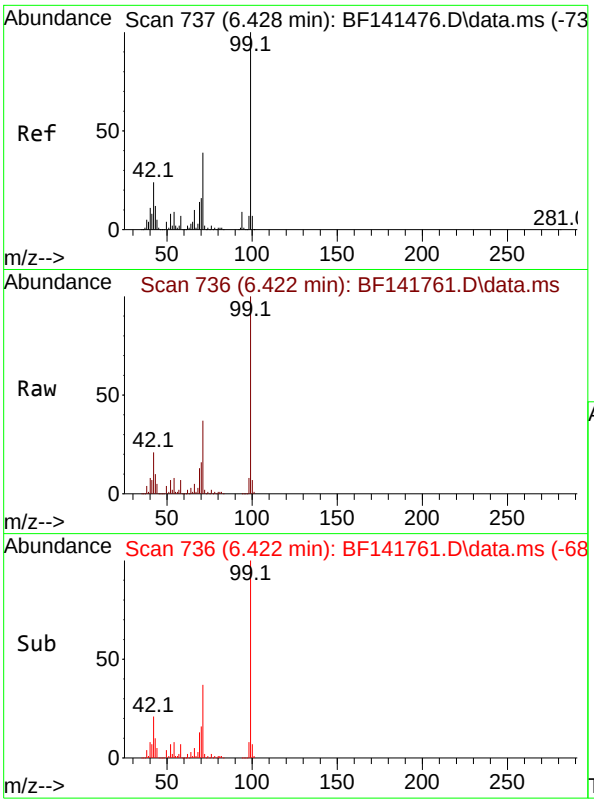


#5
2-Fluorophenol
Concen: 106.431 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Tgt Ion:112 Resp: 481576

Ion	Ratio	Lower	Upper
112	100		
64	61.4	51.1	76.7
63	33.2	28.4	42.6



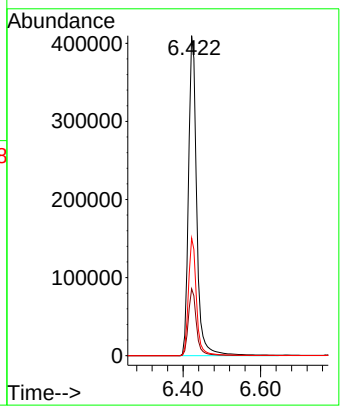


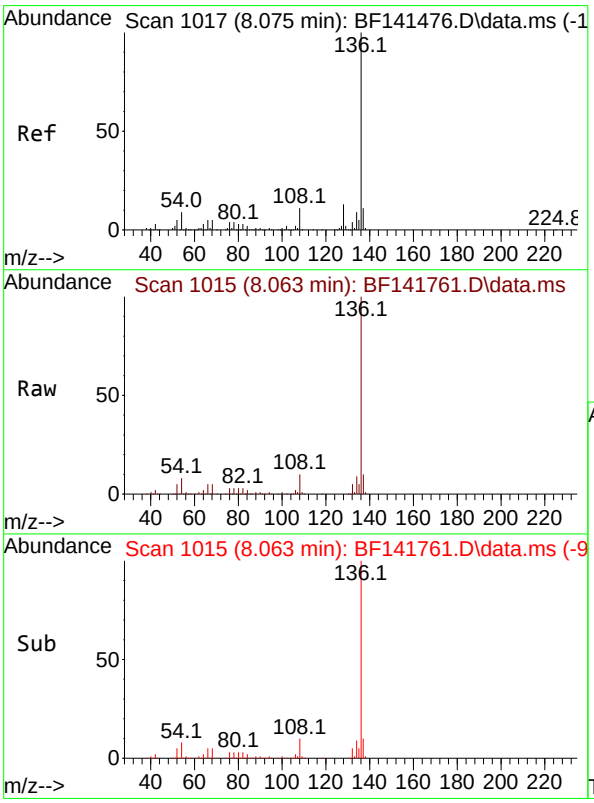
#7
Phenol-d6
Concen: 105.230 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion: 99 Resp: 601806

Ion	Ratio	Lower	Upper
99	100		
42	20.9	19.1	28.7
71	36.8	31.1	46.7

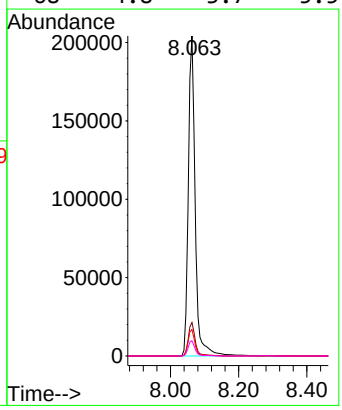


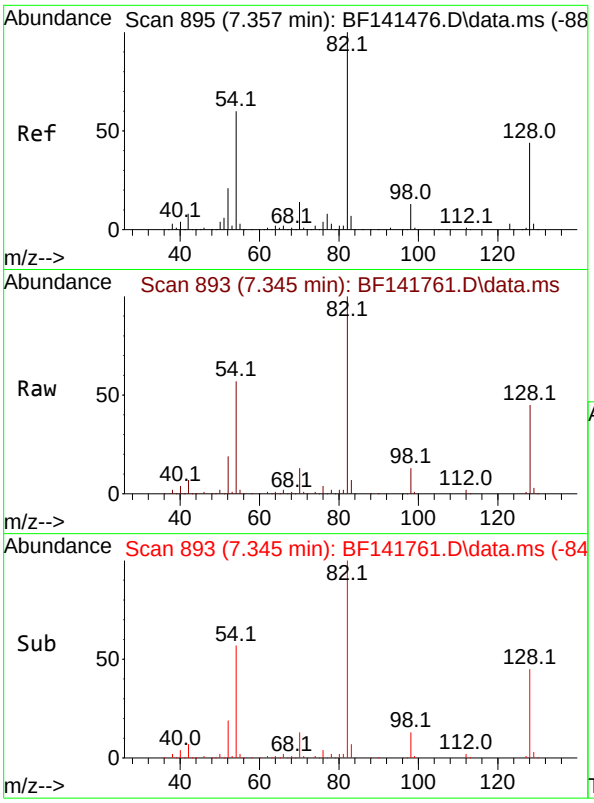


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Tgt Ion:136 Resp: 285987

Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.6	13.0
54	8.2	7.2	10.8
68	4.8	3.7	5.5



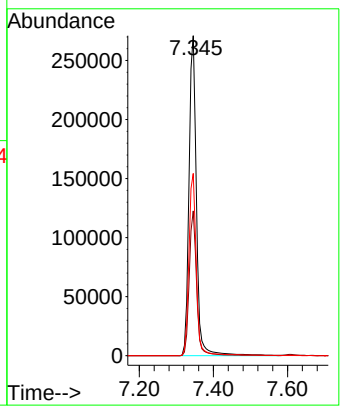


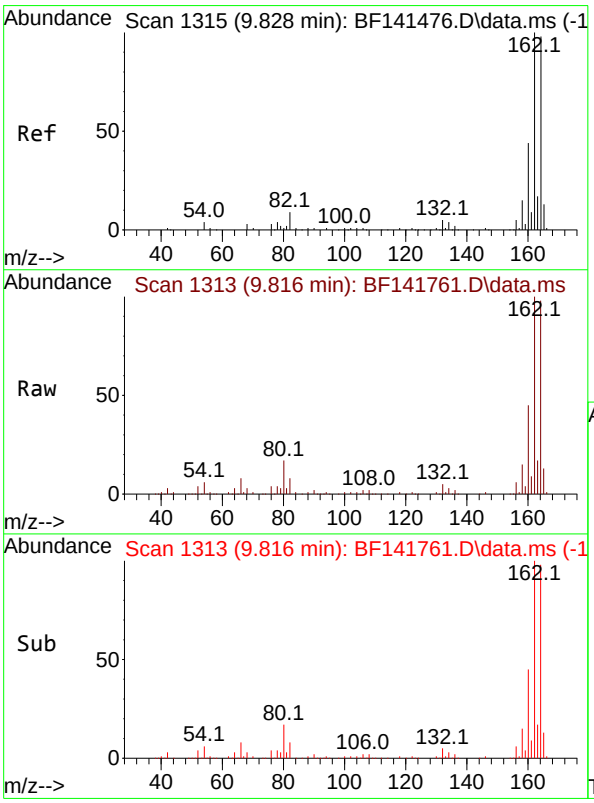
#23
Nitrobenzene-d5
Concen: 69.074 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion: 82 Resp: 378736

Ion	Ratio	Lower	Upper
82	100		
128	45.3	34.8	52.2
54	56.9	48.2	72.4

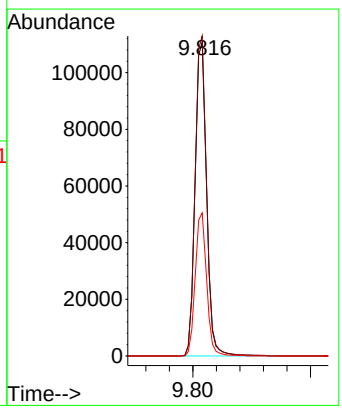


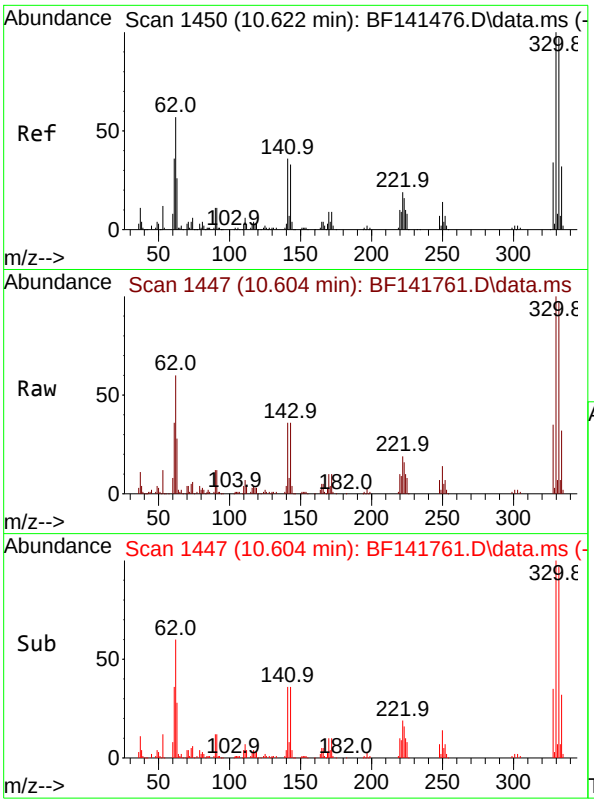


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.018 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Tgt Ion:164 Resp: 150521

Ion	Ratio	Lower	Upper
164	100		
162	102.1	81.3	121.9
160	45.7	35.9	53.9



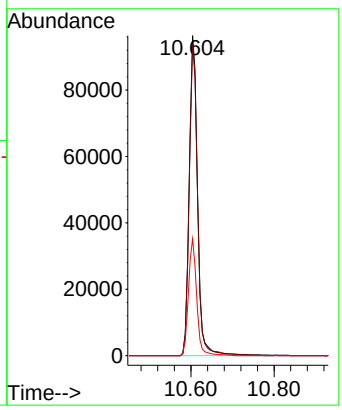


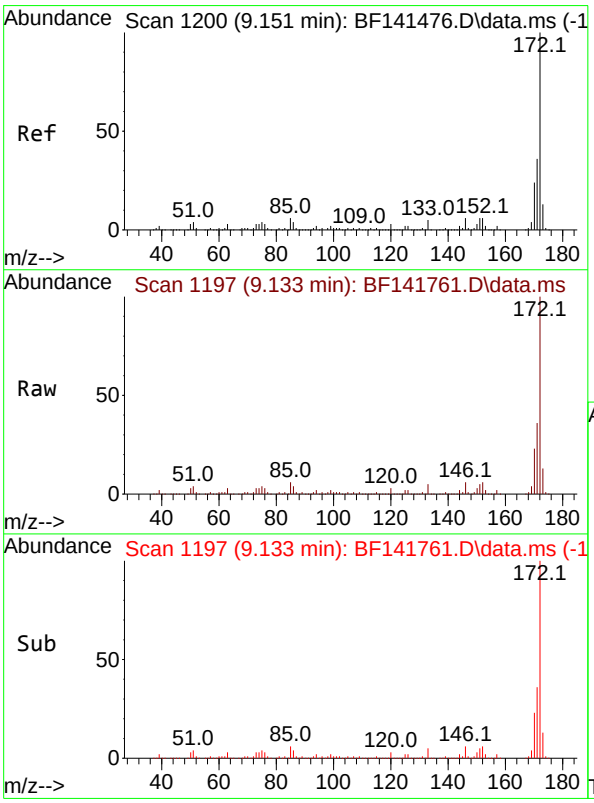
#42
2,4,6-Tribromophenol
Concen: 89.071 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.024 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion:330 Resp: 134680

Ion	Ratio	Lower	Upper
330	100		
332	97.0	78.5	117.7
141	35.9	31.0	46.4

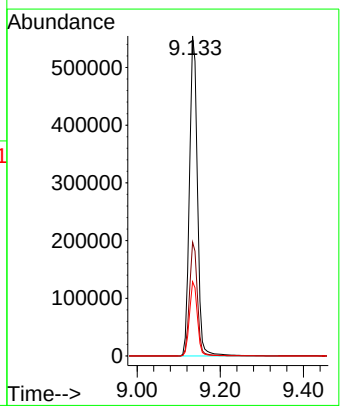


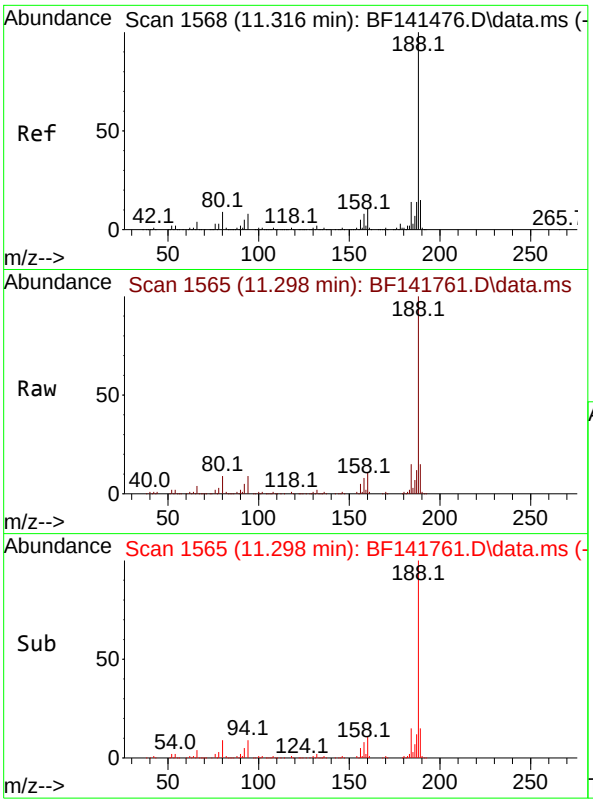


#45
2-Fluorobiphenyl
Concen: 75.169 ng
RT: 9.133 min Scan# 1197
Delta R.T. -0.018 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Tgt Ion:172 Resp: 734402

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.7	43.1
170	23.2	18.9	28.3



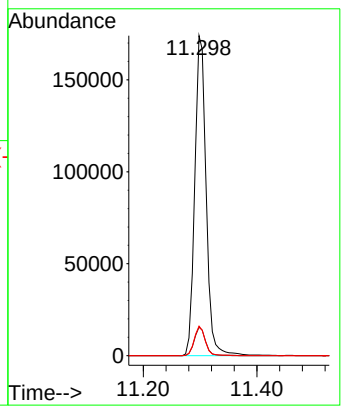


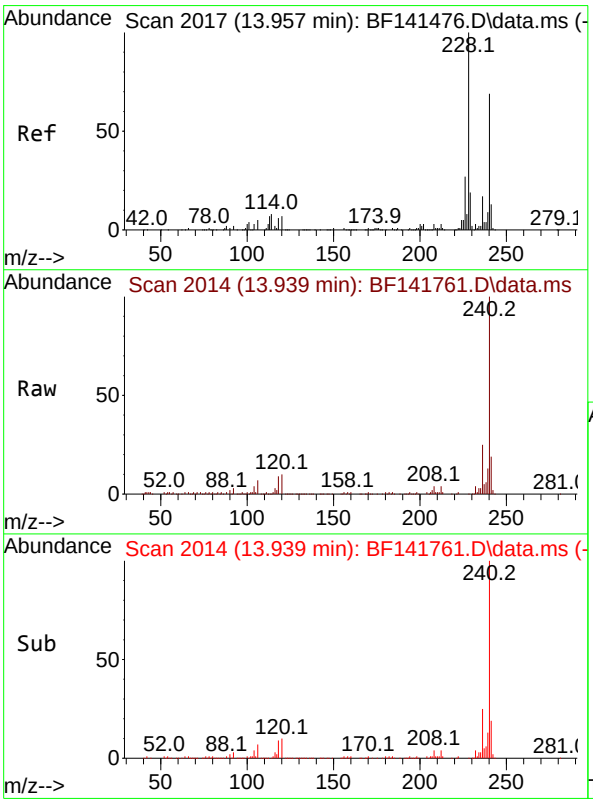
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion:188 Resp: 242744

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.3	7.3	10.9

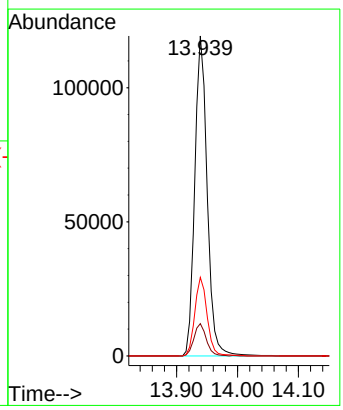


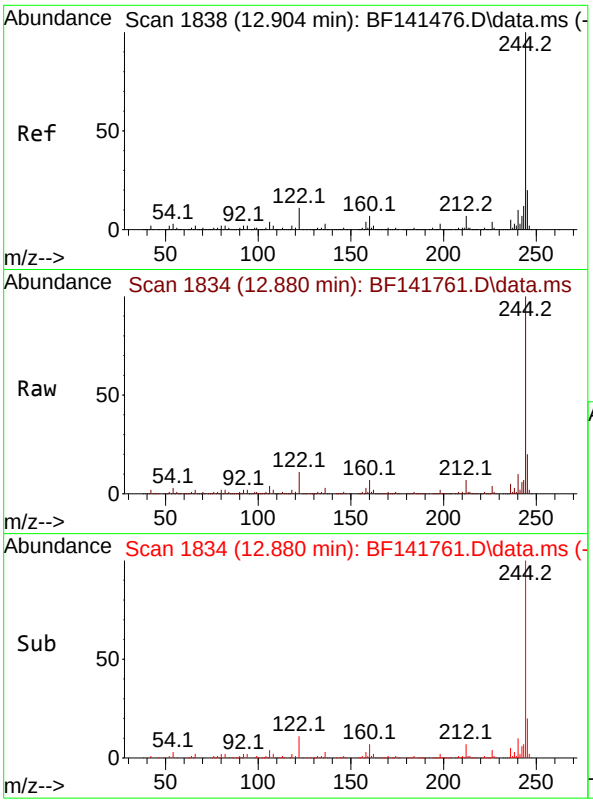


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.024 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Tgt Ion:240 Resp: 169101

Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.0	12.0
236	24.5	19.8	29.8



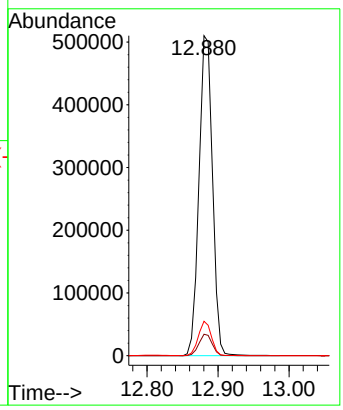


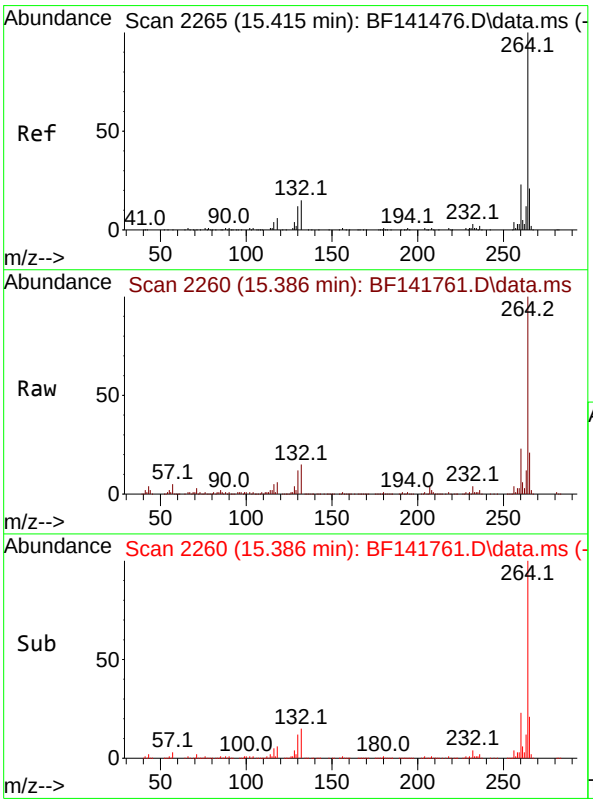
#79
Terphenyl-d14
Concen: 67.678 ng
RT: 12.880 min Scan# 1
Delta R.T. -0.024 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion:244 Resp: 677916

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.8	8.4	12.6

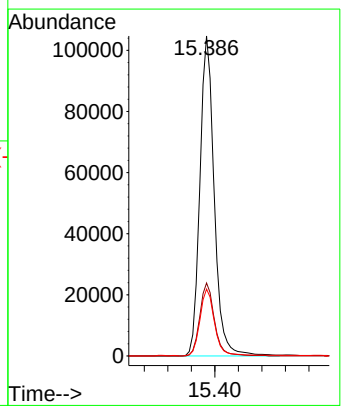




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141761.D
Acq: 25 Feb 2025 13:37

Tgt Ion:264 Resp: 177274

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	20.9	17.0	25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141761.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.987	488	492	510	rVB	38197	66431	3.15%	0.407%
2	5.404	558	563	588	rBV	1176006	1716581	81.35%	10.524%
3	6.422	731	736	765	rBV	1204425	1783529	84.52%	10.934%
4	6.781	792	797	805	rBV	339285	424257	20.10%	2.601%
5	7.345	887	893	904	rBV	819392	1114602	52.82%	6.833%
6	7.604	933	937	951	rBV	21244	46123	2.19%	0.283%
7	8.063	1009	1015	1034	rBV	407651	565496	26.80%	3.467%
8	9.133	1192	1197	1209	rBV	1623877	2110220	100.00%	12.937%
9	9.816	1307	1313	1326	rBV	463314	627750	29.75%	3.848%
10	10.527	1429	1434	1442	rVB	217247	279253	13.23%	1.712%
11	10.604	1442	1447	1461	rBV	792838	1074751	50.93%	6.589%
12	11.298	1560	1565	1580	rBV	430185	596483	28.27%	3.657%
13	11.833	1648	1656	1680	rBV	650947	1253018	59.38%	7.682%
14	12.074	1694	1697	1704	rVB4	16003	21888	1.04%	0.134%
15	12.345	1733	1743	1756	rVB3	34516	129227	6.12%	0.792%
16	12.539	1769	1776	1782	rBV5	28081	71466	3.39%	0.438%
17	12.615	1783	1789	1801	rVV	228286	457712	21.69%	2.806%
18	12.810	1813	1822	1829	rBV	120576	313863	14.87%	1.924%
19	12.880	1829	1834	1840	rVB	1342775	1747980	82.83%	10.716%
20	13.239	1887	1895	1903	rBV	55282	119248	5.65%	0.731%
21	13.798	1983	1990	1998	rBV4	32235	109912	5.21%	0.674%
22	13.880	1998	2004	2009	rVV	77211	154879	7.34%	0.950%
23	13.939	2009	2014	2028	rVB	319717	464226	22.00%	2.846%
24	14.092	2036	2040	2046	rBV	24779	38059	1.80%	0.233%
25	14.404	2087	2093	2106	rBV	97028	194181	9.20%	1.190%
26	14.692	2137	2142	2149	rBV3	58107	110028	5.21%	0.675%
27	14.892	2171	2176	2182	rBV	50321	101942	4.83%	0.625%
28	15.027	2194	2199	2208	rVB	39880	64722	3.07%	0.397%
29	15.386	2254	2260	2266	rBV	294021	507231	24.04%	3.110%
30	15.815	2329	2333	2341	rVB	25614	46575	2.21%	0.286%

Sum of corrected areas: 16311633

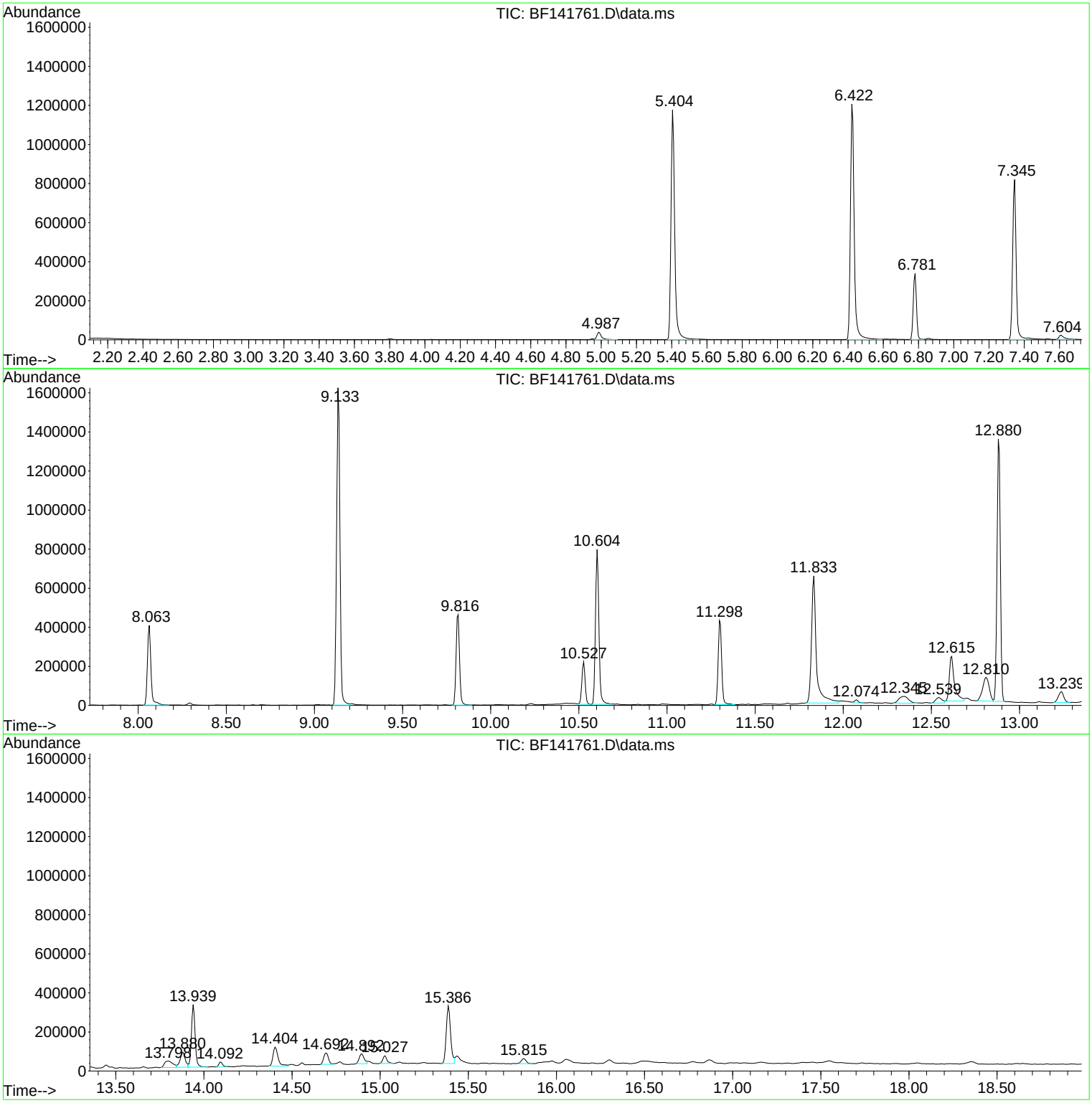
Sample Results: **BF141761.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

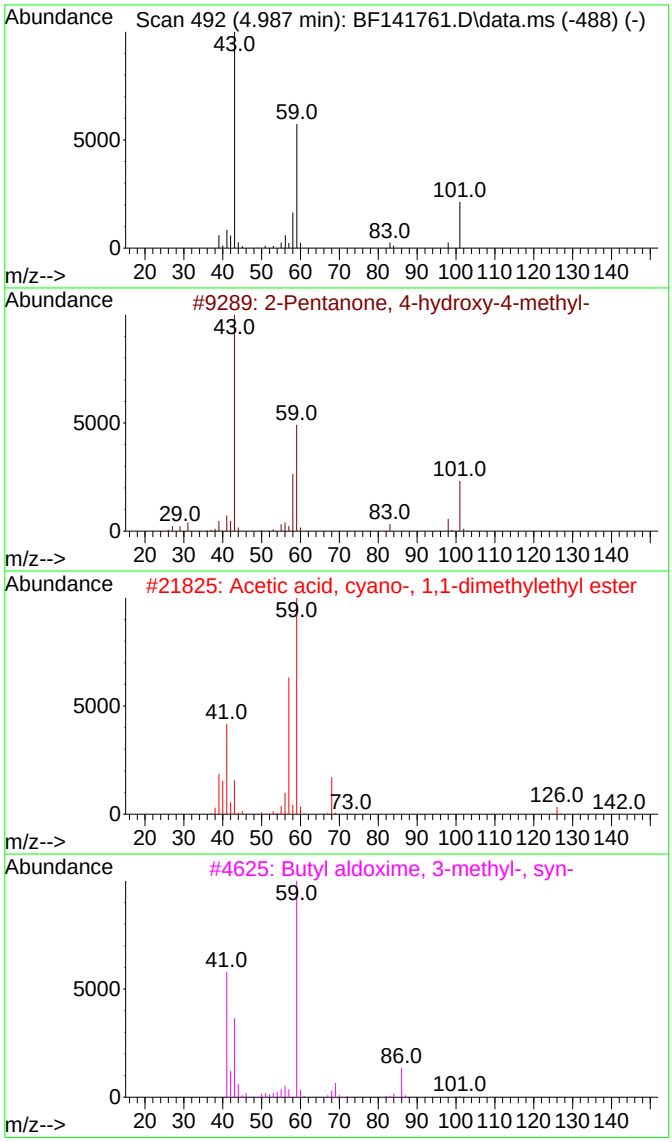
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

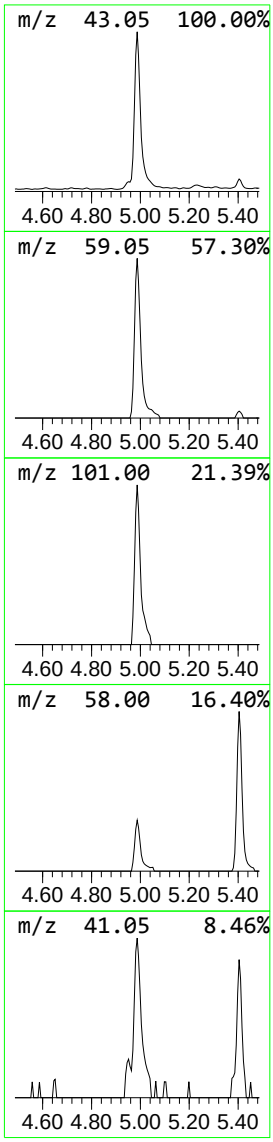
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.987	3.13 ng	66431	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	17
4	Acetone	58	C3H6O	000067-64-1	10
5	Silane, trimethyl-	74	C3H10Si	000993-07-7	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

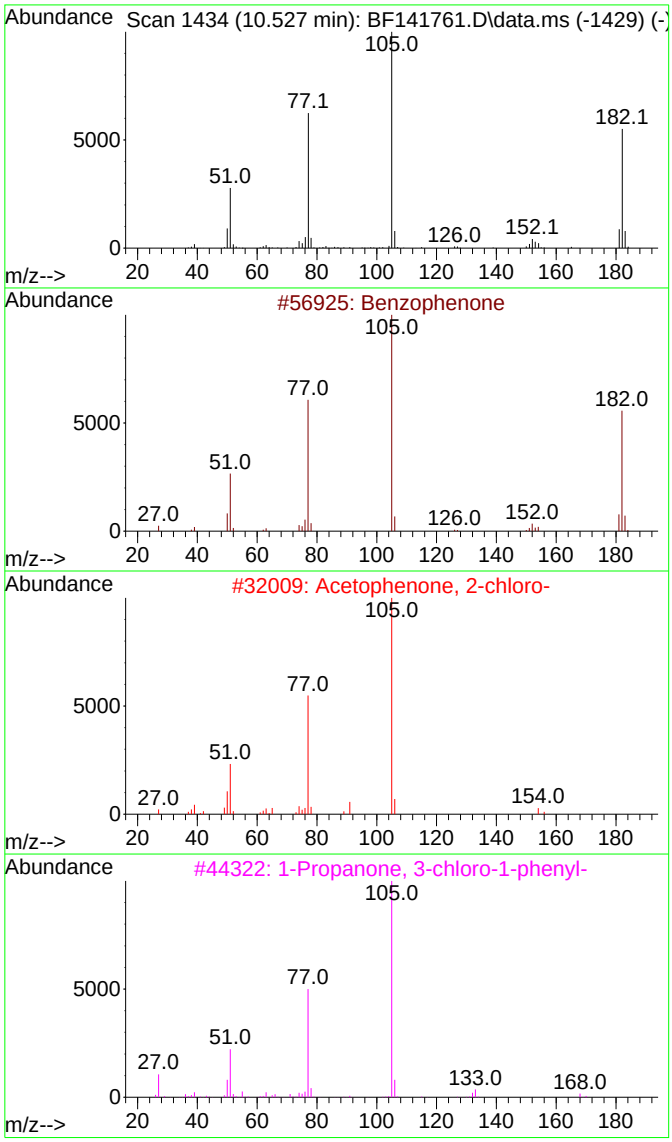
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

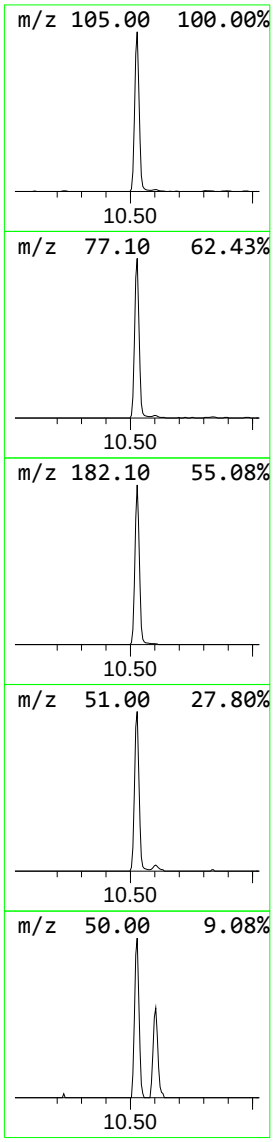
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.527	8.90 ng	279253	Acenaphthene-d10	9.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	52
3	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	50
4	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	50
5	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

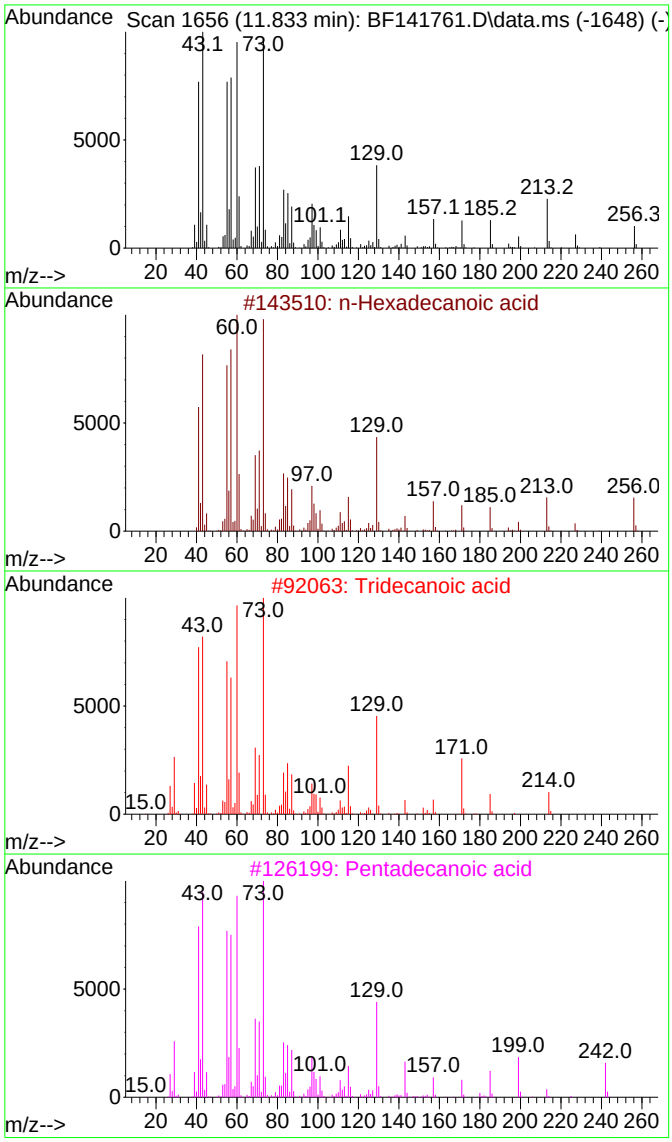
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

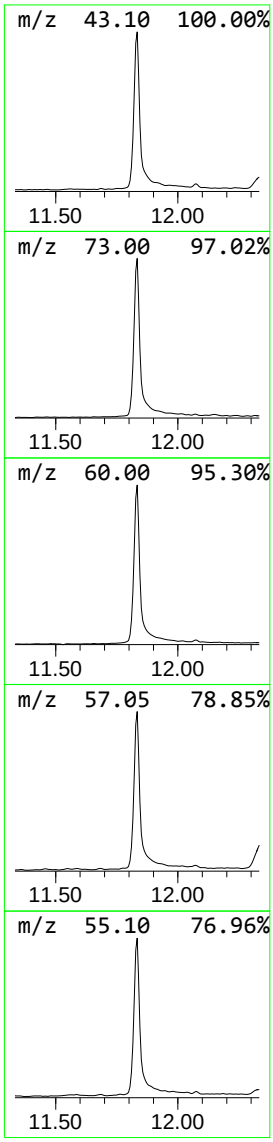
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.833	42.01 ng	1253020	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	n-Decanoic acid	172	C10H20O2	000334-48-5	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

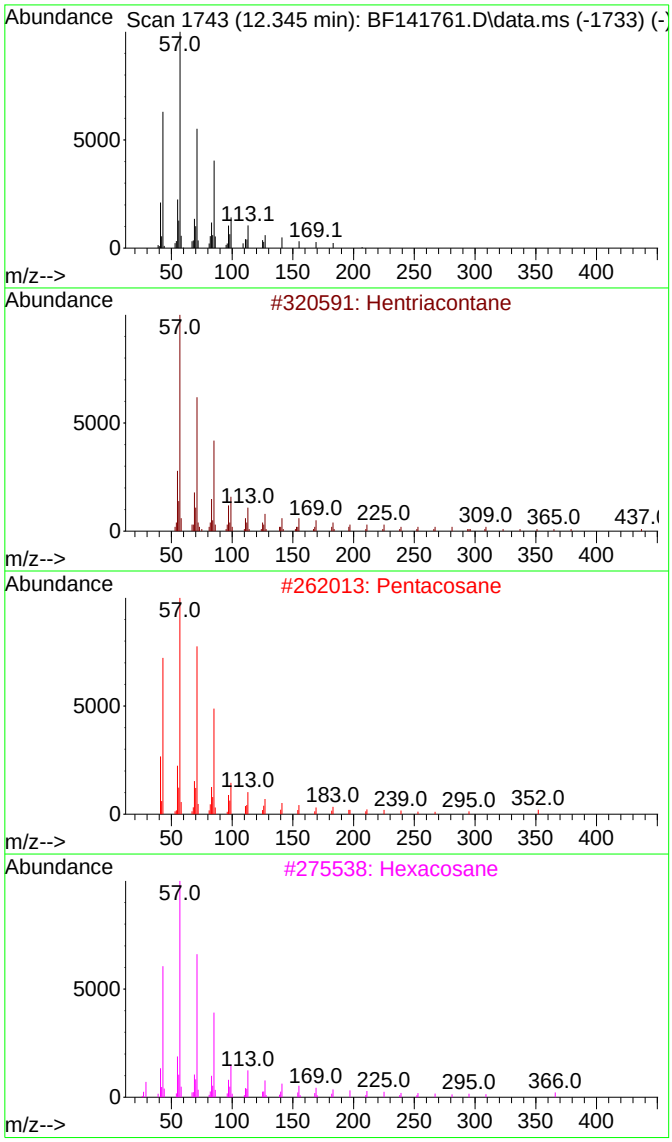
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

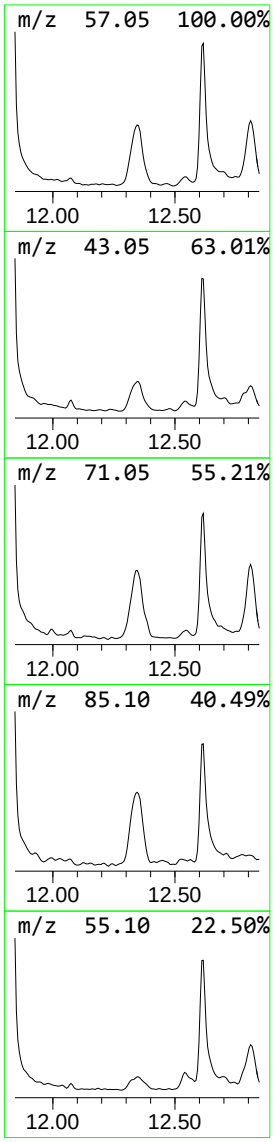
****

Peak Number 4 Hentriacontane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.345	4.33 ng	129227	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hentriacontane	437	C31H64	000630-04-6	91
2	Pentacosane	352	C25H52	000629-99-2	91
3	Hexacosane	366	C26H54	000630-01-3	91
4	Heneicosane	296	C21H44	000629-94-7	91
5	Heptadecane	240	C17H36	000629-78-7	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

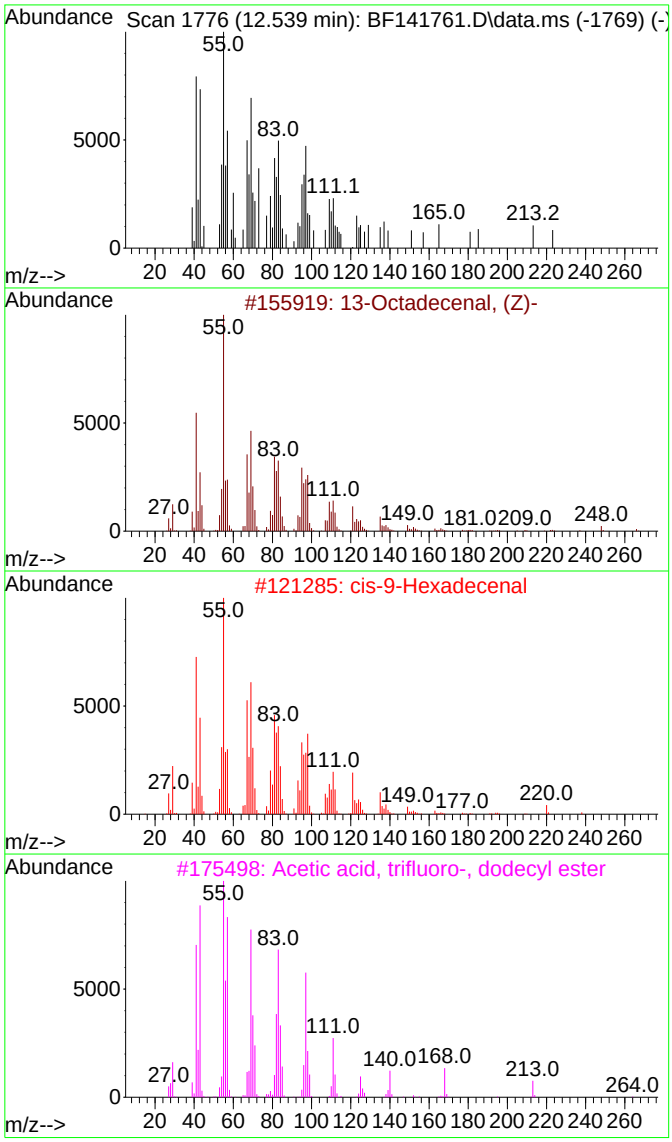
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

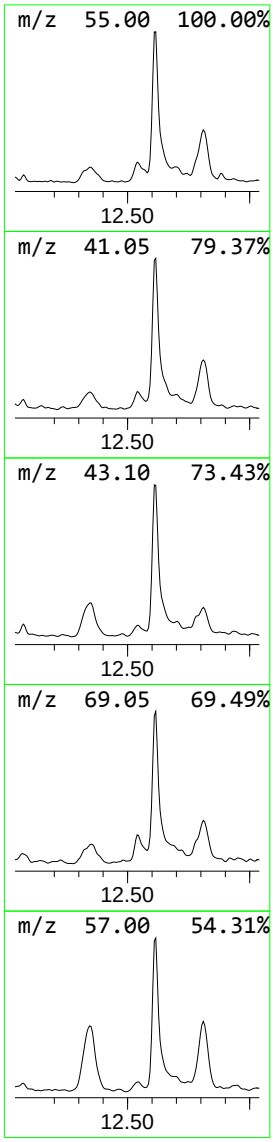
****

Peak Number 5 13-Octadecenal, (Z)- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.539	2.40 ng	71466	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Octadecenal, (Z)-	266	C18H34O	058594-45-9	64
2	cis-9-Hexadecenal	238	C16H30O	056219-04-6	62
3	Acetic acid, trifluoro-, dodecyl...	282	C14H25F3O2	006222-00-0	50
4	8-Oxabicyclo[5.1.0]octane	112	C7H12O	000286-45-3	50
5	13-Tetradecenal	210	C14H26O	085896-31-7	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

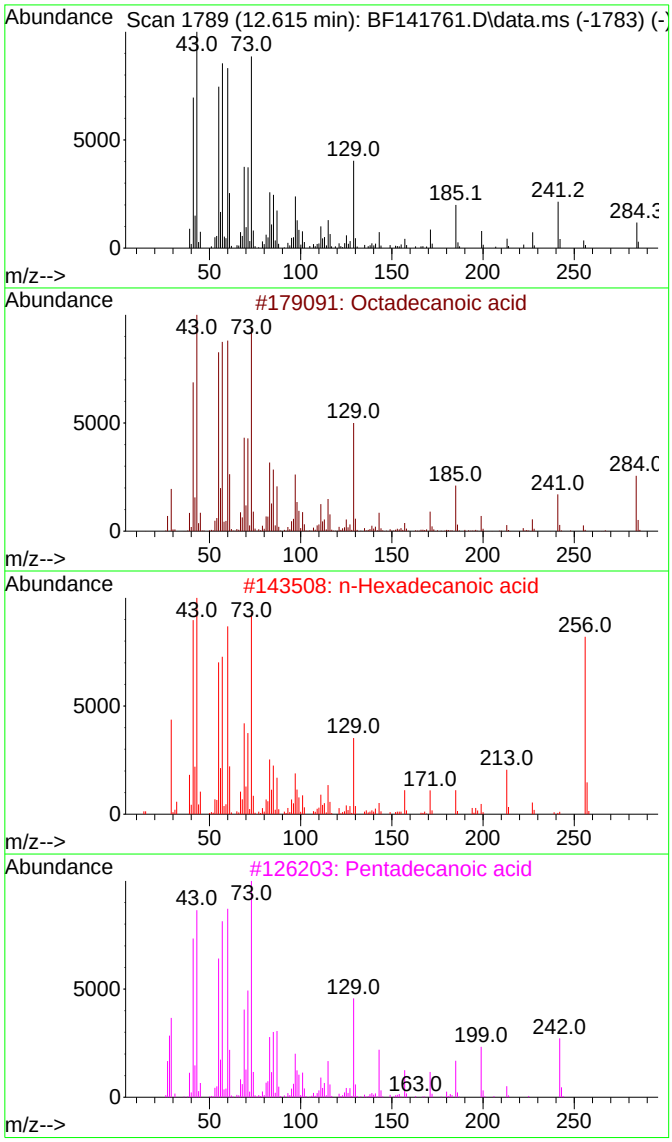
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

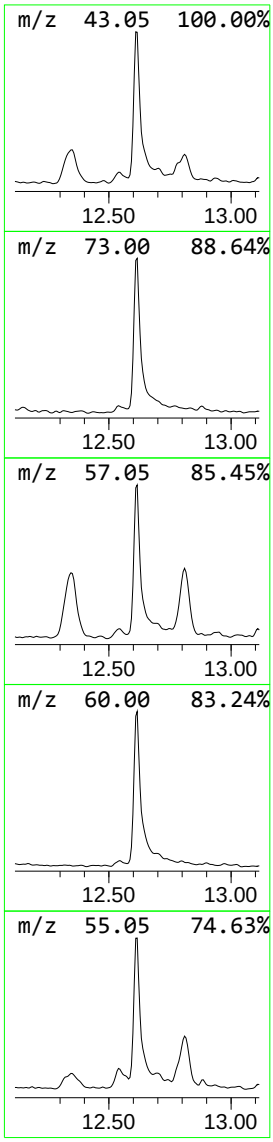
****

Peak Number 6 Octadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.616	15.35 ng	457712	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	89
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4	n-Decanoic acid	172	C10H20O2	000334-48-5	78
5	Tridecanoic acid	214	C13H26O2	000638-53-9	70





```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On    : 25 Feb 2025  13:37
Operator  : RC/JU
Sample    : Q1421-01
Misc      :
ALS Vial  : 8   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

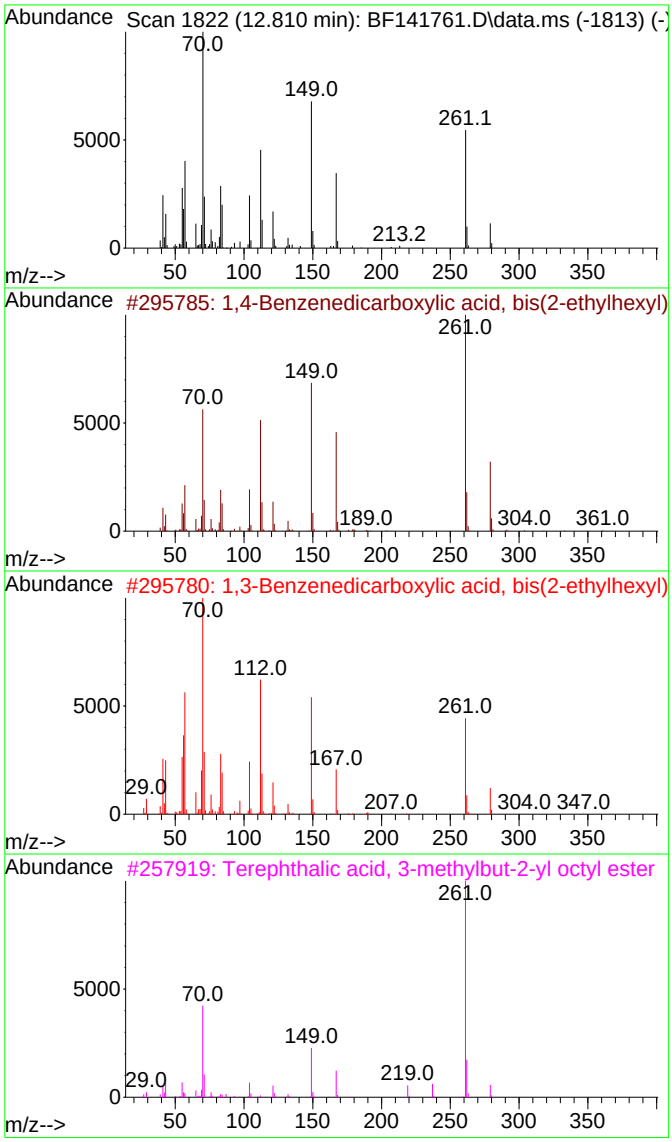
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

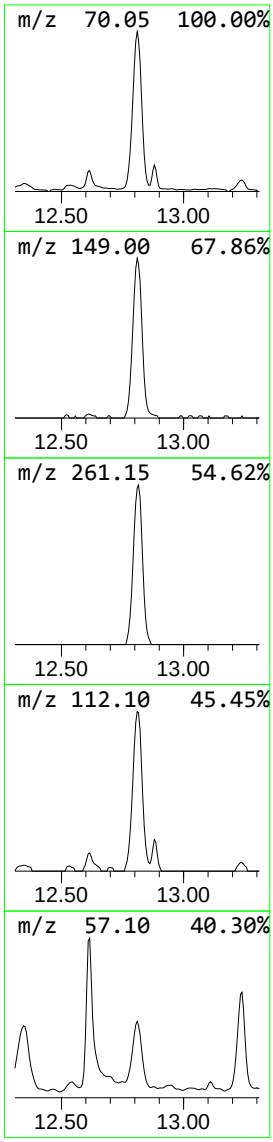
****

Peak Number 7 1,4-Benzenedicarboxylic aci... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.810	13.52 ng	313863	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Benzenedicarboxylic acid, bi...	390	C24H38O4	006422-86-2	74
2	1,3-Benzenedicarboxylic acid, bi...	390	C24H38O4	000137-89-3	64
3	Terephthalic acid, 3-methylbut-2...	348	C21H32O4	1000356-27-6	53
4	Terephthalic acid, monochloride,...	296	C16H21ClO3	1000324-22-9	43
5	Bromoacetic acid, 2-ethylhexyl e...	250	C10H19BrO2	068144-73-0	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

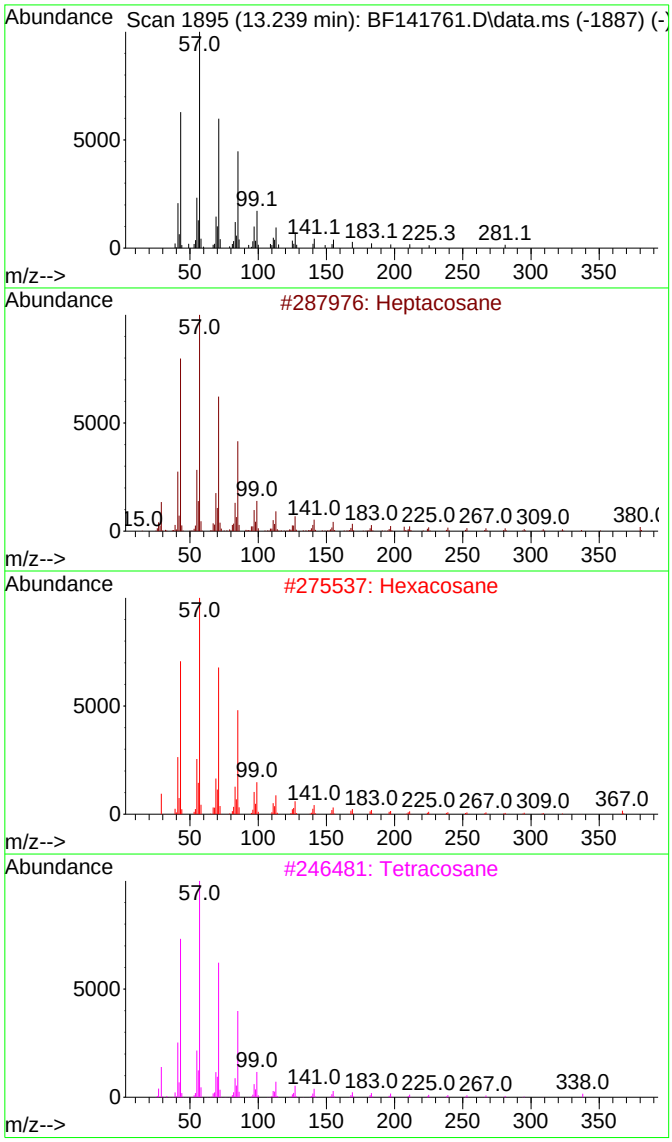
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

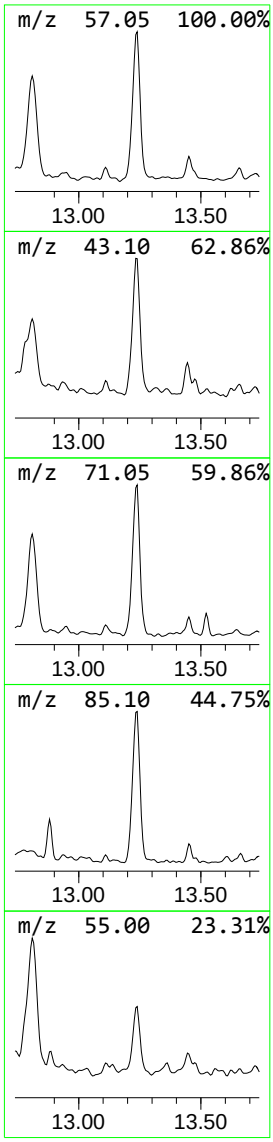
****

Peak Number 8 Heptacosane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.239	5.14 ng	119248	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Hexacosane	366	C26H54	000630-01-3	91
3	Tetracosane	338	C24H50	000646-31-1	91
4	Octacosane	394	C28H58	000630-02-4	91
5	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

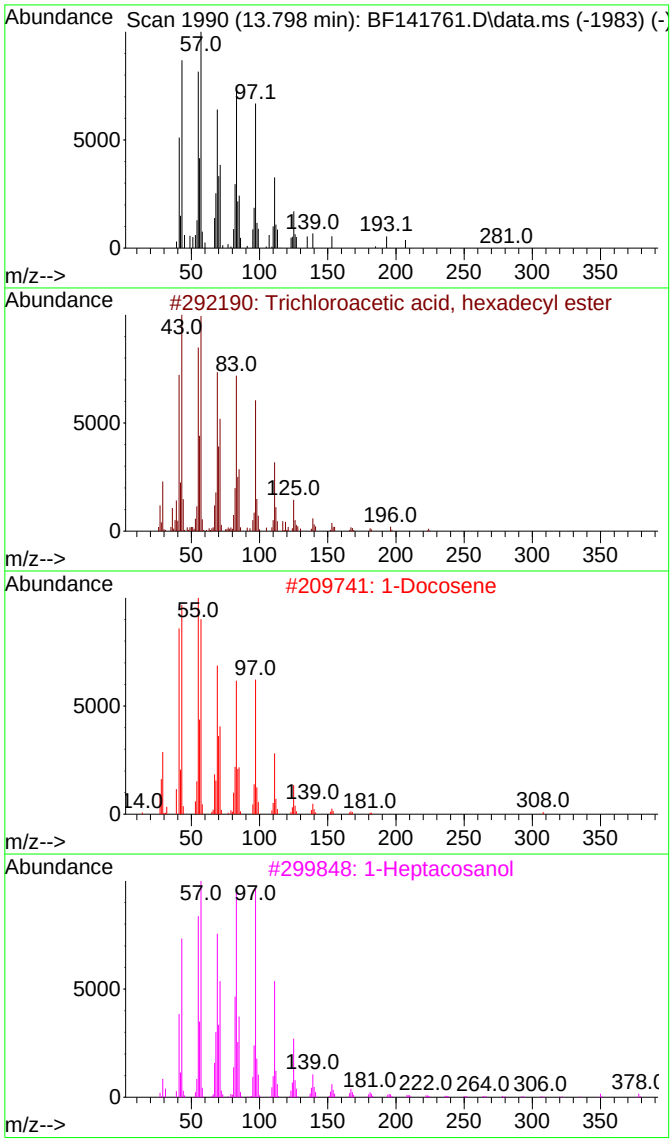
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

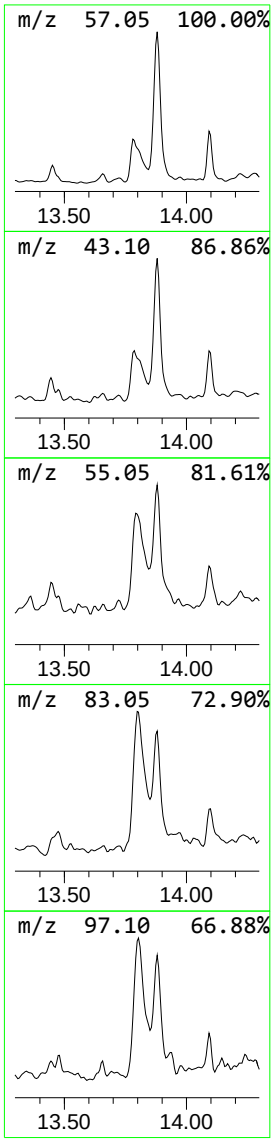
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Trichloroacetic acid, hexad... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.798	4.74 ng	109912	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
2	1-Docosene	308	C22H44	001599-67-3	94
3	1-Heptacosanol	396	C27H56O	002004-39-9	93
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
5	1-Hexacosene	364	C26H52	018835-33-1	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

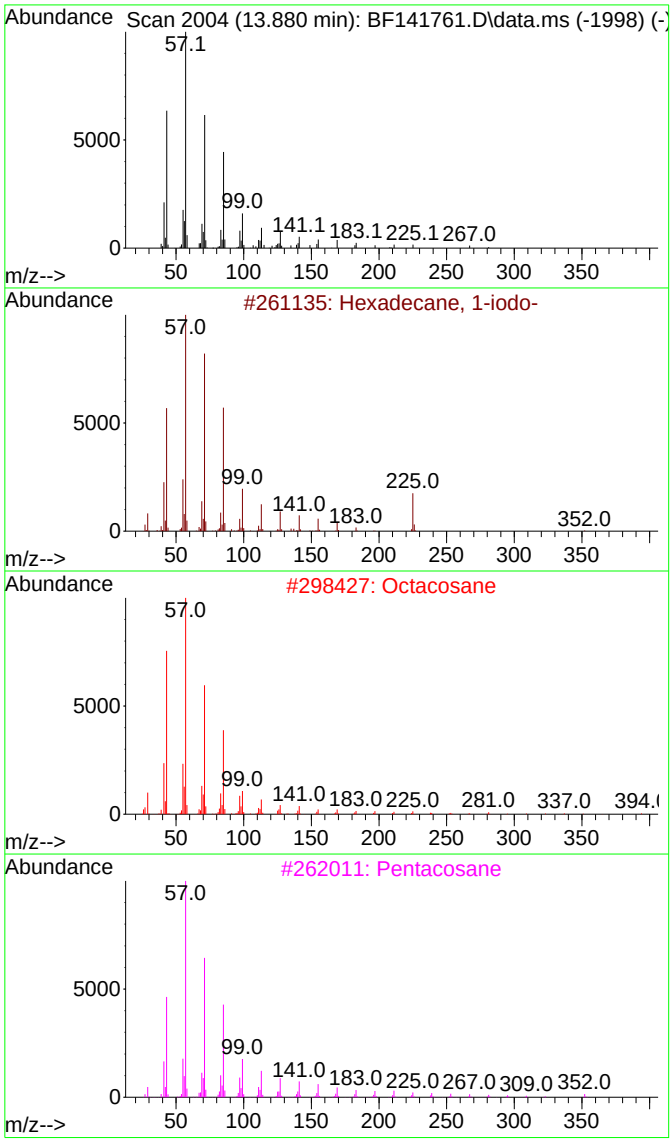
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

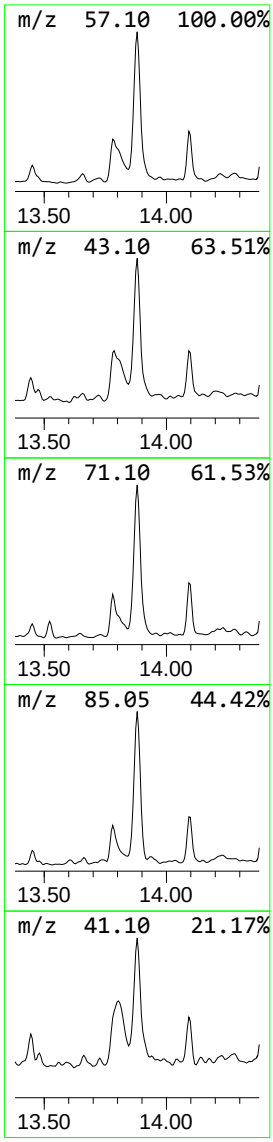
****

Peak Number 10 Hexadecane, 1-iodo- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	6.67 ng	154879	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 1-iodo-	352	C16H33I	000544-77-4	91
2	Octacosane	394	C28H58	000630-02-4	91
3	Pentacosane	352	C25H52	000629-99-2	91
4	Octadecane	254	C18H38	000593-45-3	90
5	Docosane	310	C22H46	000629-97-0	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

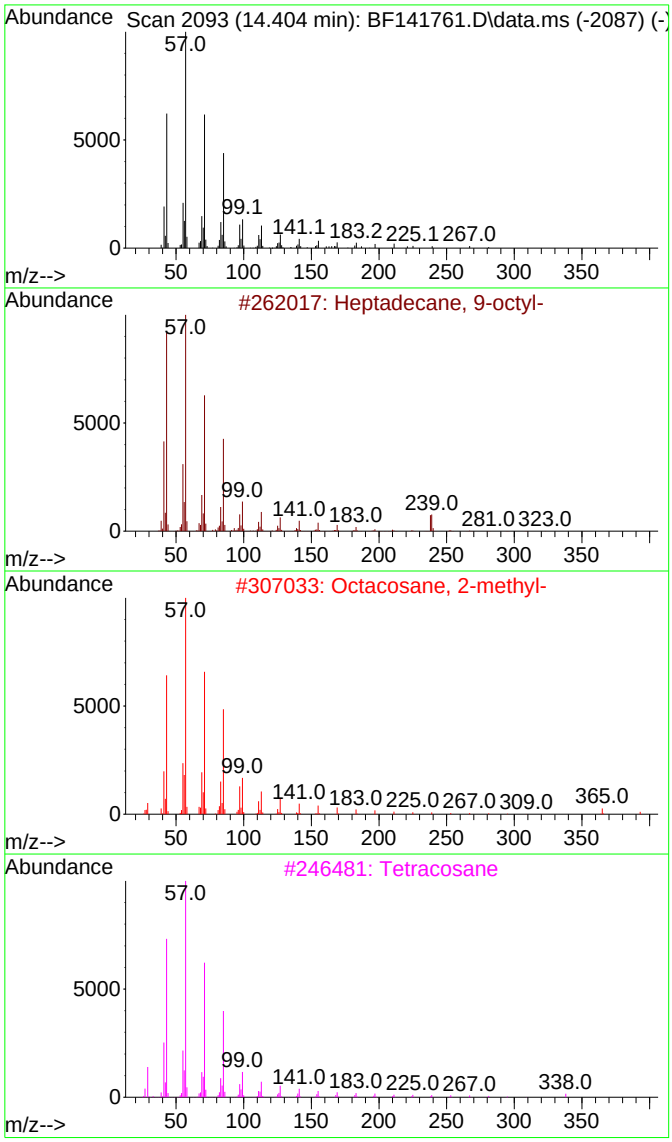
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

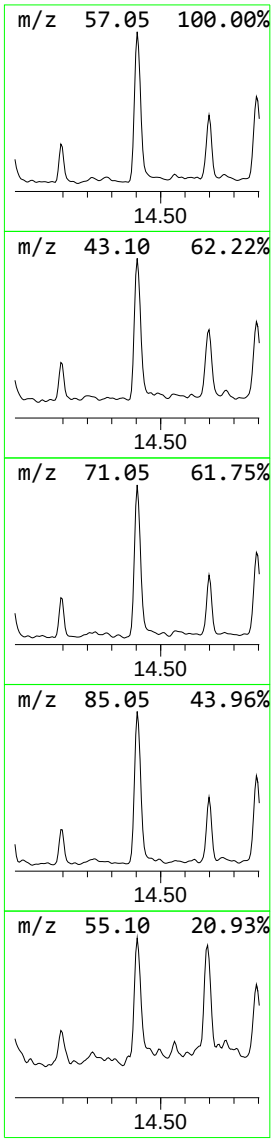
****

Peak Number 11 Heptadecane, 9-octyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.404	8.37 ng	194181	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
2	Octacosane, 2-methyl-	408	C29H60	001560-98-1	91
3	Tetracosane	338	C24H50	000646-31-1	91
4	Heptacosane	380	C27H56	000593-49-7	91
5	Heneicosane	296	C21H44	000629-94-7	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

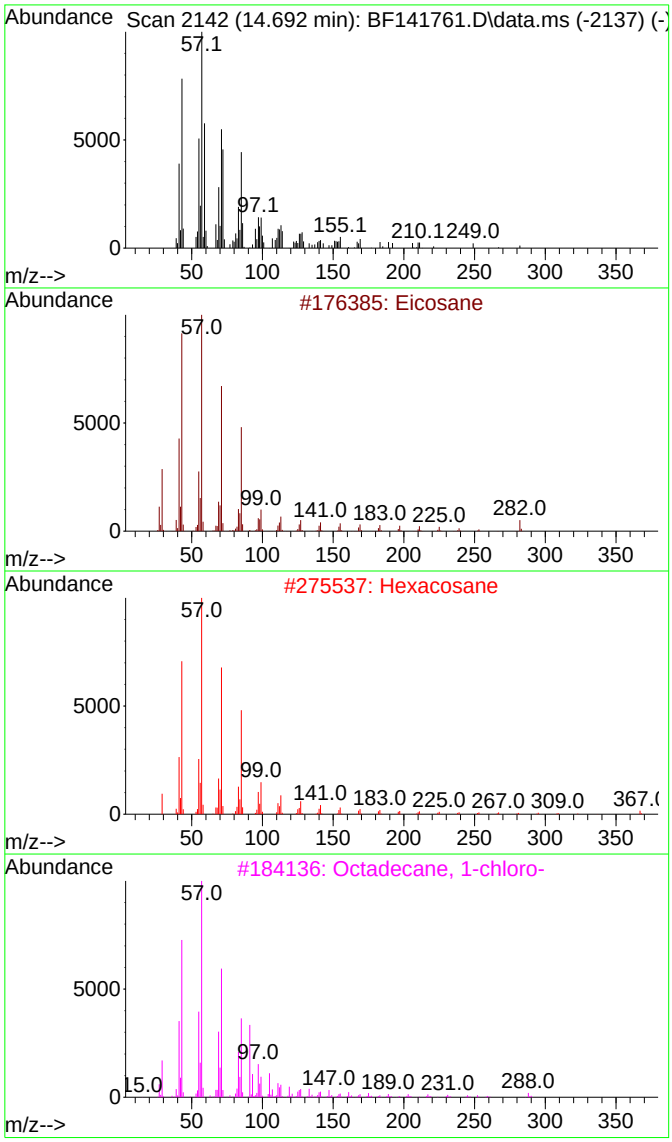
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

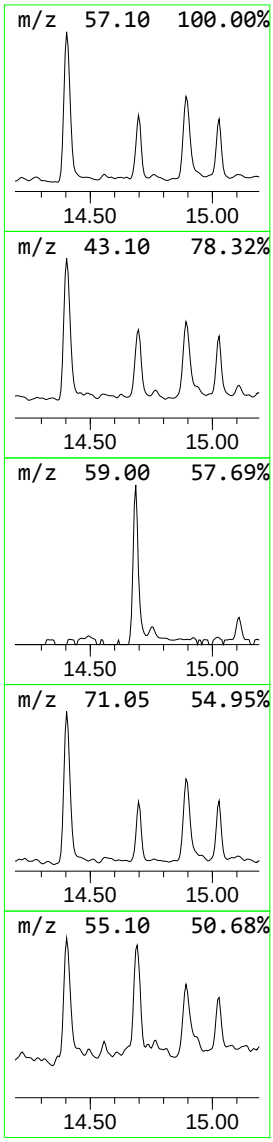
****

Peak Number 12 Eicosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.692	4.34 ng	110028	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	50
2	Hexacosane	366	C26H54	000630-01-3	46
3	Octadecane, 1-chloro-	288	C18H37Cl	003386-33-2	46
4	Tritetracontane	605	C43H88	007098-21-7	46
5	Tetratetracontane	619	C44H90	007098-22-8	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

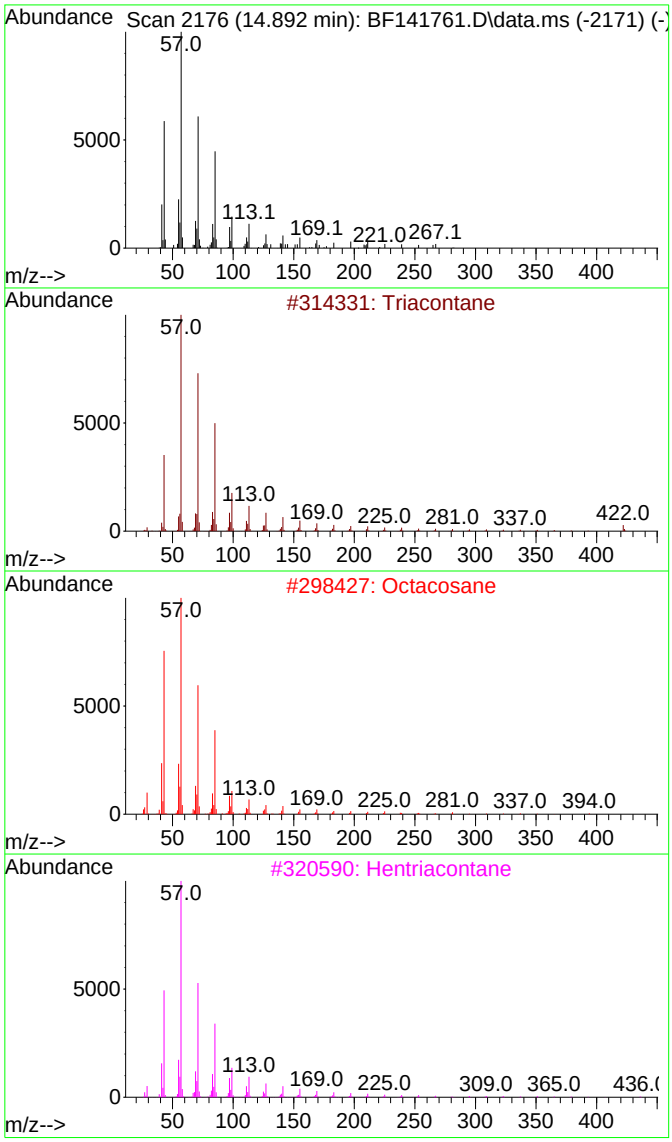
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

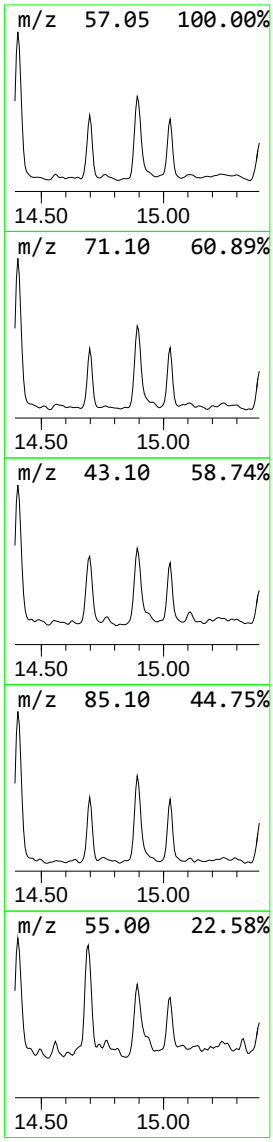
****

Peak Number 13 Triacontane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.892	4.02 ng	101942	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triacontane	422	C30H62	000638-68-6	91
2	Octacosane	394	C28H58	000630-02-4	91
3	Hentriacontane	437	C31H64	000630-04-6	91
4	Pentacosane	352	C25H52	000629-99-2	91
5	Eicosane, 10-methyl-	296	C21H44	054833-23-7	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

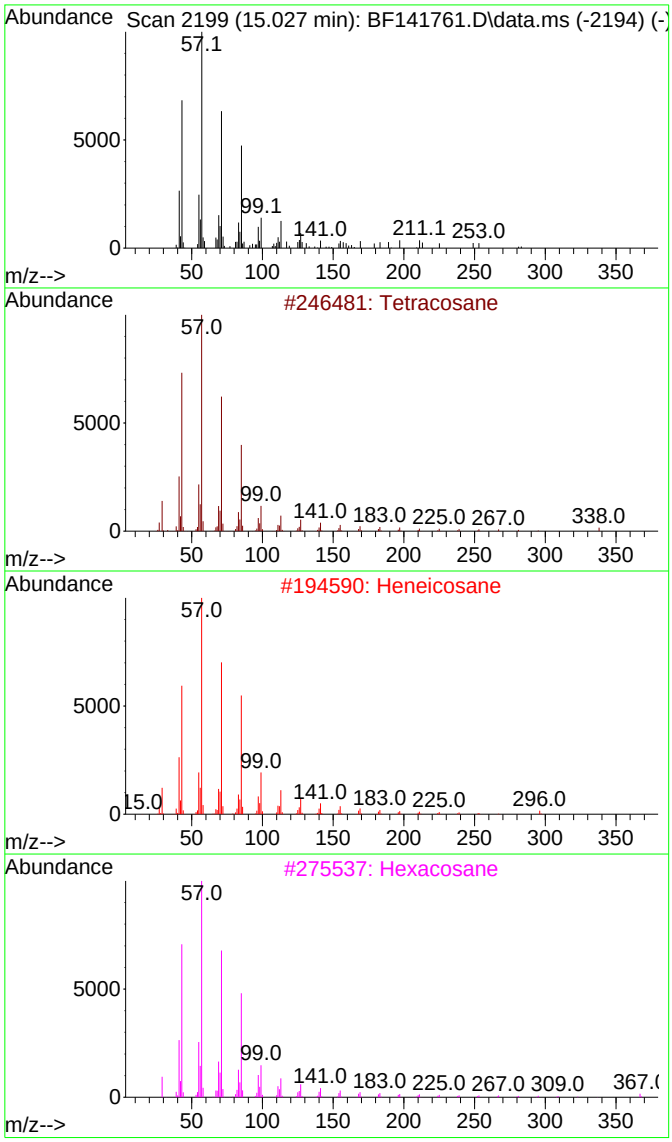
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

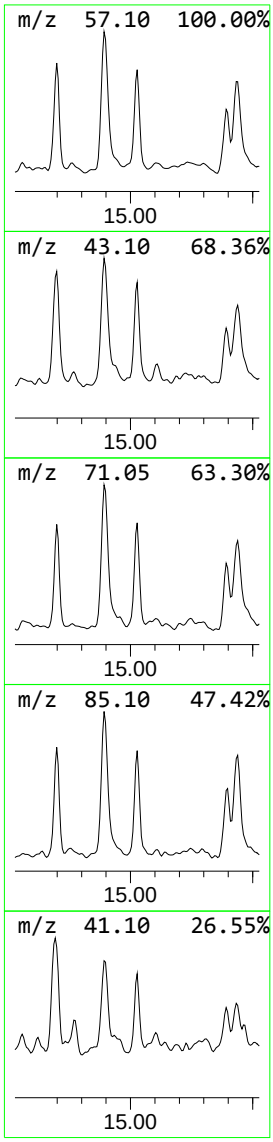
****

Peak Number 14 Tetracosane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.027	2.55 ng	64722	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	91
2	Heneicosane	296	C21H44	000629-94-7	90
3	Hexacosane	366	C26H54	000630-01-3	90
4	Octacosane	394	C28H58	000630-02-4	90
5	Octacosane, 2-methyl-	408	C29H60	001560-98-1	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141761.D
Acq On : 25 Feb 2025 13:37
Operator : RC/JU
Sample : Q1421-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.987	3.1	ng	66431	1	6.781	424257	20.0
Benzophenone	10.527	8.9	ng	279253	3	9.816	627750	20.0
n-Hexadecanoic ...	11.833	42.0	ng	1253020	4	11.298	596483	20.0
Hentriacontane	12.345	4.3	ng	129227	4	11.298	596483	20.0
13-Octadecenal,...	12.539	2.4	ng	71466	4	11.298	596483	20.0
Octadecanoic acid	12.616	15.4	ng	457712	4	11.298	596483	20.0
1,4-Benzenedica...	12.810	13.5	ng	313863	5	13.939	464226	20.0
Heptacosane	13.239	5.1	ng	119248	5	13.939	464226	20.0
Trichloroacetic...	13.798	4.7	ng	109912	5	13.939	464226	20.0
Hexadecane, 1-i...	13.880	6.7	ng	154879	5	13.939	464226	20.0
Heptadecane, 9-...	14.404	8.4	ng	194181	5	13.939	464226	20.0
Eicosane	14.692	4.3	ng	110028	6	15.386	507231	20.0
Triacontane	14.892	4.0	ng	101942	6	15.386	507231	20.0
Tetracosane	15.027	2.5	ng	64722	6	15.386	507231	20.0

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141764.D	1	02/25/25 09:30	02/25/25 15:06	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	240	U	240	440	ug/Kg
108-95-2	Phenol	110	J	110	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	110	U	110	230	ug/Kg
95-57-8	2-Chlorophenol	110	U	110	230	ug/Kg
95-48-7	2-Methylphenol	110	U	110	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	120	U	120	230	ug/Kg
98-86-2	Acetophenone	120	U	120	230	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.6	U	53.6	110	ug/Kg
67-72-1	Hexachloroethane	110	U	110	230	ug/Kg
98-95-3	Nitrobenzene	120	U	120	230	ug/Kg
78-59-1	Isophorone	110	U	110	230	ug/Kg
88-75-5	2-Nitrophenol	130	U	130	230	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	230	ug/Kg
120-83-2	2,4-Dichlorophenol	100	U	100	230	ug/Kg
91-20-3	Naphthalene	110	U	110	230	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	230	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	230	ug/Kg
105-60-2	Caprolactam	120	U	120	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	100	U	100	230	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	210	U	210	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	94.9	U	94.9	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	98.4	U	98.4	230	ug/Kg
92-52-4	1,1-Biphenyl	120	U	120	230	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	230	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	230	ug/Kg
131-11-3	Dimethylphthalate	110	U	110	230	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141764.D	1	02/25/25 09:30	02/25/25 15:06	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	230	ug/Kg
99-09-2	3-Nitroaniline	120	U	120	230	ug/Kg
83-32-9	Acenaphthene	110	U	110	230	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	320	440	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	440	ug/Kg
132-64-9	Dibenzofuran	110	U	110	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	230	ug/Kg
84-66-2	Diethylphthalate	110	U	110	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	230	ug/Kg
86-73-7	Fluorene	110	U	110	230	ug/Kg
100-01-6	4-Nitroaniline	140	U	140	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	160	U	160	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	110	U	110	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	100	U	100	230	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	230	ug/Kg
1912-24-9	Atrazine	120	U	120	230	ug/Kg
87-86-5	Pentachlorophenol	100	U	100	440	ug/Kg
85-01-8	Phenanthrene	110	U	110	230	ug/Kg
120-12-7	Anthracene	110	U	110	230	ug/Kg
86-74-8	Carbazole	110	U	110	230	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	230	ug/Kg
206-44-0	Fluoranthene	110	U	110	230	ug/Kg
129-00-0	Pyrene	110	U	110	230	ug/Kg
85-68-7	Butylbenzylphthalate	130	UQ	130	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	130	U	130	440	ug/Kg
56-55-3	Benzo(a)anthracene	110	U	110	230	ug/Kg
218-01-9	Chrysene	110	U	110	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	120	U	120	230	ug/Kg
117-84-0	Di-n-octyl phthalate	150	U	150	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	U	110	230	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141764.D	1	02/25/25 09:30	02/25/25 15:06	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	U	110	230	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	U	110	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	120	U	120	230	ug/Kg
123-91-1	1,4-Dioxane	150	U	150	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	99.3	U	99.3	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	135		18 - 112	90%	SPK: 150
13127-88-3	Phenol-d6	133		15 - 107	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.8		18 - 107	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.8		20 - 109	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	107		10 - 116	71%	SPK: 150
1718-51-0	Terphenyl-d14	79.4		10 - 105	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	71400	6.781			
1146-65-2	Naphthalene-d8	281000	8.063			
15067-26-2	Acenaphthene-d10	149000	9.816			
1517-22-2	Phenanthrene-d10	236000	11.298			
1719-03-5	Chrysene-d12	161000	13.939			
1520-96-3	Perylene-d12	175000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	140	A		4.99	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	98.8	J		7.61	ug/Kg
000119-61-9	Benzophenone	400	J		10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	350	J		11.8	ug/Kg
000544-63-8	Tetradecanoic acid	170	J		12.6	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	360	J		13.8	ug/Kg
000301-02-0	9-Octadecenamide, (Z)-	160	J		14.7	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141764.D	1	02/25/25 09:30	02/25/25 15:06	PB166853

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

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\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Quant Time: Feb 25 15:25:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

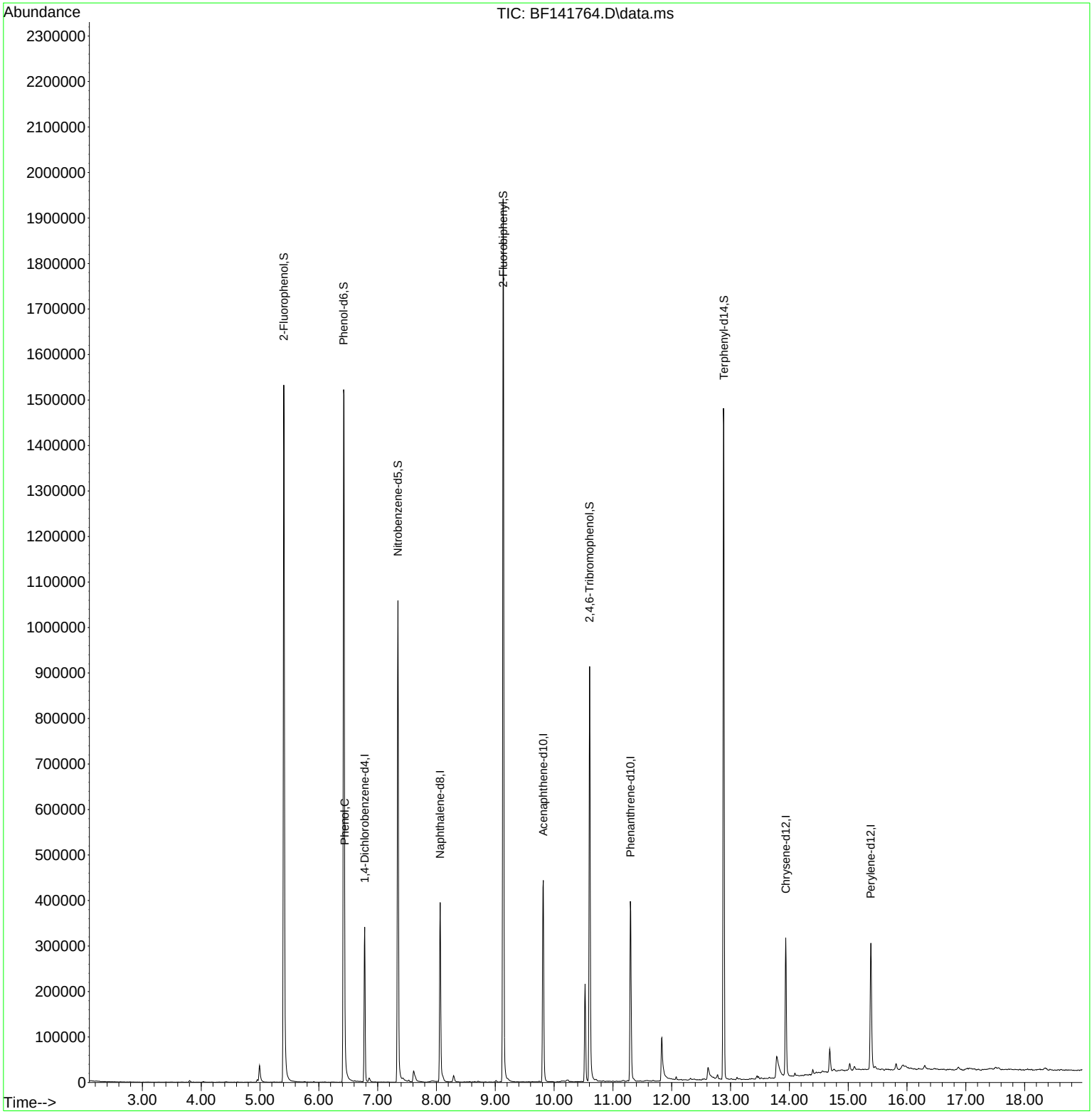
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	71356	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	280947	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	149058	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	236469	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	160844	20.000	ng	-0.02
86) Perylene-d12	15.386	264	174752	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	616588	135.469	ng	0.00
7) Phenol-d6	6.422	99	764563	132.904	ng	-0.02
23) Nitrobenzene-d5	7.345	82	489046	90.792	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	159578	106.573	ng	-0.02
45) 2-Fluorobiphenyl	9.133	172	898126	92.829	ng	-0.02
79) Terphenyl-d14	12.886	244	756423	79.392	ng	-0.02
Target Compounds						Qvalue
10) Phenol	6.439	94	14286	2.386	ng	# 72

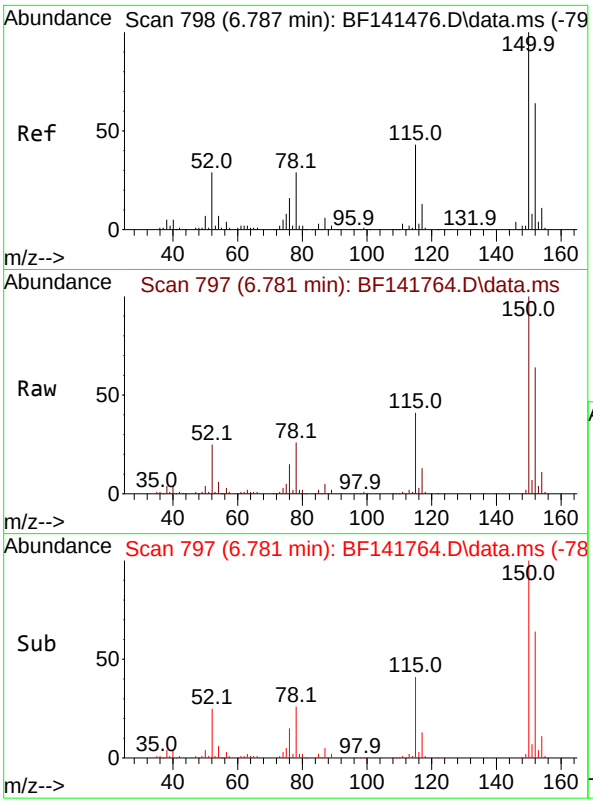
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Quant Time: Feb 25 15:25:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



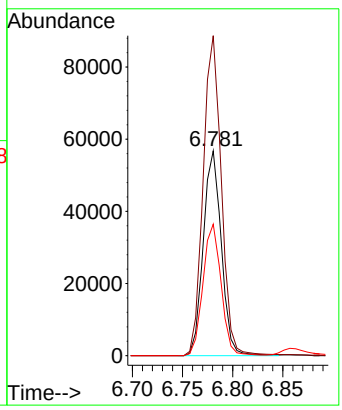


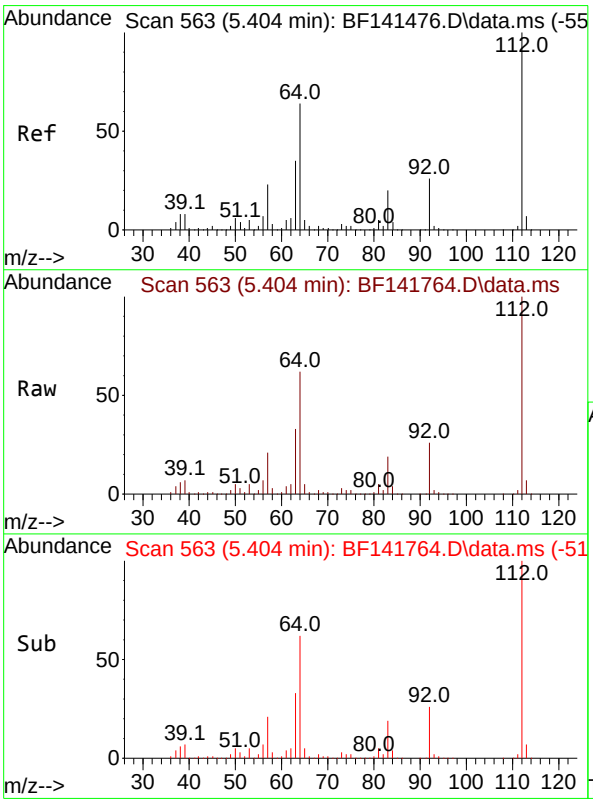
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion:152 Resp: 71356

Ion	Ratio	Lower	Upper
152	100		
150	156.2	125.0	187.4
115	64.2	53.6	80.4

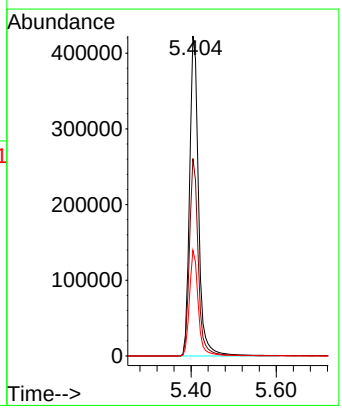


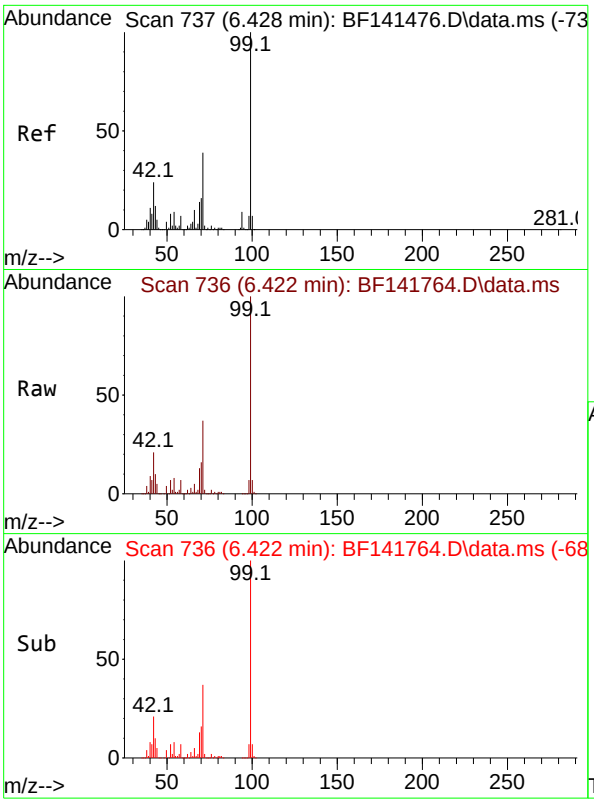


#5
2-Fluorophenol
Concen: 135.469 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Tgt Ion:112 Resp: 616588

Ion	Ratio	Lower	Upper
112	100		
64	61.7	51.1	76.7
63	33.0	28.4	42.6



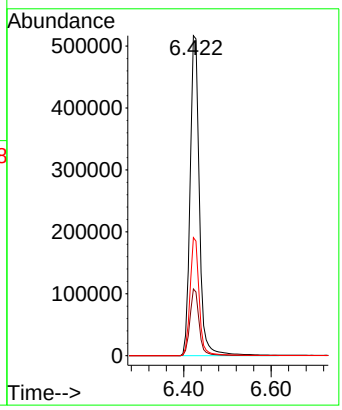


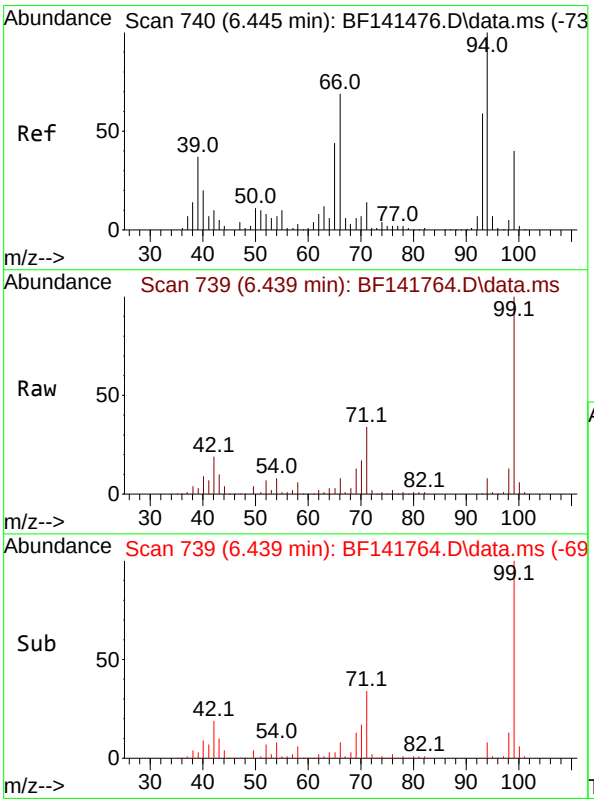
#7
Phenol-d6
Concen: 132.904 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion: 99 Resp: 764563

Ion	Ratio	Lower	Upper
99	100		
42	20.9	19.1	28.7
71	36.9	31.1	46.7

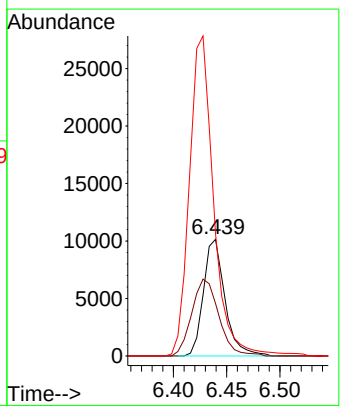


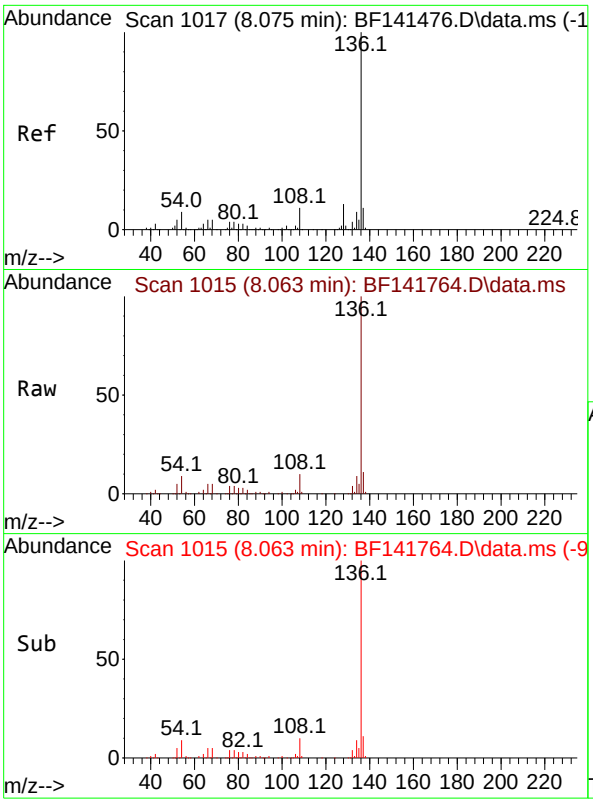


#10
Phenol
Concen: 2.386 ng
RT: 6.439 min Scan# 739
Delta R.T. -0.018 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Tgt Ion: 94 Resp: 14286

Ion	Ratio	Lower	Upper
94	100		
65	45.1	23.7	63.7
66	105.1	49.3	89.3#



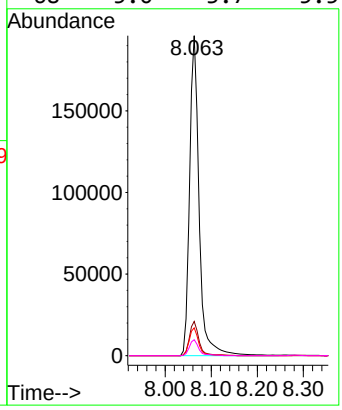


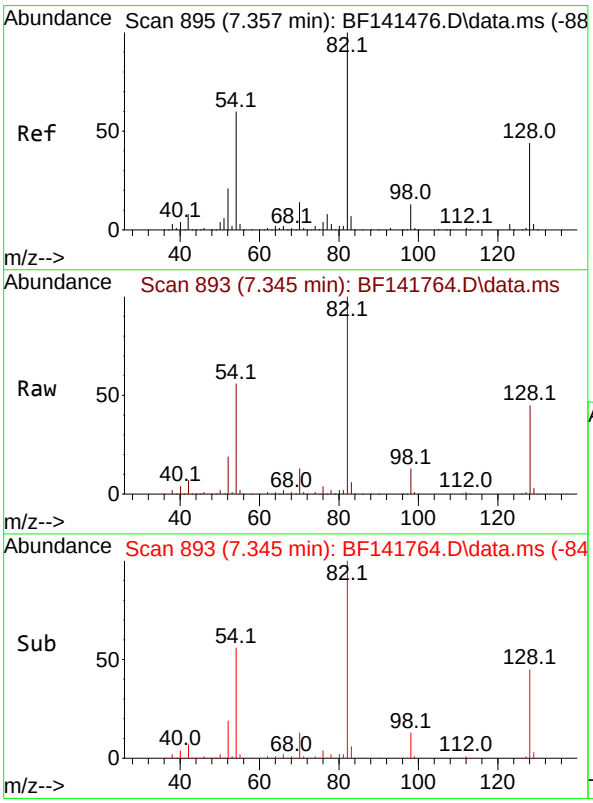
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion:136 Resp: 280947

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.7	7.2	10.8
68	5.0	3.7	5.5

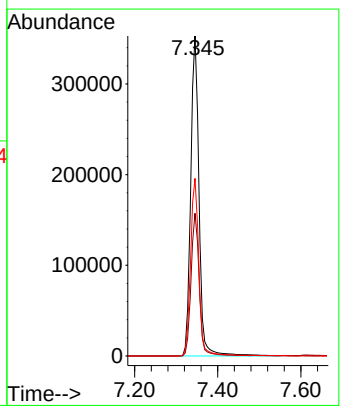


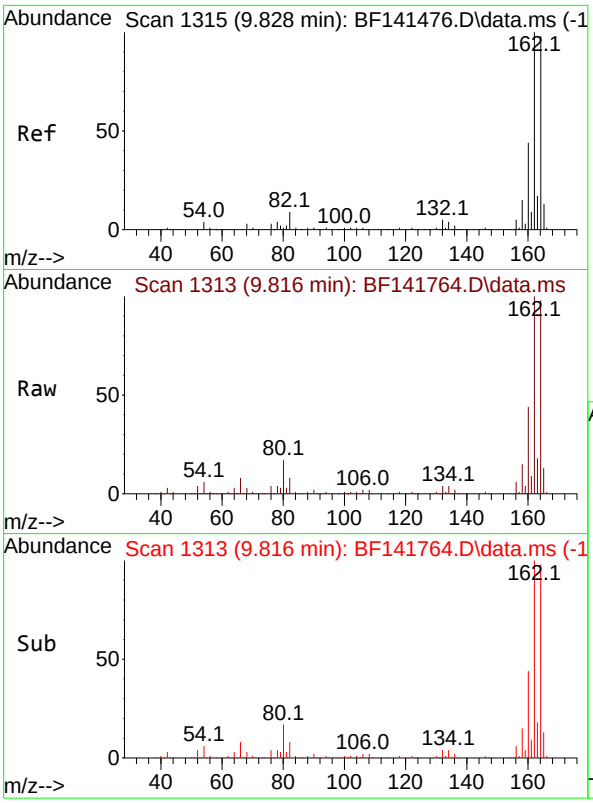


#23
Nitrobenzene-d5
Concen: 90.792 ng
RT: 7.345 min Scan# 893
Delta R.T. -0.018 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Tgt Ion: 82 Resp: 489046

Ion	Ratio	Lower	Upper
82	100		
128	44.6	34.8	52.2
54	55.5	48.2	72.4



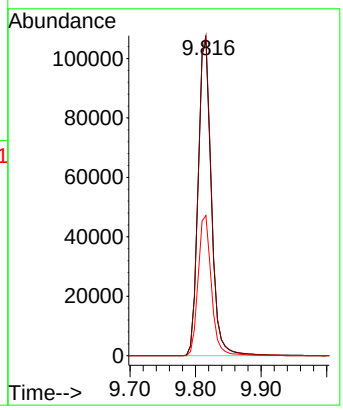


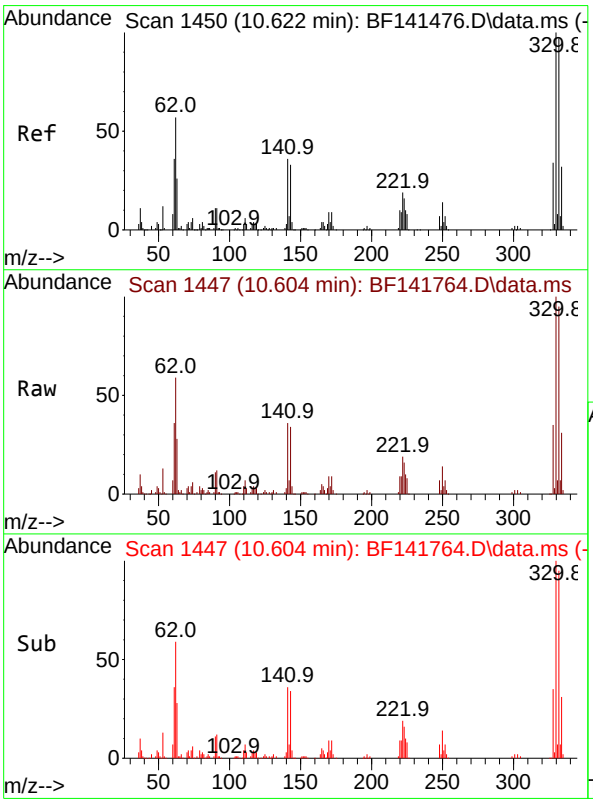
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion:164 Resp: 149058

Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.3	121.9
160	44.5	35.9	53.9

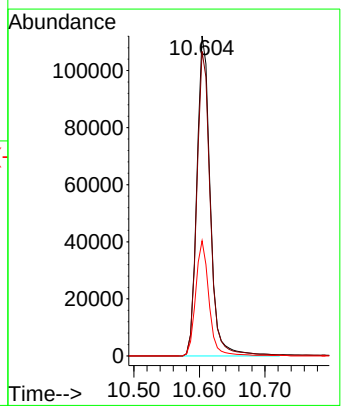


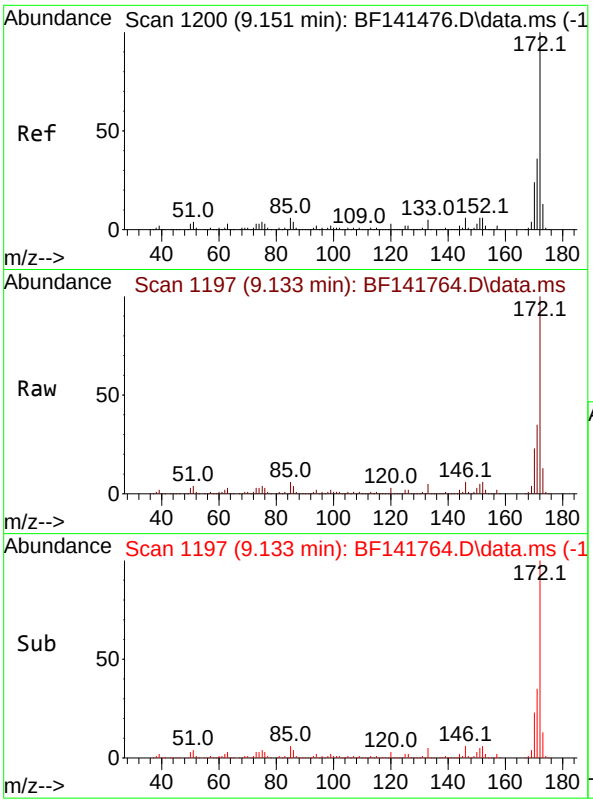


#42
2,4,6-Tribromophenol
Concen: 106.573 ng
RT: 10.604 min Scan# 1447
Delta R.T. -0.023 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Tgt Ion:330 Resp: 159578

Ion	Ratio	Lower	Upper
330	100		
332	95.9	78.5	117.7
141	36.1	31.0	46.4



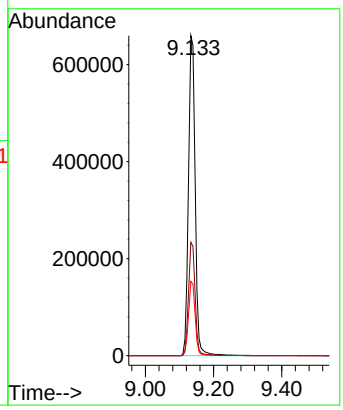


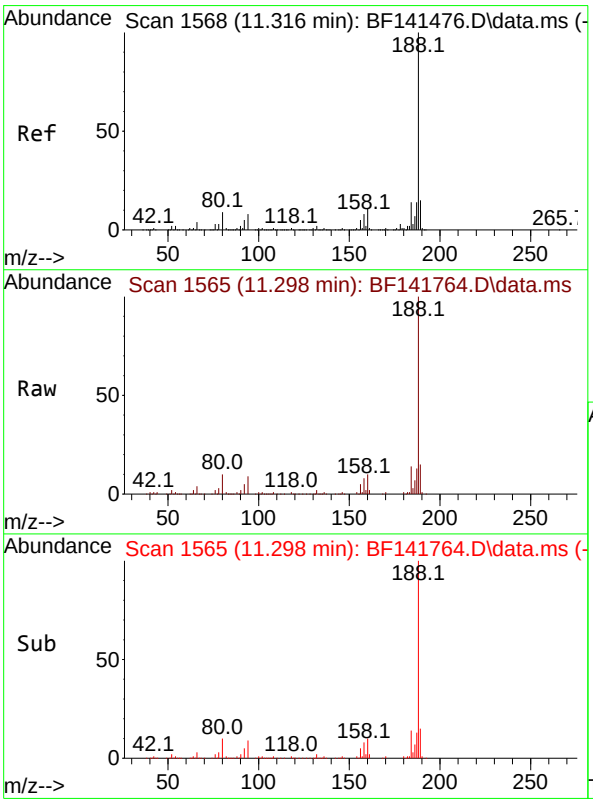
#45
2-Fluorobiphenyl
Concen: 92.829 ng
RT: 9.133 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion:172 Resp: 898126

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.7	43.1
170	23.2	18.9	28.3

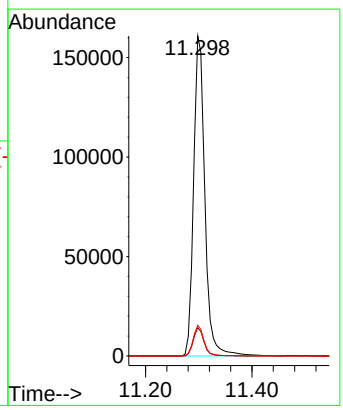


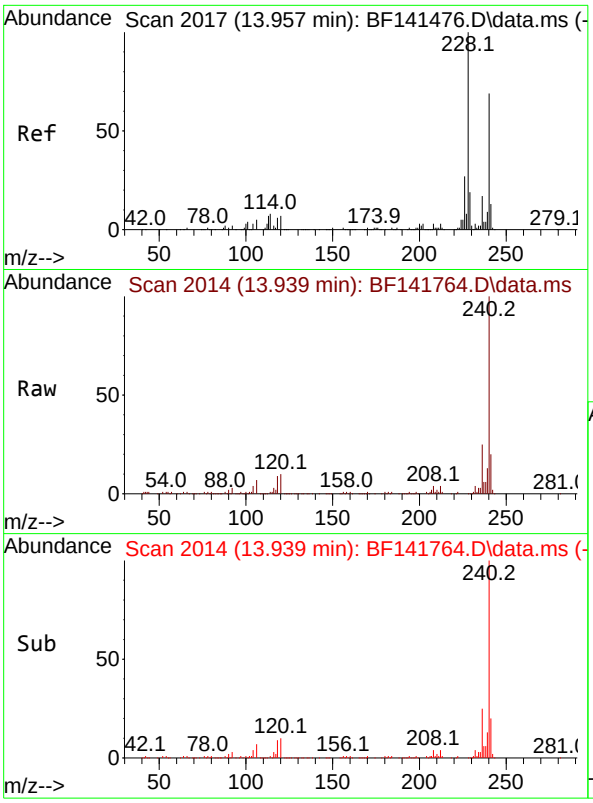


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1565
Delta R.T. -0.018 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Tgt Ion:188 Resp: 236469

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.6	7.3	10.9



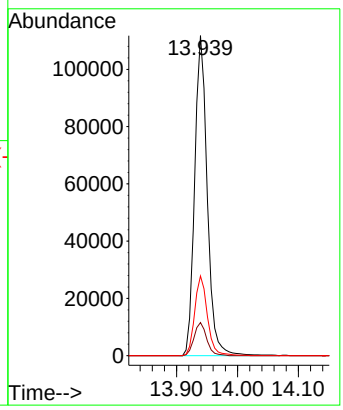


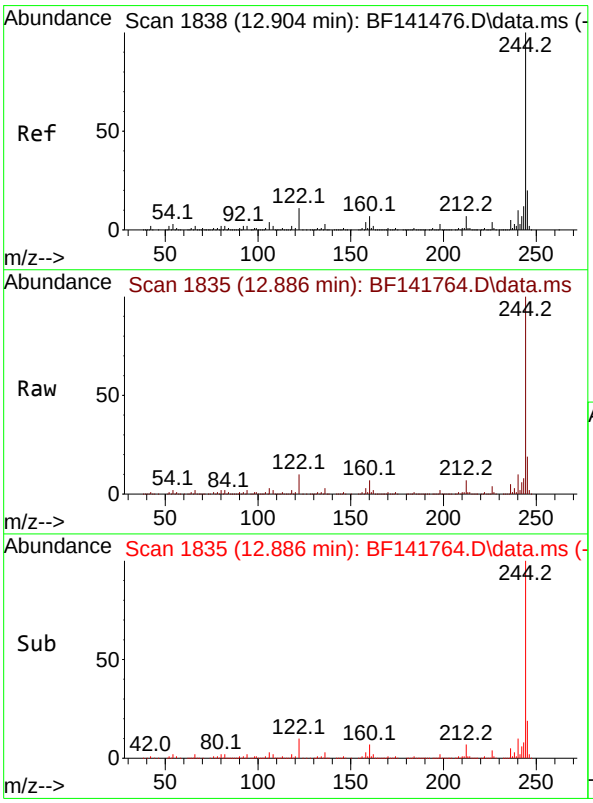
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2(
Delta R.T. -0.023 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion:240 Resp: 160844

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.0	12.0
236	24.9	19.8	29.8

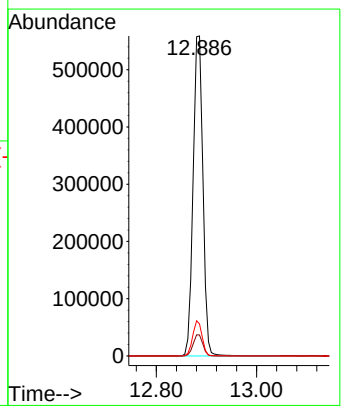


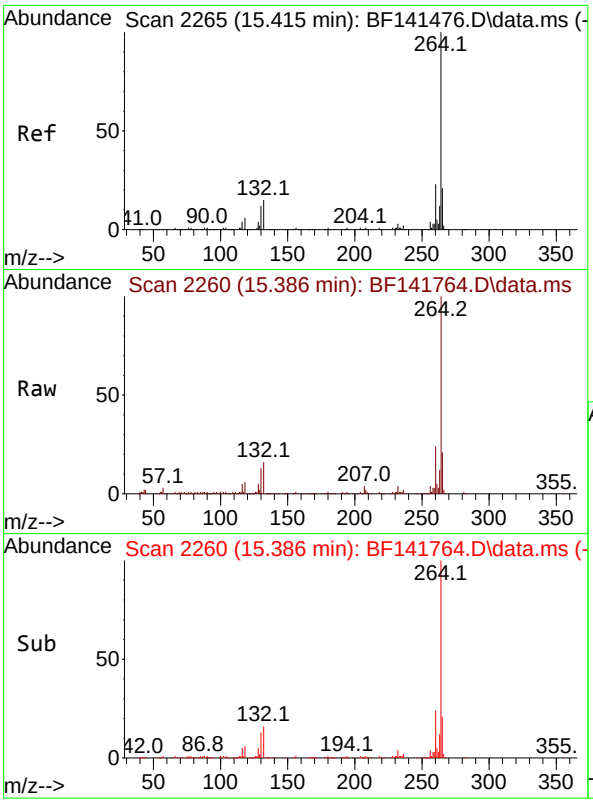


#79
Terphenyl-d14
Concen: 79.392 ng
RT: 12.886 min Scan# 1835
Delta R.T. -0.018 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Tgt Ion:244 Resp: 756423

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	10.0	8.4	12.6



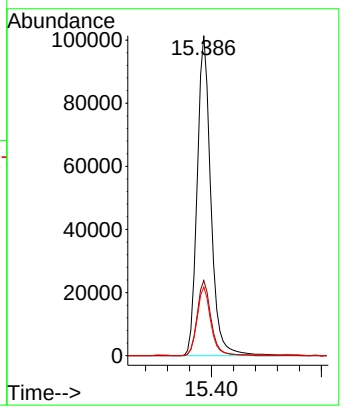


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF141764.D
Acq: 25 Feb 2025 15:06

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion:264 Resp: 174752

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	28.0
265	21.4	17.0	25.4



Sample Results: **BF141764.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141764.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.993	489	493	508	rVB	36284	65834	2.54%	0.416%
2	5.404	558	563	592	rBV	1531684	2201614	84.81%	13.925%
3	6.422	731	736	765	rBV	1521939	2283290	87.95%	14.442%
4	6.781	792	797	805	rBV	339784	425207	16.38%	2.689%
5	7.345	887	893	905	rBV	1058031	1436381	55.33%	9.085%
6	7.610	933	938	952	rBV	23768	62196	2.40%	0.393%
7	8.063	1010	1015	1034	rVB	393676	557597	21.48%	3.527%
8	9.133	1192	1197	1221	rBV	1940451	2596079	100.00%	16.420%
9	9.816	1307	1313	1327	rBV	442981	620550	23.90%	3.925%
10	10.527	1429	1434	1442	rBV	214328	278775	10.74%	1.763%
11	10.604	1442	1447	1462	rVV	910898	1266940	48.80%	8.013%
12	11.298	1560	1565	1581	rVB	395200	571442	22.01%	3.614%
13	11.833	1650	1656	1676	rBV2	95540	227584	8.77%	1.439%
14	12.621	1784	1790	1810	rBV5	26298	85633	3.30%	0.542%
15	12.880	1829	1834	1846	rBV	1474684	1966348	75.74%	12.437%
16	13.786	1982	1988	2007	rBV2	46546	177187	6.83%	1.121%
17	13.939	2009	2014	2025	rVB	303384	434778	16.75%	2.750%
18	14.686	2136	2141	2148	rBV2	50453	83900	3.23%	0.531%
19	15.386	2254	2260	2269	rBV	276568	469029	18.07%	2.967%

Sum of corrected areas: 15810364

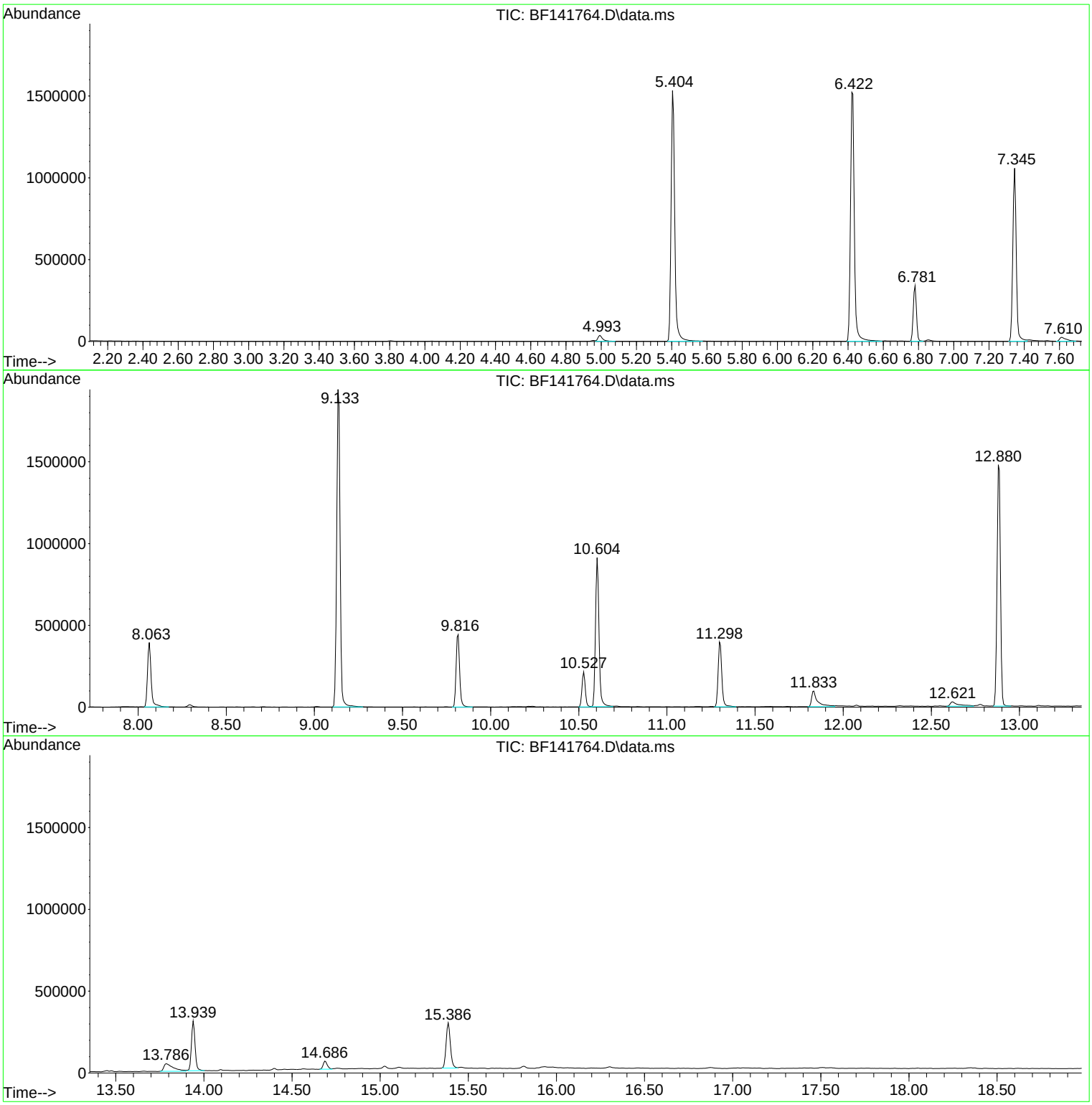
Sample Results: **BF141764.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

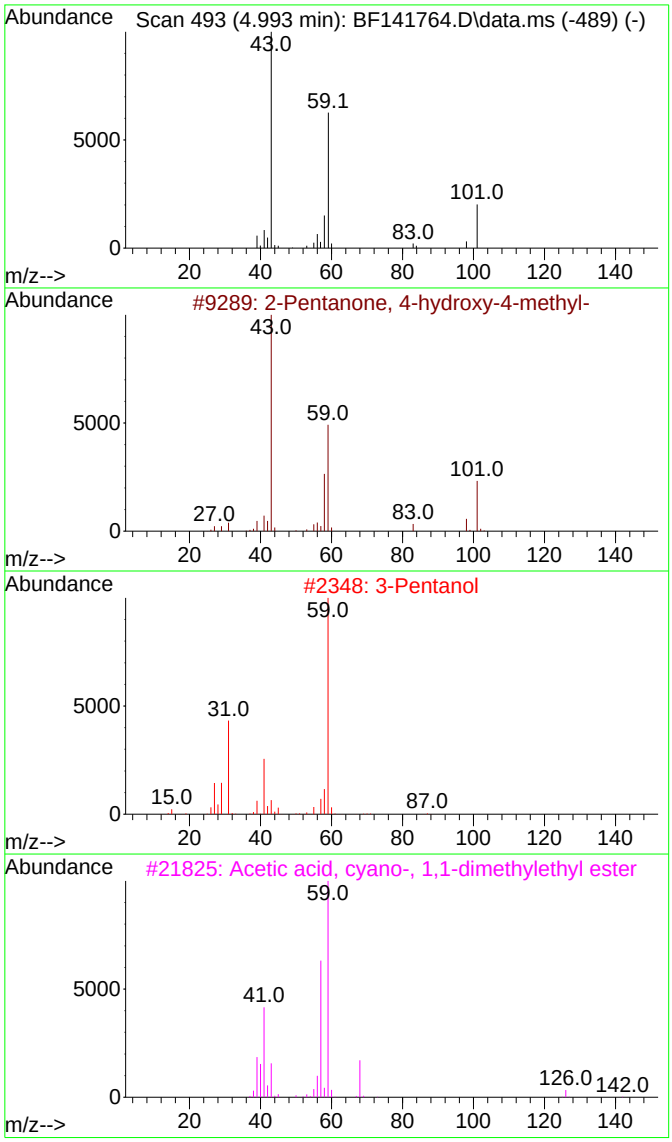
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

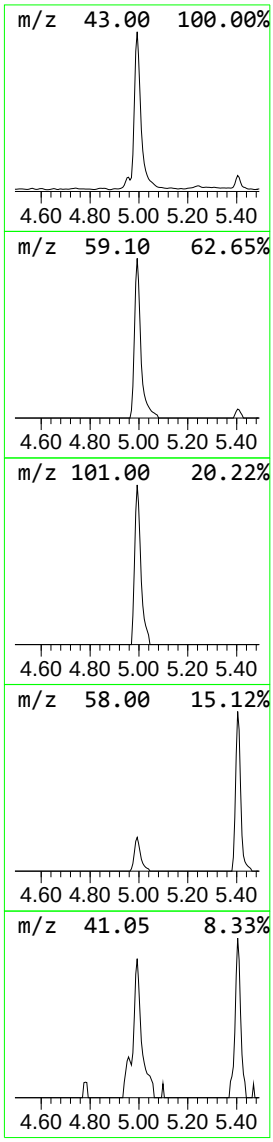
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.993	3.10 ng	65834	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	3-Pentanol	88	C5H12O	000584-02-1	25
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	17
5	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

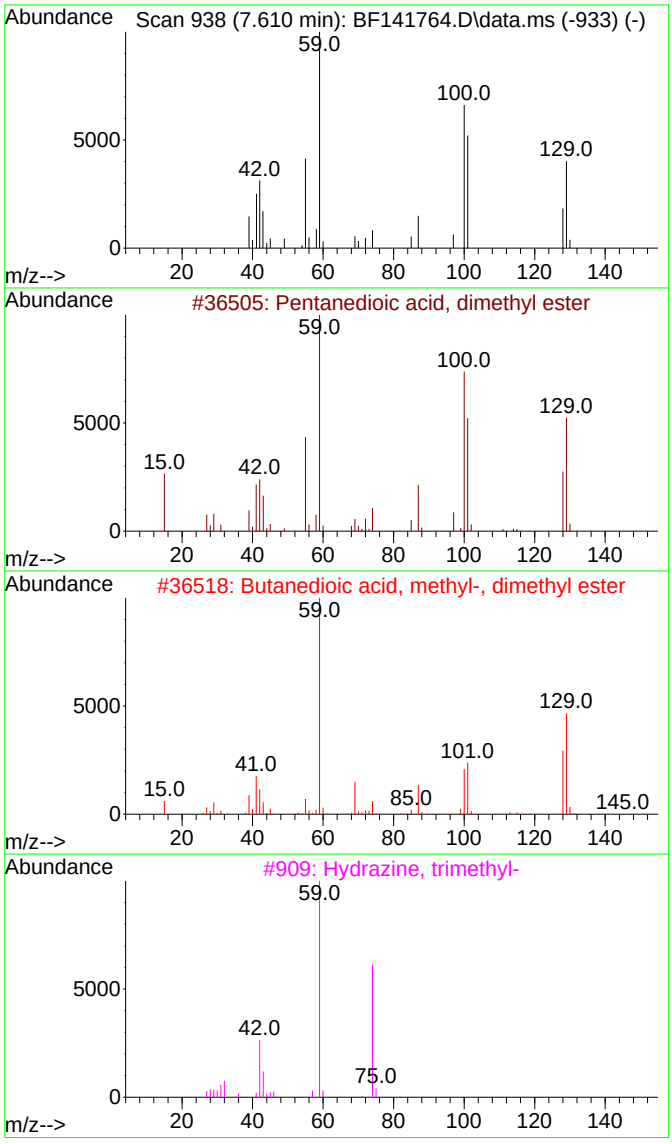
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

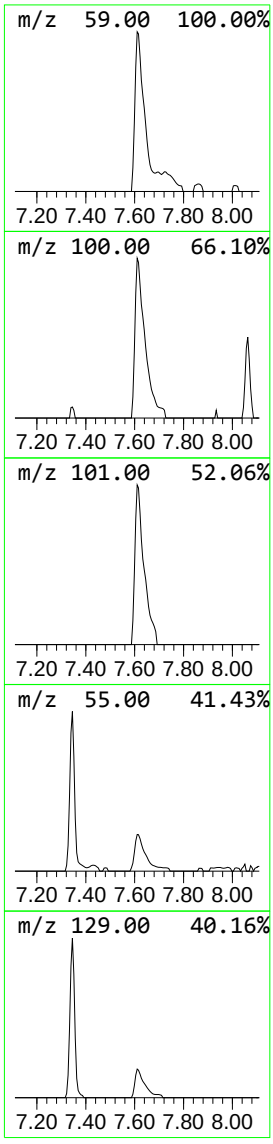
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.610	2.23 ng	62196	Naphthalene-d8	8.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	91
2	Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	42
3	Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	27
4	Hydrazine, (1-methylethyl)-	74	C3H10N2	002257-52-5	27
5	1,4-Di-O-acetyl-2,5-di-O-methyl-...	262	C12H22O6	1000101-82-1	23





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

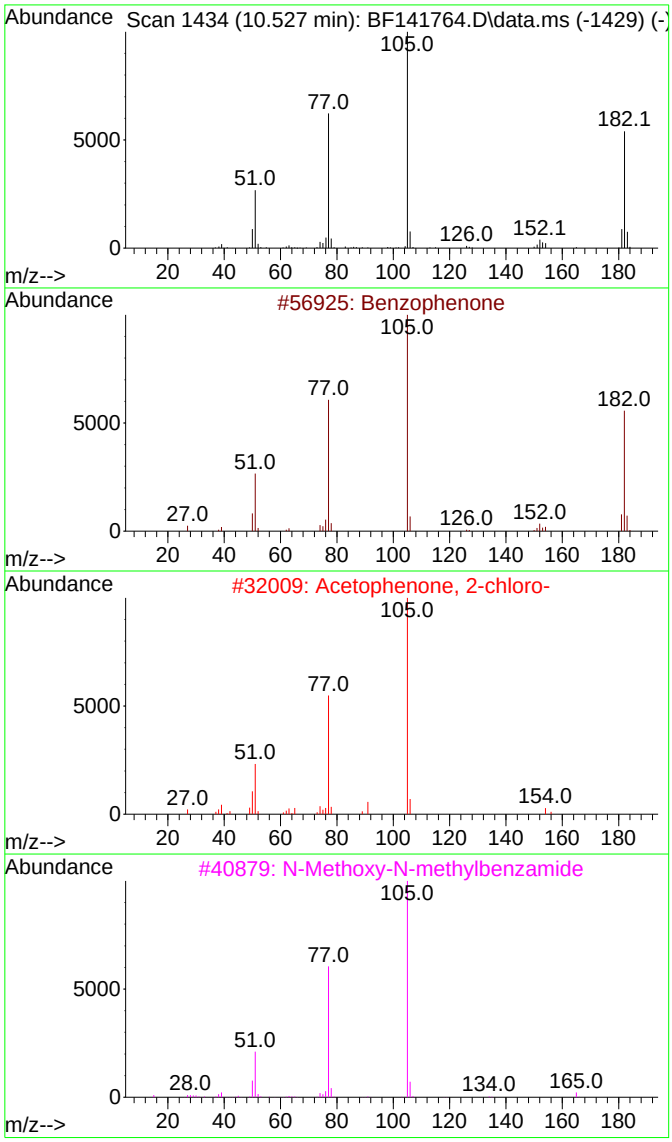
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

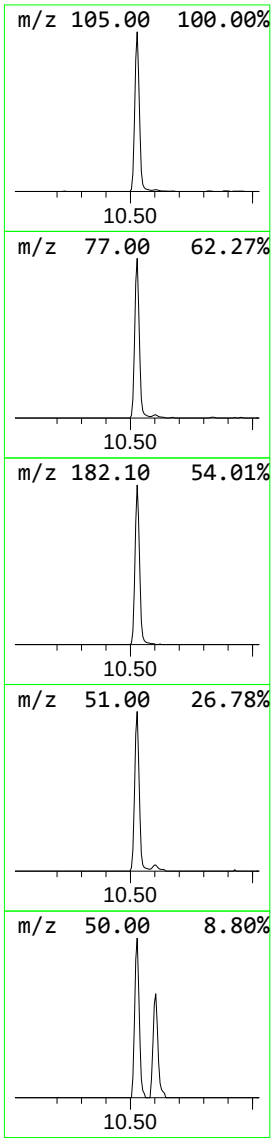
****

Peak Number 3 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	8.98 ng	278775	Acenaphthene-d10	9.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
4	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	47
5	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

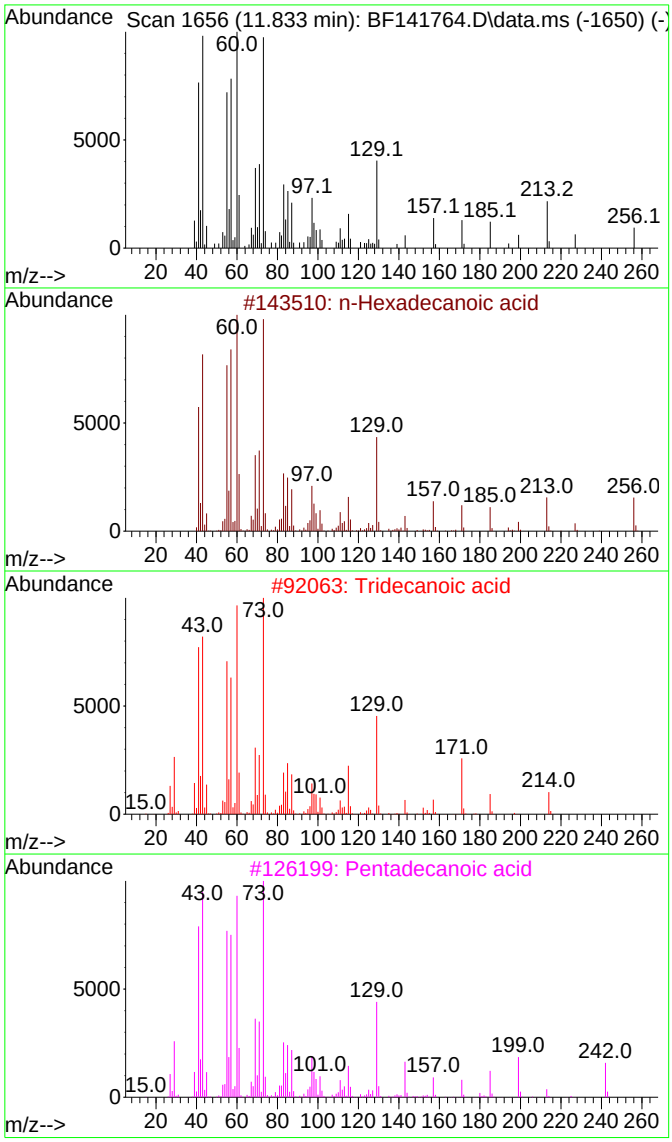
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

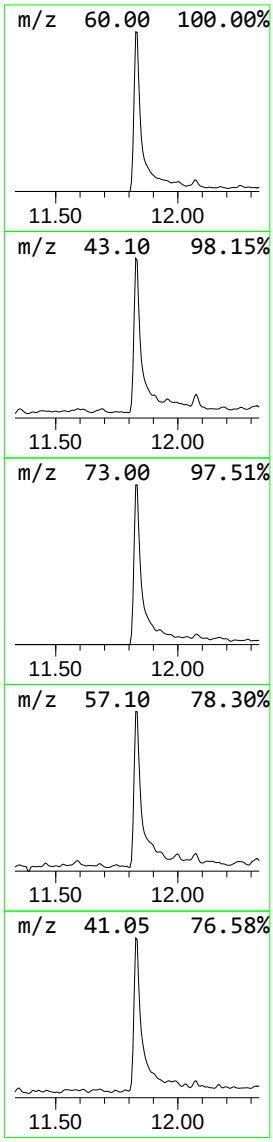
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.833	7.97 ng	227584	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	n-Decanoic acid	172	C10H20O2	000334-48-5	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

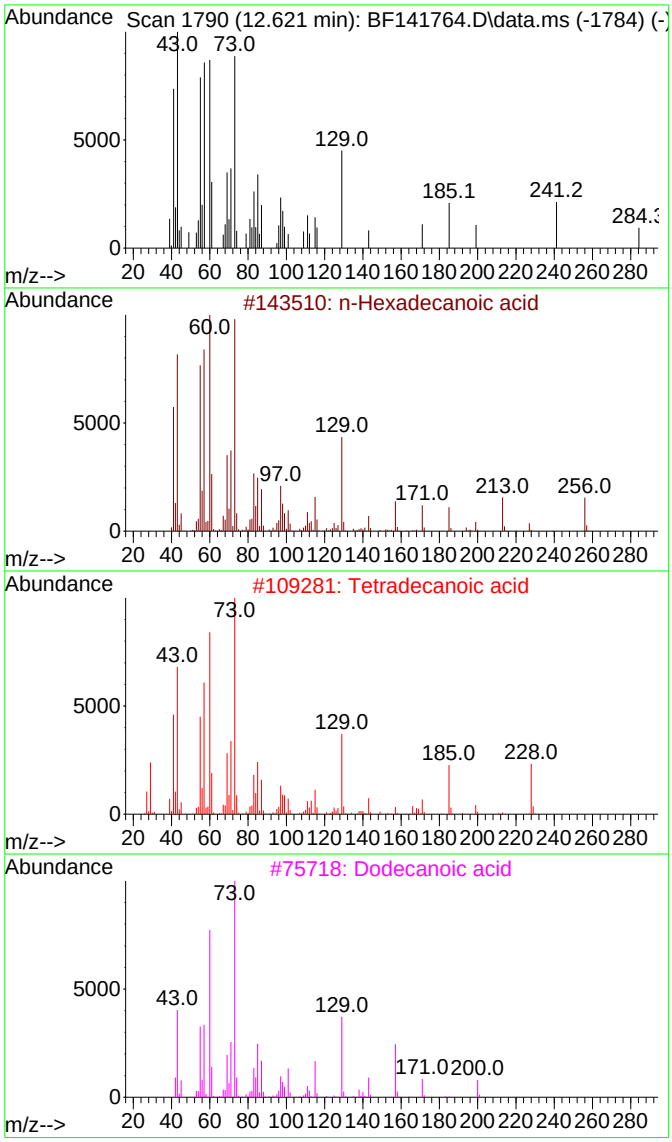
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

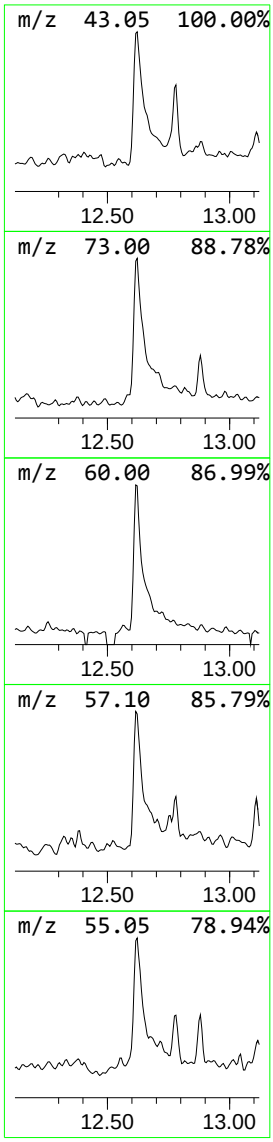
****

Peak Number 5 Tetradecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.621	3.94 ng	85633	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	83
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
3	Dodecanoic acid	200	C12H24O2	000143-07-7	53
4	n-Decanoic acid	172	C10H20O2	000334-48-5	52
5	Octadecanoic acid	284	C18H36O2	000057-11-4	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

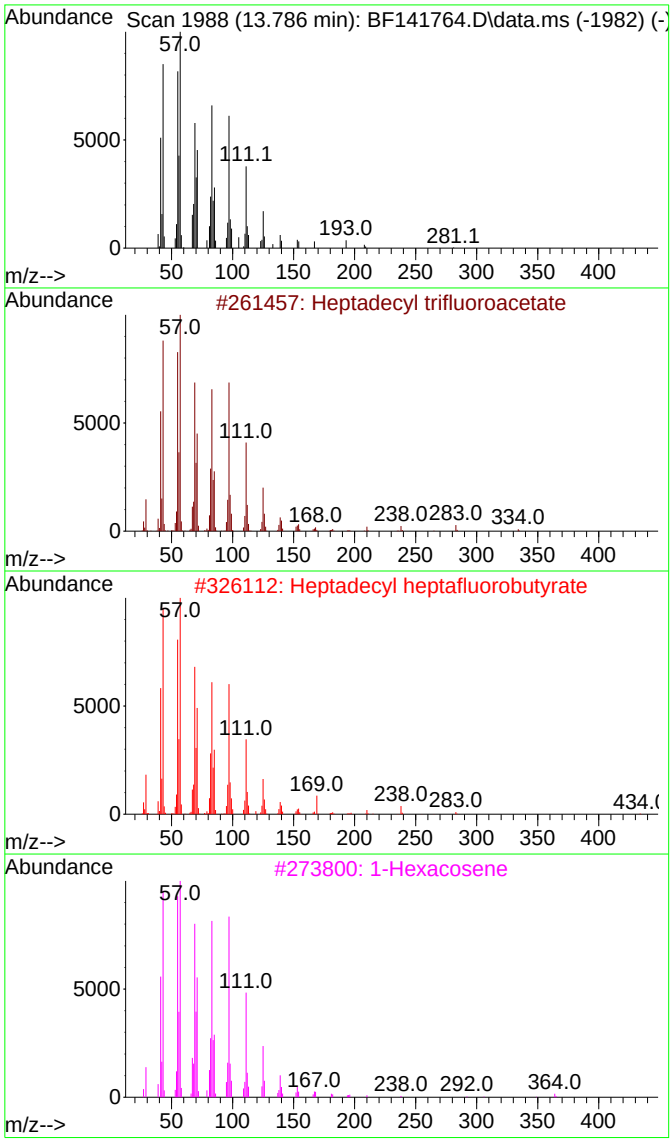
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

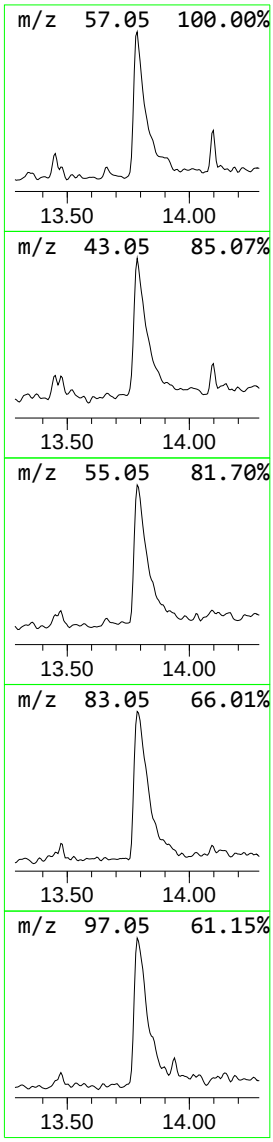
****

Peak Number 6 Heptadecyl trifluoroacetate Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	8.15 ng	177187	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	93
3	1-Hexacosene	364	C26H52	018835-33-1	93
4	1-Tricosene	322	C23H46	018835-32-0	93
5	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

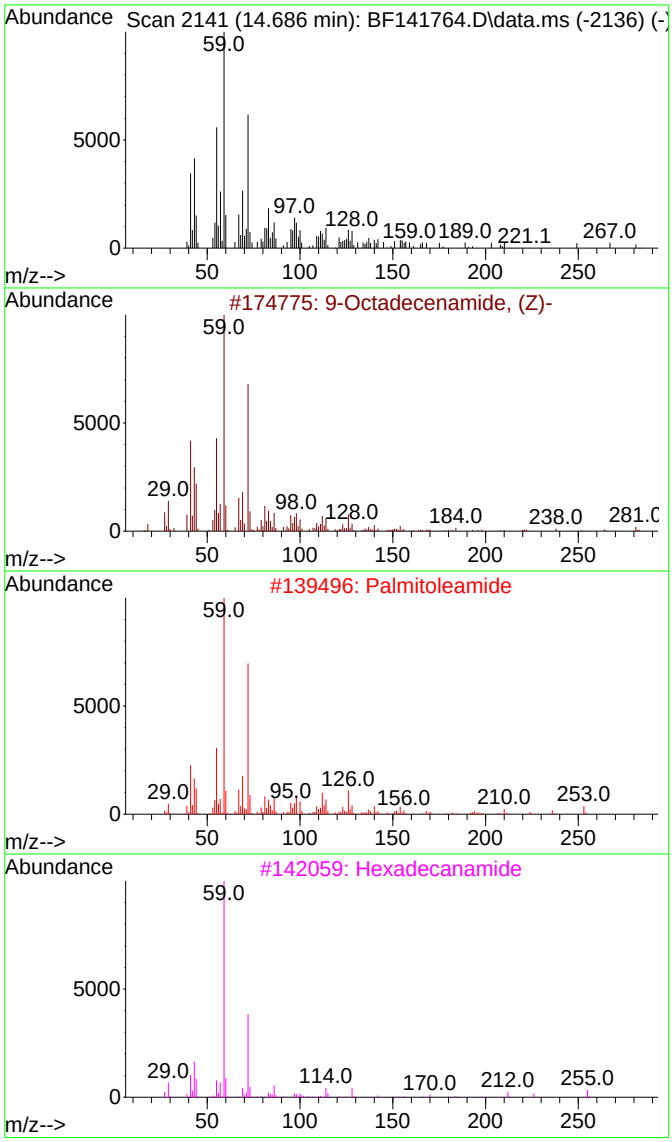
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

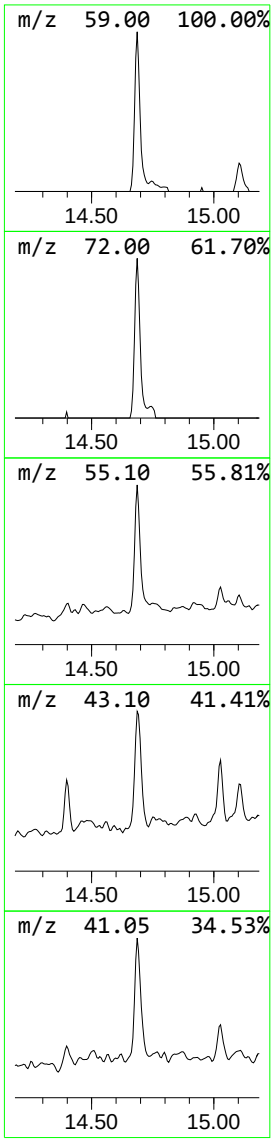
****

Peak Number 7 9-Octadecenamide, (Z)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.686	3.58 ng	83900	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	97
2	Palmitoleamide	253	C16H31NO	106010-22-4	80
3	Hexadecanamide	255	C16H33NO	000629-54-9	72
4	Pentadecanamide, 15-bromo-	319	C15H30BrNO	1000163-86-1	59
5	2-Hydroxy-2-methylundec-5-en-3-one	198	C12H22O2	1000191-46-2	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141764.D
Acq On : 25 Feb 2025 15:06
Operator : RC/JU
Sample : Q1421-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.993	3.1	ng	65834	1	6.781	425207	20.0
Pentanedioic ac...	7.610	2.2	ng	62196	2	8.063	557597	20.0
Benzophenone	10.528	9.0	ng	278775	3	9.816	620550	20.0
n-Hexadecanoic ...	11.833	8.0	ng	227584	4	11.298	571442	20.0
Tetradecanoic acid	12.621	3.9	ng	85633	5	13.939	434778	20.0
Heptadecyl trif...	13.786	8.2	ng	177187	5	13.939	434778	20.0
9-Octadecenamid...	14.686	3.6	ng	83900	6	15.386	469029	20.0

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141765.D	1	02/25/25 09:30	02/25/25 15:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	230	U	230	420	ug/Kg
108-95-2	Phenol	110	U	110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	110	U	110	220	ug/Kg
95-57-8	2-Chlorophenol	110	U	110	220	ug/Kg
95-48-7	2-Methylphenol	100	U	100	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	120	U	120	220	ug/Kg
98-86-2	Acetophenone	110	U	110	220	ug/Kg
65794-96-9	3+4-Methylphenols	100	U	100	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.3	U	51.3	100	ug/Kg
67-72-1	Hexachloroethane	110	U	110	220	ug/Kg
98-95-3	Nitrobenzene	120	U	120	220	ug/Kg
78-59-1	Isophorone	110	U	110	220	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	96.2	U	96.2	220	ug/Kg
91-20-3	Naphthalene	110	U	110	220	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	220	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	220	ug/Kg
105-60-2	Caprolactam	110	U	110	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	98.7	U	98.7	220	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	200	U	200	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	91.0	U	91.0	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	94.3	U	94.3	220	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	220	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	220	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	220	ug/Kg
131-11-3	Dimethylphthalate	100	U	100	220	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141765.D	1	02/25/25 09:30	02/25/25 15:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	220	ug/Kg
99-09-2	3-Nitroaniline	110	U	110	220	ug/Kg
83-32-9	Acenaphthene	100	U	100	220	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	310	420	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	420	ug/Kg
132-64-9	Dibenzofuran	110	U	110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	220	ug/Kg
84-66-2	Diethylphthalate	100	U	100	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	220	ug/Kg
86-73-7	Fluorene	110	U	110	220	ug/Kg
100-01-6	4-Nitroaniline	140	U	140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	U	150	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	100	U	100	220	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	220	ug/Kg
1912-24-9	Atrazine	120	U	120	220	ug/Kg
87-86-5	Pentachlorophenol	98.5	U	98.5	420	ug/Kg
85-01-8	Phenanthrene	110	U	110	220	ug/Kg
120-12-7	Anthracene	110	U	110	220	ug/Kg
86-74-8	Carbazole	100	U	100	220	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	220	ug/Kg
206-44-0	Fluoranthene	100	U	100	220	ug/Kg
129-00-0	Pyrene	110	U	110	220	ug/Kg
85-68-7	Butylbenzylphthalate	120	UQ	120	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	130	U	130	420	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	220	ug/Kg
218-01-9	Chrysene	100	U	100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	120	U	120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	U	100	220	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141765.D	1	02/25/25 09:30	02/25/25 15:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	U	110	220	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	99.5	U	99.5	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	100	U	100	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	220	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	95.2	U	95.2	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	108		18 - 112	72%	SPK: 150
13127-88-3	Phenol-d6	104		15 - 107	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.1		18 - 107	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.0		20 - 109	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.7		10 - 116	56%	SPK: 150
1718-51-0	Terphenyl-d14	72.2		10 - 105	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	69900	6.781			
1146-65-2	Naphthalene-d8	276000	8.063			
15067-26-2	Acenaphthene-d10	147000	9.816			
1517-22-2	Phenanthrene-d10	233000	11.298			
1719-03-5	Chrysene-d12	155000	13.939			
1520-96-3	Perylene-d12	165000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	150	A		4.99	ug/Kg
000119-61-9	Benzophenone	190	J		10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		11.8	ug/Kg
959261-25-7	Pentafluoropropionic acid, octadec	240	J		13.8	ug/Kg
000301-02-0	9-Octadecenamide, (Z)-	85.8	J		14.7	ug/Kg
007683-64-9	Supraene	110	J		14.8	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141765.D	1	02/25/25 09:30	02/25/25 15:35	PB166853

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

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\BF022525\
Data File : BF141765.D
Acq On : 25 Feb 2025 15:35
Operator : RC/JU
Sample : Q1421-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Quant Time: Feb 25 15:56:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

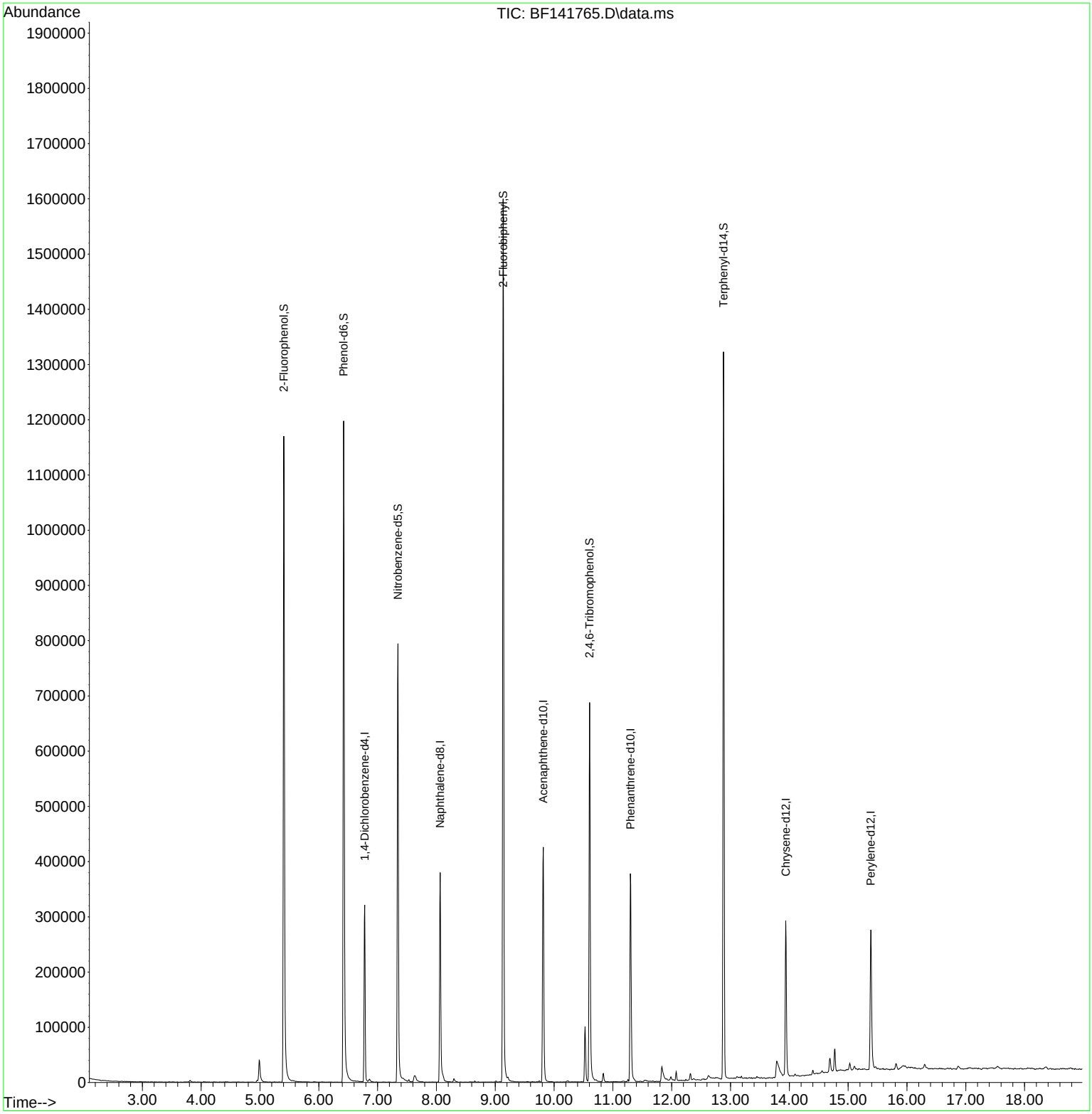
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	69940	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	276004	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	146596	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	233192	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	154690	20.000	ng	-0.02
86) Perylene-d12	15.386	264	165233	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	481259	107.877	ng	0.00
7) Phenol-d6	6.422	99	588829	104.429	ng	-0.02
23) Nitrobenzene-d5	7.345	82	381617	72.117	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	124680	84.665	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	732651	76.998	ng	-0.02
79) Terphenyl-d14	12.880	244	661408	72.181	ng	-0.02
Target Compounds						Qvalue

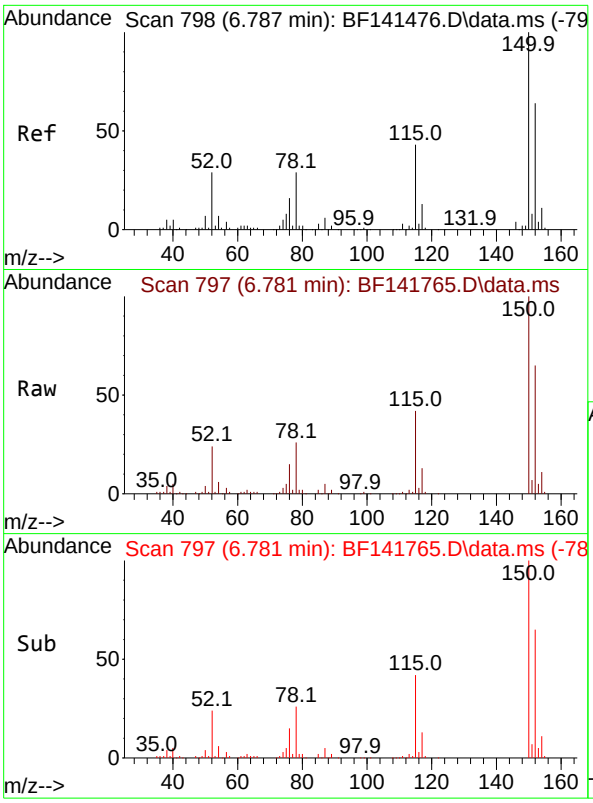
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141765.D
Acq On : 25 Feb 2025 15:35
Operator : RC/JU
Sample : Q1421-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Quant Time: Feb 25 15:56:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



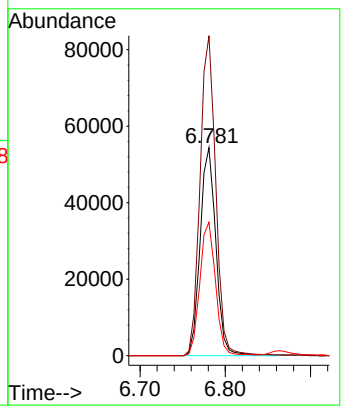


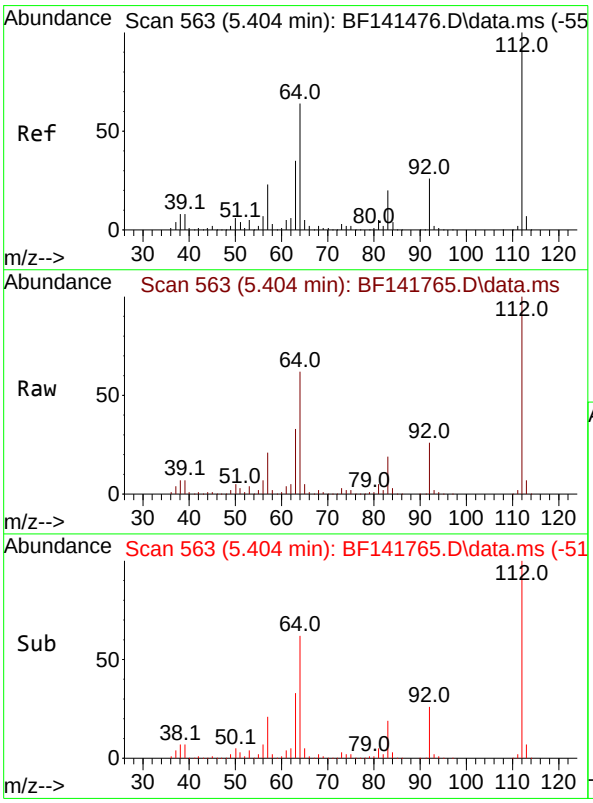
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion:152 Resp: 69940

Ion	Ratio	Lower	Upper
152	100		
150	153.8	125.0	187.4
115	64.2	53.6	80.4

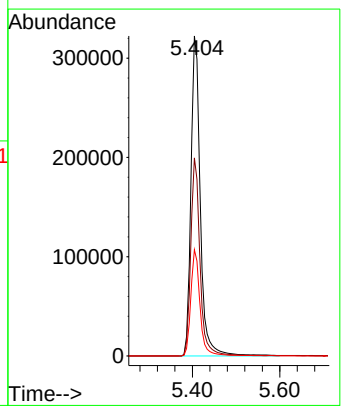


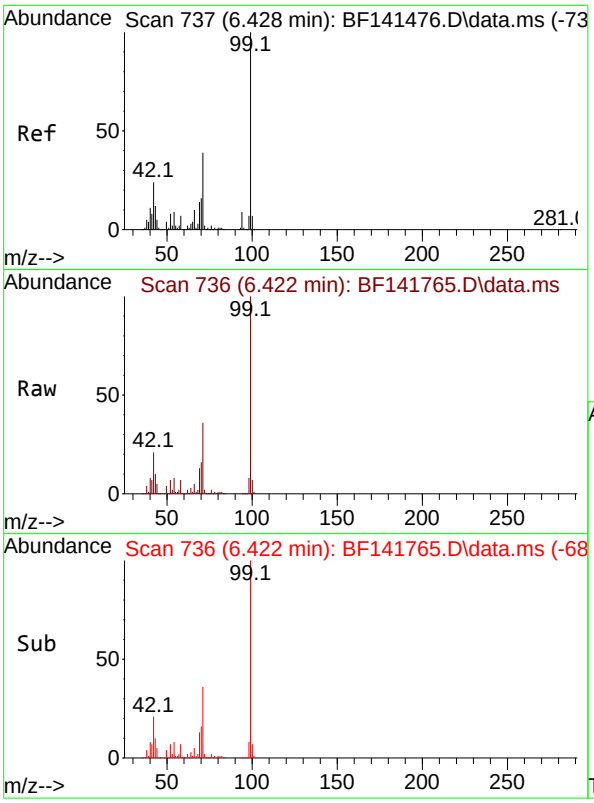


#5
2-Fluorophenol
Concen: 107.877 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Tgt Ion:112 Resp: 481259

Ion	Ratio	Lower	Upper
112	100		
64	61.9	51.1	76.7
63	33.2	28.4	42.6



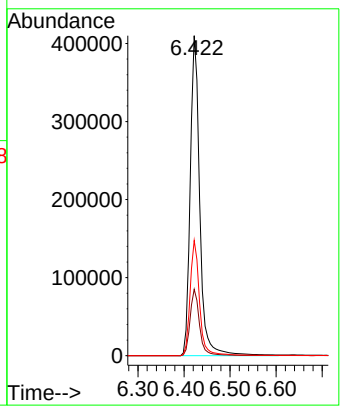


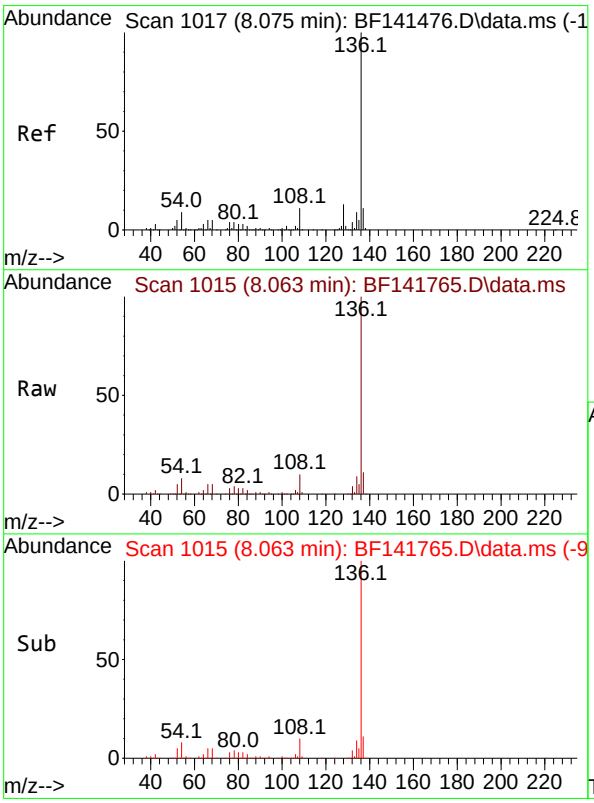
#7
Phenol-d6
Concen: 104.429 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion: 99 Resp: 588829

Ion	Ratio	Lower	Upper
99	100		
42	20.8	19.1	28.7
71	36.0	31.1	46.7

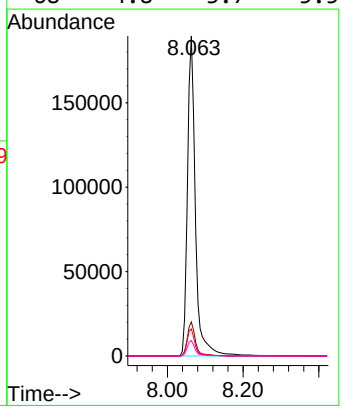


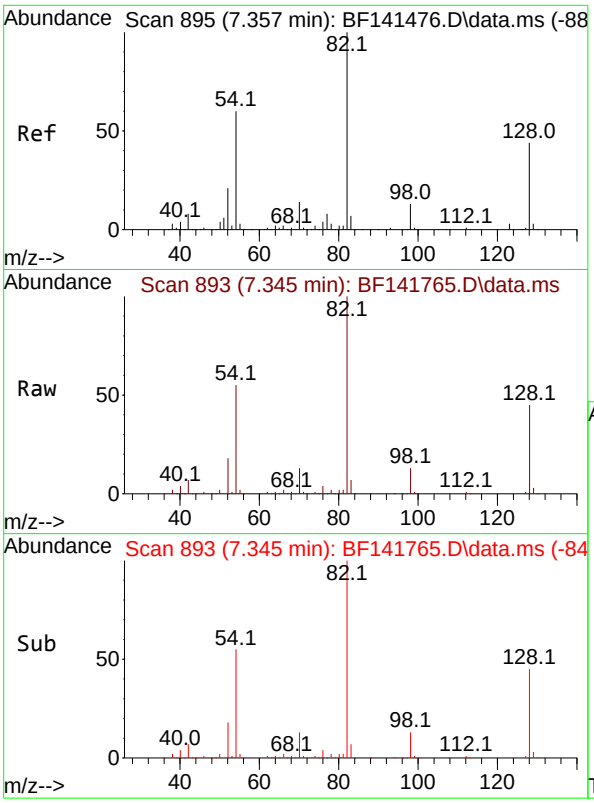


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Tgt Ion:136 Resp: 276004

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	8.4	7.2	10.8
68	4.8	3.7	5.5



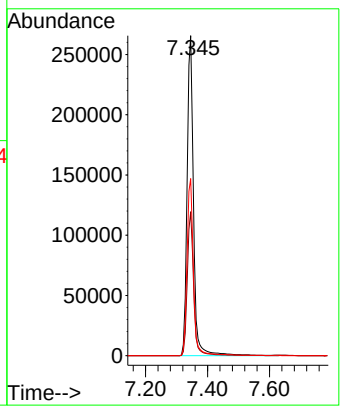


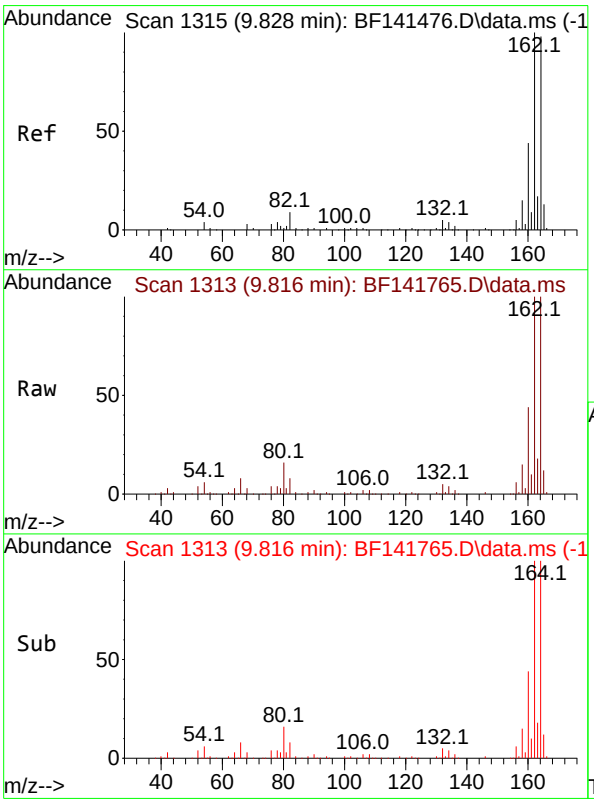
#23
Nitrobenzene-d5
Concen: 72.117 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion: 82 Resp: 381617

Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.8	52.2
54	55.4	48.2	72.4

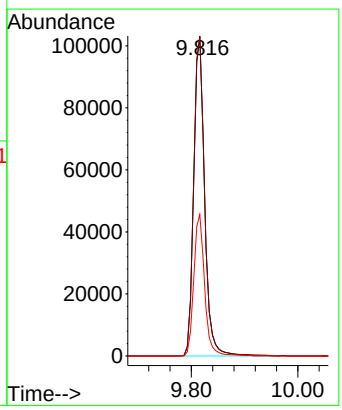


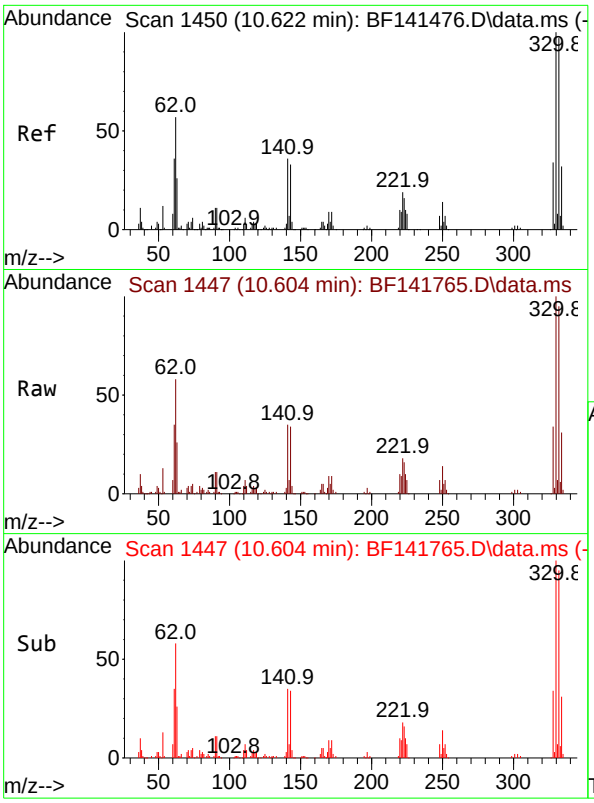


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.017 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Tgt Ion:164 Resp: 146596

Ion	Ratio	Lower	Upper
164	100		
162	100.3	81.3	121.9
160	44.3	35.9	53.9



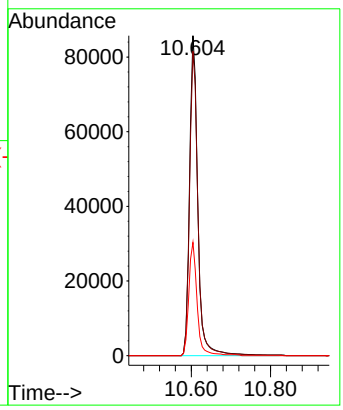


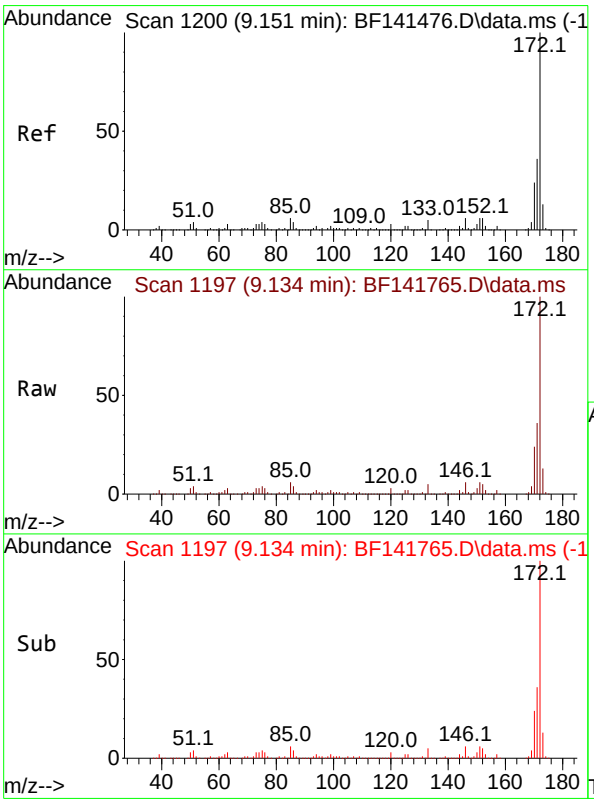
#42
2,4,6-Tribromophenol
Concen: 84.665 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion:330 Resp: 124680

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.5	117.7
141	35.4	31.0	46.4

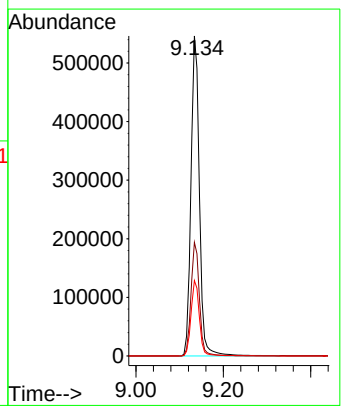


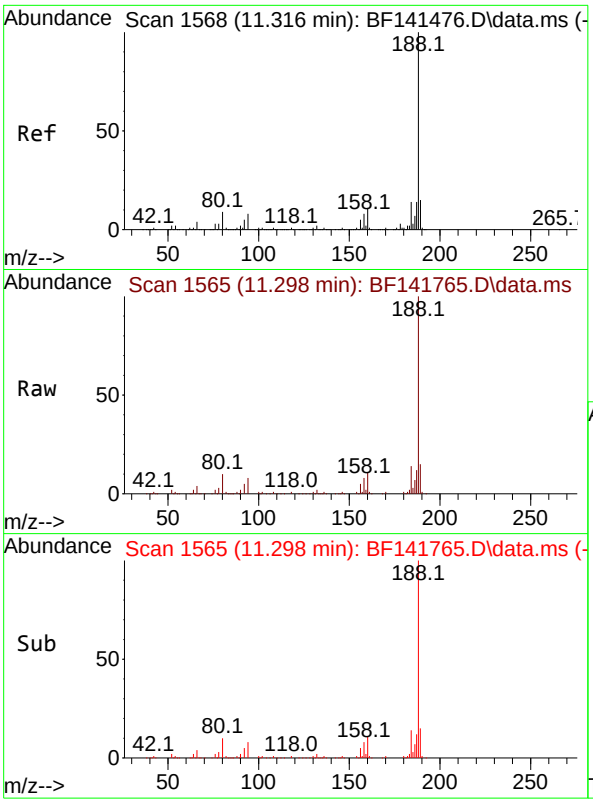


#45
2-Fluorobiphenyl
Concen: 76.998 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Tgt Ion:172 Resp: 732651

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.7	43.1
170	23.6	18.9	28.3



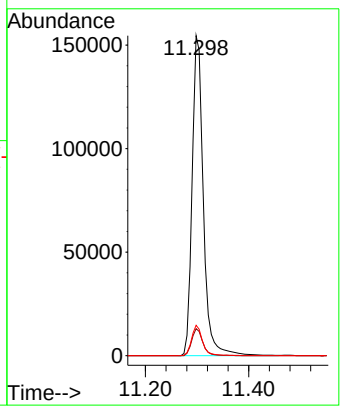


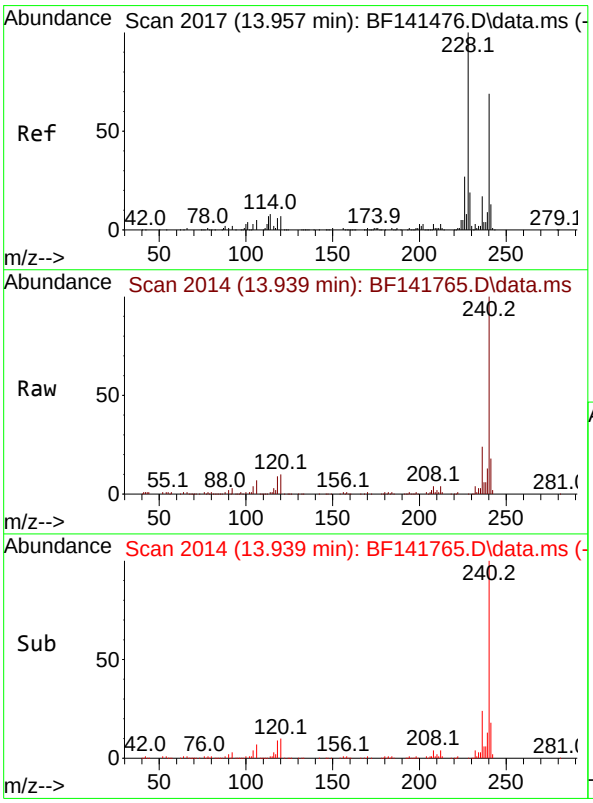
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion:188 Resp: 233192

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.5	7.3	10.9

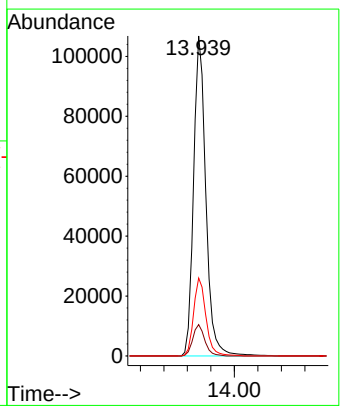


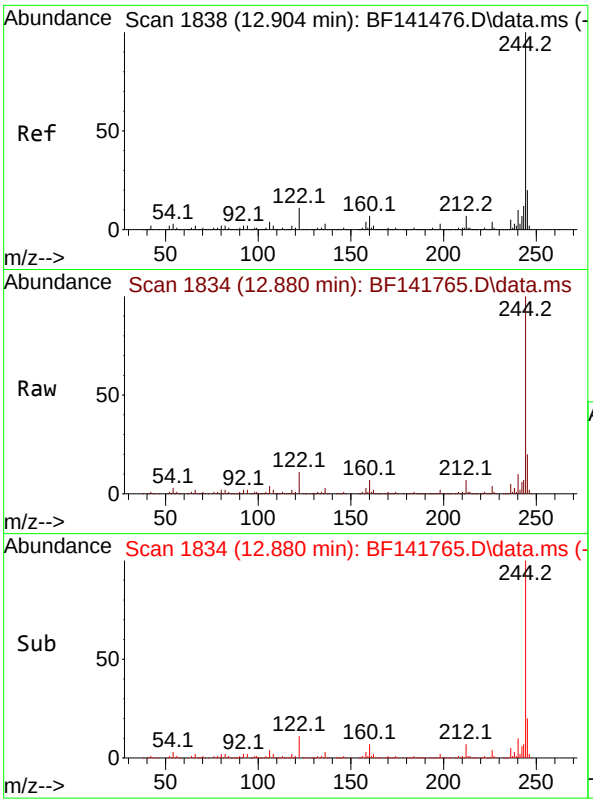


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Tgt Ion:240 Resp: 154690

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.0	12.0
236	24.3	19.8	29.8



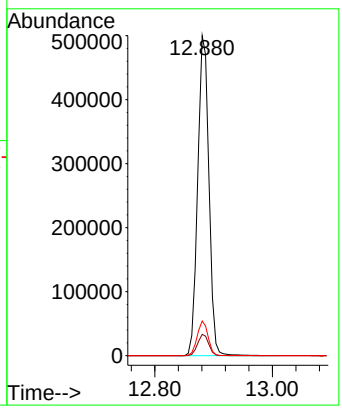


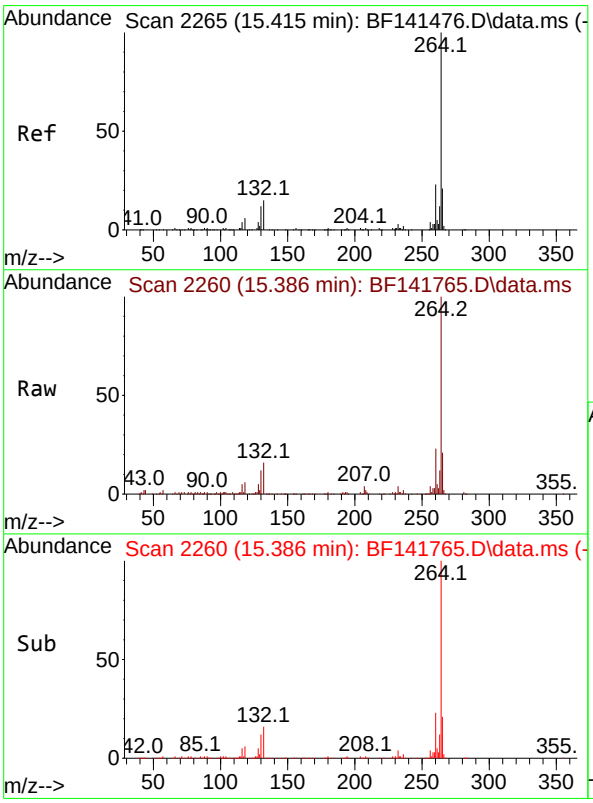
#79
Terphenyl-d14
Concen: 72.181 ng
RT: 12.880 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion:244 Resp: 661408

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.8	8.4	12.6

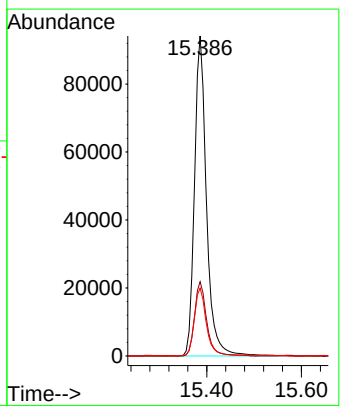




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141765.D
Acq: 25 Feb 2025 15:35

Tgt Ion:264 Resp: 165233

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.2	17.0	25.4



Sample Results: **BF141765.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141765.D
Acq On : 25 Feb 2025 15:35
Operator : RC/JU
Sample : Q1421-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141765.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.987	488	492	508	rVB	39125	71829	3.43%	0.557%
2	5.404	558	563	586	rBV	1169611	1714865	81.81%	13.302%
3	6.422	731	736	766	rBV	1197309	1736778	82.86%	13.472%
4	6.781	792	797	805	rBV	320221	409394	19.53%	3.176%
5	7.345	887	893	921	rBV	794136	1135733	54.18%	8.810%
6	7.634	935	942	960	rBV3	11180	35256	1.68%	0.273%
7	8.063	1010	1015	1040	rBV	379410	549249	26.20%	4.261%
8	9.134	1192	1197	1209	rBV	1598723	2096123	100.00%	16.260%
9	9.816	1307	1313	1330	rBV	425209	601858	28.71%	4.669%
10	10.528	1429	1434	1442	rBV	100126	135182	6.45%	1.049%
11	10.604	1442	1447	1462	rVV	685493	970814	46.31%	7.531%
12	10.839	1483	1487	1496	rVB	14844	21217	1.01%	0.165%
13	11.298	1560	1565	1581	rVB	376460	556798	26.56%	4.319%
14	11.833	1651	1656	1668	rBV3	26617	71748	3.42%	0.557%
15	12.880	1829	1834	1852	rBV	1315931	1720467	82.08%	13.346%
16	13.786	1983	1988	2005	rBV3	29164	113601	5.42%	0.881%
17	13.939	2009	2014	2025	rVB	281564	404524	19.30%	3.138%
18	14.692	2137	2142	2149	rBV2	24270	44819	2.14%	0.348%
19	14.774	2151	2156	2161	rVB	39617	57775	2.76%	0.448%
20	15.386	2254	2260	2271	rBV	253185	443457	21.16%	3.440%

Sum of corrected areas: 12891487

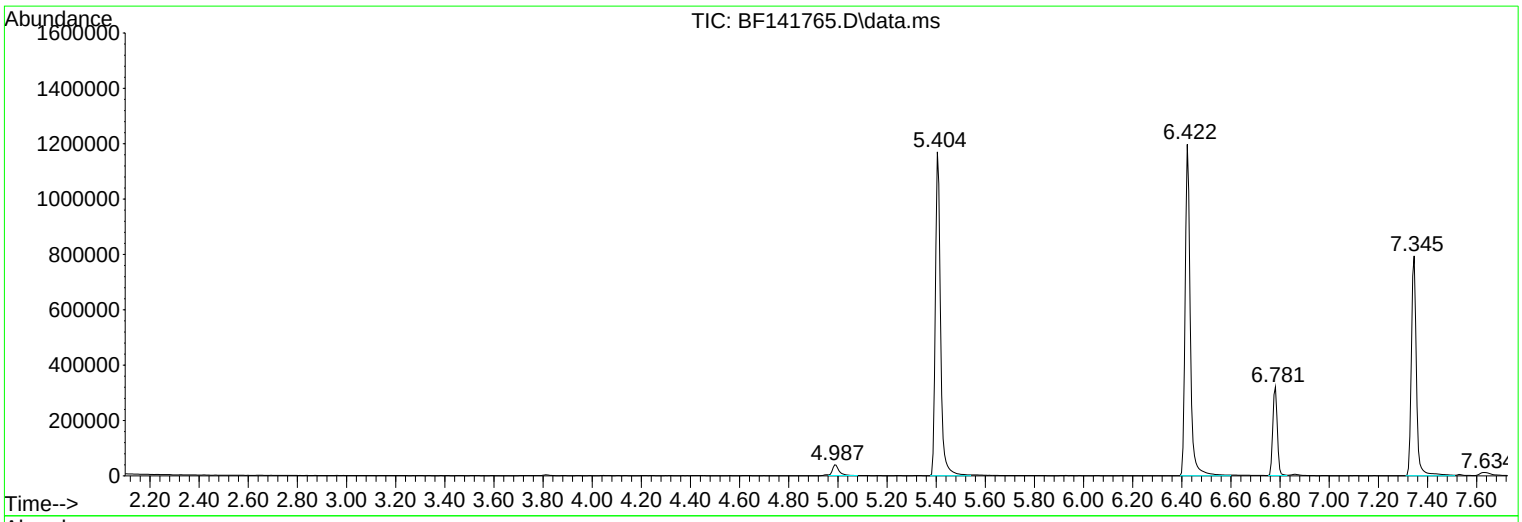
Sample Results: **BF141765.D**

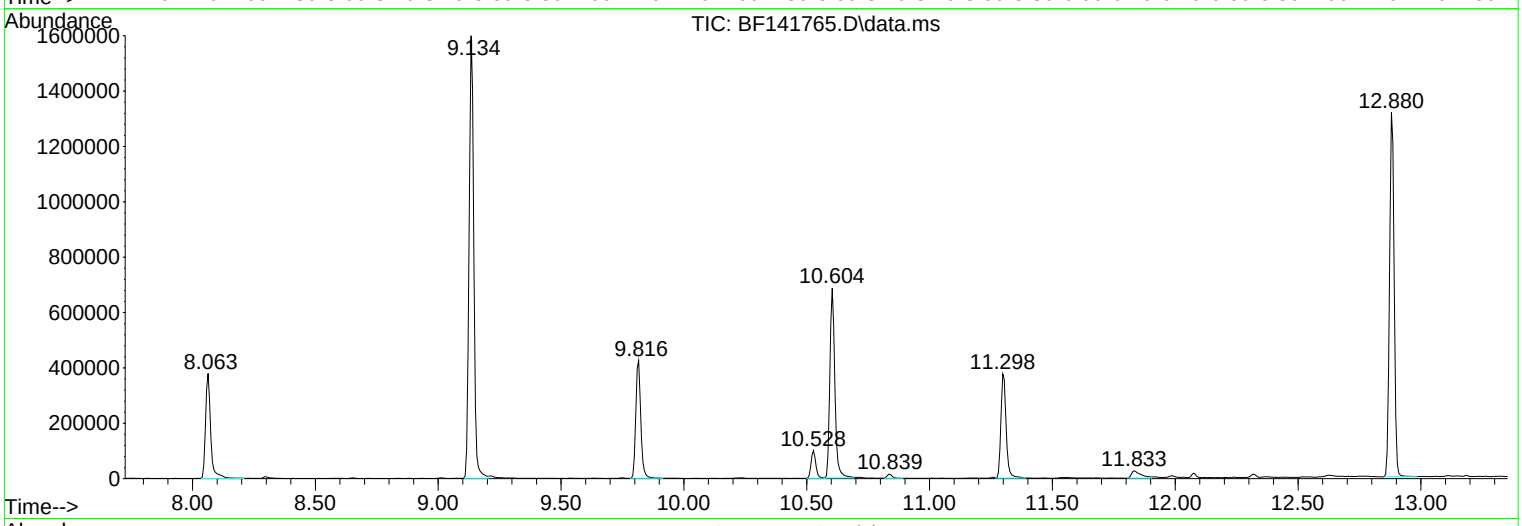
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141765.D
Acq On : 25 Feb 2025 15:35
Operator : RC/JU
Sample : Q1421-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

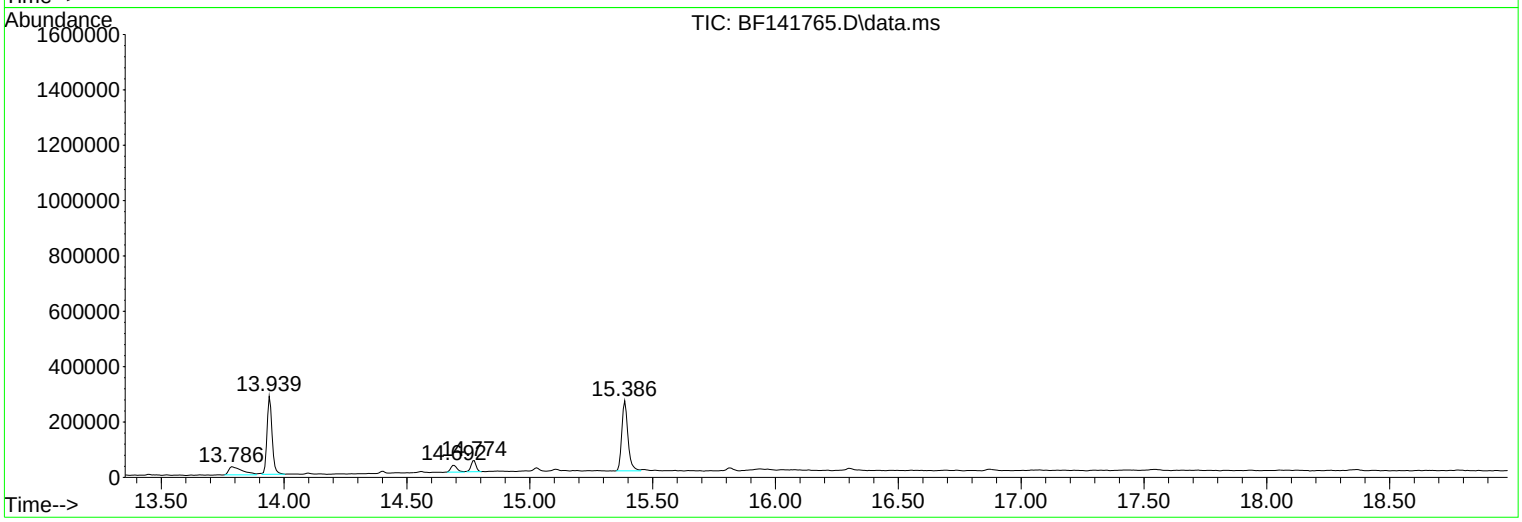
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141765.D
Acq On : 25 Feb 2025 15:35
Operator : RC/JU
Sample : Q1421-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

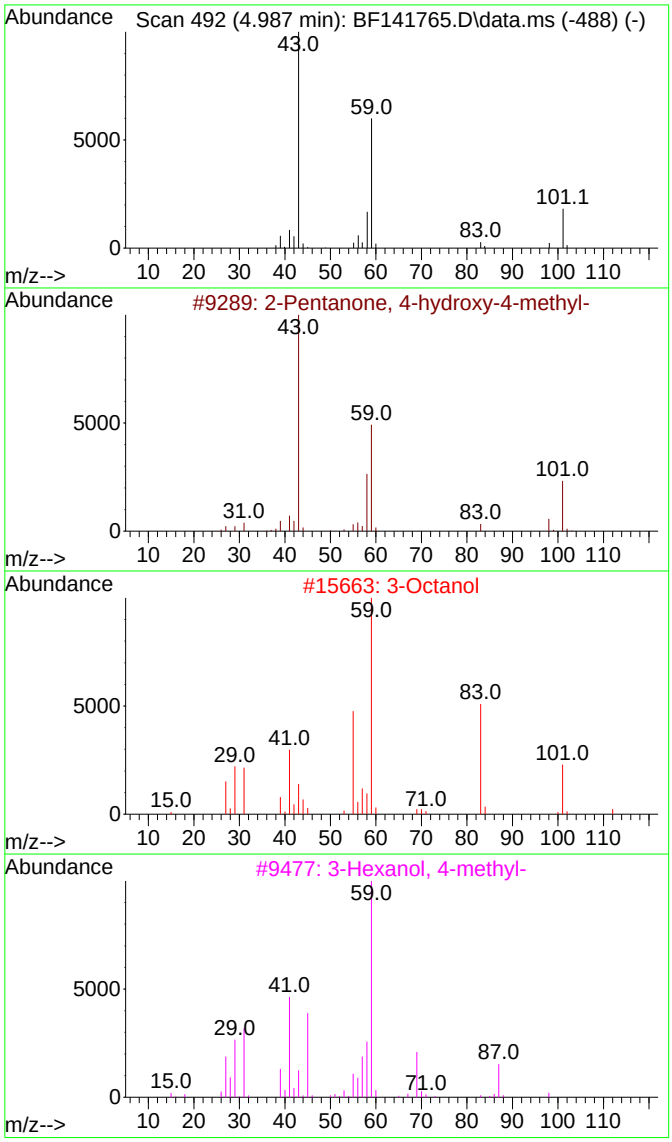
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

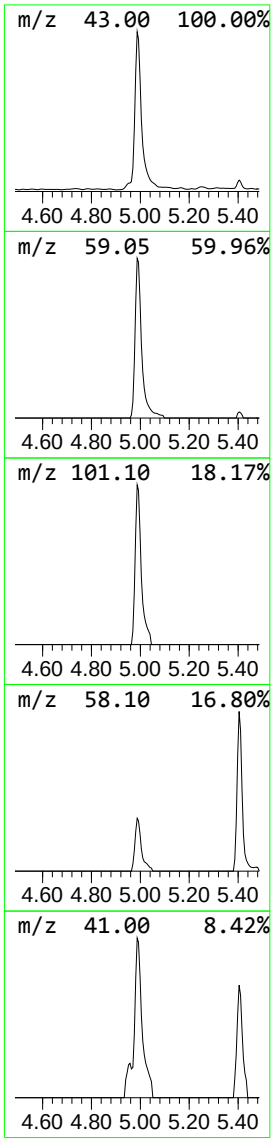
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.987	3.51 ng	71829	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	3-Octanol	130	C8H18O	000589-98-0	36
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
5	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	23





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141765.D
Acq On : 25 Feb 2025 15:35
Operator : RC/JU
Sample : Q1421-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

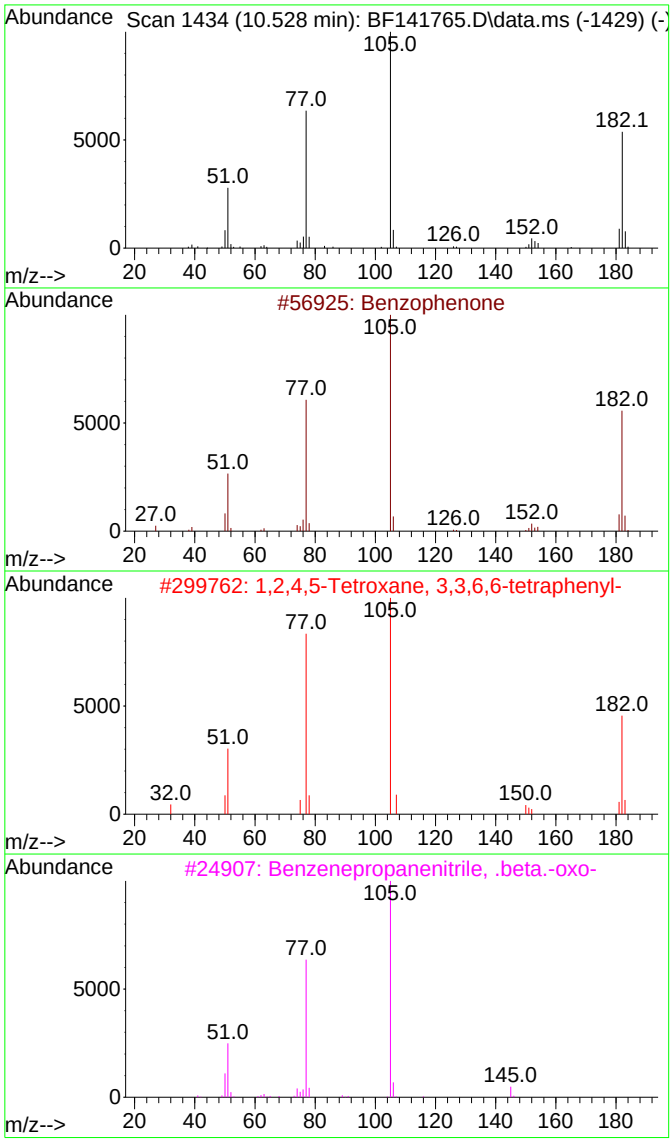
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

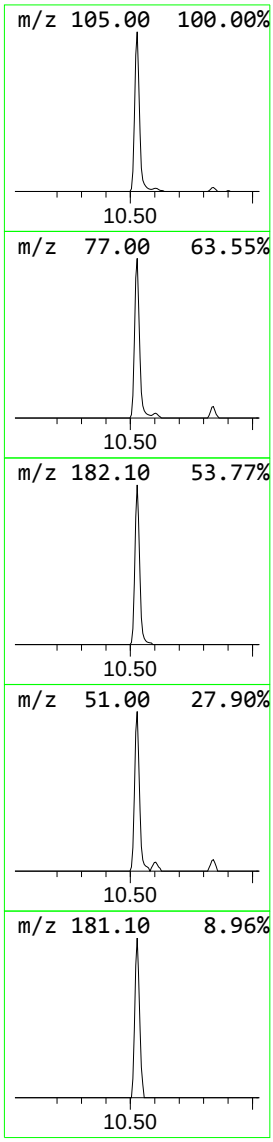
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	4.49 ng	135182	Acenaphthene-d10	9.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	1,2,4,5-Tetroxane, 3,3,6,6-tetra...	396	C26H20O4	016204-36-7	78
3	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	49
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	Vinyl benzoate	148	C9H8O2	000769-78-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141765.D
Acq On : 25 Feb 2025 15:35
Operator : RC/JU
Sample : Q1421-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

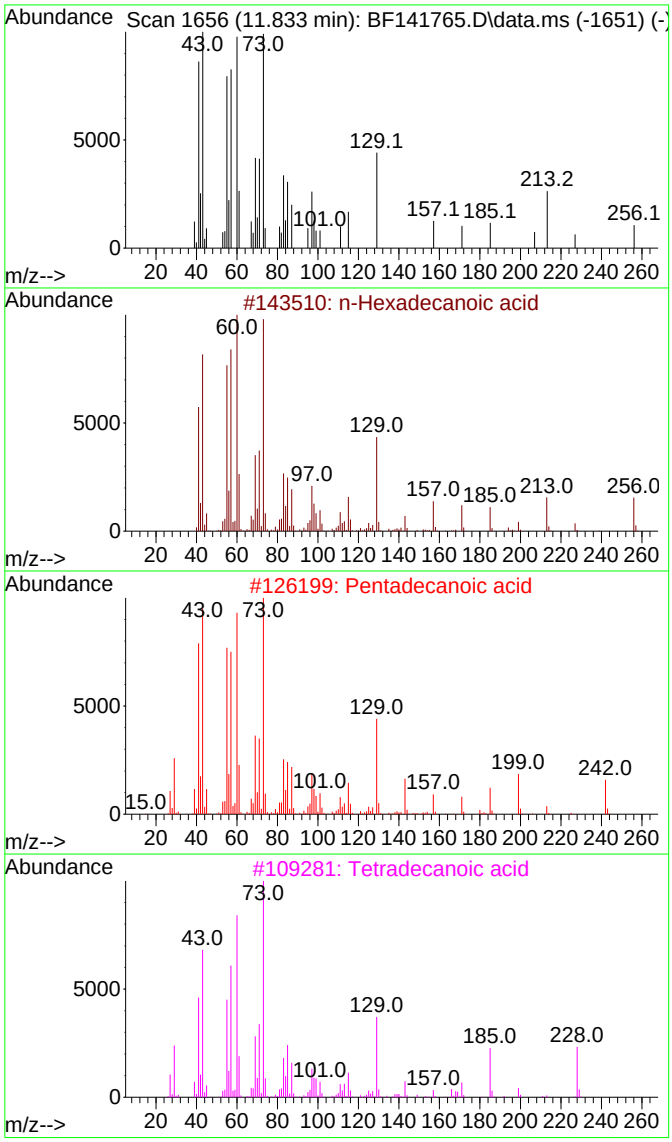
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

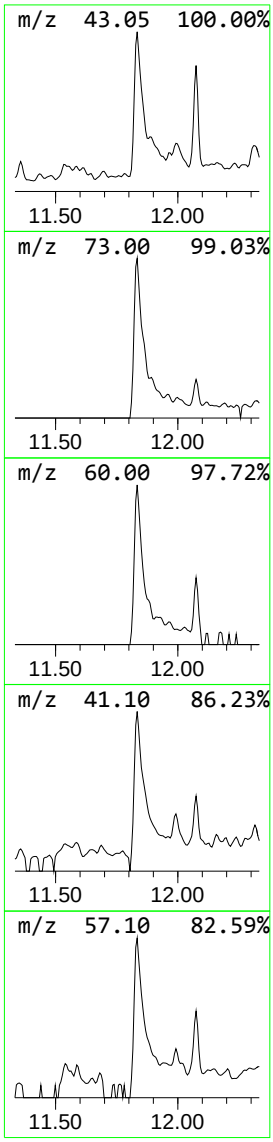
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.833	2.58 ng	71748	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	83
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
4	Undecanoic acid	186	C11H22O2	000112-37-8	64
5	Tridecanoic acid	214	C13H26O2	000638-53-9	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141765.D
Acq On : 25 Feb 2025 15:35
Operator : RC/JU
Sample : Q1421-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

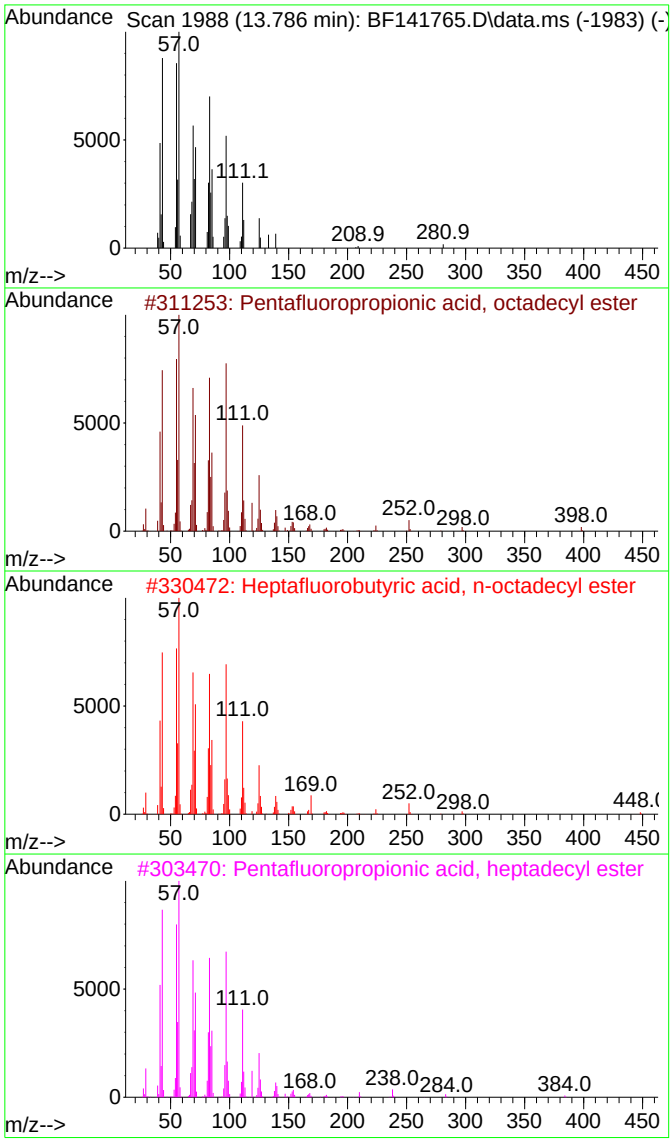
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

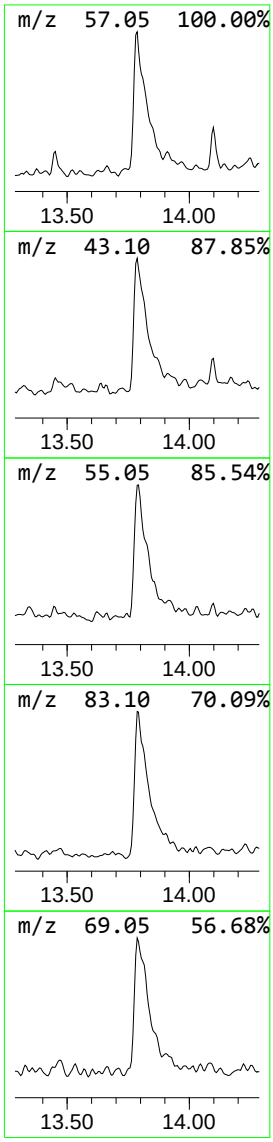
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Pentafluoropropionic acid, ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	5.62 ng	113601	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentafluoropropionic acid, octad...	416	C21H37F5O2	959261-25-7	91
2	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	91
3	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	91
4	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	91
5	2- Chloropropionic acid, hexadec...	332	C19H37ClO2	086711-81-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141765.D
Acq On : 25 Feb 2025 15:35
Operator : RC/JU
Sample : Q1421-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

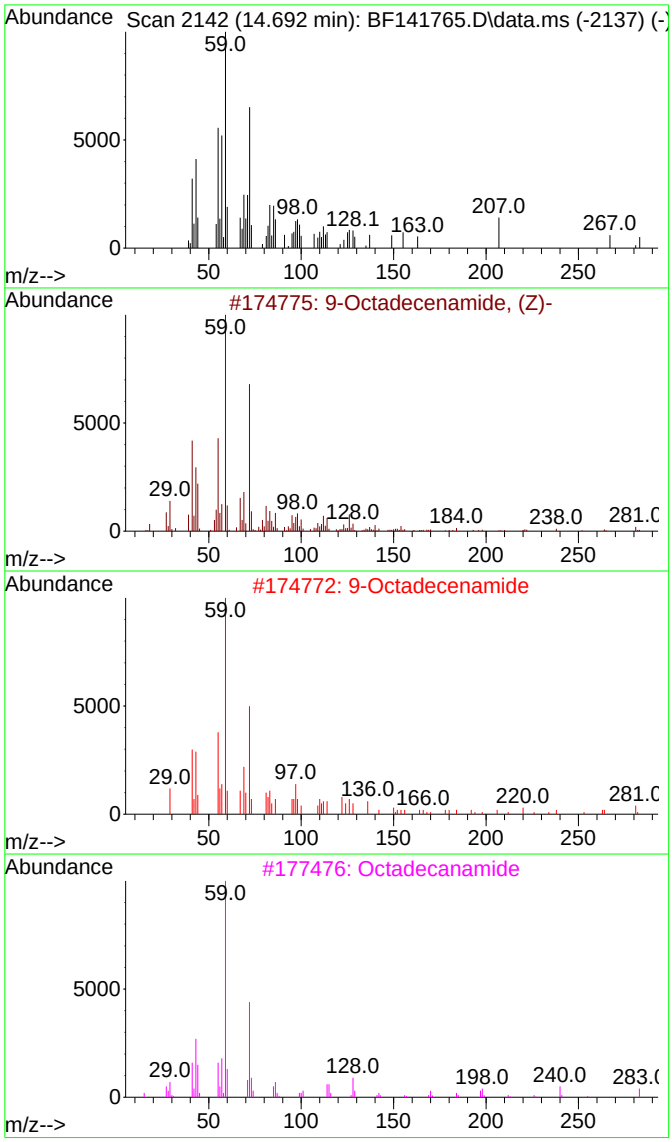
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

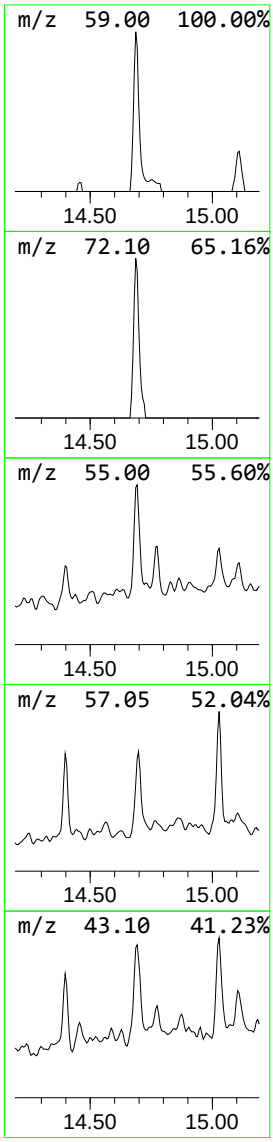
****

Peak Number 5 9-Octadecenamide, (Z)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.692	2.02 ng	44819	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	93
2	9-Octadecenamide	281	C18H35NO	003322-62-1	53
3	Octadecanamide	283	C18H37NO	000124-26-5	52
4	d-Glucosamine	179	C6H13NO5	000090-77-7	50
5	4-Pentenoic acid, methyl ester	114	C6H10O2	000818-57-5	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141765.D
Acq On : 25 Feb 2025 15:35
Operator : RC/JU
Sample : Q1421-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

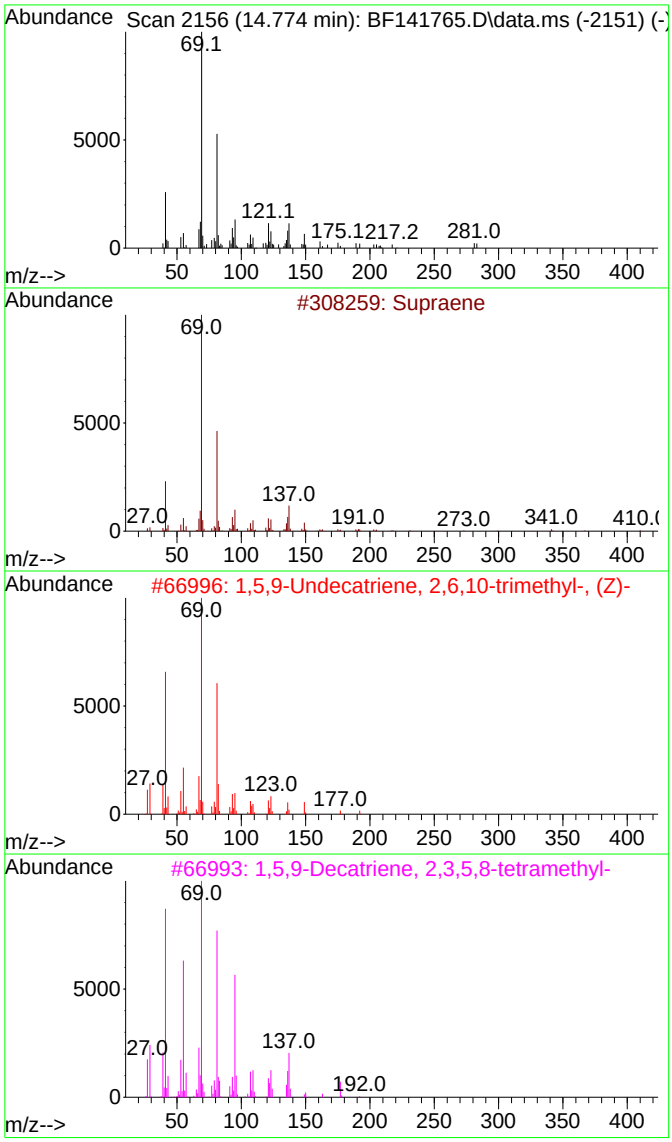
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

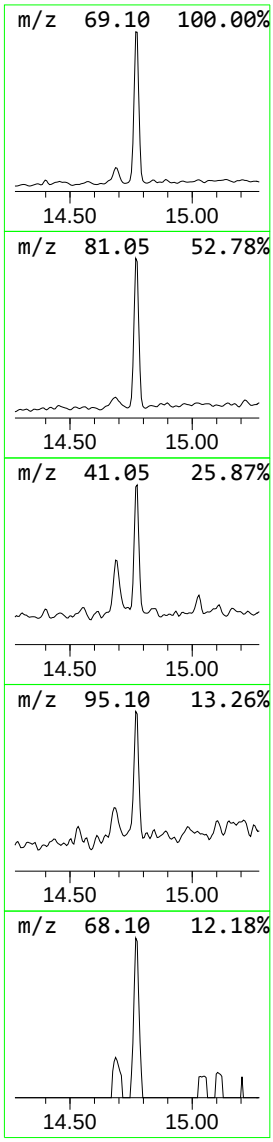
****

Peak Number 6 Supraene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.774	2.61 ng	57775	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	91
2	1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	80
3	1,5,9-Decatriene, 2,3,5,8-tetram...	192	C14H24	230646-72-7	74
4	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	64
5	3,7,11-Trimethyl-2,6,10-dodecatr...	217	C15H23N	029789-67-1	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141765.D
Acq On : 25 Feb 2025 15:35
Operator : RC/JU
Sample : Q1421-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.987	3.5	ng	71829	1	6.781	409394	20.0
Benzophenone	10.528	4.5	ng	135182	3	9.816	601858	20.0
n-Hexadecanoic ...	11.833	2.6	ng	71748	4	11.298	556798	20.0
Pentafluoroprop...	13.786	5.6	ng	113601	5	13.939	404524	20.0
9-Octadecenamid...	14.692	2.0	ng	44819	6	15.386	443457	20.0
Supraene	14.774	2.6	ng	57775	6	15.386	443457	20.0

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 16:58:59 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141472.D 5 =BF141473.D 10 =BF141474.D 20 =BF141475.D 40 =BF141476.D 50 =BF141477.D 60 =BF141478.D 80 =BF1414
79.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.511	0.519	0.523	0.517	0.502	0.521	0.501	0.513	1.73
3)		Pyridine		1.053	1.205	1.311	1.263	1.256	1.261	1.204	1.222	6.79
4)		n-Nitrosodimet...		0.737	0.774	0.820	0.818	0.835	0.846	0.833	0.809	4.83
5)	S	2-Fluorophenol		1.235	1.290	1.365	1.289	1.273	1.264	1.214	1.276	3.77
6)		Aniline		1.476	1.545	1.650	1.538	1.506	1.494	1.379	1.513	5.42
7)	S	Phenol-d6		1.619	1.629	1.704	1.613	1.599	1.585	1.538	1.612	3.13
8)		2-Chlorophenol		1.399	1.410	1.446	1.379	1.368	1.345	1.302	1.378	3.38
9)		Benzaldehyde		0.892	0.993	0.981	0.821	0.747	0.706		0.857	13.92
10)	C	Phenol		1.693	1.681	1.817	1.685	1.659	1.644	1.569	1.678	4.42
11)		bis(2-Chloroet...		1.262	1.229	1.296	1.266	1.252	1.262	1.256	1.261	1.59
12)		1,3-Dichlorobe...		1.473	1.482	1.554	1.441	1.441	1.430	1.366	1.455	3.95
13)	C	1,4-Dichlorobe...		1.546	1.538	1.571	1.471	1.465	1.439	1.379	1.487	4.59
14)		1,2-Dichlorobe...		1.393	1.439	1.473	1.374	1.351	1.345	1.285	1.380	4.55
15)		Benzyl Alcohol		1.191	1.251	1.322	1.262	1.248	1.218	1.163	1.236	4.19
16)		2,2'-oxybis(1-...		2.222	2.245	2.313	2.165	2.119	2.082	1.959	2.158	5.45
17)		2-Methylphenol		1.116	1.089	1.121	1.077	1.059	1.066	1.024	1.079	3.15
18)		Hexachloroethane		0.539	0.545	0.589	0.553	0.556	0.544	0.526	0.550	3.59
19)	P	n-Nitroso-di-n...	0.950	0.978	0.985	1.039	0.969	0.947	0.941	0.907	0.964	4.03
20)		3+4-Methylphenols		1.442	1.417	1.459	1.372	1.344	1.319	1.244	1.371	5.52
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.517	0.502	0.521	0.493	0.483	0.488	0.478	0.498	3.35
23)	S	Nitrobenzene-d5		0.380	0.379	0.396	0.385	0.378	0.381	0.384	0.383	1.58
24)		Nitrobenzene		0.370	0.371	0.383	0.374	0.369	0.375	0.376	0.374	1.29
25)		Isophorone		0.611	0.594	0.633	0.611	0.601	0.617	0.614	0.611	2.04
26)	C	2-Nitrophenol		0.171	0.175	0.190	0.193	0.190	0.193	0.191	0.186	4.91
27)		2,4-Dimethylph...		0.208	0.212	0.221	0.223	0.218	0.220	0.220	0.217	2.46
28)		bis(2-Chloroet...		0.384	0.390	0.408	0.394	0.387	0.391	0.388	0.392	2.03
29)	C	2,4-Dichloroph...		0.286	0.287	0.312	0.296	0.290	0.292	0.292	0.294	2.95
30)		1,2,4-Trichlor...		0.327	0.321	0.331	0.317	0.312	0.317	0.314	0.320	2.12
31)		Naphthalene		1.067	1.041	1.096	1.037	1.012	1.022	1.012	1.041	2.98
32)		Benzoic acid			0.186	0.217	0.229	0.233	0.243	0.246	0.226	9.70
33)		4-Chloroaniline		0.354	0.352	0.382	0.364	0.360	0.364	0.370	0.363	2.82
34)	C	Hexachlorobuta...		0.193	0.191	0.200	0.192	0.188	0.191	0.189	0.192	2.01
35)		Caprolactam		0.083	0.085	0.094	0.093	0.088	0.091	0.092	0.089	4.75
36)	C	4-Chloro-3-met...		0.310	0.324	0.342	0.329	0.324	0.325	0.324	0.325	2.91
37)		2-Methylnaphth...		0.688	0.689	0.719	0.669	0.659	0.666	0.652	0.677	3.42
38)		1-Methylnaphth...		0.680	0.657	0.691	0.656	0.637	0.640	0.631	0.656	3.40

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.582	0.588	0.600	0.584	0.560	0.574	0.562	0.579	2.50
41)	P	Hexachlorocycl...		0.138	0.180	0.204	0.205	0.214	0.214	0.192	15.36
42)	S	2,4,6-Tribromo...	0.201	0.200	0.210	0.200	0.199	0.201	0.196	0.201	2.08
43)	C	2,4,6-Trichlor...	0.364	0.365	0.389	0.377	0.373	0.378	0.372	0.374	2.28
44)		2,4,5-Trichlor...	0.385	0.407	0.430	0.410	0.394	0.409	0.401	0.405	3.51
45)	S	2-Fluorobiphenyl	1.373	1.360	1.385	1.269	1.241	1.259	1.201	1.298	5.62
46)		1,1'-Biphenyl	1.582	1.564	1.632	1.545	1.517	1.537	1.478	1.551	3.16
47)		2-Chloronaphth...	1.167	1.161	1.211	1.135	1.114	1.136	1.103	1.147	3.18
48)		2-Nitroaniline	0.371	0.371	0.394	0.390	0.382	0.401	0.385	0.385	2.92
49)		Acenaphthylene	1.739	1.736	1.791	1.696	1.660	1.689	1.626	1.705	3.21
50)		Dimethylphthalate	1.382	1.359	1.408	1.345	1.324	1.341	1.345	1.358	2.09
51)		2,6-Dinitrotol...	0.289	0.290	0.314	0.301	0.295	0.299	0.290	0.297	3.06
52)	C	Acenaphthene	1.186	1.164	1.188	1.152	1.108	1.127	1.101	1.147	3.10
53)		3-Nitroaniline	0.312	0.313	0.335	0.319	0.320	0.321	0.316	0.319	2.35
54)	P	2,4-Dinitrophenol		0.133	0.167	0.177	0.185	0.198	0.198	0.176	13.83
55)		Dibenzofuran	1.768	1.722	1.774	1.673	1.633	1.634	1.576	1.683	4.44
56)	P	4-Nitrophenol	0.190	0.216	0.247	0.249	0.249	0.257	0.251	0.237	10.43
57)		2,4-Dinitrotol...	0.383	0.403	0.414	0.398	0.390	0.396	0.383	0.395	2.83
58)		Fluorene	1.359	1.361	1.377	1.290	1.239	1.263	1.221	1.301	4.90
59)		2,3,4,6-Tetrac...	0.332	0.361	0.359	0.348	0.348	0.355	0.340	0.349	2.95
60)		Diethylphthalate	1.400	1.346	1.398	1.330	1.300	1.308	1.269	1.336	3.71
61)		4-Chlorophenyl...	0.661	0.643	0.659	0.622	0.602	0.611	0.585	0.626	4.66
62)		4-Nitroaniline	0.315	0.319	0.333	0.335	0.319	0.327	0.324	0.324	2.28
63)		Azobenzene	1.348	1.329	1.385	1.326	1.295	1.320	1.294	1.328	2.38
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.116	0.140	0.142	0.142	0.146	0.148	0.139	8.48
66)	c	n-Nitrosodiphe...	0.650	0.653	0.674	0.627	0.625	0.625	0.627	0.640	2.97
67)		4-Bromophenyl-...	0.228	0.220	0.234	0.221	0.220	0.221	0.221	0.224	2.46
68)		Hexachlorobenzene	0.229	0.234	0.241	0.227	0.224	0.228	0.228	0.230	2.46
69)		Atrazine	0.200	0.203	0.214	0.185	0.185	0.182	0.176	0.192	7.12
70)	C	Pentachlorophenol	0.116	0.131	0.151	0.154	0.158	0.159	0.160	0.147	11.68
71)		Phenanthrene	1.141	1.132	1.161	1.084	1.071	1.069	1.049	1.101	3.91
72)		Anthracene	1.168	1.126	1.158	1.082	1.084	1.071	1.057	1.107	3.99
73)		Carbazole	1.022	1.026	1.076	0.986	0.966	0.961	0.933	0.996	4.87
74)		Di-n-butylphth...	1.165	1.156	1.223	1.141	1.132	1.126	1.105	1.150	3.29
75)	C	Fluoranthene	1.251	1.239	1.243	1.151	1.129	1.091	1.065	1.167	6.63
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.474	0.487	0.334	0.528	0.432	0.351	0.481	0.441	16.58
78)		Pyrene	1.528	1.557	1.717	1.745	1.774	1.807	1.789	1.703	6.67
79)	S	Terphenyl-d14	1.129	1.104	1.211	1.198	1.209	1.234	1.208	1.185	4.07
80)		Butylbenzylpht...	0.525	0.540	0.605	0.609	0.603	0.623	0.624	0.590	6.83
81)		Benzo(a)anthra...	1.381	1.332	1.350	1.345	1.309	1.309	1.279	1.329	2.51
82)		3,3'-Dichlorob...	0.397	0.411	0.407	0.377	0.363	0.353	0.358	0.381	6.31
83)		Chrysene	1.187	1.223	1.314	1.201	1.215	1.224	1.229	1.228	3.34
84)		Bis(2-ethylhex...	0.593	0.610	0.685	0.689	0.680	0.697	0.702	0.665	6.68
85)	c	Di-n-octyl pht...	0.802	0.814	0.910	0.965	1.010	1.051	1.090	0.949	11.82

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	0.987	1.029	1.186	1.288	1.341	1.410	1.408	1.236	14.06
88)		Benzo(b)fluora...	1.286	1.407	1.398	1.336	1.350	1.356	1.268	1.343	3.88
89)		Benzo(k)fluora...	1.113	1.216	1.247	1.142	1.074	1.098	1.138	1.147	5.49
90)	C	Benzo(a)pyrene	1.085	1.074	1.115	1.080	1.069	1.094	1.089	1.087	1.41
91)		Dibenzo(a,h)an...	0.796	0.828	0.970	1.051	1.092	1.138	1.134	1.001	14.13
92)		Benzo(g,h,i)pe...	0.805	0.864	1.001	1.100	1.144	1.203	1.218	1.048	15.60

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141472.D
Acq On : 06 Feb 2025 11:07
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Feb 06 16:00:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

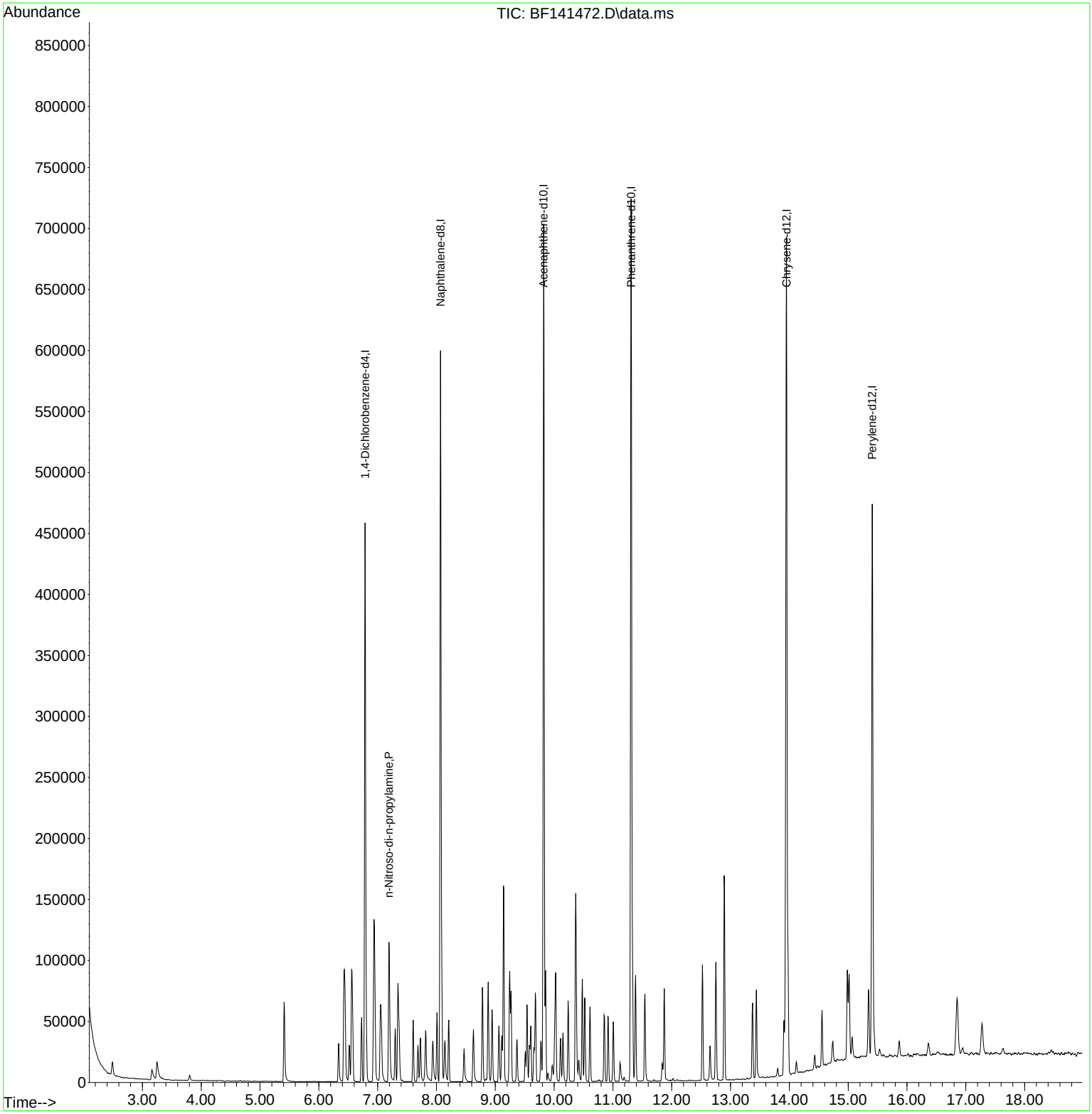
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	91402	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	372084	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	206500	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	361595	20.000	ng	0.00
76) Chrysene-d12	13.951	240	309941	20.000	ng	-0.01
86) Perylene-d12	15.410	264	259363	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.192	70	10850	2.462	ng	92

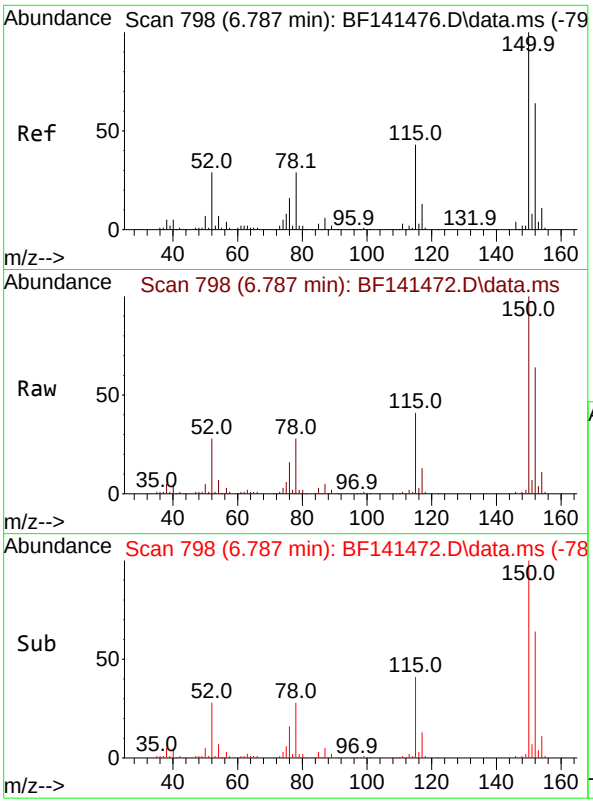
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141472.D
Acq On : 06 Feb 2025 11:07
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Feb 06 16:00:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



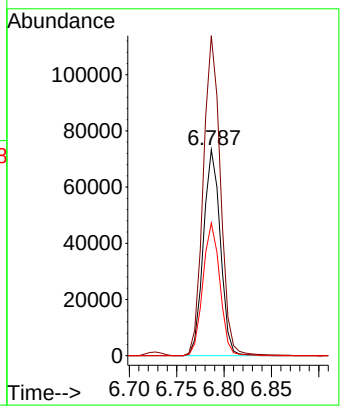


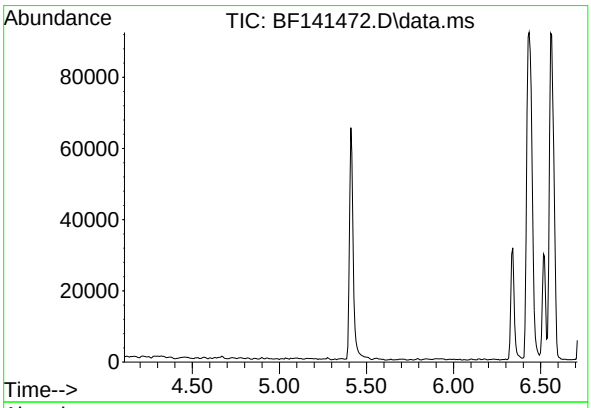
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 91402

Ion	Ratio	Lower	Upper
152	100		
150	155.4	125.0	187.4
115	64.4	53.6	80.4



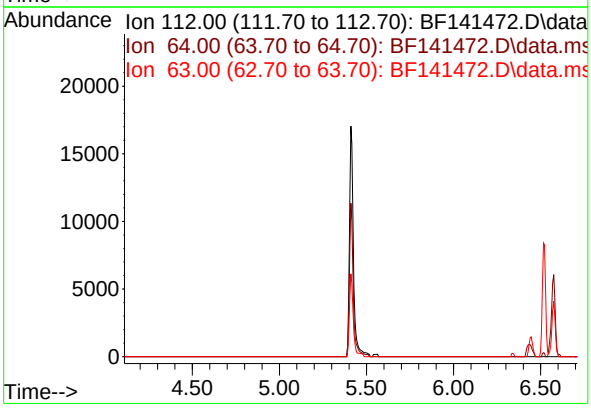


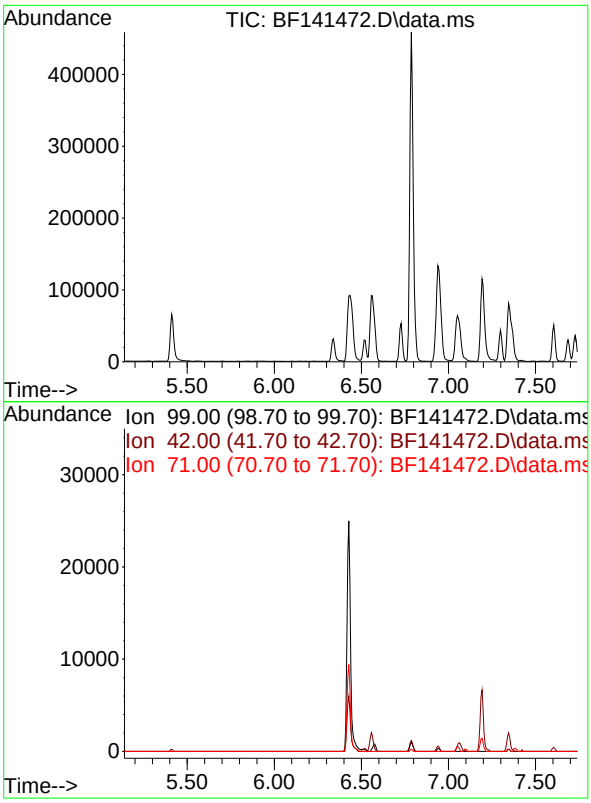
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.41 min

Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	63.9
63	35.5





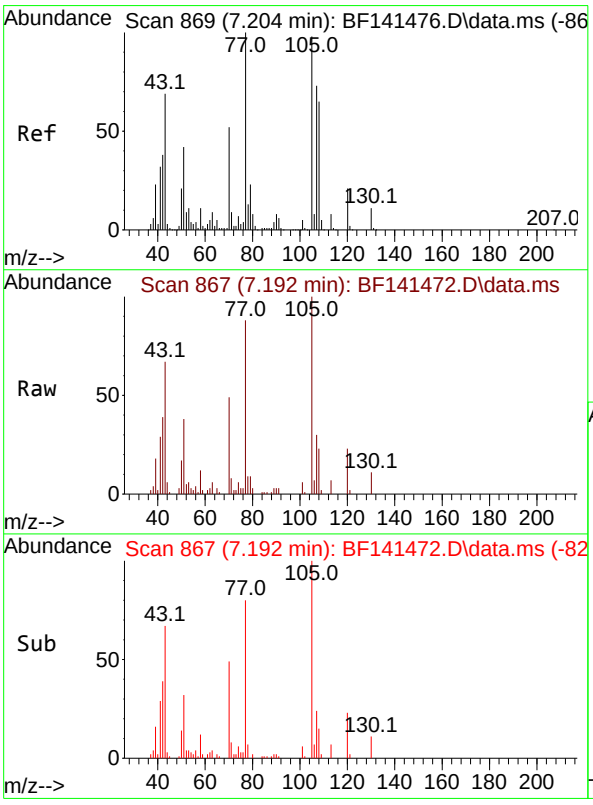
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.44 min

Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

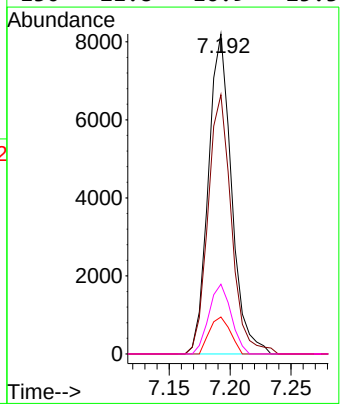
Sig	Exp Ratio
99	100
42	23.9
71	38.9

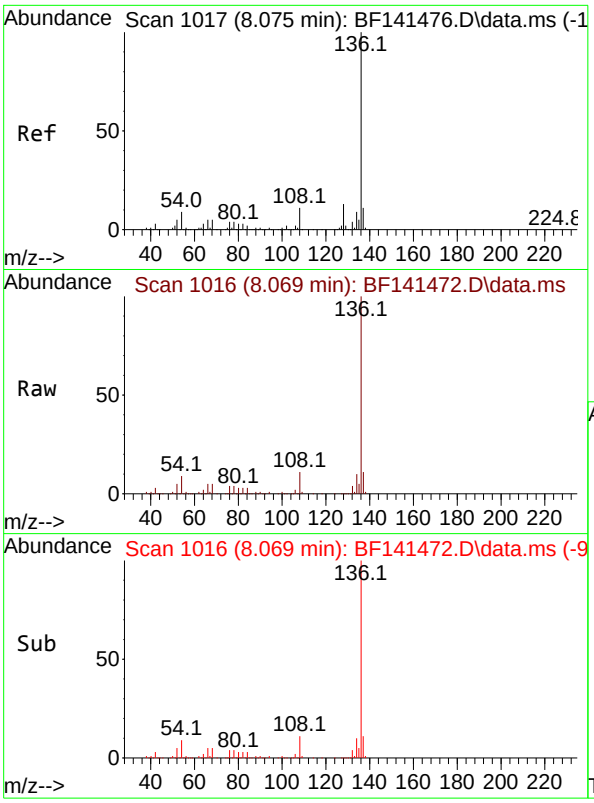


#19
n-Nitroso-di-n-propylamine
Concen: 2.462 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.023 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Tgt Ion: 70 Resp: 10850

Ion	Ratio	Lower	Upper
70	100		
42	81.0	57.4	86.2
101	11.5	8.0	12.0
130	21.8	16.9	25.3



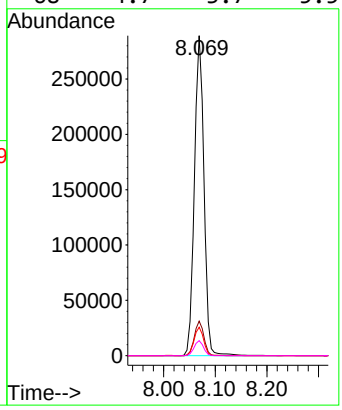


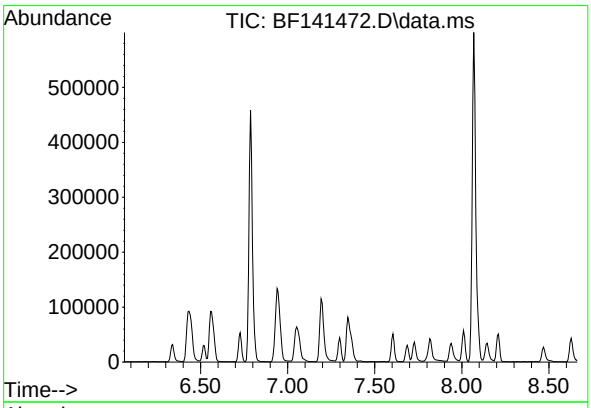
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 372084

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.9	7.2	10.8
68	4.7	3.7	5.5



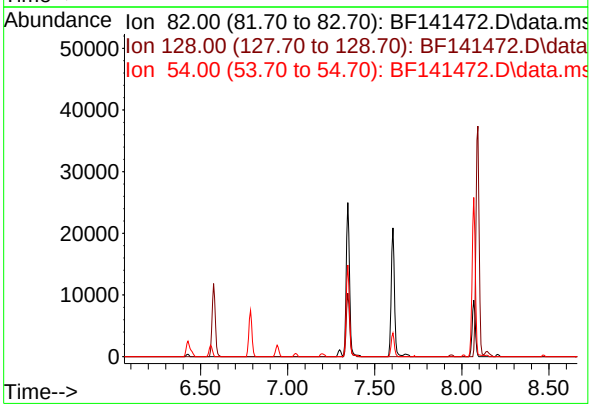


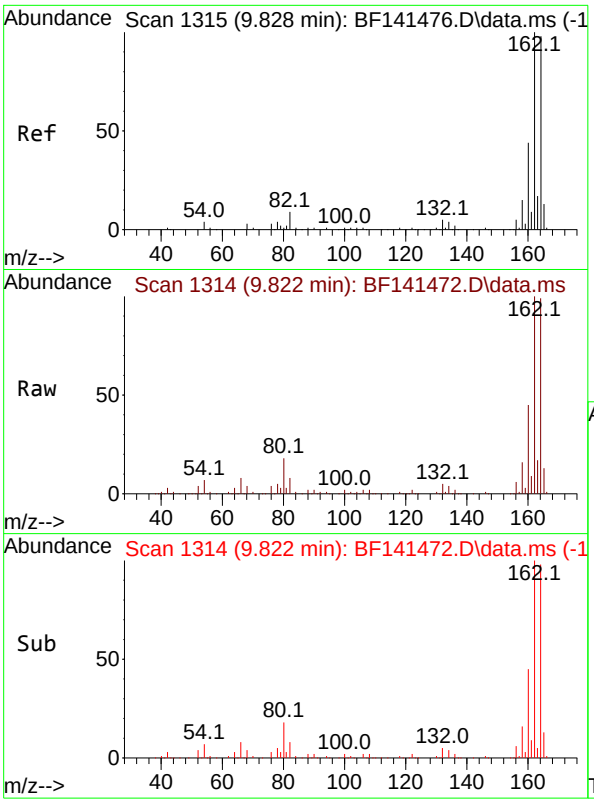
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.36 min

Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	43.5
54	60.3



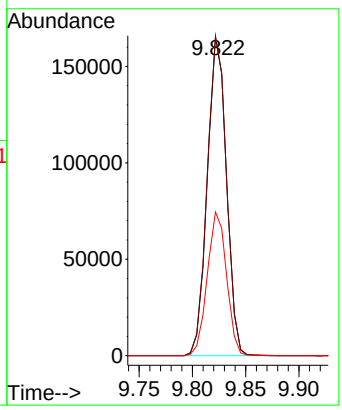


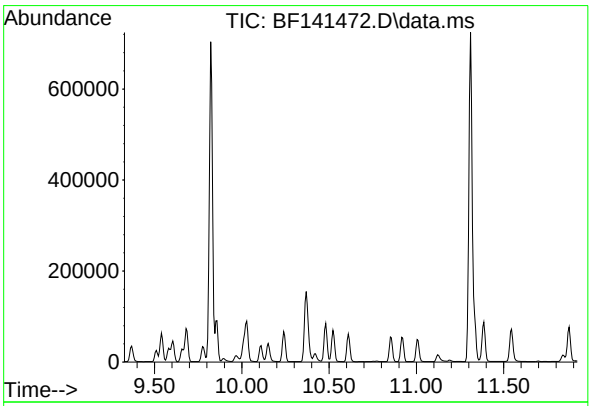
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 206500

Ion	Ratio	Lower	Upper
164	100		
162	100.5	81.3	121.9
160	45.1	35.9	53.9



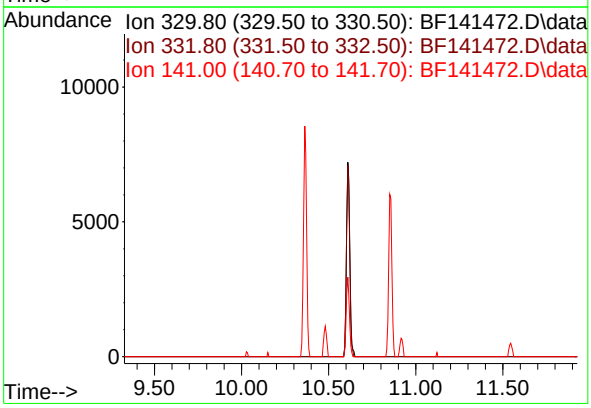


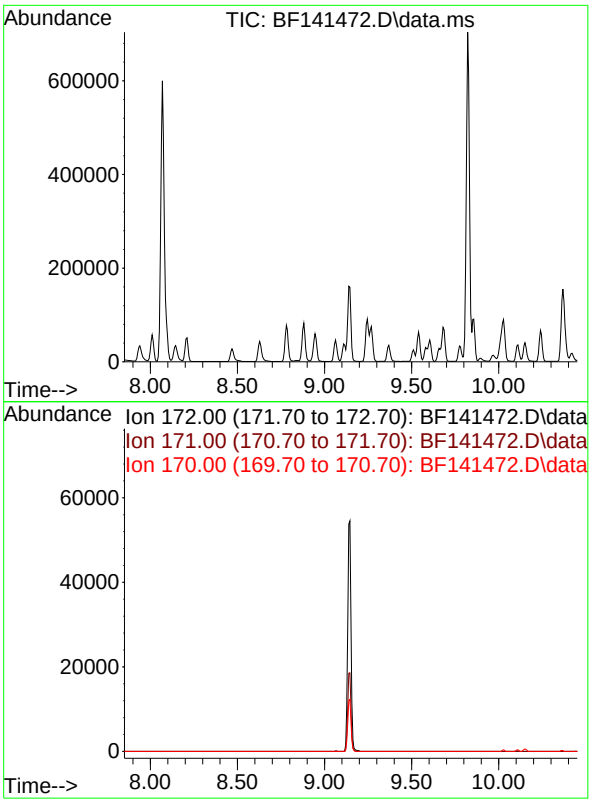
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.63 min

Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	98.1
141	38.7





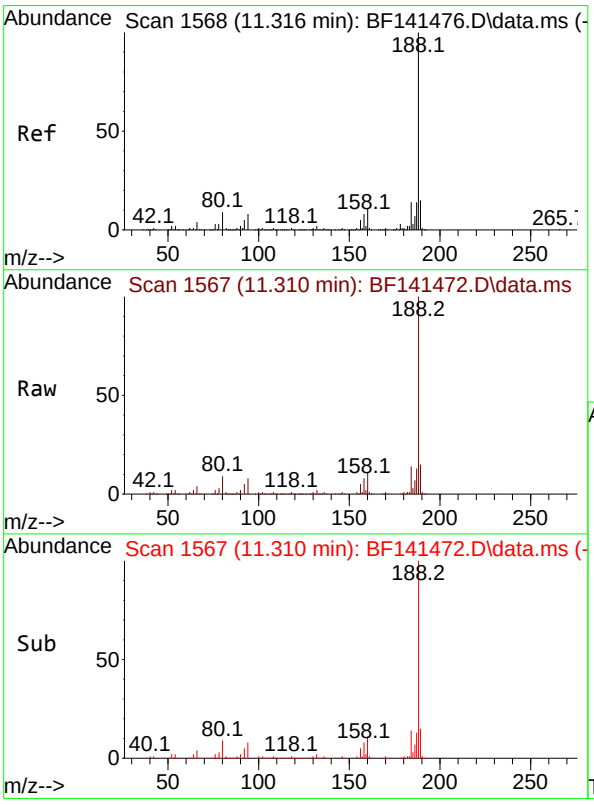
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.15 min

Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

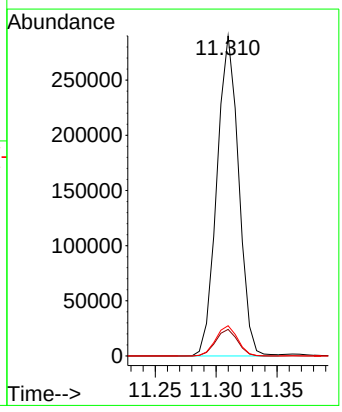
Sig	Exp Ratio
172	100
171	35.9
170	23.6

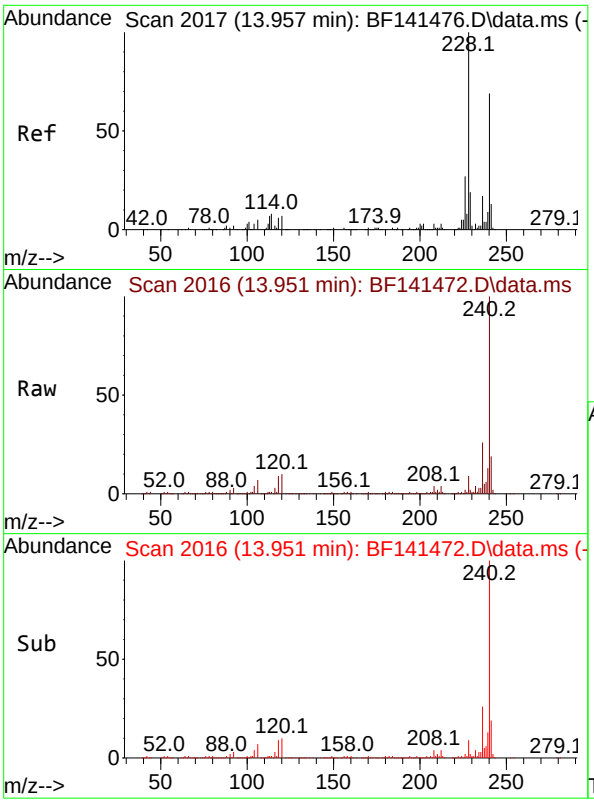


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Tgt Ion:188 Resp: 361595

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.5	7.3	10.9



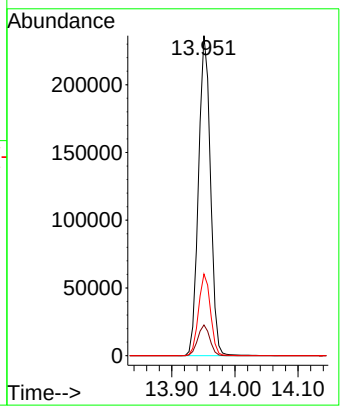


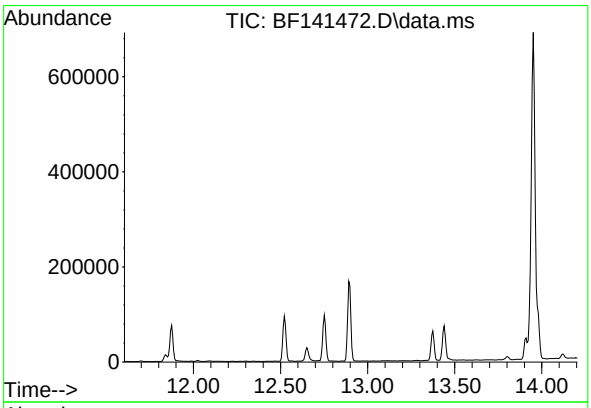
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 309941

Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.0	12.0
236	25.5	19.8	29.8



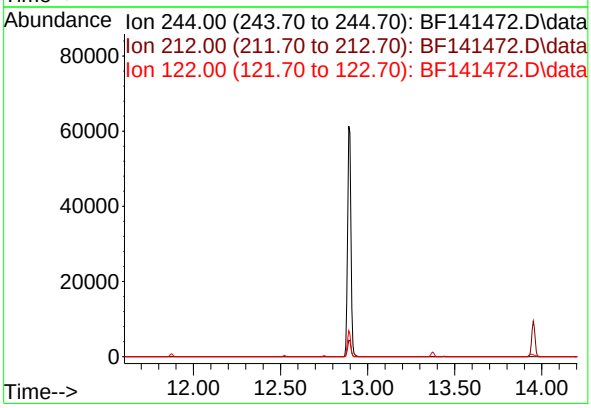


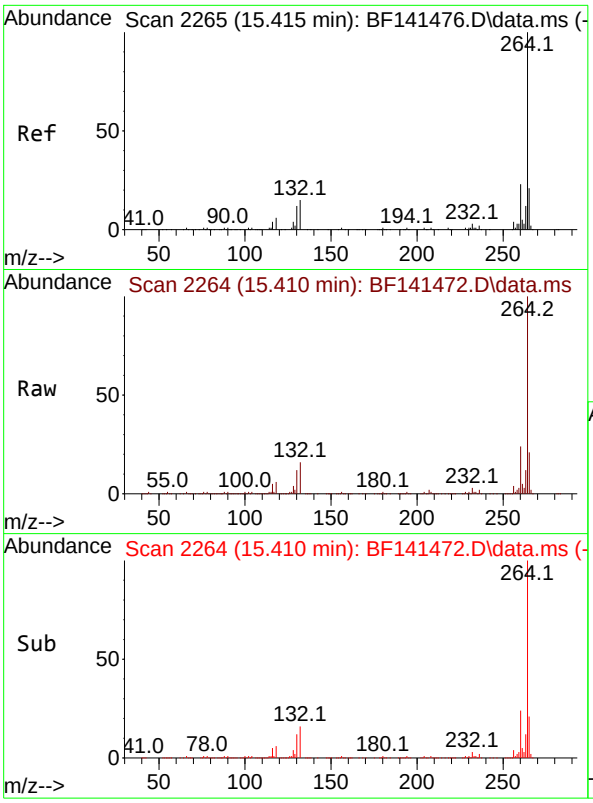
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.90 min

Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.0
122	10.5



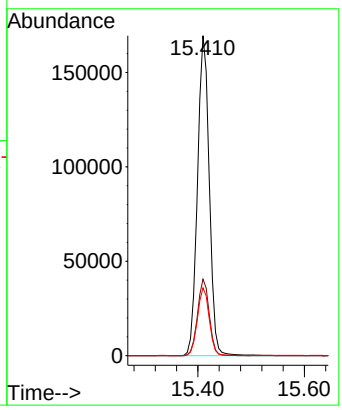


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 259363

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.6	28.0
265	21.2	17.0	25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141473.D
Acq On : 06 Feb 2025 11:34
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Feb 06 16:00:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	89396	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	358966	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	199514	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	351213	20.000	ng		0.00
76) Chrysene-d12	13.951	240	295087	20.000	ng		-0.01
86) Perylene-d12	15.410	264	233325	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	55200	9.680	ng		0.00
7) Phenol-d6	6.422	99	72376	10.042	ng		-0.02
23) Nitrobenzene-d5	7.345	82	68257	9.918	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	20060	10.009	ng		-0.02
45) 2-Fluorobiphenyl	9.145	172	136925	10.573	ng		0.00
79) Terphenyl-d14	12.892	244	166601	9.531	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.487	88	11419	4.976	ng		95
3) Pyridine	3.228	79	23540	4.310	ng		97
4) n-Nitrosodimethylamine	3.152	42	16481	4.558	ng	#	96
6) Aniline	6.445	93	32993	4.880	ng		97
8) 2-Chlorophenol	6.575	128	31263	5.074	ng		99
9) Benzaldehyde	6.334	77	19944	5.207	ng		94
10) Phenol	6.440	94	37833	5.044	ng		97
11) bis(2-Chloroethyl)ether	6.522	93	28203	5.006	ng		97
12) 1,3-Dichlorobenzene	6.728	146	32913	5.060	ng		99
13) 1,4-Dichlorobenzene	6.804	146	34555	5.199	ng		97
14) 1,2-Dichlorobenzene	6.957	146	31141	5.049	ng		96
15) Benzyl Alcohol	6.928	79	26612	4.815	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.063	45	49667	5.150	ng		99
17) 2-Methylphenol	7.045	107	24939	5.173	ng		96
18) Hexachloroethane	7.298	117	12043	4.896	ng		98
19) n-Nitroso-di-n-propyla...	7.192	70	21865	5.072	ng		97
20) 3+4-Methylphenols	7.198	107	32221	5.258	ng		94
22) Acetophenone	7.192	105	46441	5.201	ng		95
24) Nitrobenzene	7.363	77	33173	4.943	ng		99
25) Isophorone	7.604	82	54796	4.993	ng		99
26) 2-Nitrophenol	7.687	139	15331	4.592	ng		97
27) 2,4-Dimethylphenol	7.728	122	18659	4.784	ng		99
28) bis(2-Chloroethoxy)met...	7.816	93	34469	4.902	ng		100
29) 2,4-Dichlorophenol	7.934	162	25667	4.870	ng		97
30) 1,2,4-Trichlorobenzene	8.010	180	29321	5.109	ng		96
31) Naphthalene	8.092	128	95730	5.123	ng		99
33) 4-Chloroaniline	8.145	127	31729	4.864	ng		98
34) Hexachlorobutadiene	8.210	225	17323	5.028	ng		98
35) Caprolactam	8.475	113	7437	4.635	ng		94
36) 4-Chloro-3-methylphenol	8.628	107	27818	4.765	ng		98
37) 2-Methylnaphthalene	8.781	142	61742	5.078	ng		97
38) 1-Methylnaphthalene	8.881	142	61026	5.182	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	29023	5.028	ng		98
43) 2,4,6-Trichlorophenol	9.063	196	18144	4.863	ng		99
44) 2,4,5-Trichlorophenol	9.110	196	19204	4.750	ng		98
46) 1,1'-Biphenyl	9.245	154	78931	5.103	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141473.D
Acq On : 06 Feb 2025 11:34
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Feb 06 16:00:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

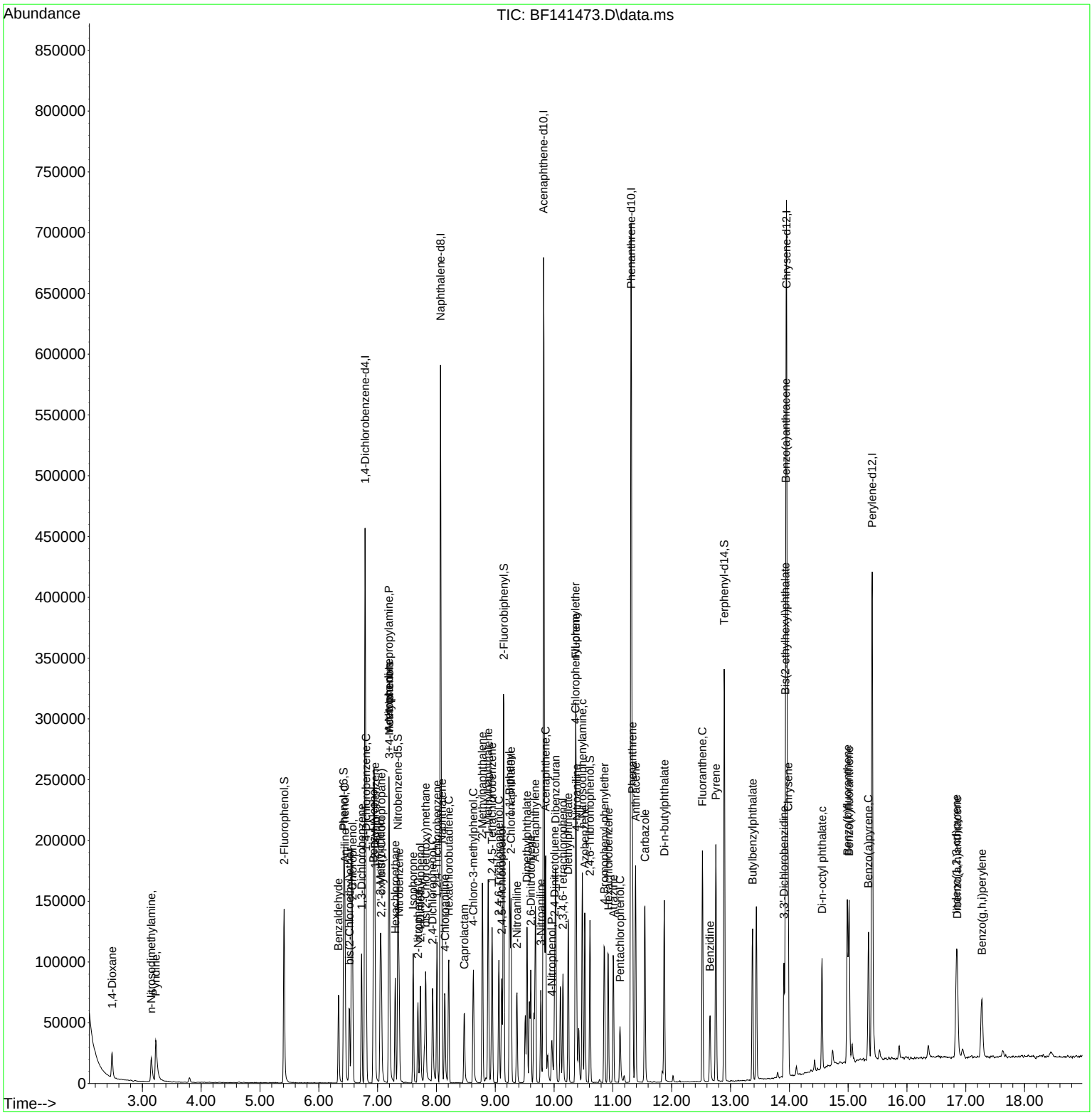
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 2-Chloronaphthalene	9.269	162	58201	5.088	ng		100
48) 2-Nitroaniline	9.369	65	18494	4.818	ng		98
49) Acenaphthylene	9.681	152	86721	5.097	ng		100
50) Dimethylphthalate	9.539	163	68921	5.088	ng		99
51) 2,6-Dinitrotoluene	9.604	165	14394	4.861	ng		94
52) Acenaphthene	9.857	154	59139	5.171	ng		99
53) 3-Nitroaniline	9.775	138	15563	4.884	ng		98
55) Dibenzofuran	10.028	168	88178	5.252	ng		99
56) 4-Nitrophenol	9.963	139	9482	4.008	ng		94
57) 2,4-Dinitrotoluene	10.010	165	19087	4.842	ng	#	96
58) Fluorene	10.369	166	67764	5.220	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	16570	4.760	ng		99
60) Diethylphthalate	10.239	149	69845	5.241	ng		99
61) 4-Chlorophenyl-phenyle...	10.363	204	32951	5.277	ng		99
62) 4-Nitroaniline	10.381	138	15711	4.855	ng		95
63) Azobenzene	10.522	77	67256	5.077	ng		99
66) n-Nitrosodiphenylamine	10.481	169	57063	5.076	ng		98
67) 4-Bromophenyl-phenylether	10.857	248	20012	5.098	ng		99
68) Hexachlorobenzene	10.922	284	20138	4.982	ng		98
69) Atrazine	11.010	200	17519	5.194	ng		93
70) Pentachlorophenol	11.122	266	10151	3.928	ng		98
71) Phenanthrene	11.333	178	100202	5.183	ng		100
72) Anthracene	11.386	178	102596	5.279	ng		98
73) Carbazole	11.545	167	89721	5.131	ng		100
74) Di-n-butylphthalate	11.875	149	102296	5.066	ng		100
75) Fluoranthene	12.522	202	109883	5.361	ng		98
77) Benzidine	12.651	184	34946	5.370	ng		99
78) Pyrene	12.751	202	112700	4.486	ng		100
80) Butylbenzylphthalate	13.374	149	38714	4.449	ng		98
81) Benzo(a)anthracene	13.939	228	101861	5.193	ng		99
82) 3,3'-Dichlorobenzidine	13.910	252	29306	5.216	ng		98
83) Chrysene	13.980	228	87555	4.834	ng		100
84) Bis(2-ethylhexyl)phtha...	13.933	149	43735	4.457	ng		98
85) Di-n-octyl phthalate	14.557	149	59200	4.229	ng		100
87) Indeno(1,2,3-cd)pyrene	16.839	276	57572	3.993	ng		99
88) Benzo(b)fluoranthene	14.986	252	75033	4.789	ng		99
89) Benzo(k)fluoranthene	15.016	252	64919	4.853	ng		98
90) Benzo(a)pyrene	15.345	252	63295	4.993	ng		98
91) Dibenzo(a,h)anthracene	16.857	278	46421	3.974	ng		98
92) Benzo(g,h,i)perylene	17.274	276	46952	3.841	ng		99

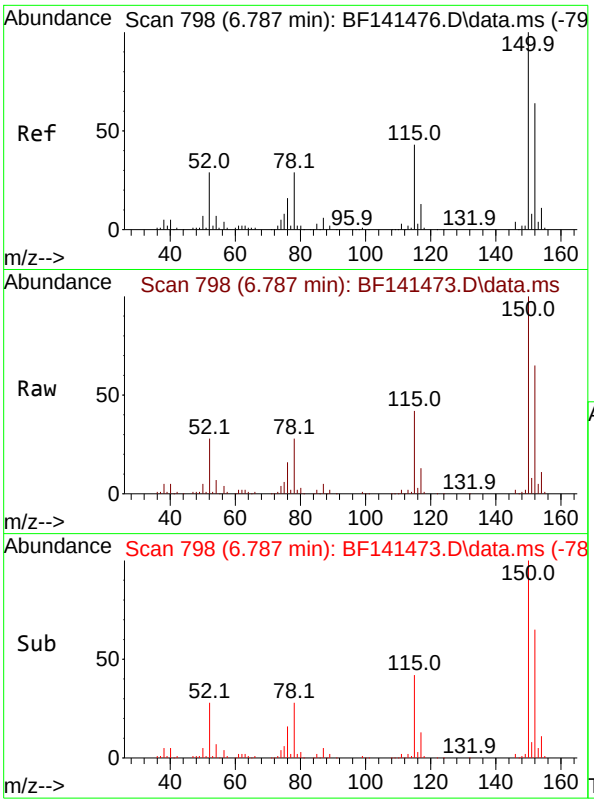
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141473.D
Acq On : 06 Feb 2025 11:34
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Feb 06 16:00:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



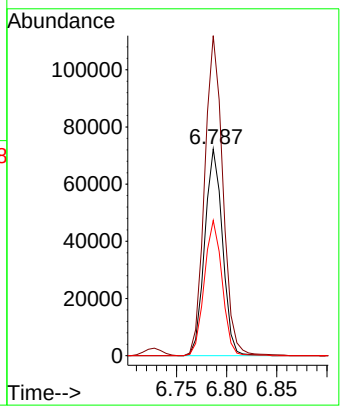


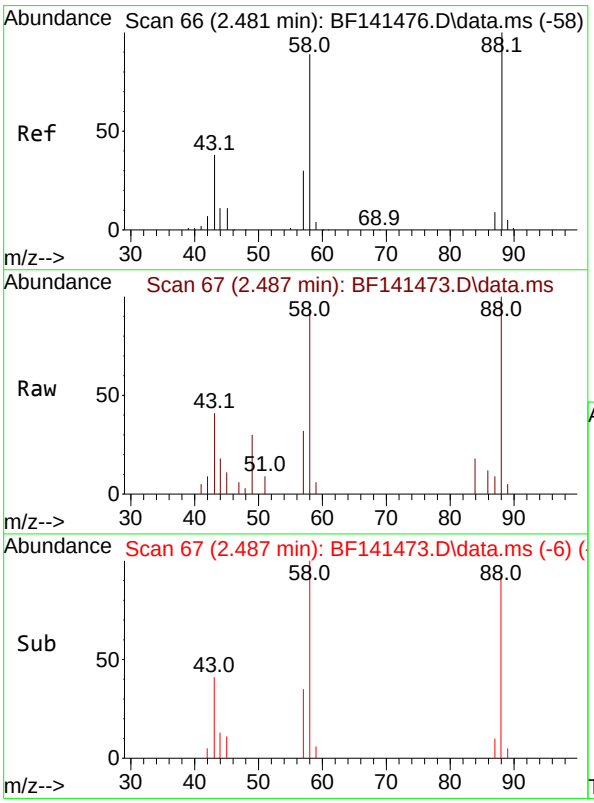
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 89396

Ion	Ratio	Lower	Upper
152	100		
150	154.8	125.0	187.4
115	65.4	53.6	80.4

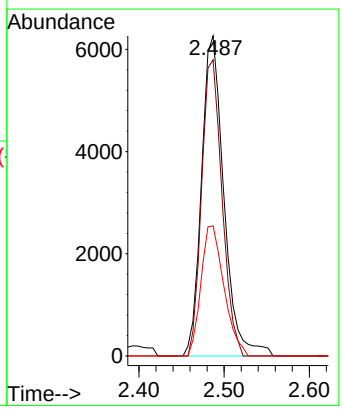


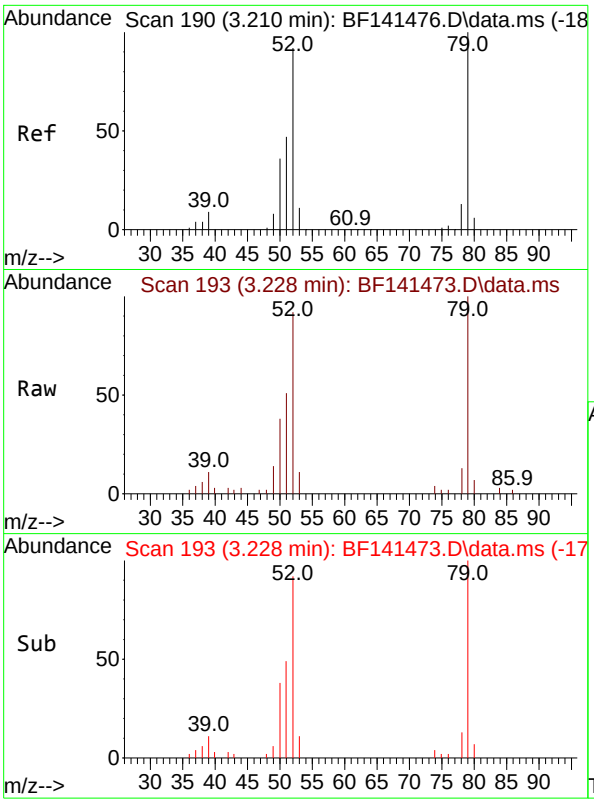


#2
1,4-Dioxane
Concen: 4.976 ng
RT: 2.487 min Scan# 67
Delta R.T. 0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 88 Resp: 11419

Ion	Ratio	Lower	Upper
88	100		
58	84.3	71.1	106.7
43	41.7	30.6	46.0



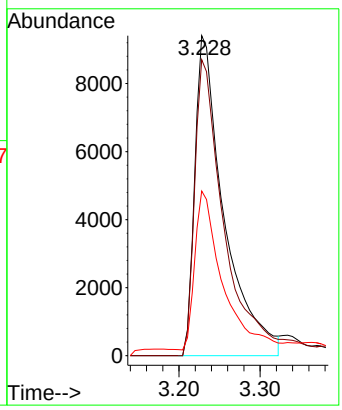


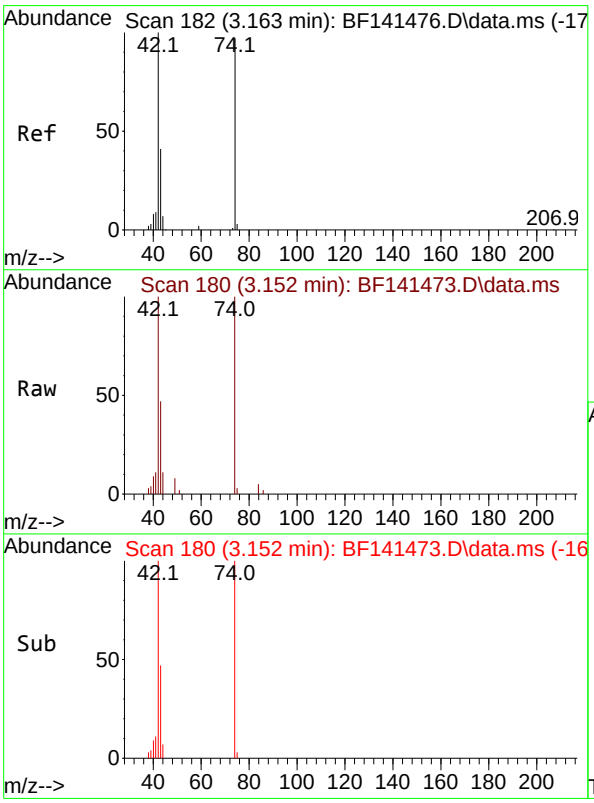
#3
Pyridine
Concen: 4.310 ng
RT: 3.228 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 23540

Ion	Ratio	Lower	Upper
79	100		
52	92.5	73.7	110.5
51	51.5	37.5	56.3

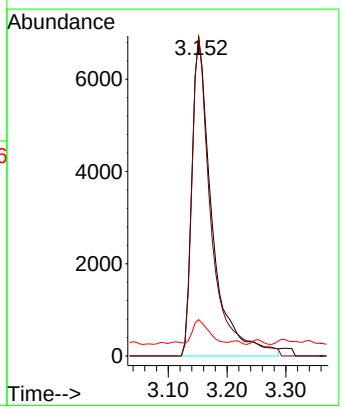


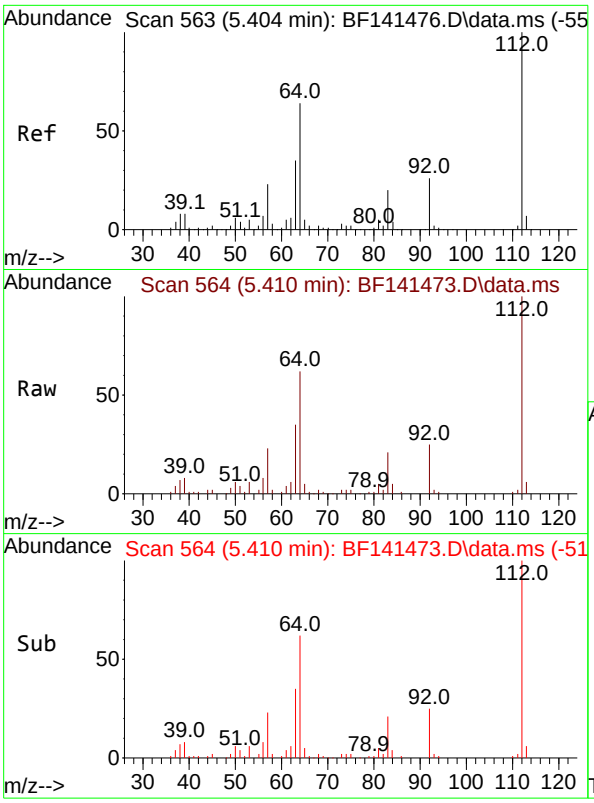


#4
n-Nitrosodimethylamine
Concen: 4.558 ng
RT: 3.152 min Scan# 180
Delta R.T. -0.035 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 42 Resp: 16481

Ion	Ratio	Lower	Upper
42	100		
74	100.5	78.0	117.0
44	11.4	5.4	8.2#



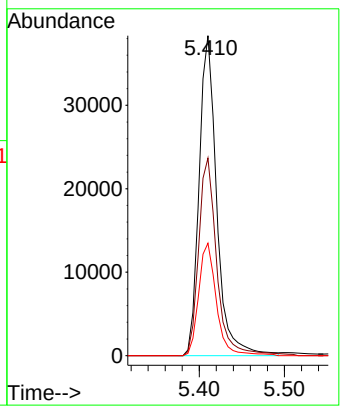


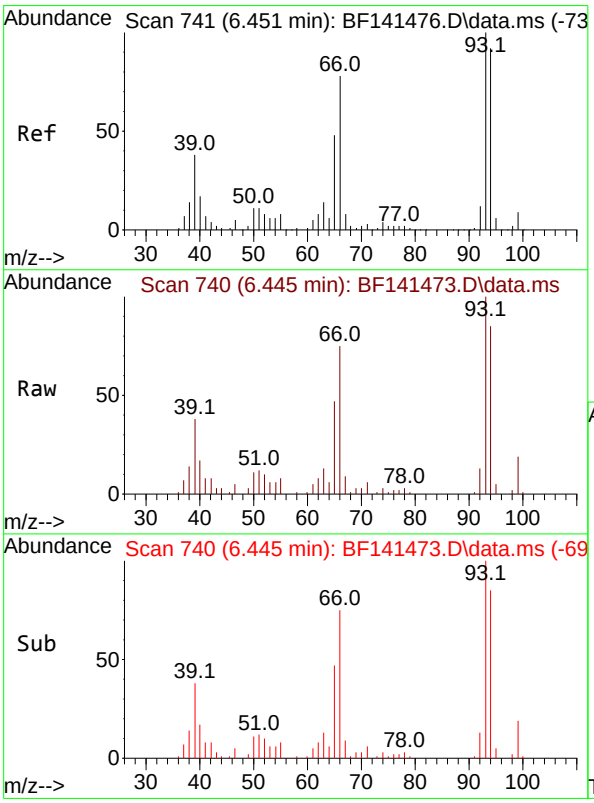
#5
2-Fluorophenol
Concen: 9.680 ng
RT: 5.410 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:112 Resp: 55200

Ion	Ratio	Lower	Upper
112	100		
64	61.8	51.1	76.7
63	35.1	28.4	42.6

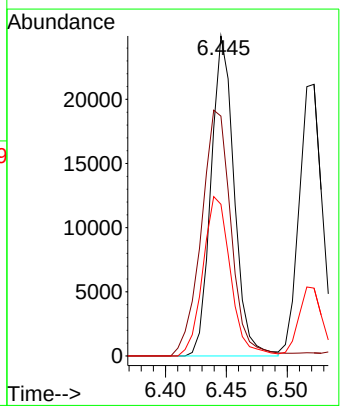


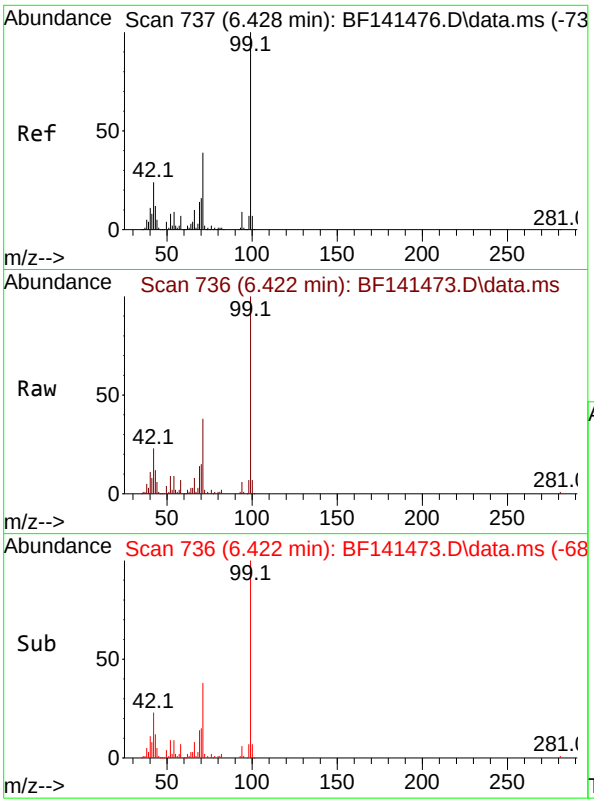


#6
Aniline
Concen: 4.880 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 93 Resp: 32993

Ion	Ratio	Lower	Upper
93	100		
66	75.0	62.6	94.0
65	47.4	38.3	57.5



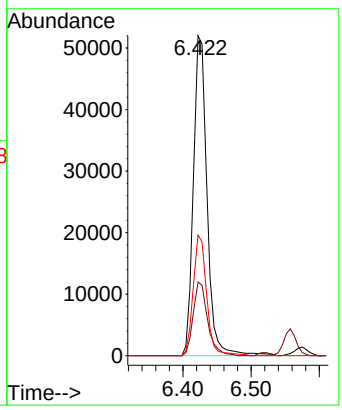


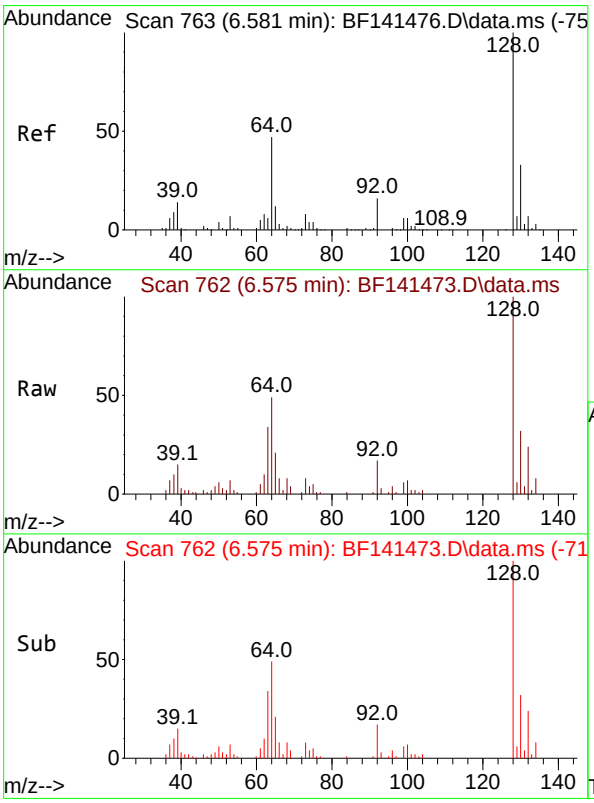
#7
Phenol-d6
Concen: 10.042 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 99 Resp: 72376

Ion	Ratio	Lower	Upper
99	100		
42	23.0	19.1	28.7
71	37.7	31.1	46.7

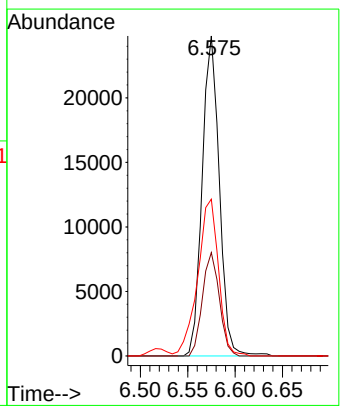


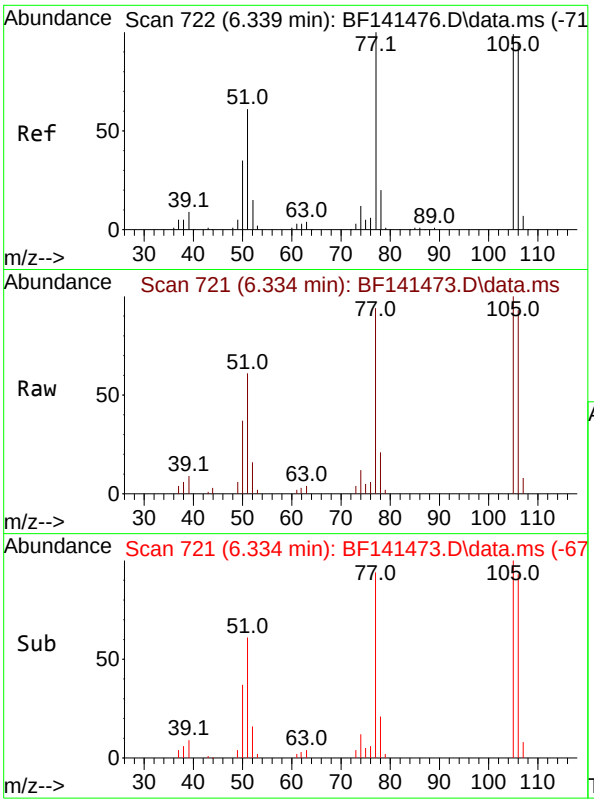


#8
2-Chlorophenol
Concen: 5.074 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:128 Resp: 31263

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.7	52.7
64	49.0	28.3	68.3



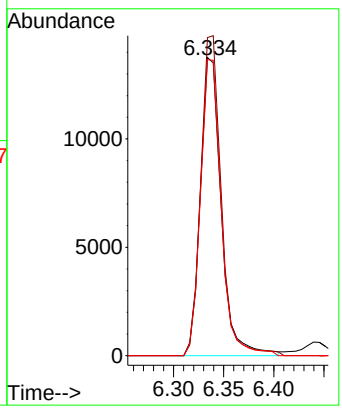


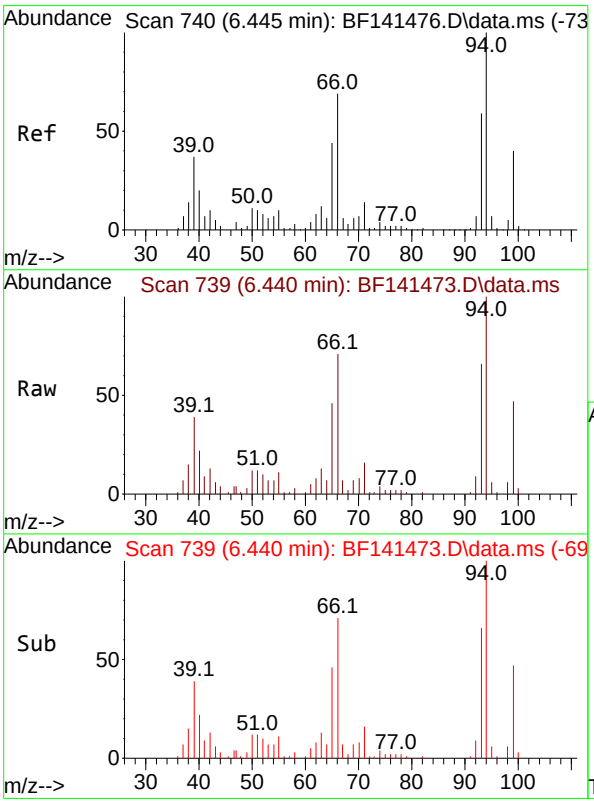
#9
Benzaldehyde
Concen: 5.207 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 19944

Ion	Ratio	Lower	Upper
77	100		
105	106.6	79.4	119.4
106	99.2	75.1	115.1

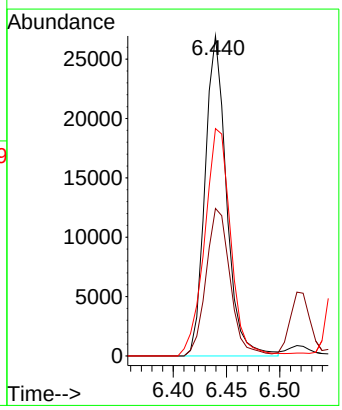


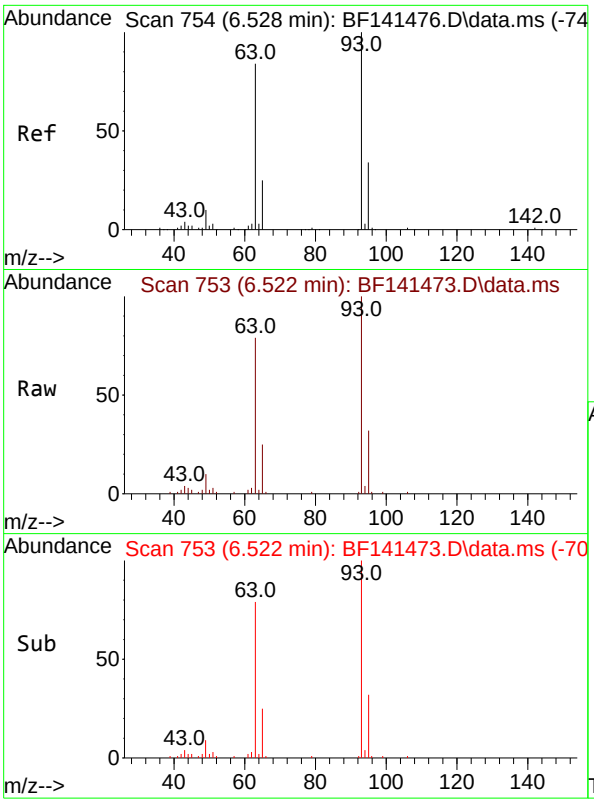


#10
Phenol
Concen: 5.044 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 94 Resp: 37833

Ion	Ratio	Lower	Upper
94	100		
65	46.1	23.7	63.7
66	71.1	49.3	89.3



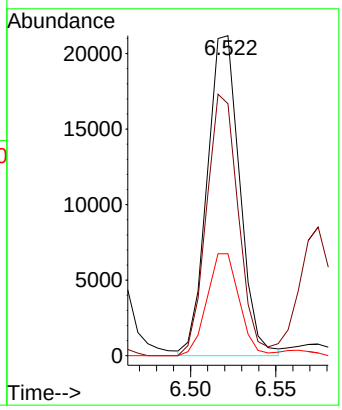


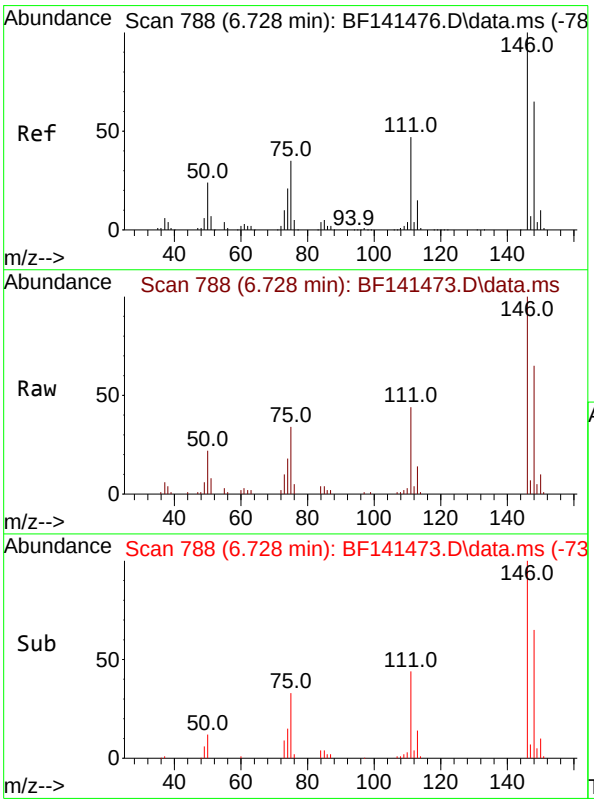
#11
bis(2-Chloroethyl)ether
Concen: 5.006 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 28203

Ion	Ratio	Lower	Upper
93	100		
63	78.7	62.0	102.0
95	31.9	12.6	52.6

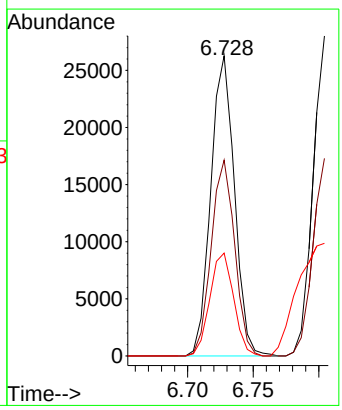


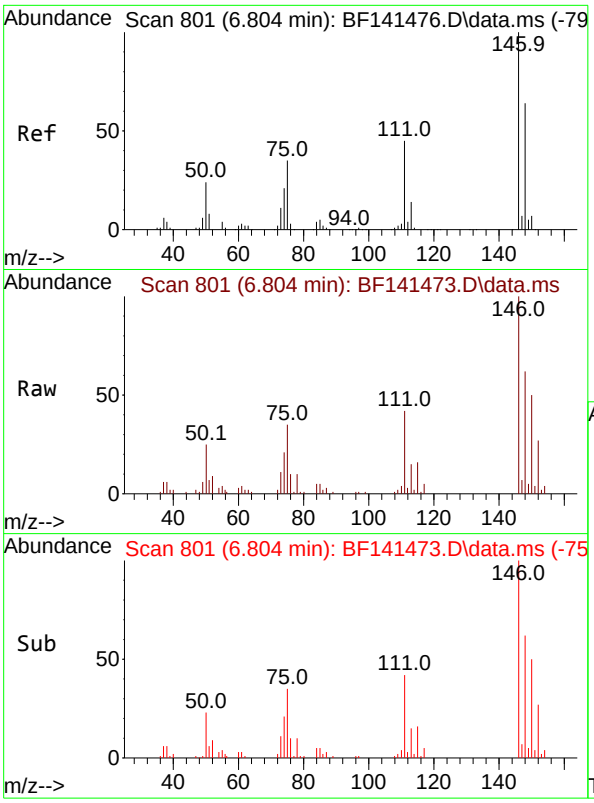


#12
1,3-Dichlorobenzene
Concen: 5.060 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:146 Resp: 32913

Ion	Ratio	Lower	Upper
146	100		
148	65.3	51.9	77.9
75	34.3	28.2	42.2



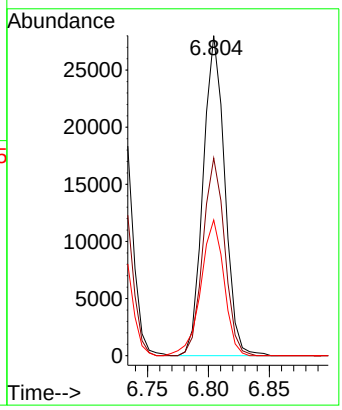


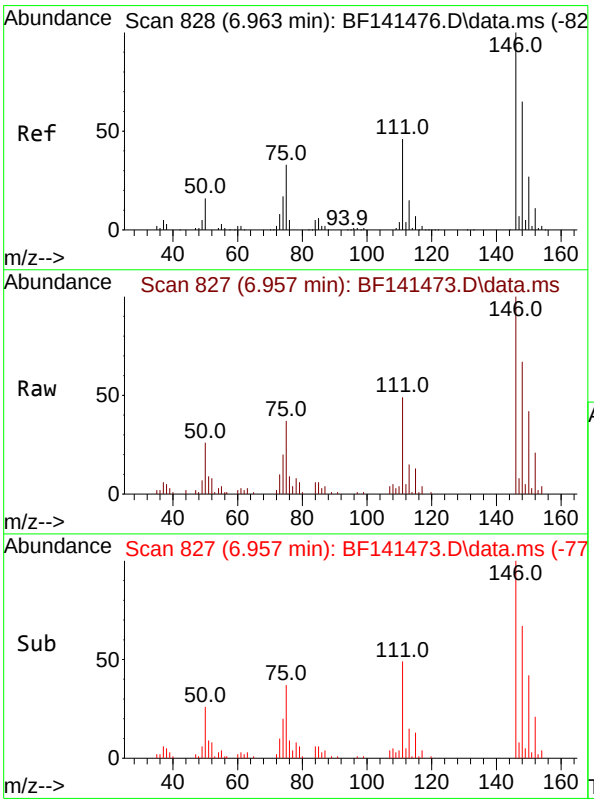
#13
1,4-Dichlorobenzene
Concen: 5.199 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 34555

Ion	Ratio	Lower	Upper
146	100		
148	61.7	50.9	76.3
111	42.4	35.9	53.9

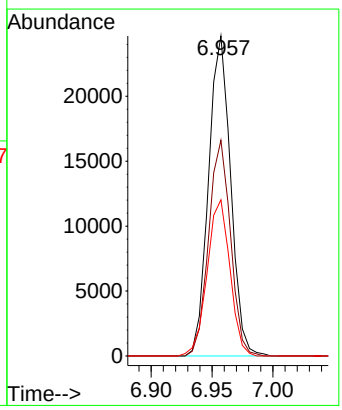


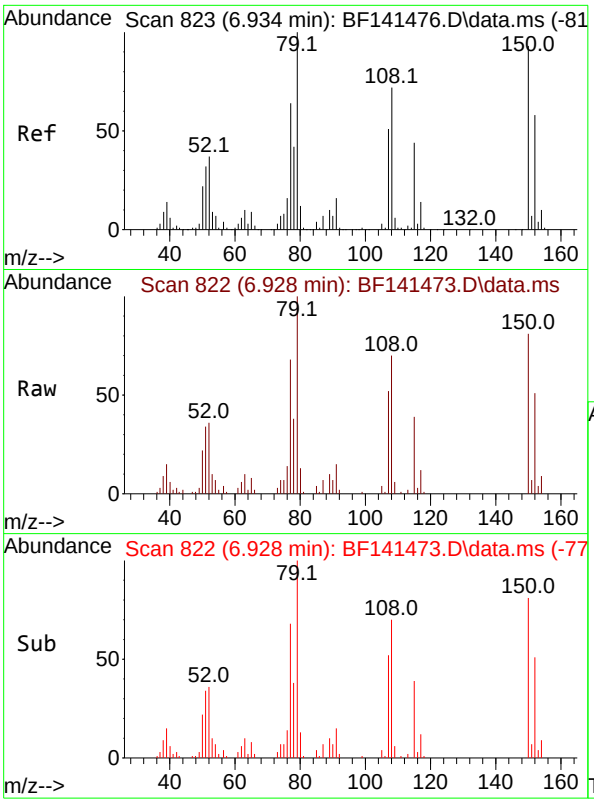


#14
1,2-Dichlorobenzene
Concen: 5.049 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:146 Resp: 31141

Ion	Ratio	Lower	Upper
146	100		
148	67.4	51.8	77.6
111	48.8	37.0	55.4



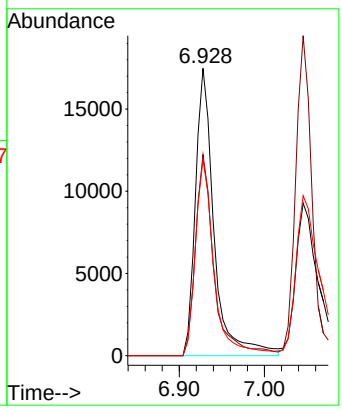


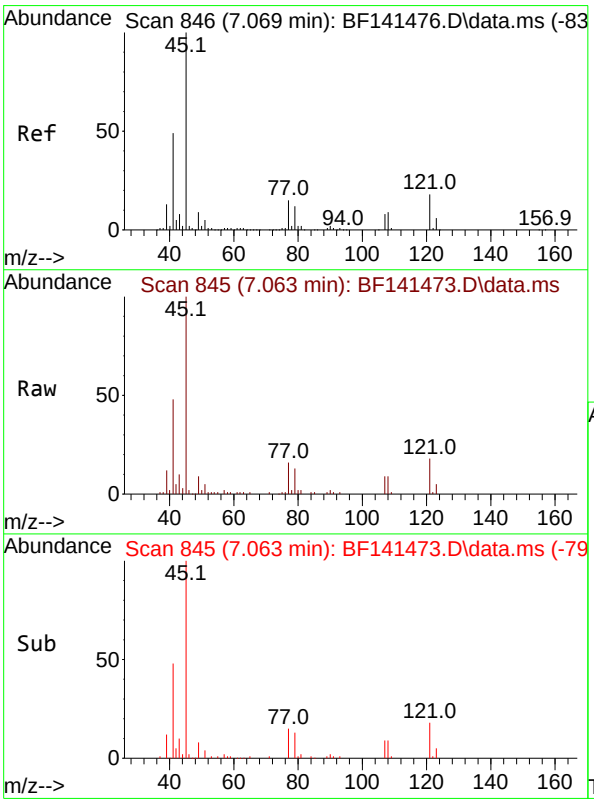
#15
Benzyl Alcohol
Concen: 4.815 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 26612

Ion	Ratio	Lower	Upper
79	100		
108	70.0	57.4	86.2
77	68.2	50.9	76.3

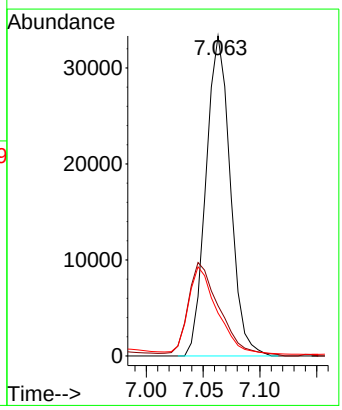


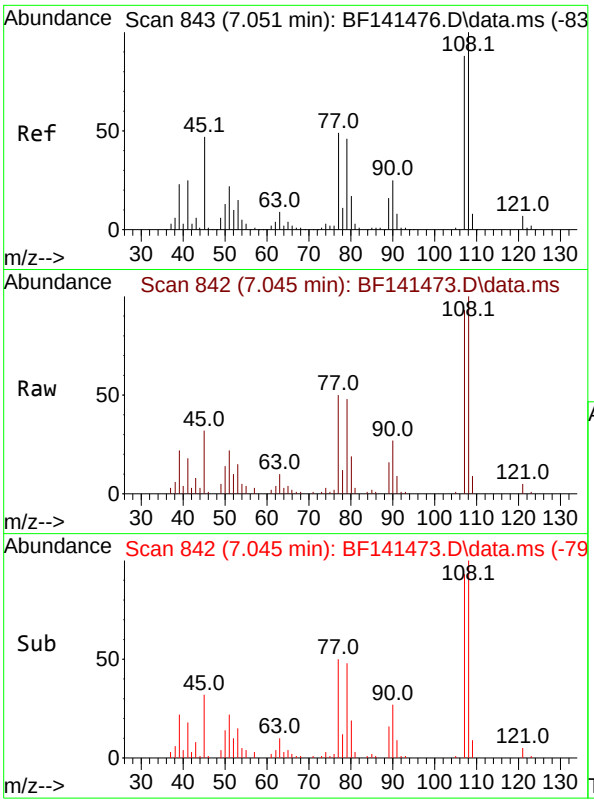


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.150 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 45 Resp: 49667

Ion	Ratio	Lower	Upper
45	100		
77	15.7	0.0	35.8
79	13.4	0.0	32.7



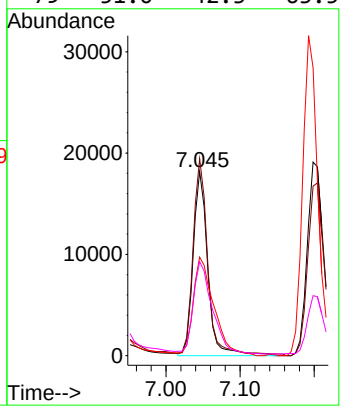


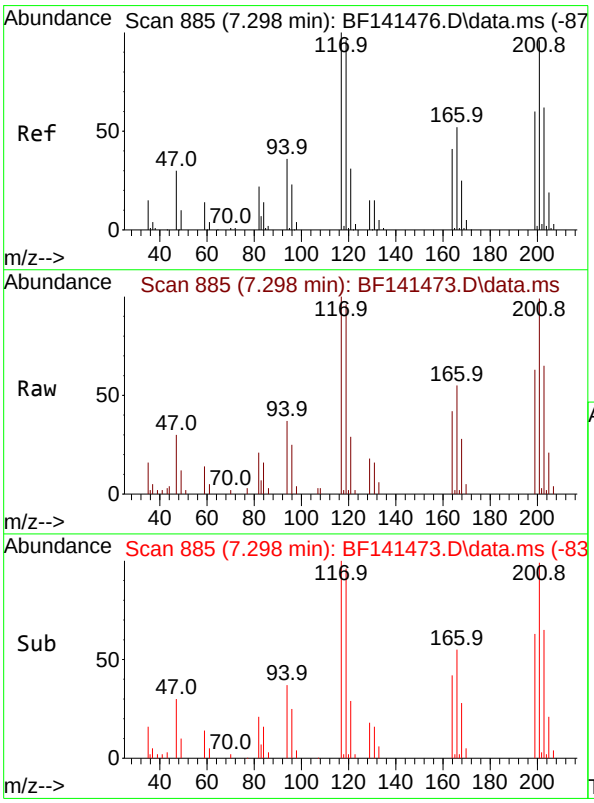
#17
2-Methylphenol
Concen: 5.173 ng
RT: 7.045 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 24939

Ion	Ratio	Lower	Upper
107	100		
108	107.0	90.6	136.0
77	53.5	44.4	66.6
79	51.0	42.3	63.5

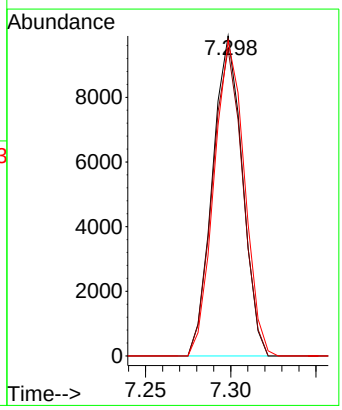


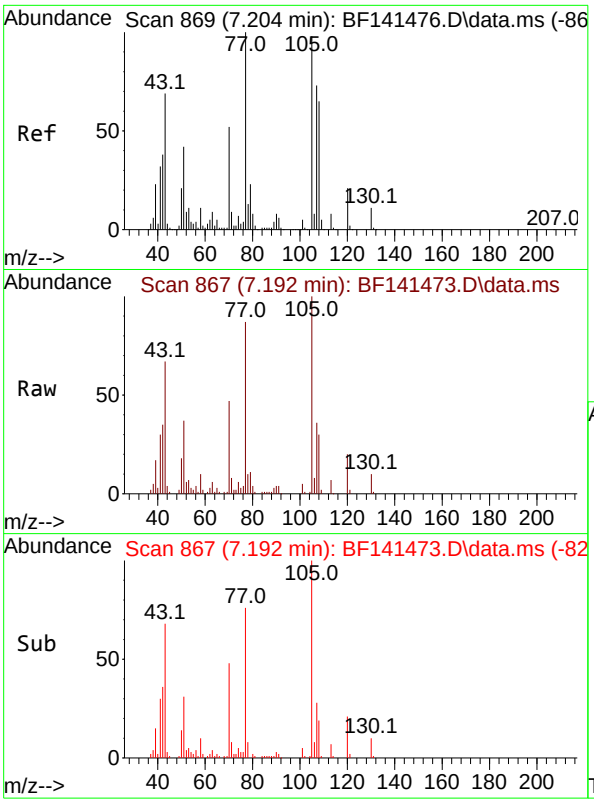


#18
Hexachloroethane
Concen: 4.896 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:117 Resp: 12043

Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.5	114.7
201	98.5	76.7	115.1



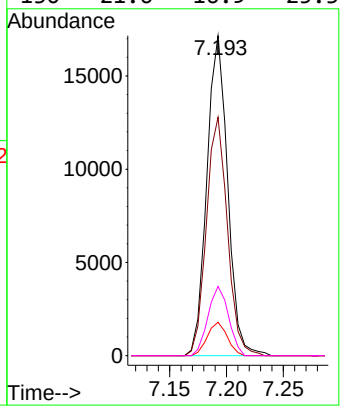


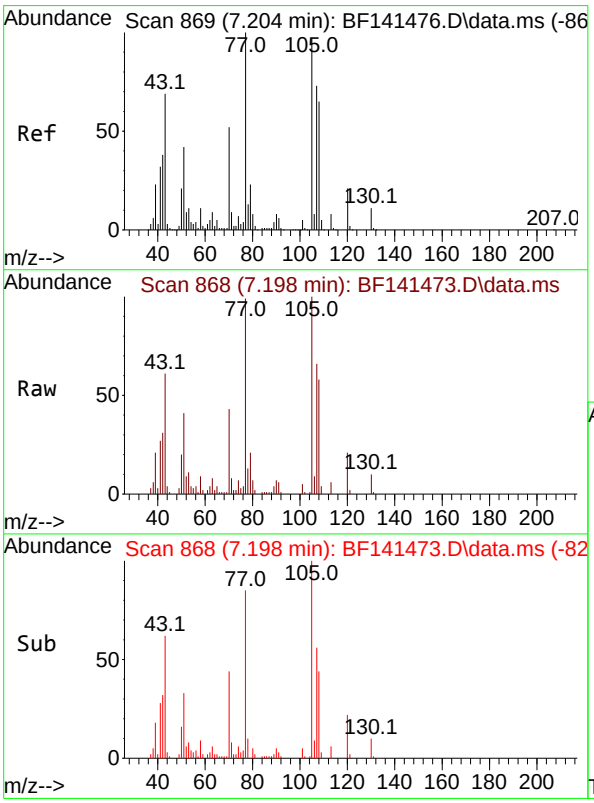
#19
n-Nitroso-di-n-propylamine
Concen: 5.072 ng
RT: 7.192 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 70 Resp: 21865

Ion	Ratio	Lower	Upper
70	100		
42	74.5	57.4	86.2
101	10.5	8.0	12.0
130	21.6	16.9	25.3

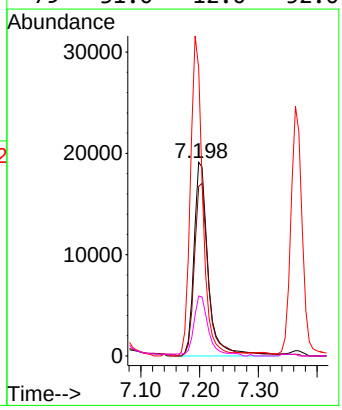


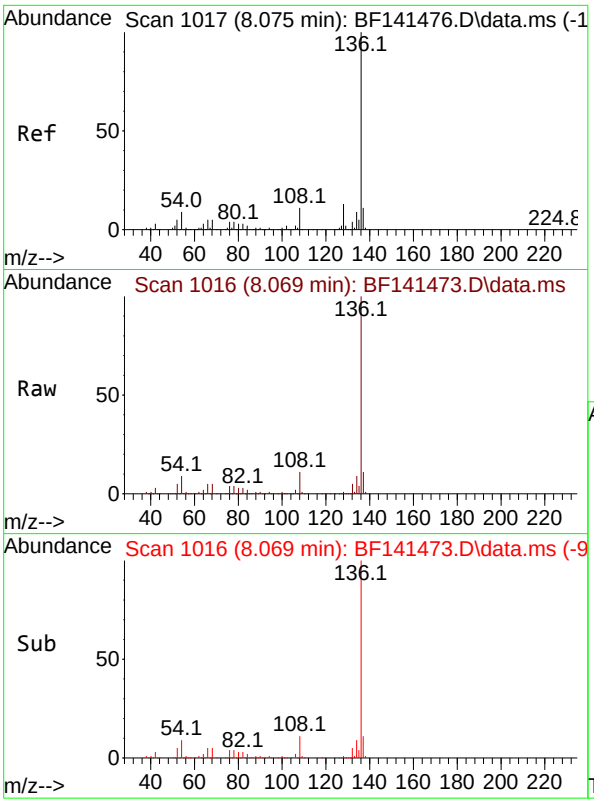


#20
3+4-Methylphenols
Concen: 5.258 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:107 Resp: 32221

Ion	Ratio	Lower	Upper
107	100		
108	87.6	68.5	108.5
77	148.7	116.5	156.5
79	31.0	12.0	52.0



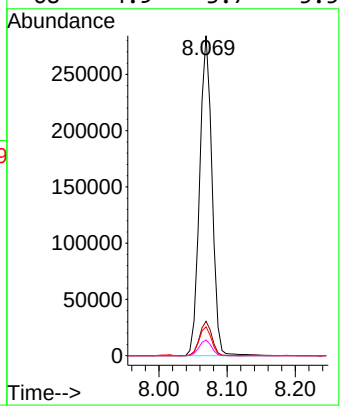


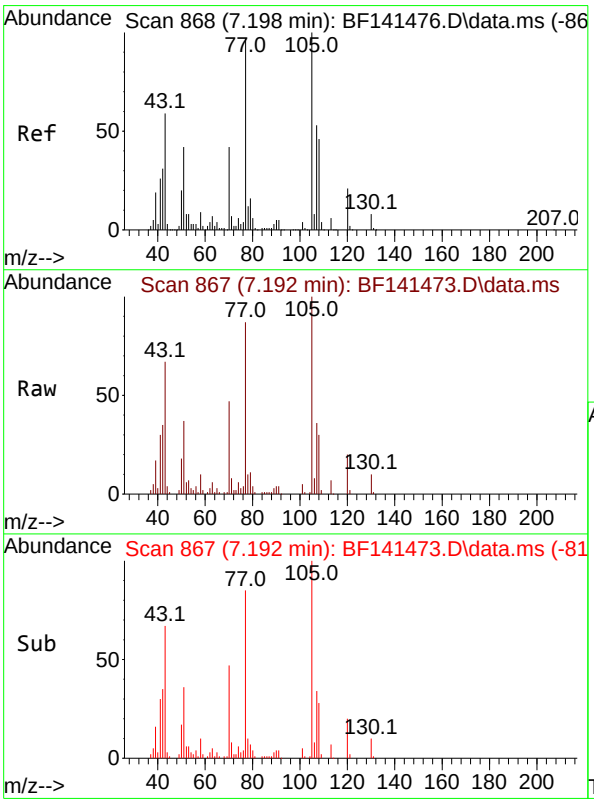
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 358966

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	9.0	7.2	10.8
68	4.9	3.7	5.5

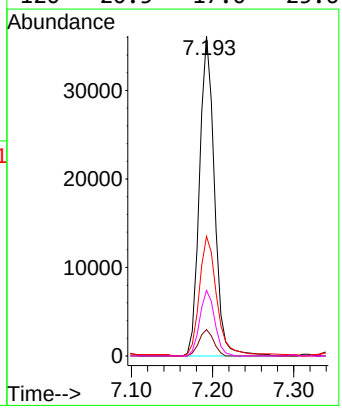


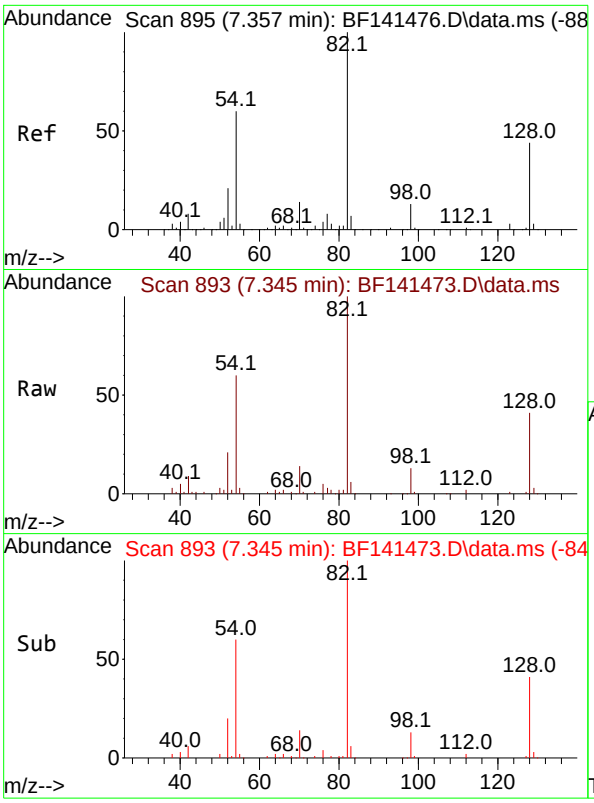


#22
Acetophenone
Concen: 5.201 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:105 Resp: 46441

Ion	Ratio	Lower	Upper
105	100		
71	8.3	5.7	8.5
51	37.4	33.7	50.5
120	20.5	17.0	25.6



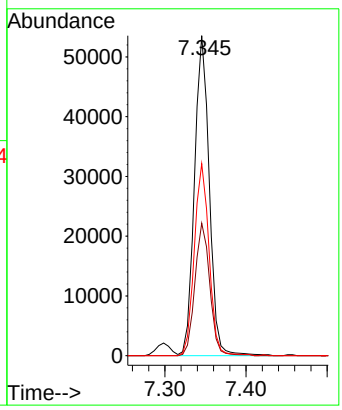


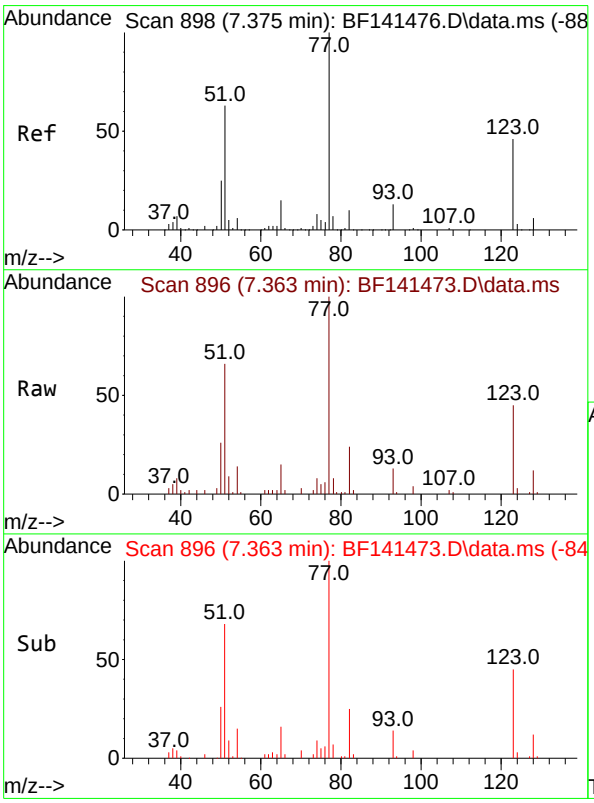
#23
Nitrobenzene-d5
Concen: 9.918 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 68257

Ion	Ratio	Lower	Upper
82	100		
128	41.4	34.8	52.2
54	60.0	48.2	72.4

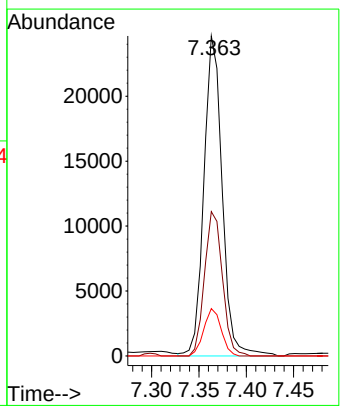


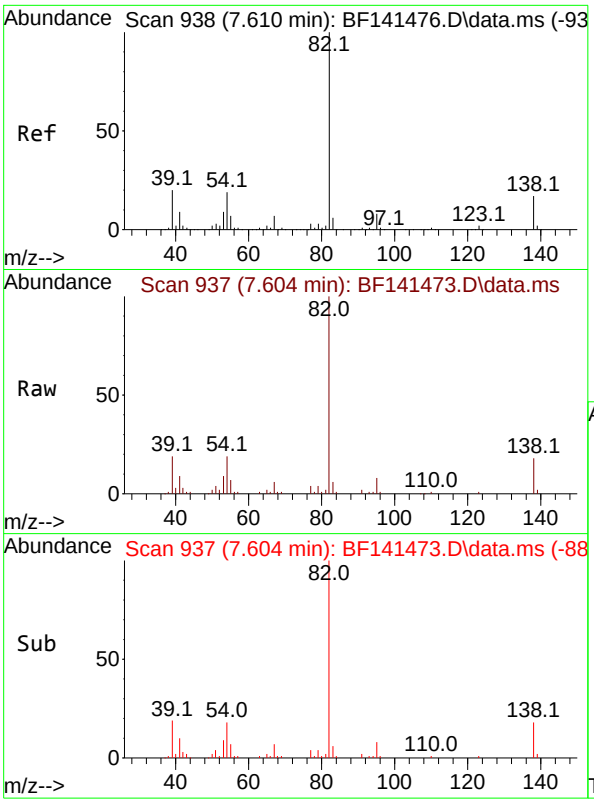


#24
Nitrobenzene
Concen: 4.943 ng
RT: 7.363 min Scan# 896
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 77 Resp: 33173

Ion	Ratio	Lower	Upper
77	100		
123	45.1	36.9	55.3
65	14.8	11.9	17.9



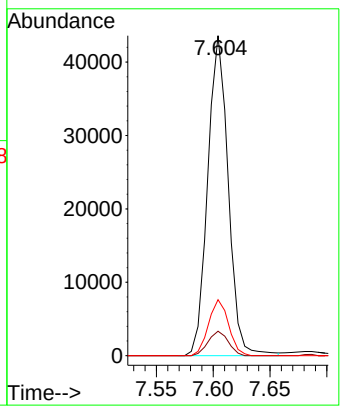


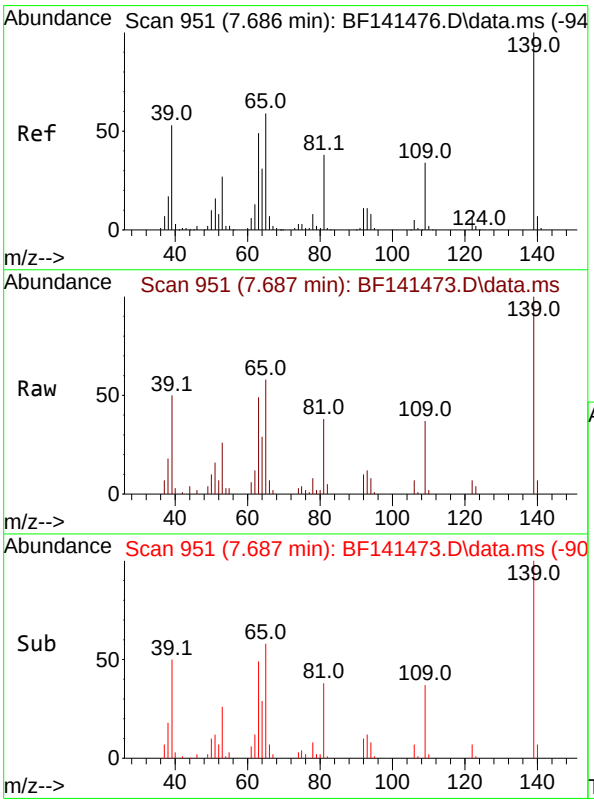
#25
Isophorone
Concen: 4.993 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 54796

Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.4	9.6
138	17.5	13.9	20.9

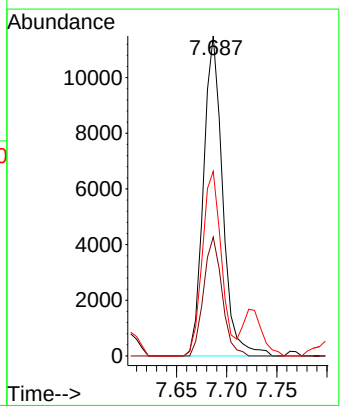


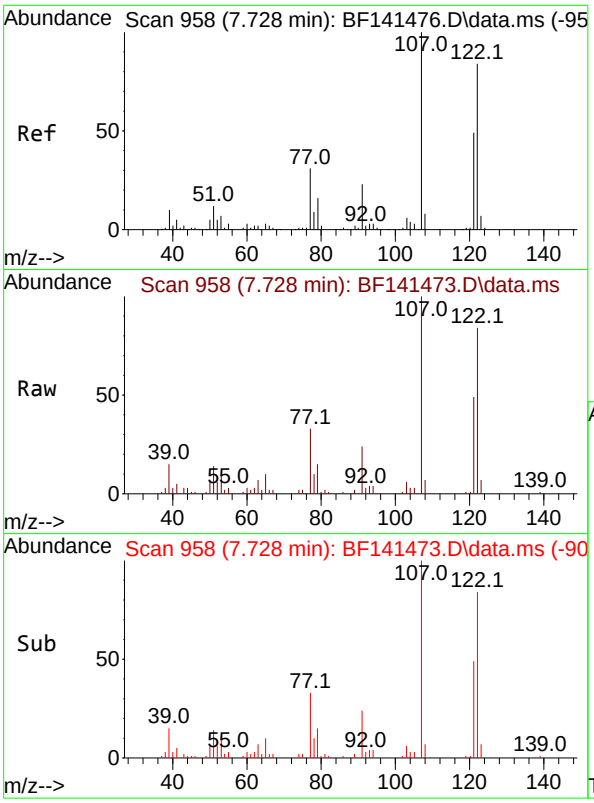


#26
2-Nitrophenol
Concen: 4.592 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:139 Resp: 15331

Ion	Ratio	Lower	Upper
139	100		
109	37.1	27.0	40.6
65	57.7	47.1	70.7



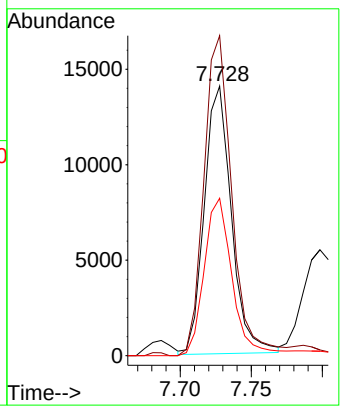


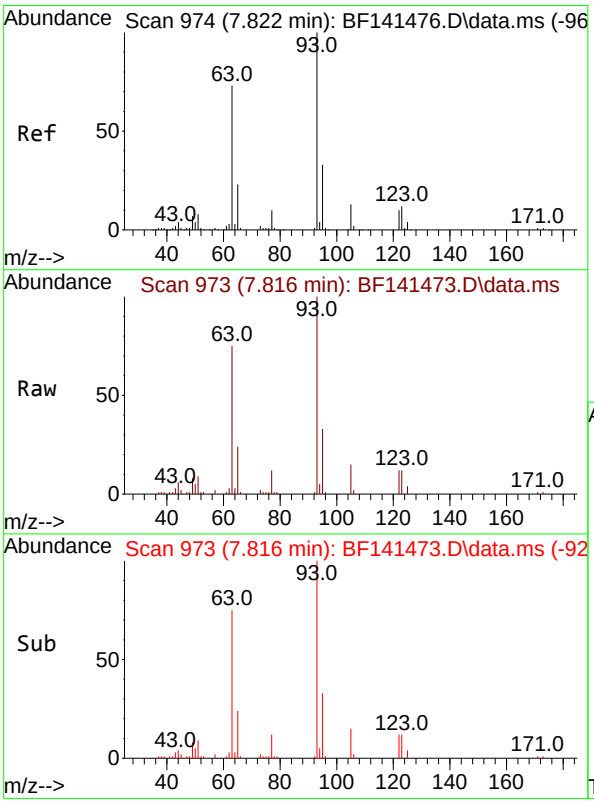
#27
2,4-Dimethylphenol
Concen: 4.784 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 18659

Ion	Ratio	Lower	Upper
122	100		
107	118.7	94.3	141.5
121	58.4	46.0	69.0

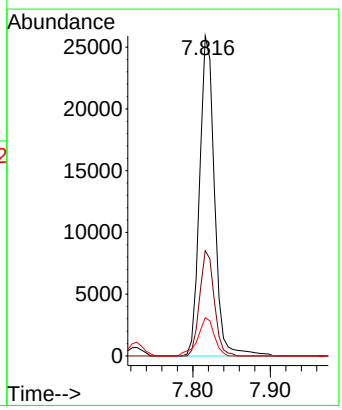


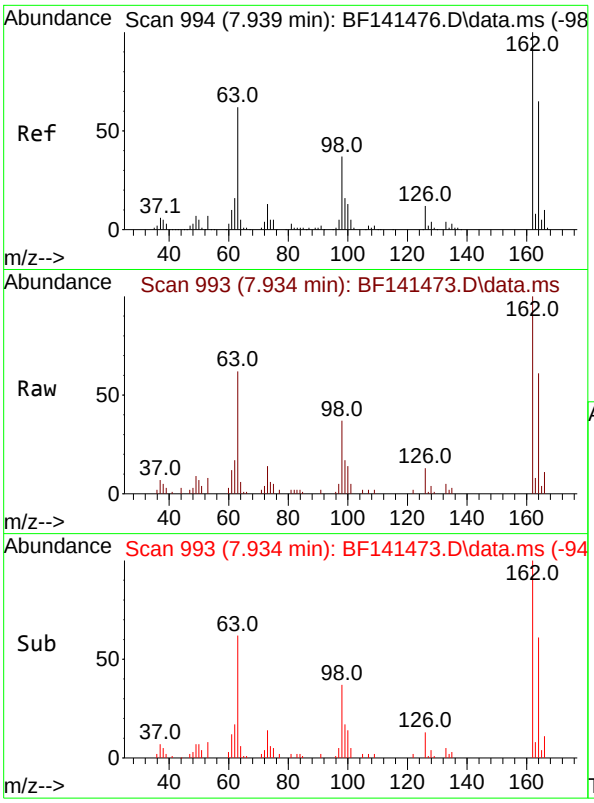


#28
bis(2-Chloroethoxy)methane
Concen: 4.902 ng
RT: 7.816 min Scan# 973
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 93 Resp: 34469

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.1	39.1
123	12.0	9.5	14.3



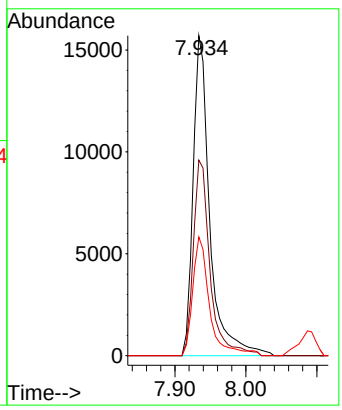


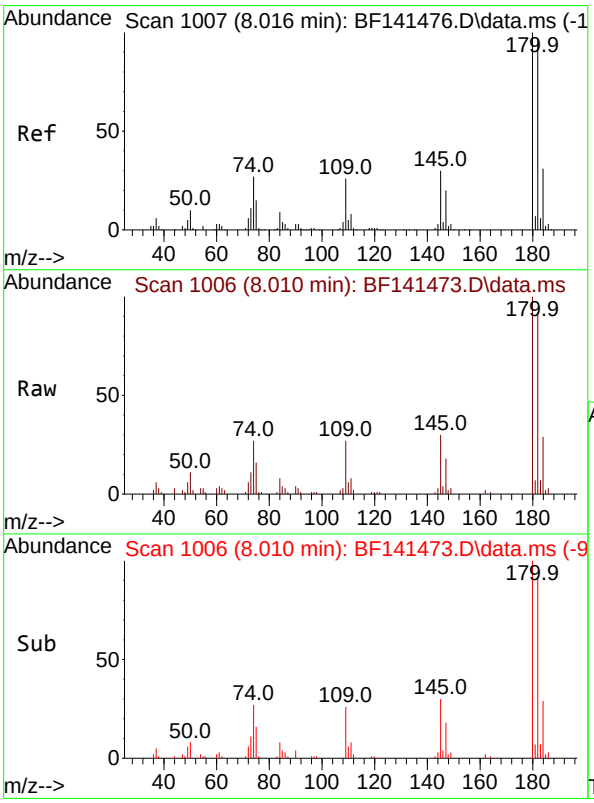
#29
2,4-Dichlorophenol
Concen: 4.870 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 25667

Ion	Ratio	Lower	Upper
162	100		
164	61.1	44.6	84.6
98	37.1	17.2	57.2

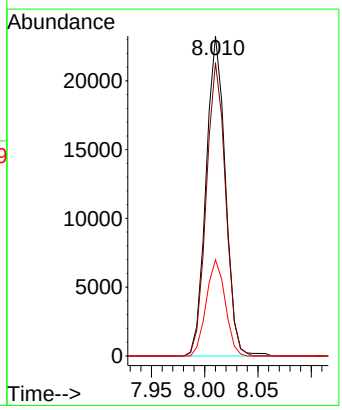


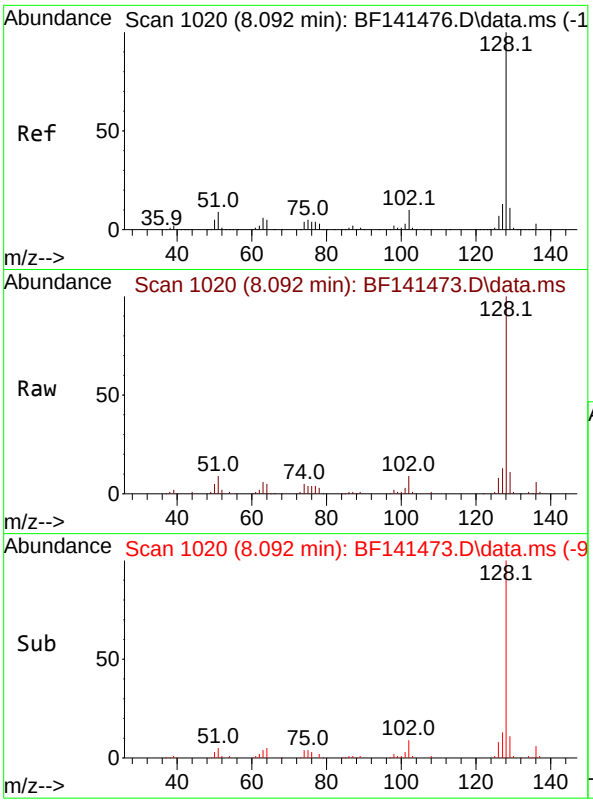


#30
1,2,4-Trichlorobenzene
Concen: 5.109 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:180 Resp: 29321

Ion	Ratio	Lower	Upper
180	100		
182	91.6	76.8	115.2
145	30.0	24.2	36.4



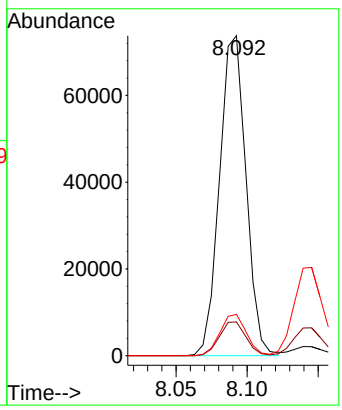


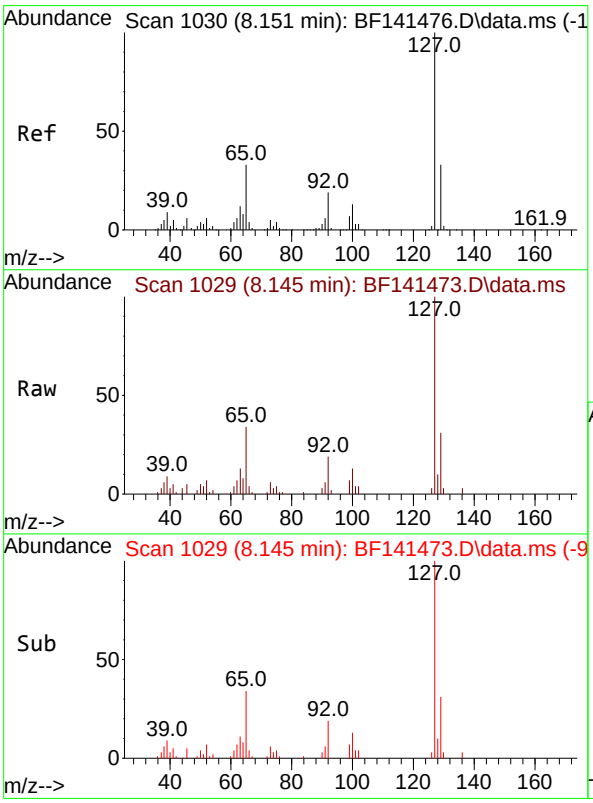
#31
Naphthalene
Concen: 5.123 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 95730

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.9	13.3
127	12.9	10.7	16.1

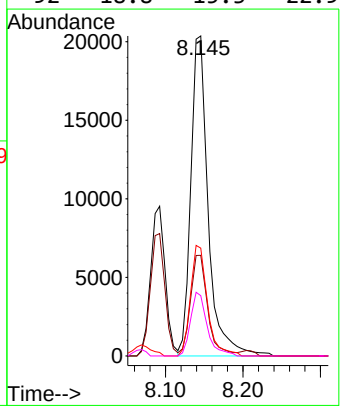


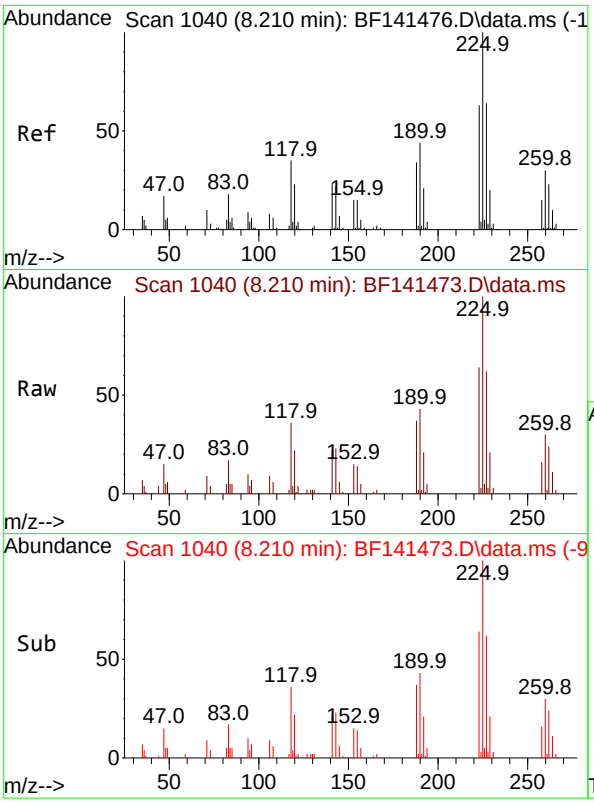


#33
4-Chloroaniline
Concen: 4.864 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:127 Resp: 31729

Ion	Ratio	Lower	Upper
127	100		
129	31.4	26.5	39.7
65	33.7	26.4	39.6
92	18.8	15.3	22.9



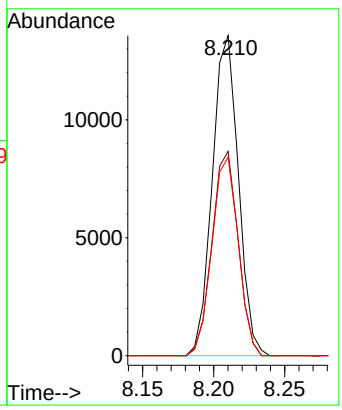


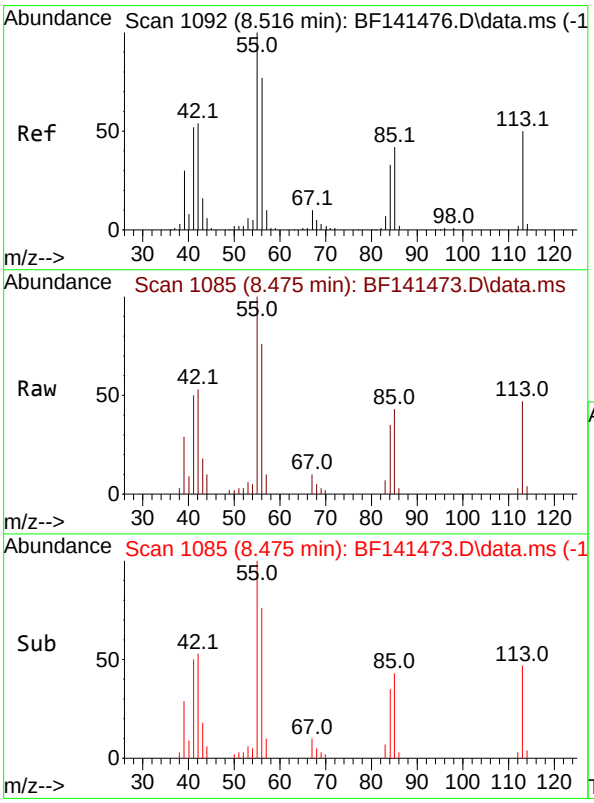
#34
Hexachlorobutadiene
Concen: 5.028 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:225 Resp: 17323

Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.1	75.1
227	62.0	51.0	76.6

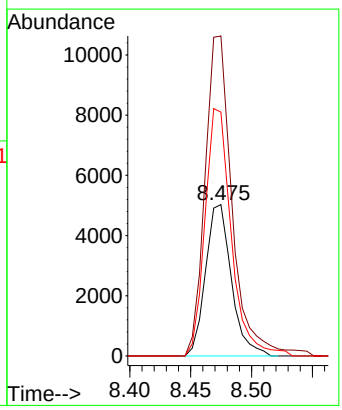


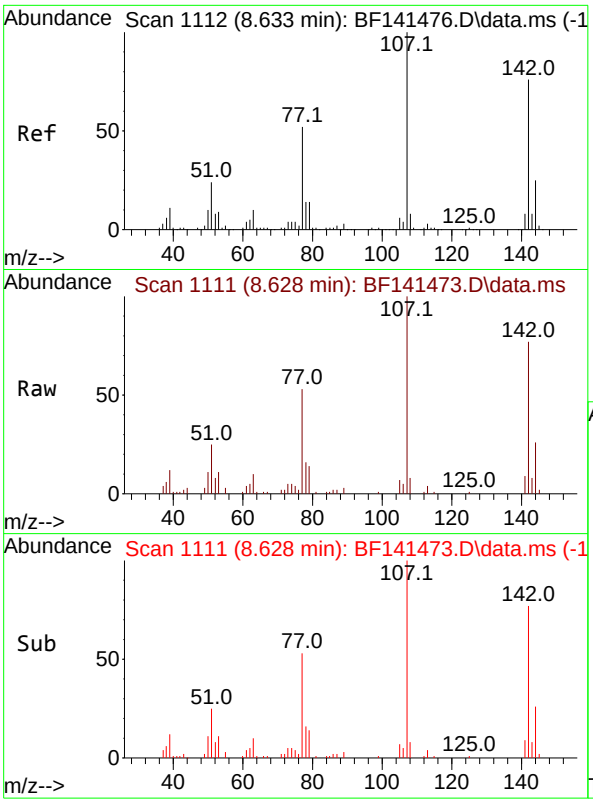


#35
Caprolactam
Concen: 4.635 ng
RT: 8.475 min Scan# 1085
Delta R.T. -0.070 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:113 Resp: 7437

Ion	Ratio	Lower	Upper
113	100		
55	211.4	180.8	220.8
56	161.1	133.6	173.6



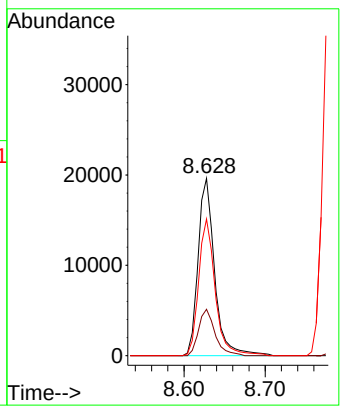


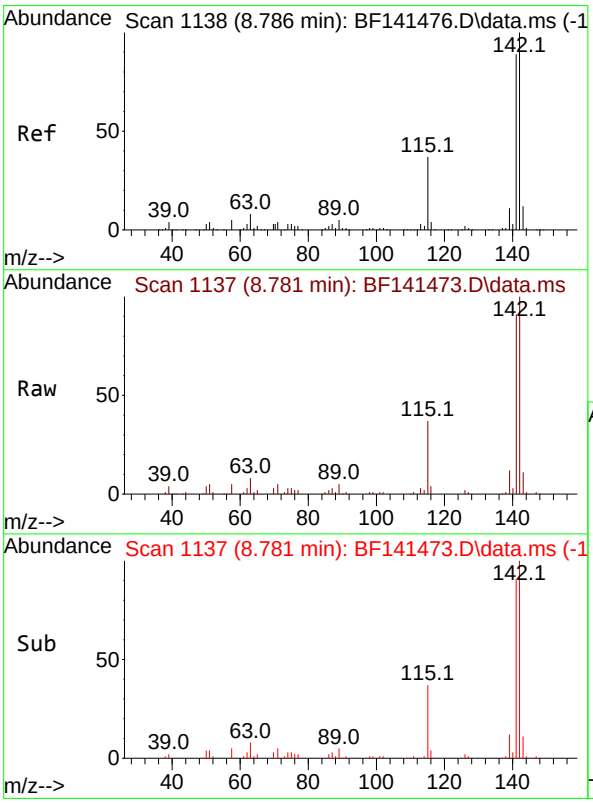
#36
4-Chloro-3-methylphenol
Concen: 4.765 ng
RT: 8.628 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 27818

Ion	Ratio	Lower	Upper
107	100		
144	26.2	19.7	29.5
142	77.1	60.8	91.2

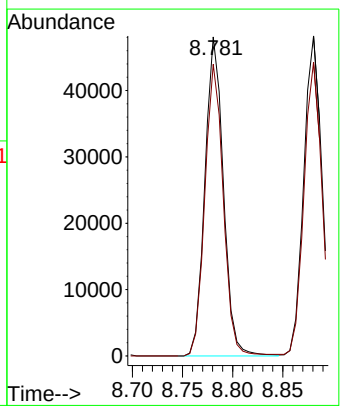


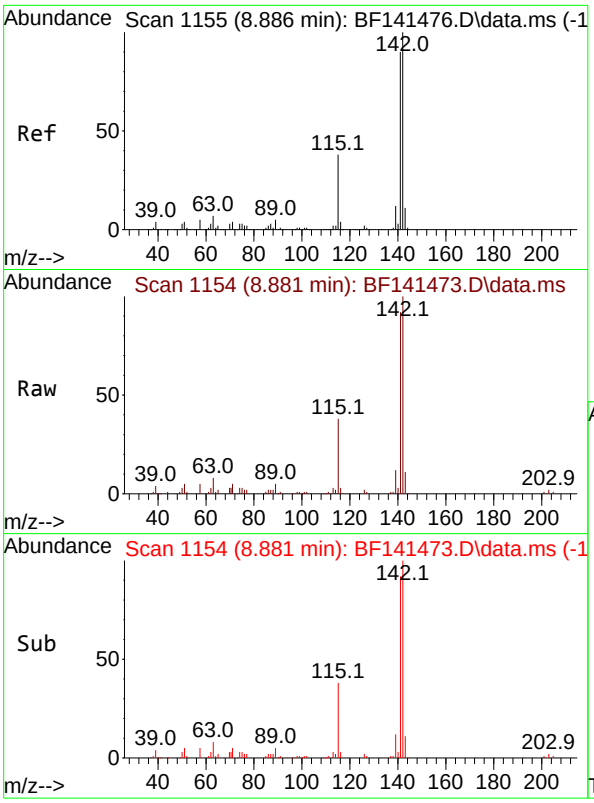


#37
2-Methylnaphthalene
Concen: 5.078 ng
RT: 8.781 min Scan# 1137
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:142 Resp: 61742

Ion	Ratio	Lower	Upper
142	100		
141	91.4	71.2	106.8



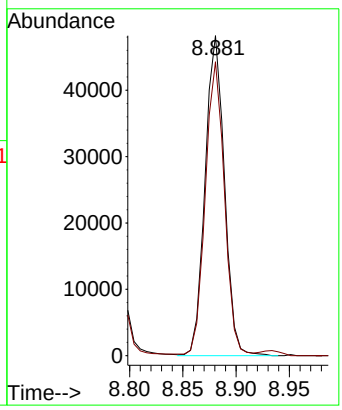


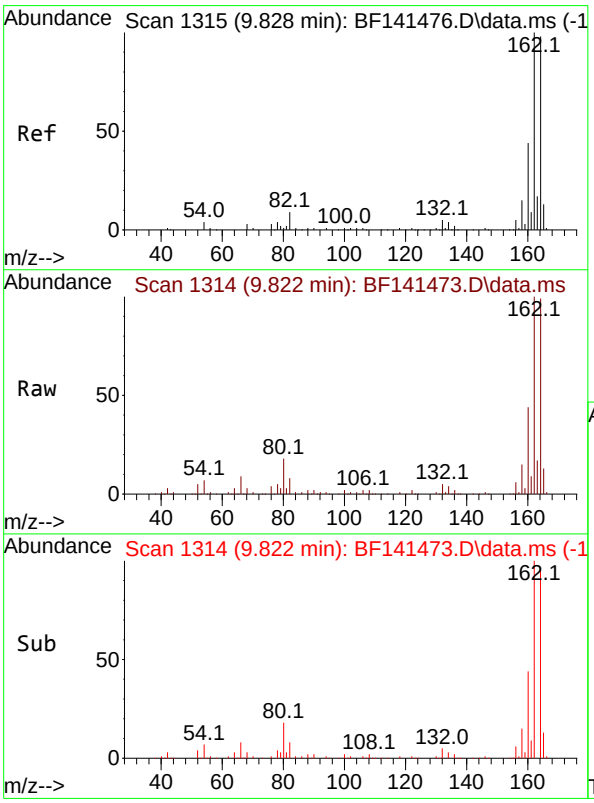
#38
1-Methylnaphthalene
Concen: 5.182 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 61026

Ion	Ratio	Lower	Upper
142	100		
141	91.9	72.1	108.1

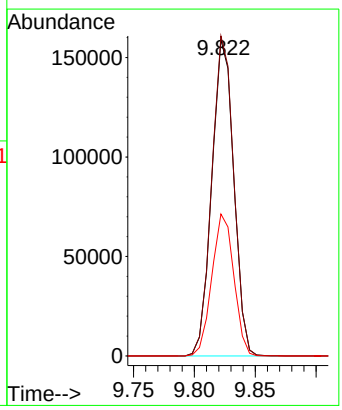


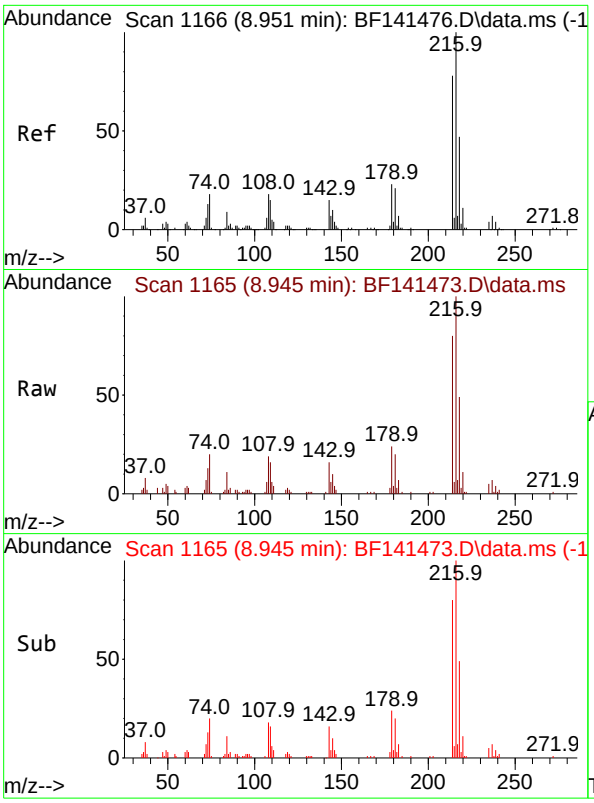


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1314
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:164 Resp: 199514

Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.3	121.9
160	44.9	35.9	53.9



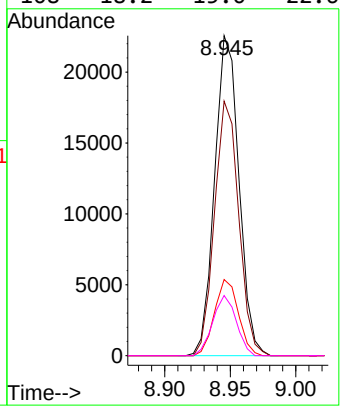


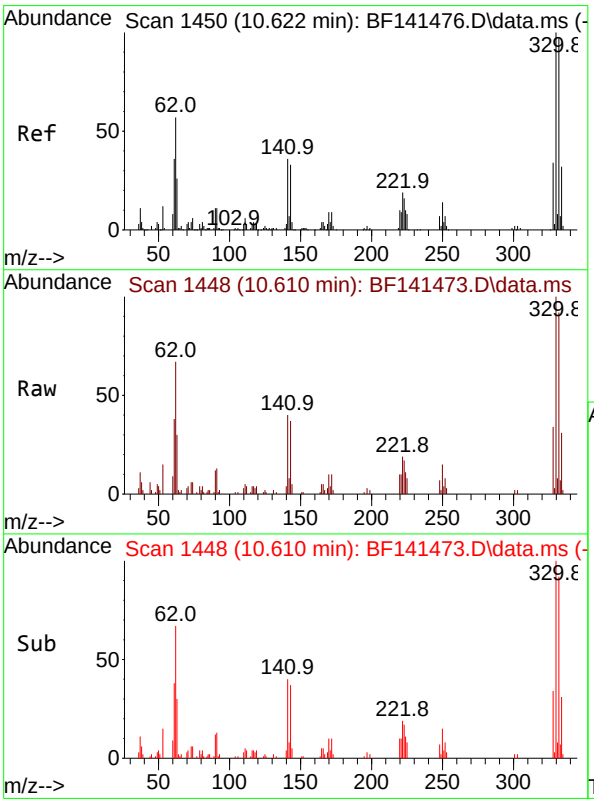
#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.028 ng
RT: 8.945 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:216 Resp: 29023

Ion	Ratio	Lower	Upper
216	100		
214	79.2	62.3	93.5
179	23.4	18.0	27.0
108	18.2	15.0	22.6

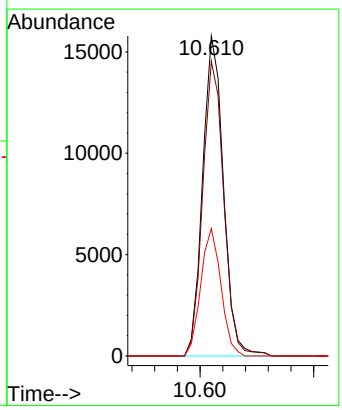


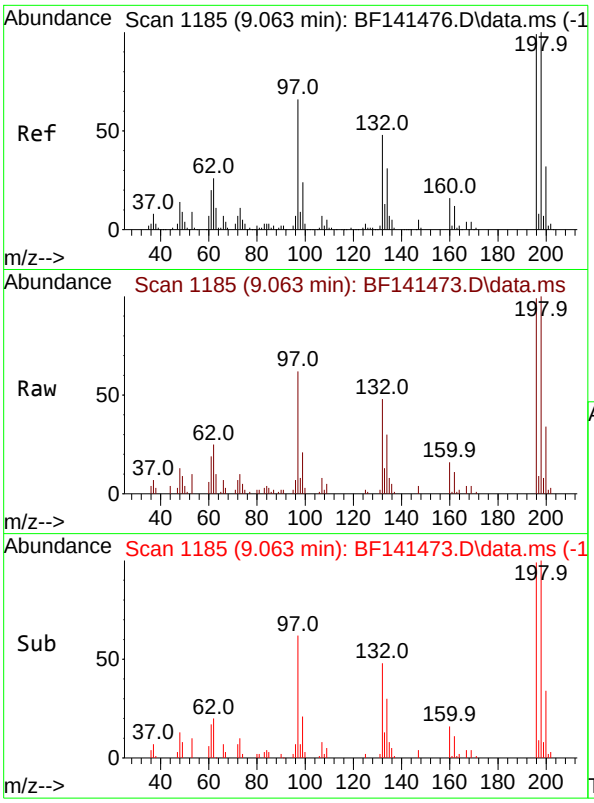


#42
2,4,6-Tribromophenol
Concen: 10.009 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:330 Resp: 20060

Ion	Ratio	Lower	Upper
330	100		
332	92.9	78.5	117.7
141	38.7	31.0	46.4



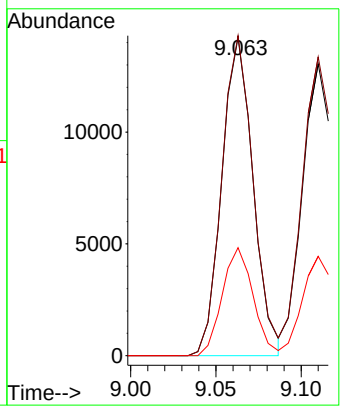


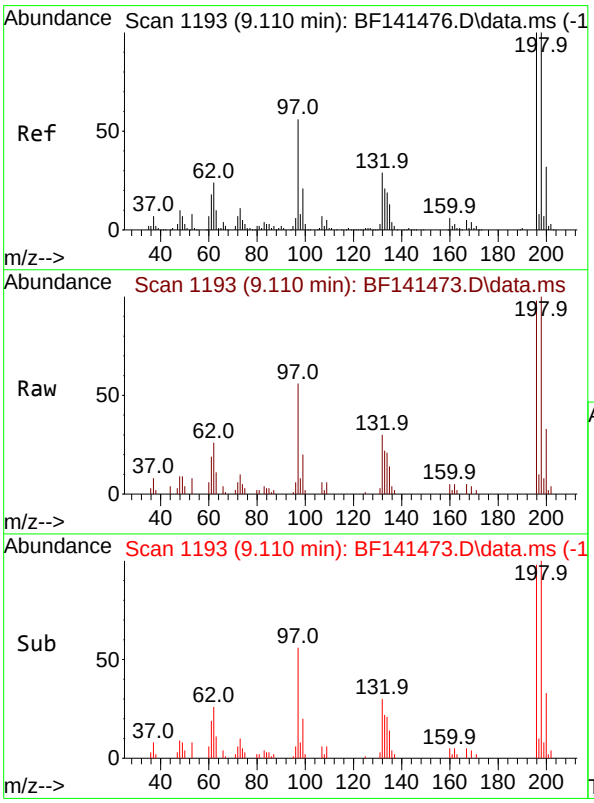
#43
2,4,6-Trichlorophenol
Concen: 4.863 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 18144

Ion	Ratio	Lower	Upper
196	100		
198	100.6	80.6	121.0
200	34.0	25.5	38.3

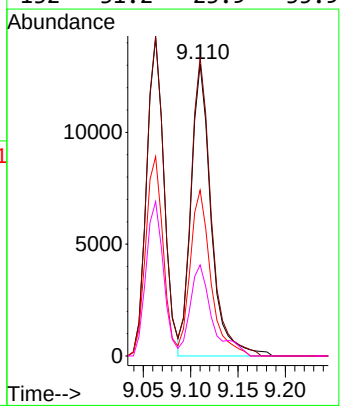


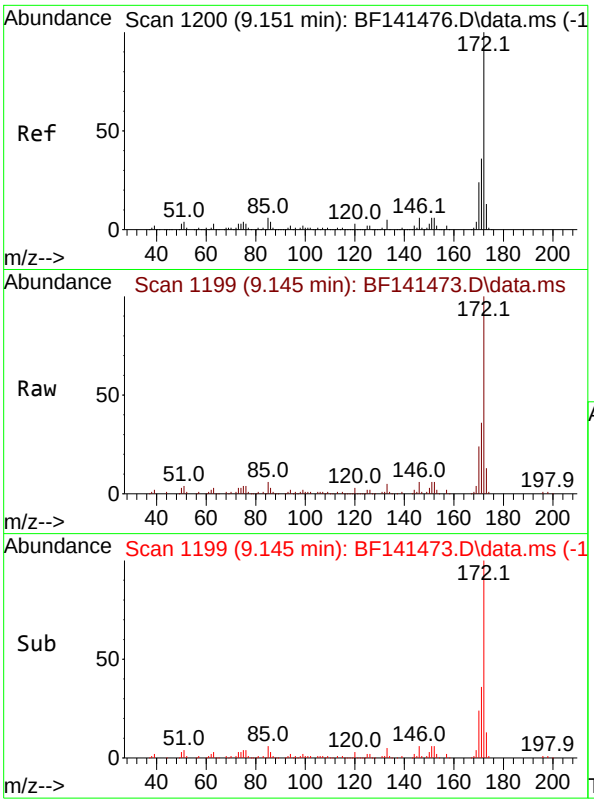


#44
2,4,5-Trichlorophenol
Concen: 4.750 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:196 Resp: 19204

Ion	Ratio	Lower	Upper
196	100		
198	102.3	79.8	119.8
97	56.8	44.8	67.2
132	31.2	23.9	35.9



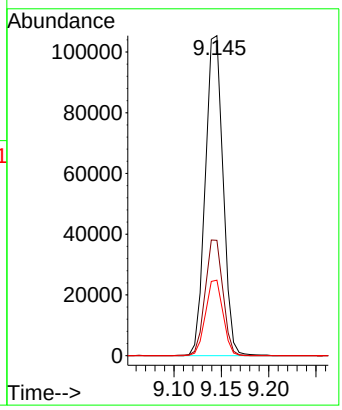


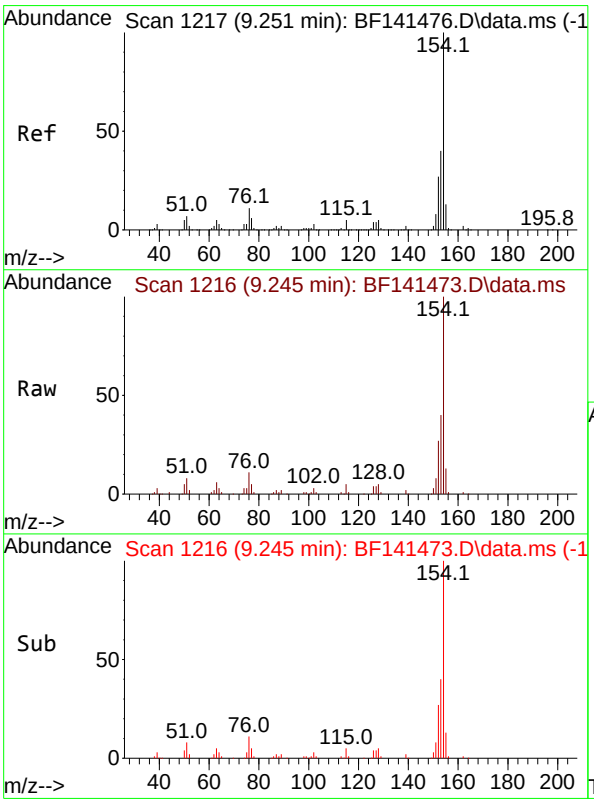
#45
2-Fluorobiphenyl
Concen: 10.573 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:172 Resp: 136925

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.7	43.1
170	23.6	18.9	28.3

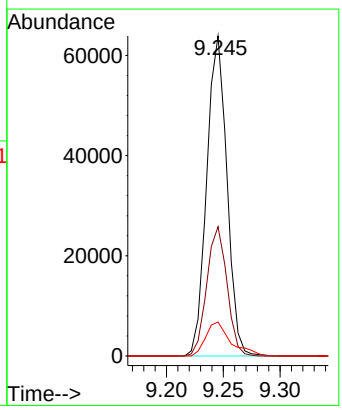


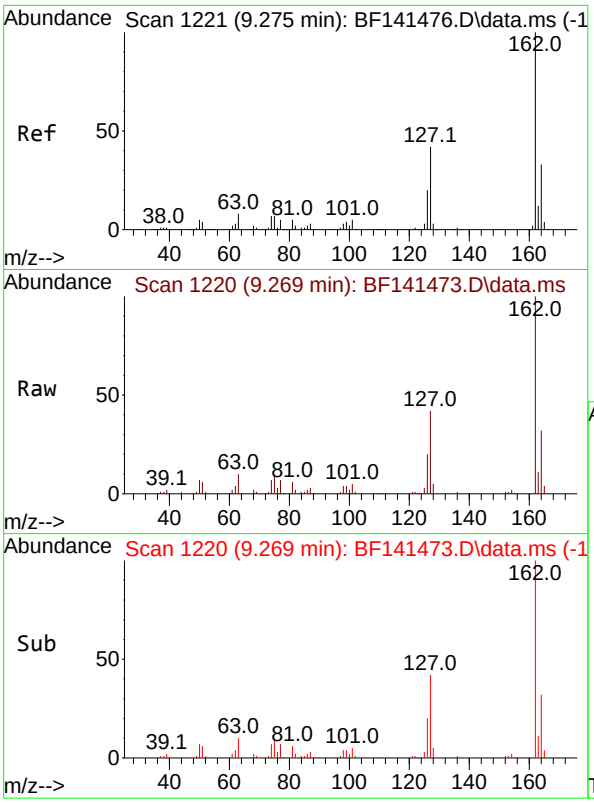


#46
1,1'-Biphenyl
Concen: 5.103 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:154 Resp: 78931

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	10.6	0.0	30.8



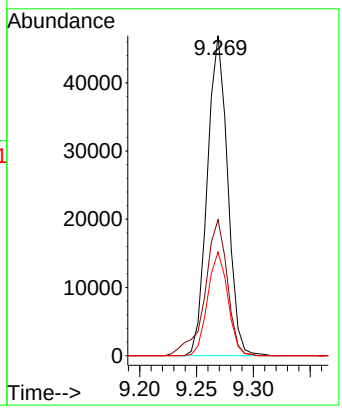


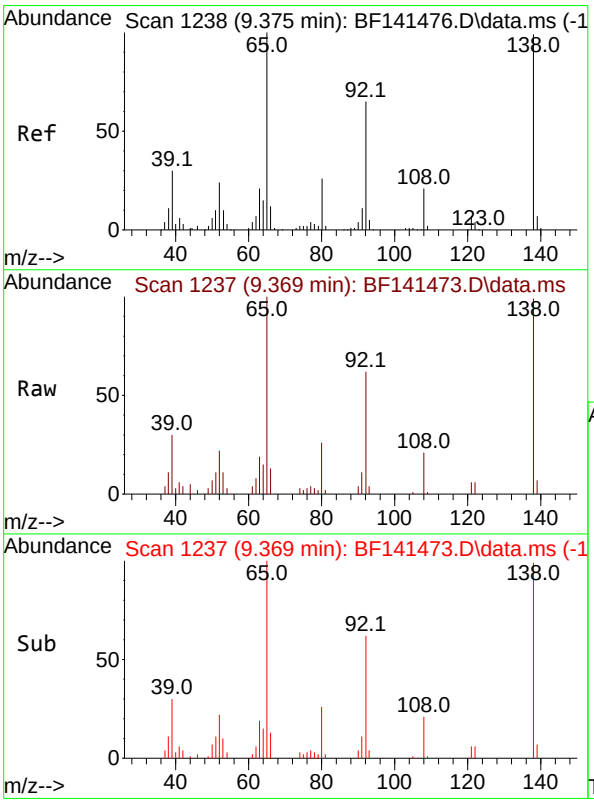
#47
2-Chloronaphthalene
Concen: 5.088 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 58201

Ion	Ratio	Lower	Upper
162	100		
127	42.5	34.1	51.1
164	32.4	26.3	39.5

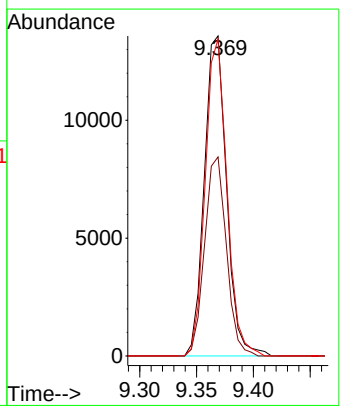


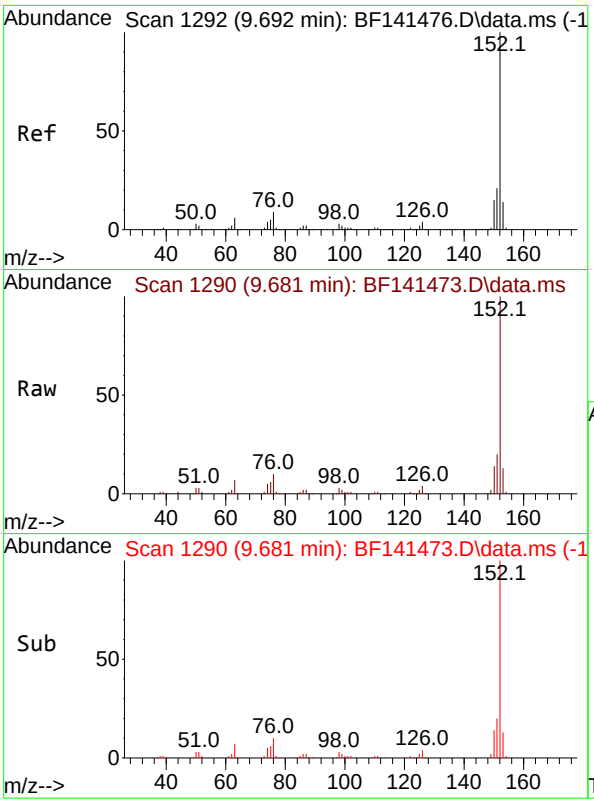


#48
2-Nitroaniline
Concen: 4.818 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 65 Resp: 18494

Ion	Ratio	Lower	Upper
65	100		
92	62.2	52.2	78.2
138	99.0	79.5	119.3



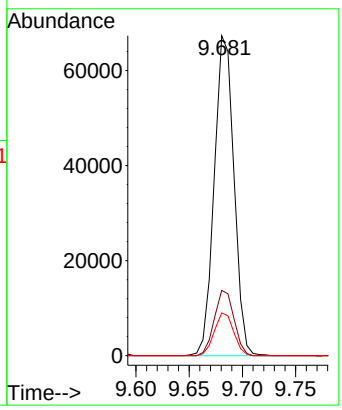


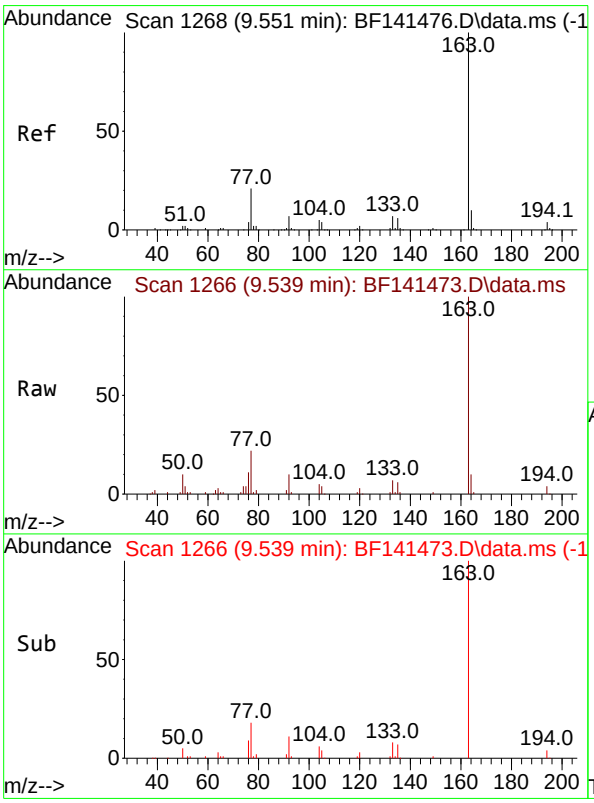
#49
Acenaphthylene
Concen: 5.097 ng
RT: 9.681 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 86721

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.4	24.6
153	13.4	10.9	16.3

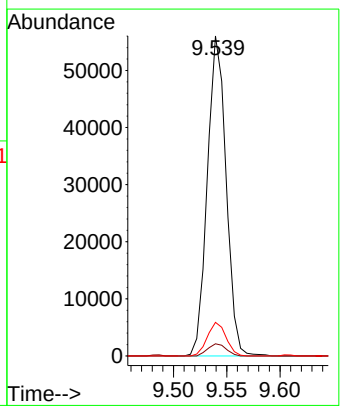


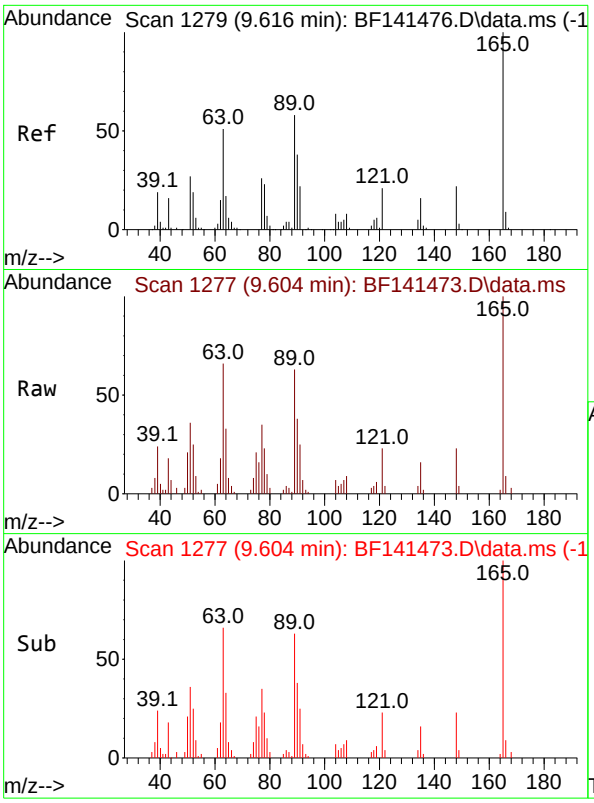


#50
Dimethylphthalate
Concen: 5.088 ng
RT: 9.539 min Scan# 1266
Delta R.T. -0.023 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:163 Resp: 68921

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.5	7.9	11.9



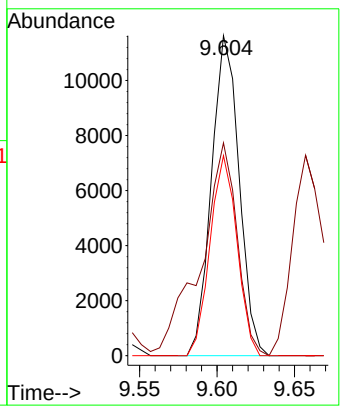


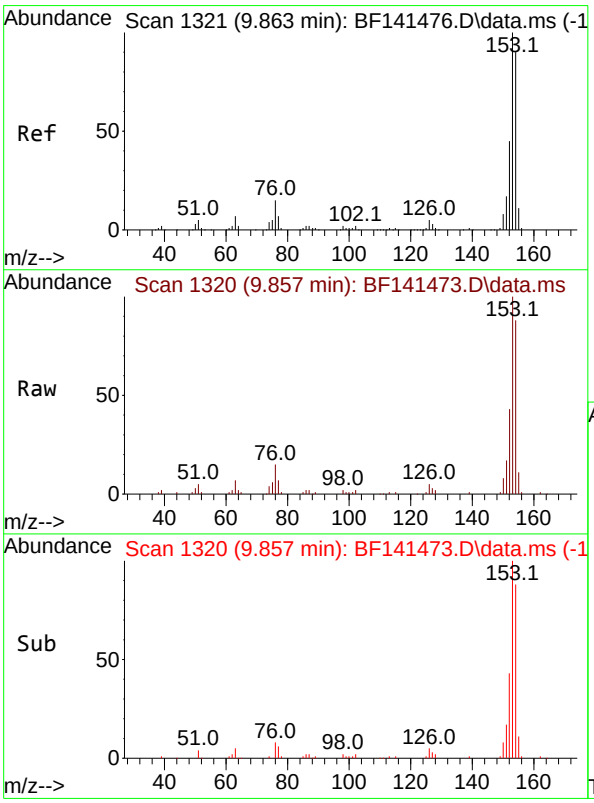
#51
2,6-Dinitrotoluene
Concen: 4.861 ng
RT: 9.604 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 14394

Ion	Ratio	Lower	Upper
165	100		
63	66.5	49.4	74.0
89	62.5	46.5	69.7

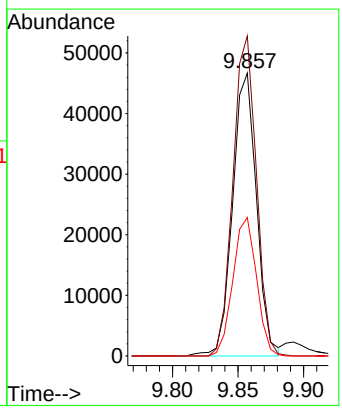


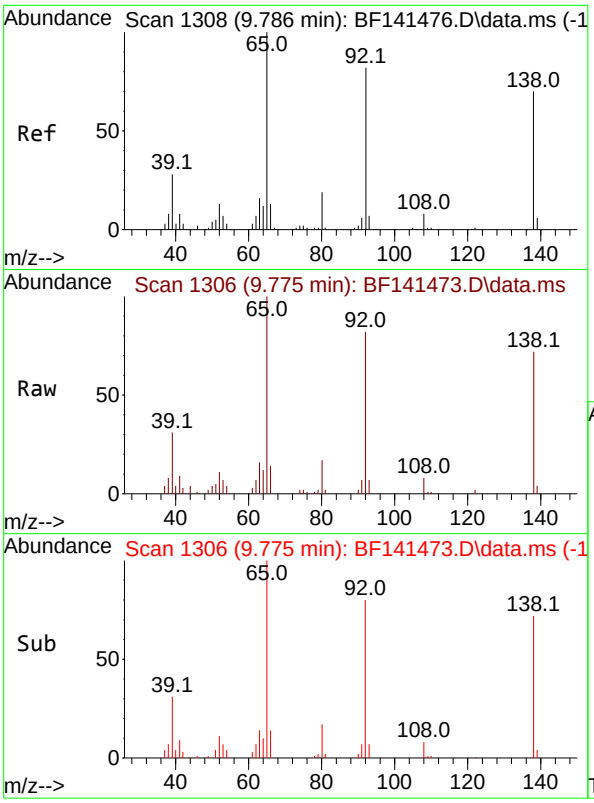


#52
Acenaphthene
Concen: 5.171 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:154 Resp: 59139

Ion	Ratio	Lower	Upper
154	100		
153	113.1	89.2	133.8
152	48.9	39.8	59.8



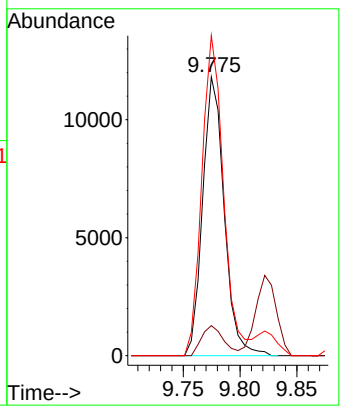


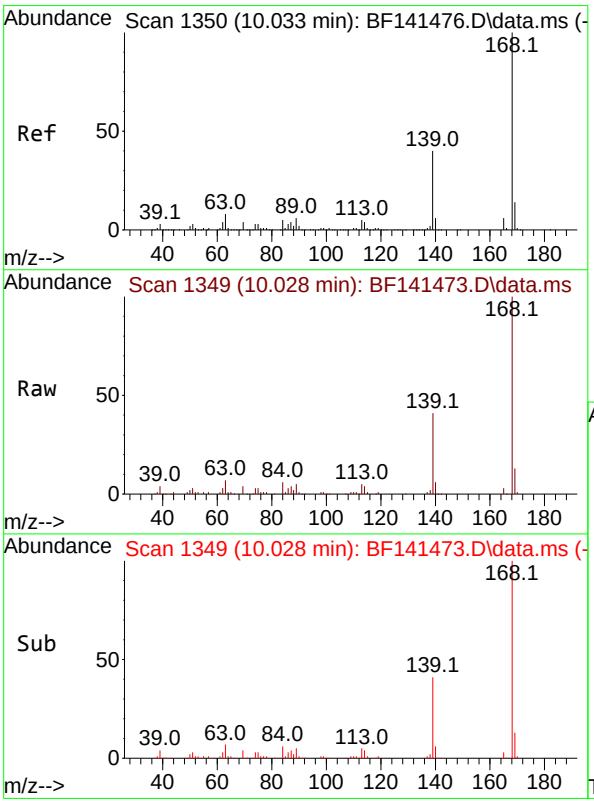
#53
3-Nitroaniline
Concen: 4.884 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 15563

Ion	Ratio	Lower	Upper
138	100		
108	10.8	9.0	13.4
92	114.8	93.7	140.5

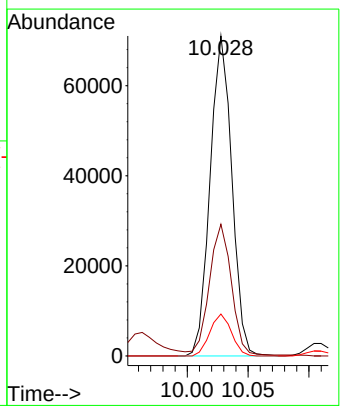


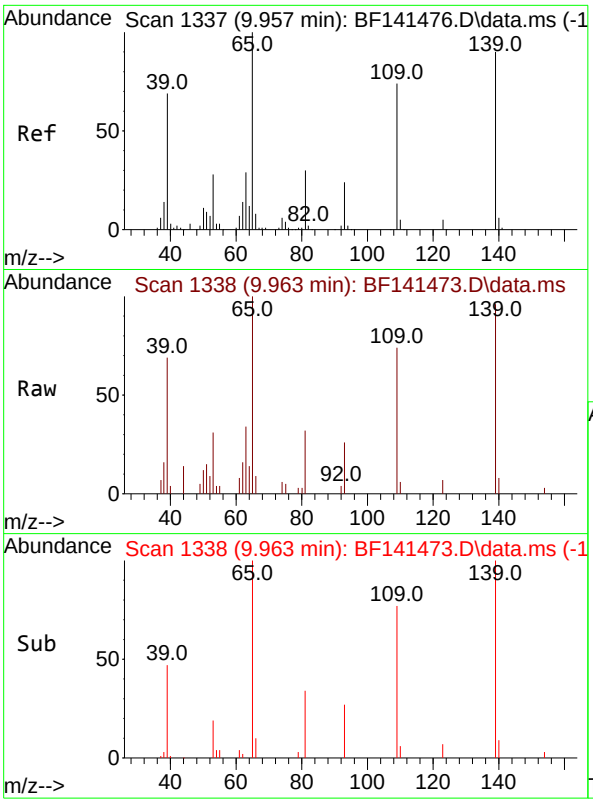


#55
Dibenzofuran
Concen: 5.252 ng
RT: 10.028 min Scan# 1349
Delta R.T. -0.011 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:168 Resp: 88178

Ion	Ratio	Lower	Upper
168	100		
139	41.2	32.7	49.1
169	13.1	10.8	16.2



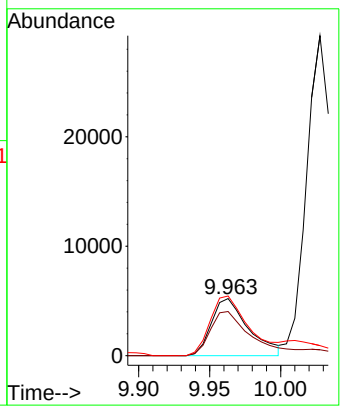


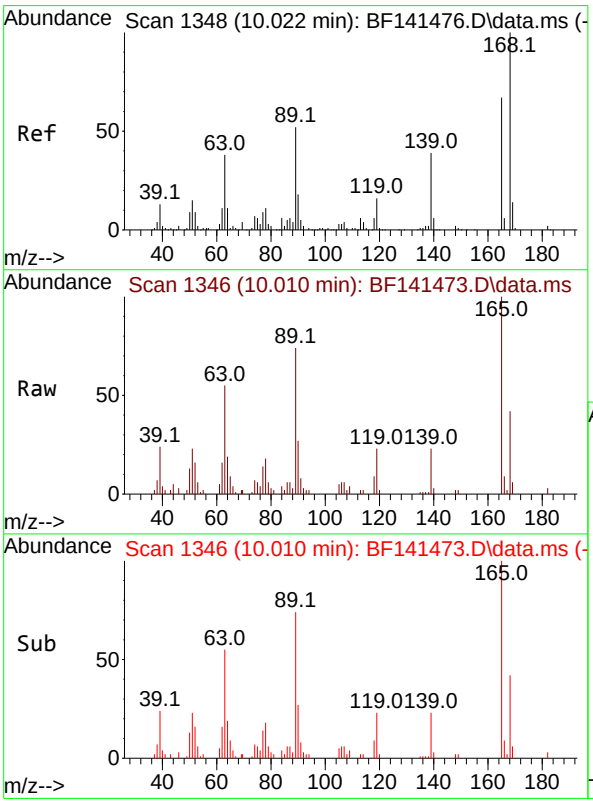
#56
4-Nitrophenol
Concen: 4.008 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:139 Resp: 9482

Ion	Ratio	Lower	Upper
139	100		
109	77.2	62.0	102.0
65	104.4	91.2	131.2

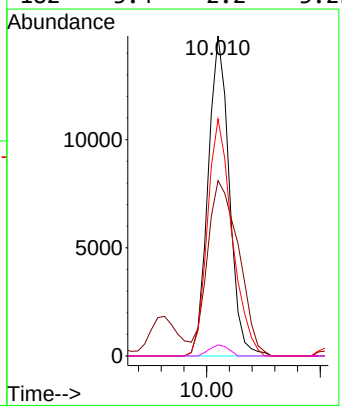


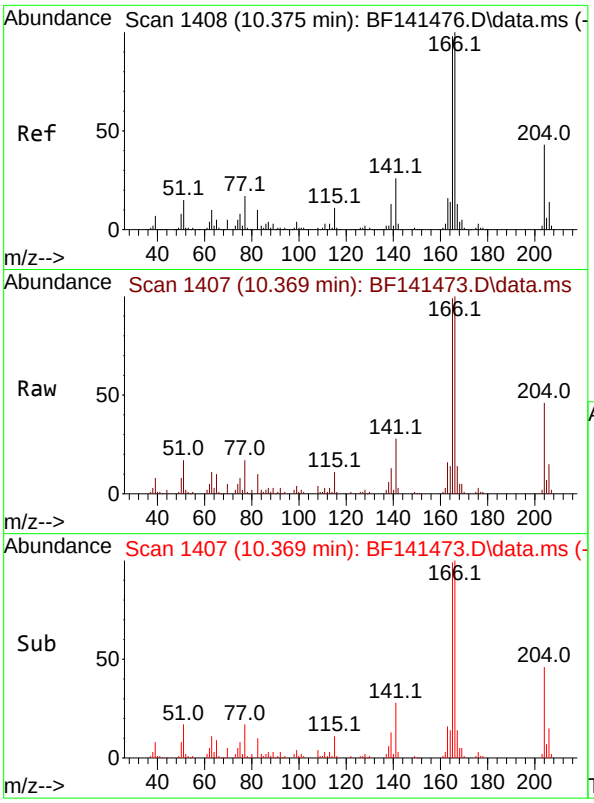


#57
2,4-Dinitrotoluene
Concen: 4.842 ng
RT: 10.010 min Scan# 1346
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:165 Resp: 19087

Ion	Ratio	Lower	Upper
165	100		
63	54.8	46.4	69.6
89	74.0	61.8	92.6
182	3.4	2.2	3.2#



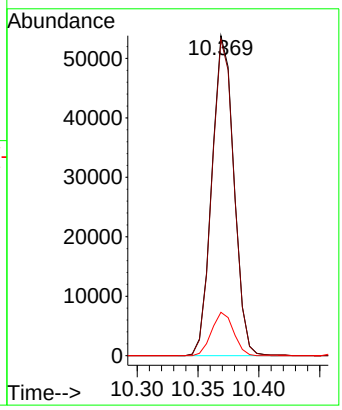


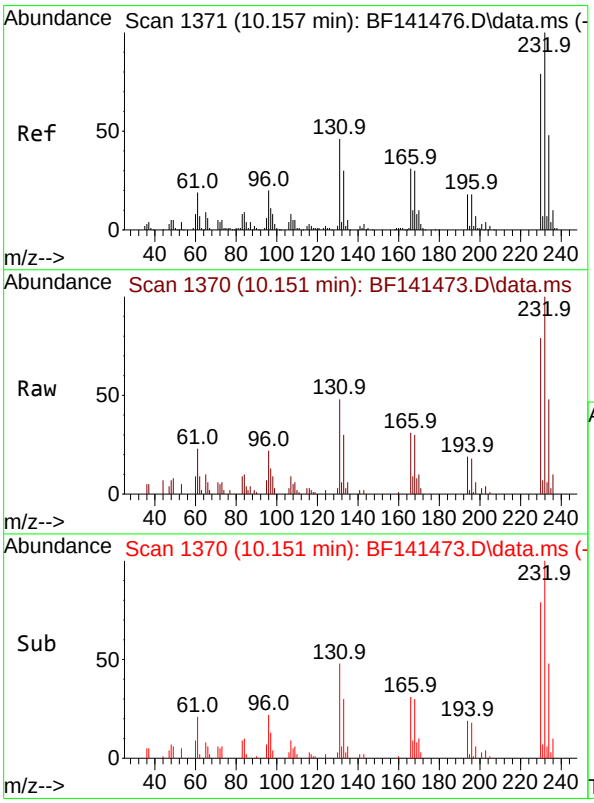
#58
Fluorene
Concen: 5.220 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:166 Resp: 67764

Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.2	117.2
167	13.5	10.7	16.1

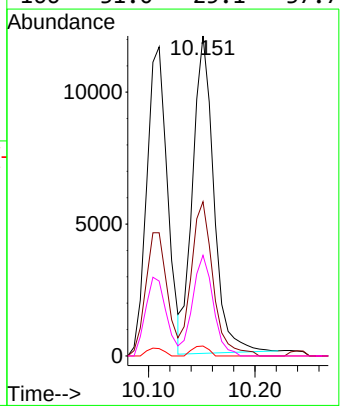


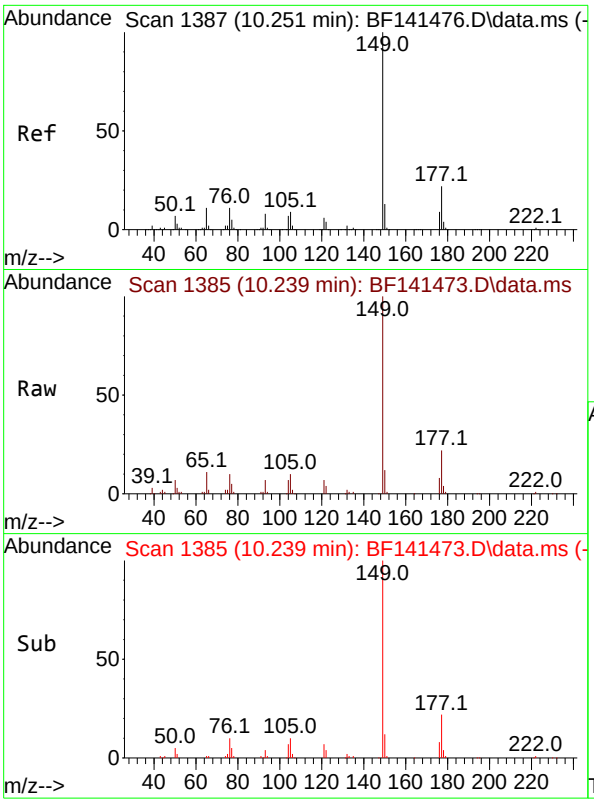


#59
2,3,4,6-Tetrachlorophenol
Concen: 4.760 ng
RT: 10.151 min Scan# 1370
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:232 Resp: 16570

Ion	Ratio	Lower	Upper
232	100		
131	50.2	39.2	58.8
130	2.5	2.1	3.1
166	31.0	25.1	37.7



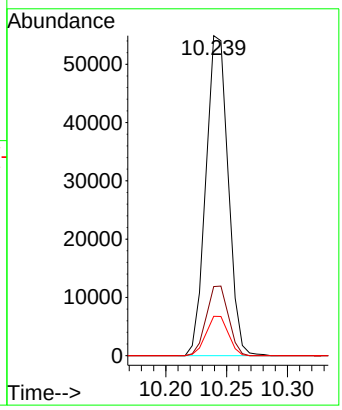


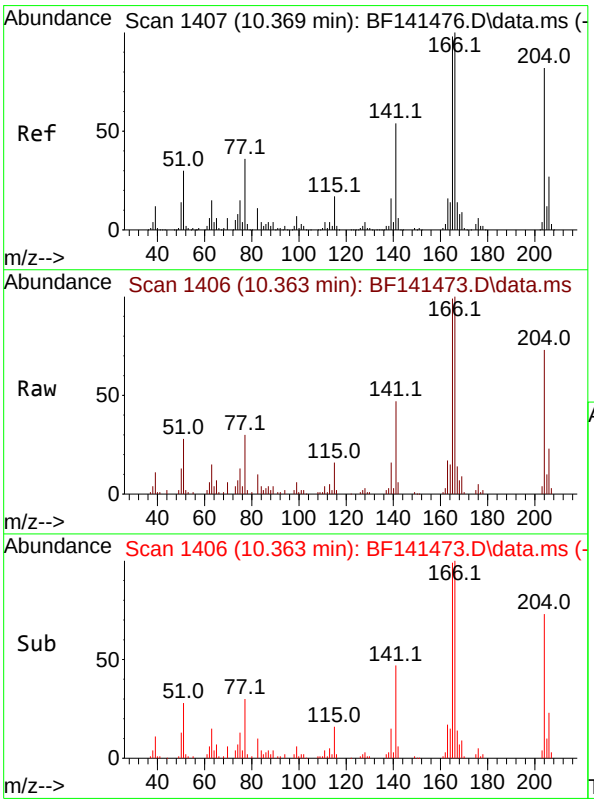
#60
Diethylphthalate
Concen: 5.241 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 69845

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.8	26.6
150	12.3	10.1	15.1

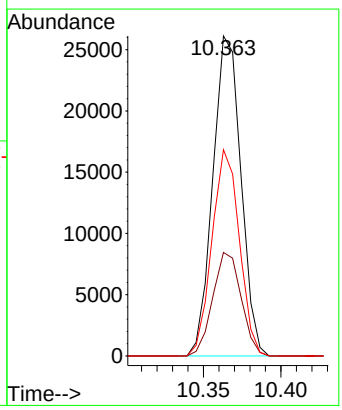


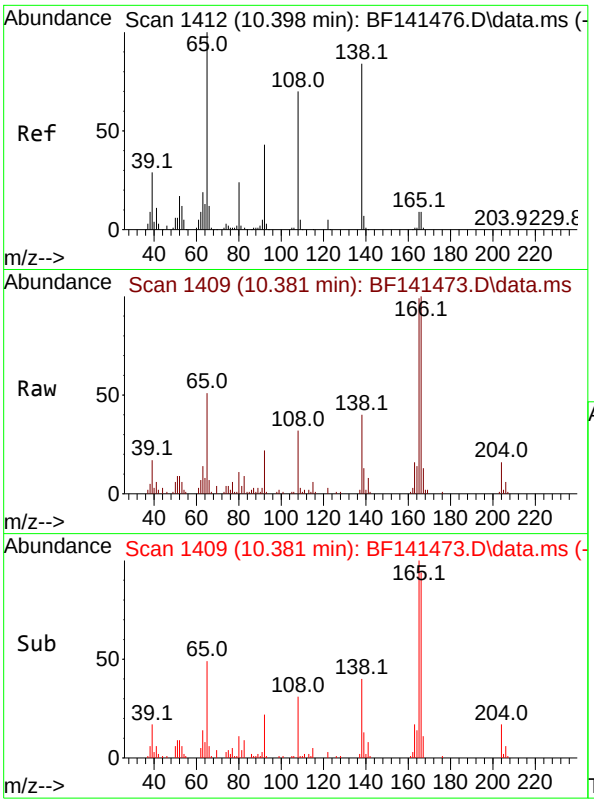


#61
4-Chlorophenyl-phenylether
Concen: 5.277 ng
RT: 10.363 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:204 Resp: 32951

Ion	Ratio	Lower	Upper
204	100		
206	32.3	26.6	40.0
141	64.4	51.9	77.9



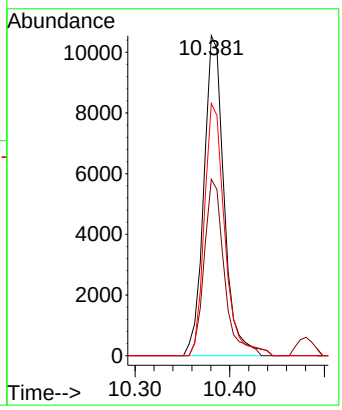


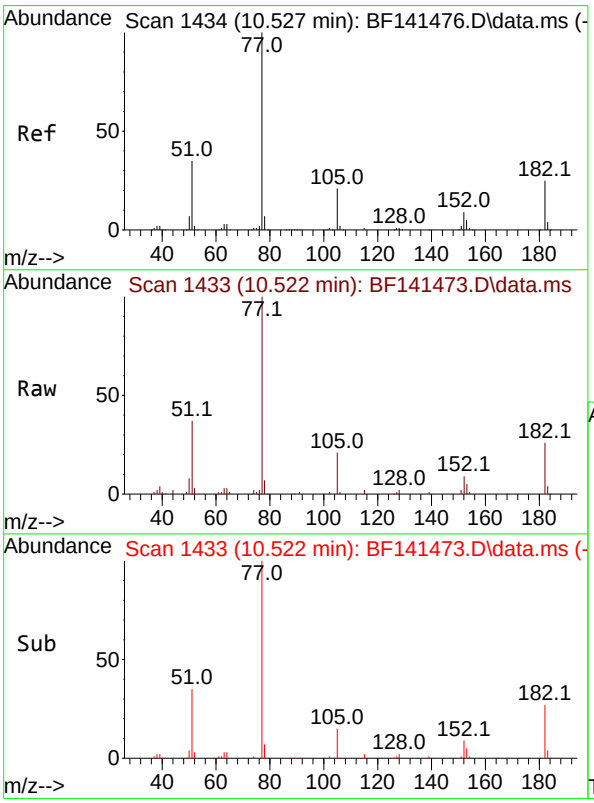
#62
4-Nitroaniline
Concen: 4.855 ng
RT: 10.381 min Scan# 14
Delta R.T. -0.035 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 15711

Ion	Ratio	Lower	Upper
138	100		
92	55.1	31.3	71.3
108	78.8	63.7	103.7

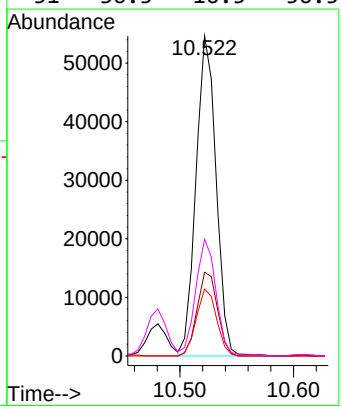


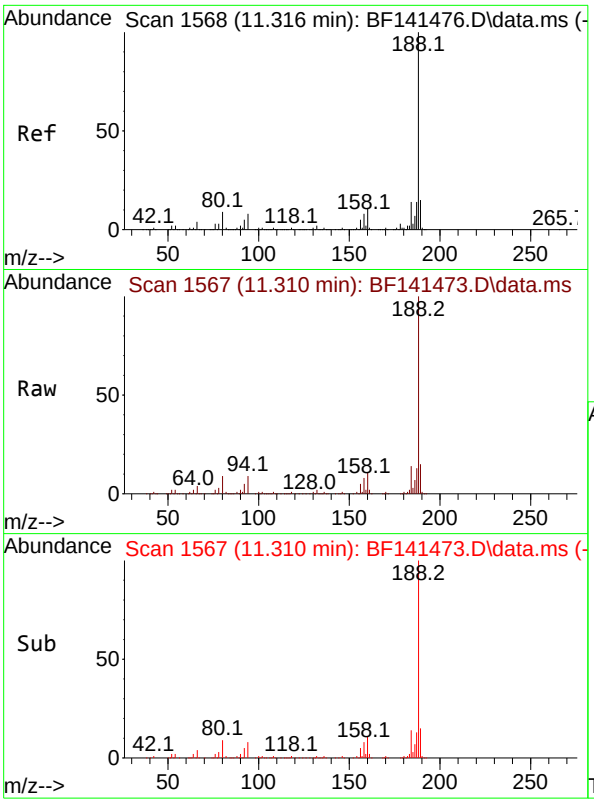


#63
Azobenzene
Concen: 5.077 ng
RT: 10.522 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 77 Resp: 67256

Ion	Ratio	Lower	Upper
77	100		
182	26.2	4.7	44.7
105	20.9	0.4	40.4
51	36.5	16.5	56.5



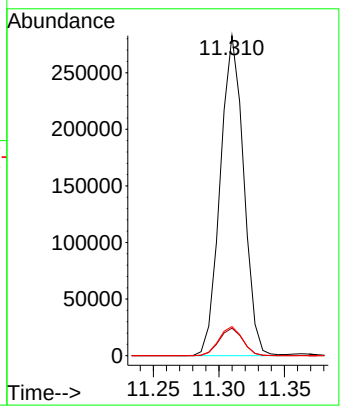


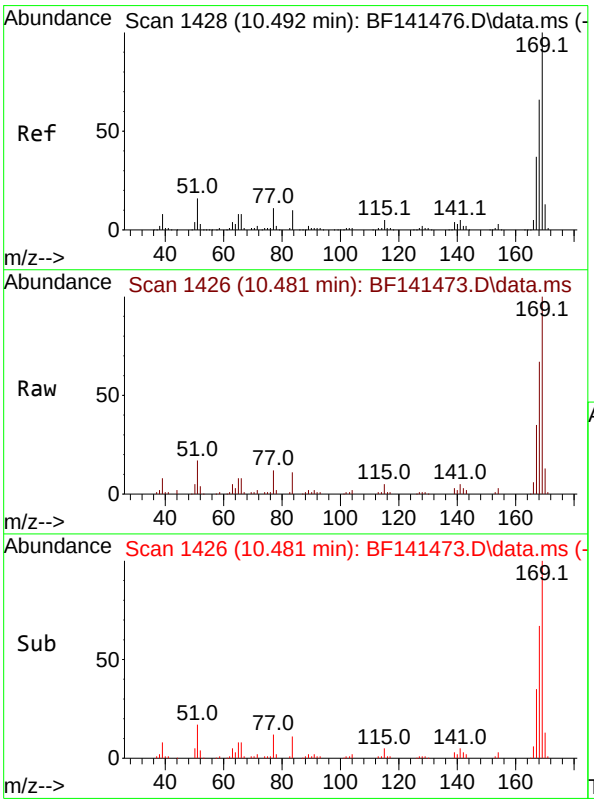
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:188 Resp: 351213

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.1	7.3	10.9

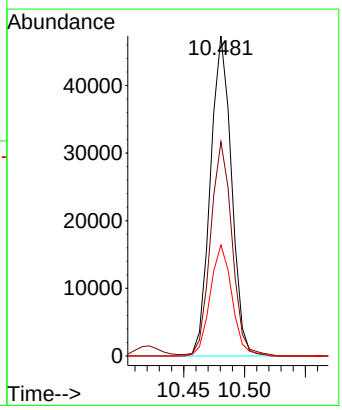


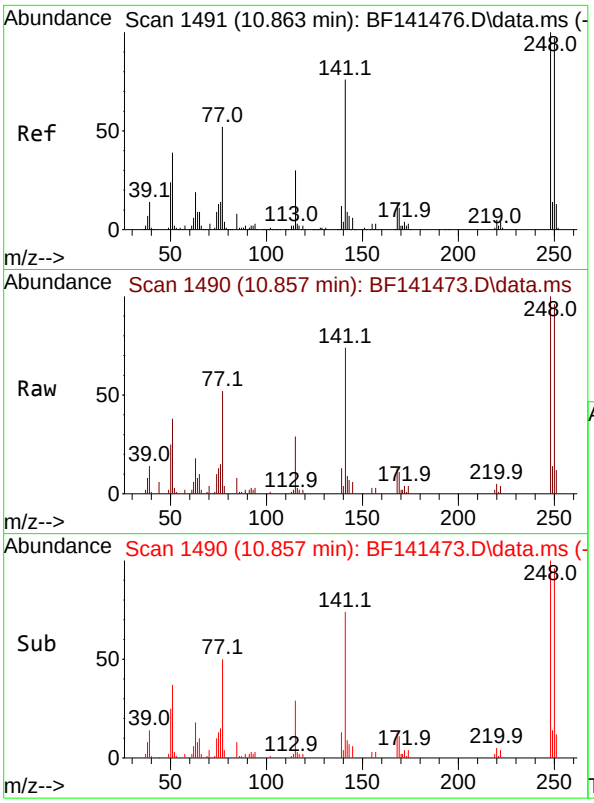


#66
n-Nitrosodiphenylamine
Concen: 5.076 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:169 Resp: 57063

Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.3	79.9
167	34.7	29.4	44.2



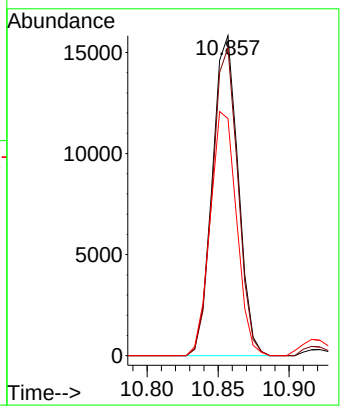


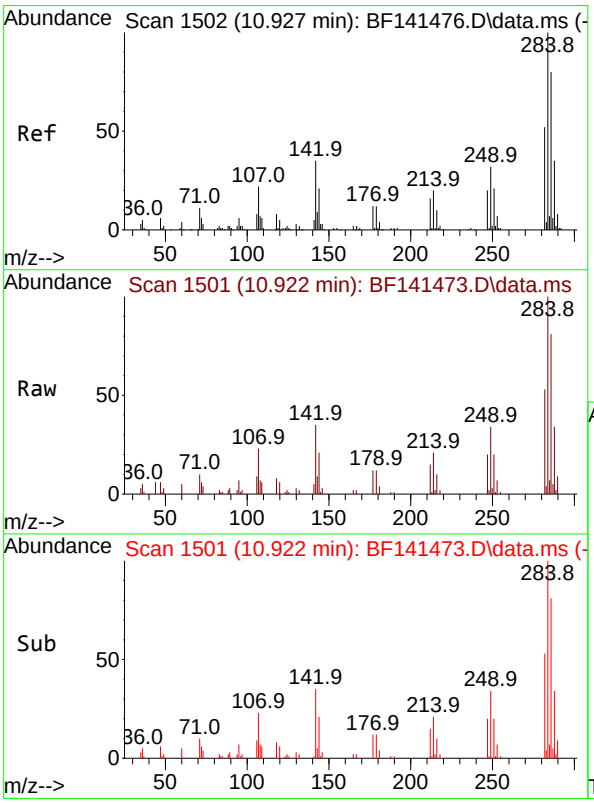
#67
4-Bromophenyl-phenylether
Concen: 5.098 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:248 Resp: 20012

Ion	Ratio	Lower	Upper
248	100		
250	96.2	77.8	116.6
141	74.1	60.6	90.8

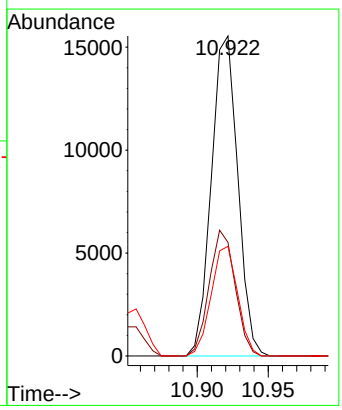


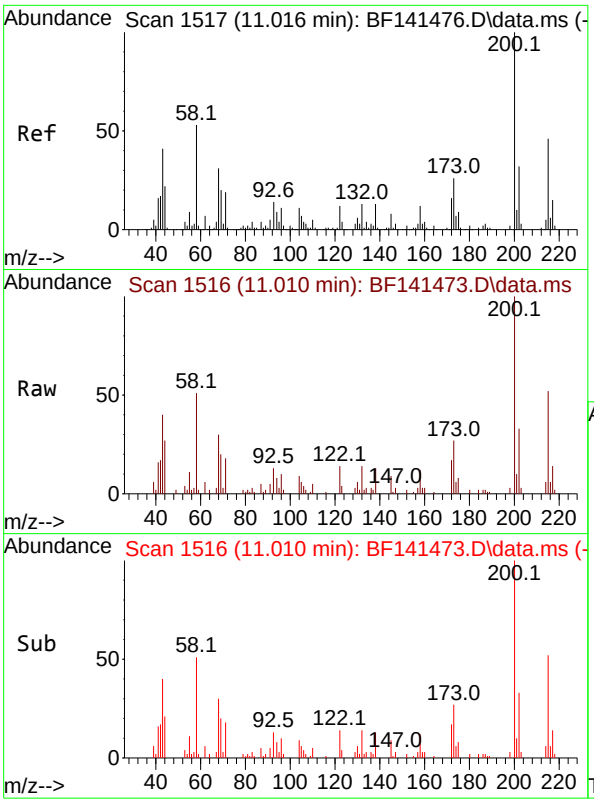


#68
Hexachlorobenzene
Concen: 4.982 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:284 Resp: 20138

Ion	Ratio	Lower	Upper
284	100		
142	35.5	28.0	42.0
249	34.3	25.8	38.8



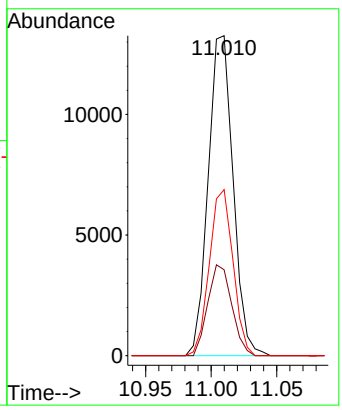


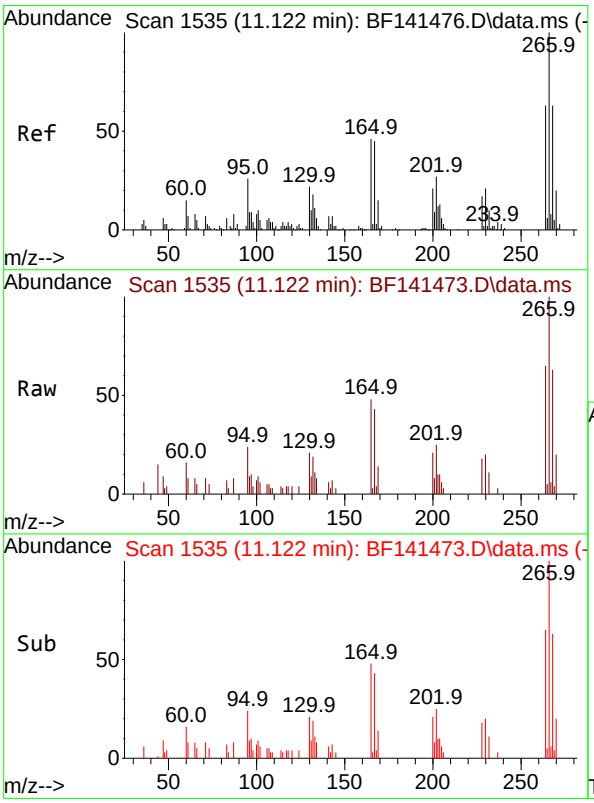
#69
Atrazine
Concen: 5.194 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:200 Resp: 17519

Ion	Ratio	Lower	Upper
200	100		
173	26.9	5.9	45.9
215	51.9	25.9	65.9

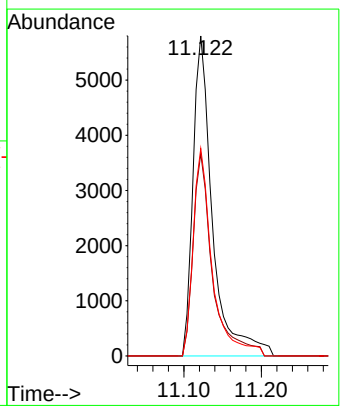


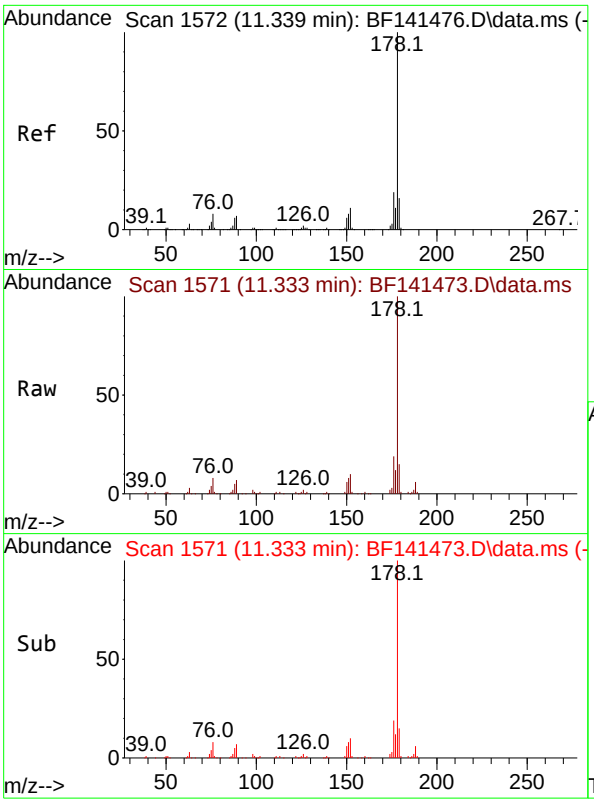


#70
Pentachlorophenol
Concen: 3.928 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:266 Resp: 10151

Ion	Ratio	Lower	Upper
266	100		
268	63.2	50.1	75.1
264	64.8	50.1	75.1



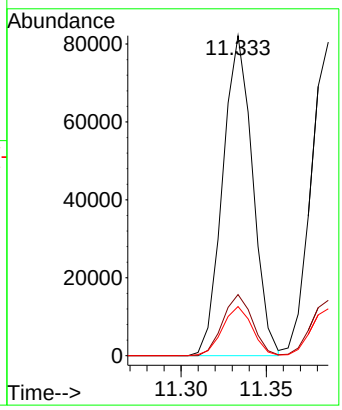


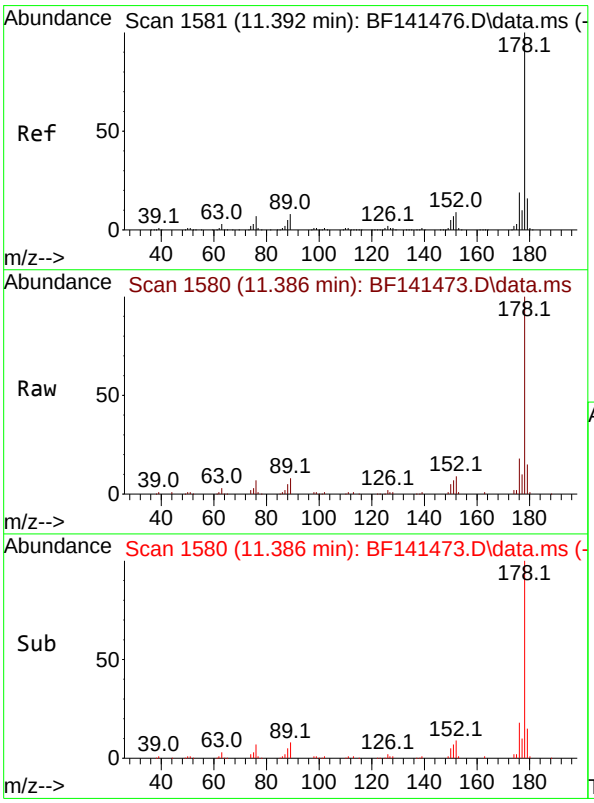
#71
Phenanthrene
Concen: 5.183 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 100202

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.4	12.4	18.6

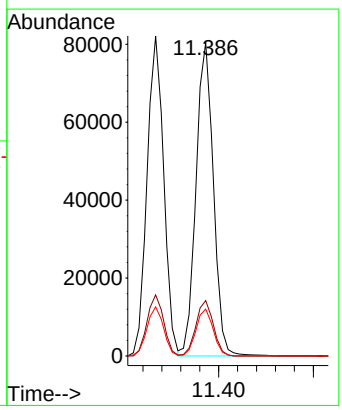


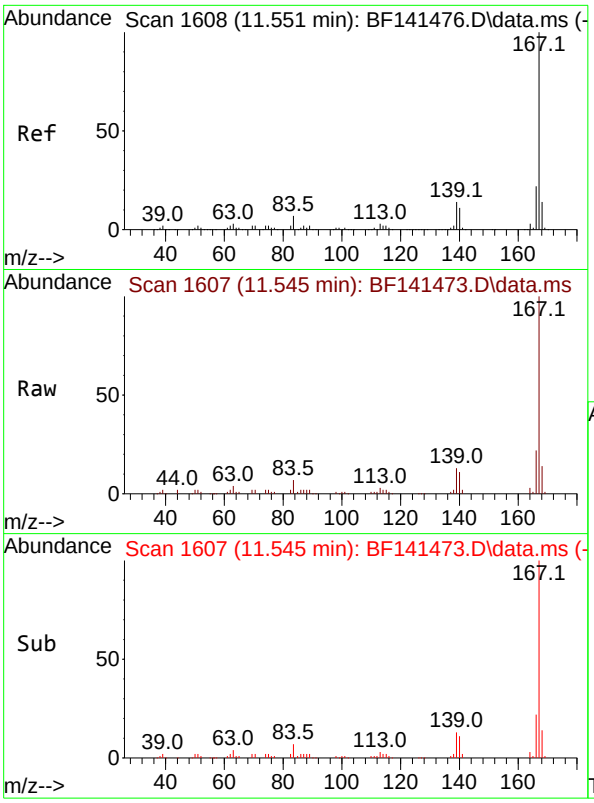


#72
Anthracene
Concen: 5.279 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:178 Resp: 102596

Ion	Ratio	Lower	Upper
178	100		
176	17.6	14.8	22.2
179	15.0	12.4	18.6



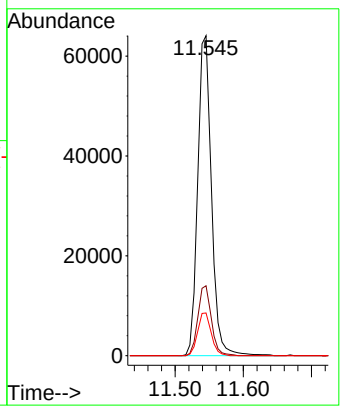


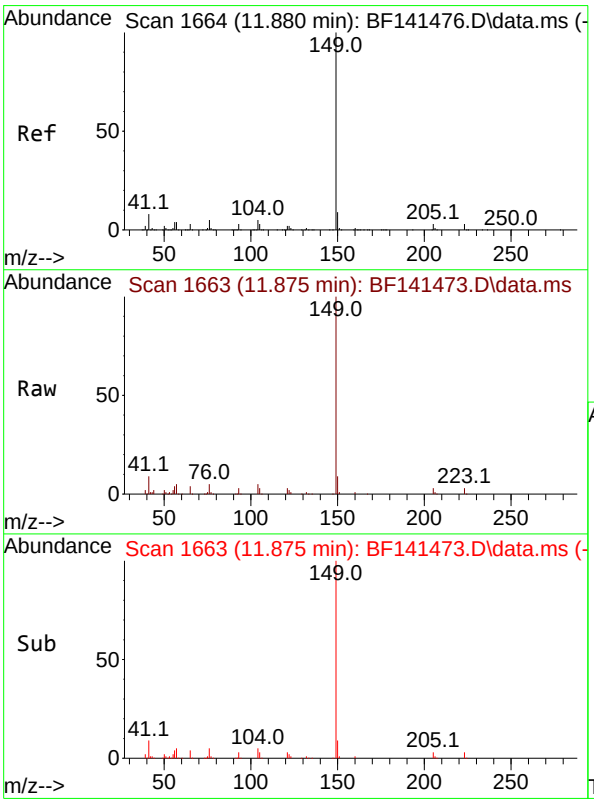
#73
Carbazole
Concen: 5.131 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:167 Resp: 89721

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.4	26.2
139	13.4	10.9	16.3

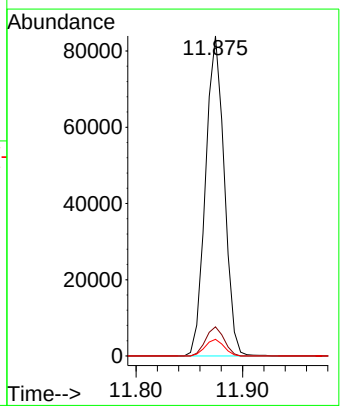


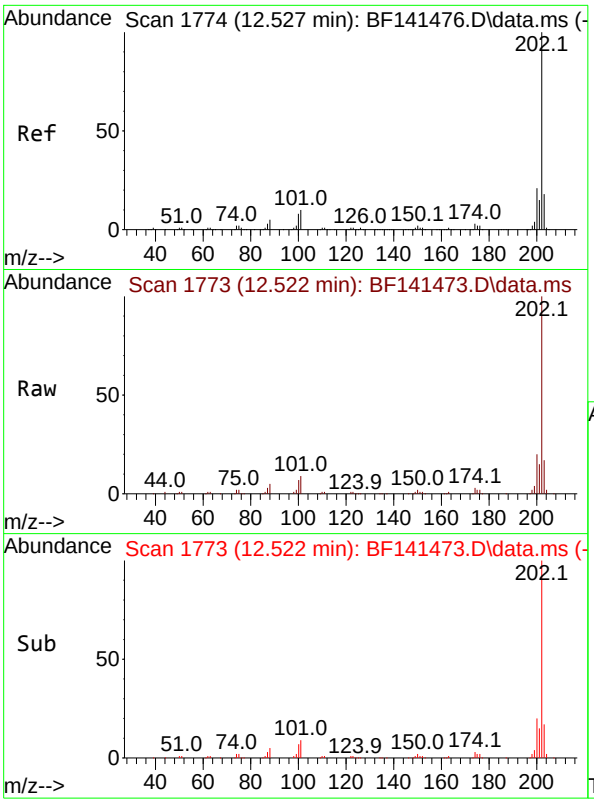


#74
Di-n-butylphthalate
Concen: 5.066 ng
RT: 11.875 min Scan# 1663
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:149 Resp: 102296

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.2	6.2



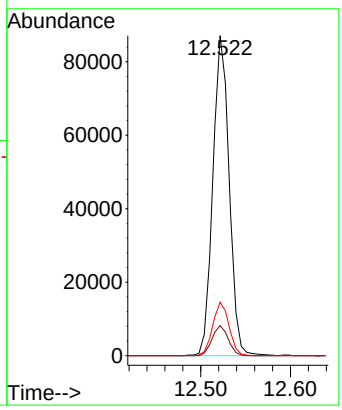


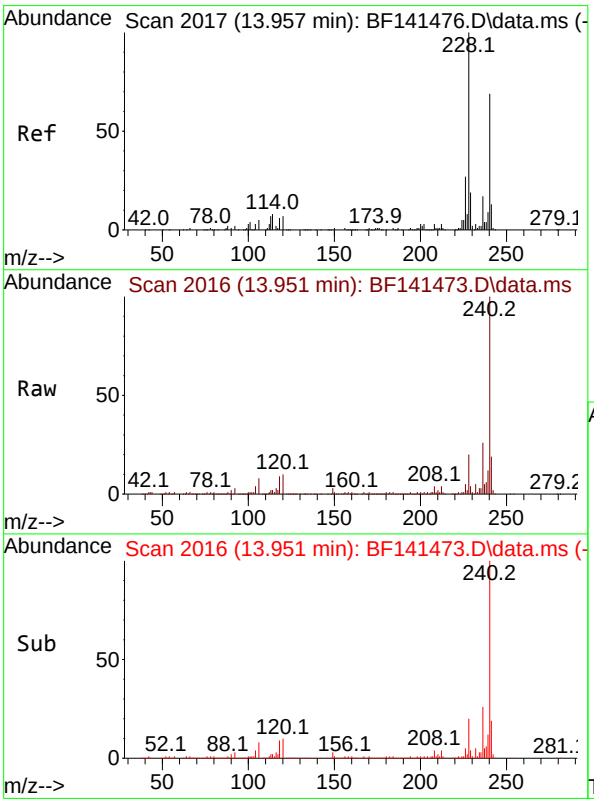
#75
Fluoranthene
Concen: 5.361 ng
RT: 12.522 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 109883

Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	30.2
203	16.7	0.0	37.6

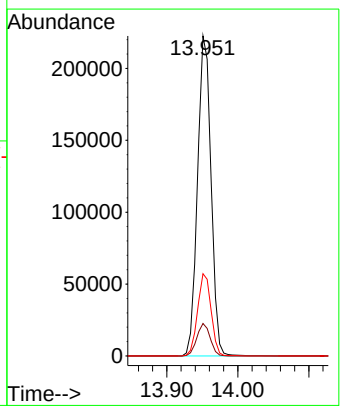


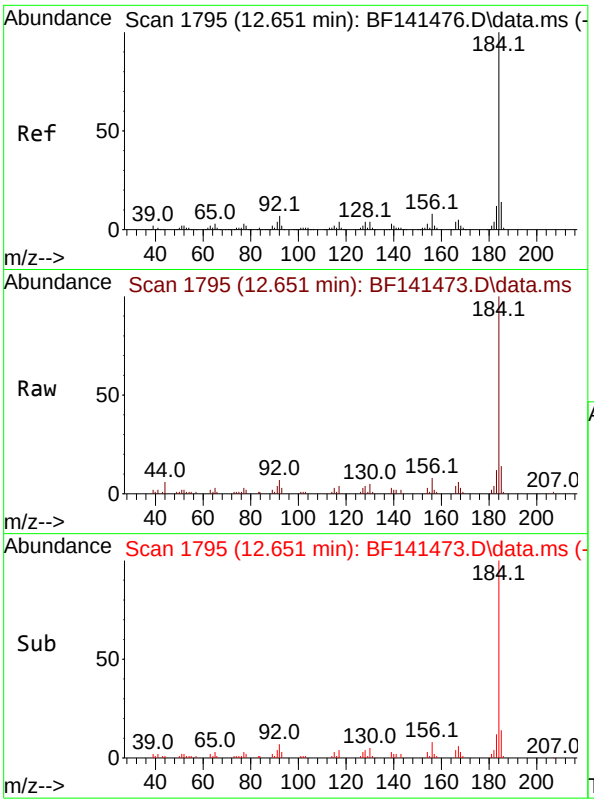


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:240 Resp: 295087

Ion	Ratio	Lower	Upper
240	100		
120	10.2	8.0	12.0
236	25.7	19.8	29.8



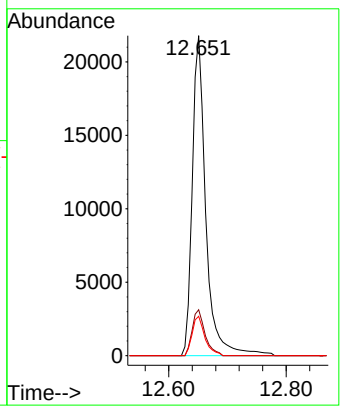


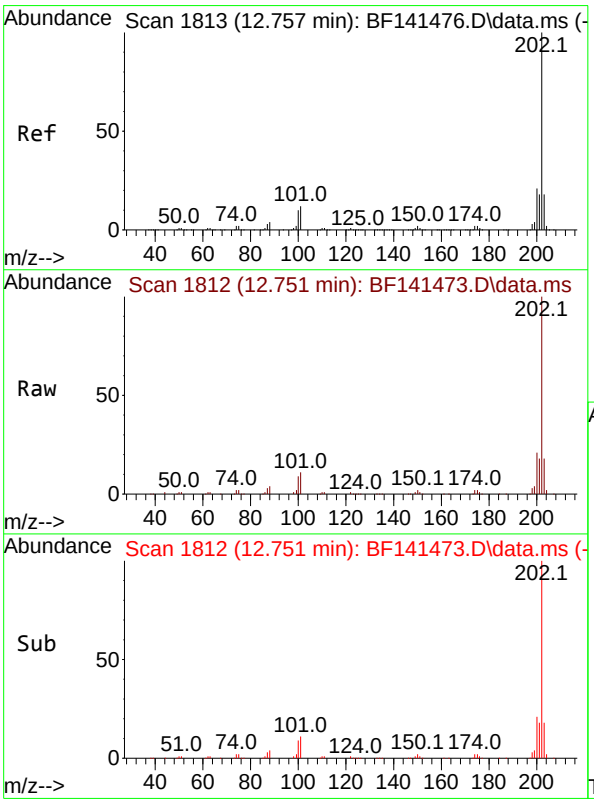
#77
Benzidine
Concen: 5.370 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:184 Resp: 34946

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.3	16.9
183	12.3	9.3	13.9

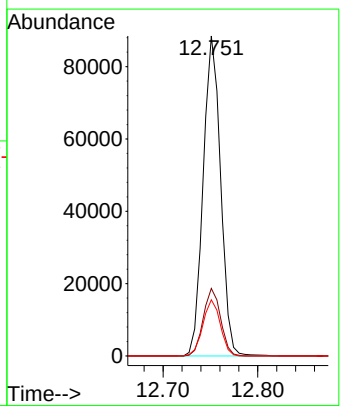


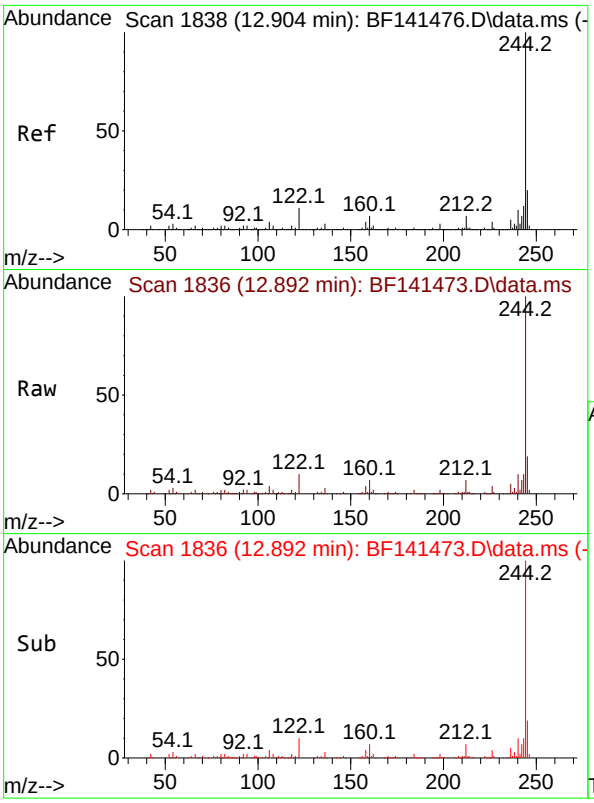


#78
Pyrene
Concen: 4.486 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:202 Resp: 112700

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.6	14.3	21.5



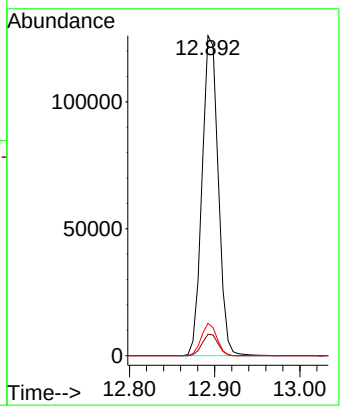


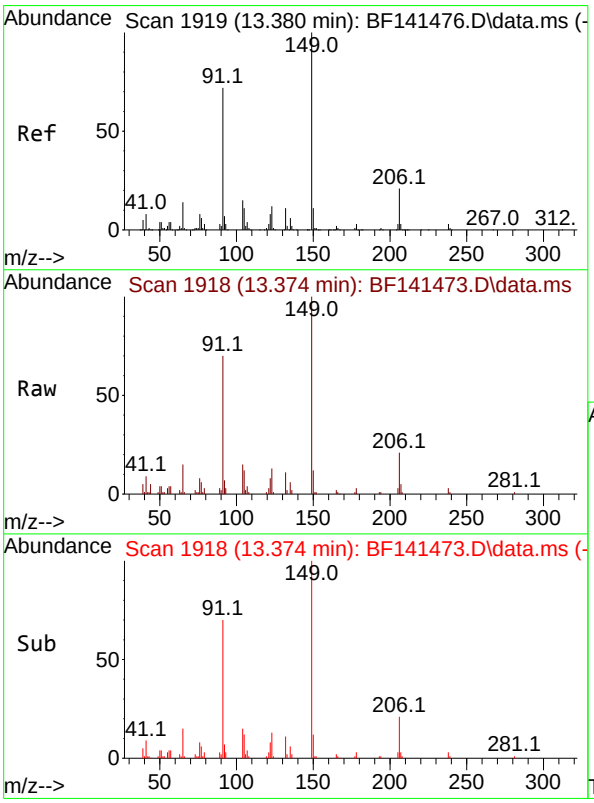
#79
Terphenyl-d14
Concen: 9.531 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:244 Resp: 166601

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.1	8.4	12.6

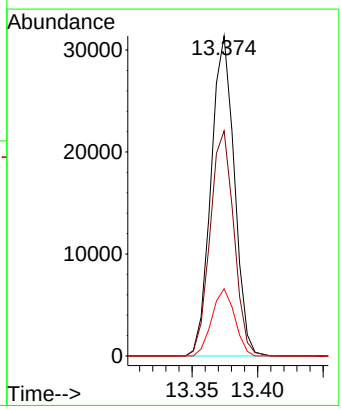


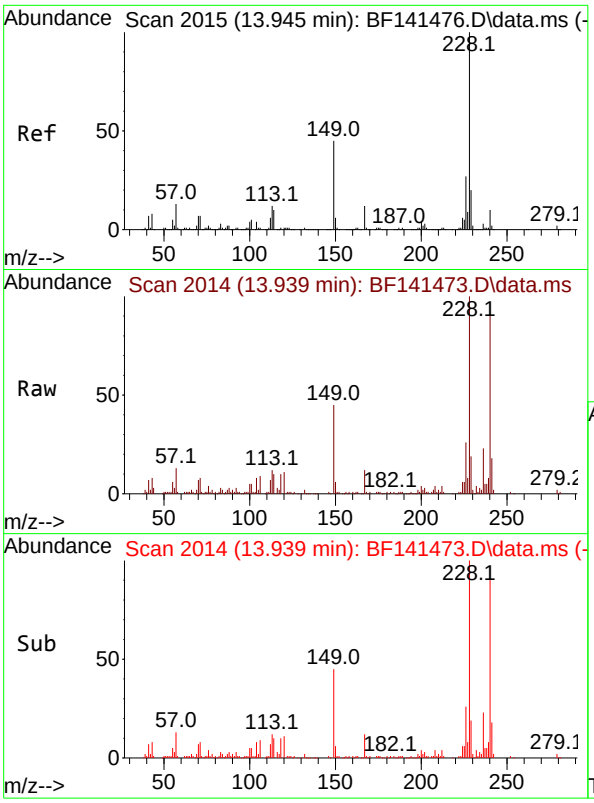


#80
Butylbenzylphthalate
Concen: 4.449 ng
RT: 13.374 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:149 Resp: 38714

Ion	Ratio	Lower	Upper
149	100		
91	70.4	57.8	86.8
206	21.0	16.7	25.1



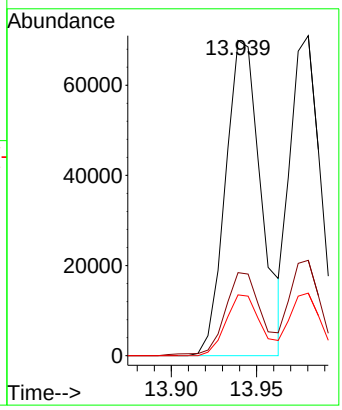


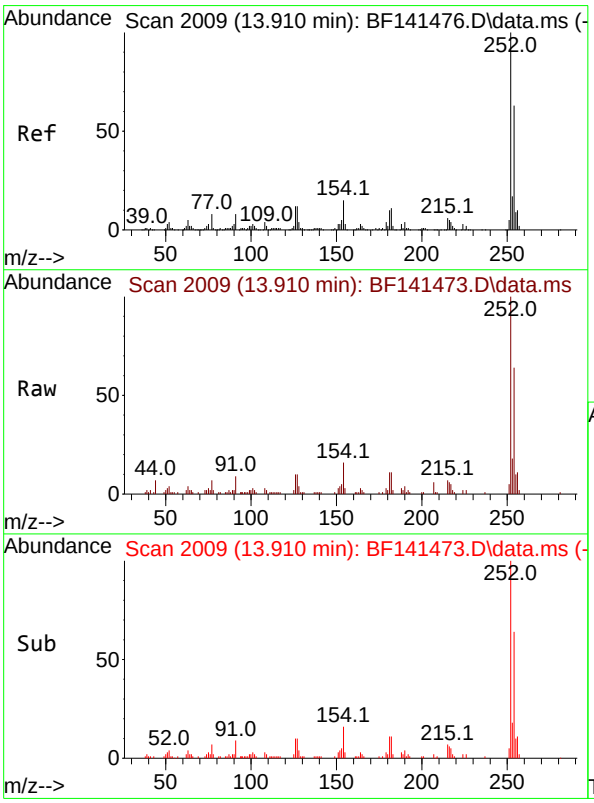
#81
Benzo(a)anthracene
Concen: 5.193 ng
RT: 13.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 101861

Ion	Ratio	Lower	Upper
228	100		
226	26.4	21.8	32.8
229	19.3	15.8	23.6

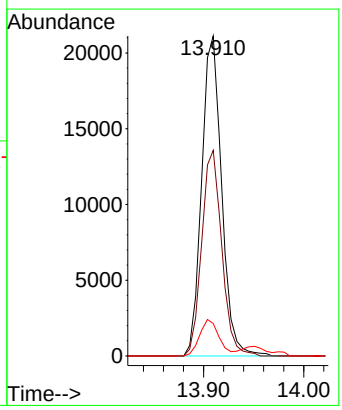


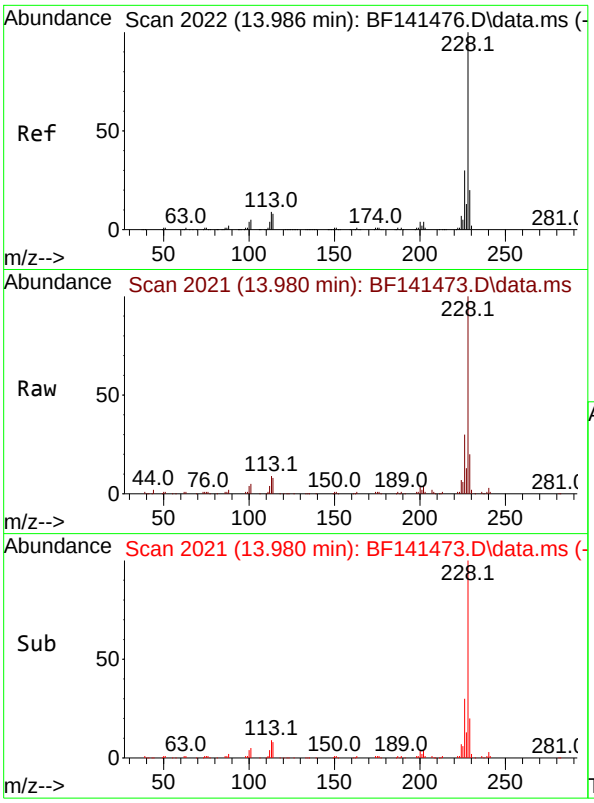


#82
3,3'-Dichlorobenzidine
Concen: 5.216 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:252 Resp: 29306

Ion	Ratio	Lower	Upper
252	100		
254	64.2	50.6	76.0
126	10.2	9.3	13.9



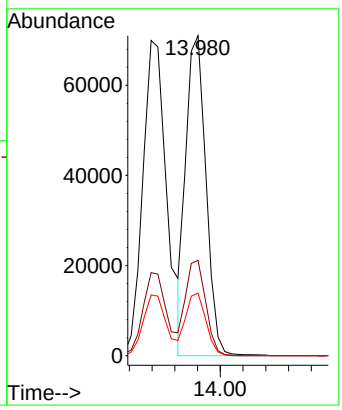


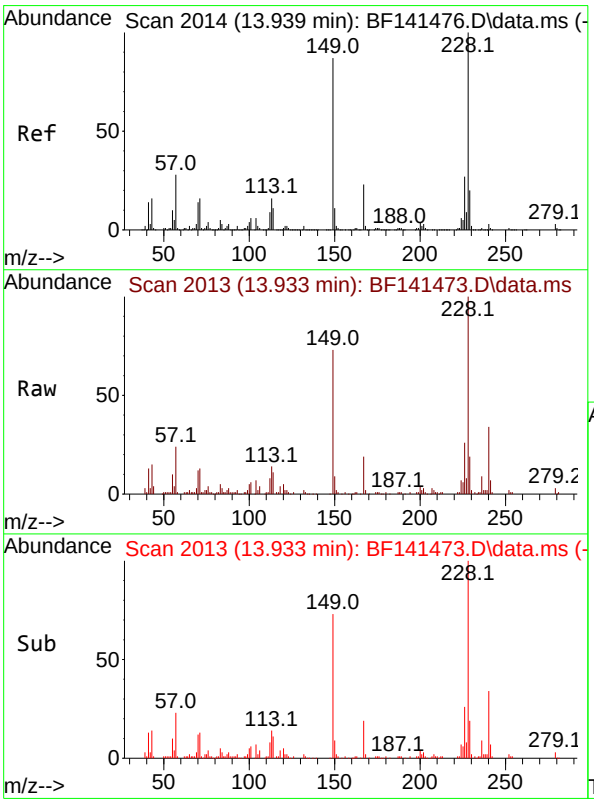
#83
Chrysene
Concen: 4.834 ng
RT: 13.980 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 87555

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.0	36.0
229	19.5	15.7	23.5

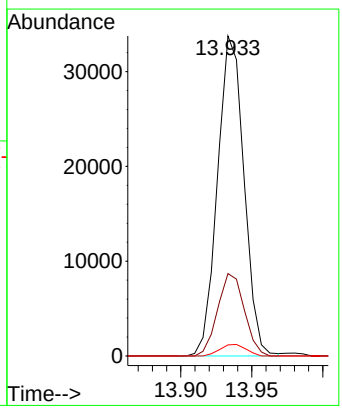


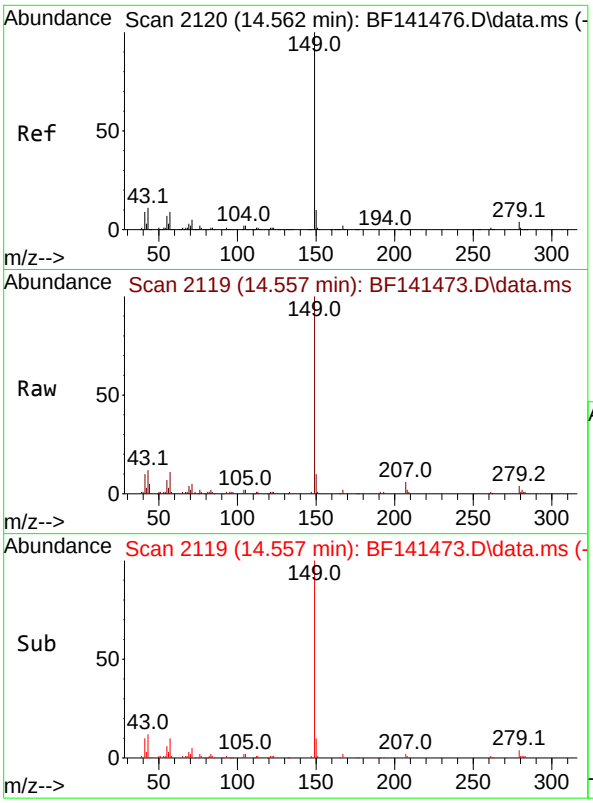


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.457 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:149 Resp: 43735

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.4	32.0
279	3.4	3.1	4.7



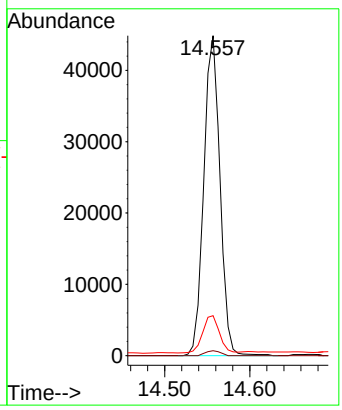


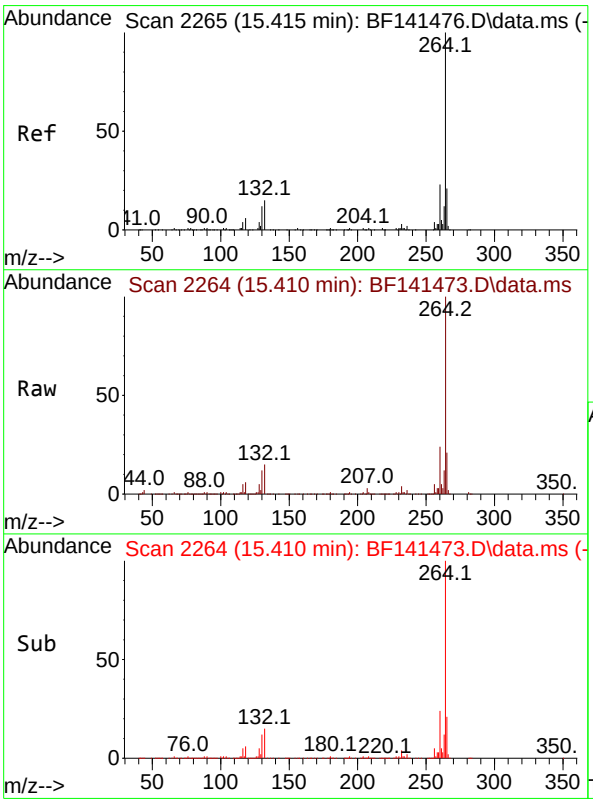
#85
Di-n-octyl phthalate
Concen: 4.229 ng
RT: 14.557 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 59200

Ion	Ratio	Lower	Upper
149	100		
167	1.4	1.3	1.9
43	12.0	9.5	14.3

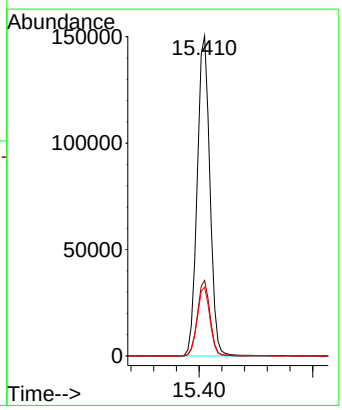


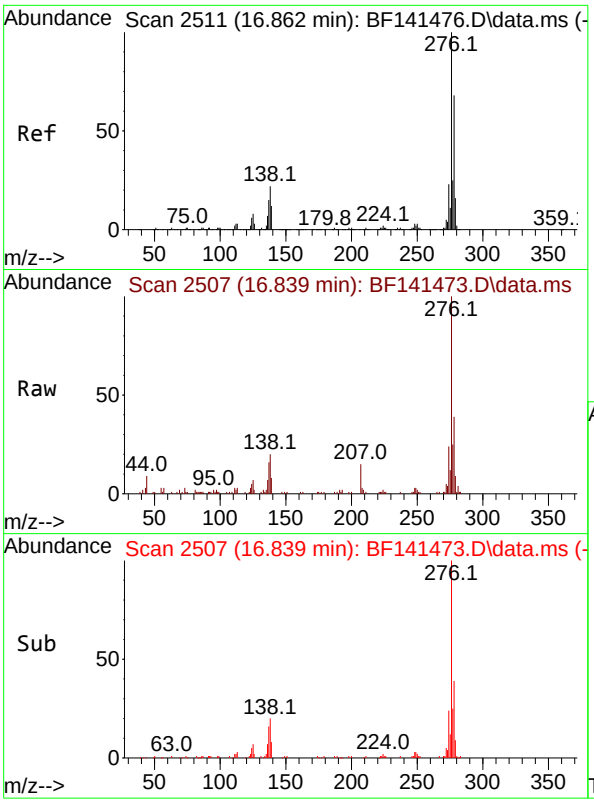


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2264
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:264 Resp: 233325

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.5	17.0	25.4



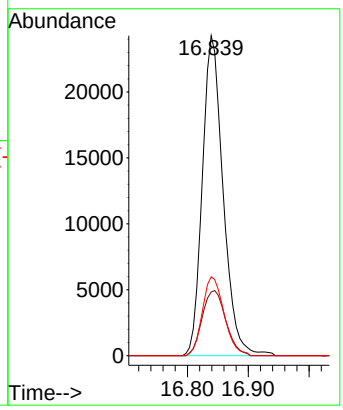


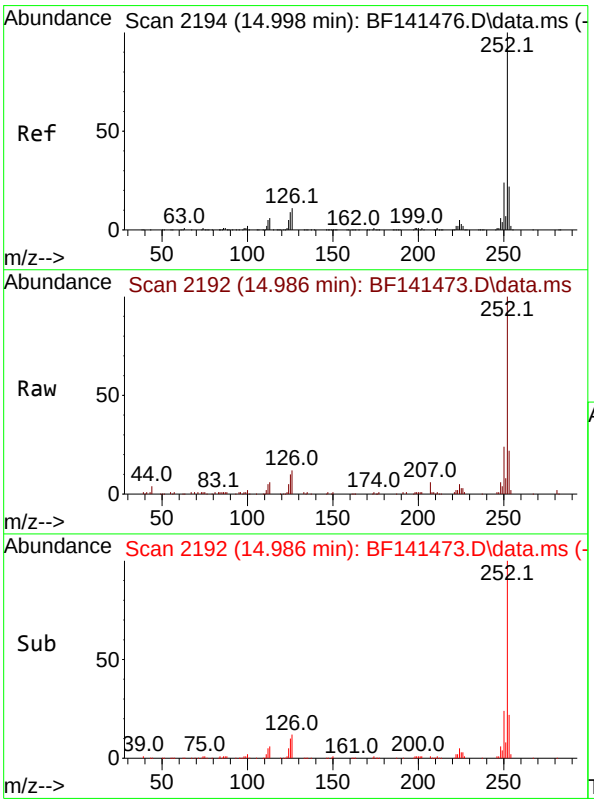
#87
Indeno(1,2,3-cd)pyrene
Concen: 3.993 ng
RT: 16.839 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 57572

Ion	Ratio	Lower	Upper
276	100		
138	23.1	18.0	27.0
277	25.6	20.4	30.6

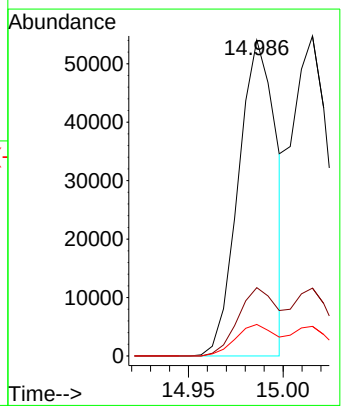


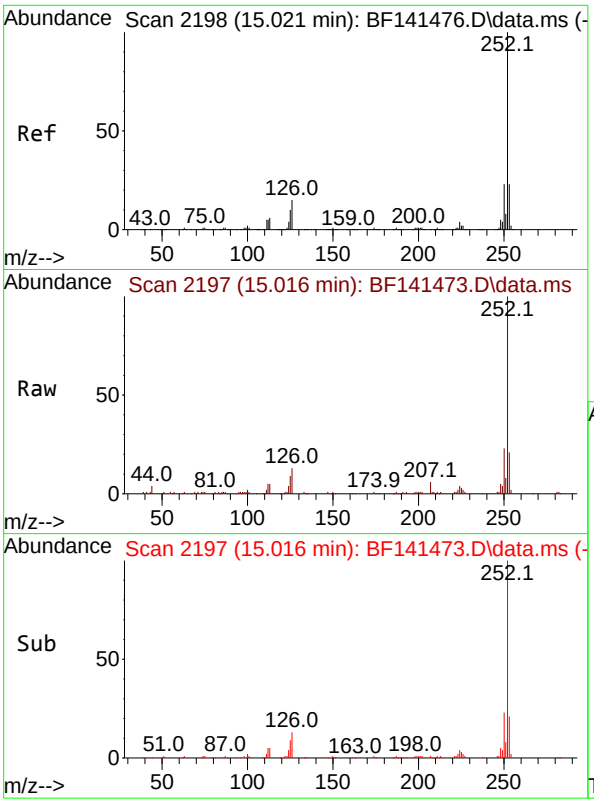


#88
Benzo(b)fluoranthene
Concen: 4.789 ng
RT: 14.986 min Scan# 2192
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:252 Resp: 75033

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	10.0	7.0	10.6



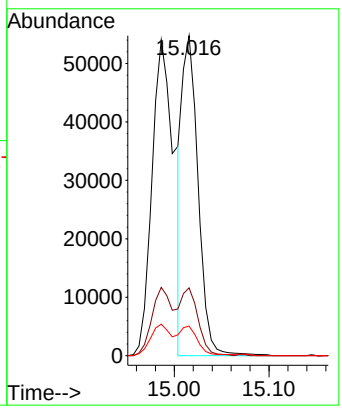


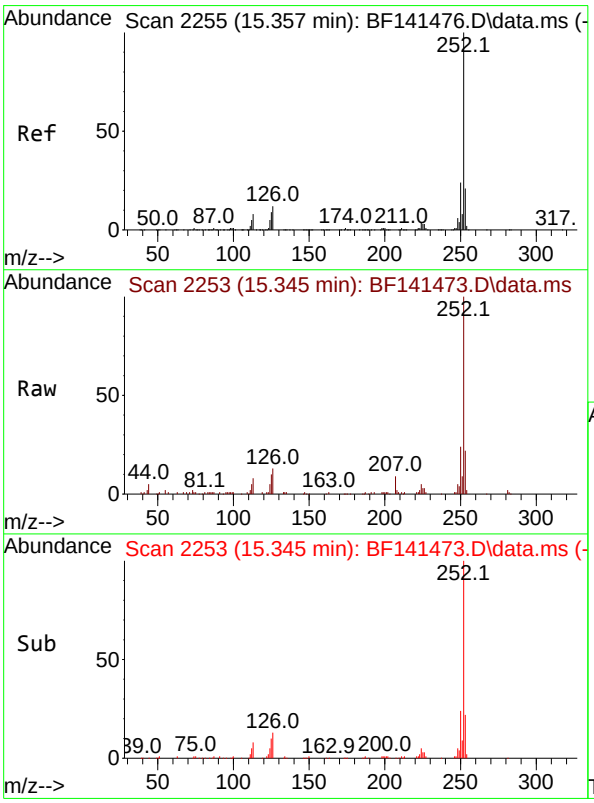
#89
Benzo(k)fluoranthene
Concen: 4.853 ng
RT: 15.016 min Scan# 21
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 64919

Ion	Ratio	Lower	Upper
252	100		
253	21.2	18.0	27.0
125	9.2	7.4	11.0

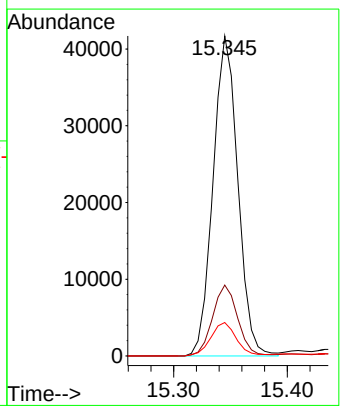


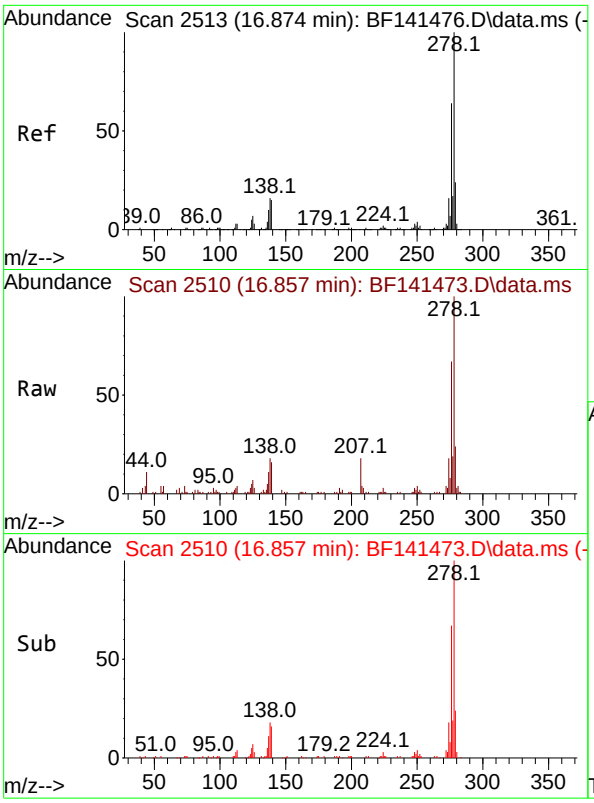


#90
Benzo(a)pyrene
Concen: 4.993 ng
RT: 15.345 min Scan# 2253
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:252 Resp: 63295

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	10.4	7.4	11.2



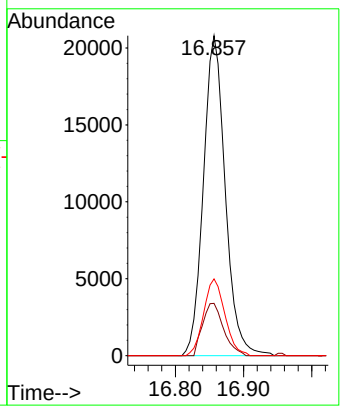


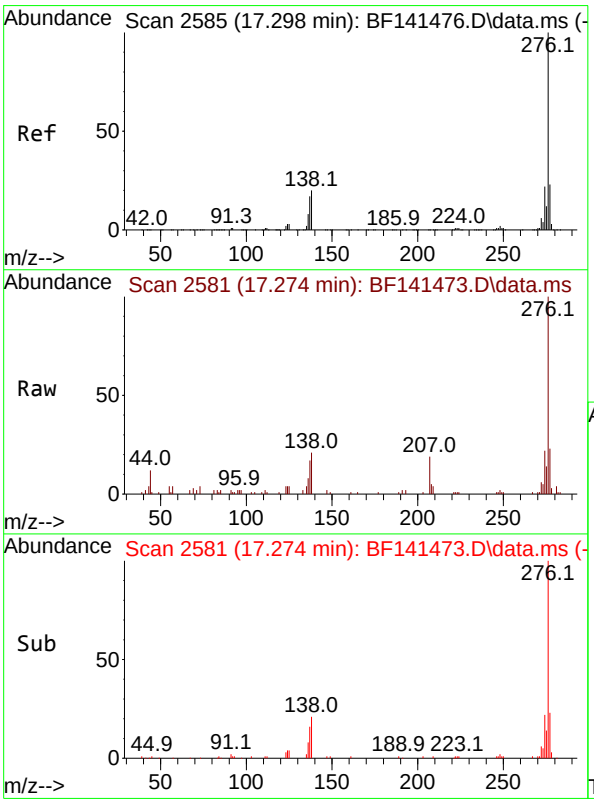
#91
Dibenzo(a,h)anthracene
Concen: 3.974 ng
RT: 16.857 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:278 Resp: 46421

Ion	Ratio	Lower	Upper
278	100		
139	16.4	11.8	17.6
279	24.0	19.1	28.7

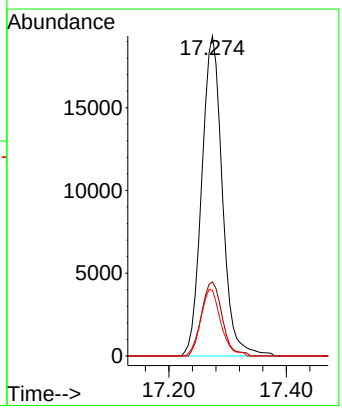




#92
Benzo(g,h,i)perylene
Concen: 3.841 ng
RT: 17.274 min Scan# 2581
Delta R.T. -0.041 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:276 Resp: 46952

Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.6	28.0
138	20.5	15.9	23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141474.D
Acq On : 06 Feb 2025 12:00
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

Quant Time: Feb 06 16:00:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	88879	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	361197	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	200046	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	347312	20.000	ng		0.00
76) Chrysene-d12	13.957	240	284792	20.000	ng		0.00
86) Perylene-d12	15.416	264	215900	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	114669	20.227	ng		0.00
7) Phenol-d6	6.422	99	144805	20.209	ng		-0.02
23) Nitrobenzene-d5	7.345	82	136996	19.783	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	40073	19.941	ng		-0.02
45) 2-Fluorobiphenyl	9.145	172	271988	20.947	ng		0.00
79) Terphenyl-d14	12.898	244	314541	18.645	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.481	88	23063	10.108	ng		95
3) Pyridine	3.216	79	53532	9.859	ng		99
4) n-Nitrosodimethylamine	3.146	42	34386	9.564	ng	#	97
6) Aniline	6.446	93	68661	10.215	ng		92
8) 2-Chlorophenol	6.575	128	62679	10.232	ng		99
9) Benzaldehyde	6.334	77	44111	11.585	ng		99
10) Phenol	6.440	94	74689	10.015	ng		96
11) bis(2-Chloroethyl)ether	6.522	93	54627	9.752	ng		98
12) 1,3-Dichlorobenzene	6.728	146	65850	10.182	ng		98
13) 1,4-Dichlorobenzene	6.804	146	68330	10.341	ng		97
14) 1,2-Dichlorobenzene	6.957	146	63948	10.428	ng		99
15) Benzyl Alcohol	6.928	79	55580	10.115	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.063	45	99782	10.406	ng		98
17) 2-Methylphenol	7.045	107	48375	10.092	ng		97
18) Hexachloroethane	7.298	117	24233	9.910	ng		98
19) n-Nitroso-di-n-propyla...	7.192	70	43762	10.210	ng		97
20) 3+4-Methylphenols	7.198	107	62949	10.332	ng		96
22) Acetophenone	7.192	105	90614	10.085	ng	#	97
24) Nitrobenzene	7.363	77	67032	9.927	ng		96
25) Isophorone	7.604	82	107242	9.712	ng		99
26) 2-Nitrophenol	7.687	139	31590	9.403	ng		97
27) 2,4-Dimethylphenol	7.728	122	38303	9.759	ng		98
28) bis(2-Chloroethoxy)met...	7.816	93	70458	9.958	ng		97
29) 2,4-Dichlorophenol	7.934	162	51883	9.784	ng		99
30) 1,2,4-Trichlorobenzene	8.010	180	57937	10.033	ng		97
31) Naphthalene	8.092	128	188046	10.002	ng		99
32) Benzoic acid	7.810	122	33645	8.253	ng		98
33) 4-Chloroaniline	8.145	127	63529	9.678	ng		98
34) Hexachlorobutadiene	8.210	225	34431	9.932	ng		98
35) Caprolactam	8.481	113	15331	9.495	ng		98
36) 4-Chloro-3-methylphenol	8.628	107	58441	9.949	ng		99
37) 2-Methylnaphthalene	8.781	142	124517	10.177	ng		99
38) 1-Methylnaphthalene	8.881	142	118722	10.019	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	58800	10.160	ng		98
41) Hexachlorocyclopentadiene	8.934	237	13785	7.161	ng		91
43) 2,4,6-Trichlorophenol	9.063	196	36558	9.773	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141474.D
Acq On : 06 Feb 2025 12:00
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

Quant Time: Feb 06 16:00:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	40697	10.039	ng		97
46) 1,1'-Biphenyl	9.245	154	156431	10.086	ng		99
47) 2-Chloronaphthalene	9.269	162	116119	10.125	ng		99
48) 2-Nitroaniline	9.369	65	37155	9.653	ng		96
49) Acenaphthylene	9.686	152	173644	10.179	ng		99
50) Dimethylphthalate	9.545	163	135886	10.006	ng		100
51) 2,6-Dinitrotoluene	9.604	165	29006	9.770	ng		96
52) Acenaphthene	9.857	154	116461m	10.155	ng		
53) 3-Nitroaniline	9.775	138	31330	9.805	ng		100
54) 2,4-Dinitrophenol	9.886	184	13341	7.561	ng		98
55) Dibenzofuran	10.028	168	172206	10.230	ng		98
56) 4-Nitrophenol	9.957	139	21569	9.093	ng		96
57) 2,4-Dinitrotoluene	10.010	165	40306	10.198	ng		93
58) Fluorene	10.369	166	136110	10.458	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	36102	10.344	ng	#	96
60) Diethylphthalate	10.245	149	134593	10.073	ng		99
61) 4-Chlorophenyl-phenyle...	10.363	204	64305	10.270	ng		97
62) 4-Nitroaniline	10.386	138	31934	9.842	ng		98
63) Azobenzene	10.522	77	132968	10.010	ng		99
65) 4,6-Dinitro-2-methylph...	10.422	198	20074	8.320	ng		98
66) n-Nitrosodiphenylamine	10.481	169	113408	10.201	ng		98
67) 4-Bromophenyl-phenylether	10.857	248	38257	9.856	ng		97
68) Hexachlorobenzene	10.922	284	40715	10.186	ng		98
69) Atrazine	11.010	200	35287	10.580	ng		98
70) Pentachlorophenol	11.122	266	22735	8.895	ng		98
71) Phenanthrene	11.333	178	196586	10.283	ng		99
72) Anthracene	11.386	178	195528	10.174	ng		99
73) Carbazole	11.545	167	178223	10.306	ng		99
74) Di-n-butylphthalate	11.875	149	200806	10.057	ng		100
75) Fluoranthene	12.522	202	215218	10.618	ng		99
77) Benzidine	12.651	184	69402	11.050	ng		98
78) Pyrene	12.751	202	221721	9.146	ng		99
80) Butylbenzylphthalate	13.374	149	76852	9.152	ng		100
81) Benzo(a)anthracene	13.945	228	189705	10.021	ng		99
82) 3,3'-Dichlorobenzidine	13.910	252	58487	10.785	ng		99
83) Chrysene	13.980	228	174103	9.960	ng		98
84) Bis(2-ethylhexyl)phtha...	13.933	149	86853	9.171	ng		98
85) Di-n-octyl phthalate	14.563	149	115875	8.576	ng		100
87) Indeno(1,2,3-cd)pyrene	16.851	276	111083	8.327	ng		98
88) Benzo(b)fluoranthene	14.998	252	151861	10.476	ng		98
89) Benzo(k)fluoranthene	15.021	252	131265	10.604	ng		99
90) Benzo(a)pyrene	15.357	252	115948	9.885	ng		99
91) Dibenzo(a,h)anthracene	16.868	278	89400	8.271	ng		99
92) Benzo(g,h,i)perylene	17.286	276	93242	8.243	ng		99

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

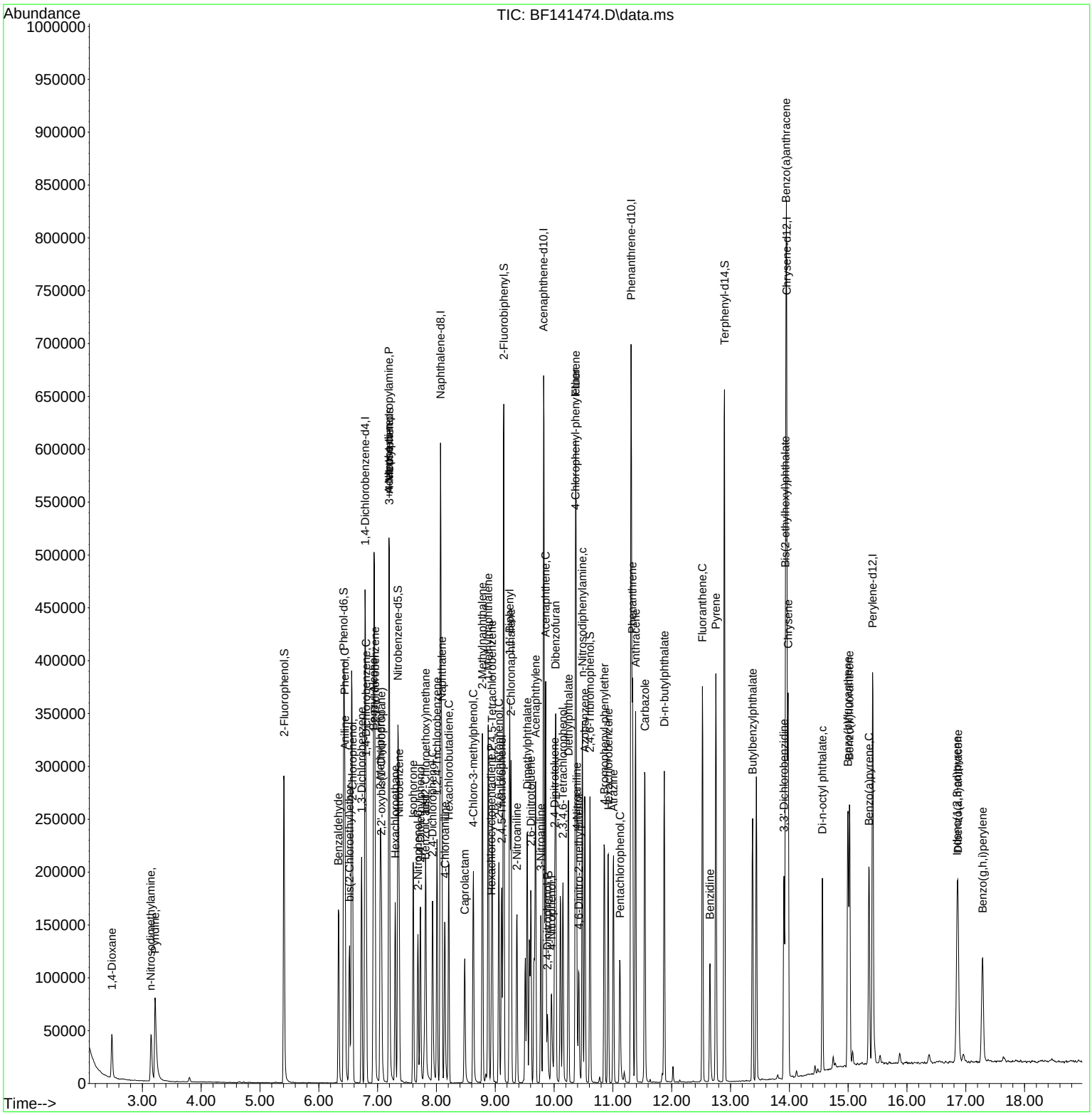
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141474.D
Acq On : 06 Feb 2025 12:00
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

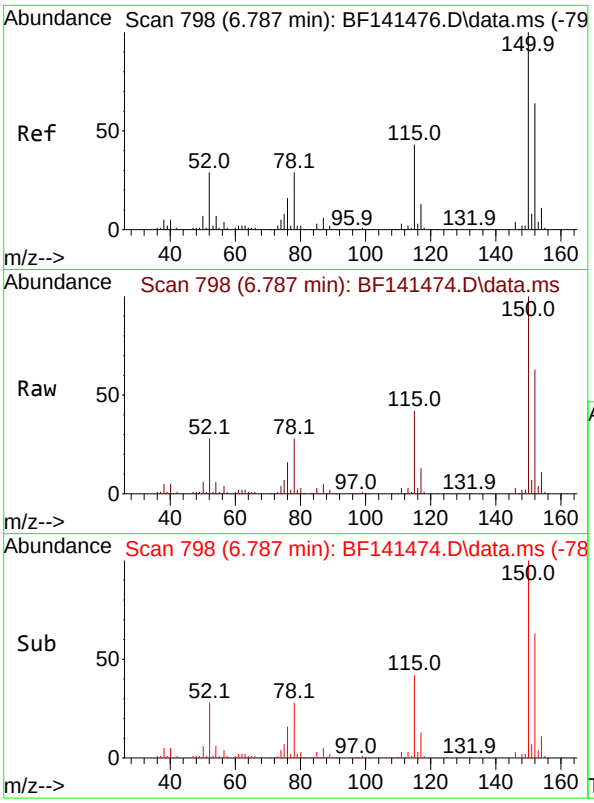
Quant Time: Feb 06 16:00:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

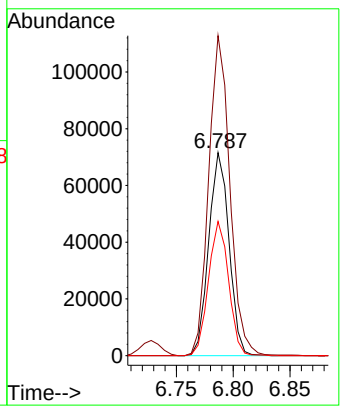




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:152 Resp: 8887

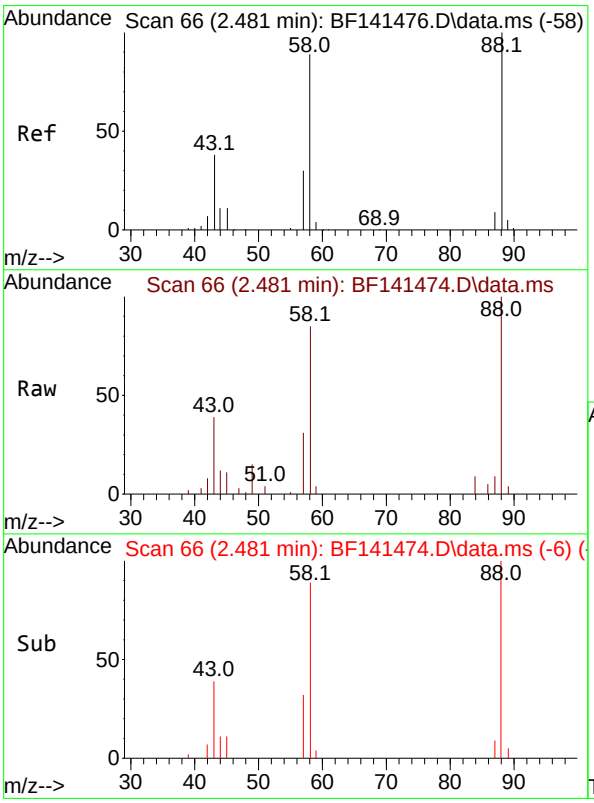
Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.0	187.4
115	66.1	53.6	80.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

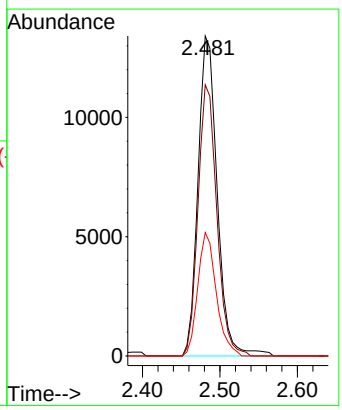
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

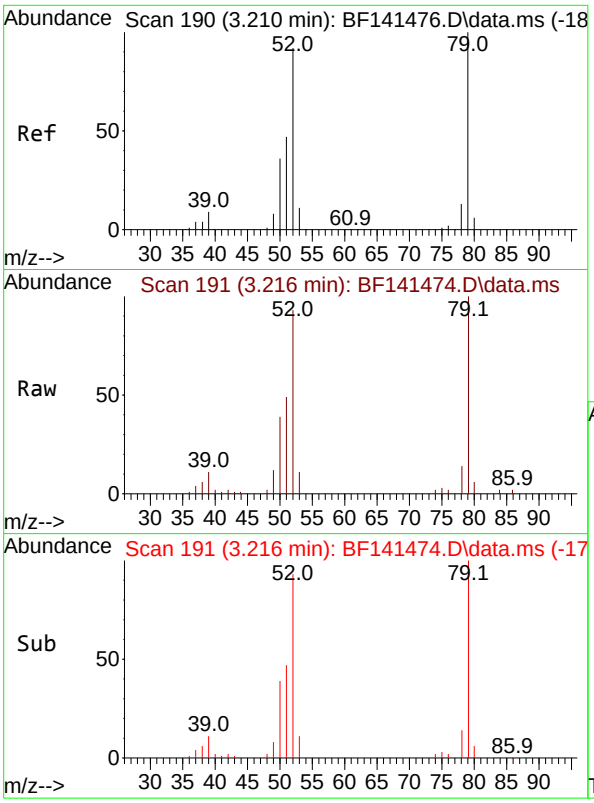


#2
1,4-Dioxane
Concen: 10.108 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 88 Resp: 23063

Ion	Ratio	Lower	Upper
88	100		
58	83.0	71.1	106.7
43	37.3	30.6	46.0





#3
Pyridine
Concen: 9.859 ng
RT: 3.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

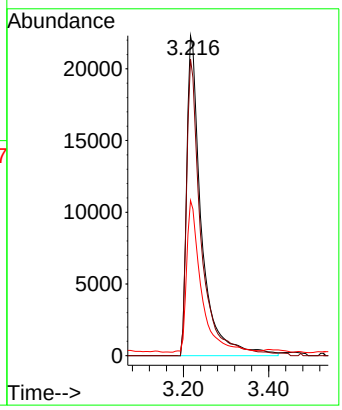
Tgt Ion: 79 Resp: 5353

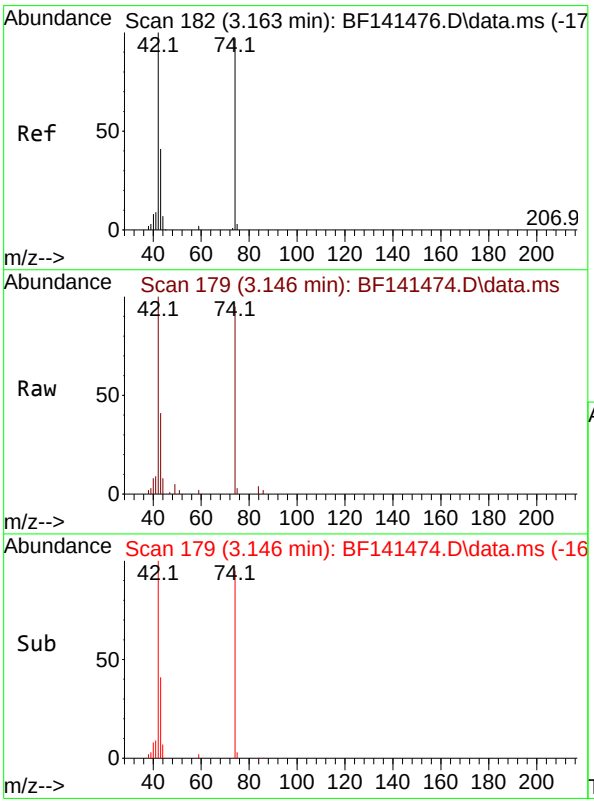
Ion	Ratio	Lower	Upper
79	100		
52	92.7	73.7	110.5
51	48.5	37.5	56.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

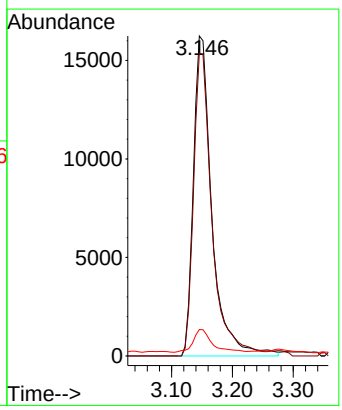


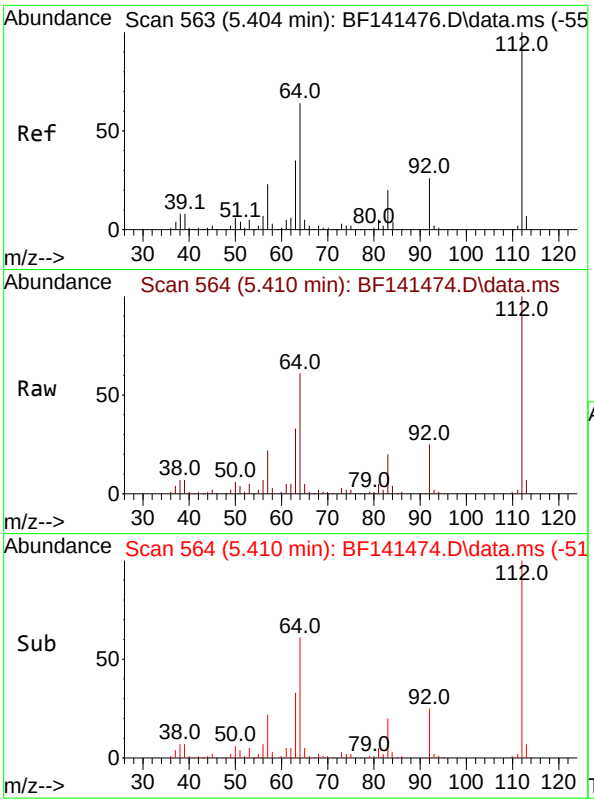


#4
n-Nitrosodimethylamine
Concen: 9.564 ng
RT: 3.146 min Scan# 179
Delta R.T. -0.041 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 42 Resp: 34386

Ion	Ratio	Lower	Upper
42	100		
74	94.6	78.0	117.0
44	8.3	5.4	8.2#

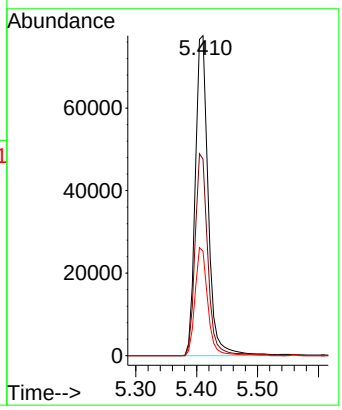




#5
2-Fluorophenol
Concen: 20.227 ng
RT: 5.410 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:112 Resp: 11466

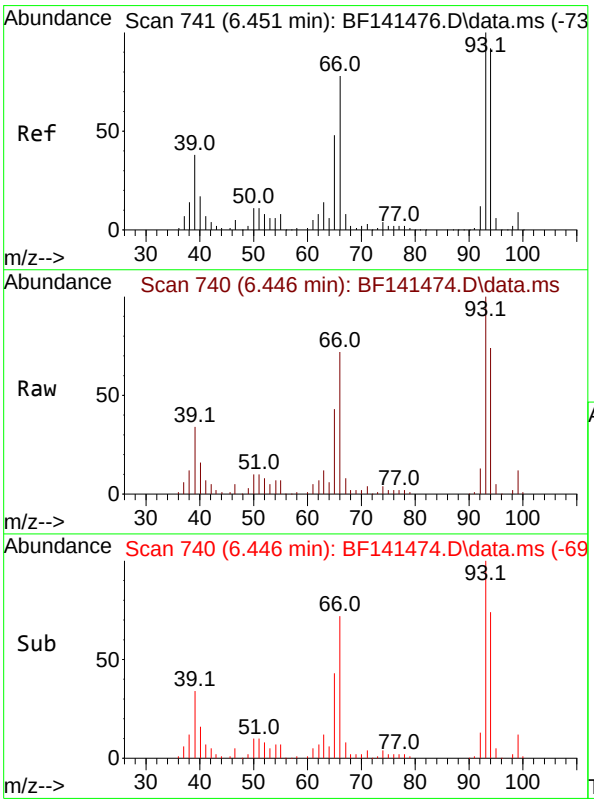
Ion	Ratio	Lower	Upper
112	100		
64	61.5	51.1	76.7
63	32.6	28.4	42.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

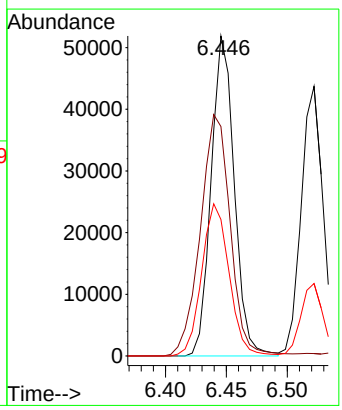
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

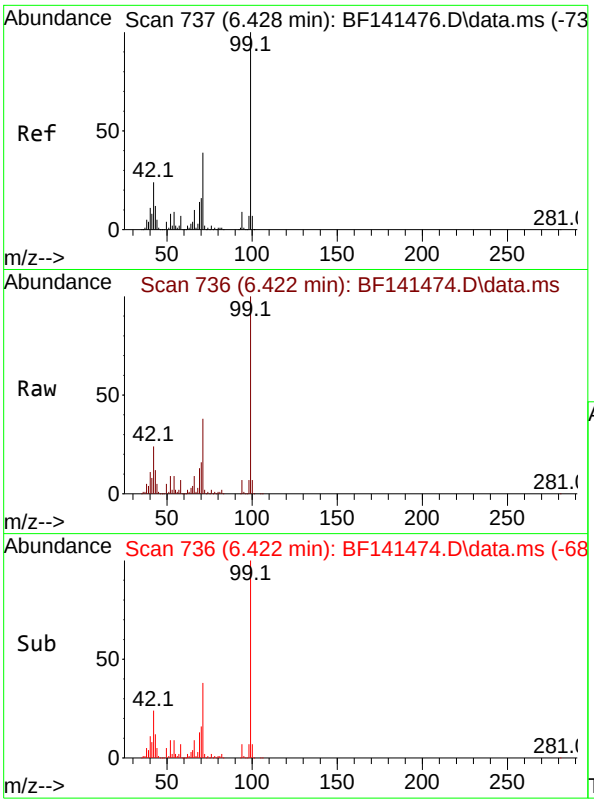


#6
Aniline
Concen: 10.215 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 93 Resp: 68661

Ion	Ratio	Lower	Upper
93	100		
66	71.7	62.6	94.0
65	42.7	38.3	57.5

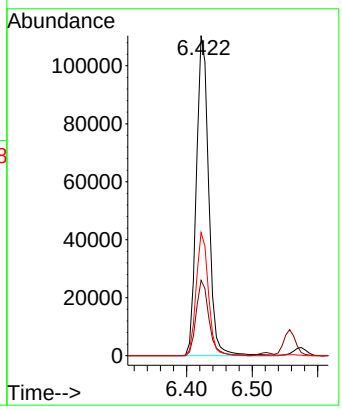




#7
Phenol-d6
Concen: 20.209 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 99 Resp: 14480

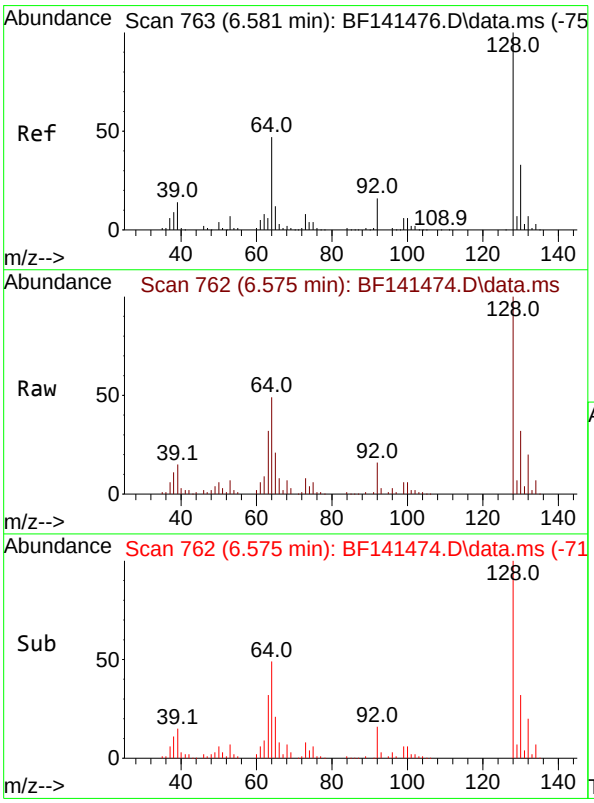
Ion	Ratio	Lower	Upper
99	100		
42	23.6	19.1	28.7
71	38.5	31.1	46.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

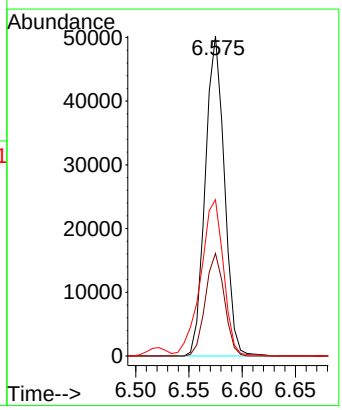
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

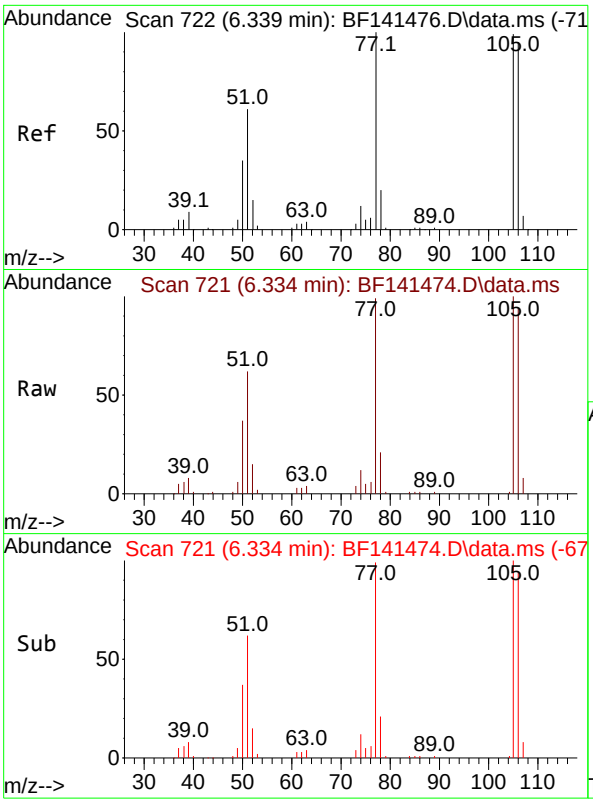


#8
2-Chlorophenol
Concen: 10.232 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:128 Resp: 62679

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.7	52.7
64	48.8	28.3	68.3

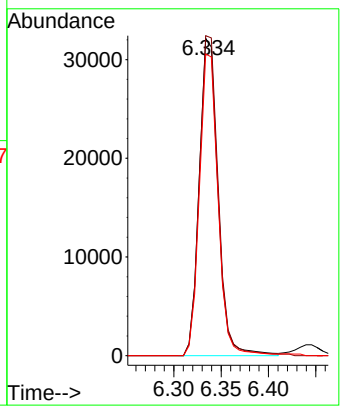




#9
Benzaldehyde
Concen: 11.585 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 77 Resp: 4411

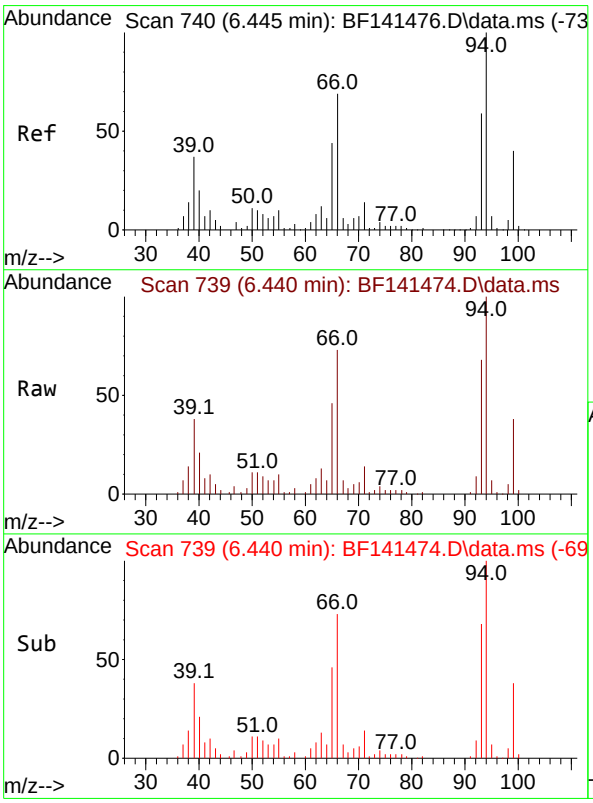
Ion	Ratio	Lower	Upper
77	100		
105	100.9	79.4	119.4
106	95.1	75.1	115.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

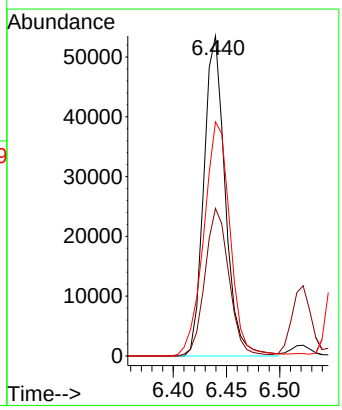
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

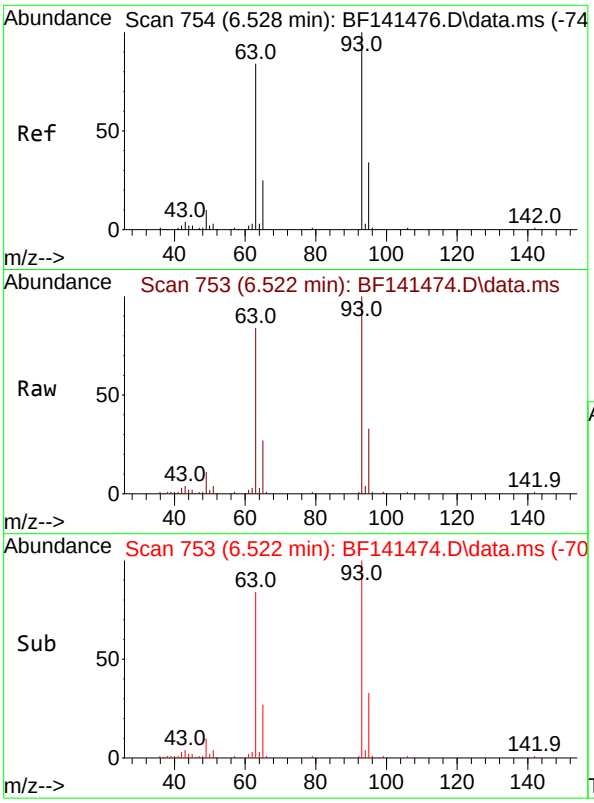


#10
Phenol
Concen: 10.015 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 94 Resp: 74689

Ion	Ratio	Lower	Upper
94	100		
65	46.1	23.7	63.7
66	73.1	49.3	89.3

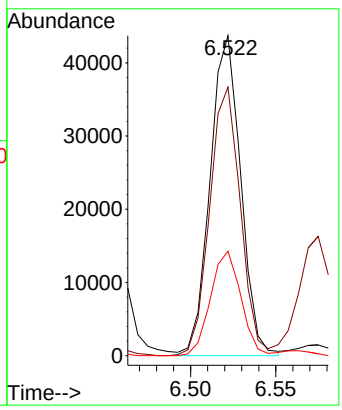




#11
bis(2-Chloroethyl)ether
Concen: 9.752 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 93 Resp: 5462

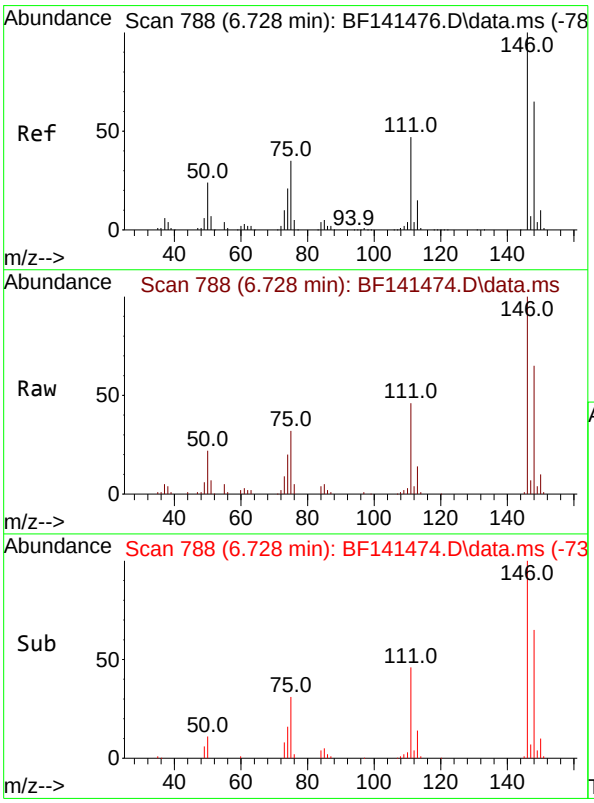
Ion	Ratio	Lower	Upper
93	100		
63	83.9	62.0	102.0
95	32.6	12.6	52.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

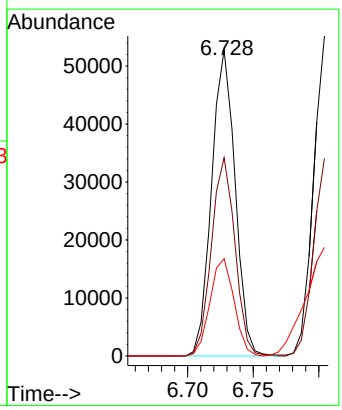
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

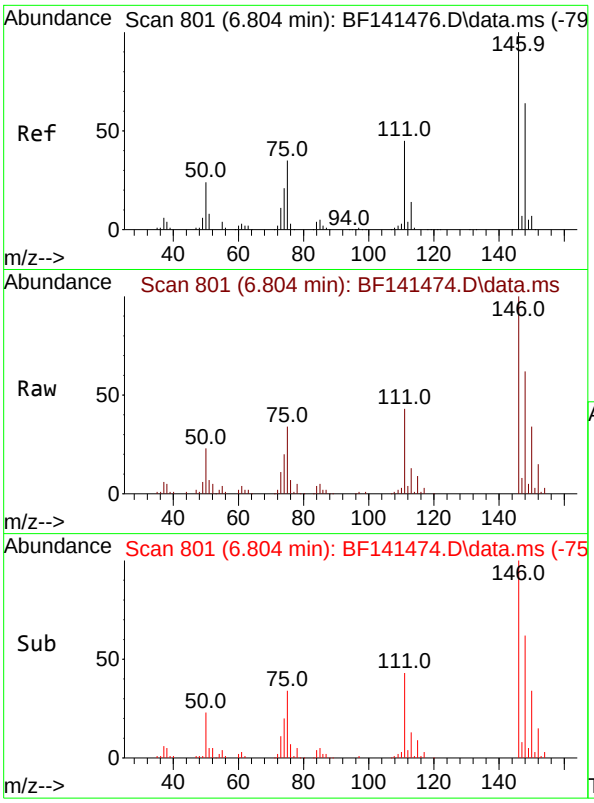


#12
1,3-Dichlorobenzene
Concen: 10.182 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:146 Resp: 65850

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.9	77.9
75	31.8	28.2	42.2

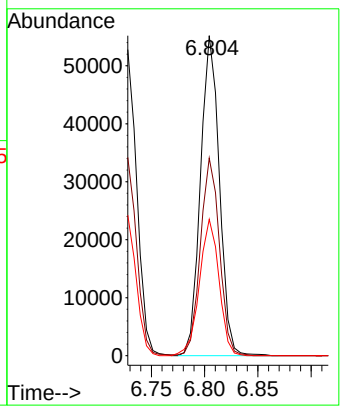




#13
1,4-Dichlorobenzene
Concen: 10.341 ng
RT: 6.804 min Scan# 8(
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:146 Resp: 6833(

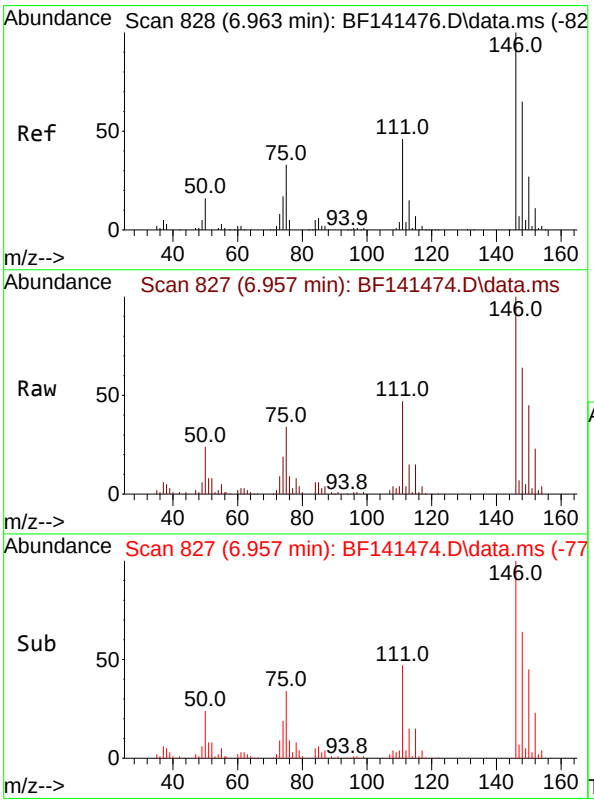
Ion	Ratio	Lower	Upper
146	100		
148	61.7	50.9	76.3
111	42.6	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

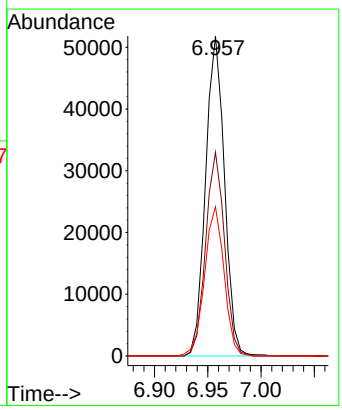
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

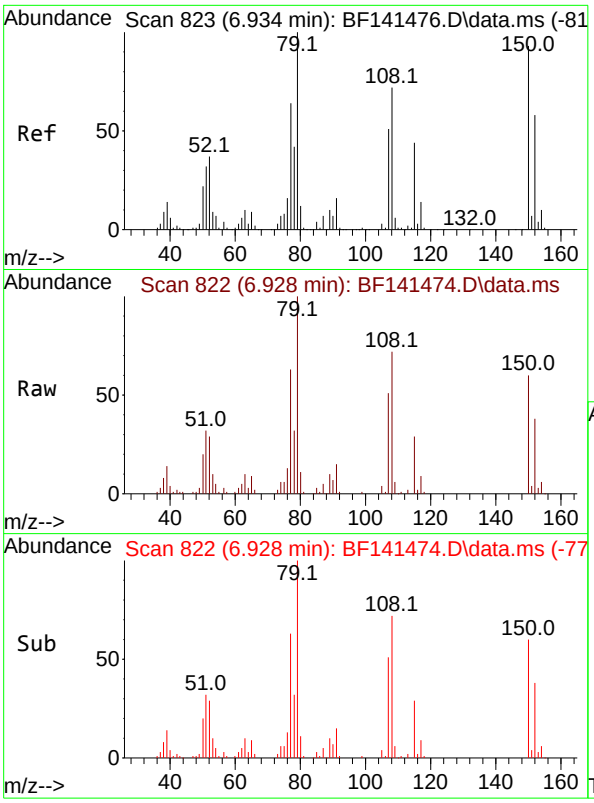


#14
1,2-Dichlorobenzene
Concen: 10.428 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:146 Resp: 63948

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.8	77.6
111	46.6	37.0	55.4

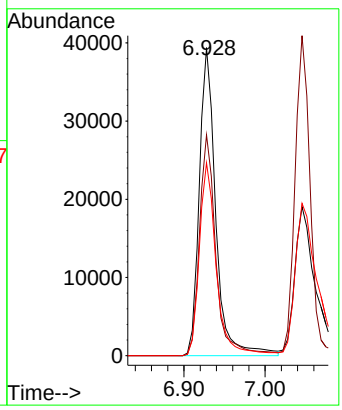




#15
Benzyl Alcohol
Concen: 10.115 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 79 Resp: 5558

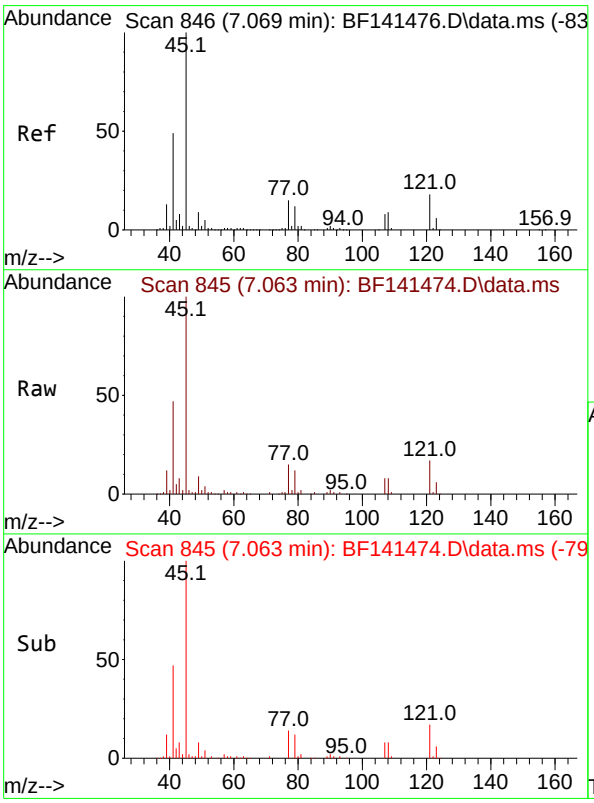
Ion	Ratio	Lower	Upper
79	100		
108	71.7	57.4	86.2
77	62.6	50.9	76.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

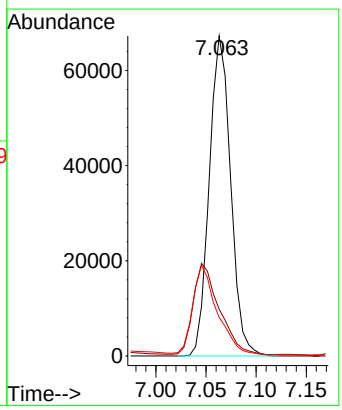
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

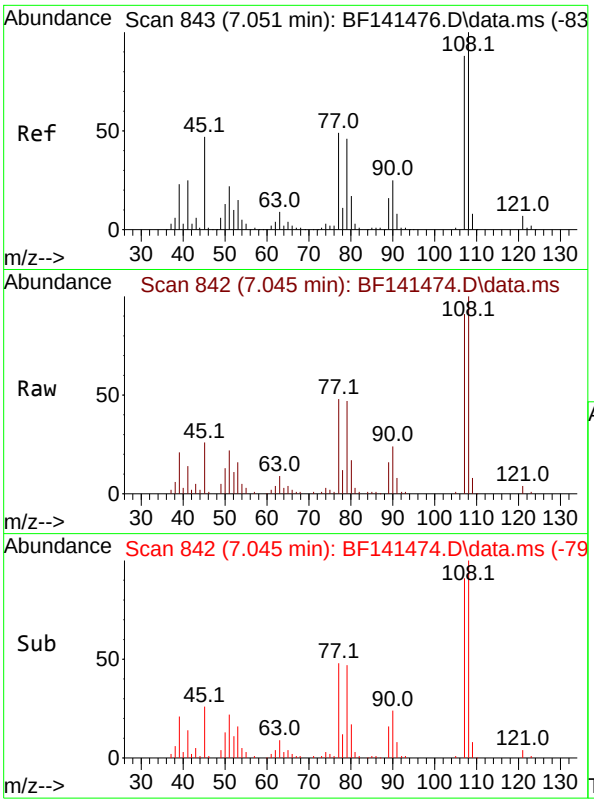


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.406 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 45 Resp: 99782

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	35.8
79	12.1	0.0	32.7

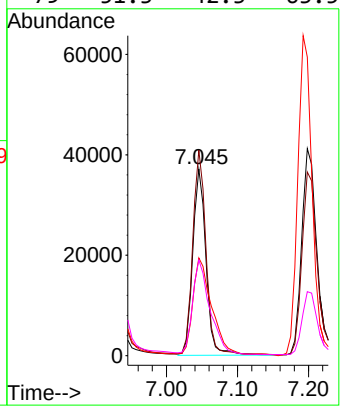




#17
2-Methylphenol
Concen: 10.092 ng
RT: 7.045 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:107 Resp: 4837

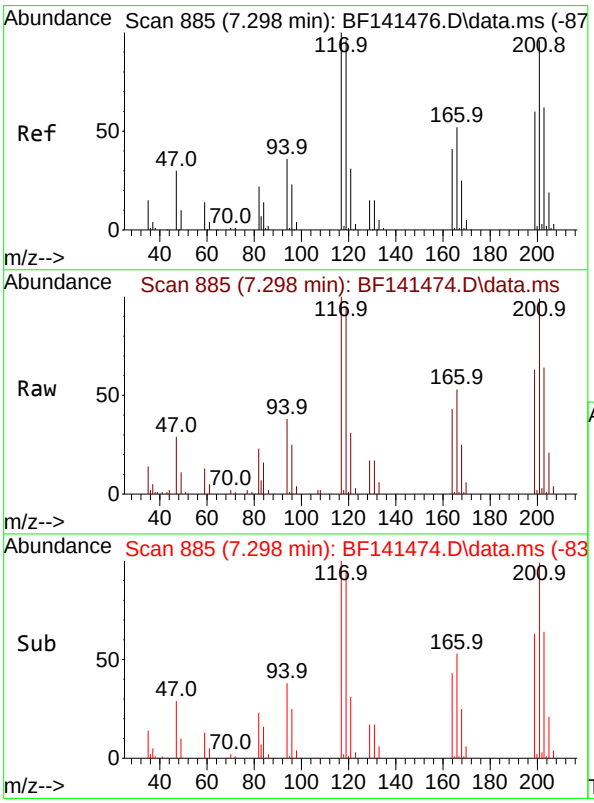
Ion	Ratio	Lower	Upper
107	100		
108	110.1	90.6	136.0
77	52.4	44.4	66.6
79	51.3	42.3	63.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

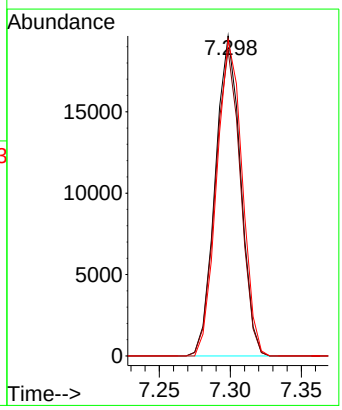
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

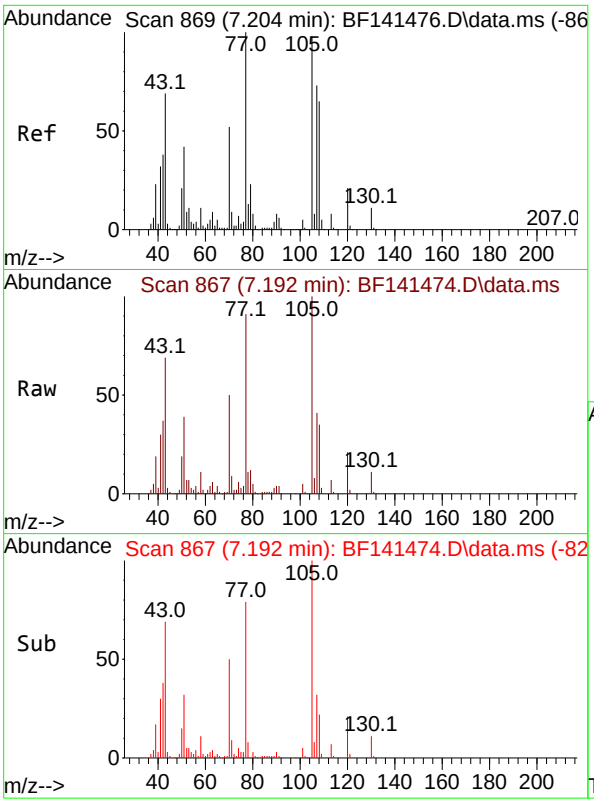


#18
Hexachloroethane
Concen: 9.910 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:117 Resp: 24233

Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.5	114.7
201	98.8	76.7	115.1

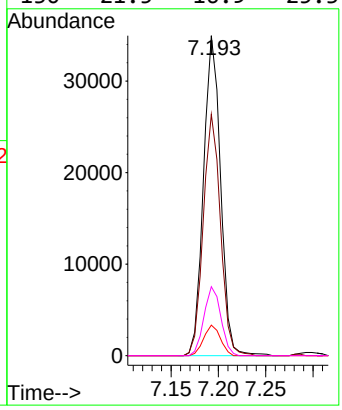




#19
n-Nitroso-di-n-propylamine
Concen: 10.210 ng
RT: 7.192 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 70 Resp: 4376

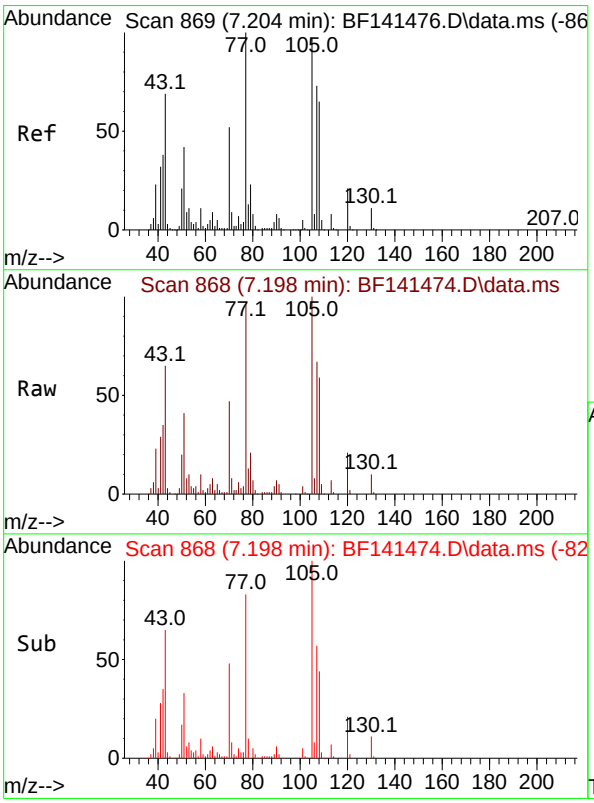
Ion	Ratio	Lower	Upper
70	100		
42	75.4	57.4	86.2
101	9.5	8.0	12.0
130	21.5	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

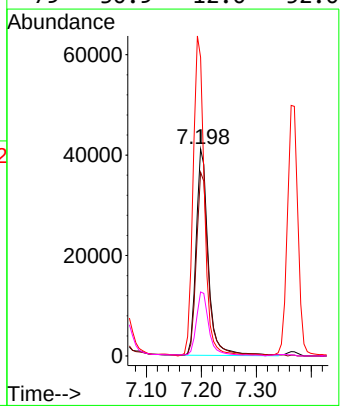
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

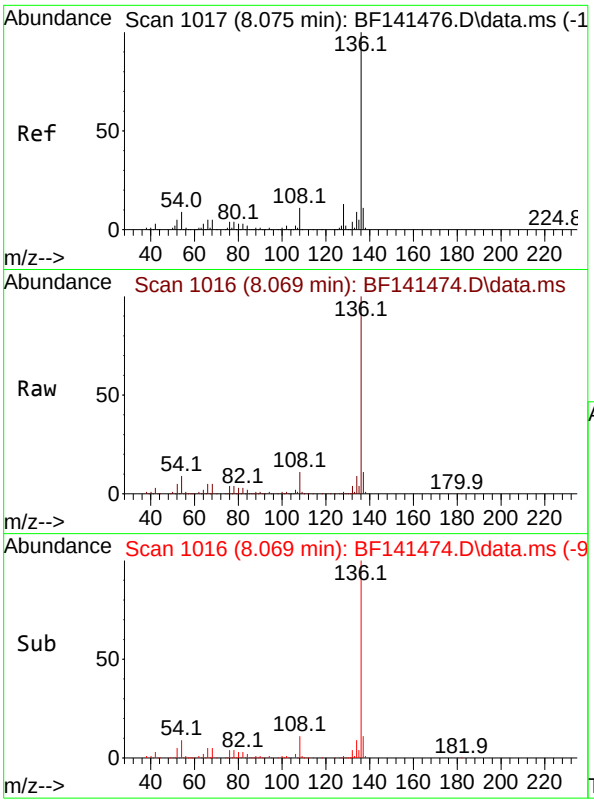


#20
3+4-Methylphenols
Concen: 10.332 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:107 Resp: 62949

Ion	Ratio	Lower	Upper
107	100		
108	88.7	68.5	108.5
77	144.2	116.5	156.5
79	30.9	12.0	52.0

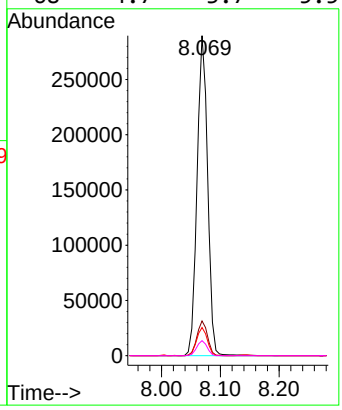




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:136 Resp: 36119

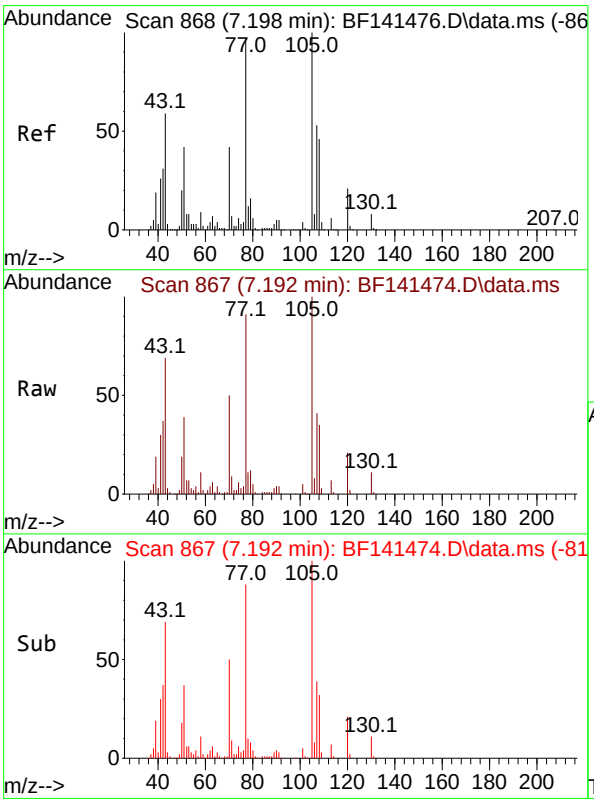
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.8	7.2	10.8
68	4.7	3.7	5.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

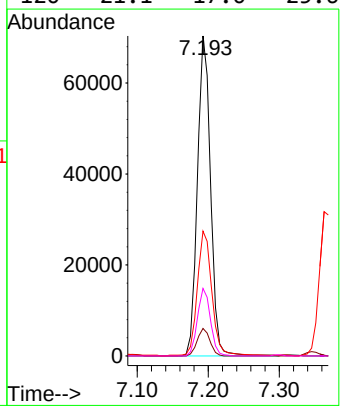
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

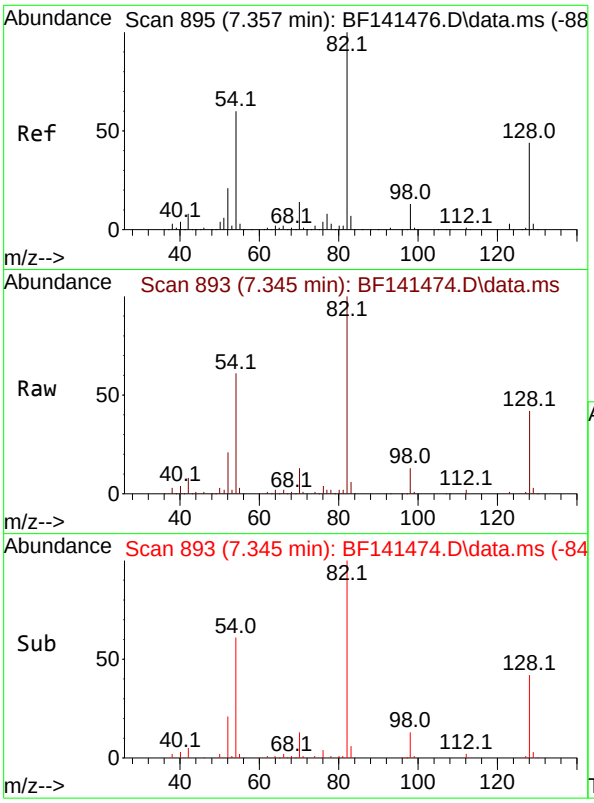


#22
Acetophenone
Concen: 10.085 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:105 Resp: 90614

Ion	Ratio	Lower	Upper
105	100		
71	8.6	5.7	8.5#
51	39.0	33.7	50.5
120	21.1	17.0	25.6

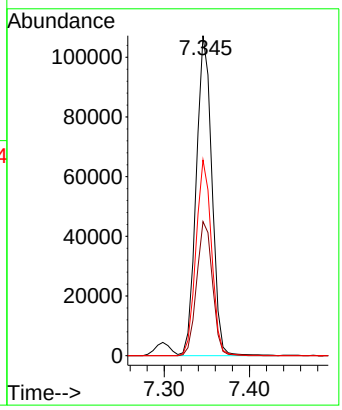




#23
Nitrobenzene-d5
Concen: 19.783 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 82 Resp: 13699

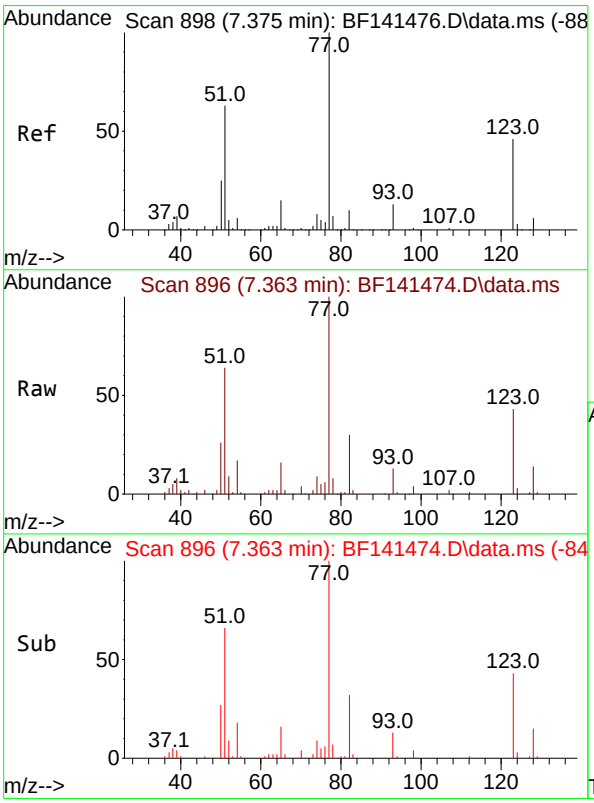
Ion	Ratio	Lower	Upper
82	100		
128	41.9	34.8	52.2
54	61.2	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

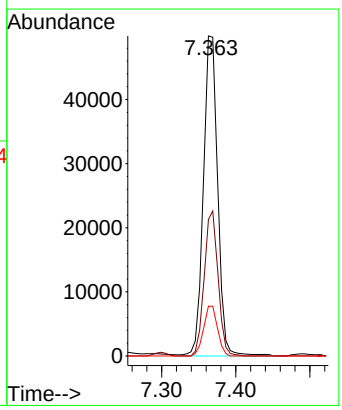
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

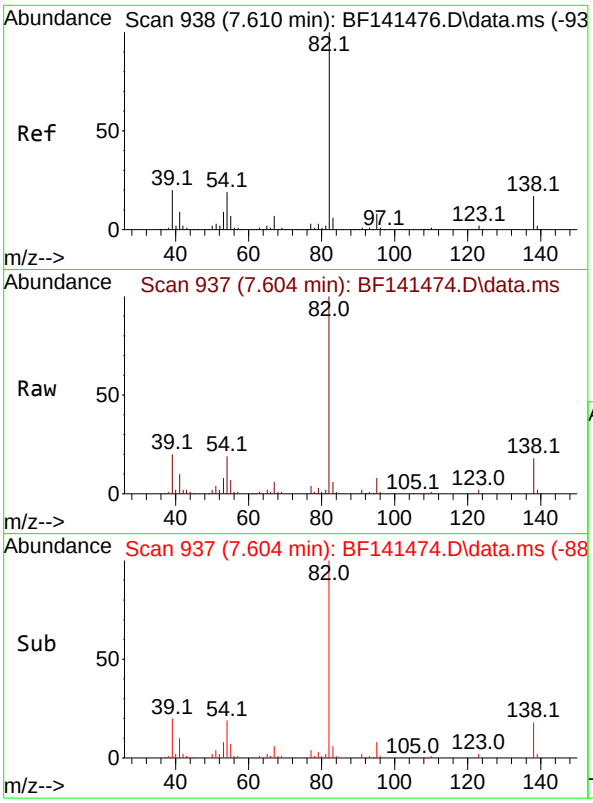


#24
Nitrobenzene
Concen: 9.927 ng
RT: 7.363 min Scan# 896
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 77 Resp: 67032

Ion	Ratio	Lower	Upper
77	100		
123	42.7	36.9	55.3
65	15.5	11.9	17.9

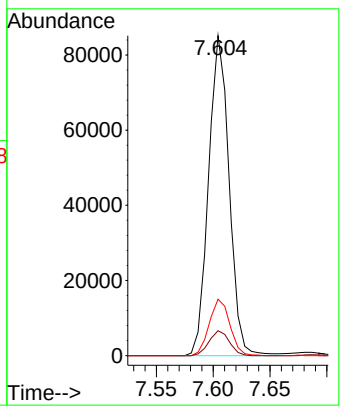




#25
Isophorone
Concen: 9.712 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 82 Resp: 10724

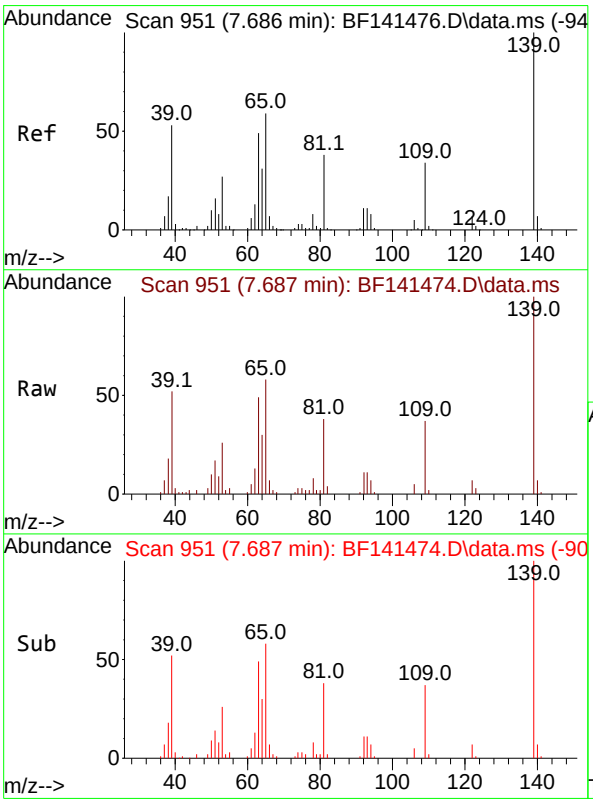
Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	17.7	13.9	20.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

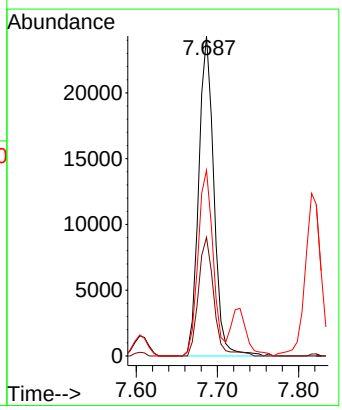
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

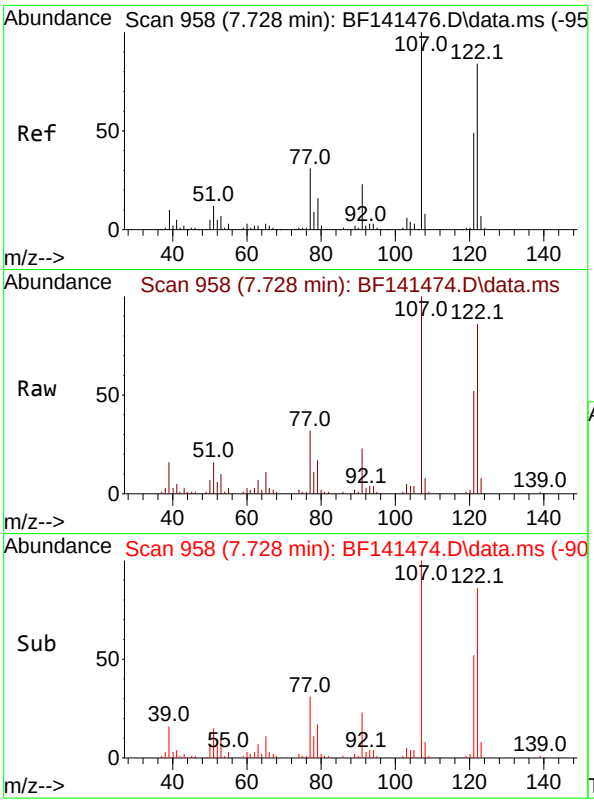


#26
2-Nitrophenol
Concen: 9.403 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:139 Resp: 31590

Ion	Ratio	Lower	Upper
139	100		
109	37.1	27.0	40.6
65	58.1	47.1	70.7

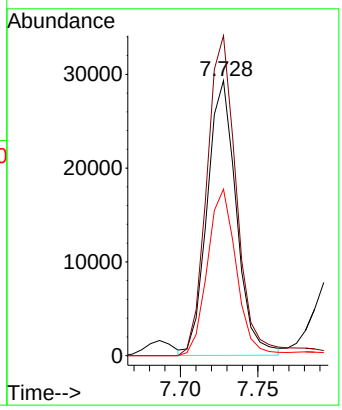




#27
2,4-Dimethylphenol
Concen: 9.759 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:122 Resp: 3830

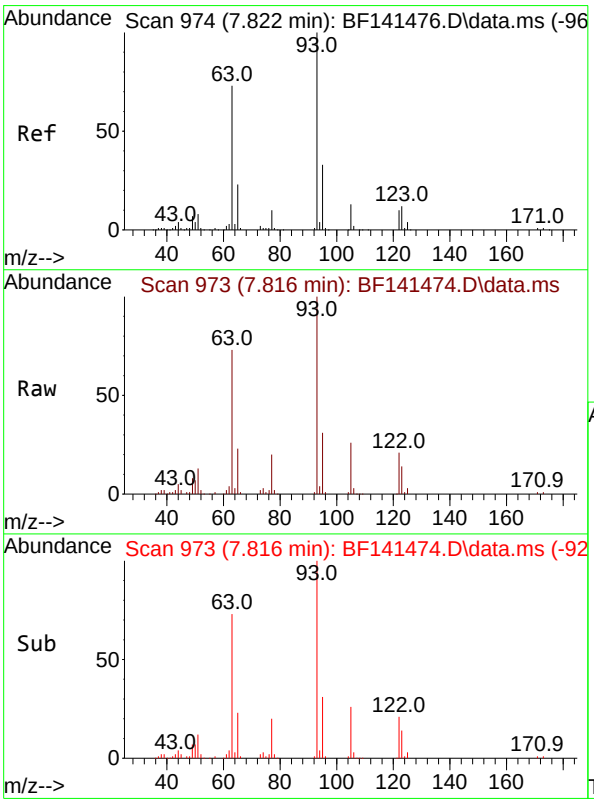
Ion	Ratio	Lower	Upper
122	100		
107	116.3	94.3	141.5
121	60.5	46.0	69.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

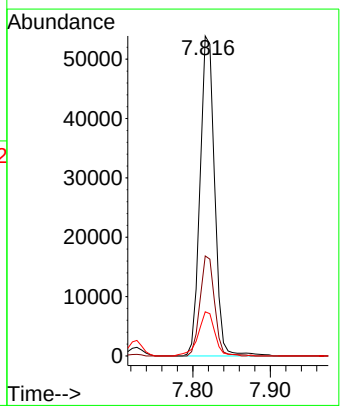
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

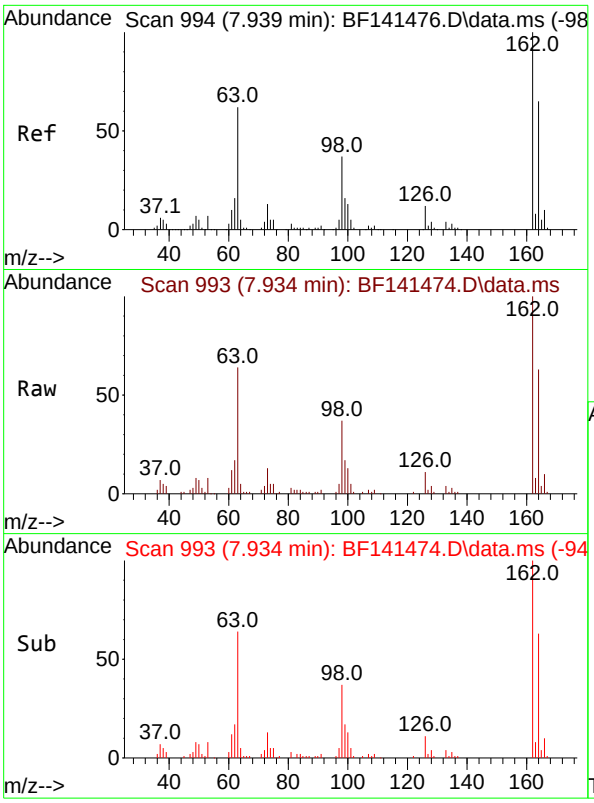


#28
bis(2-Chloroethoxy)methane
Concen: 9.958 ng
RT: 7.816 min Scan# 973
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 93 Resp: 70458

Ion	Ratio	Lower	Upper
93	100		
95	31.3	26.1	39.1
123	13.8	9.5	14.3

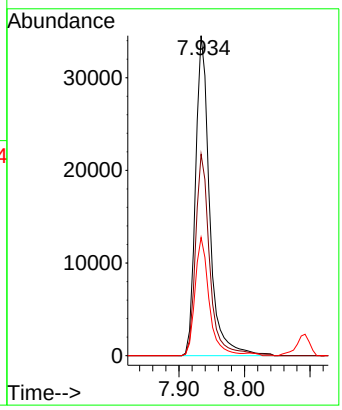




#29
2,4-Dichlorophenol
Concen: 9.784 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:162 Resp: 5188

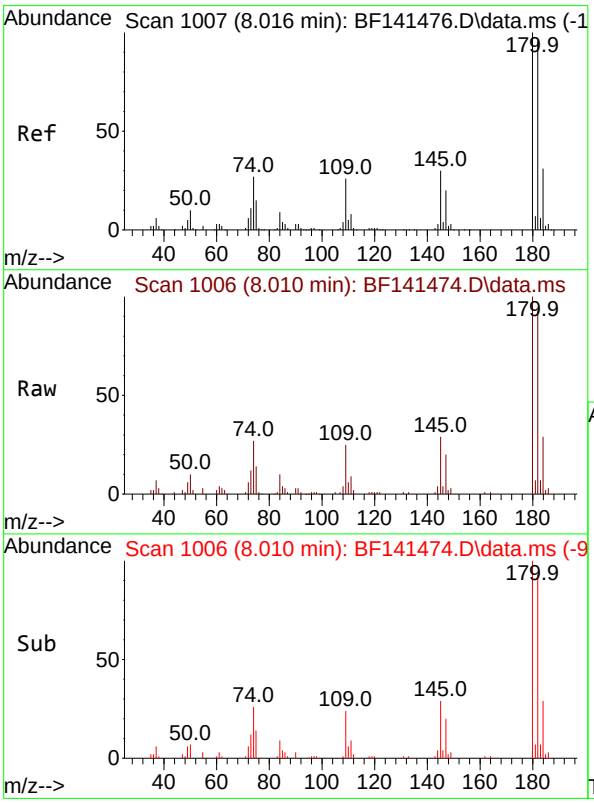
Ion	Ratio	Lower	Upper
162	100		
164	63.0	44.6	84.6
98	36.9	17.2	57.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

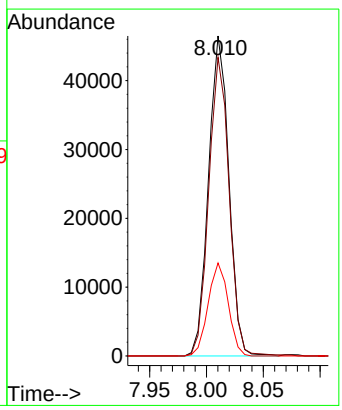
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

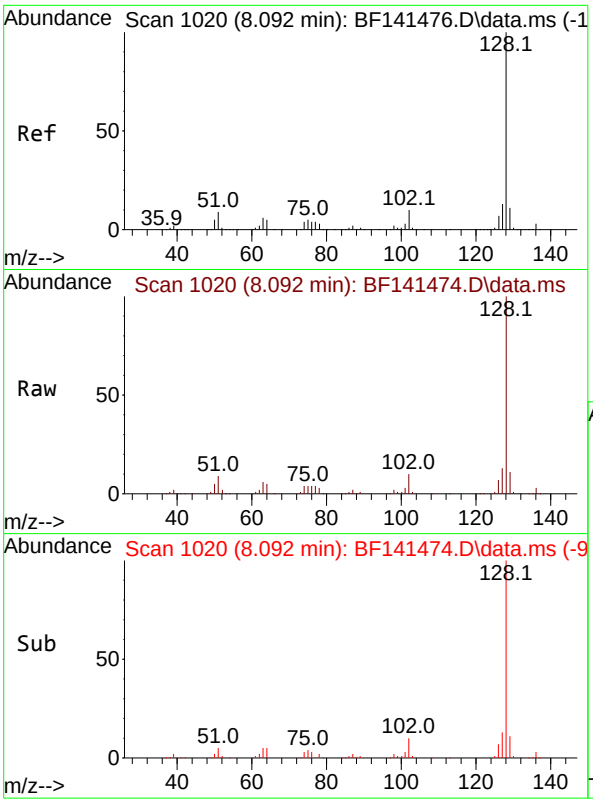


#30
1,2,4-Trichlorobenzene
Concen: 10.033 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:180 Resp: 57937

Ion	Ratio	Lower	Upper
180	100		
182	93.3	76.8	115.2
145	29.1	24.2	36.4

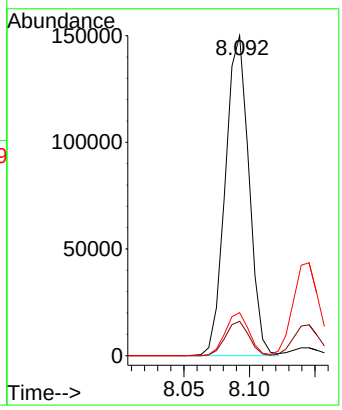




#31
Naphthalene
Concen: 10.002 ng
RT: 8.092 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:128 Resp: 18804(

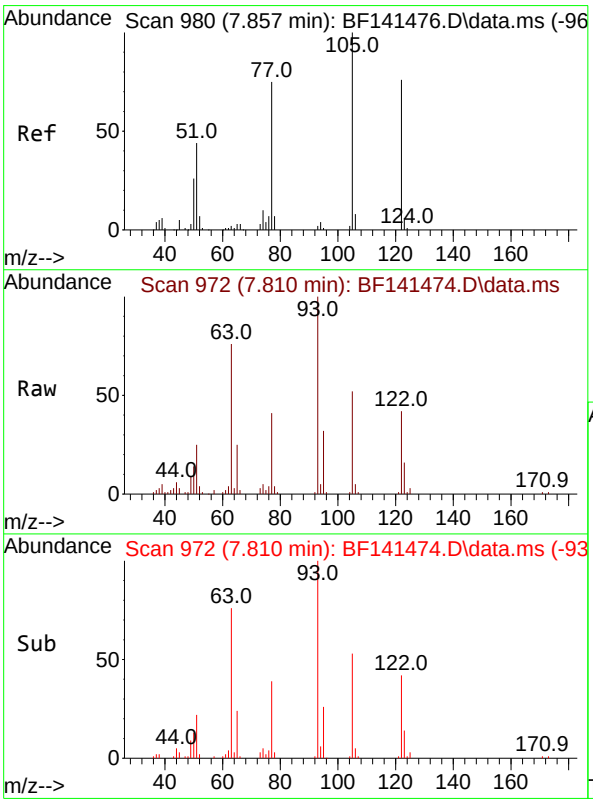
Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.9	13.3
127	13.5	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

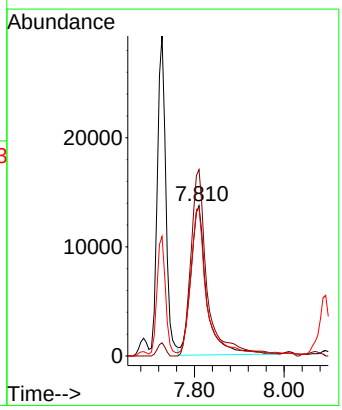
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

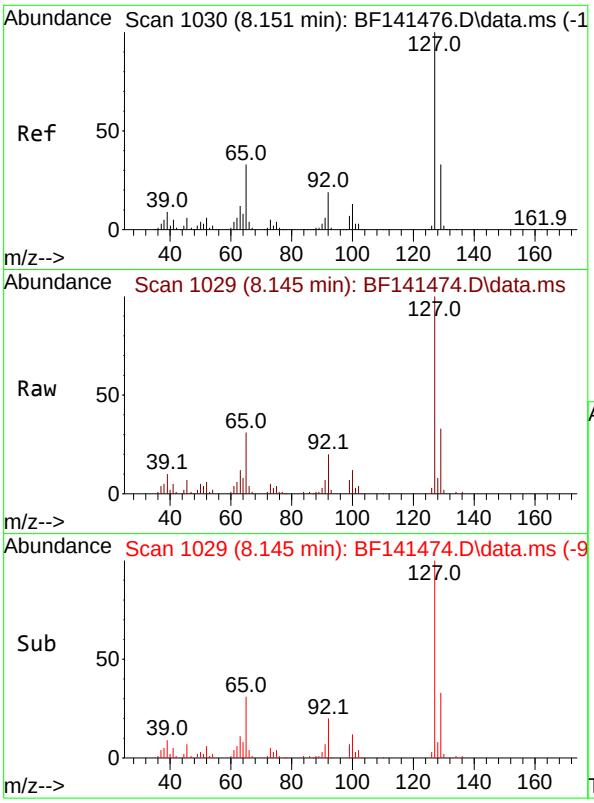


#32
Benzoic acid
Concen: 8.253 ng
RT: 7.810 min Scan# 972
Delta R.T. -0.082 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:122 Resp: 33645

Ion	Ratio	Lower	Upper
122	100		
105	124.1	106.5	146.5
77	98.6	76.3	116.3

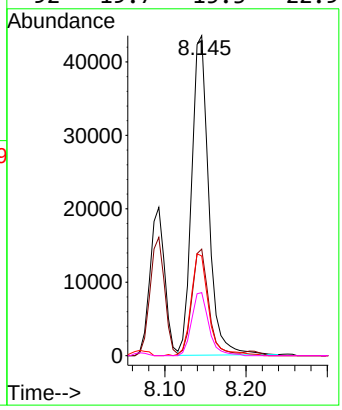




#33
4-Chloroaniline
Concen: 9.678 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:127 Resp: 6352

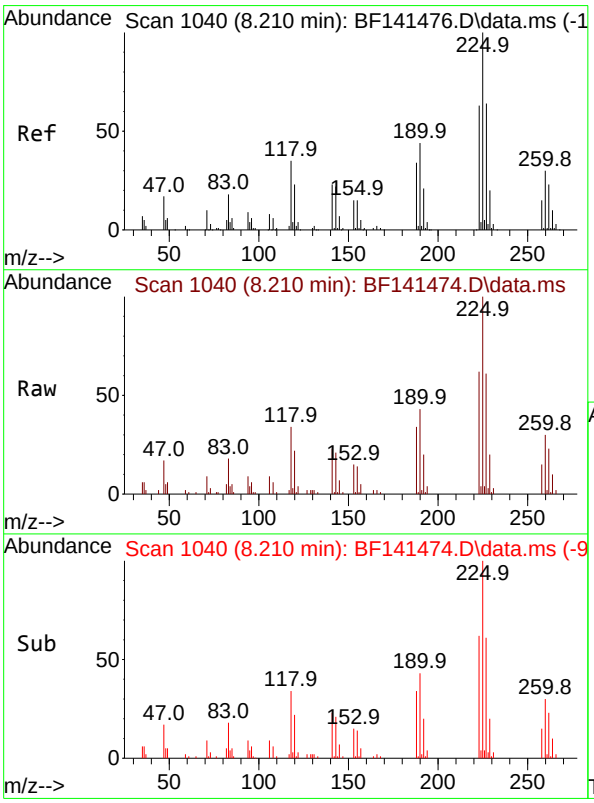
Ion	Ratio	Lower	Upper
127	100		
129	33.3	26.5	39.7
65	31.2	26.4	39.6
92	19.7	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

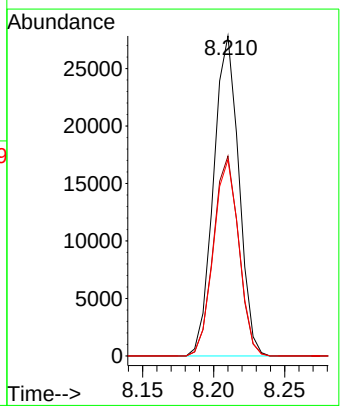
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

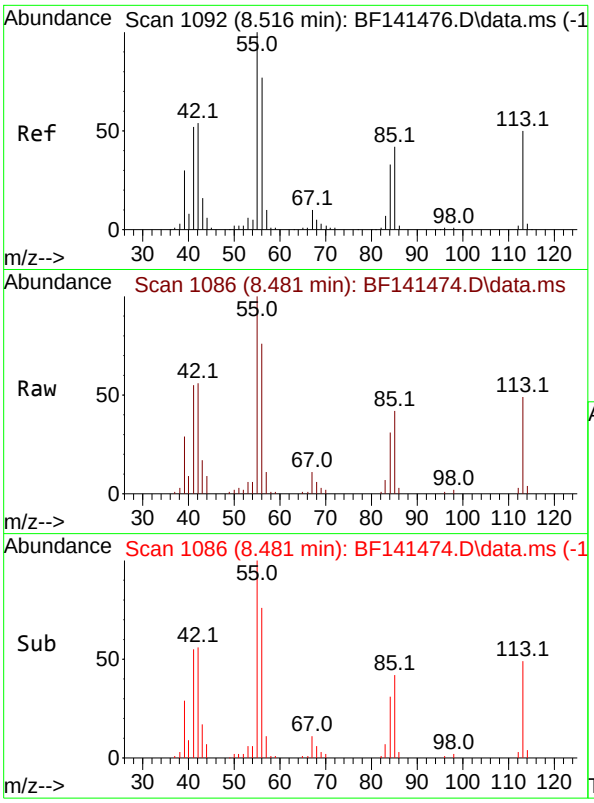


#34
Hexachlorobutadiene
Concen: 9.932 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:225 Resp: 34431

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.1	75.1
227	61.3	51.0	76.6

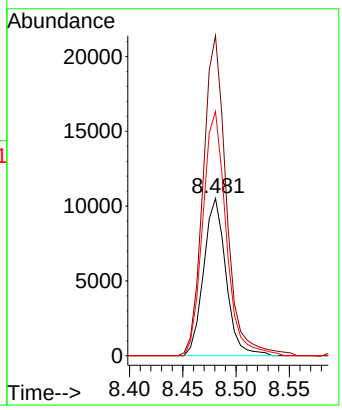




#35
Caprolactam
Concen: 9.495 ng
RT: 8.481 min Scan# 1
Delta R.T. -0.065 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:113 Resp: 1533

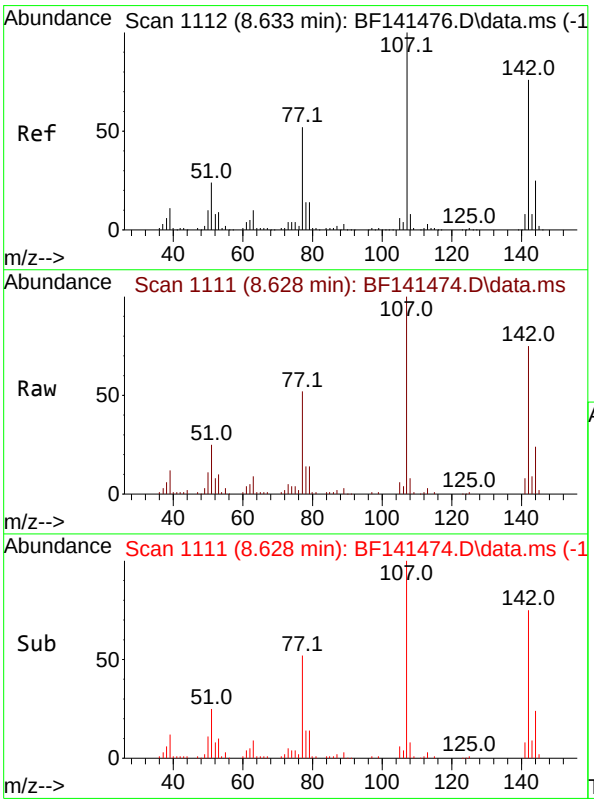
Ion	Ratio	Lower	Upper
113	100		
55	203.4	180.8	220.8
56	155.4	133.6	173.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

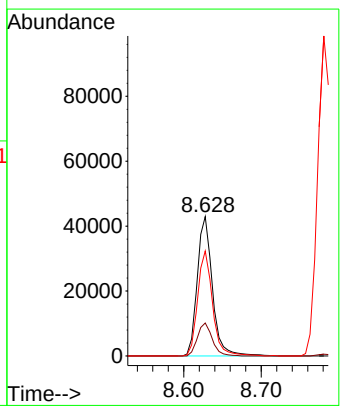
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

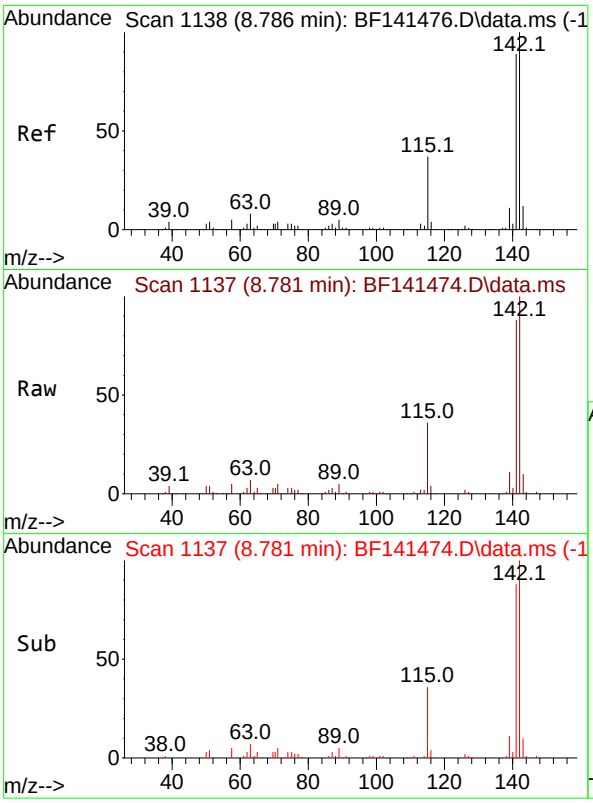


#36
4-Chloro-3-methylphenol
Concen: 9.949 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:107 Resp: 58441

Ion	Ratio	Lower	Upper
107	100		
144	23.7	19.7	29.5
142	75.3	60.8	91.2

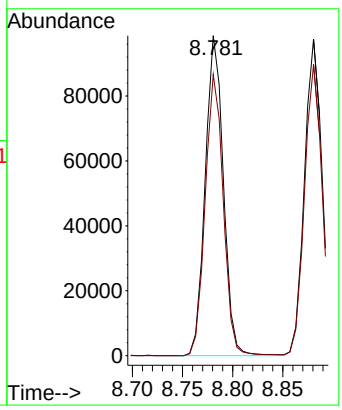




#37
2-Methylnaphthalene
Concen: 10.177 ng
RT: 8.781 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:142 Resp: 12451

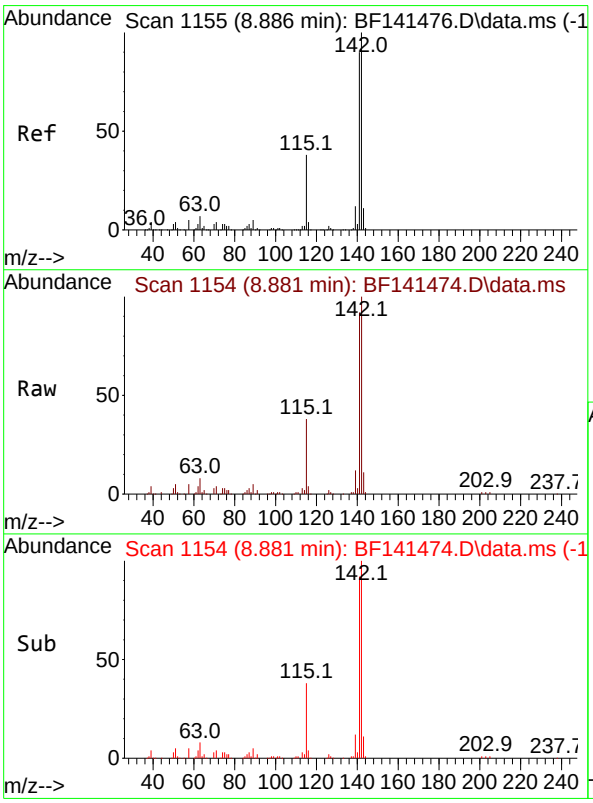
Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.2	106.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

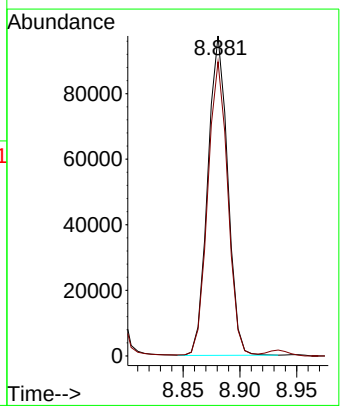
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

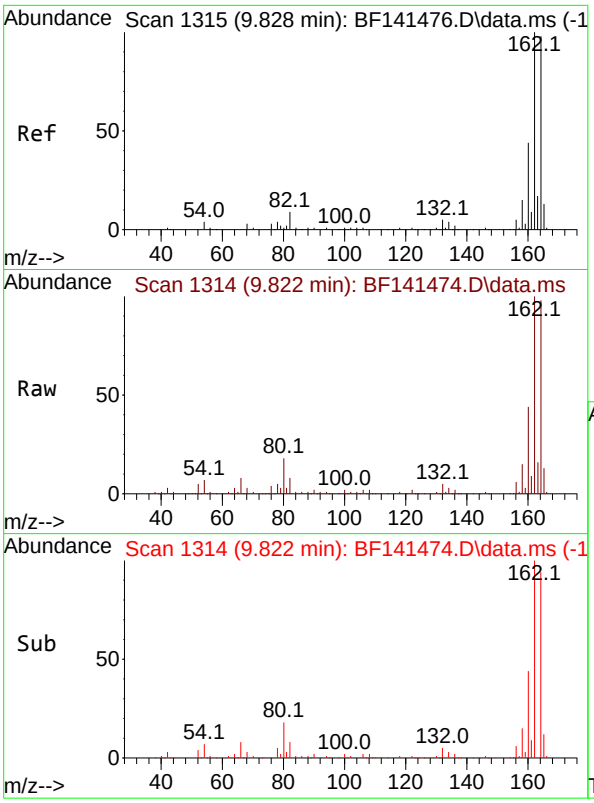


#38
1-Methylnaphthalene
Concen: 10.019 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:142 Resp: 118722

Ion	Ratio	Lower	Upper
142	100		
141	92.0	72.1	108.1

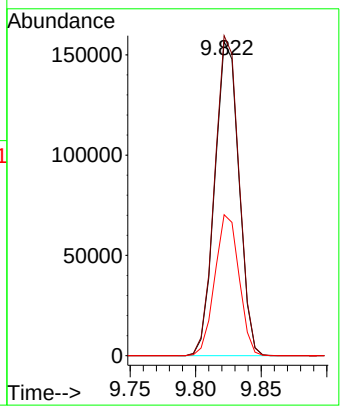




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:164 Resp: 20004

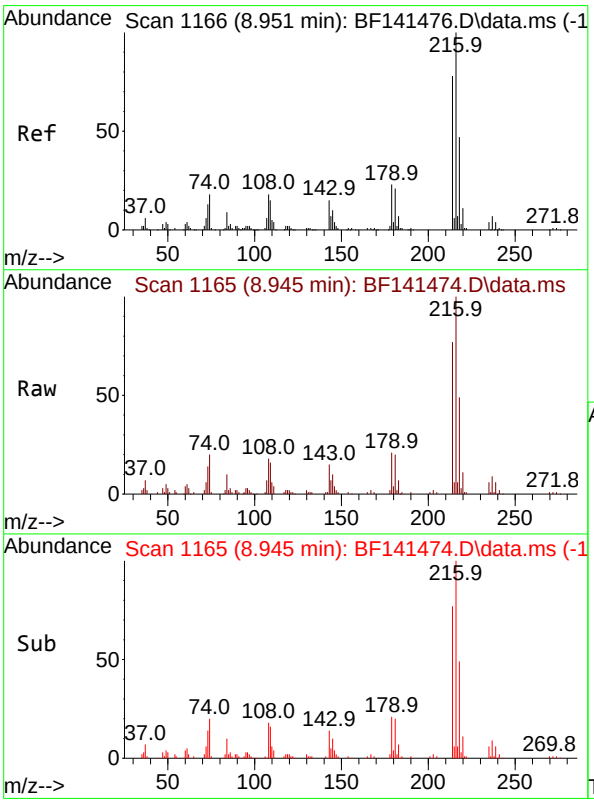
Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.3	121.9
160	44.9	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

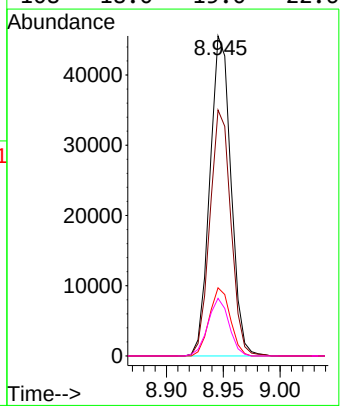
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

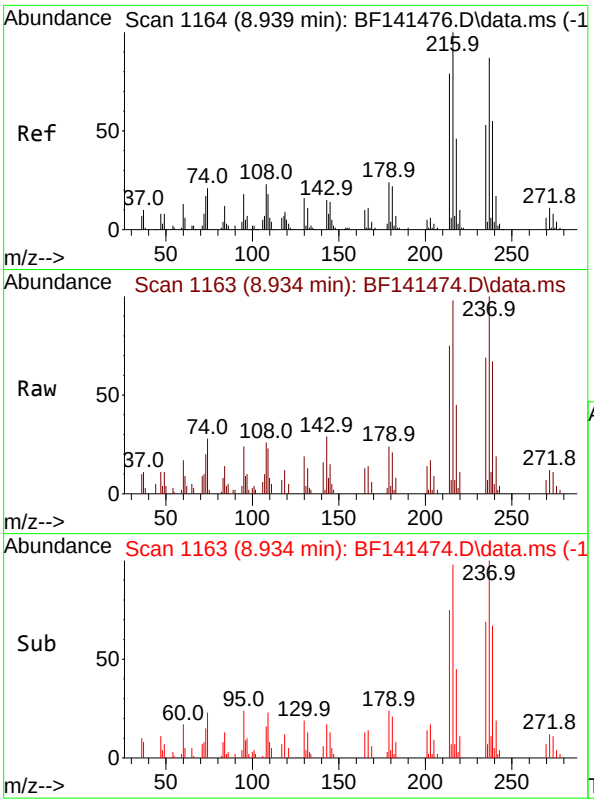


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.160 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:216 Resp: 58800

Ion	Ratio	Lower	Upper
216	100		
214	76.5	62.3	93.5
179	21.1	18.0	27.0
108	18.0	15.0	22.6





#41
Hexachlorocyclopentadiene
Concen: 7.161 ng
RT: 8.934 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

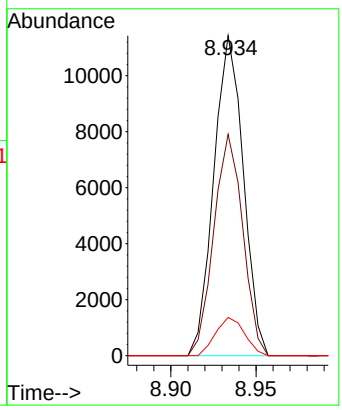
Tgt Ion:237 Resp: 1378

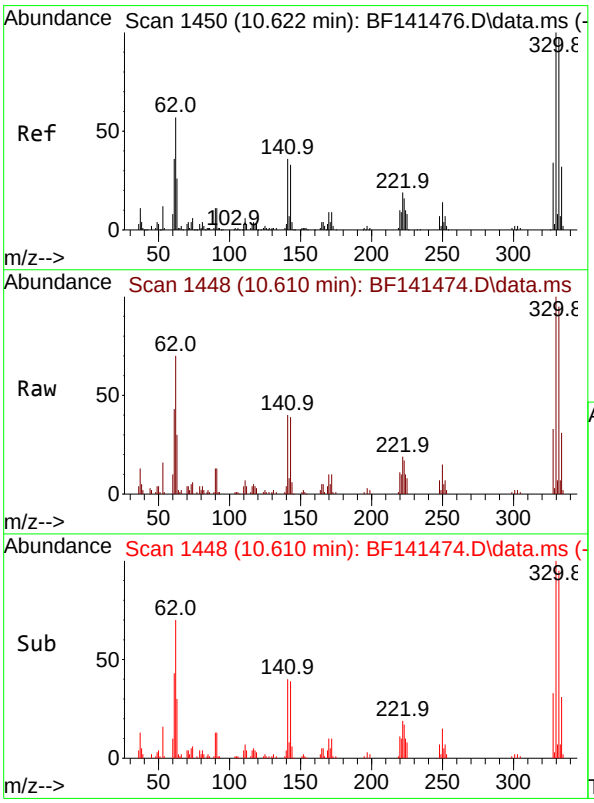
Ion	Ratio	Lower	Upper
237	100		
235	69.2	41.4	81.4
272	11.9	0.0	32.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

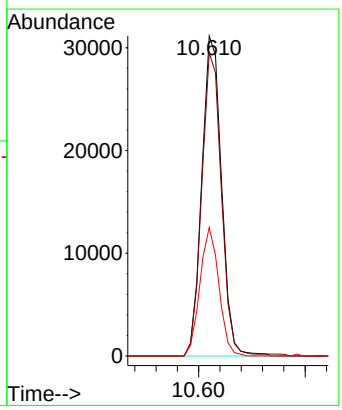


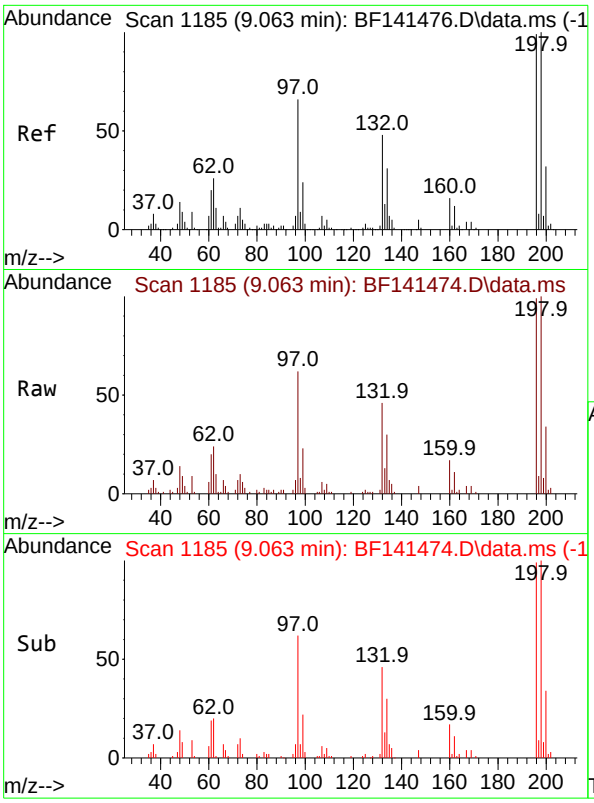


#42
2,4,6-Tribromophenol
Concen: 19.941 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:330 Resp: 40073

Ion	Ratio	Lower	Upper
330	100		
332	94.1	78.5	117.7
141	38.6	31.0	46.4

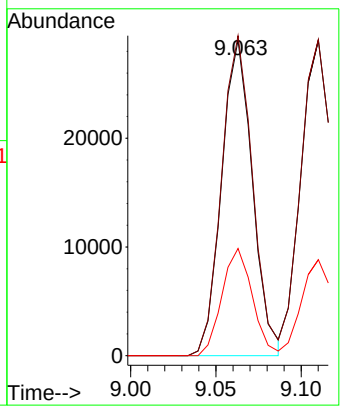




#43
2,4,6-Trichlorophenol
Concen: 9.773 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:196 Resp: 3655

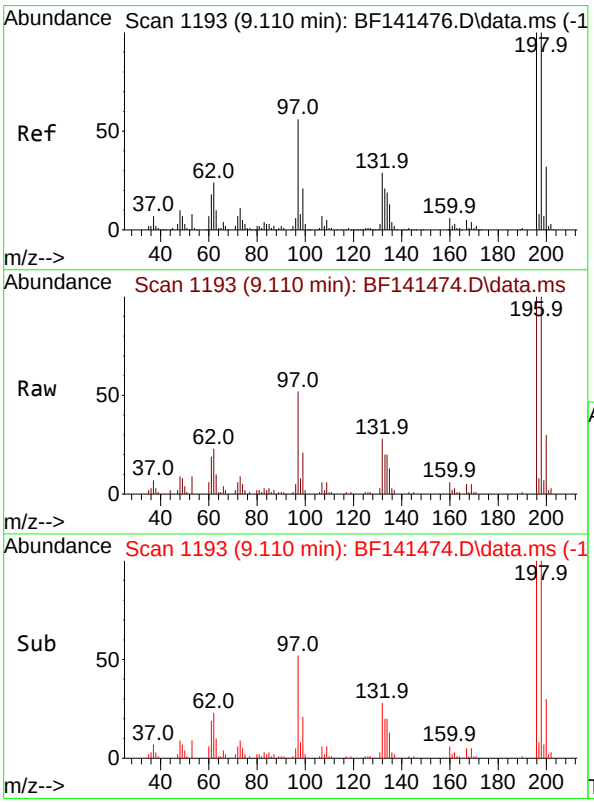
Ion	Ratio	Lower	Upper
196	100		
198	101.5	80.6	121.0
200	34.0	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

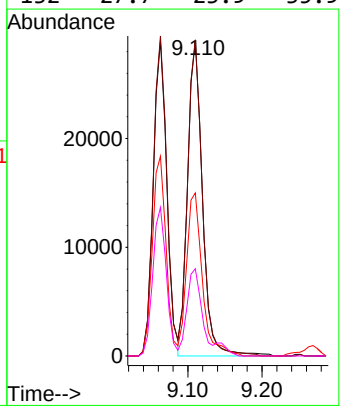
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

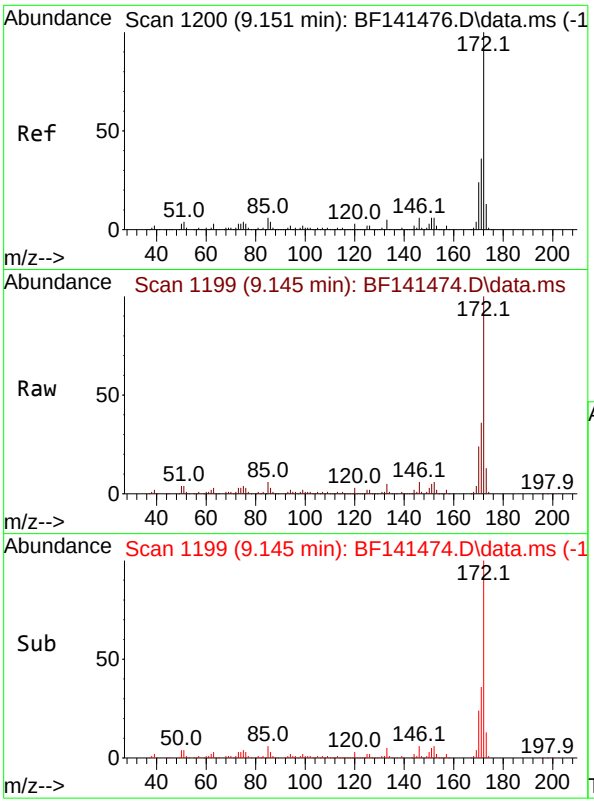


#44
2,4,5-Trichlorophenol
Concen: 10.039 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:196 Resp: 40697

Ion	Ratio	Lower	Upper
196	100		
198	100.3	79.8	119.8
97	51.7	44.8	67.2
132	27.7	23.9	35.9

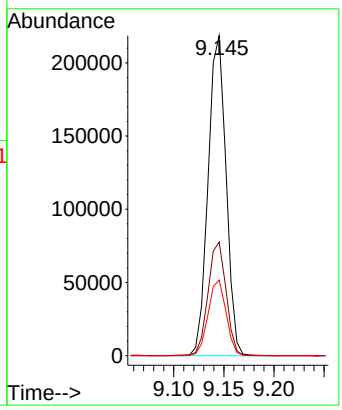




#45
2-Fluorobiphenyl
Concen: 20.947 ng
RT: 9.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:172 Resp: 27198

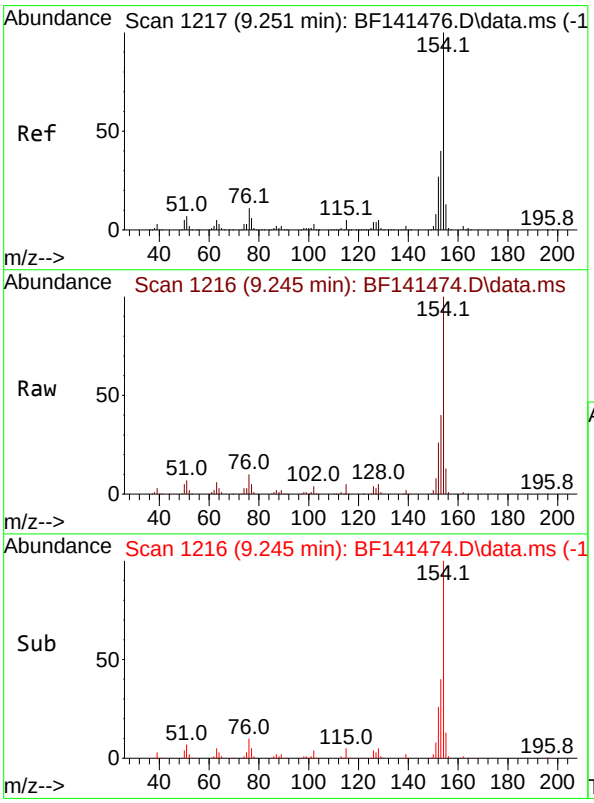
Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.7	43.1
170	23.6	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

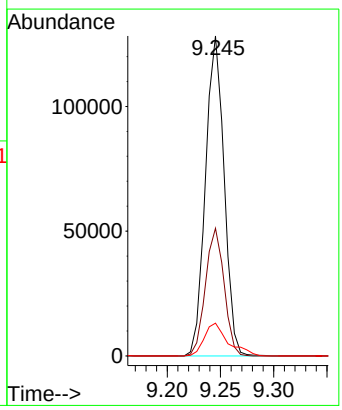
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

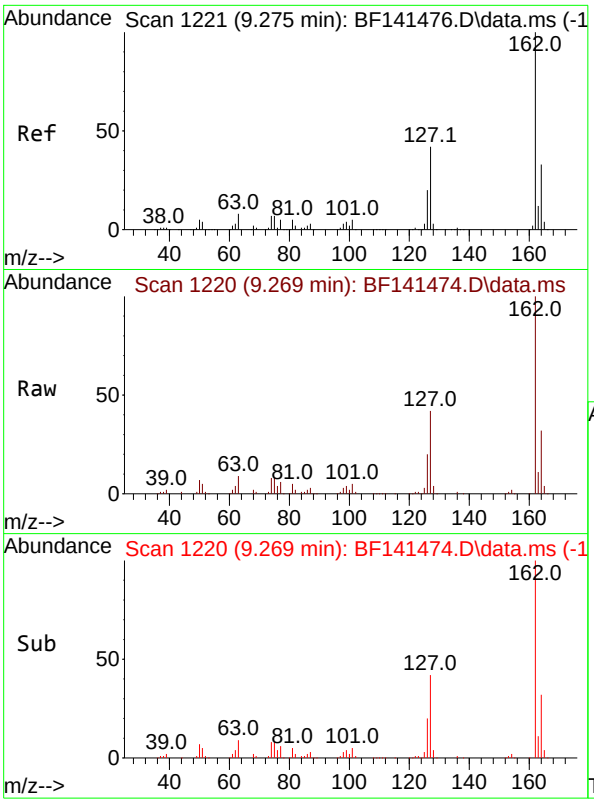


#46
1,1'-Biphenyl
Concen: 10.086 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:154 Resp: 156431

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.4	60.4
76	10.3	0.0	30.8

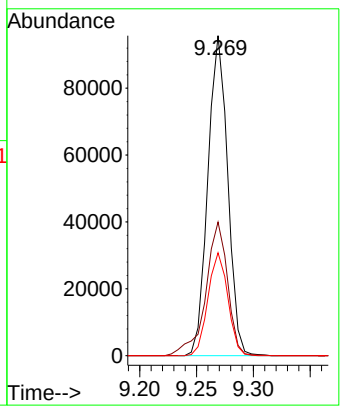




#47
2-Chloronaphthalene
Concen: 10.125 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:162 Resp: 11611

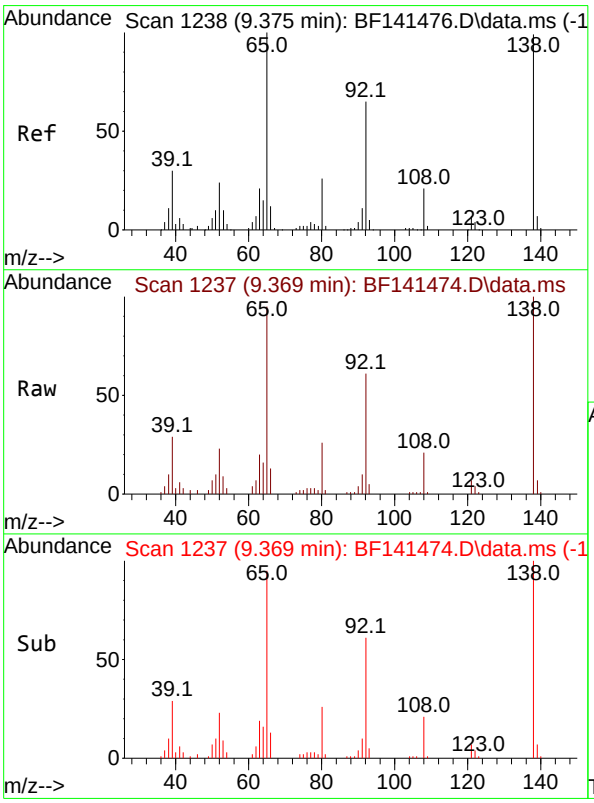
Ion	Ratio	Lower	Upper
162	100		
127	41.8	34.1	51.1
164	32.1	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

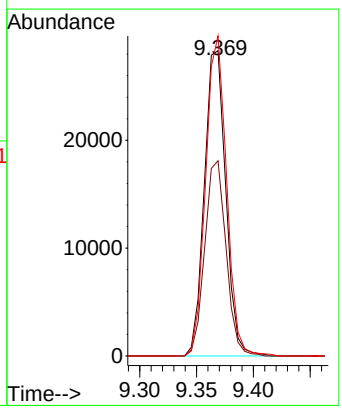
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

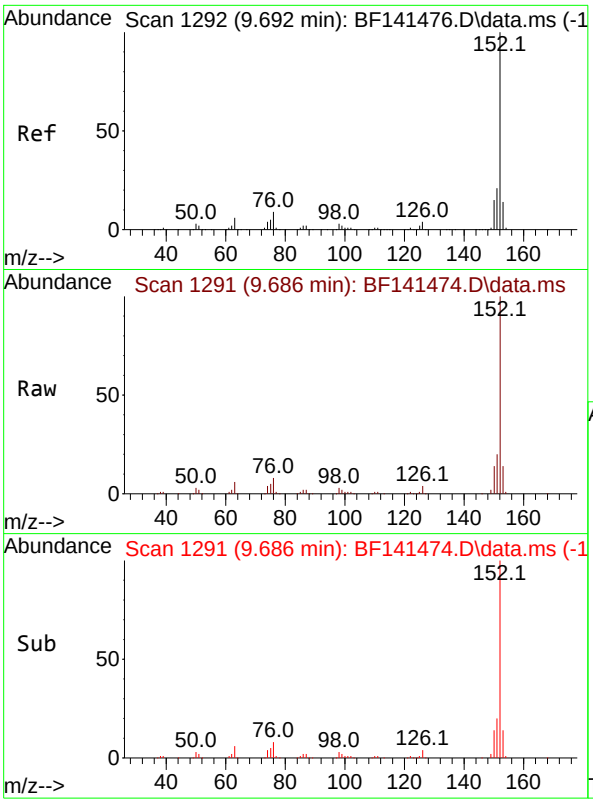


#48
2-Nitroaniline
Concen: 9.653 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 65 Resp: 37155

Ion	Ratio	Lower	Upper
65	100		
92	63.9	52.2	78.2
138	104.8	79.5	119.3

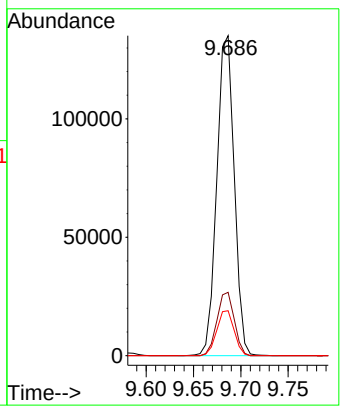




#49
Acenaphthylene
Concen: 10.179 ng
RT: 9.686 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:152 Resp: 17364

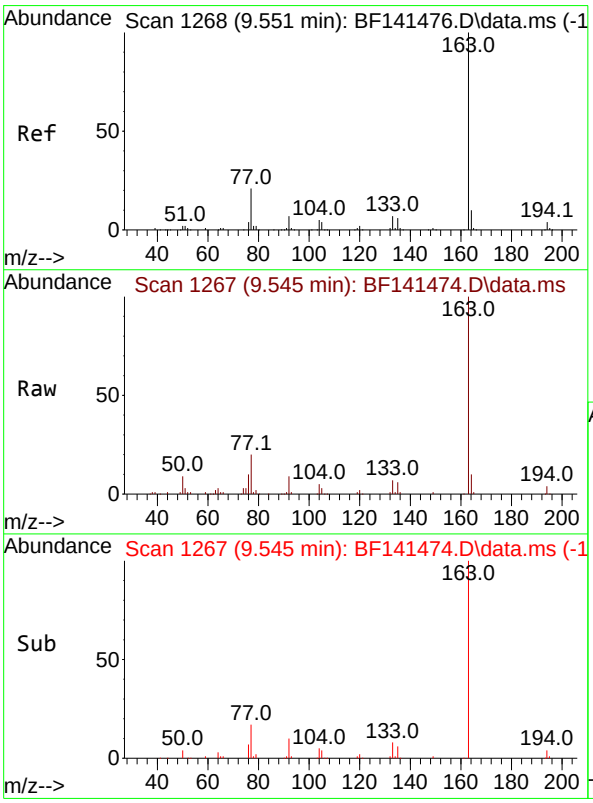
Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.4	24.6
153	14.1	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

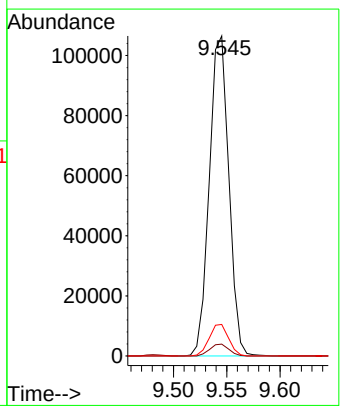
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

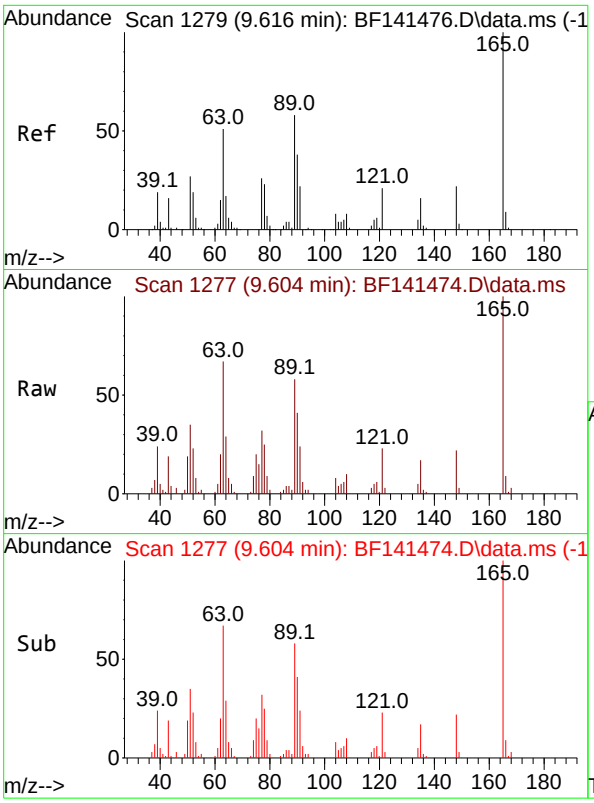


#50
Dimethylphthalate
Concen: 10.006 ng
RT: 9.545 min Scan# 1267
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:163 Resp: 135886

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.4
164	9.8	7.9	11.9

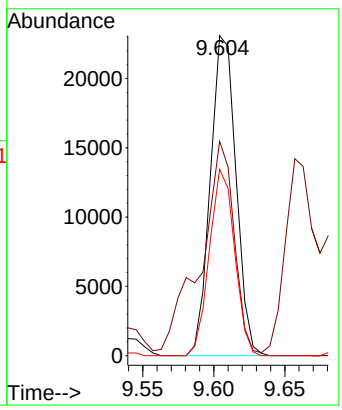




#51
2,6-Dinitrotoluene
Concen: 9.770 ng
RT: 9.604 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:165 Resp: 2900

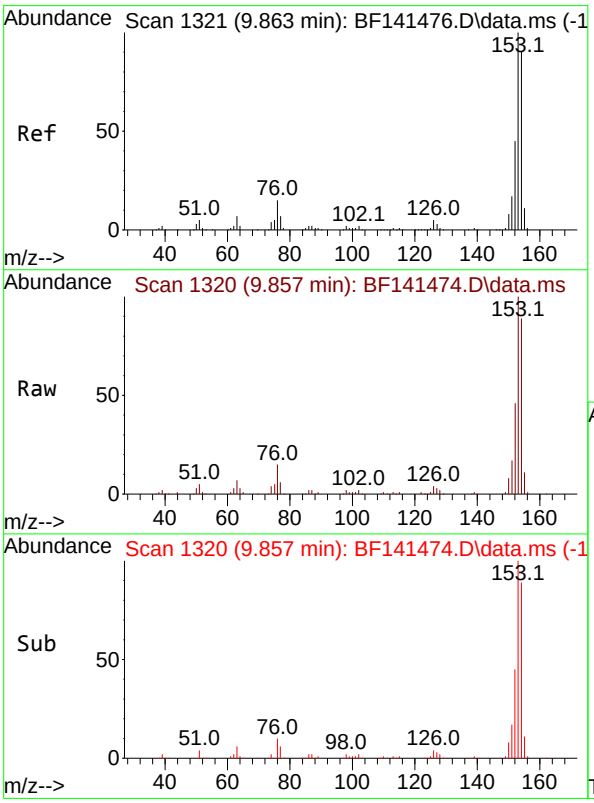
Ion	Ratio	Lower	Upper
165	100		
63	67.0	49.4	74.0
89	58.2	46.5	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

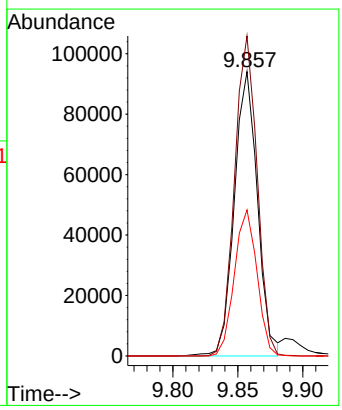
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

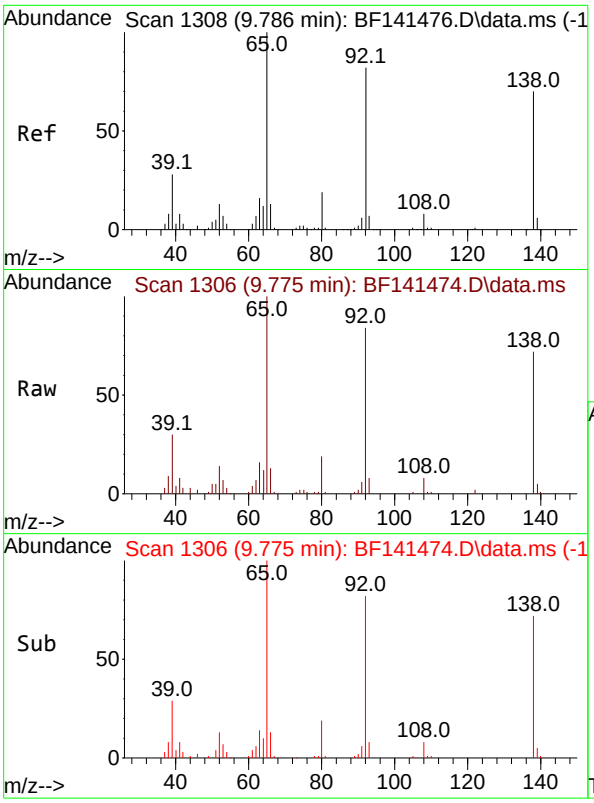


#52
Acenaphthene
Concen: 10.155 ng m
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:154 Resp: 116461

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.2	133.8
152	51.4	39.8	59.8

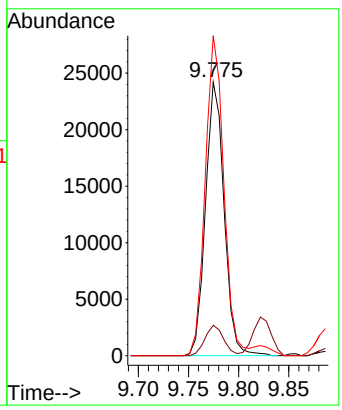




#53
3-Nitroaniline
Concen: 9.805 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:138 Resp: 3133

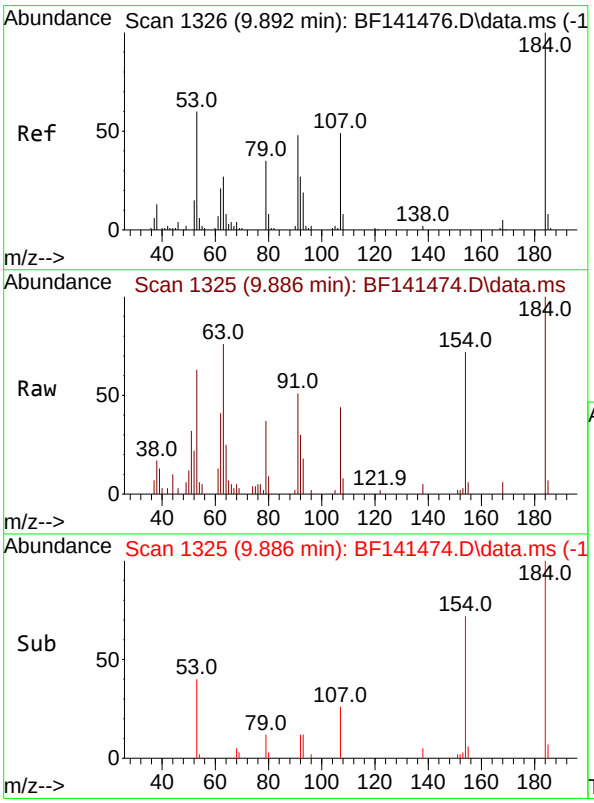
Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.0	13.4
92	116.9	93.7	140.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

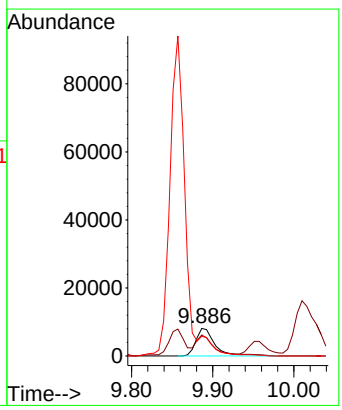
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

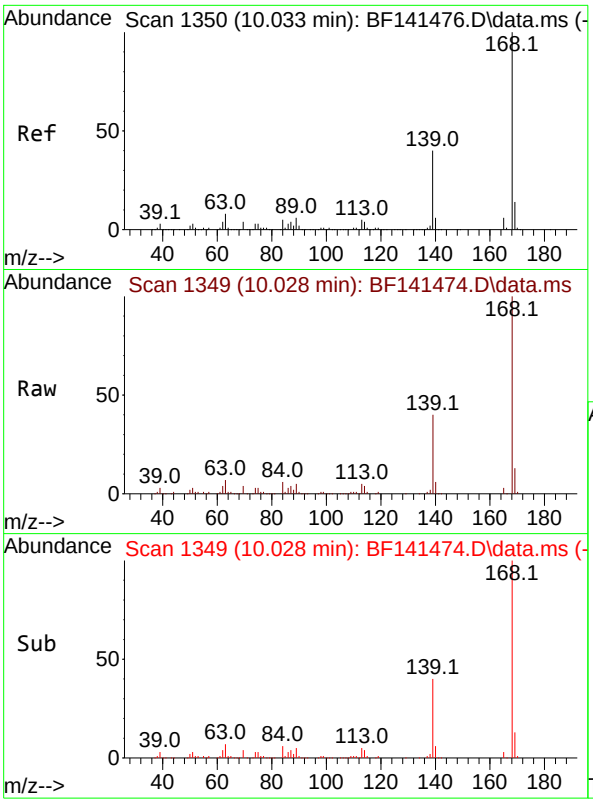


#54
2,4-Dinitrophenol
Concen: 7.561 ng
RT: 9.886 min Scan# 1325
Delta R.T. -0.018 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:184 Resp: 13341

Ion	Ratio	Lower	Upper
184	100		
63	75.9	61.0	91.6
154	71.6	59.9	89.9

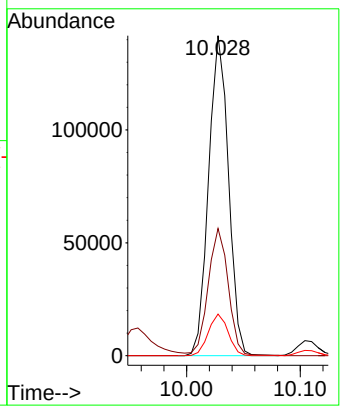




#55
Dibenzofuran
Concen: 10.230 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:168 Resp: 17220

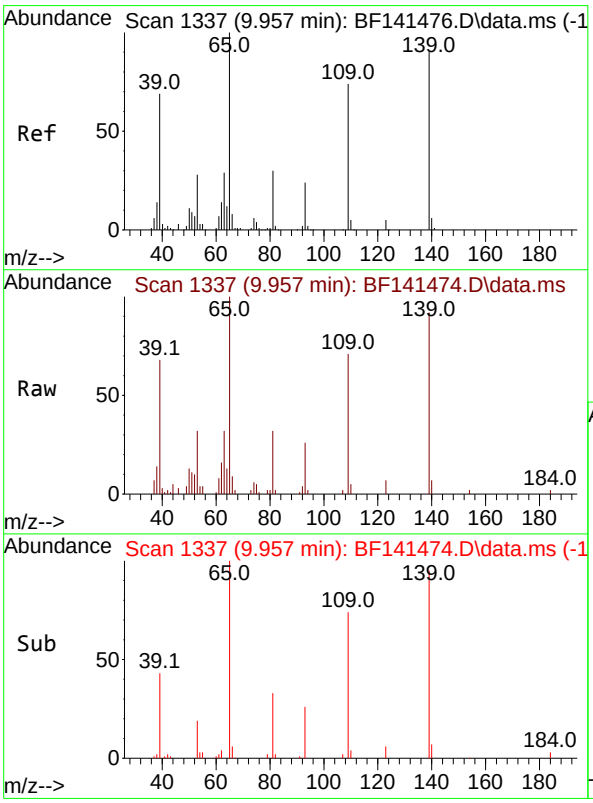
Ion	Ratio	Lower	Upper
168	100		
139	39.8	32.7	49.1
169	13.0	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

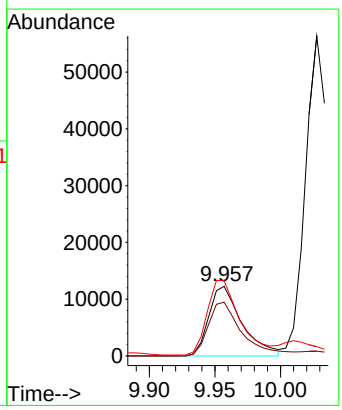
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

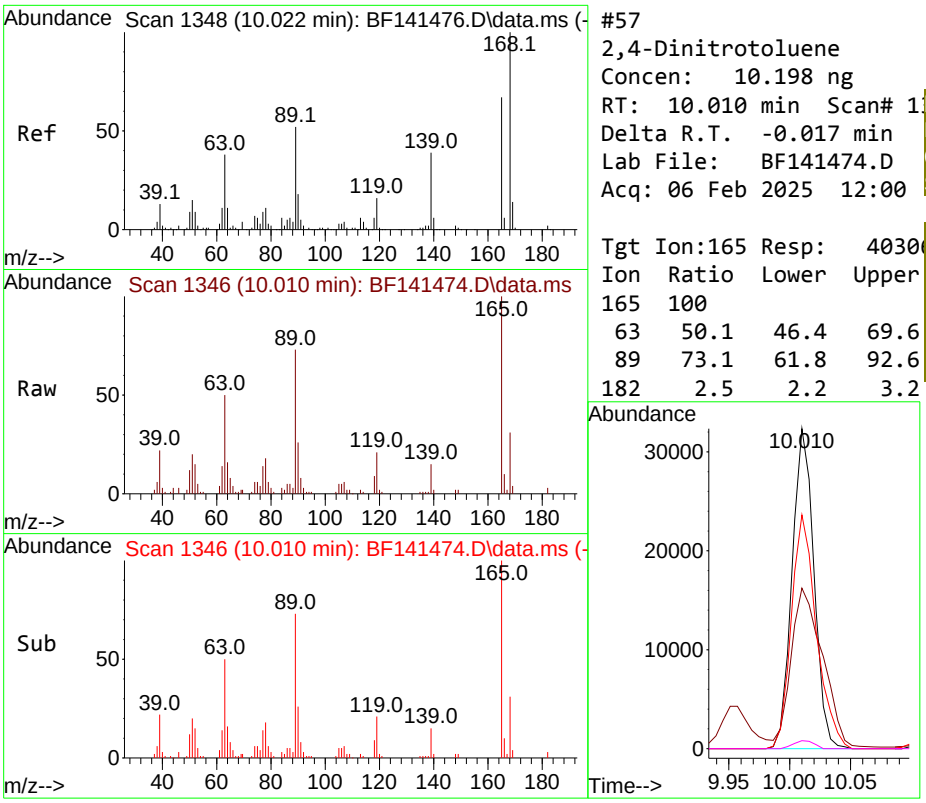


#56
4-Nitrophenol
Concen: 9.093 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:139 Resp: 21569

Ion	Ratio	Lower	Upper
139	100		
109	77.2	62.0	102.0
65	108.2	91.2	131.2





#57
2,4-Dinitrotoluene
Concen: 10.198 ng
RT: 10.010 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

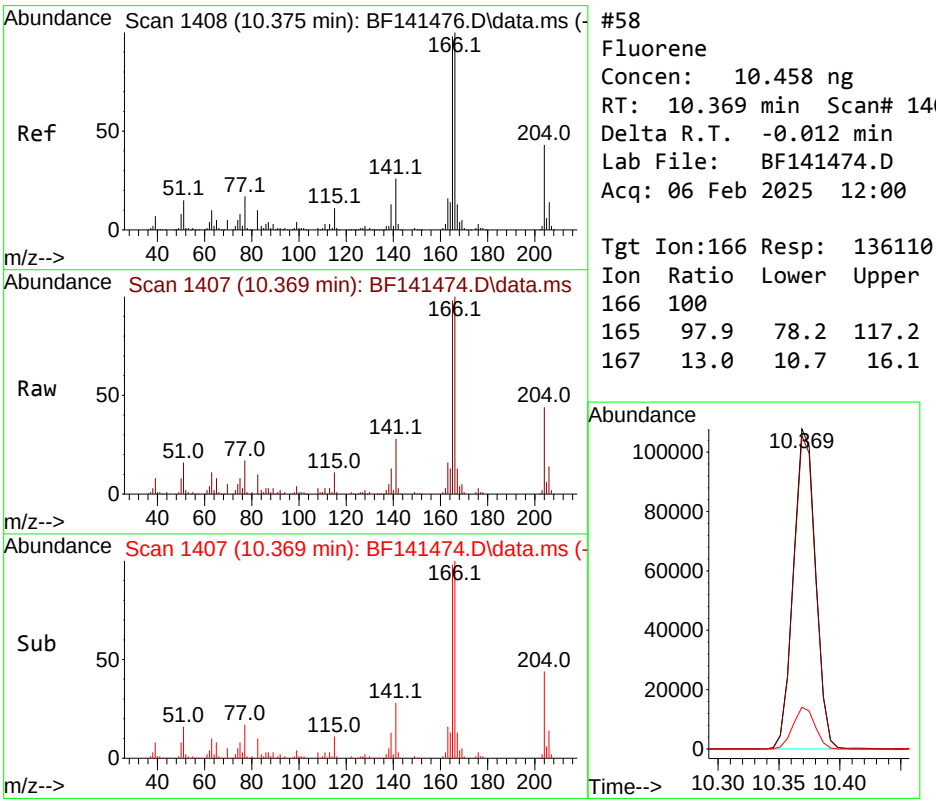
Tgt Ion:165 Resp: 4030

Ion	Ratio	Lower	Upper
165	100		
63	50.1	46.4	69.6
89	73.1	61.8	92.6
182	2.5	2.2	3.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

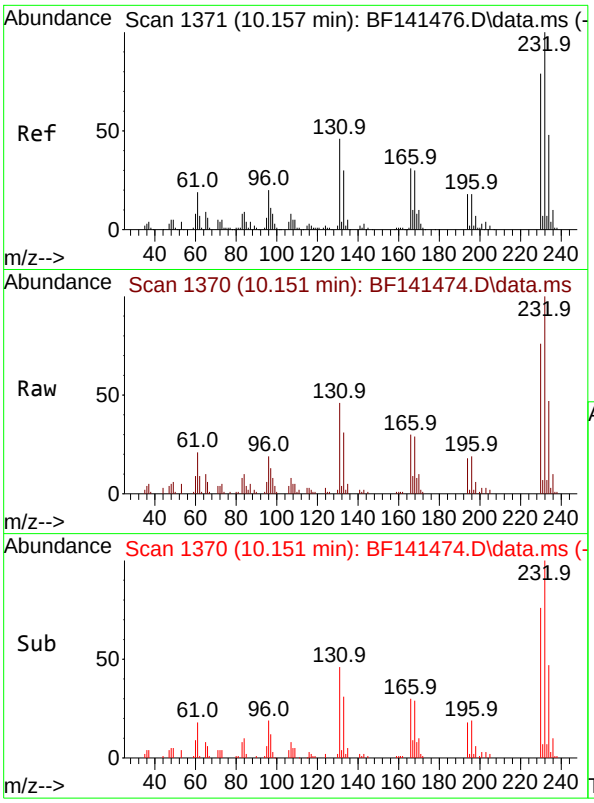
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#58
Fluorene
Concen: 10.458 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:166 Resp: 136110

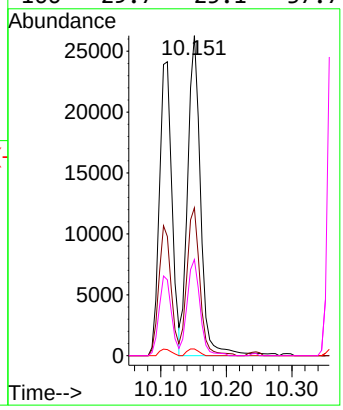
Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.2	117.2
167	13.0	10.7	16.1



#59
2,3,4,6-Tetrachlorophenol
Concen: 10.344 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:232 Resp: 3610

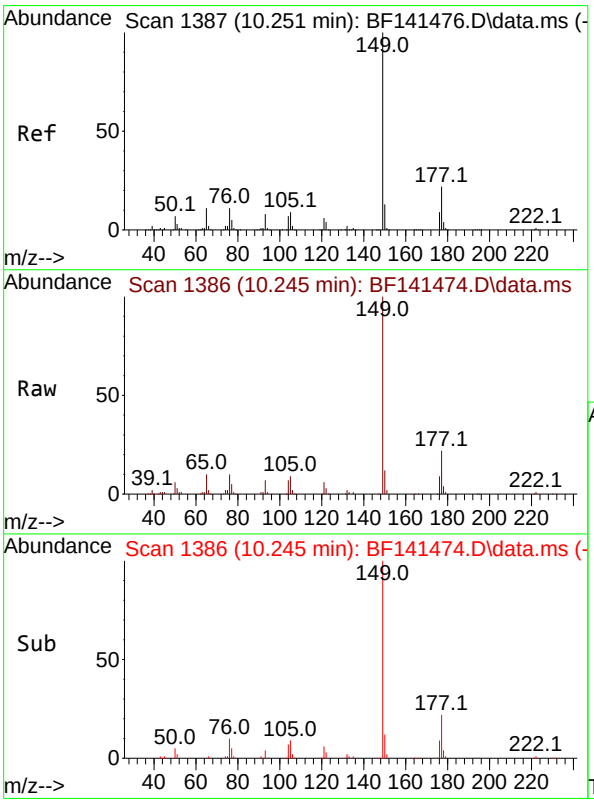
Ion	Ratio	Lower	Upper
232	100		
131	45.8	39.2	58.8
130	1.9	2.1	3.1#
166	29.7	25.1	37.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

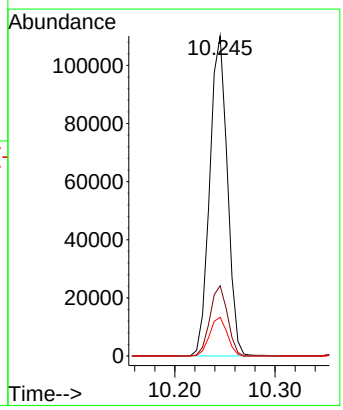
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

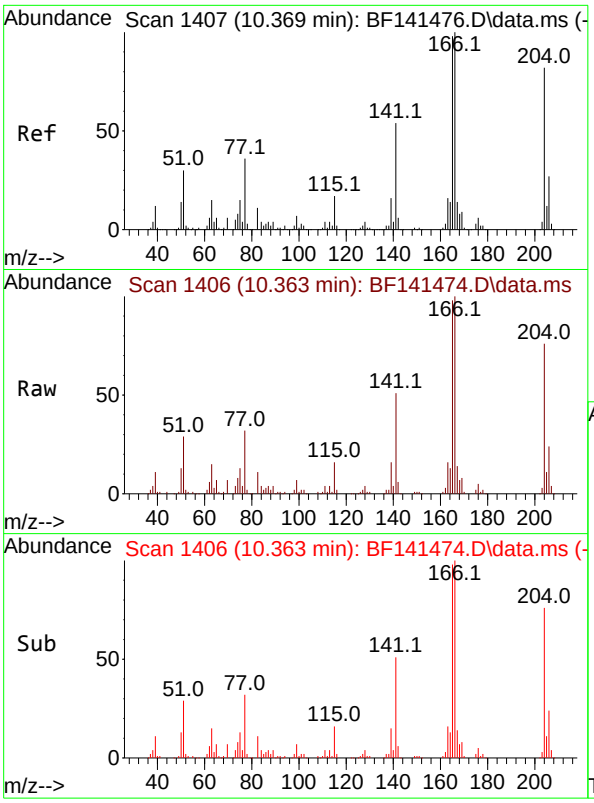


#60
Diethylphthalate
Concen: 10.073 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 134593

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.8	26.6
150	12.1	10.1	15.1

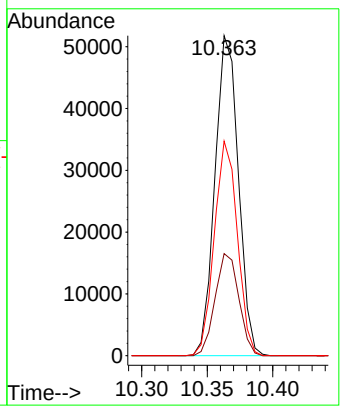




#61
4-Chlorophenyl-phenylether
Concen: 10.270 ng
RT: 10.363 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:204 Resp: 6430

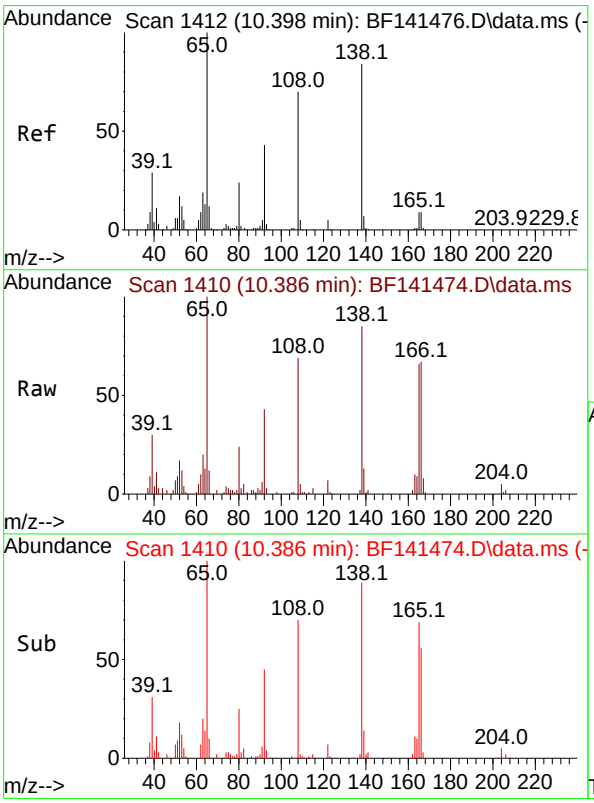
Ion	Ratio	Lower	Upper
204	100		
206	31.9	26.6	40.0
141	67.1	51.9	77.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

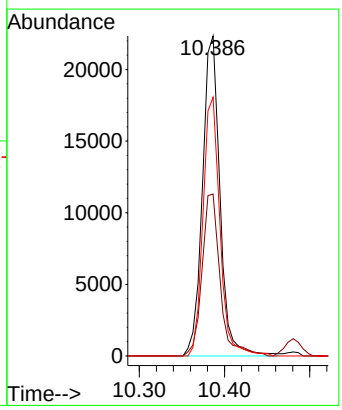
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

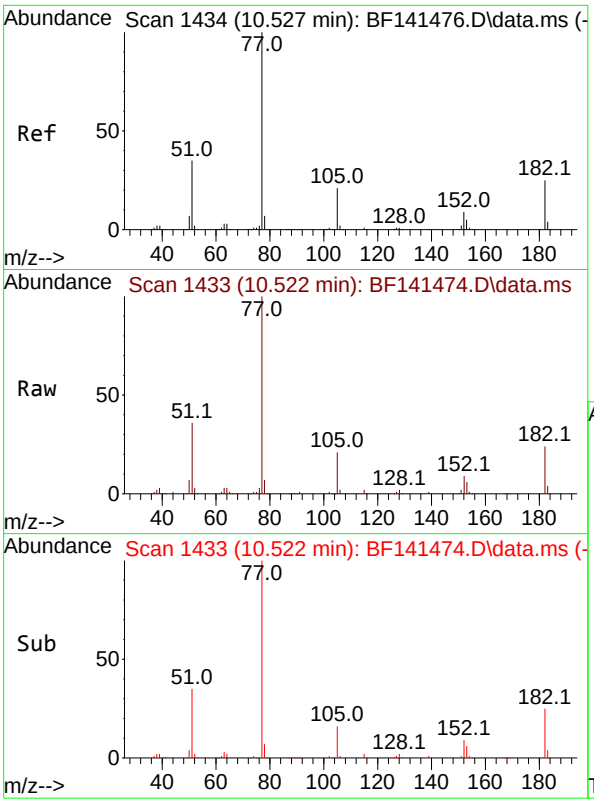


#62
4-Nitroaniline
Concen: 9.842 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.029 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:138 Resp: 31934

Ion	Ratio	Lower	Upper
138	100		
92	50.6	31.3	71.3
108	80.8	63.7	103.7

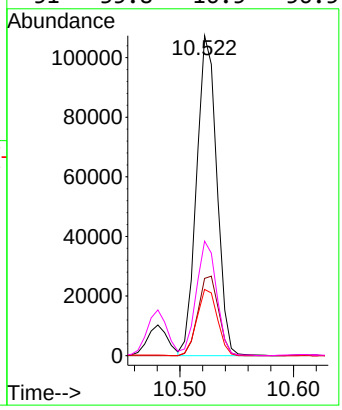




#63
Azobenzene
Concen: 10.010 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.011 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 77 Resp: 13296

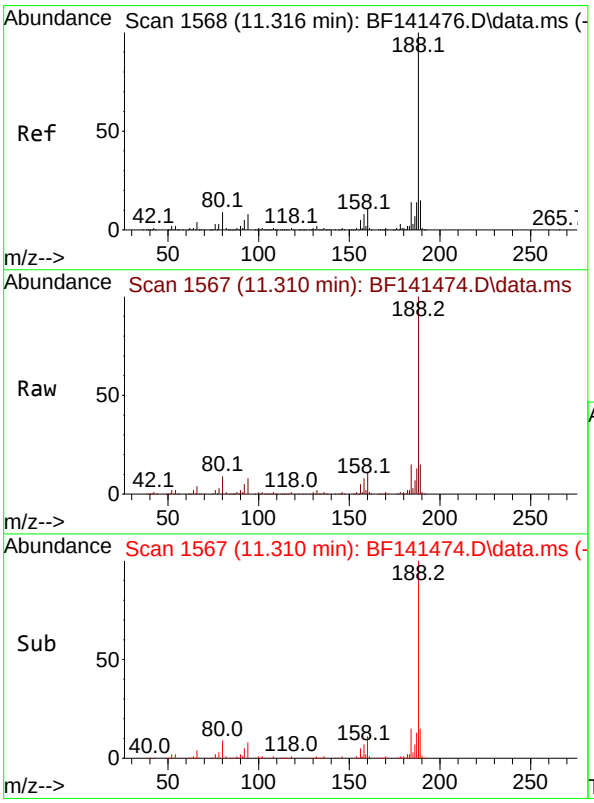
Ion	Ratio	Lower	Upper
77	100		
182	24.1	4.7	44.7
105	20.7	0.4	40.4
51	35.8	16.5	56.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

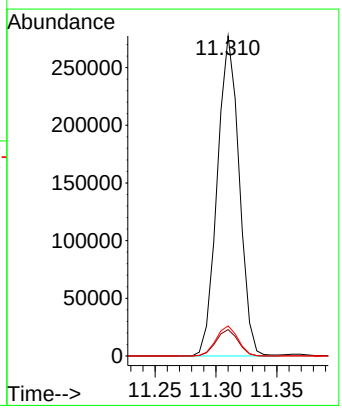
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

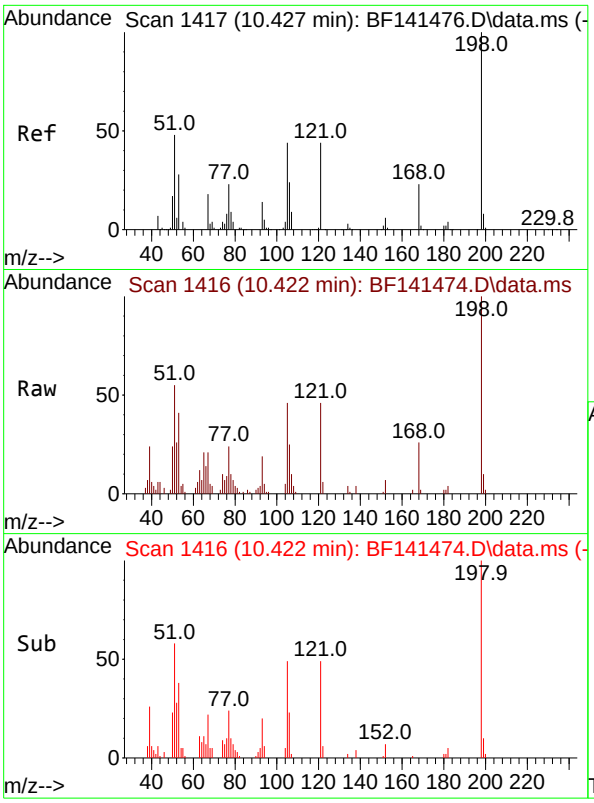


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:188 Resp: 347312

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.4	7.3	10.9

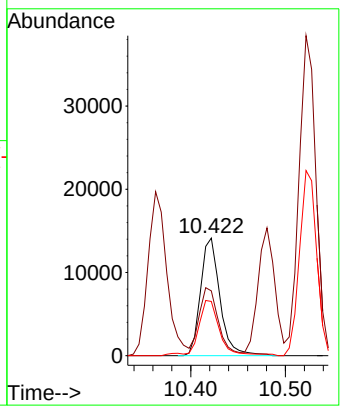




#65
4,6-Dinitro-2-methylphenol
Concen: 8.320 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:198 Resp: 2007

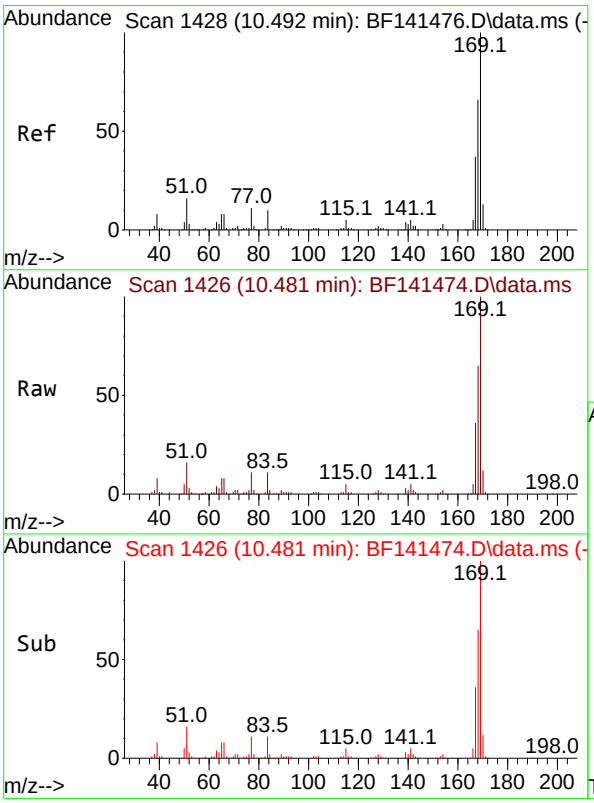
Ion	Ratio	Lower	Upper
198	100		
51	55.2	37.4	77.4
105	46.2	25.2	65.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

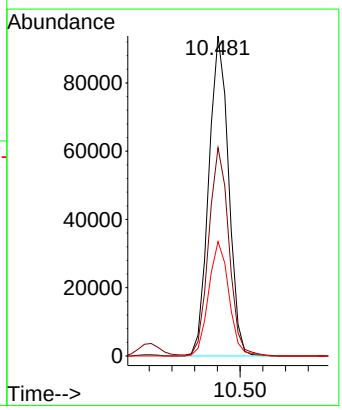
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

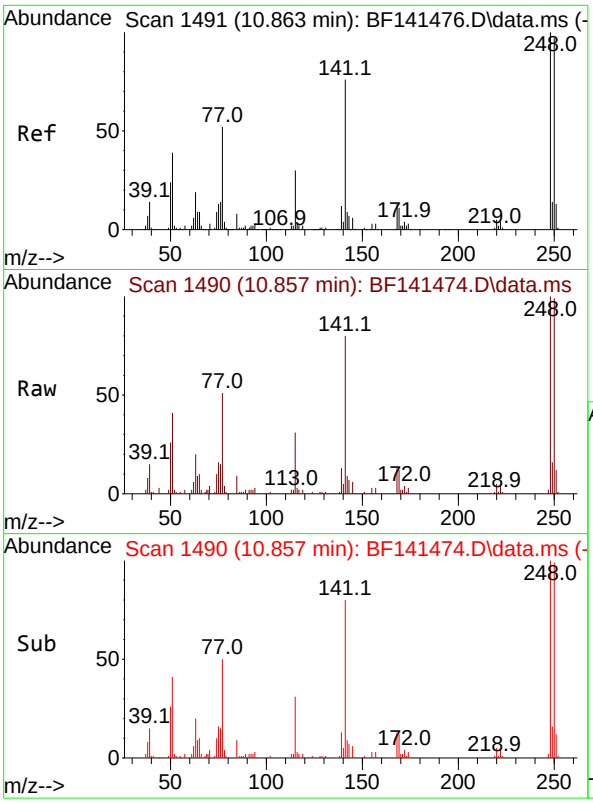


#66
n-Nitrosodiphenylamine
Concen: 10.201 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:169 Resp: 113408

Ion	Ratio	Lower	Upper
169	100		
168	65.1	53.3	79.9
167	35.7	29.4	44.2

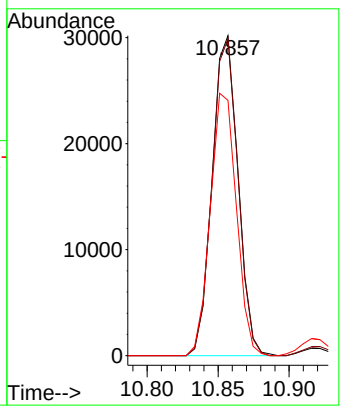




#67
4-Bromophenyl-phenylether
Concen: 9.856 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:248 Resp: 3825

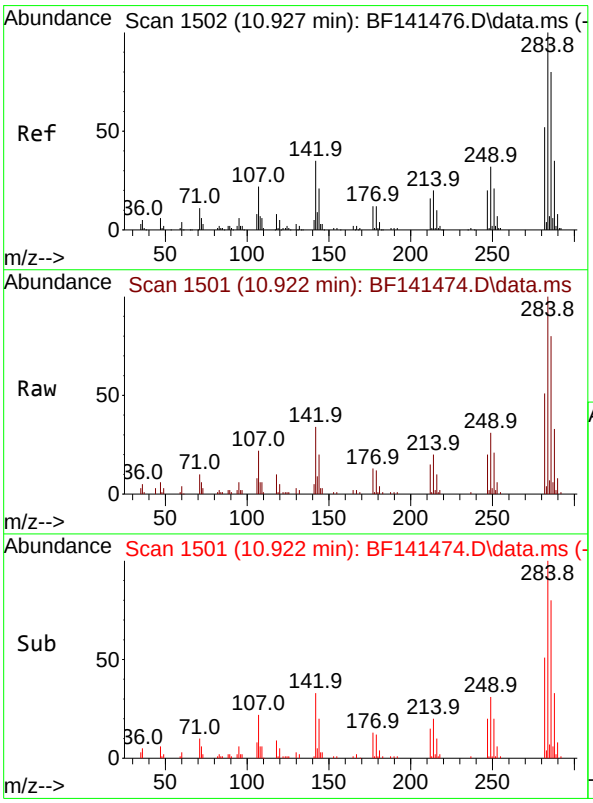
Ion	Ratio	Lower	Upper
248	100		
250	99.1	77.8	116.6
141	79.8	60.6	90.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

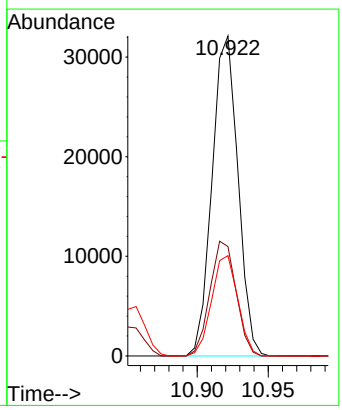
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

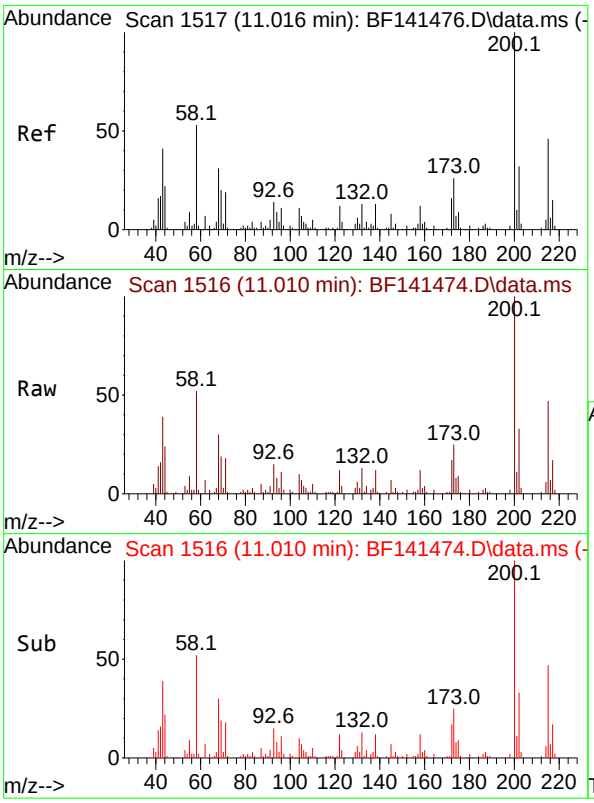


#68
Hexachlorobenzene
Concen: 10.186 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:284 Resp: 40715

Ion	Ratio	Lower	Upper
284	100		
142	34.2	28.0	42.0
249	31.3	25.8	38.8

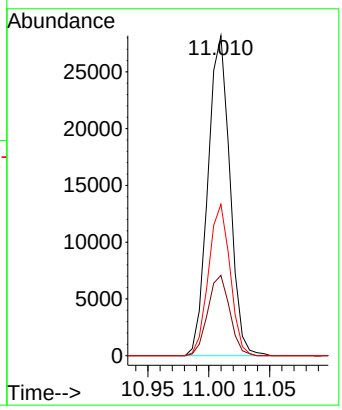




#69
Atrazine
Concen: 10.580 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:200 Resp: 3528

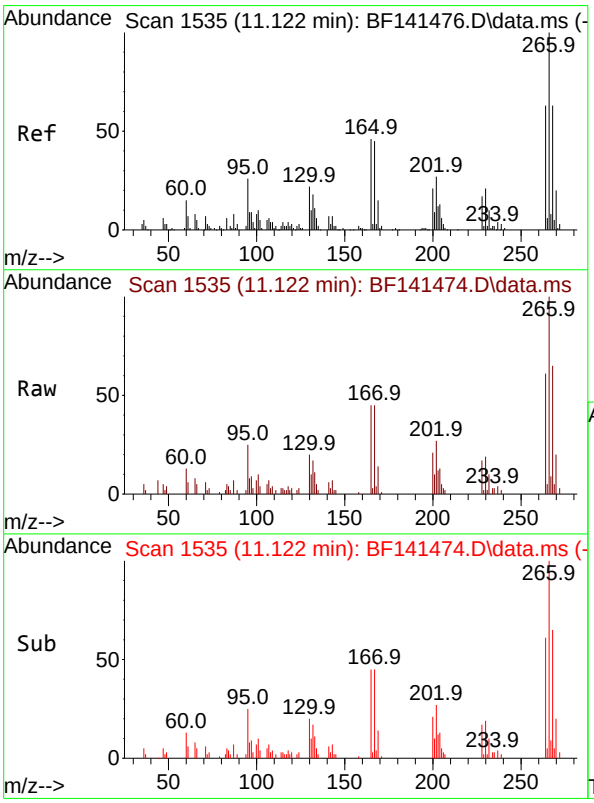
Ion	Ratio	Lower	Upper
200	100		
173	25.1	5.9	45.9
215	47.3	25.9	65.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

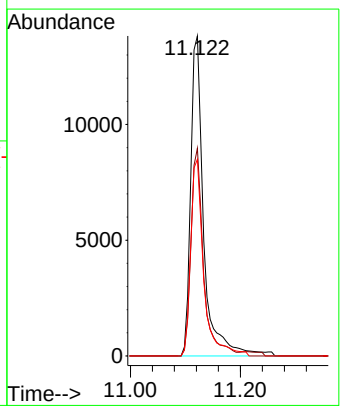
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

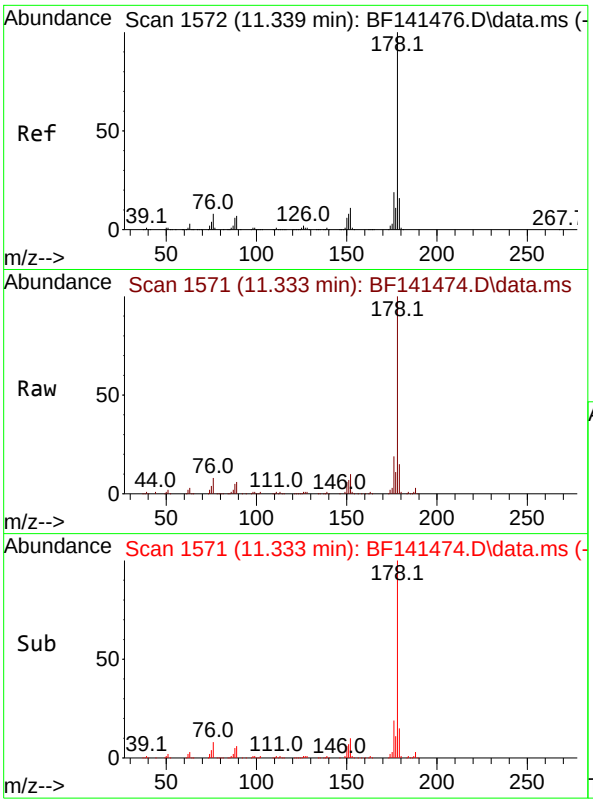


#70
Pentachlorophenol
Concen: 8.895 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:266 Resp: 22735

Ion	Ratio	Lower	Upper
266	100		
268	64.9	50.1	75.1
264	61.5	50.1	75.1

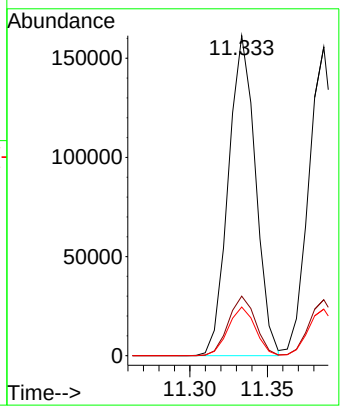




#71
Phenanthrene
Concen: 10.283 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:178 Resp: 19658

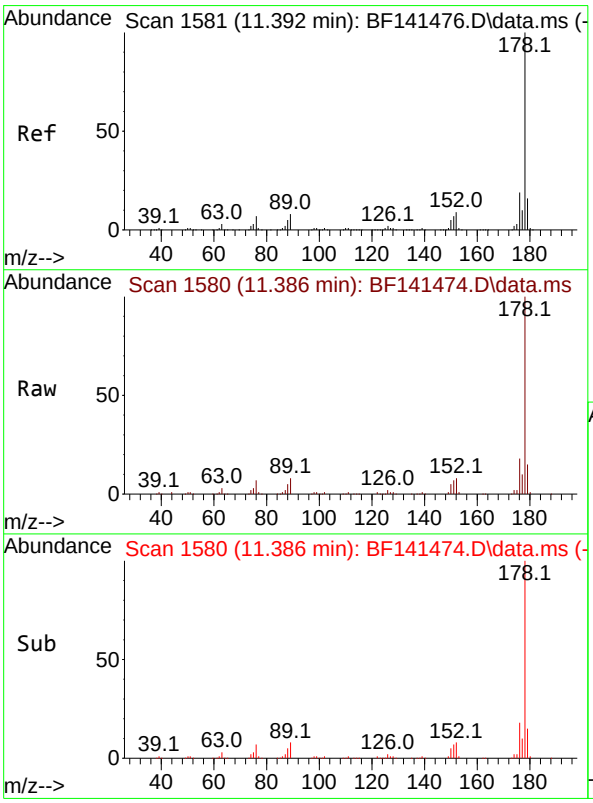
Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.0
179	15.2	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

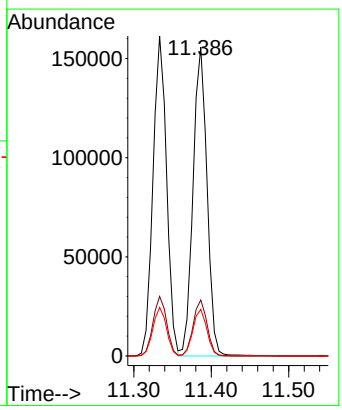
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

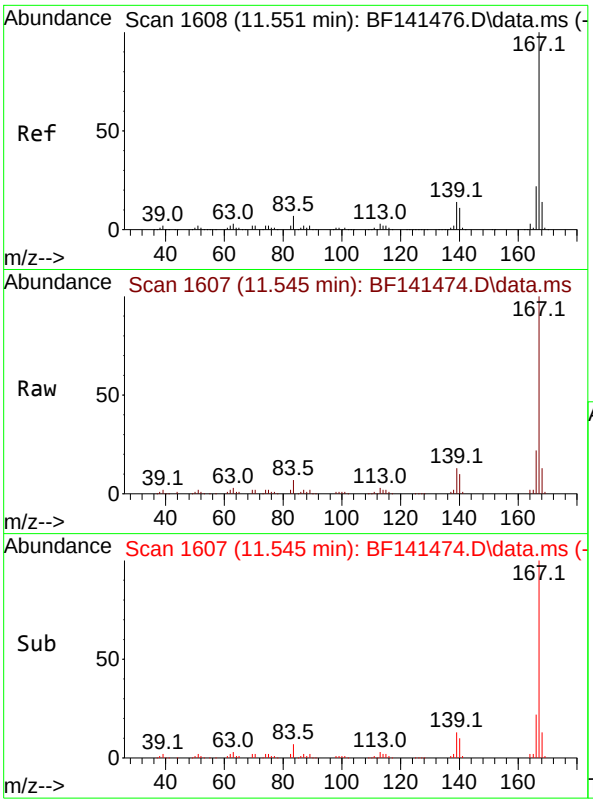


#72
Anthracene
Concen: 10.174 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:178 Resp: 195528

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.8	22.2
179	15.1	12.4	18.6

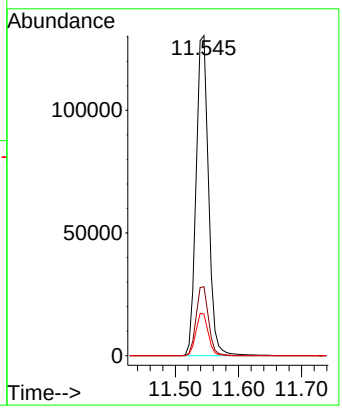




#73
Carbazole
Concen: 10.306 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:167 Resp: 17822

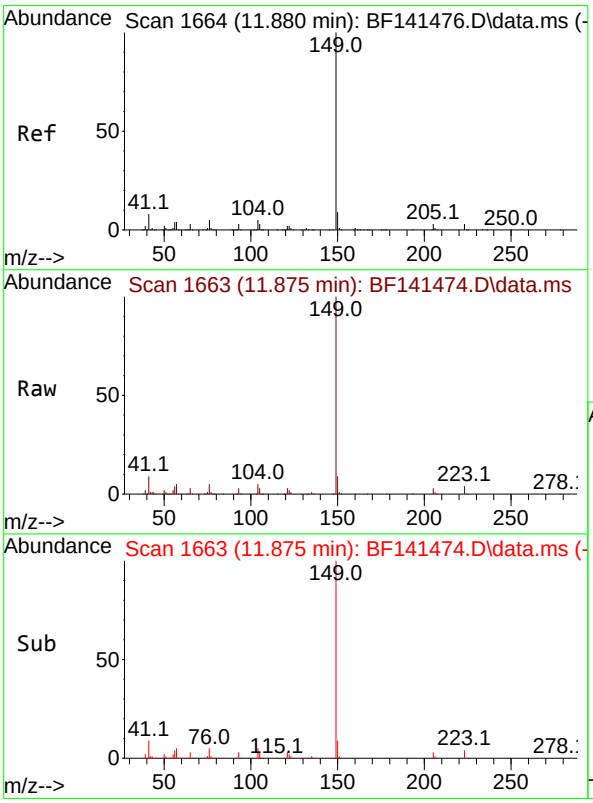
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.0	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

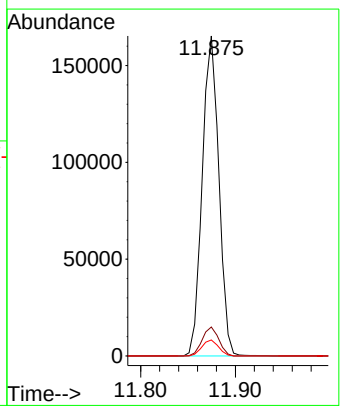
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

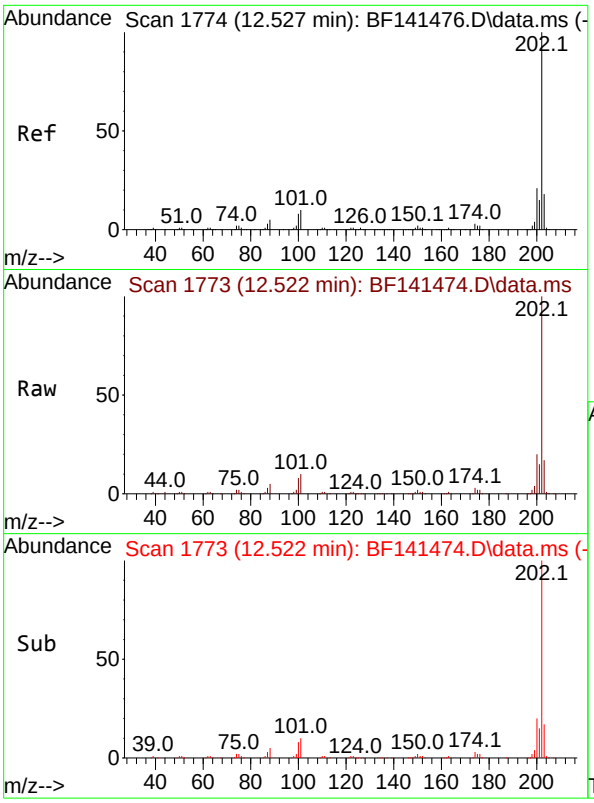


#74
Di-n-butylphthalate
Concen: 10.057 ng
RT: 11.875 min Scan# 1663
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 200806

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.0	4.2	6.2

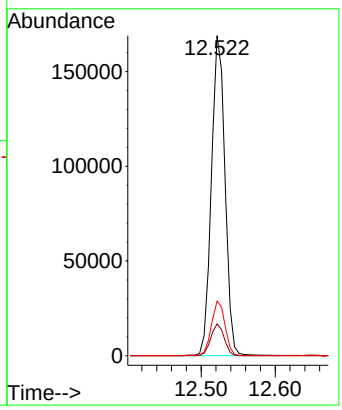




#75
Fluoranthene
Concen: 10.618 ng
RT: 12.522 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:202 Resp: 21521

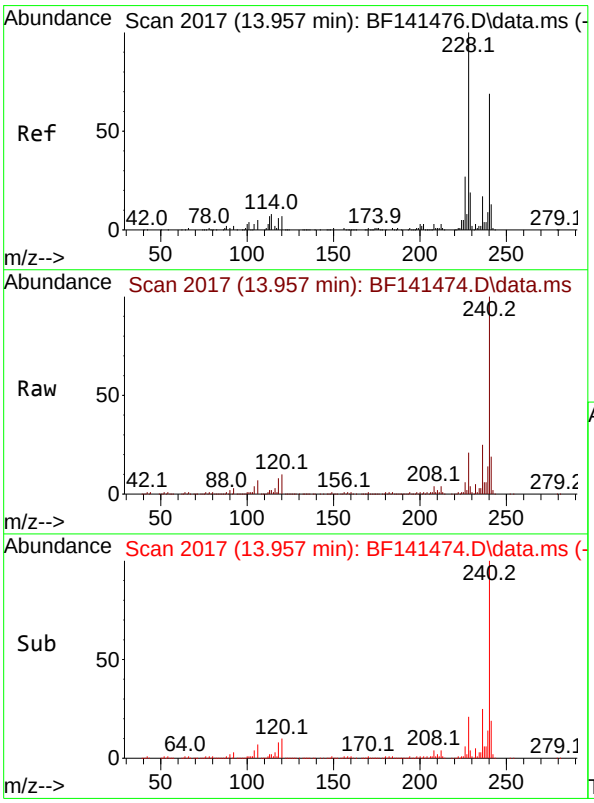
Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	30.2
203	17.0	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

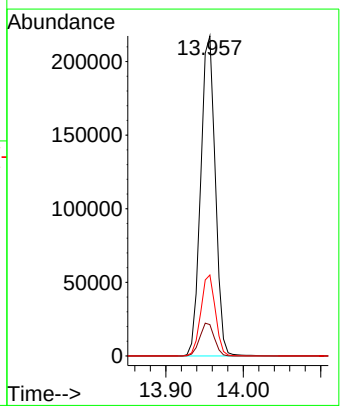
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

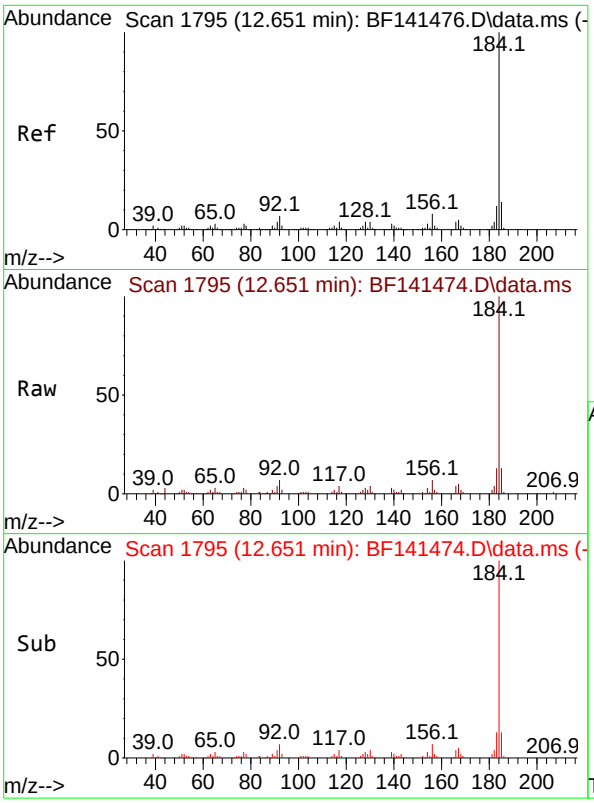


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:240 Resp: 284792

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.0	12.0
236	25.3	19.8	29.8

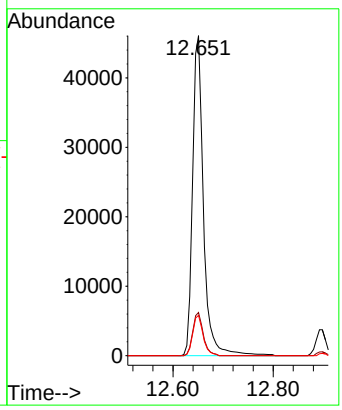




#77
Benzidine
Concen: 11.050 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:184 Resp: 6940

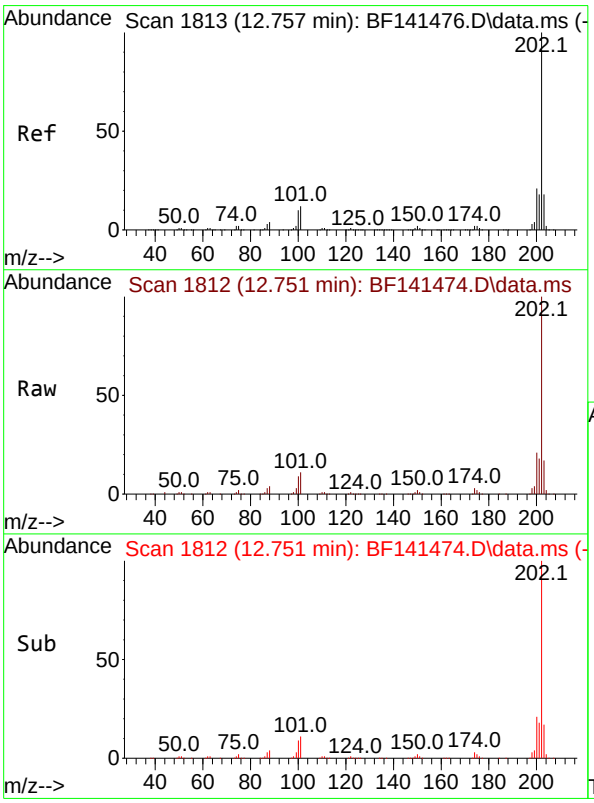
Ion	Ratio	Lower	Upper
184	100		
185	13.5	11.3	16.9
183	12.6	9.3	13.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

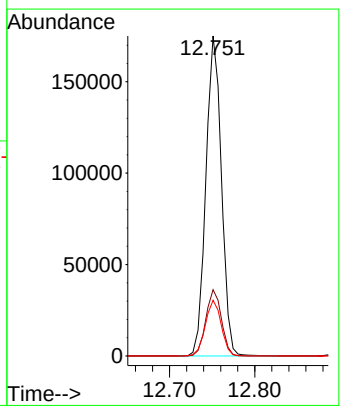
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

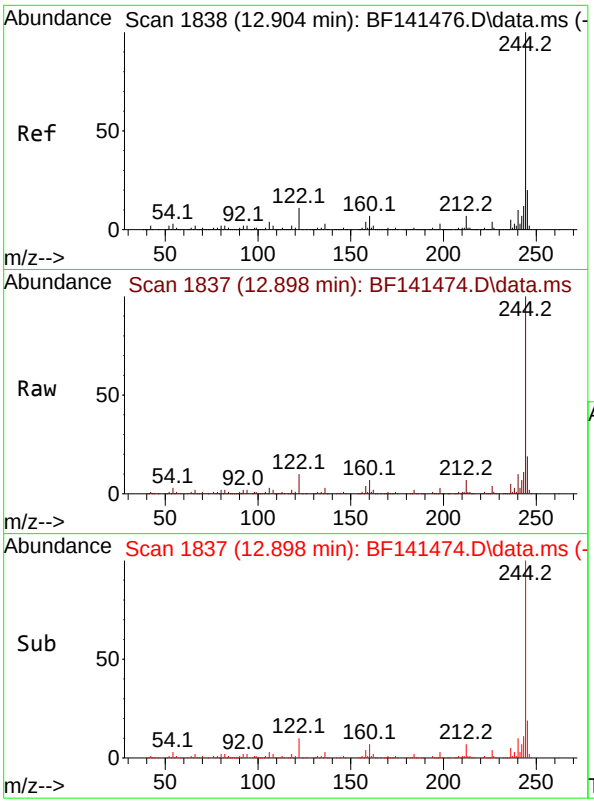


#78
Pyrene
Concen: 9.146 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:202 Resp: 221721

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.4	14.3	21.5

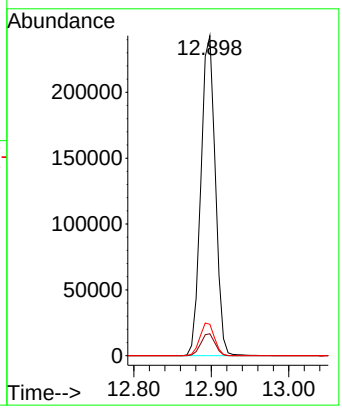




#79
Terphenyl-d14
Concen: 18.645 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:244 Resp: 31454

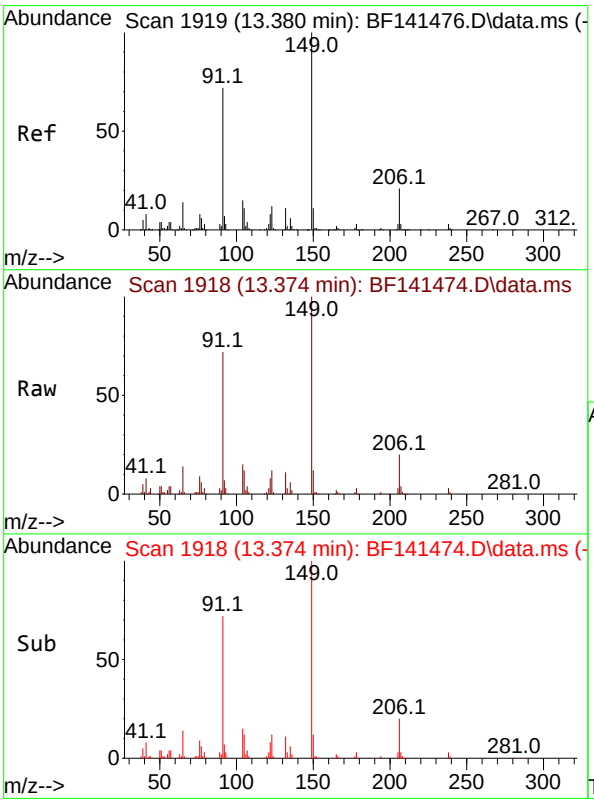
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	9.8	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

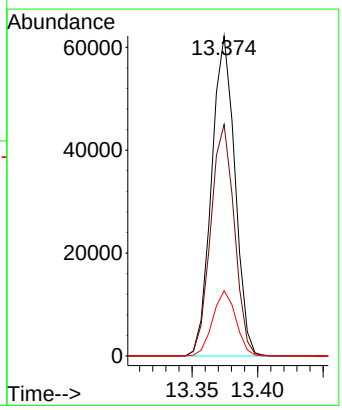
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

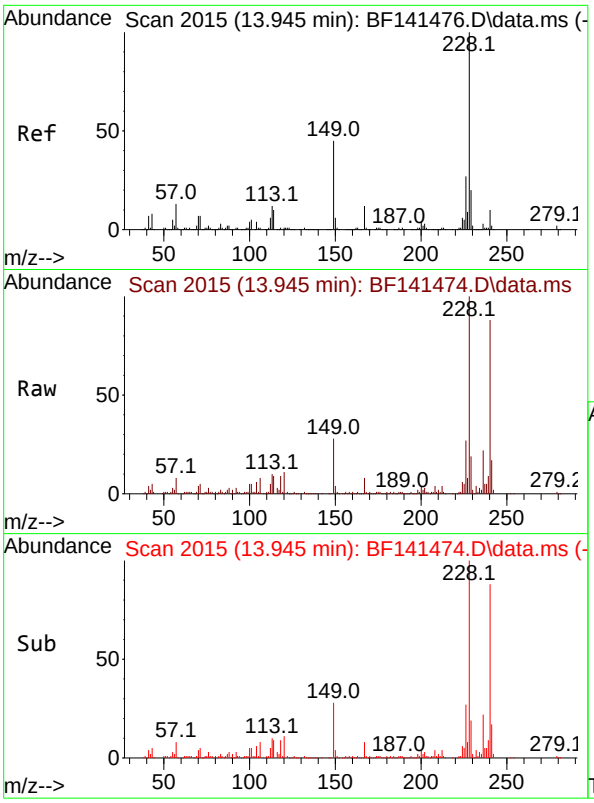


#80
Butylbenzylphthalate
Concen: 9.152 ng
RT: 13.374 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 76852

Ion	Ratio	Lower	Upper
149	100		
91	72.3	57.8	86.8
206	20.4	16.7	25.1

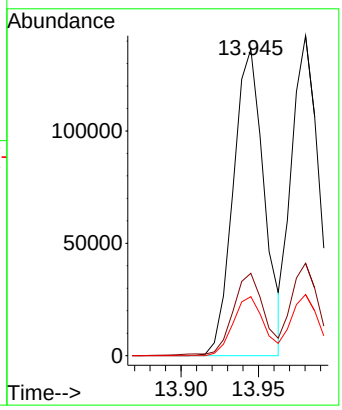




#81
Benzo(a)anthracene
Concen: 10.021 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:228 Resp: 18970

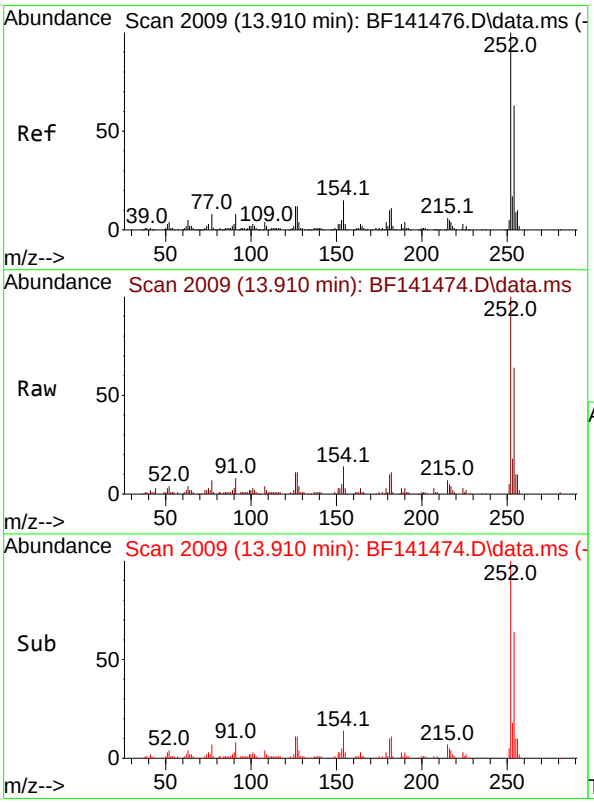
Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.3	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

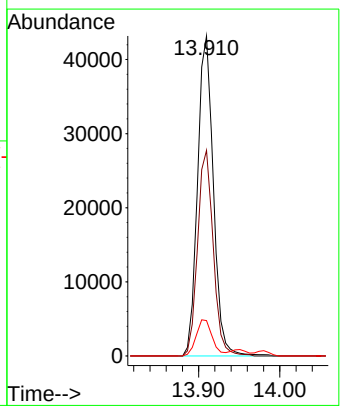
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

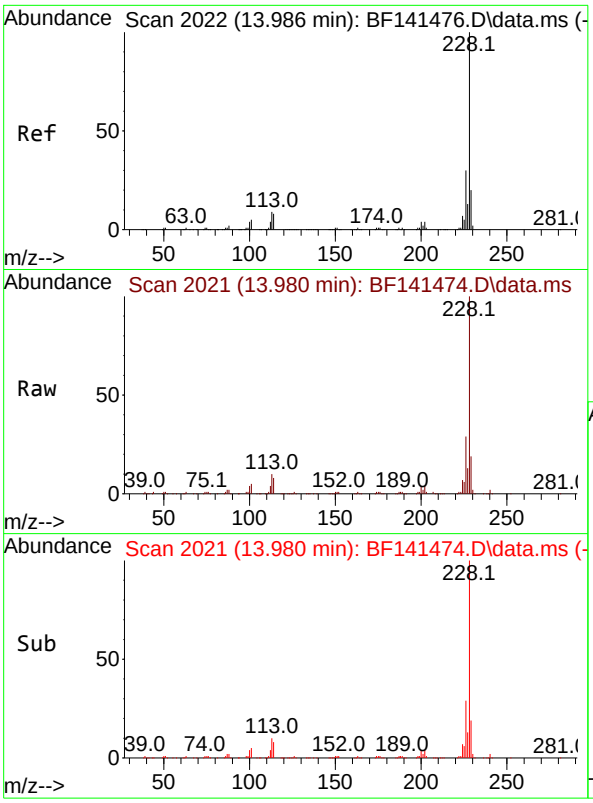


#82
3,3'-Dichlorobenzidine
Concen: 10.785 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:252 Resp: 58487

Ion	Ratio	Lower	Upper
252	100		
254	64.3	50.6	76.0
126	11.1	9.3	13.9

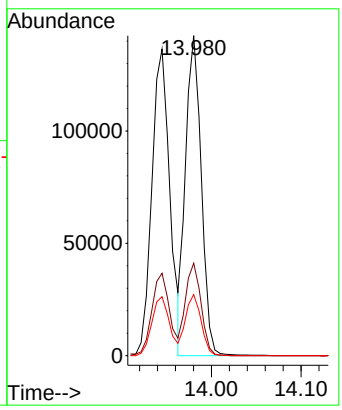




#83
Chrysene
Concen: 9.960 ng
RT: 13.980 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:228 Resp: 17410

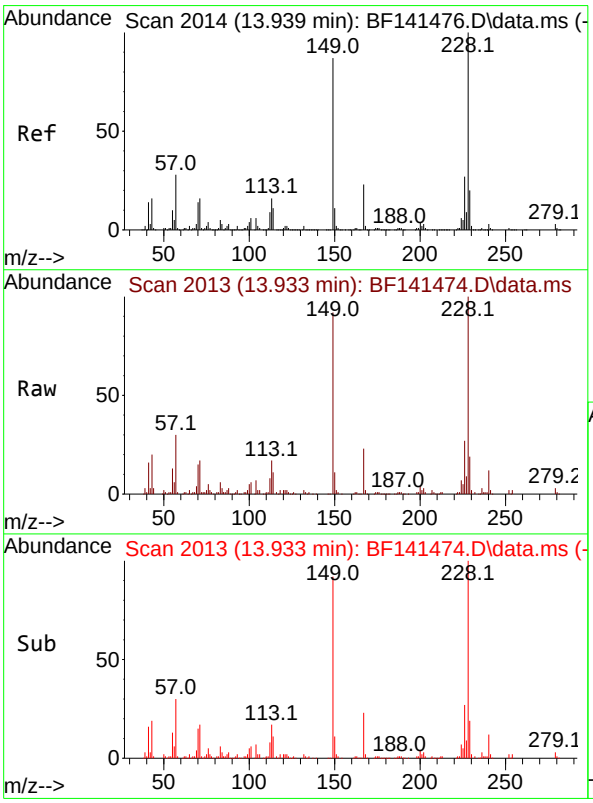
Ion	Ratio	Lower	Upper
228	100		
226	28.9	24.0	36.0
229	19.1	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

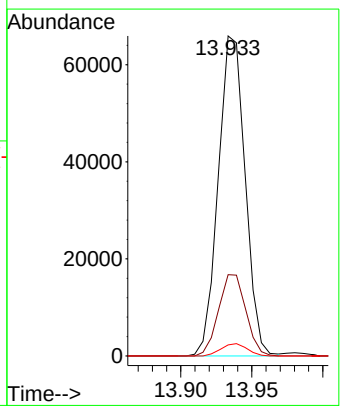
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

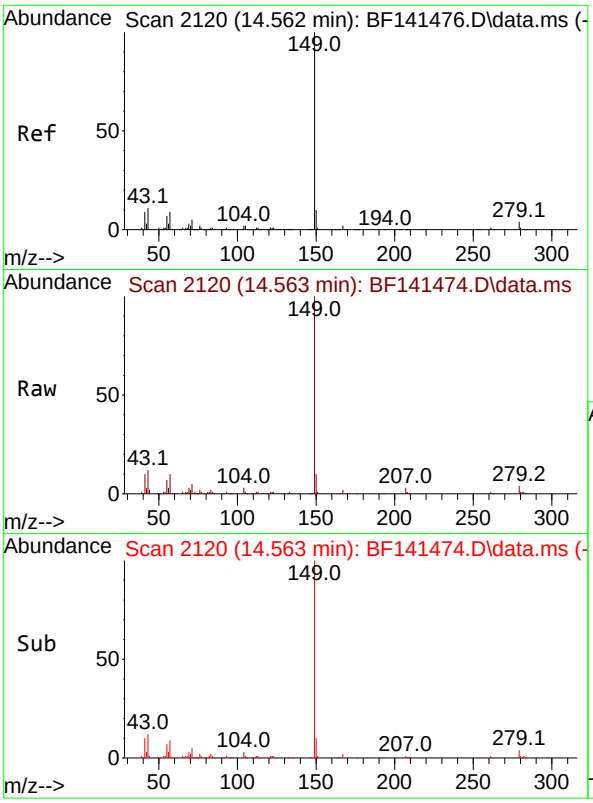


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.171 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 86853

Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.4	32.0
279	3.5	3.1	4.7

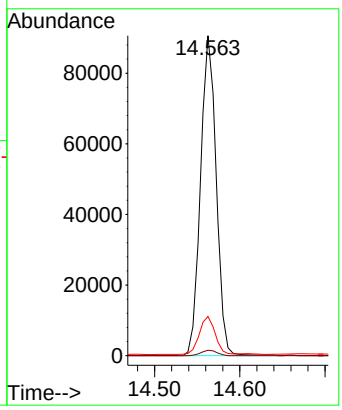




#85
Di-n-octyl phthalate
Concen: 8.576 ng
RT: 14.563 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 11587

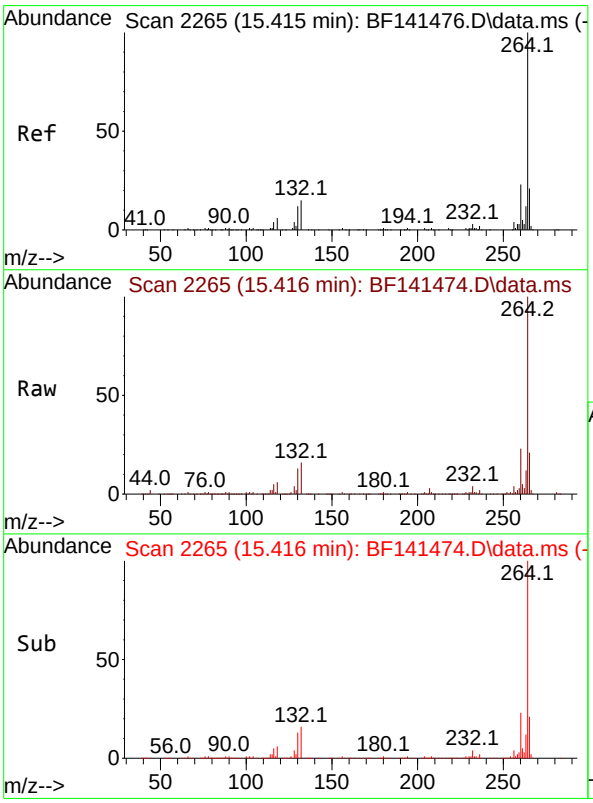
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	12.1	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

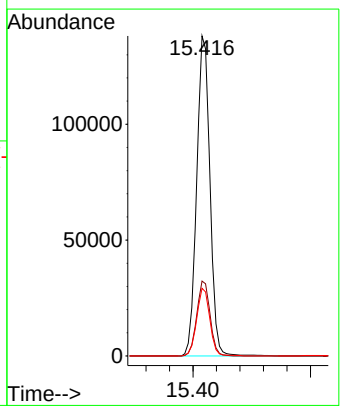
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

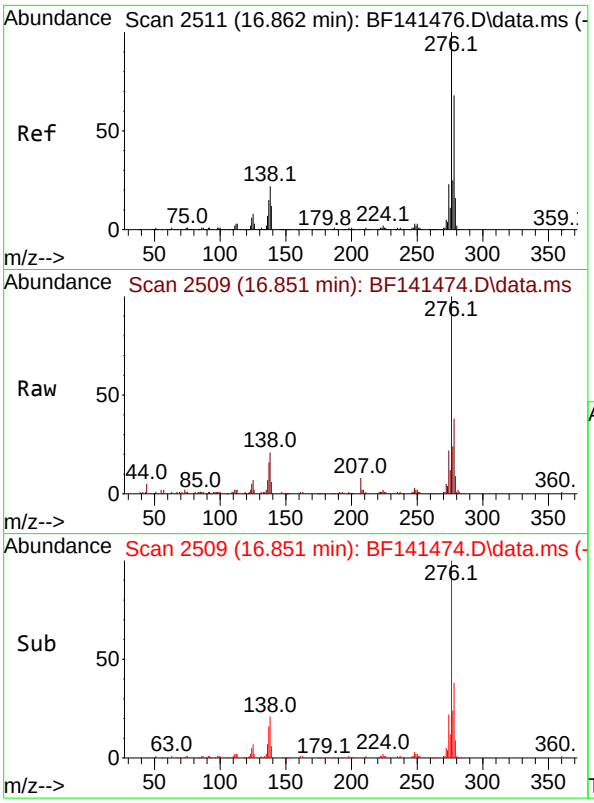


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.416 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:264 Resp: 215900

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	28.0
265	21.2	17.0	25.4

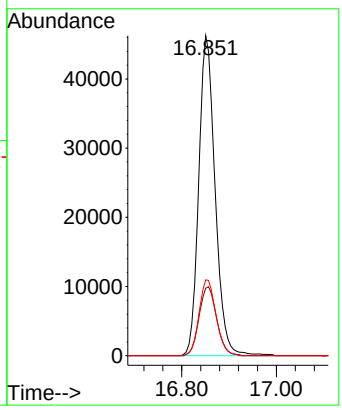




#87
Indeno(1,2,3-cd)pyrene
Concen: 8.327 ng
RT: 16.851 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:276 Resp: 11108

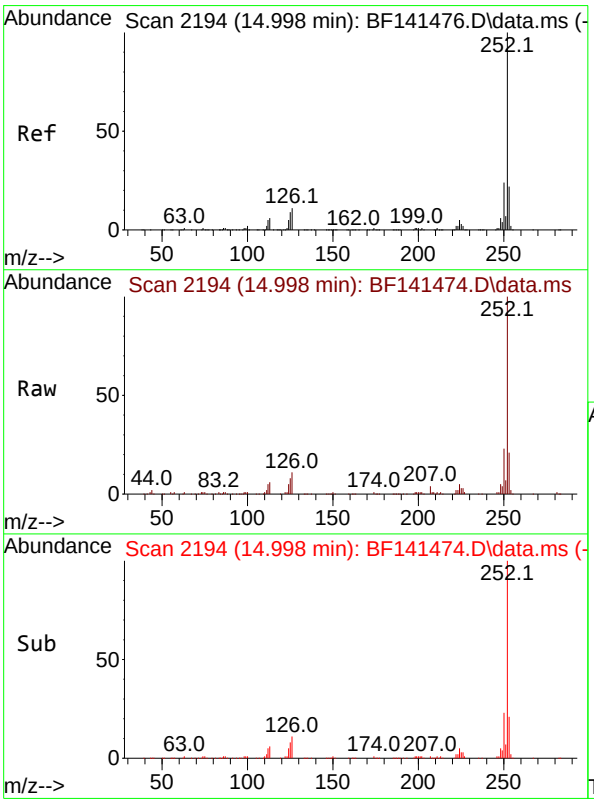
Ion	Ratio	Lower	Upper
276	100		
138	23.1	18.0	27.0
277	24.5	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

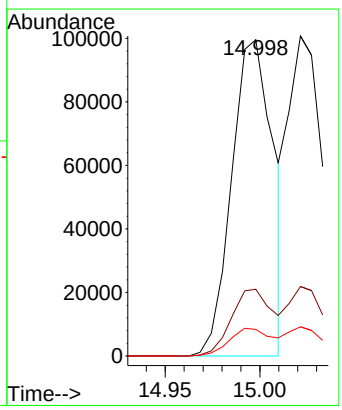
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

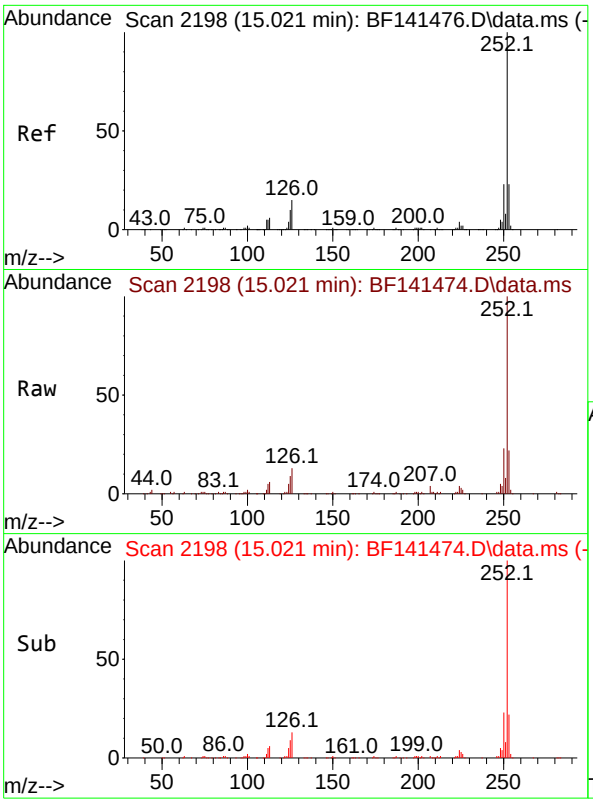


#88
Benzo(b)fluoranthene
Concen: 10.476 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:252 Resp: 151861

Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.5	26.3
125	8.4	7.0	10.6

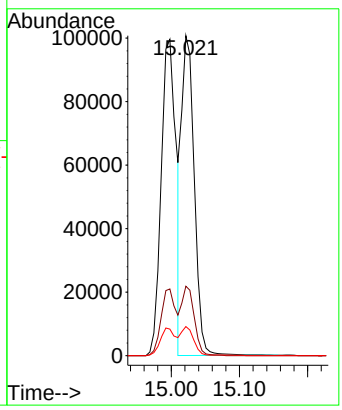




#89
Benzo(k)fluoranthene
Concen: 10.604 ng
RT: 15.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:252 Resp: 13126

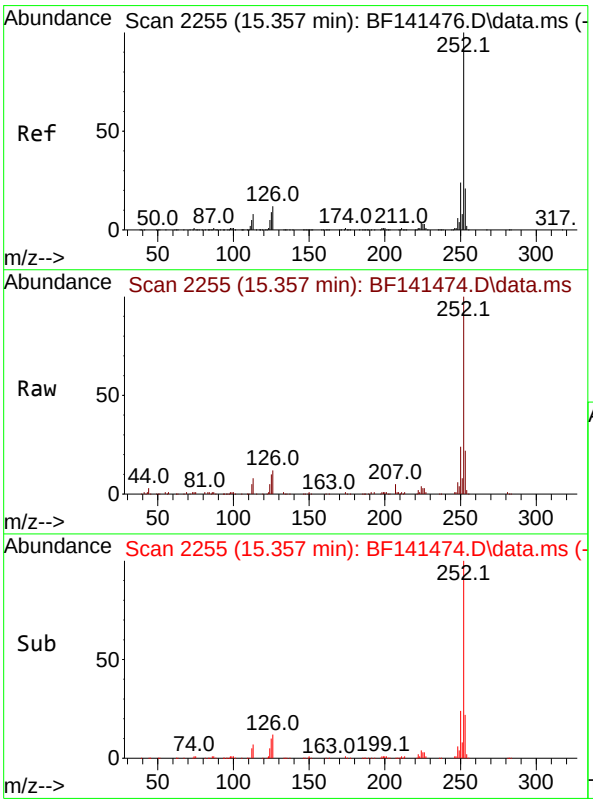
Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.0	27.0
125	9.1	7.4	11.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

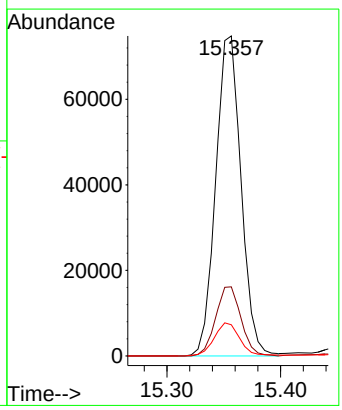
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

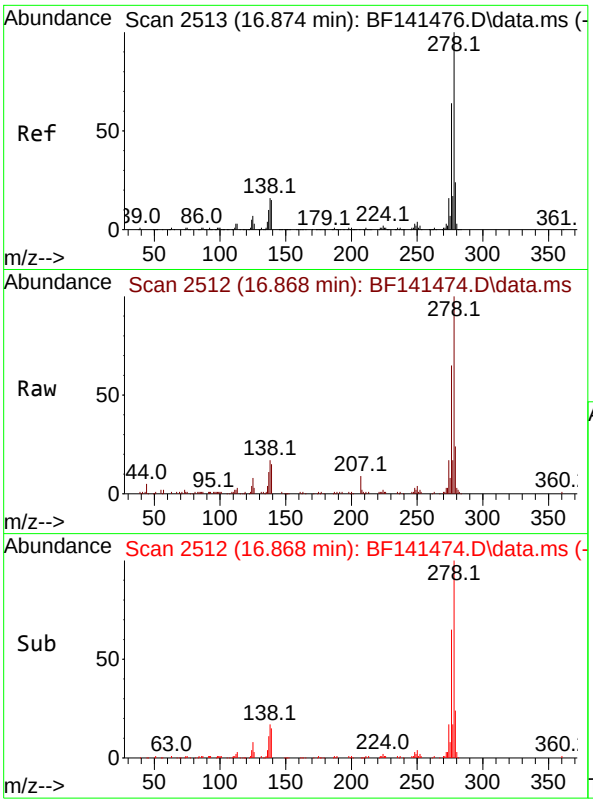


#90
Benzo(a)pyrene
Concen: 9.885 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:252 Resp: 115948

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7
125	9.8	7.4	11.2

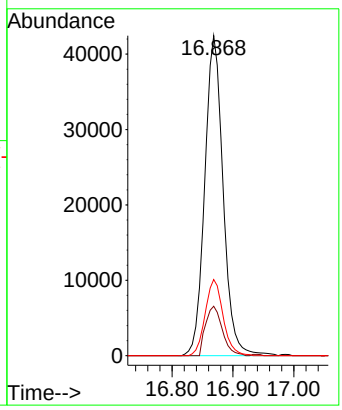




#91
Dibenzo(a,h)anthracene
Concen: 8.271 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:278 Resp: 8940

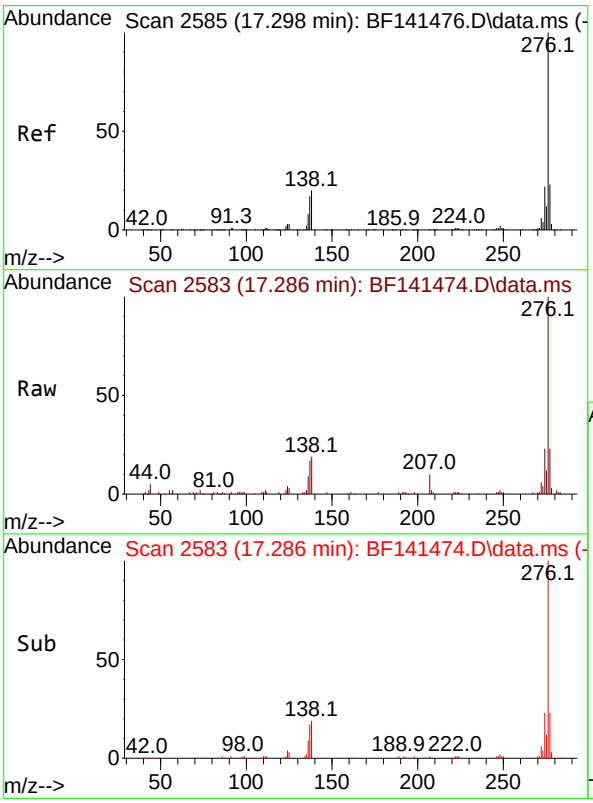
Ion	Ratio	Lower	Upper
278	100		
139	15.4	11.8	17.6
279	23.8	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

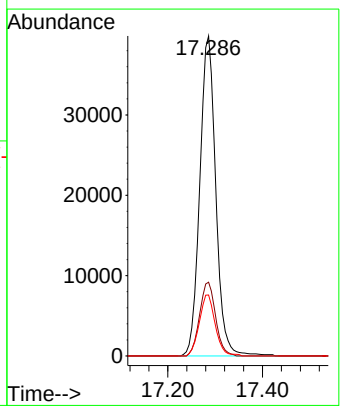
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#92
Benzo(g,h,i)perylene
Concen: 8.243 ng
RT: 17.286 min Scan# 2583
Delta R.T. -0.029 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:276 Resp: 93242

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.6	28.0
138	19.0	15.9	23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141475.D
Acq On : 06 Feb 2025 12:26
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

Quant Time: Feb 06 16:00:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	86149	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	348017	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	193091	20.000	ng	0.00
64) Phenanthrene-d10	11.310	188	333651	20.000	ng	0.00
76) Chrysene-d12	13.957	240	251741	20.000	ng	0.00
86) Perylene-d12	15.416	264	191435	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	235106	42.785	ng	0.00
7) Phenol-d6	6.422	99	293602	42.273	ng	-0.02
23) Nitrobenzene-d5	7.351	82	275773	41.331	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	80912	41.714	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	534841	42.674	ng	0.00
79) Terphenyl-d14	12.898	244	609819	40.894	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.481	88	45027	20.359	ng	98
3) Pyridine	3.211	79	112903	21.453	ng	96
4) n-Nitrosodimethylamine	3.152	42	70658	20.276	ng	98
6) Aniline	6.446	93	142156	21.820	ng	97
8) 2-Chlorophenol	6.575	128	124573	20.980	ng	98
9) Benzaldehyde	6.340	77	84531	22.903	ng	98
10) Phenol	6.440	94	156515	21.652	ng	96
11) bis(2-Chloroethyl)ether	6.522	93	111675	20.568	ng	98
12) 1,3-Dichlorobenzene	6.728	146	133906	21.362	ng	99
13) 1,4-Dichlorobenzene	6.804	146	135357	21.134	ng	99
14) 1,2-Dichlorobenzene	6.957	146	126931	21.354	ng	99
15) Benzyl Alcohol	6.928	79	113901	21.386	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.063	45	199281	21.441	ng	99
17) 2-Methylphenol	7.046	107	96607	20.792	ng	99
18) Hexachloroethane	7.298	117	50745	21.409	ng	99
19) n-Nitroso-di-n-propyla...	7.199	70	89512	21.546	ng	99
20) 3+4-Methylphenols	7.199	107	125707	21.287	ng	91
22) Acetophenone	7.199	105	181333	20.946	ng	100
24) Nitrobenzene	7.369	77	133285	20.485	ng	99
25) Isophorone	7.604	82	220291	20.706	ng	99
26) 2-Nitrophenol	7.687	139	66195	20.449	ng	98
27) 2,4-Dimethylphenol	7.728	122	76751	20.296	ng	97
28) bis(2-Chloroethoxy)met...	7.822	93	142151	20.852	ng	99
29) 2,4-Dichlorophenol	7.934	162	108456	21.227	ng	97
30) 1,2,4-Trichlorobenzene	8.010	180	115050	20.678	ng	100
31) Naphthalene	8.093	128	381547	21.062	ng	99
32) Benzoic acid	7.828	122	75462	19.212	ng	99
33) 4-Chloroaniline	8.146	127	132911	21.014	ng	98
34) Hexachlorobutadiene	8.210	225	69492	20.804	ng	98
35) Caprolactam	8.498	113	32746	21.050	ng	97
36) 4-Chloro-3-methylphenol	8.628	107	119021	21.029	ng	99
37) 2-Methylnaphthalene	8.781	142	250365	21.238	ng	98
38) 1-Methylnaphthalene	8.881	142	240408	21.056	ng	99
40) 1,2,4,5-Tetrachloroben...	8.945	216	115936	20.753	ng	99
41) Hexachlorocyclopentadiene	8.934	237	34729	18.691	ng	97
43) 2,4,6-Trichlorophenol	9.063	196	75161	20.817	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141475.D
Acq On : 06 Feb 2025 12:26
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

Quant Time: Feb 06 16:00:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	83112	21.240	ng	97
46) 1,1'-Biphenyl	9.245	154	315040	21.045	ng	99
47) 2-Chloronaphthalene	9.269	162	233789	21.119	ng	99
48) 2-Nitroaniline	9.369	65	75990	20.455	ng	99
49) Acenaphthylene	9.687	152	345829	21.004	ng	99
50) Dimethylphthalate	9.545	163	271920	20.744	ng	100
51) 2,6-Dinitrotoluene	9.610	165	60700	21.182	ng	98
52) Acenaphthene	9.857	154	229442m	20.728	ng	
53) 3-Nitroaniline	9.781	138	64626	20.954	ng	96
54) 2,4-Dinitrophenol	9.887	184	32186	18.898	ng	98
55) Dibenzofuran	10.028	168	342620	21.087	ng	100
56) 4-Nitrophenol	9.951	139	47721	20.843	ng	96
57) 2,4-Dinitrotoluene	10.016	165	79865	20.936	ng	95
58) Fluorene	10.375	166	265810	21.159	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	69328	20.579	ng	100
60) Diethylphthalate	10.245	149	270018	20.936	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	127216	21.049	ng	97
62) 4-Nitroaniline	10.387	138	64262	20.519	ng	98
63) Azobenzene	10.528	77	267372	20.853	ng	98
65) 4,6-Dinitro-2-methylph...	10.422	198	46877	20.226	ng	99
66) n-Nitrosodiphenylamine	10.487	169	224776	21.045	ng	99
67) 4-Bromophenyl-phenylether	10.857	248	78167	20.962	ng	97
68) Hexachlorobenzene	10.922	284	80301	20.913	ng	97
69) Atrazine	11.010	200	71359	22.271	ng	97
70) Pentachlorophenol	11.122	266	50539	20.584	ng	98
71) Phenanthrene	11.339	178	387256	21.085	ng	99
72) Anthracene	11.386	178	386414	20.930	ng	100
73) Carbazole	11.545	167	358987	21.610	ng	99
74) Di-n-butylphthalate	11.875	149	408041	21.273	ng	100
75) Fluoranthene	12.528	202	414712	21.298	ng	99
77) Benzidine	12.651	184	84013	15.132	ng	98
78) Pyrene	12.757	202	432216	20.169	ng	99
80) Butylbenzylphthalate	13.375	149	152184	20.502	ng	99
81) Benzo(a)anthracene	13.945	228	339877	20.310	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	102367	21.355	ng	98
83) Chrysene	13.980	228	330823	21.411	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	172352	20.588	ng	99
85) Di-n-octyl phthalate	14.563	149	229060	19.180	ng	99
87) Indeno(1,2,3-cd)pyrene	16.857	276	227105	19.200	ng	99
88) Benzo(b)fluoranthene	14.998	252	267695	20.826	ng	100
89) Benzo(k)fluoranthene	15.022	252	238695	21.747	ng	97
90) Benzo(a)pyrene	15.357	252	213510	20.528	ng	100
91) Dibenzo(a,h)anthracene	16.868	278	185740	19.379	ng	98
92) Benzo(g,h,i)perylene	17.286	276	191595	19.103	ng	99

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

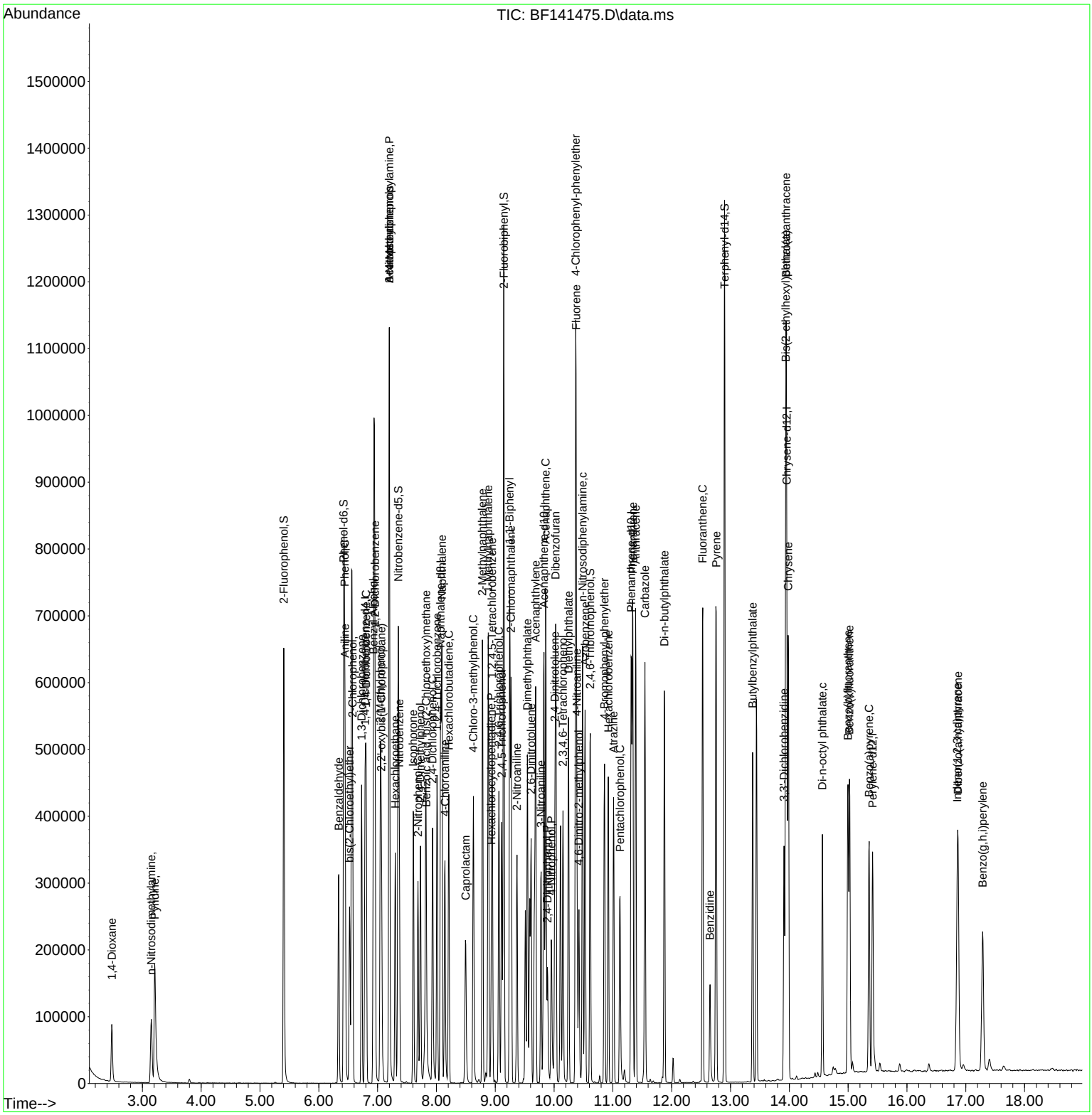
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141475.D
Acq On : 06 Feb 2025 12:26
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

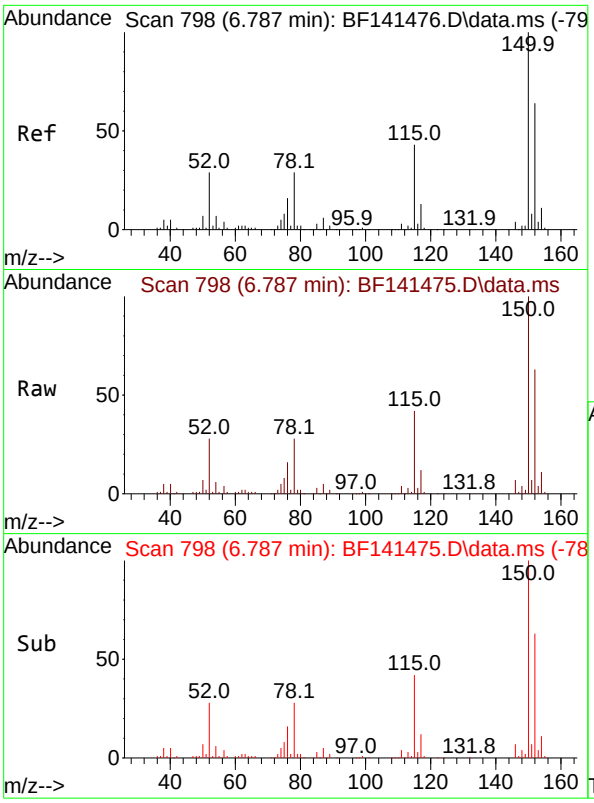
Quant Time: Feb 06 16:00:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

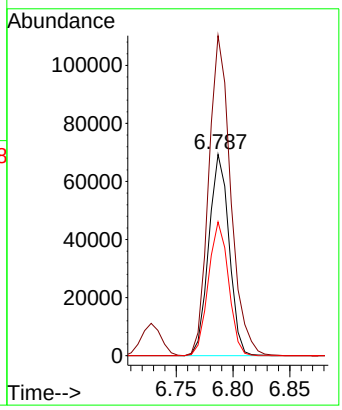




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:152 Resp: 8614

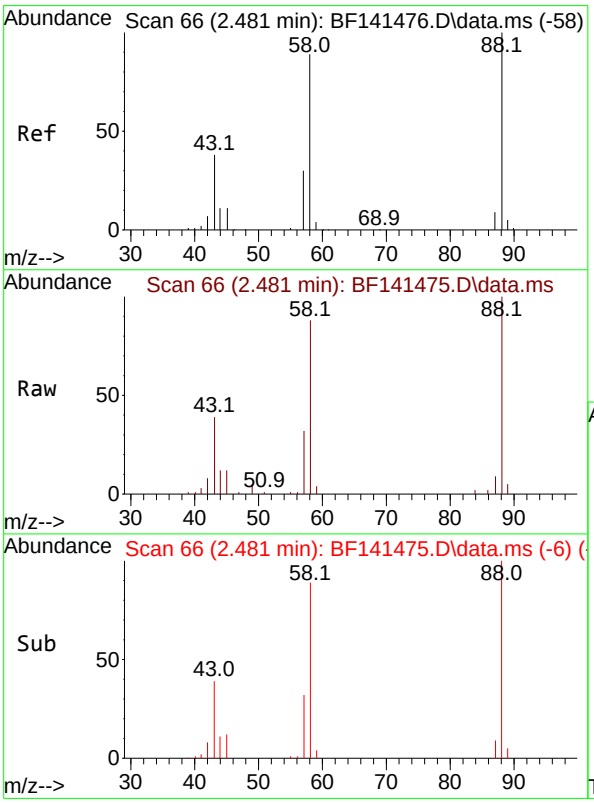
Ion	Ratio	Lower	Upper
152	100		
150	159.0	125.0	187.4
115	66.4	53.6	80.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

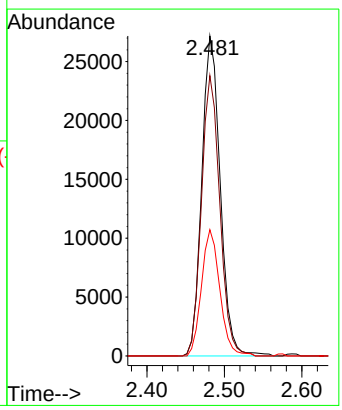
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

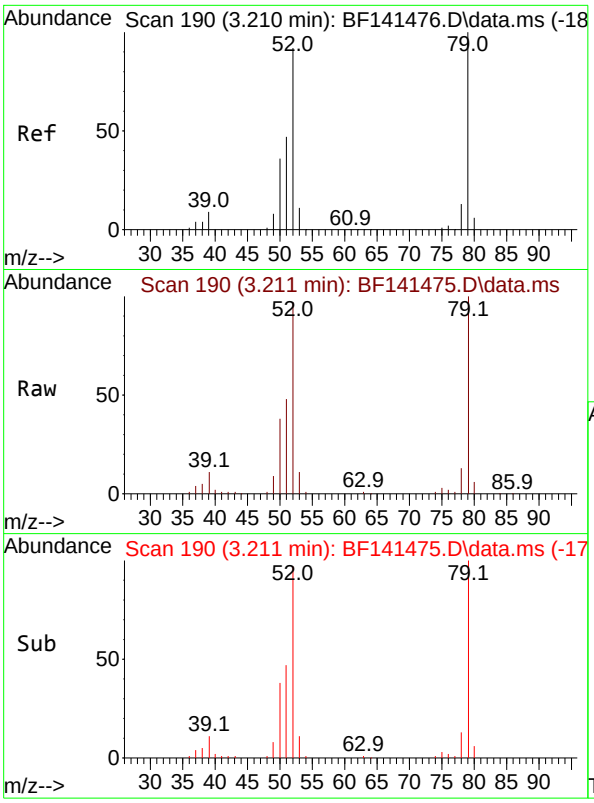


#2
1,4-Dioxane
Concen: 20.359 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 88 Resp: 45027

Ion	Ratio	Lower	Upper
88	100		
58	87.1	71.1	106.7
43	39.2	30.6	46.0

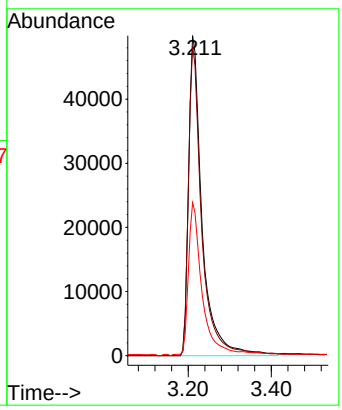




#3
Pyridine
Concen: 21.453 ng
RT: 3.211 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 79 Resp: 11290

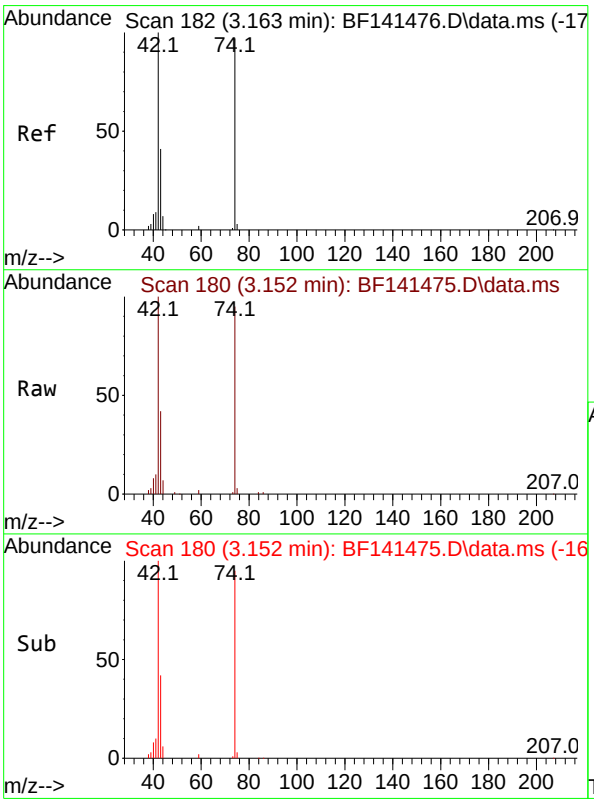
Ion	Ratio	Lower	Upper
79	100		
52	96.9	73.7	110.5
51	47.8	37.5	56.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

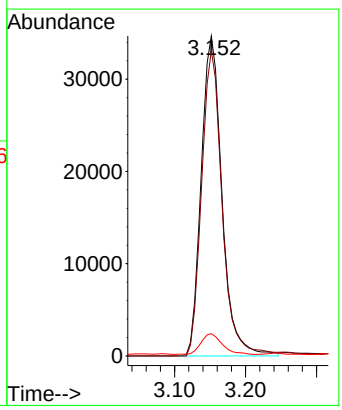
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

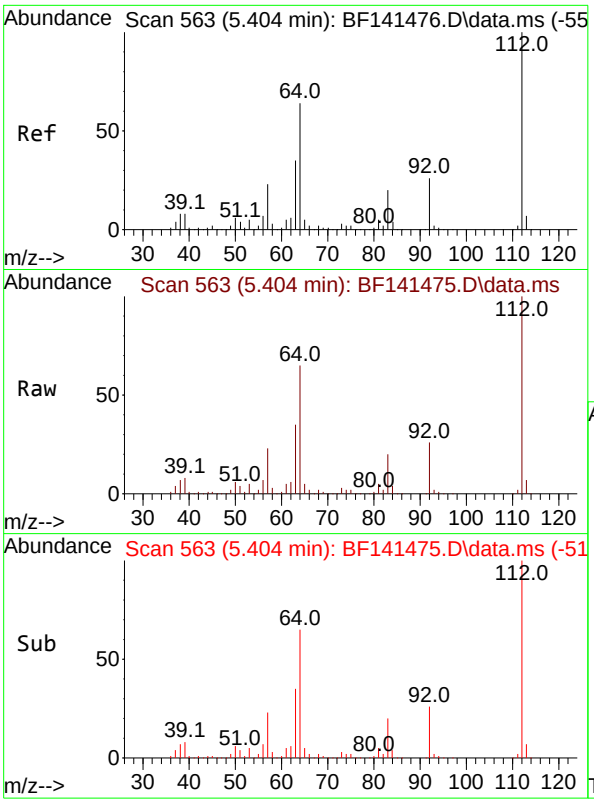


#4
n-Nitrosodimethylamine
Concen: 20.276 ng
RT: 3.152 min Scan# 180
Delta R.T. -0.035 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 42 Resp: 70658

Ion	Ratio	Lower	Upper
42	100		
74	95.4	78.0	117.0
44	7.0	5.4	8.2

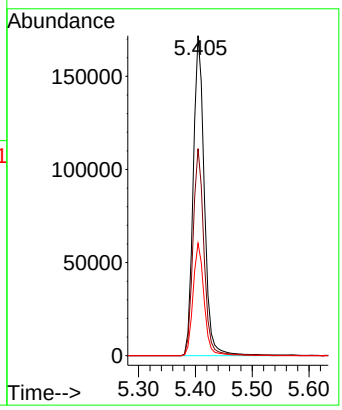




#5
2-Fluorophenol
Concen: 42.785 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:112 Resp: 23510

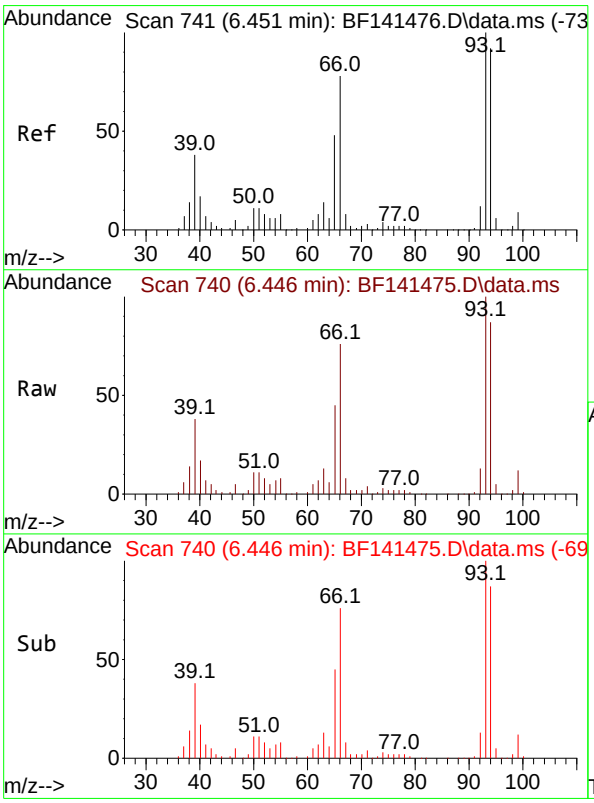
Ion	Ratio	Lower	Upper
112	100		
64	64.7	51.1	76.7
63	35.1	28.4	42.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

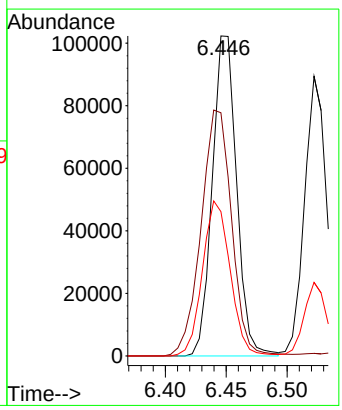
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

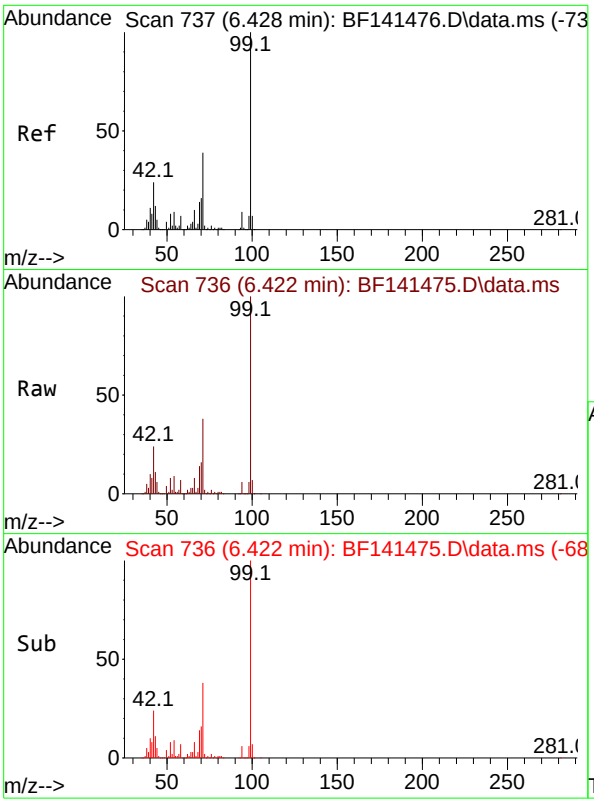


#6
Aniline
Concen: 21.820 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 93 Resp: 142156

Ion	Ratio	Lower	Upper
93	100		
66	76.0	62.6	94.0
65	45.1	38.3	57.5

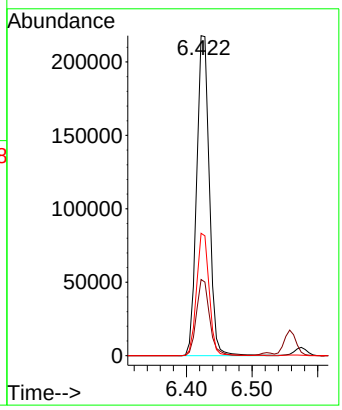




#7
Phenol-d6
Concen: 42.273 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 99 Resp: 29360

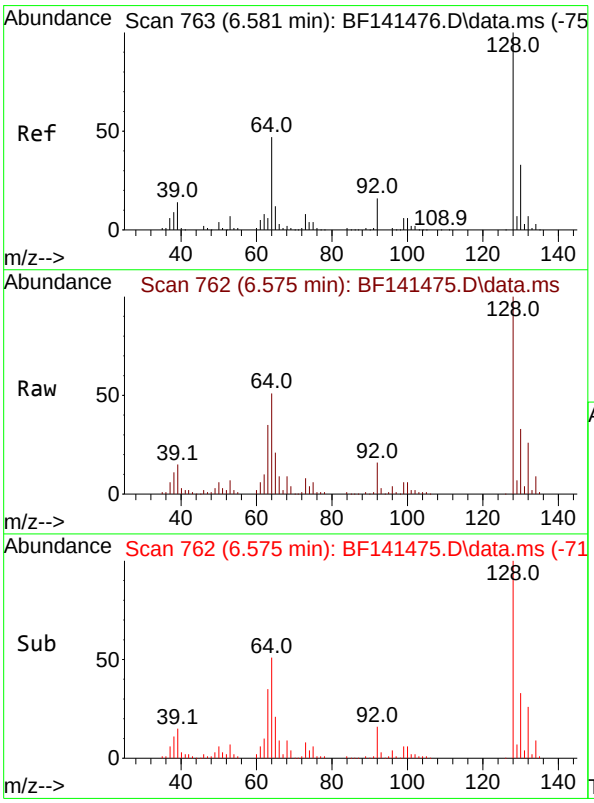
Ion	Ratio	Lower	Upper
99	100		
42	23.8	19.1	28.7
71	38.2	31.1	46.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

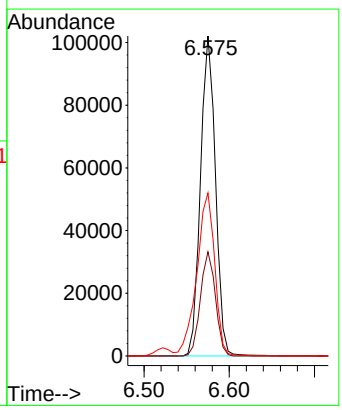
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

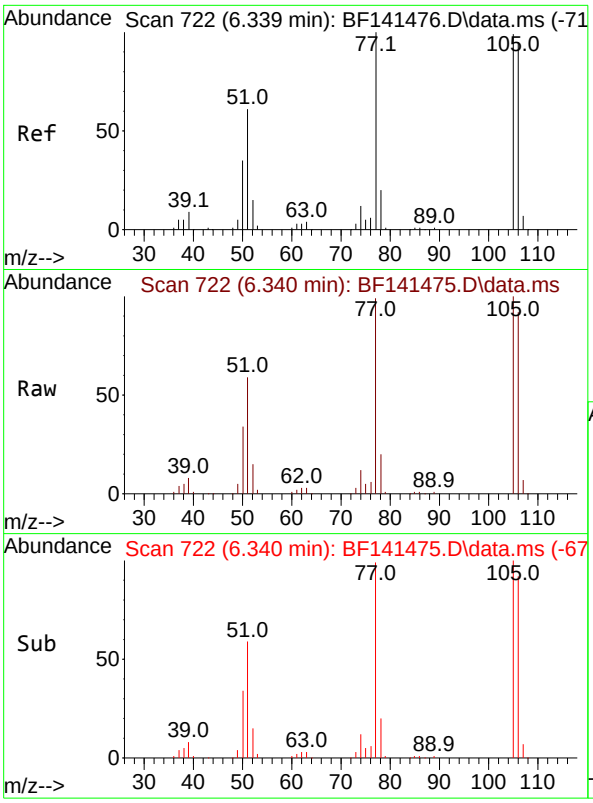


#8
2-Chlorophenol
Concen: 20.980 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:128 Resp: 124573

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.7	52.7
64	50.9	28.3	68.3

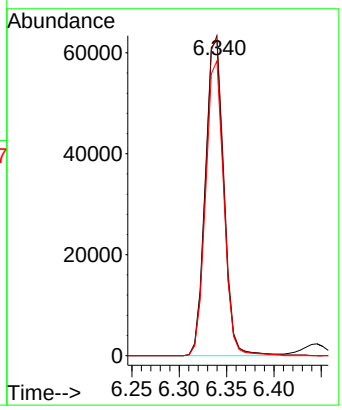




#9
Benzaldehyde
Concen: 22.903 ng
RT: 6.340 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 77 Resp: 8453

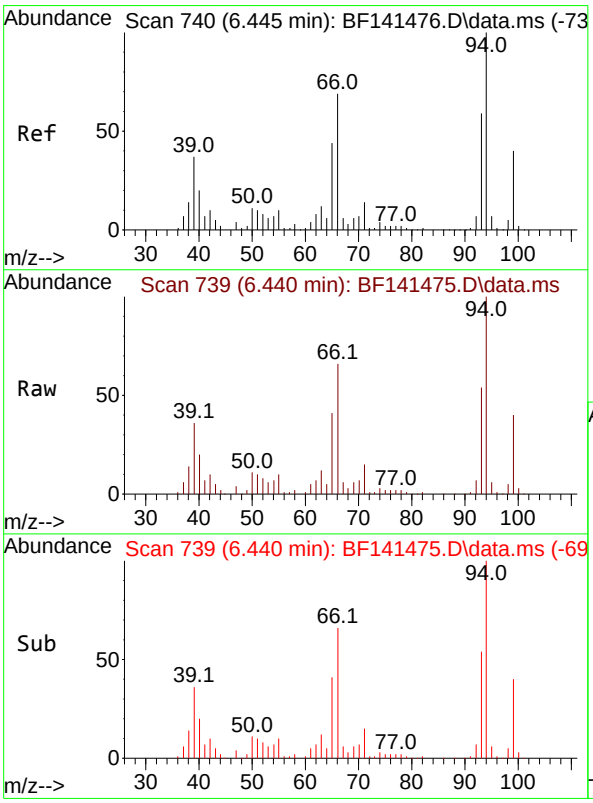
Ion	Ratio	Lower	Upper
77	100		
105	101.4	79.4	119.4
106	93.4	75.1	115.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

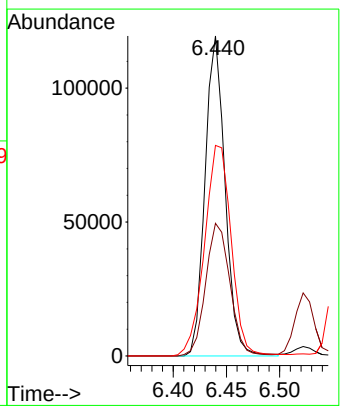
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

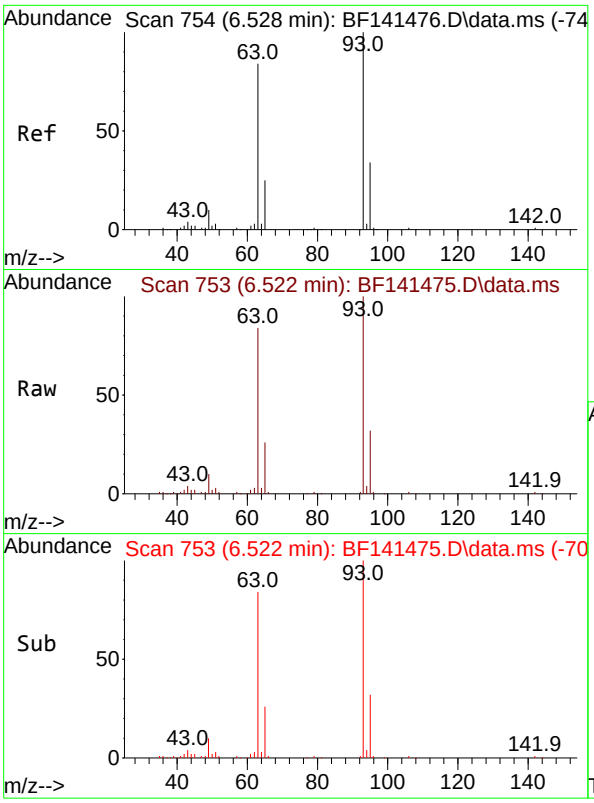


#10
Phenol
Concen: 21.652 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 94 Resp: 156515

Ion	Ratio	Lower	Upper
94	100		
65	41.5	23.7	63.7
66	65.8	49.3	89.3

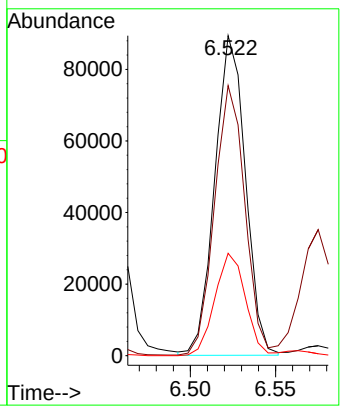




#11
bis(2-Chloroethyl)ether
Concen: 20.568 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 93 Resp: 11167

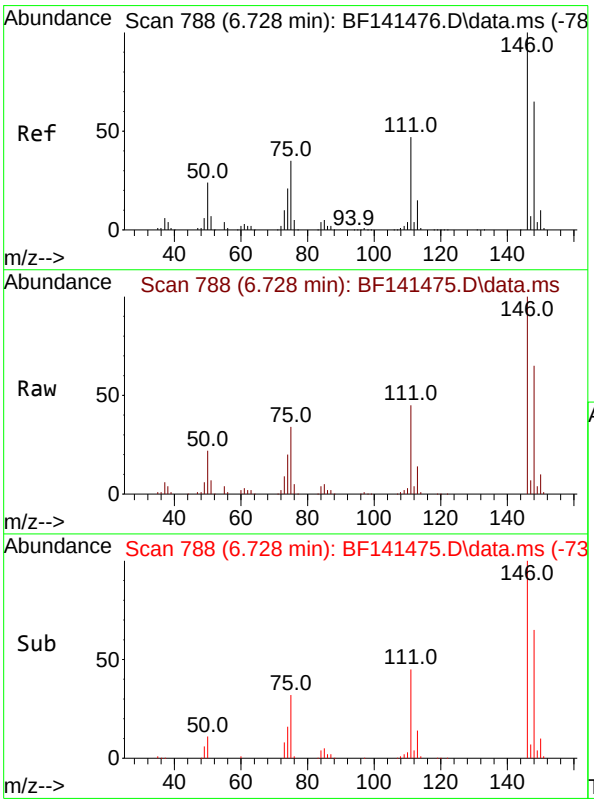
Ion	Ratio	Lower	Upper
93	100		
63	84.4	62.0	102.0
95	32.0	12.6	52.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

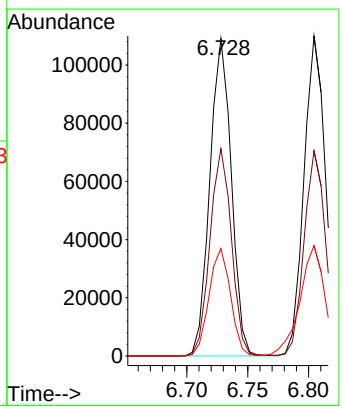
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

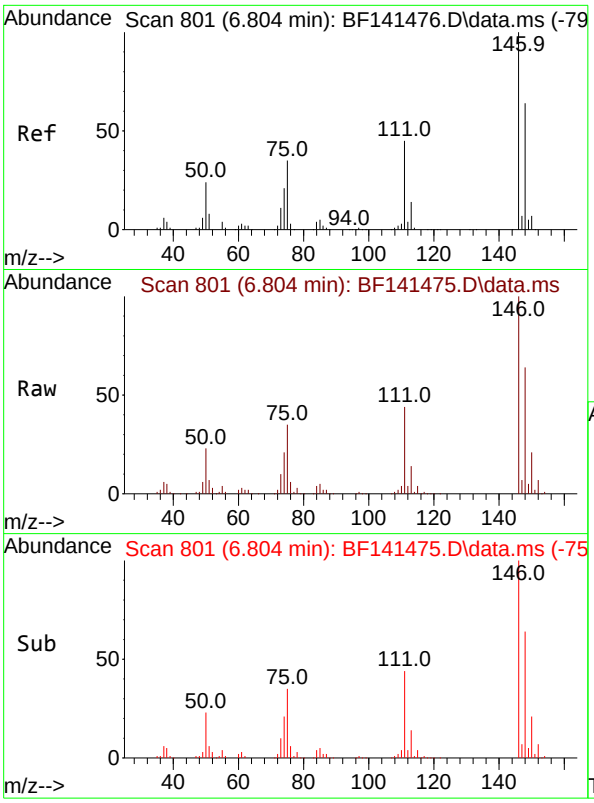


#12
1,3-Dichlorobenzene
Concen: 21.362 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:146 Resp: 133906

Ion	Ratio	Lower	Upper
146	100		
148	65.3	51.9	77.9
75	33.8	28.2	42.2

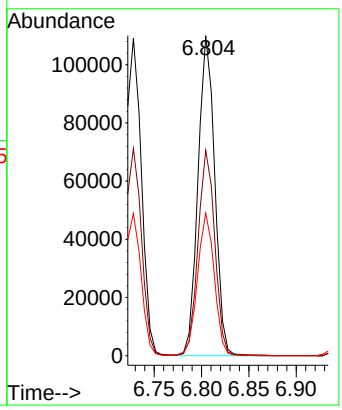




#13
1,4-Dichlorobenzene
Concen: 21.134 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:146 Resp: 13535

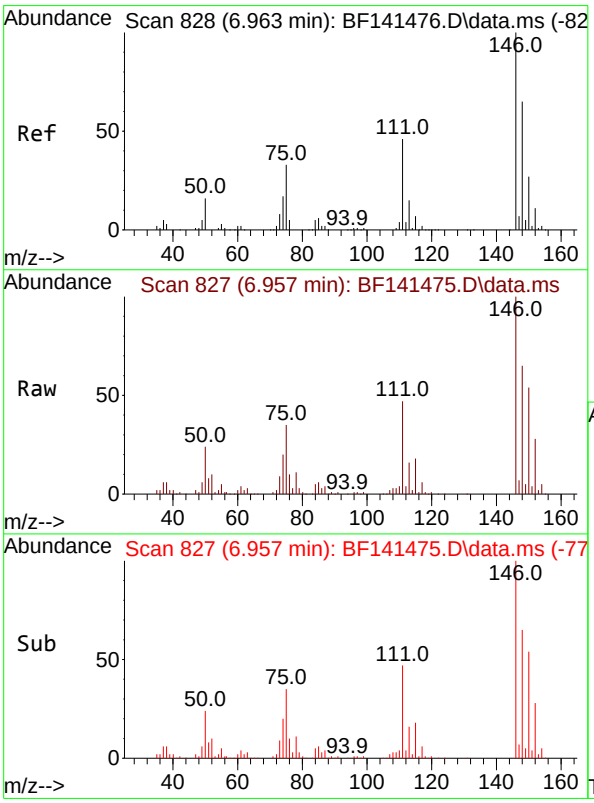
Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.9	76.3
111	44.5	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

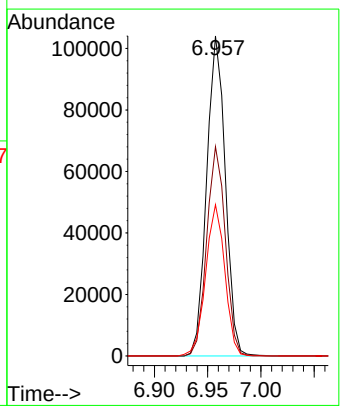
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

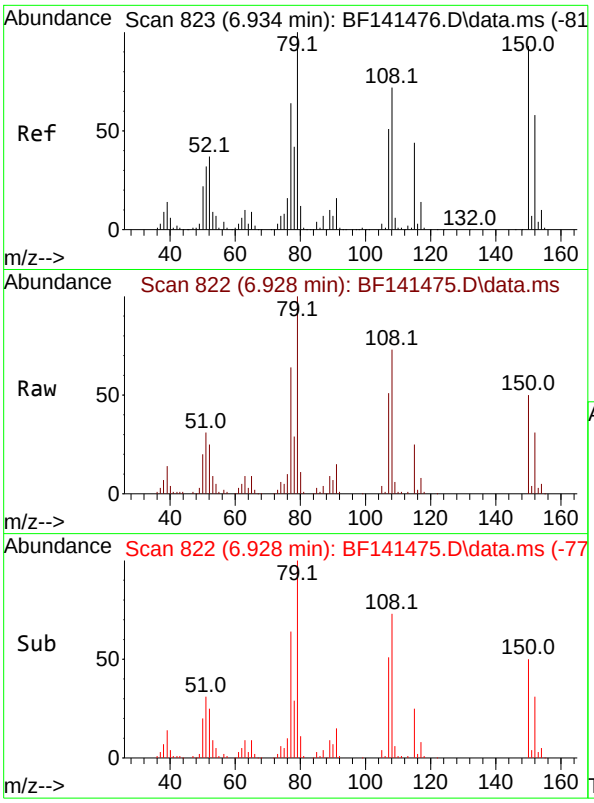


#14
1,2-Dichlorobenzene
Concen: 21.354 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:146 Resp: 126931

Ion	Ratio	Lower	Upper
146	100		
148	65.4	51.8	77.6
111	47.3	37.0	55.4

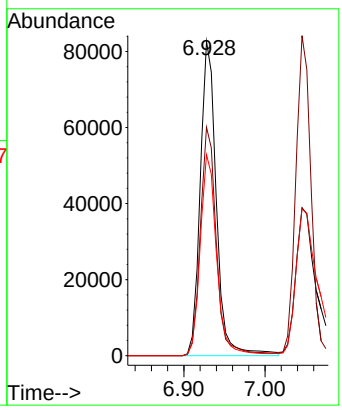




#15
Benzyl Alcohol
Concen: 21.386 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 79 Resp: 11390

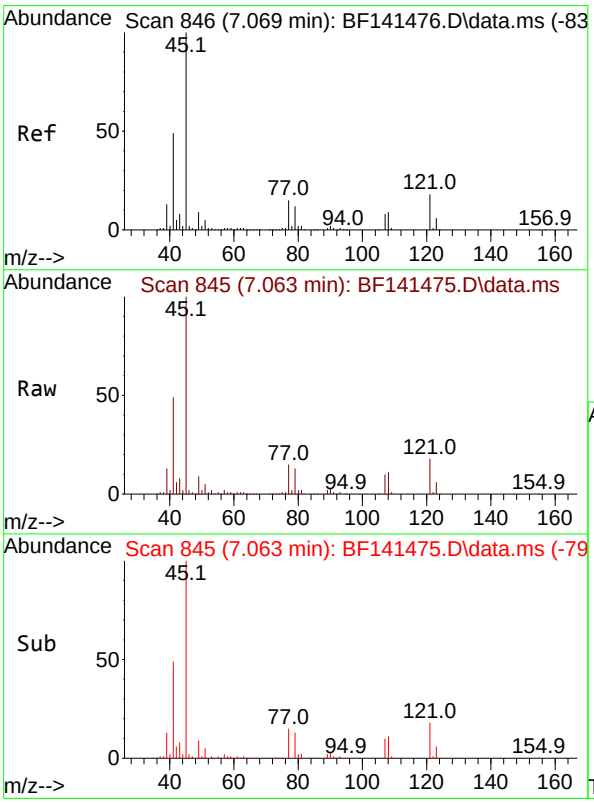
Ion	Ratio	Lower	Upper
79	100		
108	72.6	57.4	86.2
77	63.9	50.9	76.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

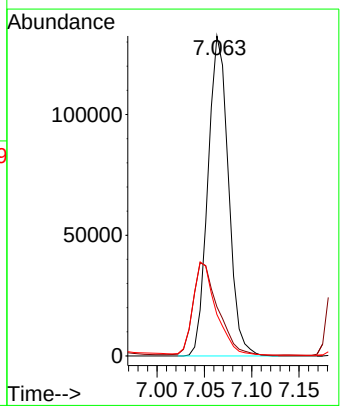
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

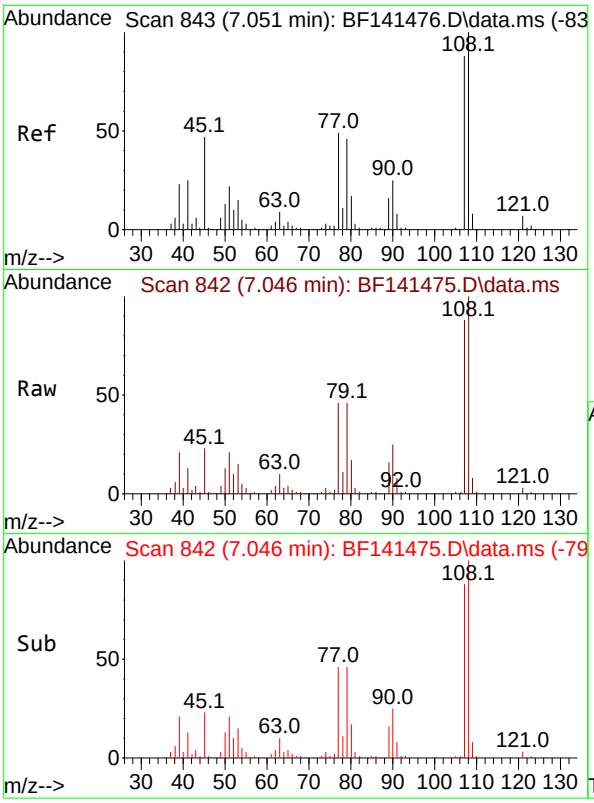


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.441 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 45 Resp: 199281

Ion	Ratio	Lower	Upper
45	100		
77	15.3	0.0	35.8
79	12.9	0.0	32.7

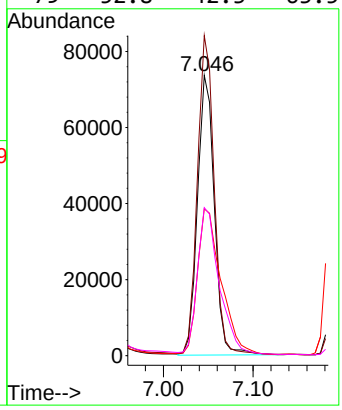




#17
2-Methylphenol
Concen: 20.792 ng
RT: 7.046 min Scan# 84
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:107 Resp: 9660

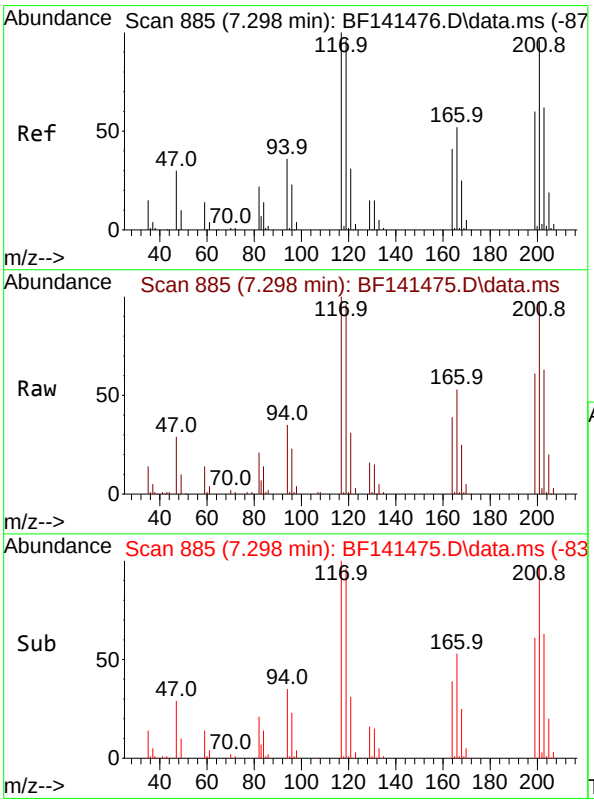
Ion	Ratio	Lower	Upper
107	100		
108	114.2	90.6	136.0
77	52.4	44.4	66.6
79	52.8	42.3	63.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

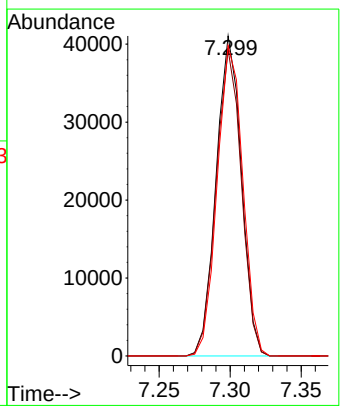
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

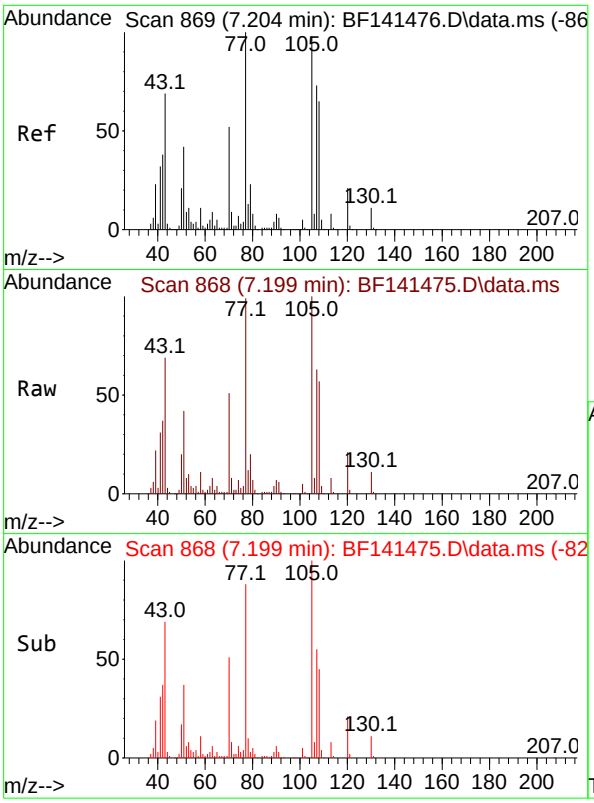


#18
Hexachloroethane
Concen: 21.409 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:117 Resp: 50745

Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.5	114.7
201	97.0	76.7	115.1

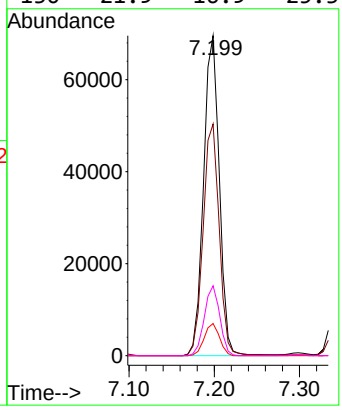




#19
n-Nitroso-di-n-propylamine
Concen: 21.546 ng
RT: 7.199 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 70 Resp: 8951

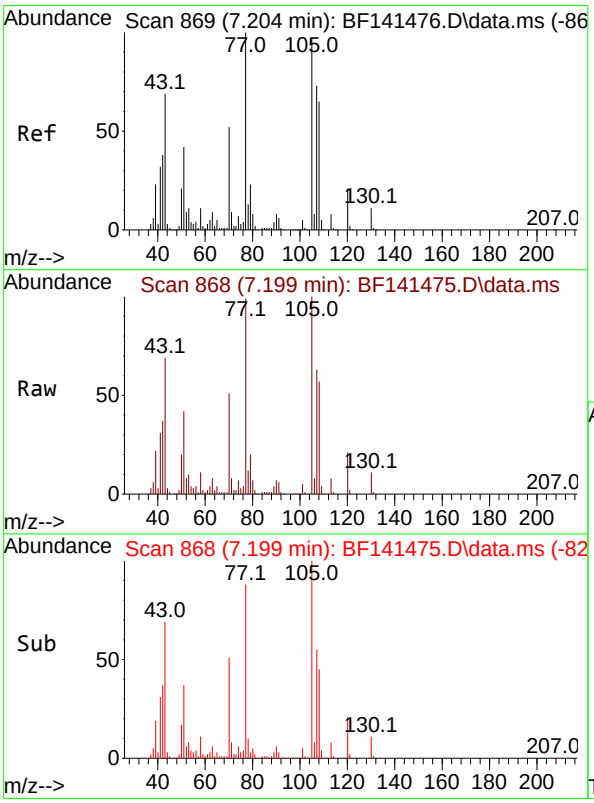
Ion	Ratio	Lower	Upper
70	100		
42	72.4	57.4	86.2
101	10.0	8.0	12.0
130	21.9	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

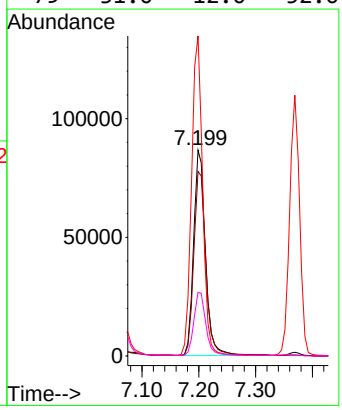
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

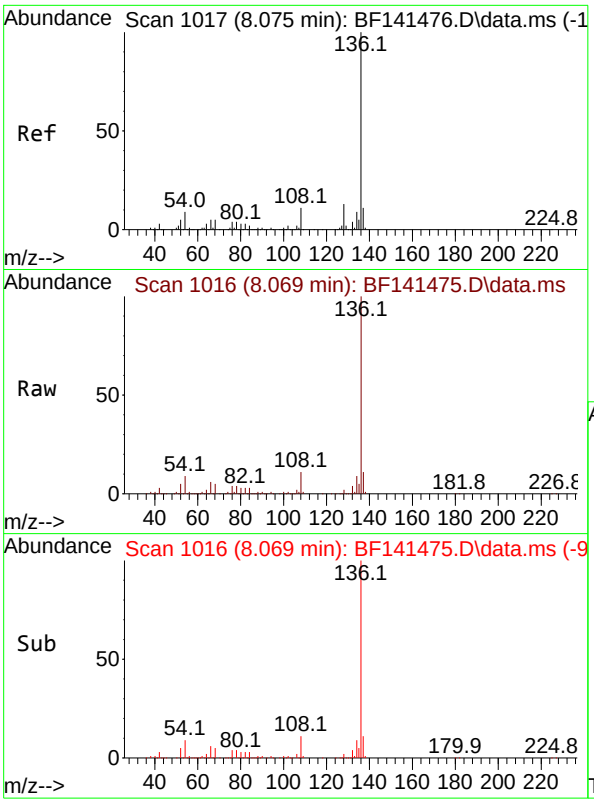


#20
3+4-Methylphenols
Concen: 21.287 ng
RT: 7.199 min Scan# 868
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:107 Resp: 125707

Ion	Ratio	Lower	Upper
107	100		
108	89.7	68.5	108.5
77	155.6	116.5	156.5
79	31.0	12.0	52.0

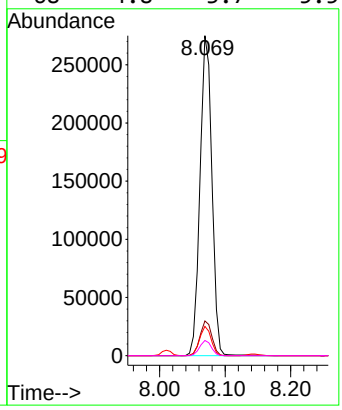




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:136 Resp: 34801

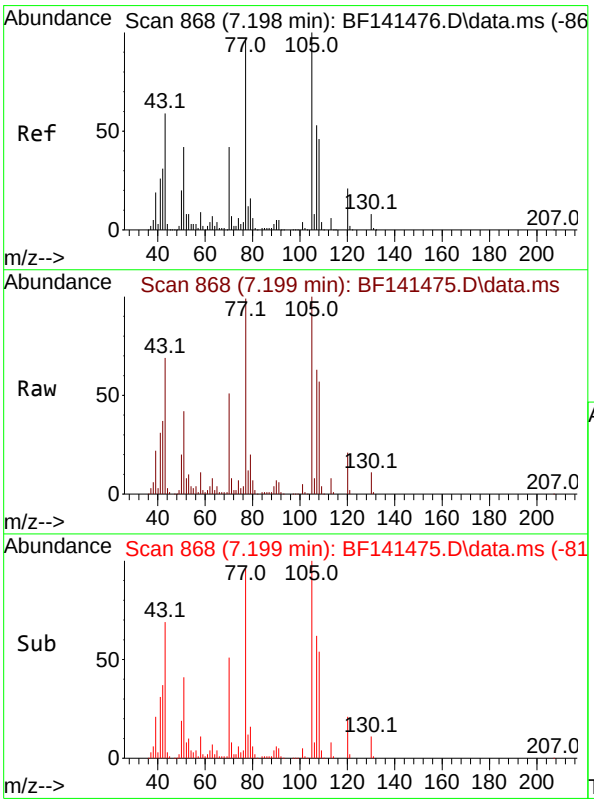
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.2	7.2	10.8
68	4.8	3.7	5.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

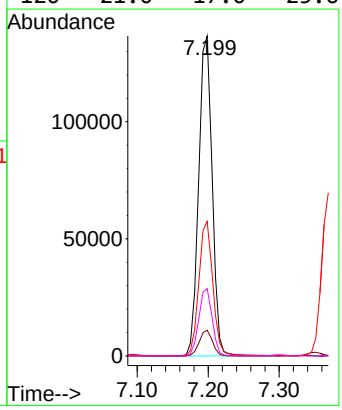
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

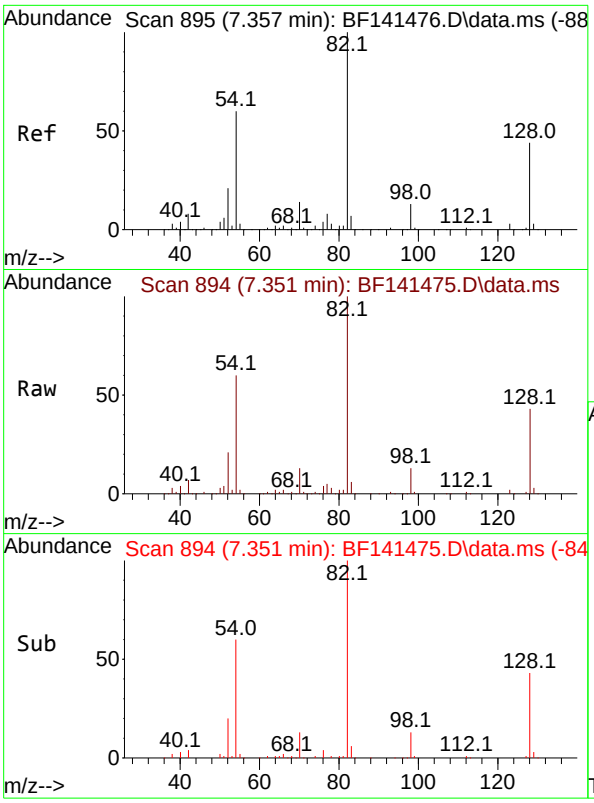


#22
Acetophenone
Concen: 20.946 ng
RT: 7.199 min Scan# 868
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:105 Resp: 181333

Ion	Ratio	Lower	Upper
105	100		
71	8.0	5.7	8.5
51	42.0	33.7	50.5
120	21.0	17.0	25.6

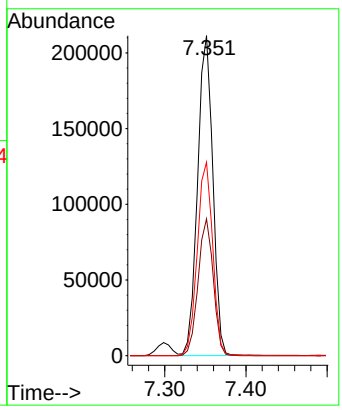




#23
Nitrobenzene-d5
Concen: 41.331 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 82 Resp: 27577

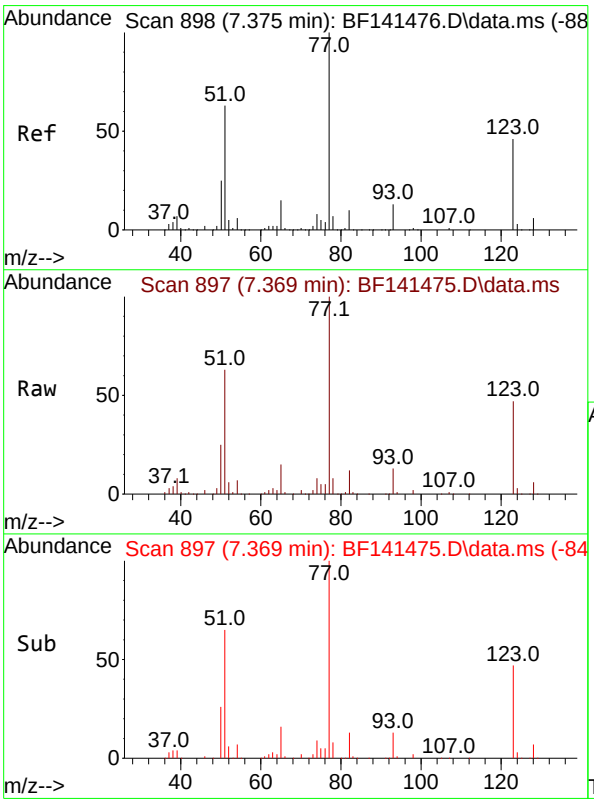
Ion	Ratio	Lower	Upper
82	100		
128	42.7	34.8	52.2
54	60.5	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

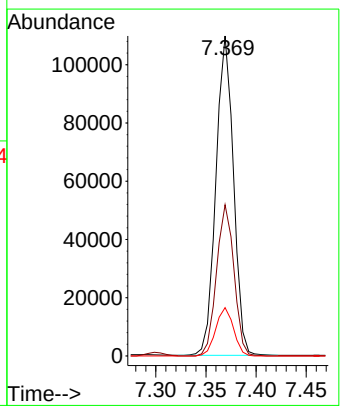
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

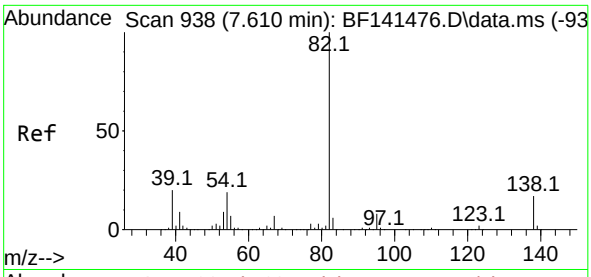


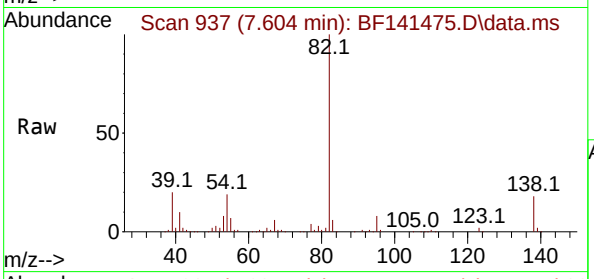
#24
Nitrobenzene
Concen: 20.485 ng
RT: 7.369 min Scan# 897
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

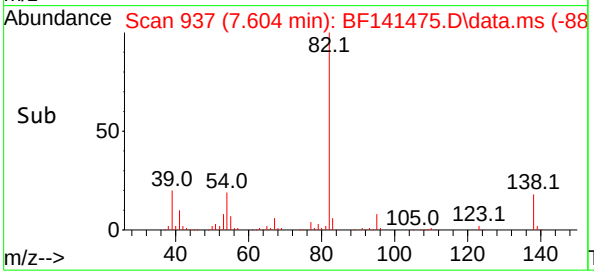
Tgt Ion: 77 Resp: 133285

Ion	Ratio	Lower	Upper
77	100		
123	47.3	36.9	55.3
65	15.1	11.9	17.9





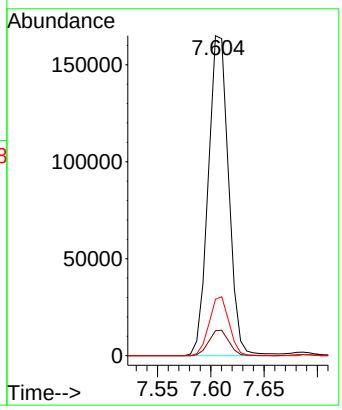




#25
Isophorone
Concen: 20.706 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 82 Resp: 22029

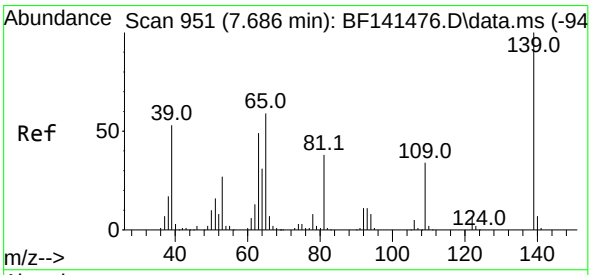
Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	17.6	13.9	20.9

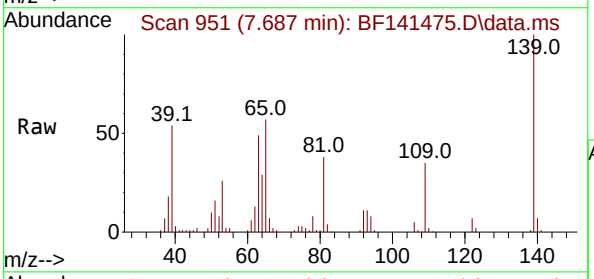


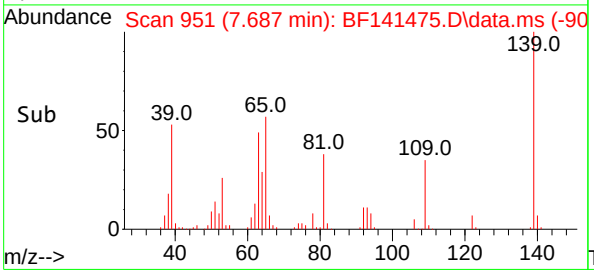
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



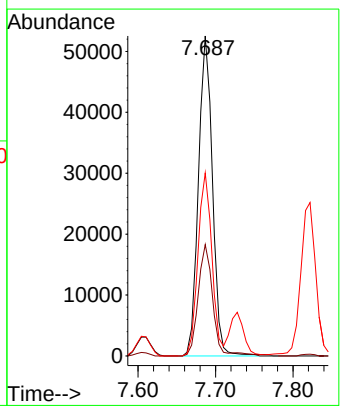


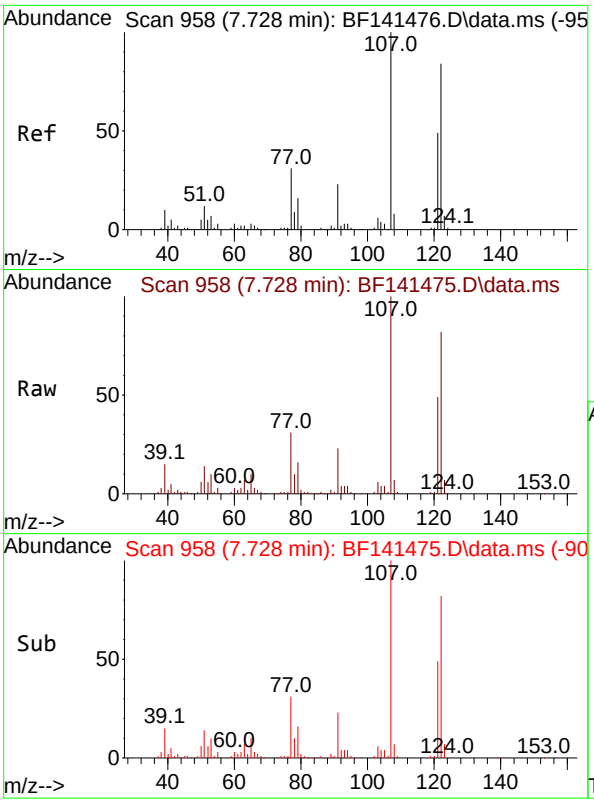


#26
2-Nitrophenol
Concen: 20.449 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:139 Resp: 66195

Ion	Ratio	Lower	Upper
139	100		
109	34.8	27.0	40.6
65	57.2	47.1	70.7

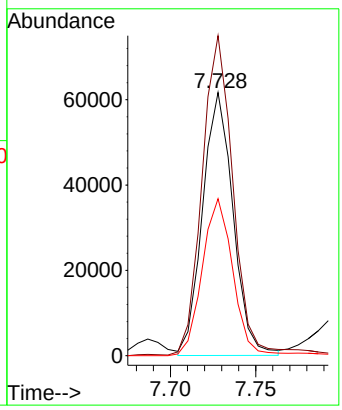




#27
2,4-Dimethylphenol
Concen: 20.296 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:122 Resp: 7675

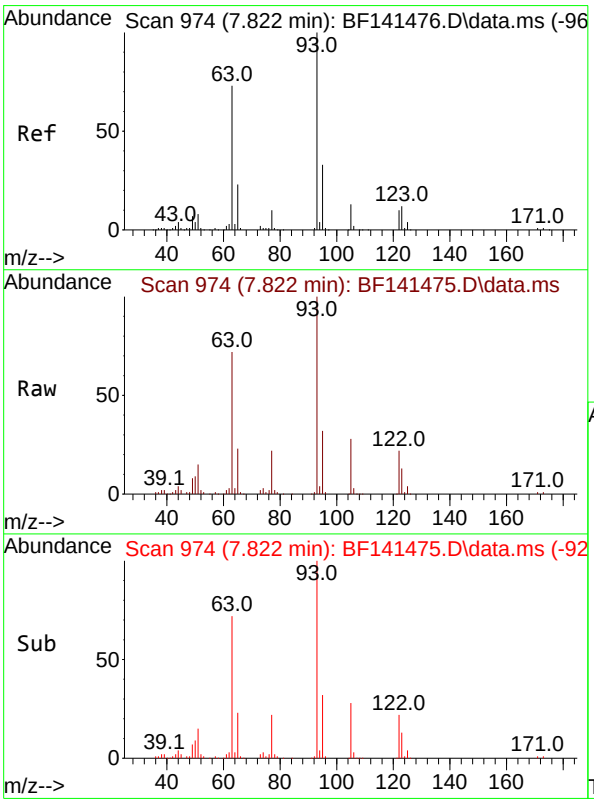
Ion	Ratio	Lower	Upper
122	100		
107	121.6	94.3	141.5
121	59.6	46.0	69.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

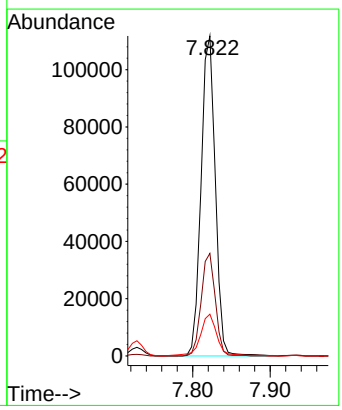
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

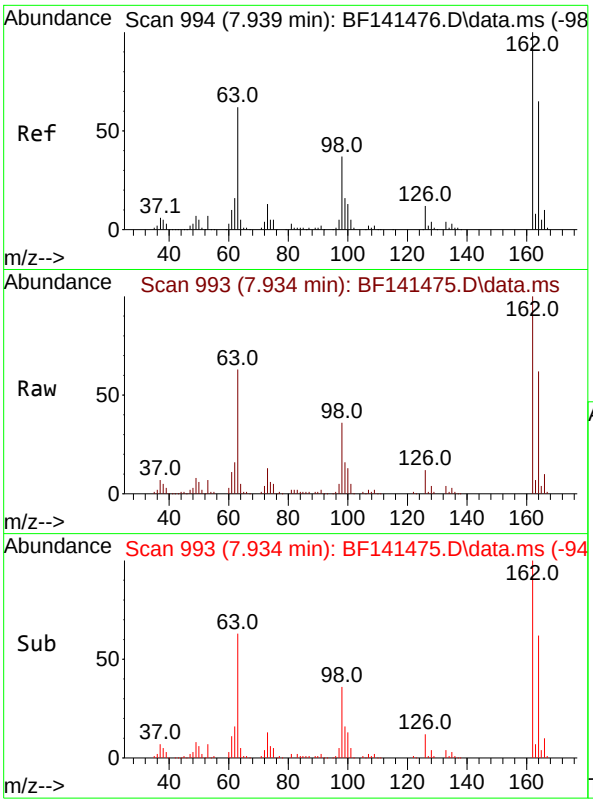


#28
bis(2-Chloroethoxy)methane
Concen: 20.852 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 93 Resp: 142151

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.1	39.1
123	13.0	9.5	14.3

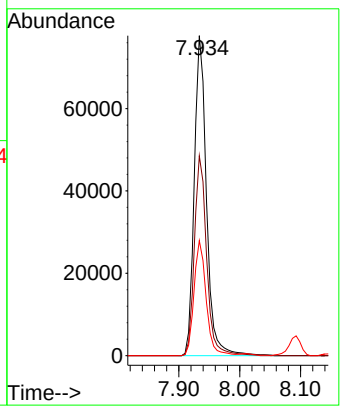




#29
2,4-Dichlorophenol
Concen: 21.227 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:162 Resp: 10845

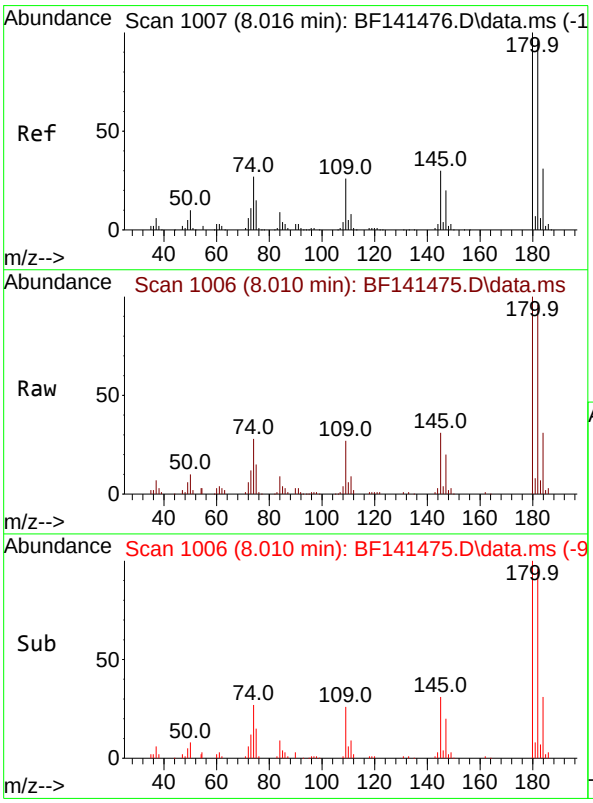
Ion	Ratio	Lower	Upper
162	100		
164	62.4	44.6	84.6
98	36.0	17.2	57.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

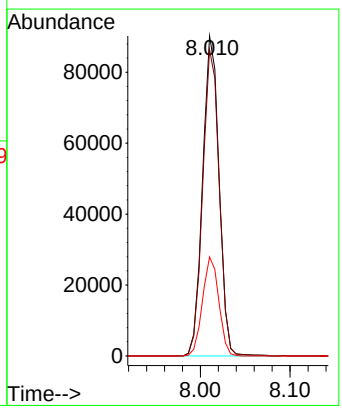
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

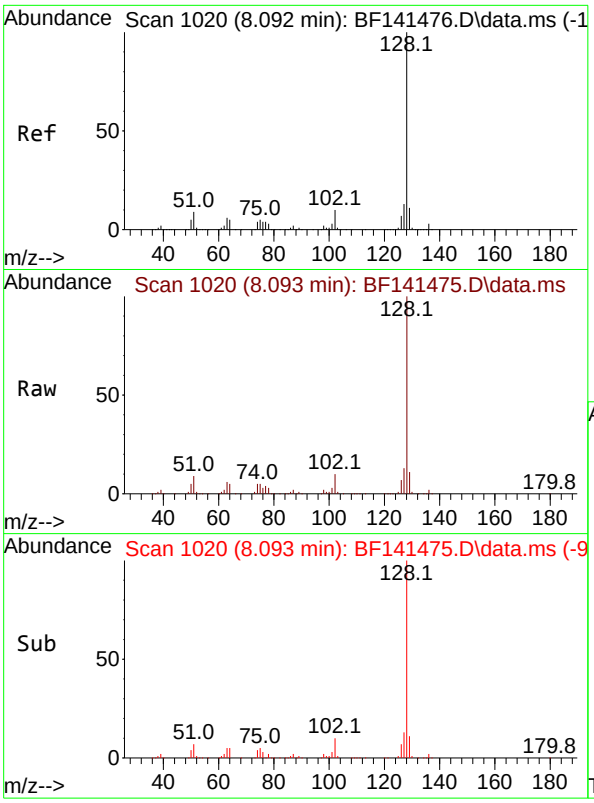


#30
1,2,4-Trichlorobenzene
Concen: 20.678 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:180 Resp: 115050

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.8	115.2
145	31.0	24.2	36.4

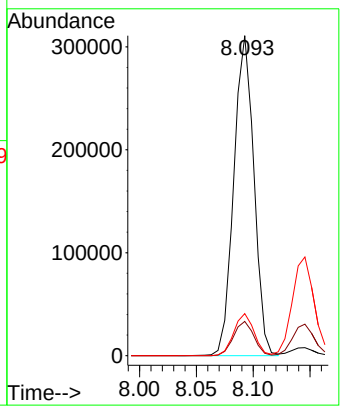




#31
Naphthalene
Concen: 21.062 ng
RT: 8.093 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:128 Resp: 38154

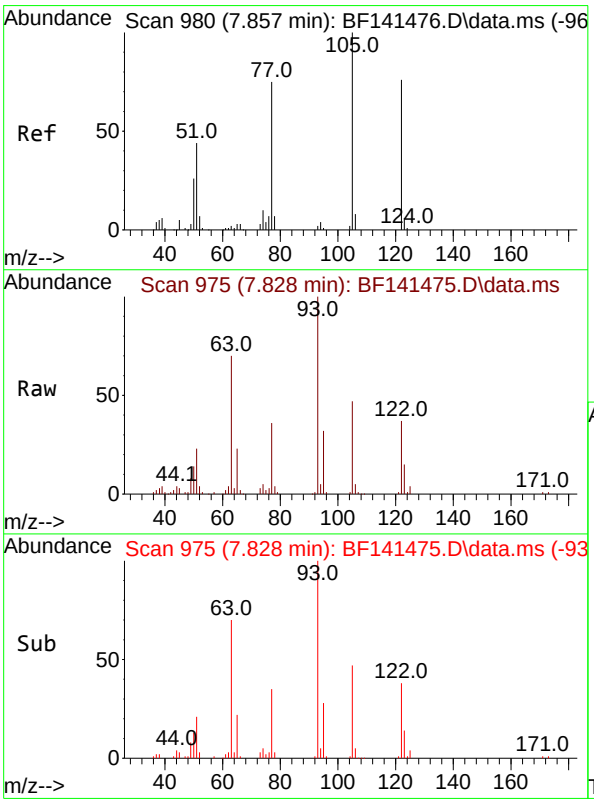
Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.9	13.3
127	13.2	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

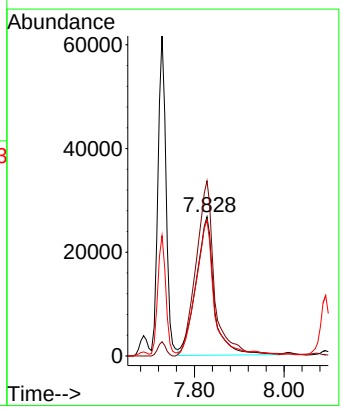
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

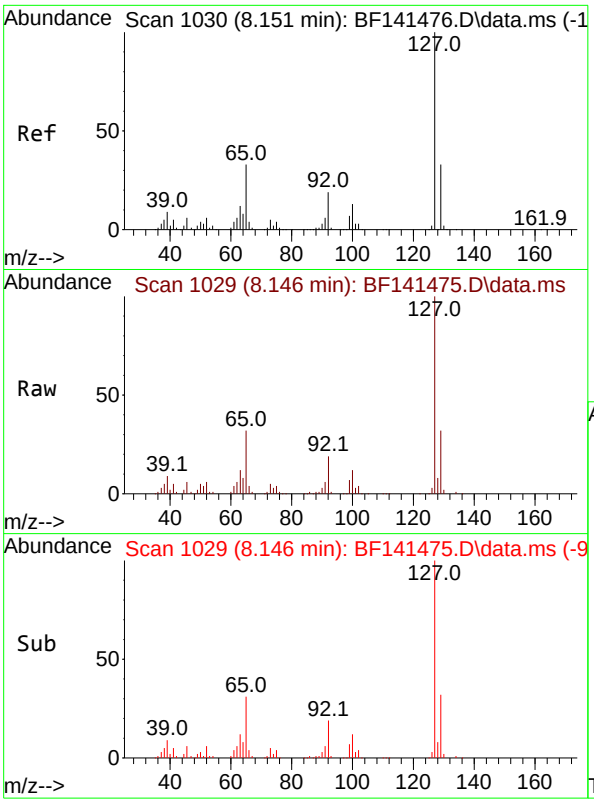


#32
Benzoic acid
Concen: 19.212 ng
RT: 7.828 min Scan# 975
Delta R.T. -0.064 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:122 Resp: 75462

Ion	Ratio	Lower	Upper
122	100		
105	125.8	106.5	146.5
77	97.6	76.3	116.3

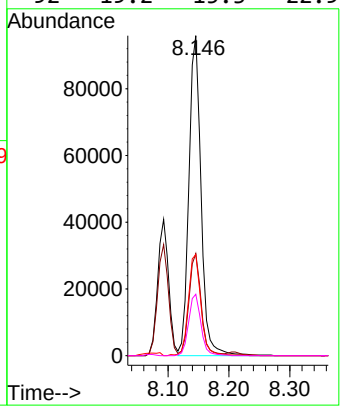




#33
4-Chloroaniline
Concen: 21.014 ng
RT: 8.146 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:127 Resp: 13291

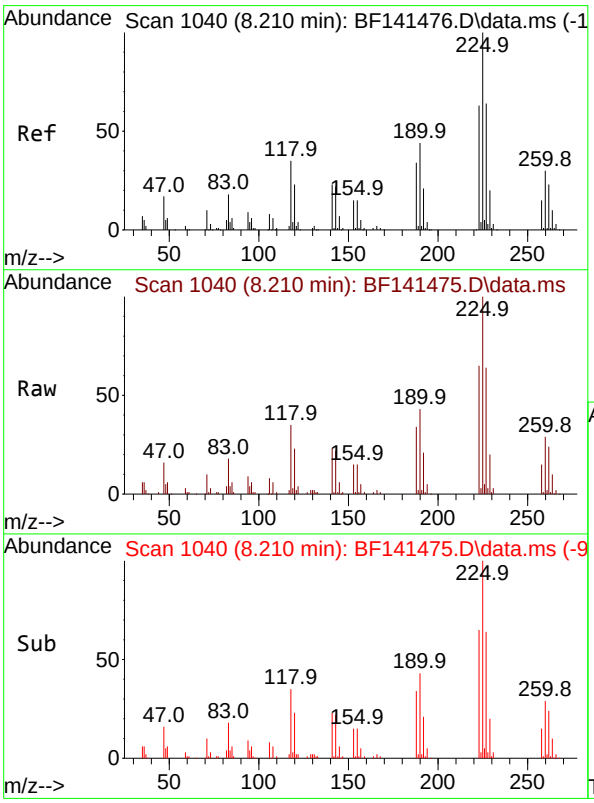
Ion	Ratio	Lower	Upper
127	100		
129	31.9	26.5	39.7
65	31.6	26.4	39.6
92	19.2	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

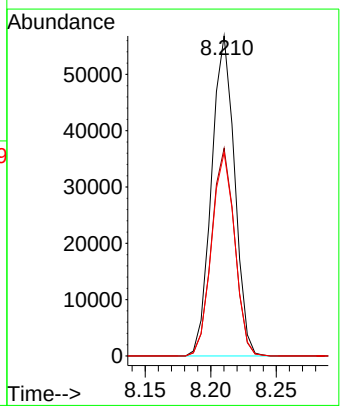
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

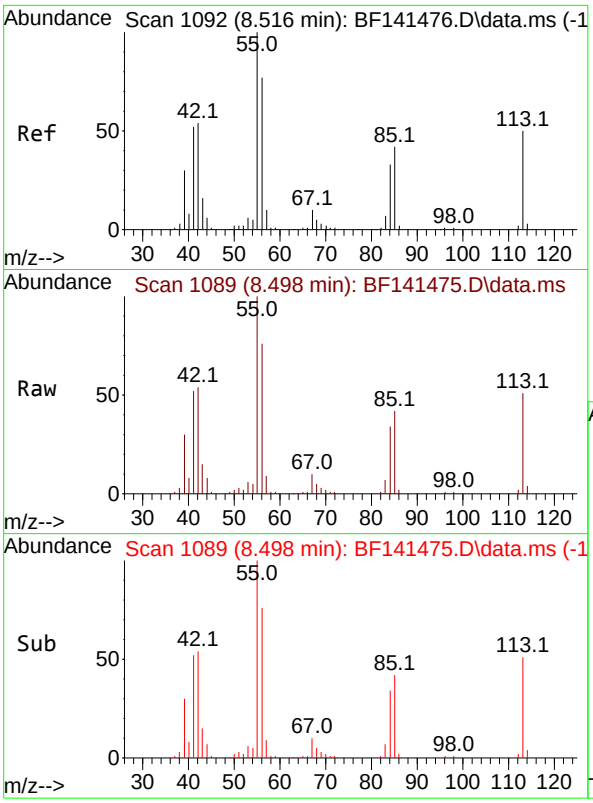


#34
Hexachlorobutadiene
Concen: 20.804 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:225 Resp: 69492

Ion	Ratio	Lower	Upper
225	100		
223	64.9	50.1	75.1
227	63.5	51.0	76.6





#35
Caprolactam
Concen: 21.050 ng
RT: 8.498 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

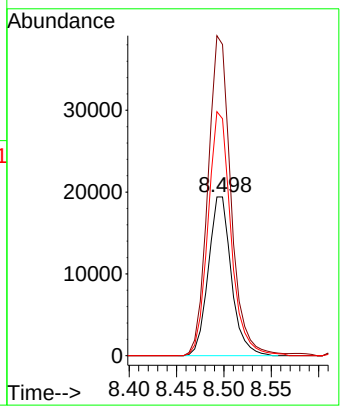
Tgt Ion:113 Resp: 3274

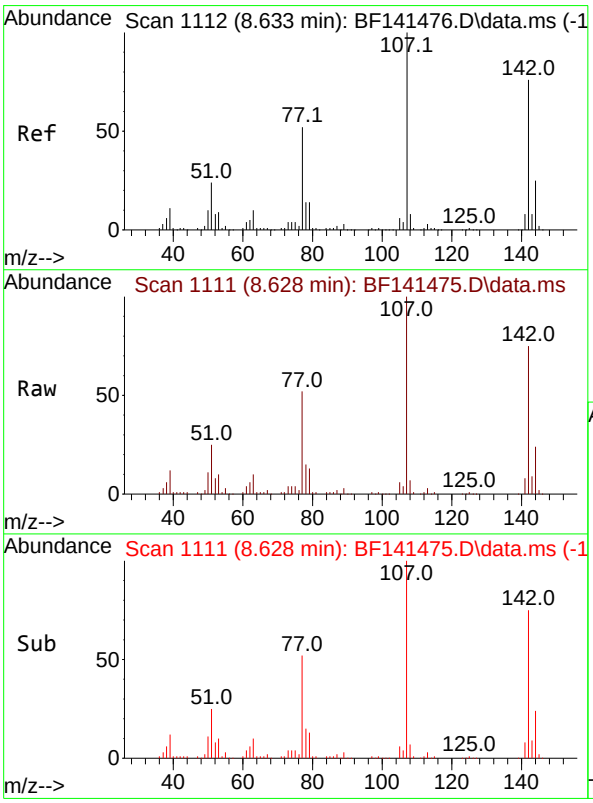
Ion	Ratio	Lower	Upper
113	100		
55	196.0	180.8	220.8
56	149.2	133.6	173.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

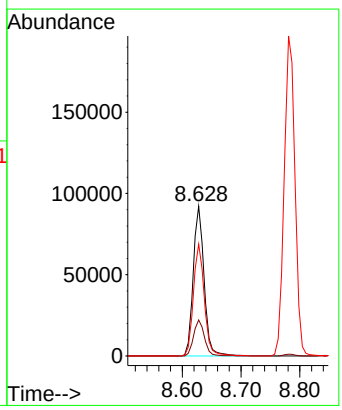


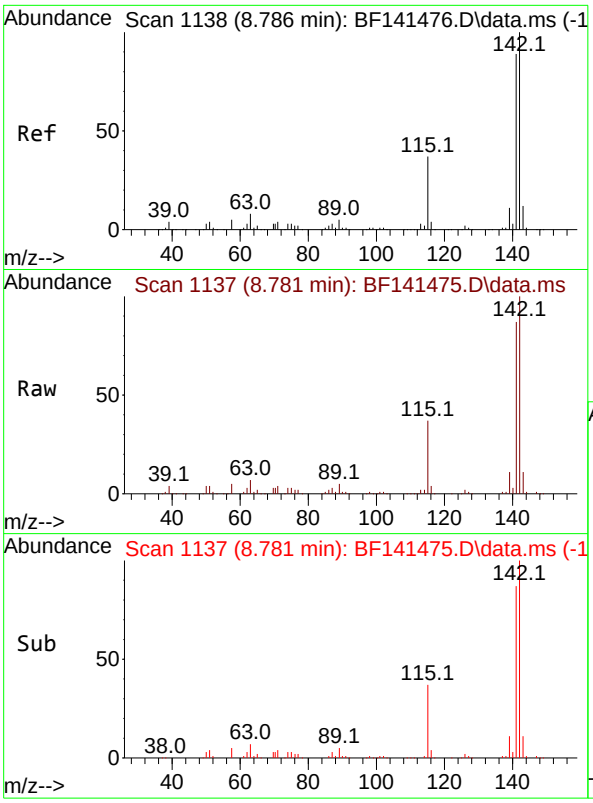


#36
4-Chloro-3-methylphenol
Concen: 21.029 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:107 Resp: 119021

Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.7	29.5
142	74.7	60.8	91.2

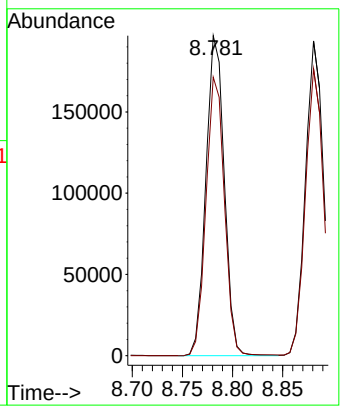




#37
2-Methylnaphthalene
Concen: 21.238 ng
RT: 8.781 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:142 Resp: 25036

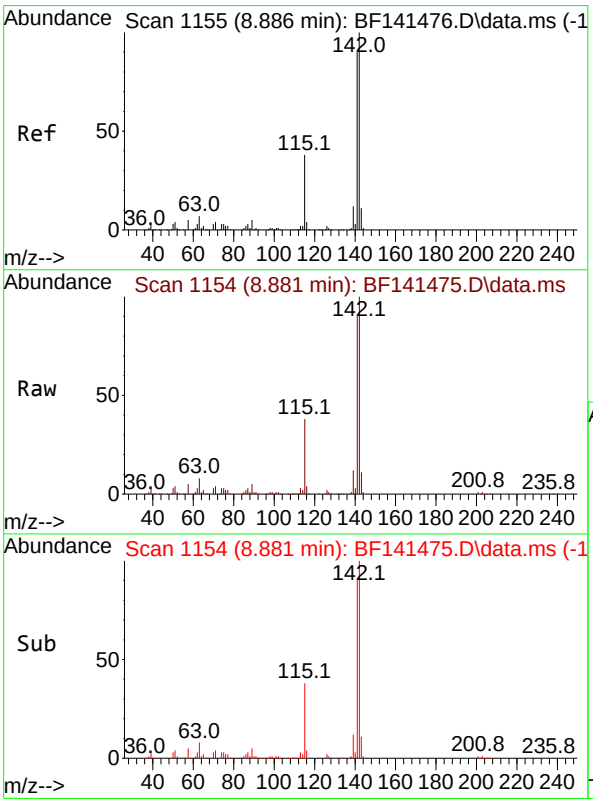
Ion	Ratio	Lower	Upper
142	100		
141	87.0	71.2	106.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

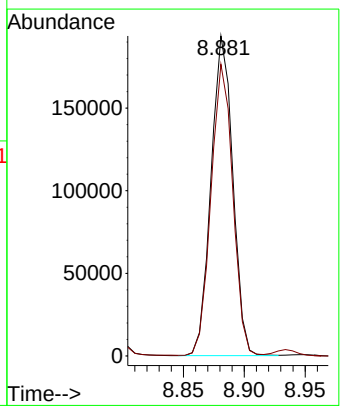
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

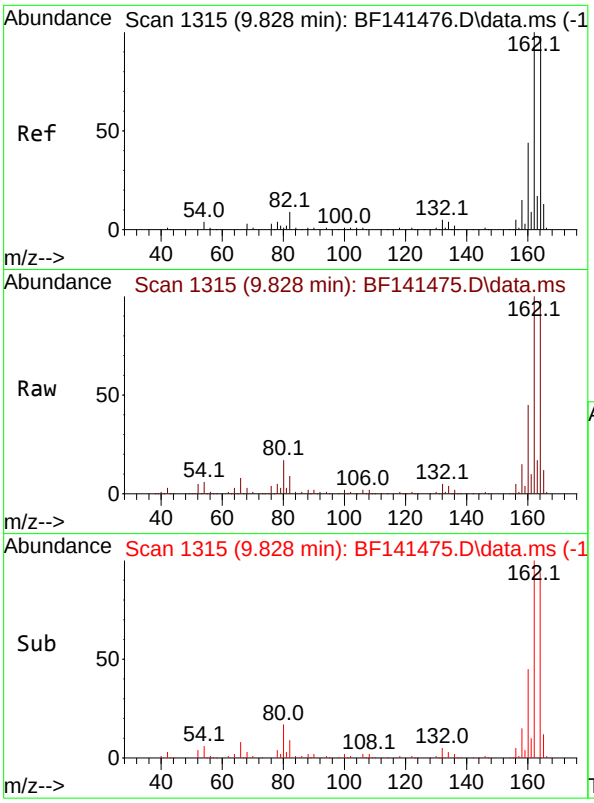


#38
1-Methylnaphthalene
Concen: 21.056 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:142 Resp: 240408

Ion	Ratio	Lower	Upper
142	100		
141	91.1	72.1	108.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

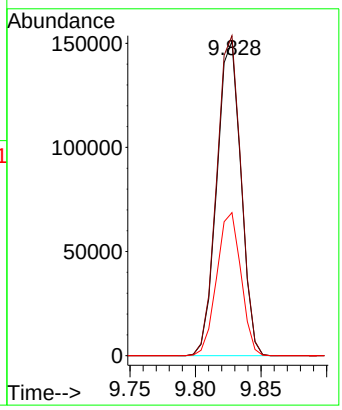
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

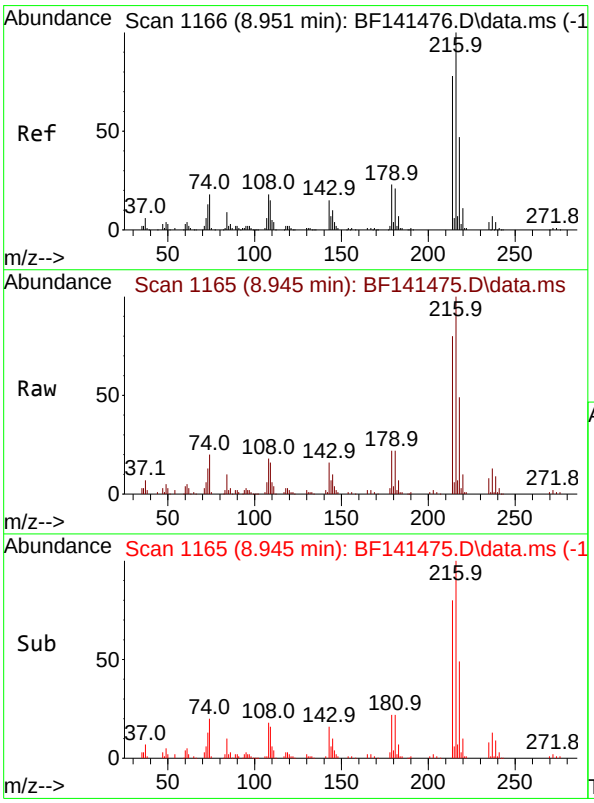
Tgt Ion:164 Resp: 19309

Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.3	121.9
160	45.5	35.9	53.9

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

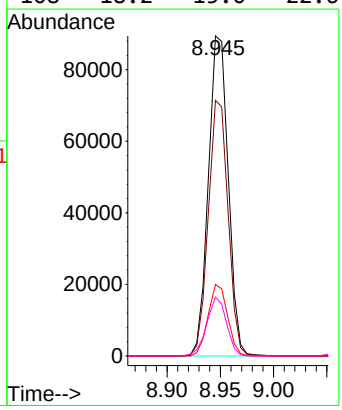


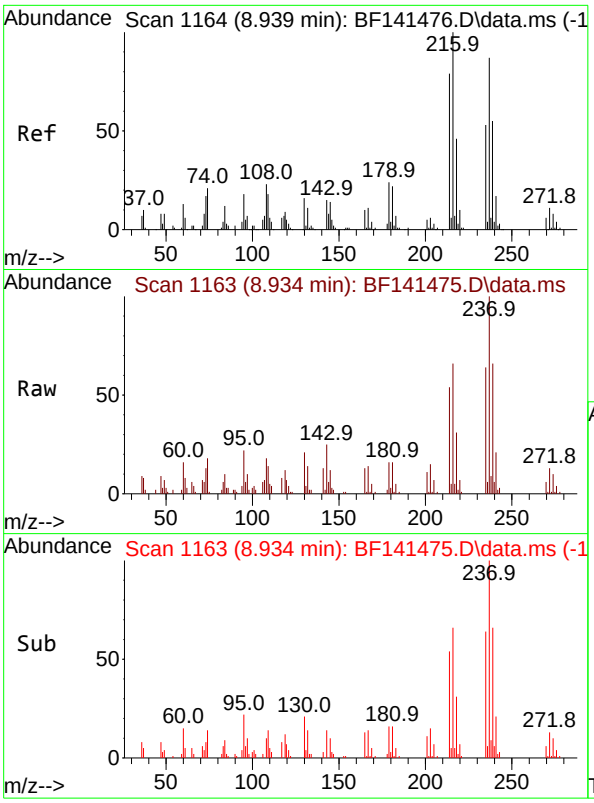


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.753 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:216 Resp: 115936

Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.3	93.5
179	21.9	18.0	27.0
108	18.2	15.0	22.6

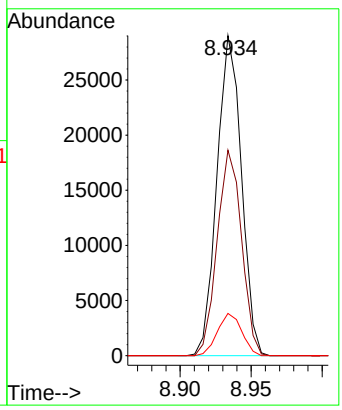




#41
Hexachlorocyclopentadiene
Concen: 18.691 ng
RT: 8.934 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:237 Resp: 3472

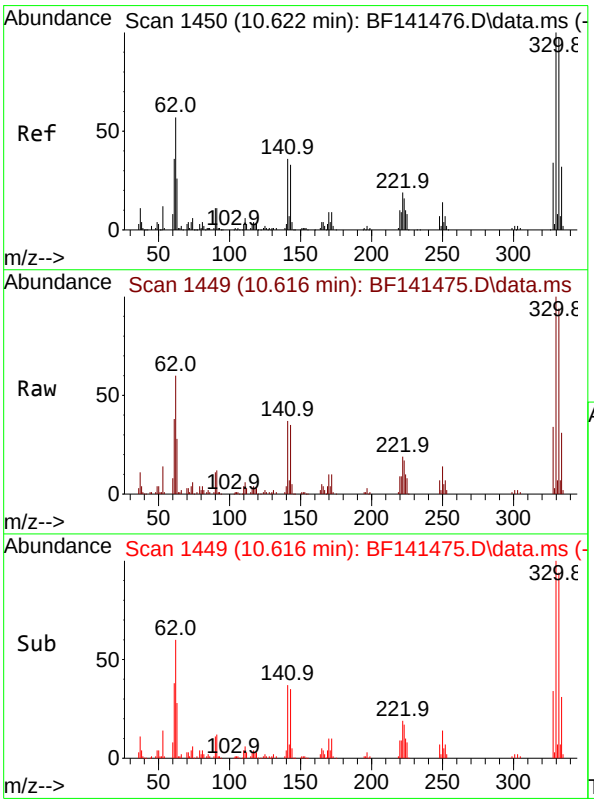
Ion	Ratio	Lower	Upper
237	100		
235	64.2	41.4	81.4
272	13.2	0.0	32.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

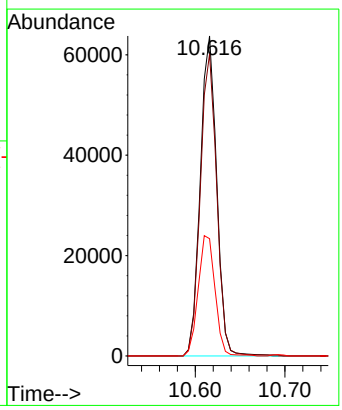
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

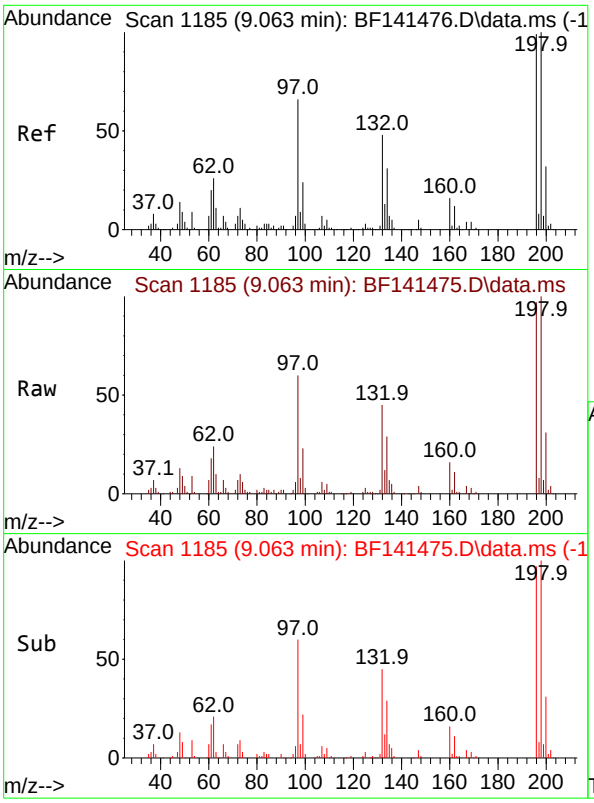


#42
2,4,6-Tribromophenol
Concen: 41.714 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:330 Resp: 80912

Ion	Ratio	Lower	Upper
330	100		
332	94.7	78.5	117.7
141	38.7	31.0	46.4

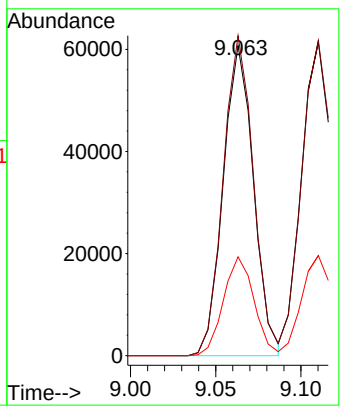




#43
2,4,6-Trichlorophenol
Concen: 20.817 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:196 Resp: 7516

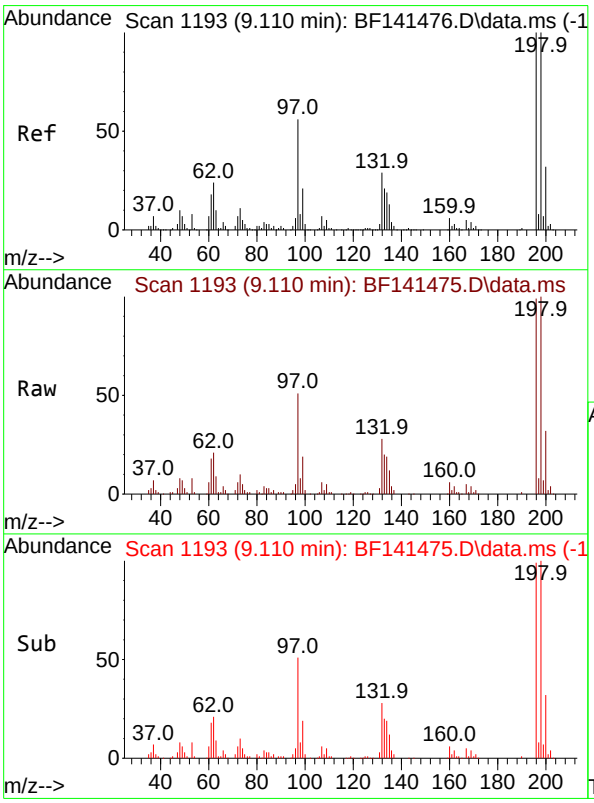
Ion	Ratio	Lower	Upper
196	100		
198	103.2	80.6	121.0
200	31.9	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

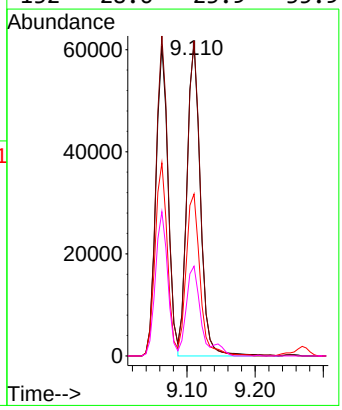
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

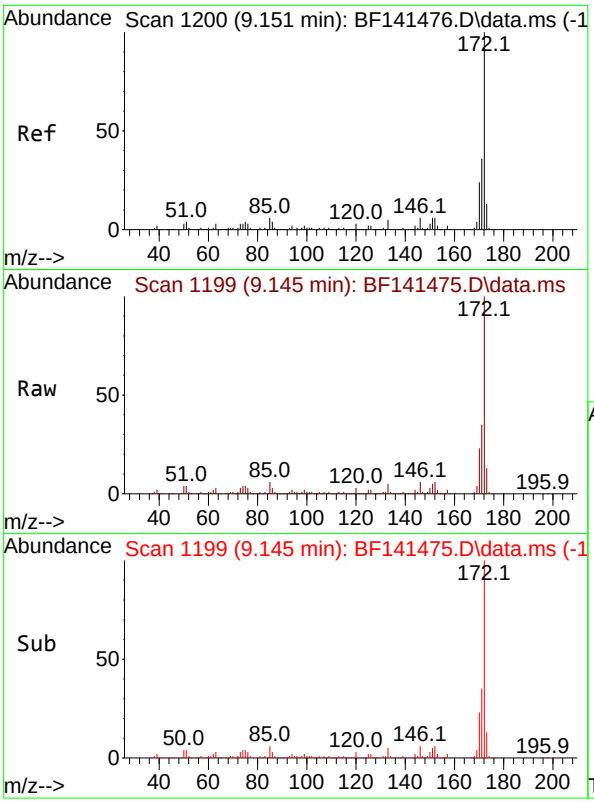


#44
2,4,5-Trichlorophenol
Concen: 21.240 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:196 Resp: 83112

Ion	Ratio	Lower	Upper
196	100		
198	100.6	79.8	119.8
97	51.7	44.8	67.2
132	28.6	23.9	35.9

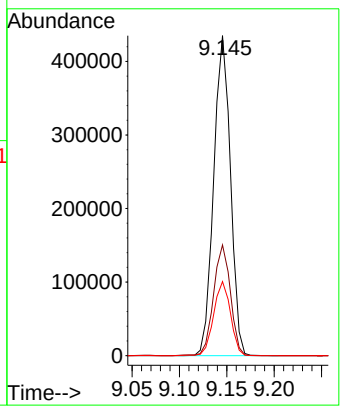




#45
2-Fluorobiphenyl
Concen: 42.674 ng
RT: 9.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:172 Resp: 53484

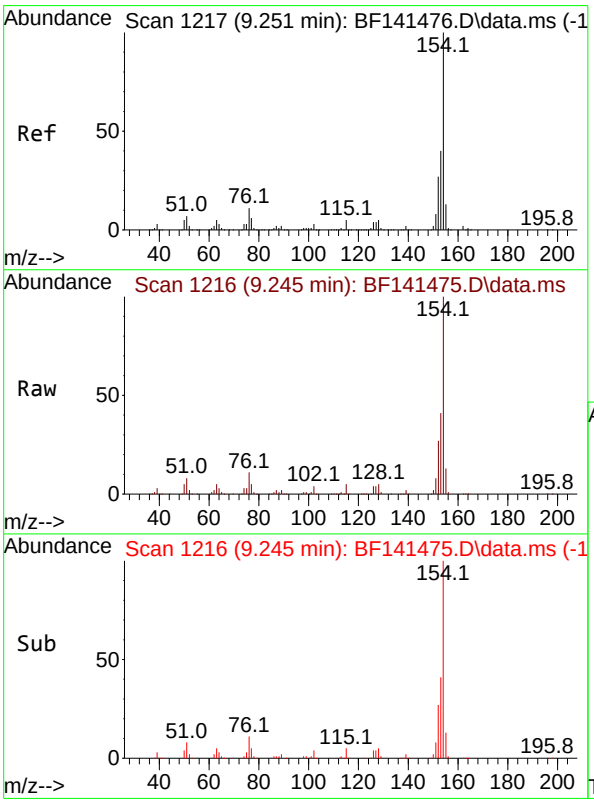
Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.7	43.1
170	23.1	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

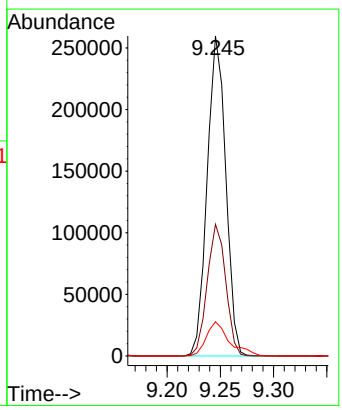
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

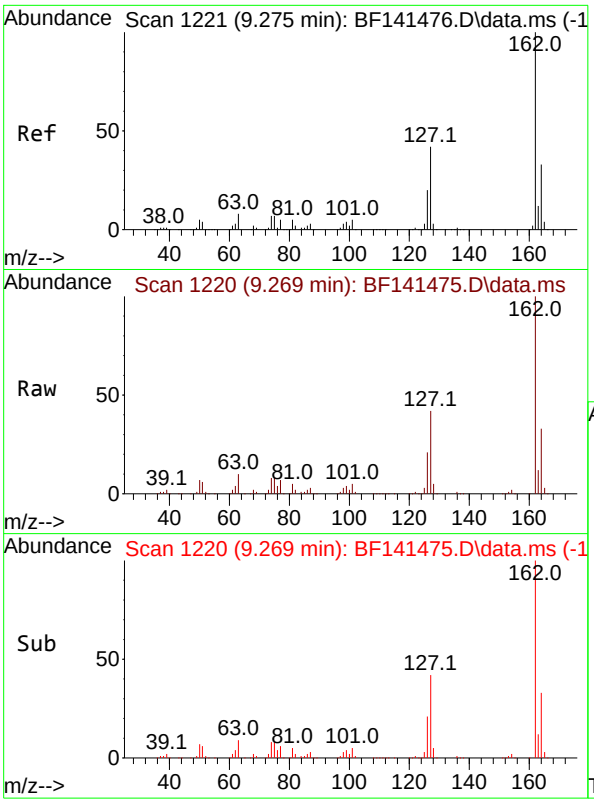


#46
1,1'-Biphenyl
Concen: 21.045 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:154 Resp: 315040

Ion	Ratio	Lower	Upper
154	100		
153	41.2	20.4	60.4
76	10.7	0.0	30.8

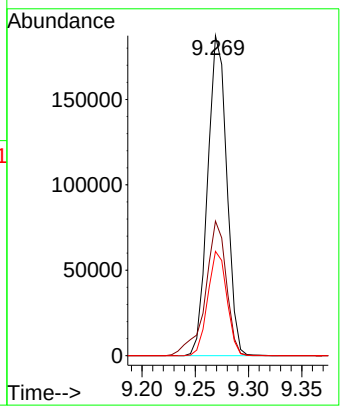




#47
2-Chloronaphthalene
Concen: 21.119 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:162 Resp: 23378

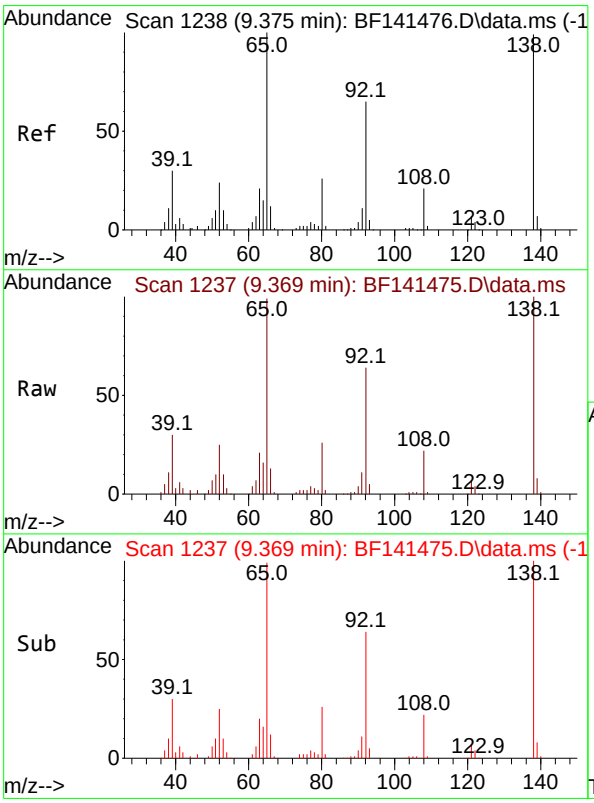
Ion	Ratio	Lower	Upper
162	100		
127	42.1	34.1	51.1
164	32.6	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

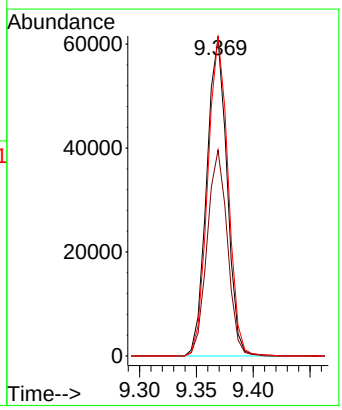
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

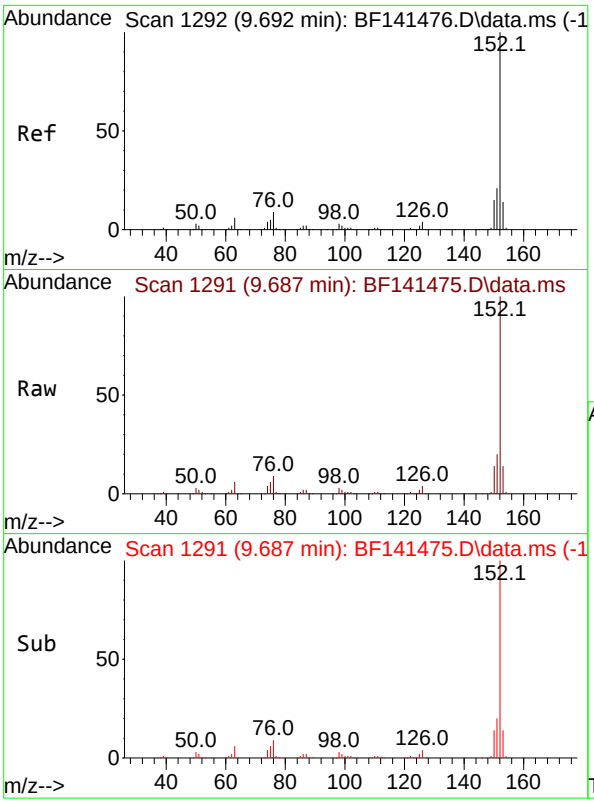


#48
2-Nitroaniline
Concen: 20.455 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 65 Resp: 75990

Ion	Ratio	Lower	Upper
65	100		
92	64.8	52.2	78.2
138	100.7	79.5	119.3

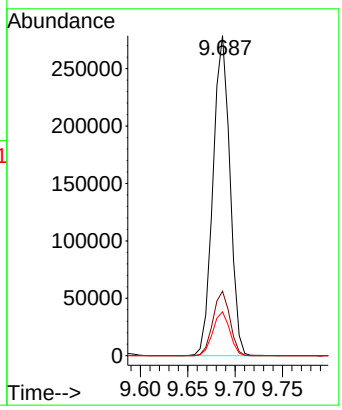




#49
Acenaphthylene
Concen: 21.004 ng
RT: 9.687 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:152 Resp: 34582

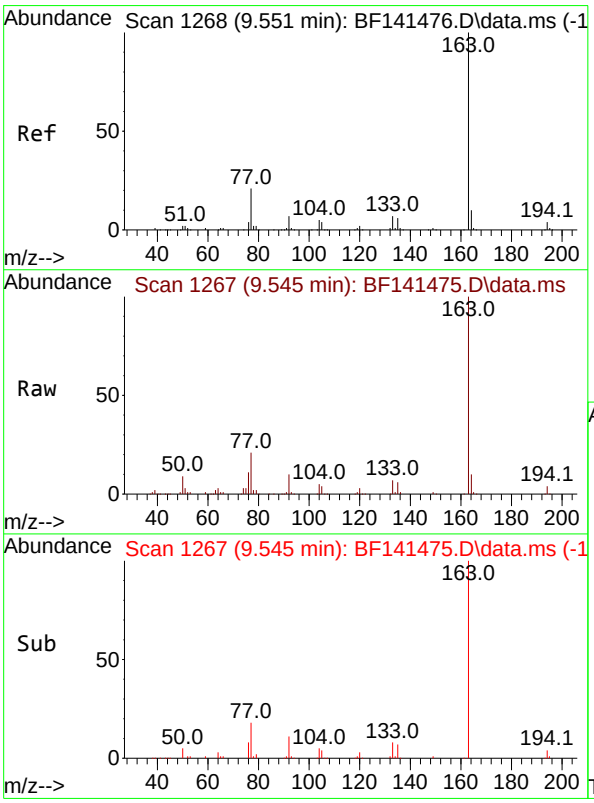
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	13.7	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

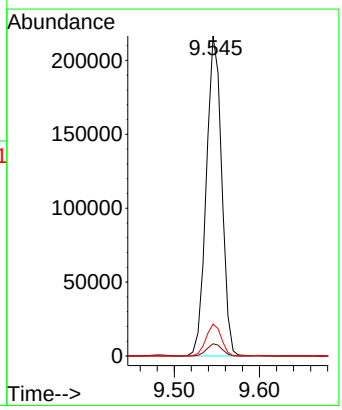
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

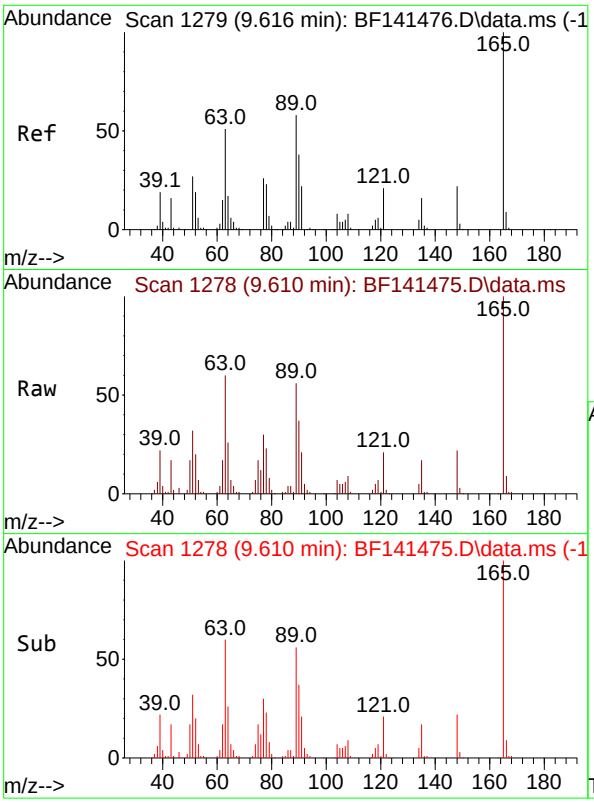


#50
Dimethylphthalate
Concen: 20.744 ng
RT: 9.545 min Scan# 1267
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:163 Resp: 271920

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.0	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 21.182 ng
RT: 9.610 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

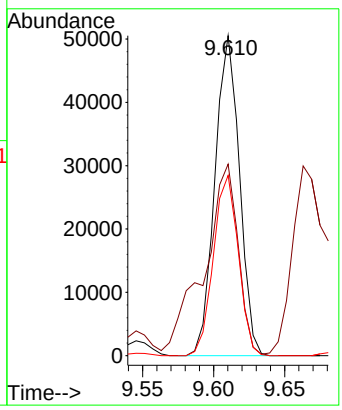
Tgt Ion:165 Resp: 6070

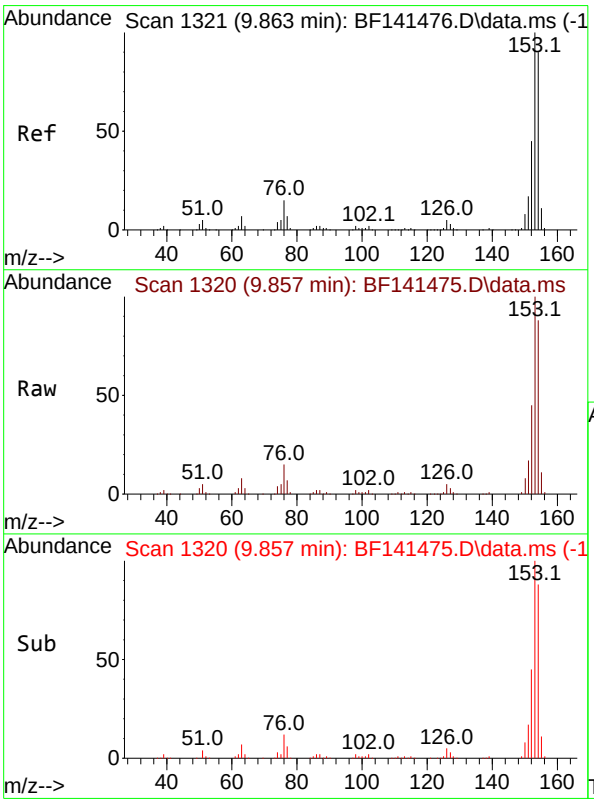
Ion	Ratio	Lower	Upper
165	100		
63	59.8	49.4	74.0
89	56.3	46.5	69.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

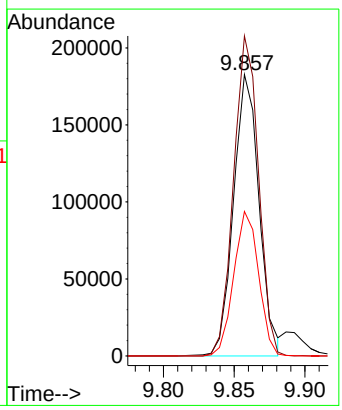


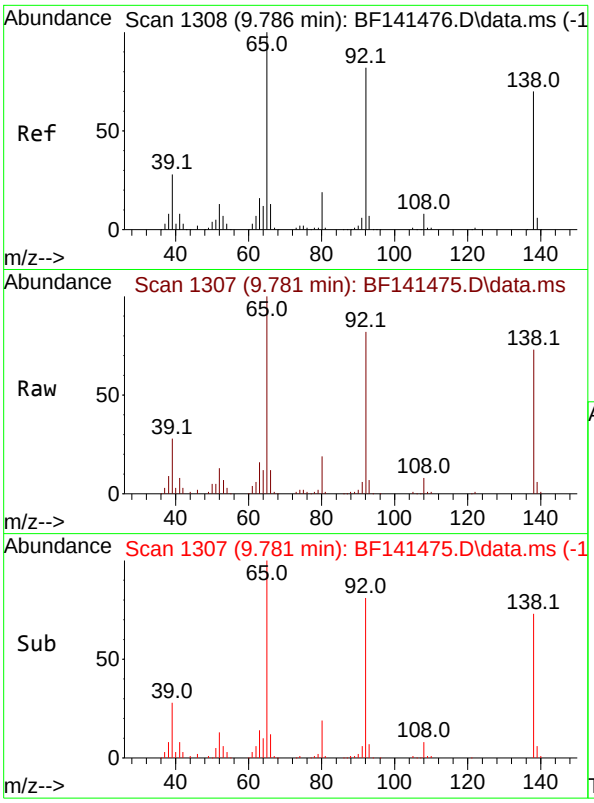


#52
Acenaphthene
Concen: 20.728 ng m
RT: 9.857 min Scan# 1320
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:154 Resp: 229442

Ion	Ratio	Lower	Upper
154	100		
153	113.7	89.2	133.8
152	51.3	39.8	59.8

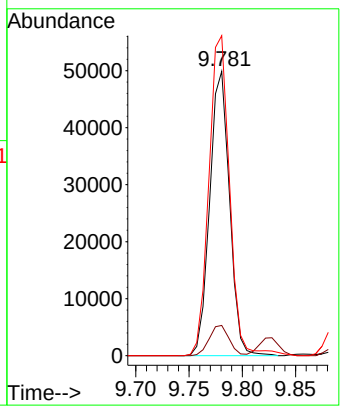




#53
3-Nitroaniline
Concen: 20.954 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:138 Resp: 6462

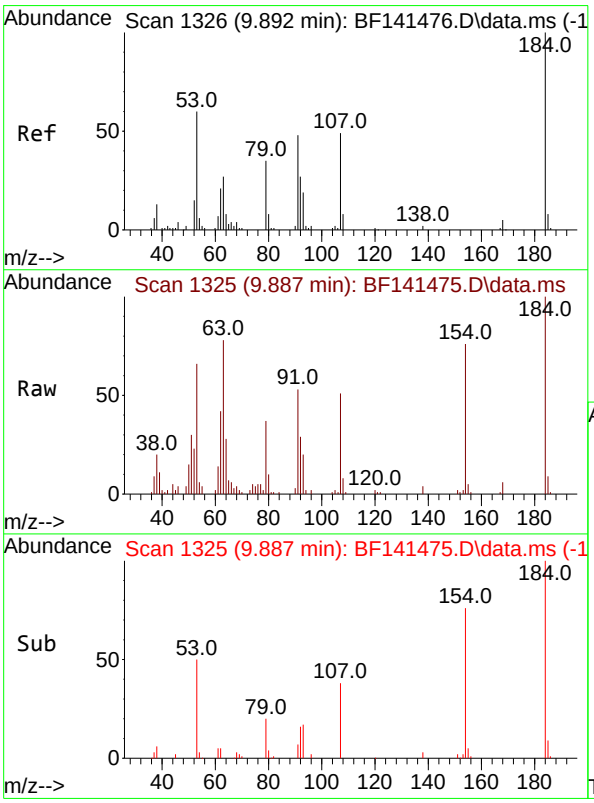
Ion	Ratio	Lower	Upper
138	100		
108	10.6	9.0	13.4
92	112.5	93.7	140.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

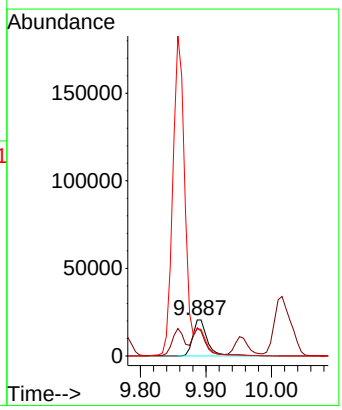
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

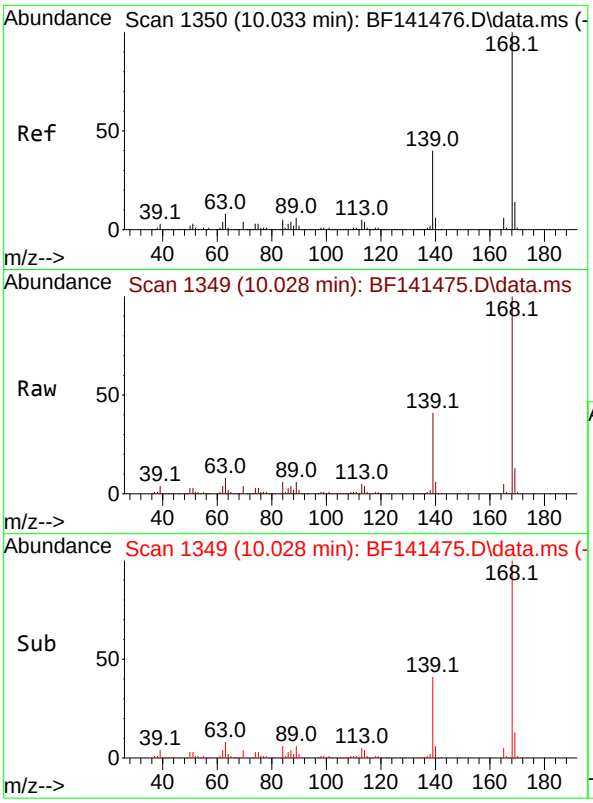


#54
2,4-Dinitrophenol
Concen: 18.898 ng
RT: 9.887 min Scan# 1325
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:184 Resp: 32186

Ion	Ratio	Lower	Upper
184	100		
63	78.3	61.0	91.6
154	75.8	59.9	89.9

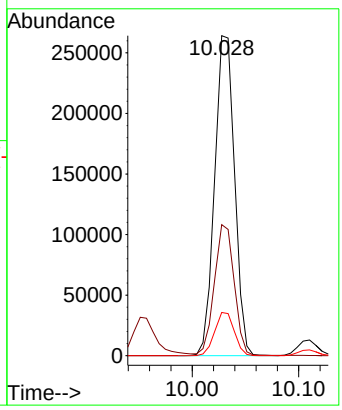




#55
Dibenzofuran
Concen: 21.087 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:168 Resp: 34262

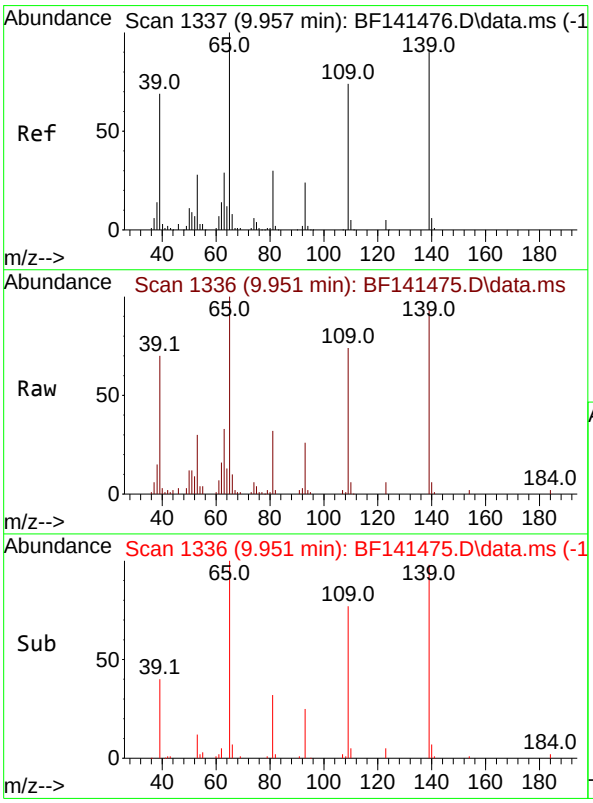
Ion	Ratio	Lower	Upper
168	100		
139	40.9	32.7	49.1
169	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

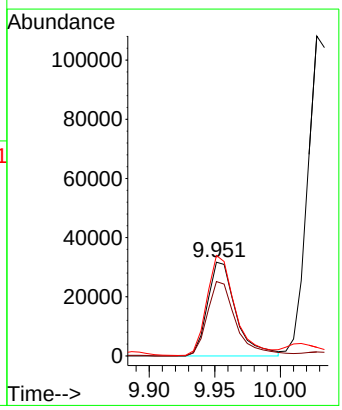
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

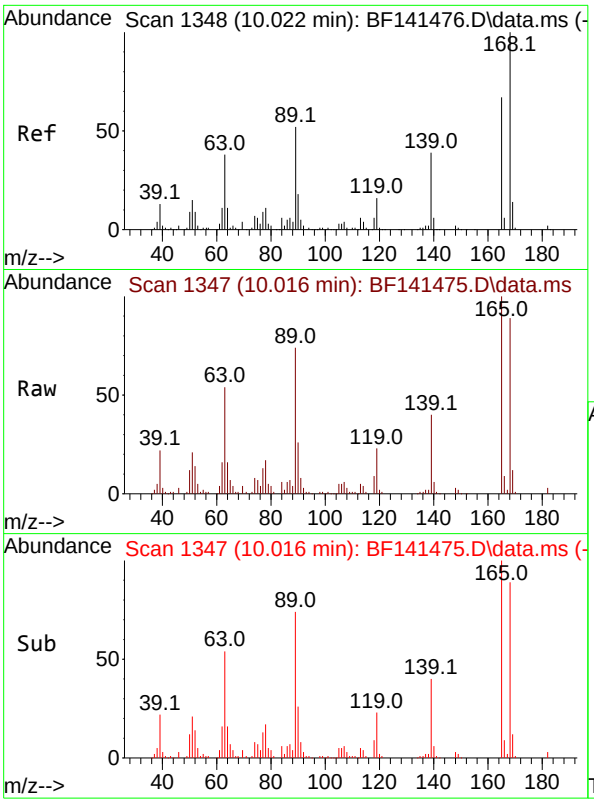


#56
4-Nitrophenol
Concen: 20.843 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.018 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:139 Resp: 47721

Ion	Ratio	Lower	Upper
139	100		
109	79.3	62.0	102.0
65	107.1	91.2	131.2

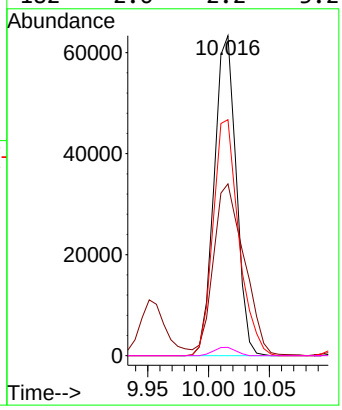




#57
2,4-Dinitrotoluene
Concen: 20.936 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:165 Resp: 7986

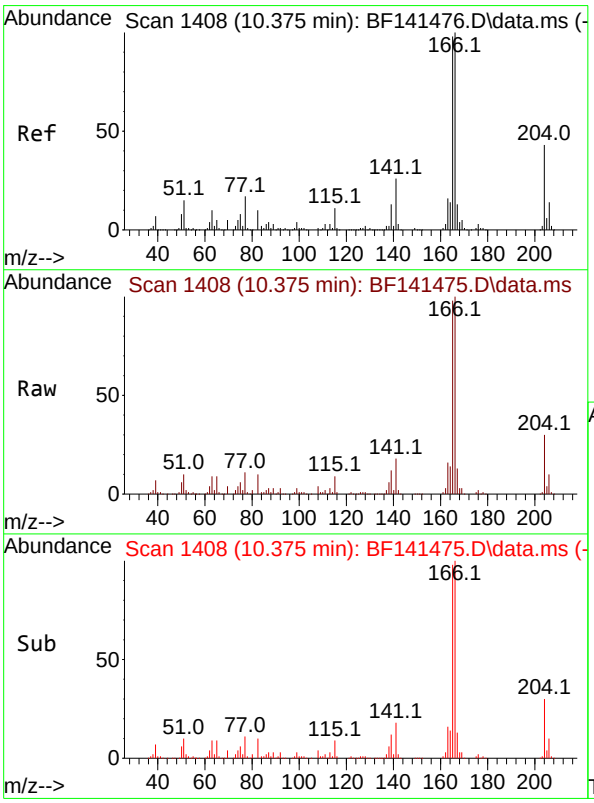
Ion	Ratio	Lower	Upper
165	100		
63	53.7	46.4	69.6
89	73.8	61.8	92.6
182	2.6	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

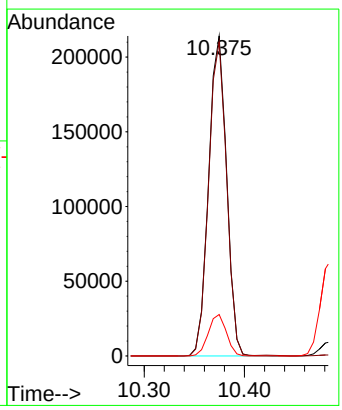
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

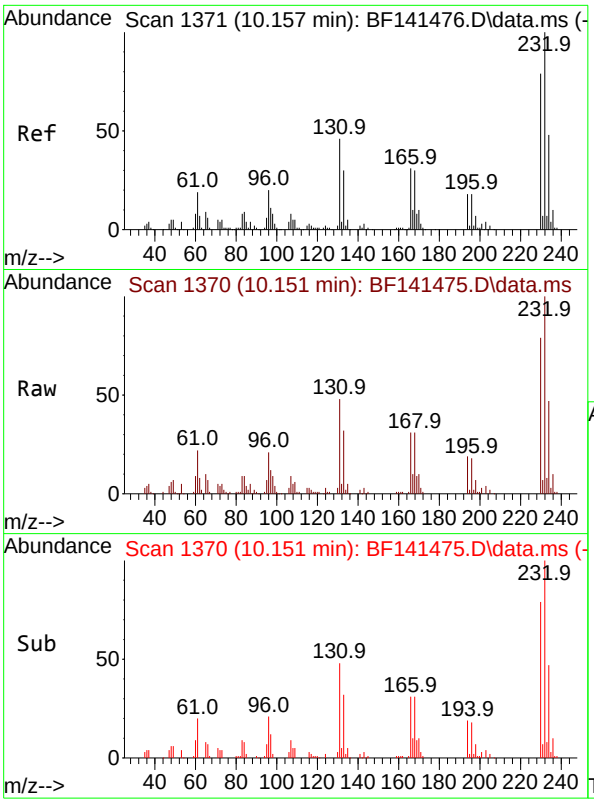


#58
Fluorene
Concen: 21.159 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:166 Resp: 265810

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.2	117.2
167	13.0	10.7	16.1

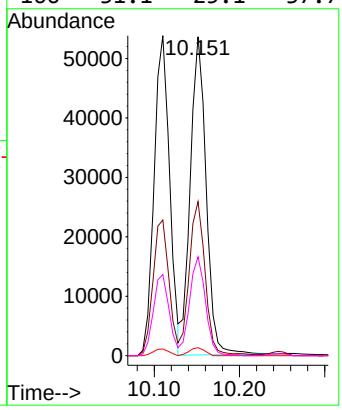




#59
2,3,4,6-Tetrachlorophenol
Concen: 20.579 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:232 Resp: 6932

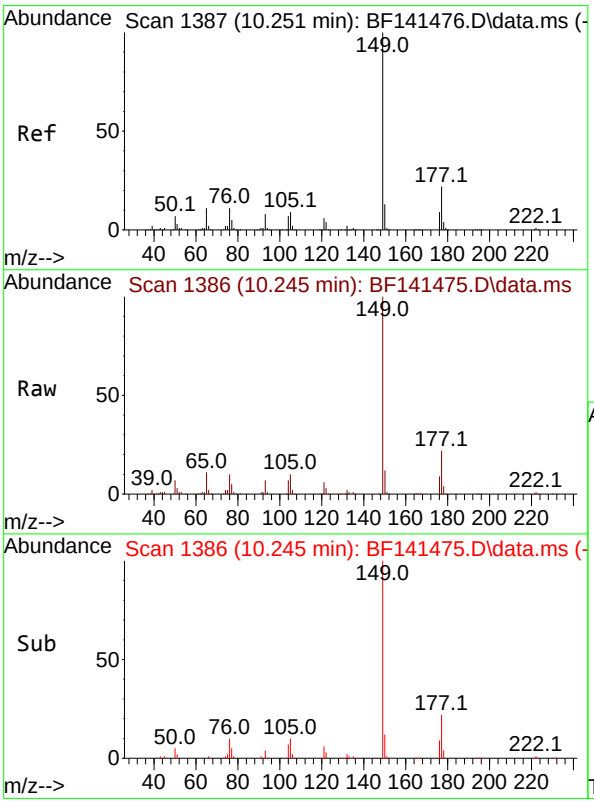
Ion	Ratio	Lower	Upper
232	100		
131	49.0	39.2	58.8
130	2.4	2.1	3.1
166	31.1	25.1	37.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

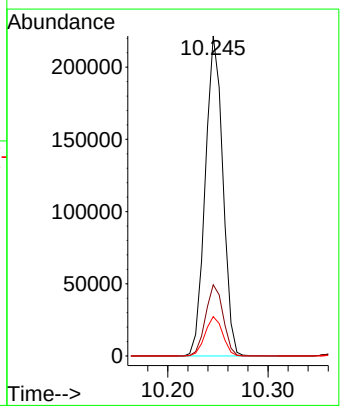
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

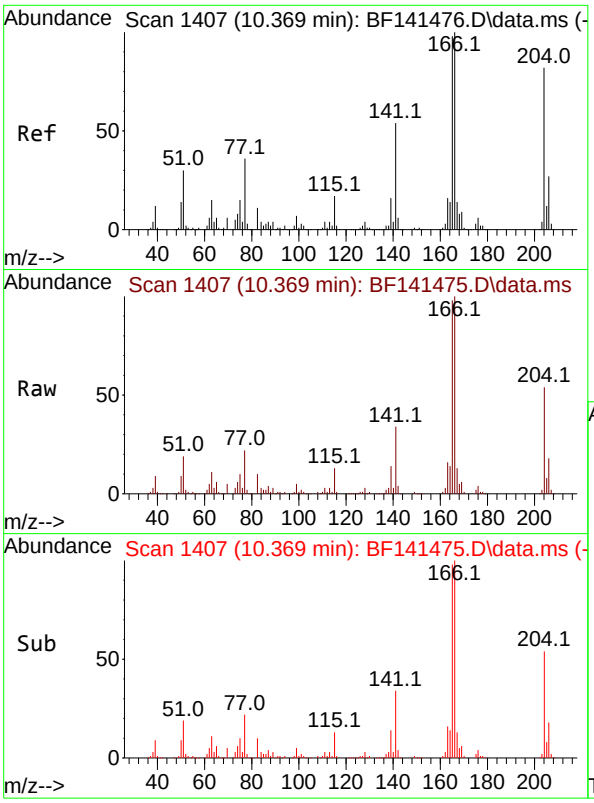


#60
Diethylphthalate
Concen: 20.936 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 270018

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.6
150	12.3	10.1	15.1

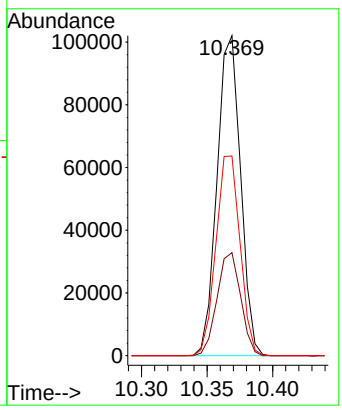




#61
4-Chlorophenyl-phenylether
Concen: 21.049 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:204 Resp: 12721(

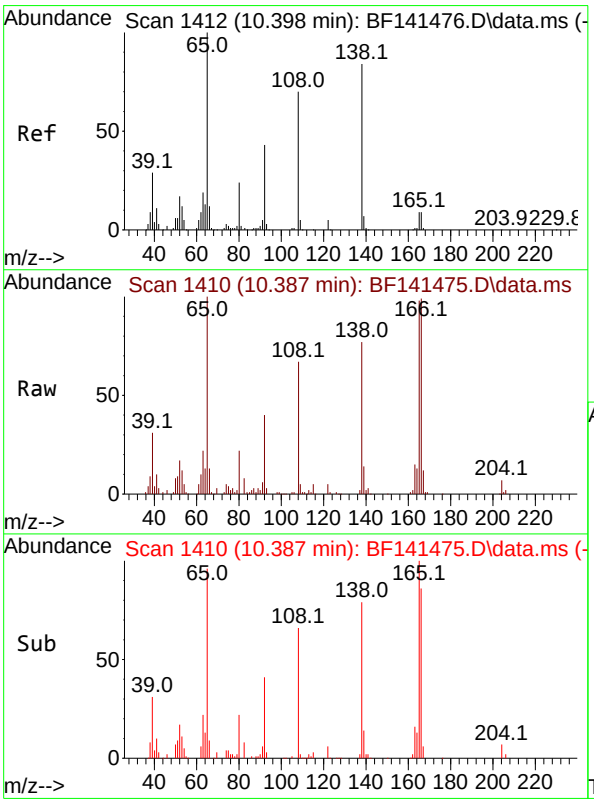
Ion	Ratio	Lower	Upper
204	100		
206	32.2	26.6	40.0
141	62.4	51.9	77.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

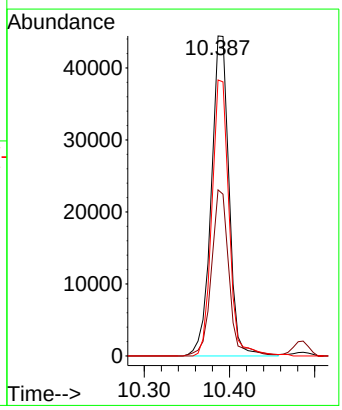
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

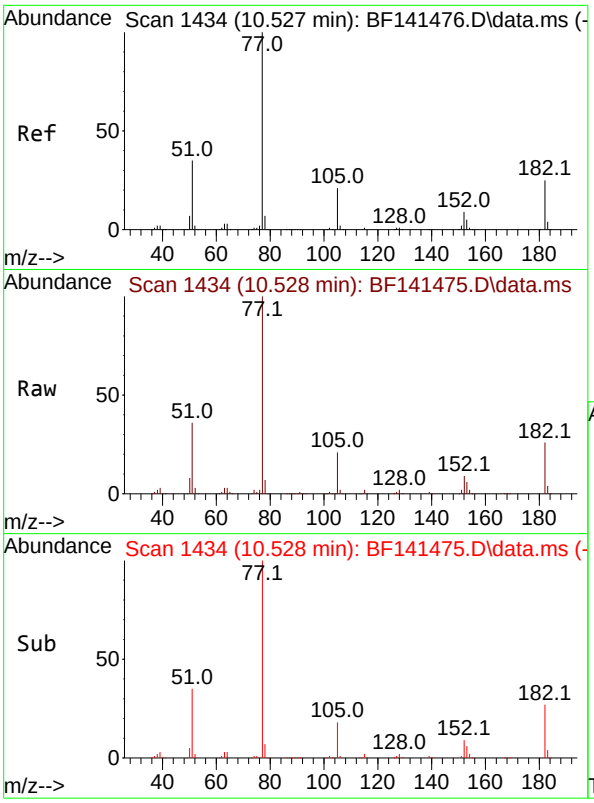


#62
4-Nitroaniline
Concen: 20.519 ng
RT: 10.387 min Scan# 1410
Delta R.T. -0.029 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:138 Resp: 64262

Ion	Ratio	Lower	Upper
138	100		
92	51.9	31.3	71.3
108	86.2	63.7	103.7

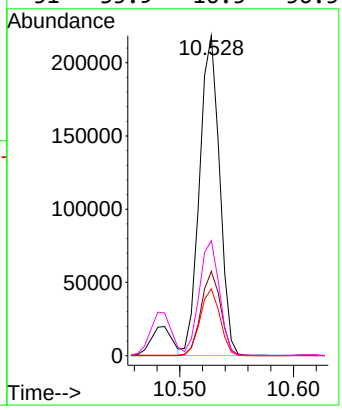




#63
Azobenzene
Concen: 20.853 ng
RT: 10.528 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 77 Resp: 26737

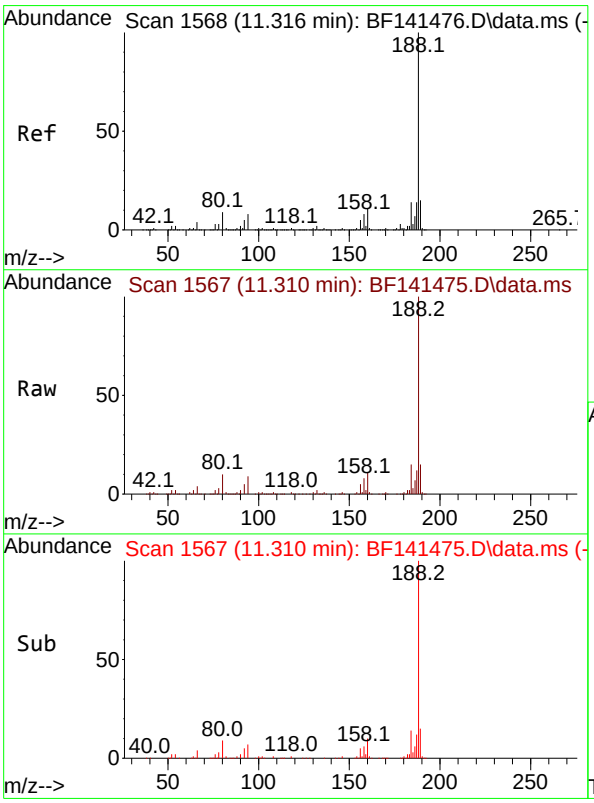
Ion	Ratio	Lower	Upper
77	100		
182	26.4	4.7	44.7
105	20.9	0.4	40.4
51	35.9	16.5	56.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

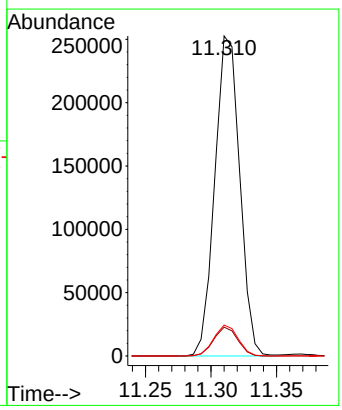
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

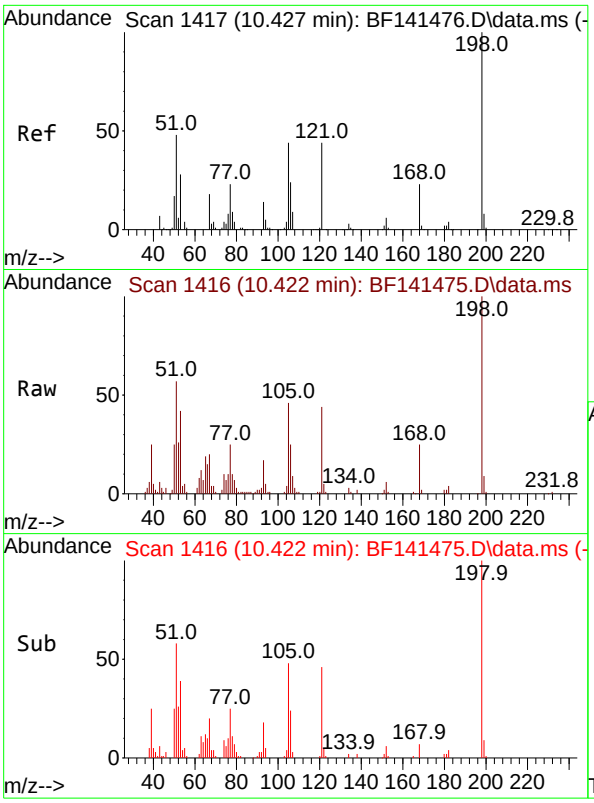


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:188 Resp: 333651

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.7	7.3	10.9

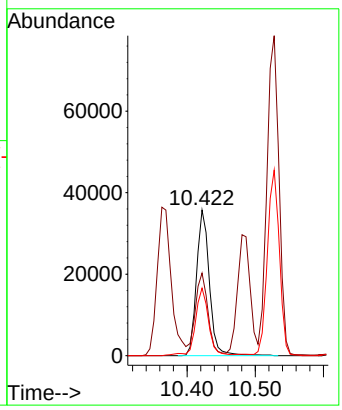




#65
4,6-Dinitro-2-methylphenol
Concen: 20.226 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:198 Resp: 4687

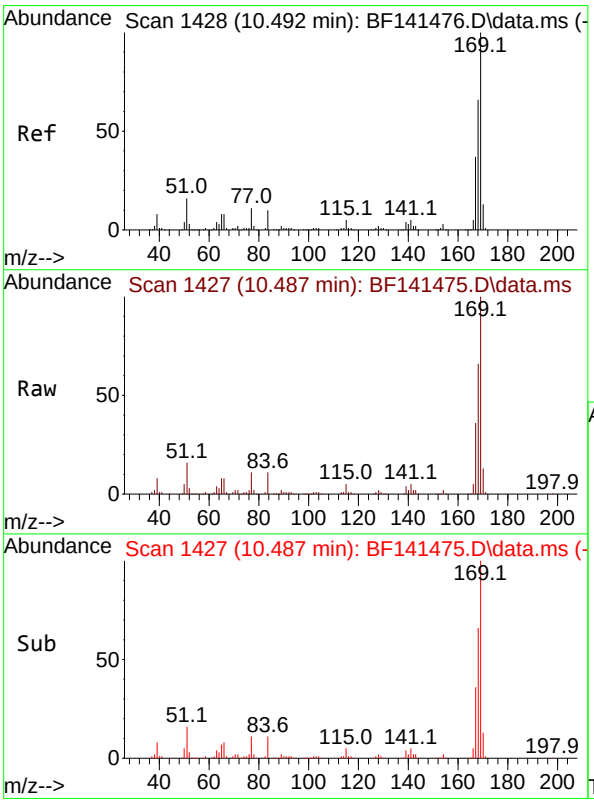
Ion	Ratio	Lower	Upper
198	100		
51	56.7	37.4	77.4
105	46.4	25.2	65.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

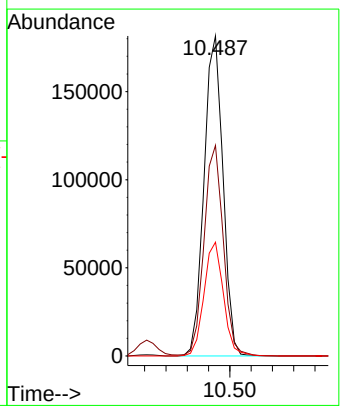
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

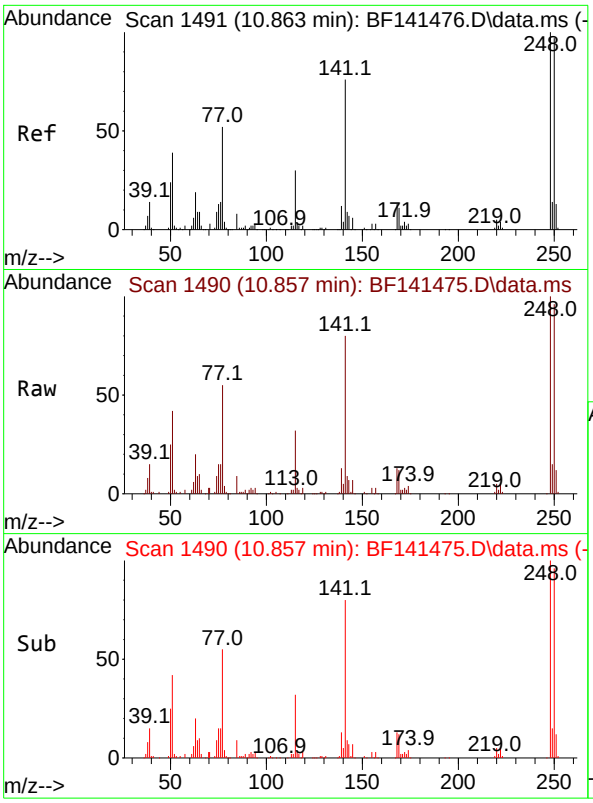


#66
n-Nitrosodiphenylamine
Concen: 21.045 ng
RT: 10.487 min Scan# 1427
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:169 Resp: 224776

Ion	Ratio	Lower	Upper
169	100		
168	65.8	53.3	79.9
167	35.6	29.4	44.2

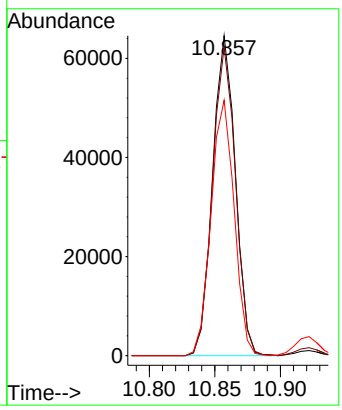




#67
4-Bromophenyl-phenylether
Concen: 20.962 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:248 Resp: 7816

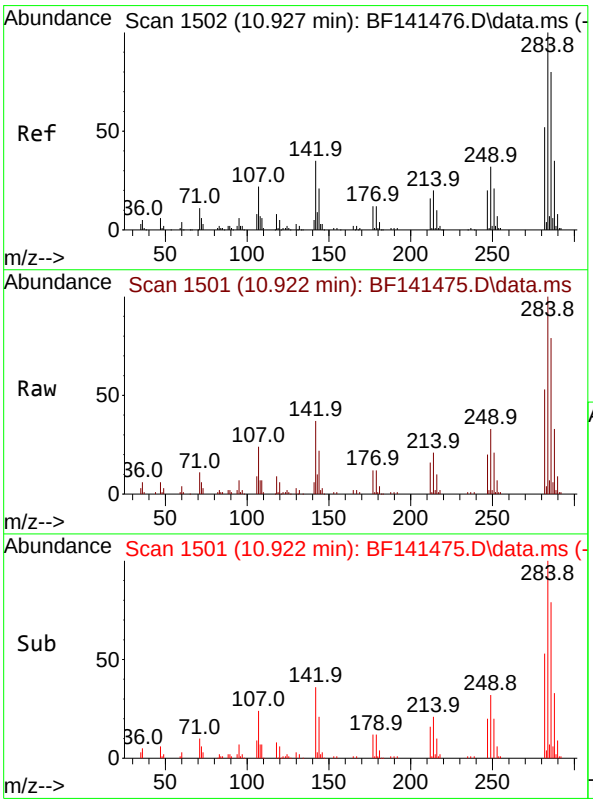
Ion	Ratio	Lower	Upper
248	100		
250	96.5	77.8	116.6
141	79.8	60.6	90.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

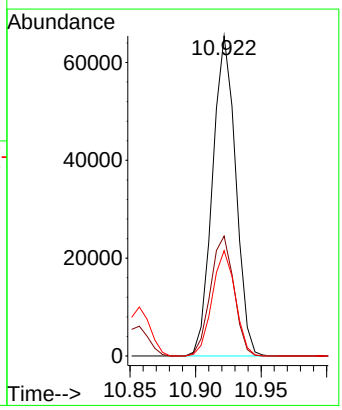
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

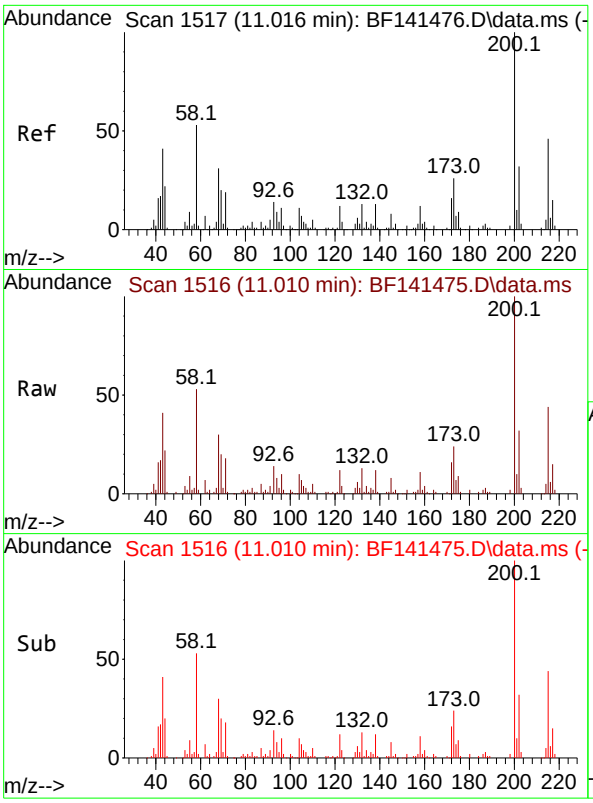


#68
Hexachlorobenzene
Concen: 20.913 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:284 Resp: 80301

Ion	Ratio	Lower	Upper
284	100		
142	37.5	28.0	42.0
249	32.9	25.8	38.8

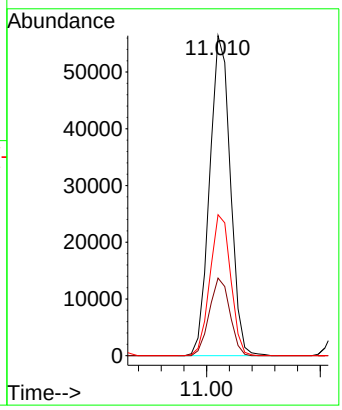




#69
Atrazine
Concen: 22.271 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:200 Resp: 7135

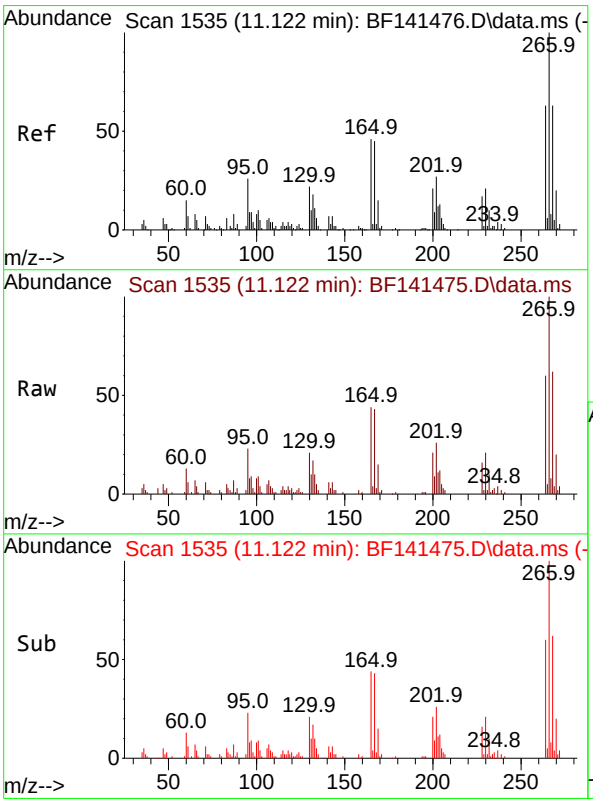
Ion	Ratio	Lower	Upper
200	100		
173	24.3	5.9	45.9
215	44.1	25.9	65.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

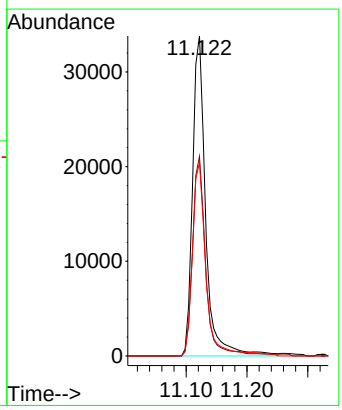
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

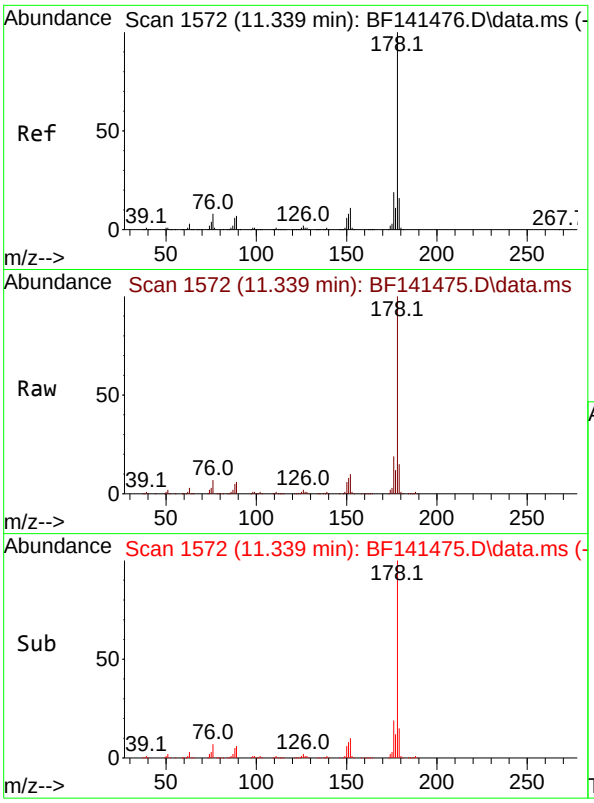


#70
Pentachlorophenol
Concen: 20.584 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:266 Resp: 50539

Ion	Ratio	Lower	Upper
266	100		
268	62.4	50.1	75.1
264	60.5	50.1	75.1

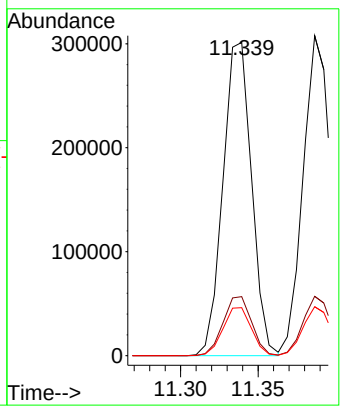




#71
Phenanthrene
Concen: 21.085 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:178 Resp: 38725

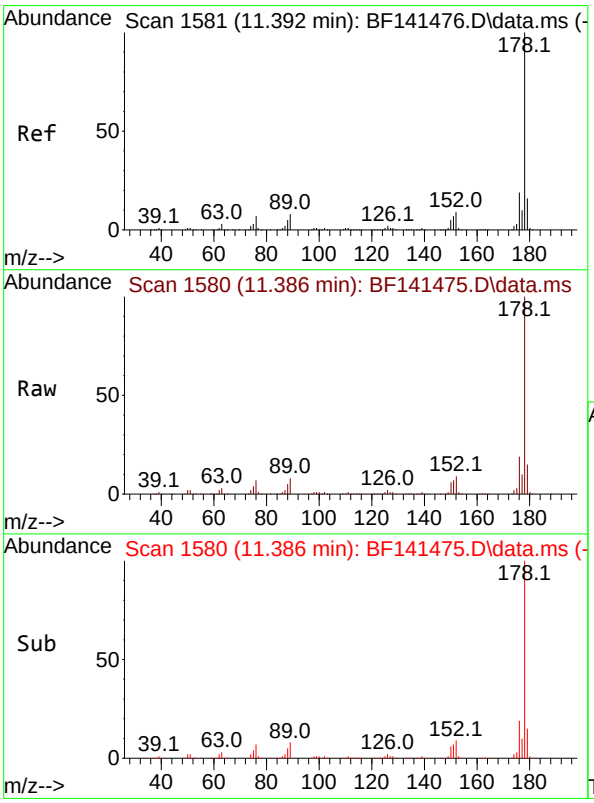
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.3	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

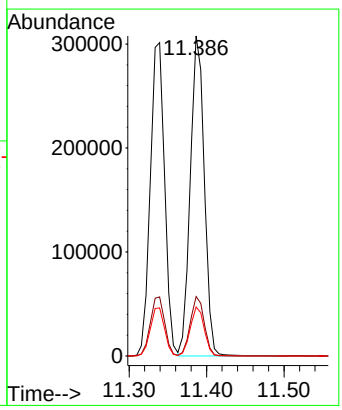
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

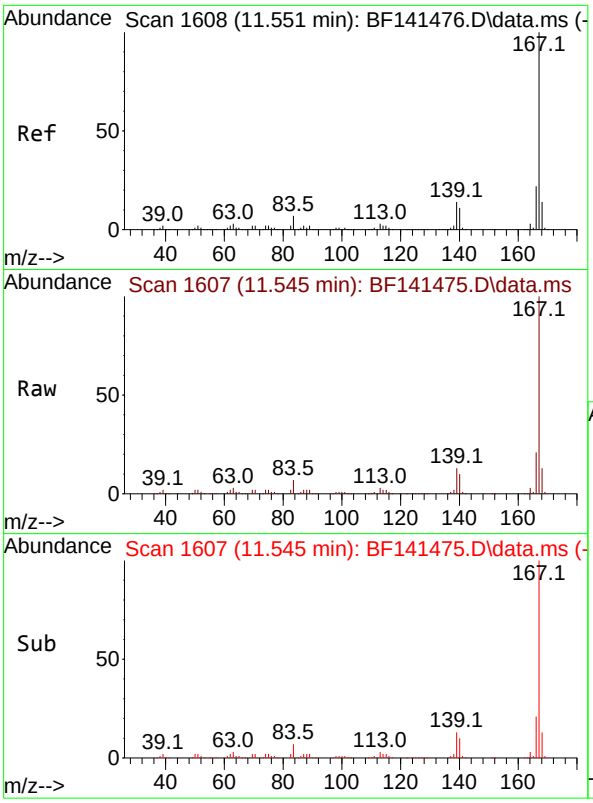


#72
Anthracene
Concen: 20.930 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:178 Resp: 386414

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.8	22.2
179	15.3	12.4	18.6

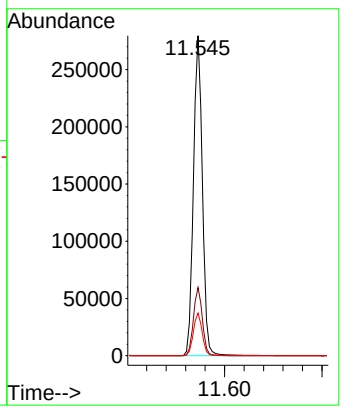




#73
Carbazole
Concen: 21.610 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:167 Resp: 35898

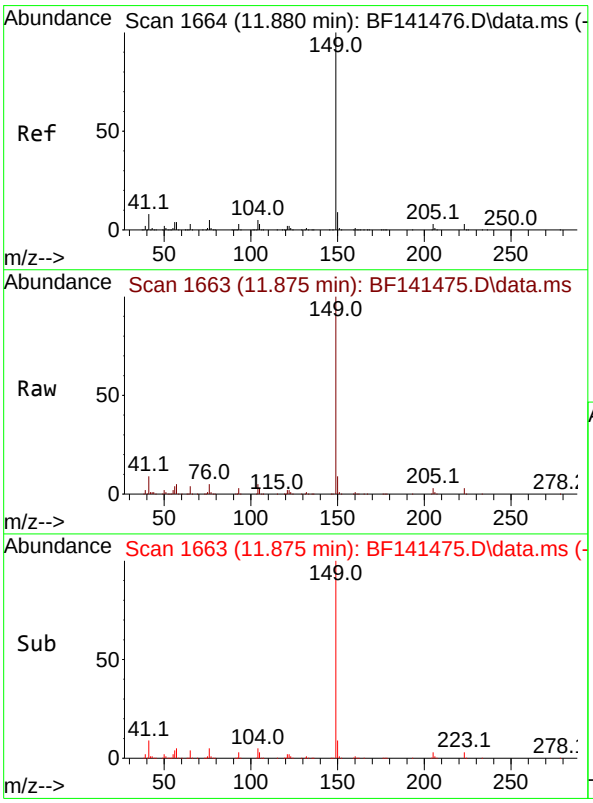
Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.4	26.2
139	13.3	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

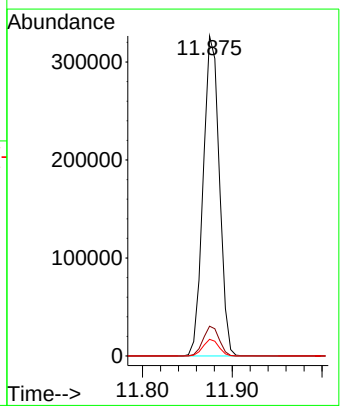
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

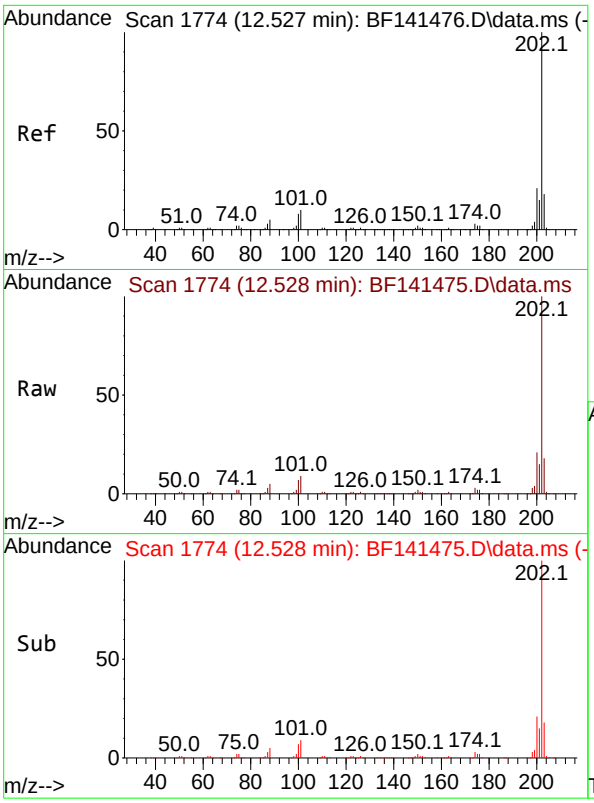


#74
Di-n-butylphthalate
Concen: 21.273 ng
RT: 11.875 min Scan# 1663
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 408041

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.2	4.2	6.2

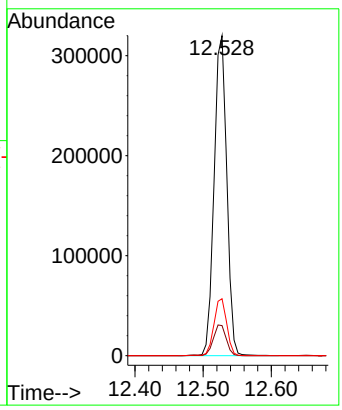




#75
Fluoranthene
Concen: 21.298 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:202 Resp: 41471

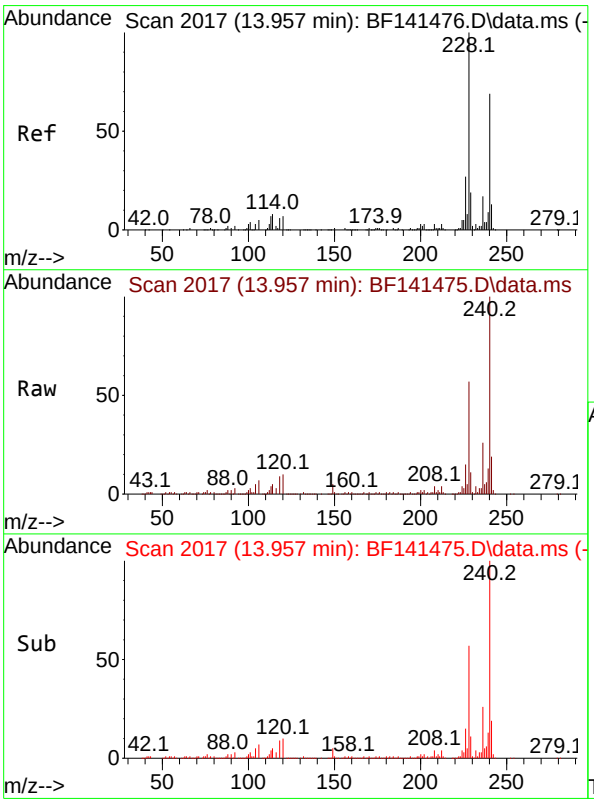
Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	30.2
203	17.8	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

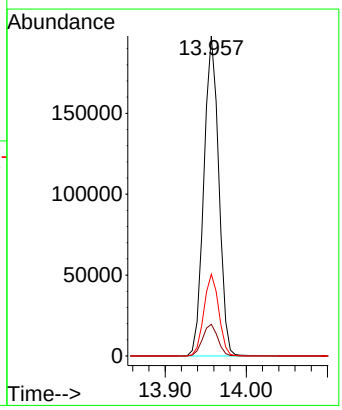
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

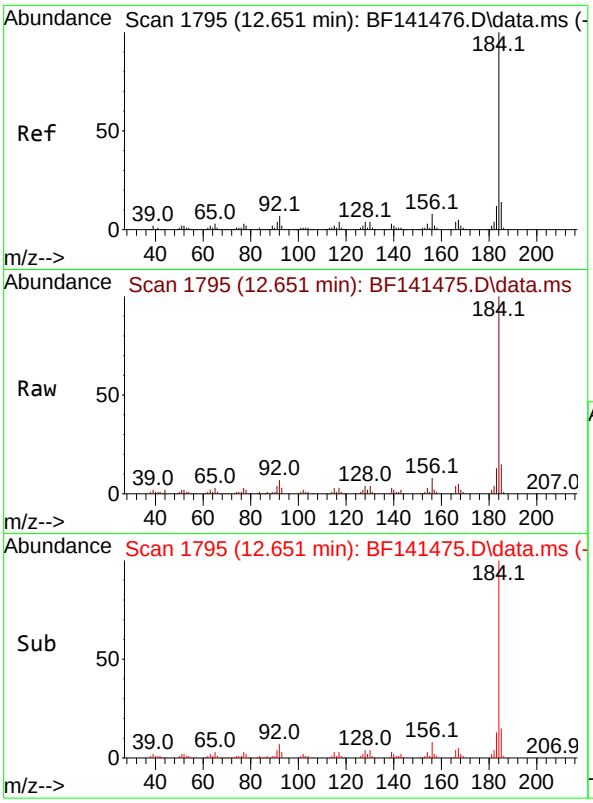


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:240 Resp: 251741

Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.0	12.0
236	25.5	19.8	29.8

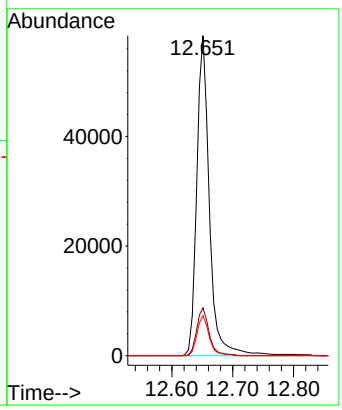




#77
Benzidine
Concen: 15.132 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:184 Resp: 8401

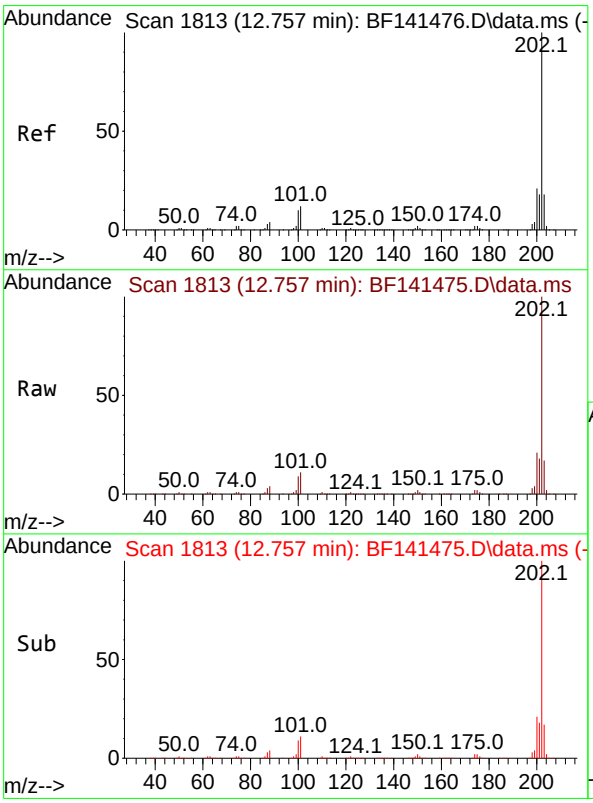
Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.3	16.9
183	12.5	9.3	13.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

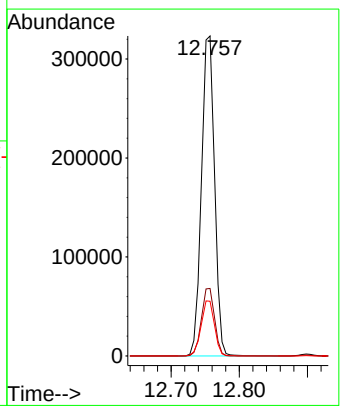
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

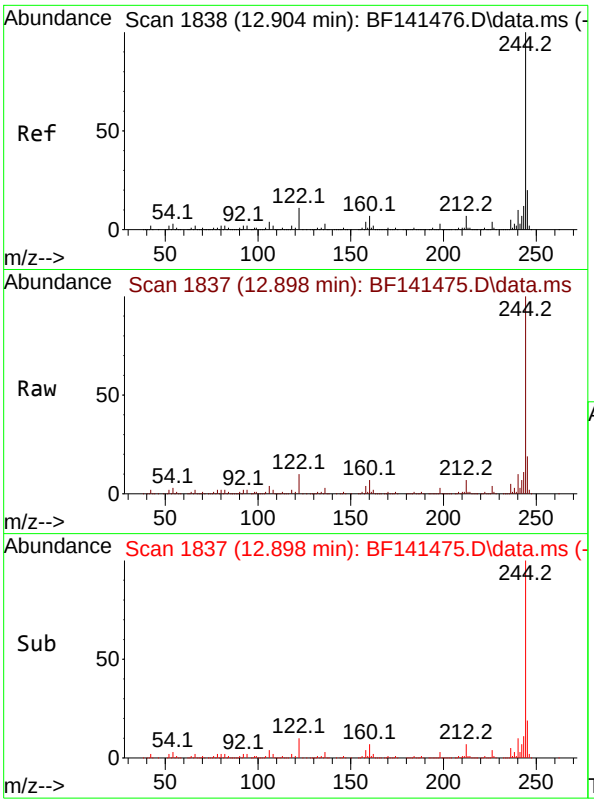


#78
Pyrene
Concen: 20.169 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:202 Resp: 432216

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.1	14.3	21.5

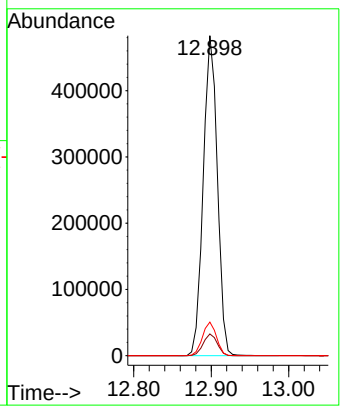




#79
Terphenyl-d14
Concen: 40.894 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:244 Resp: 60981

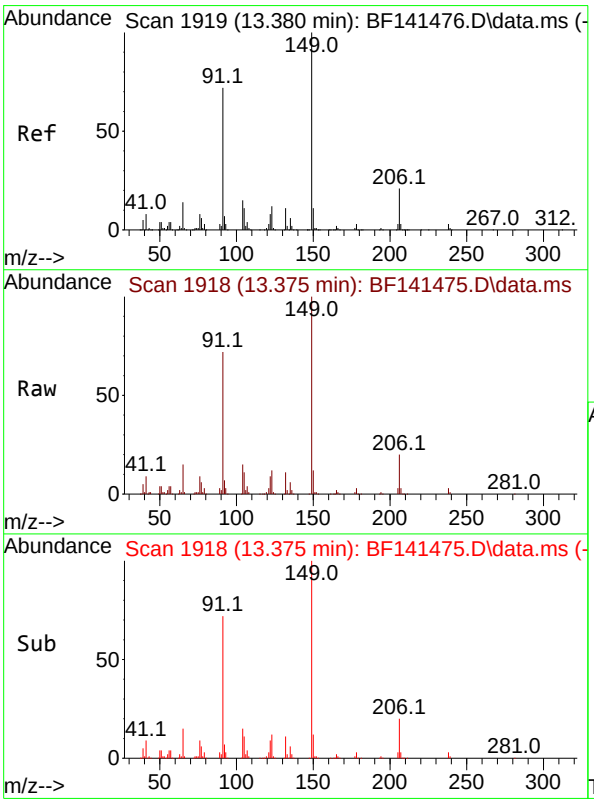
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.5	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

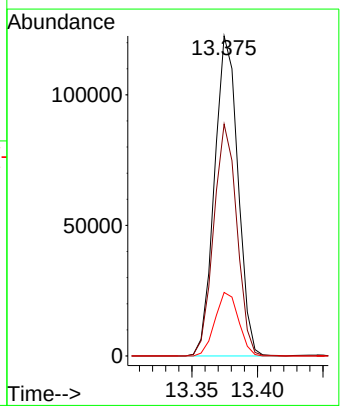
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

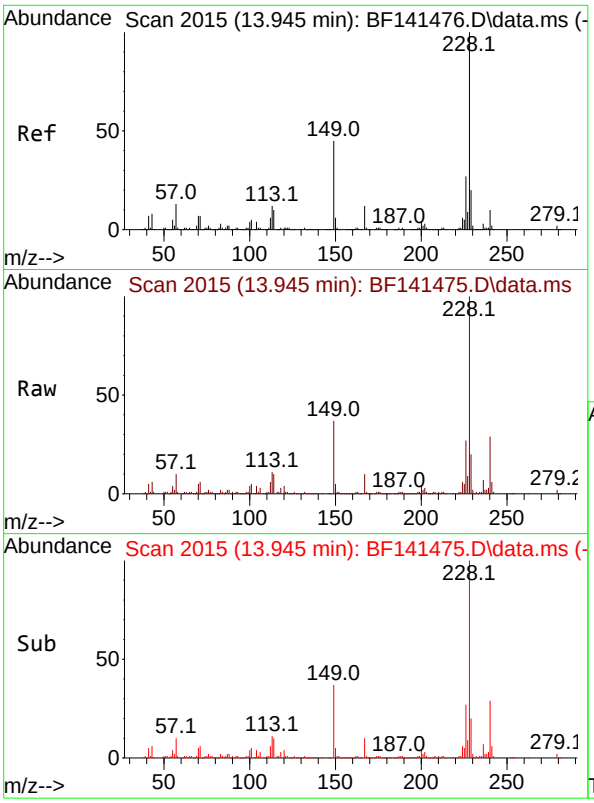


#80
Butylbenzylphthalate
Concen: 20.502 ng
RT: 13.375 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 152184

Ion	Ratio	Lower	Upper
149	100		
91	72.5	57.8	86.8
206	19.8	16.7	25.1

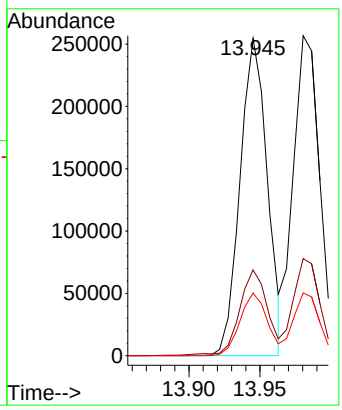




#81
Benzo(a)anthracene
Concen: 20.310 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:228 Resp: 33987

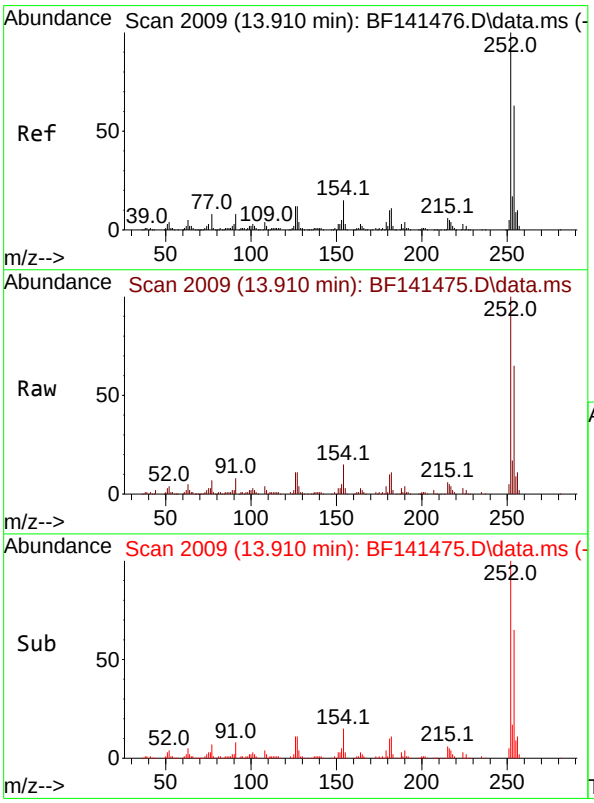
Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.7	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

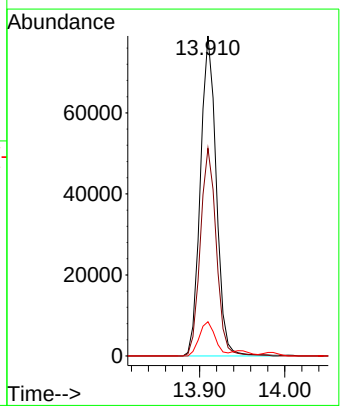
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

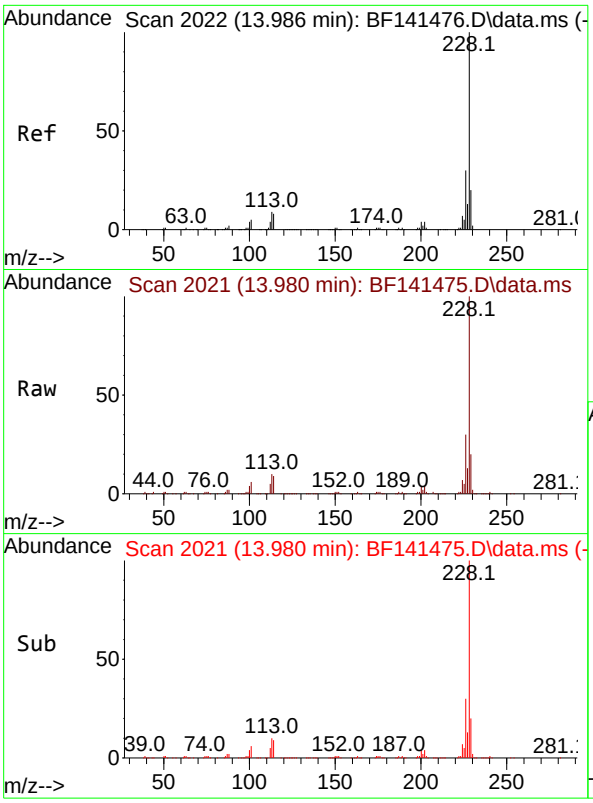


#82
3,3'-Dichlorobenzidine
Concen: 21.355 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 102367

Ion	Ratio	Lower	Upper
252	100		
254	64.9	50.6	76.0
126	10.7	9.3	13.9

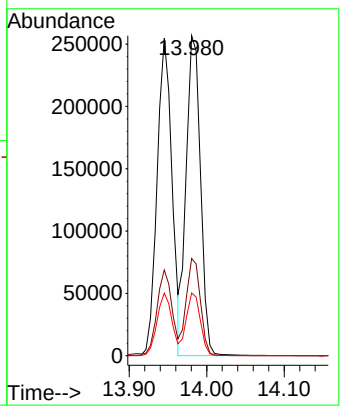




#83
Chrysene
Concen: 21.411 ng
RT: 13.980 min Scan# 2(
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:228 Resp: 33082

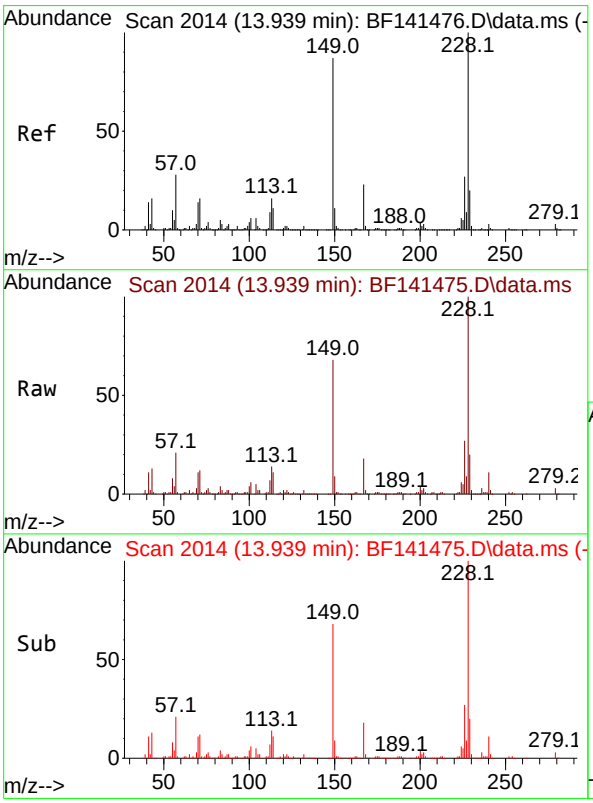
Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.0	36.0
229	19.6	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

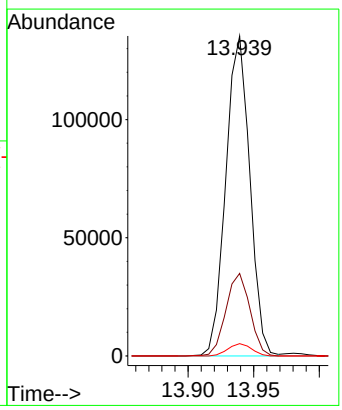
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

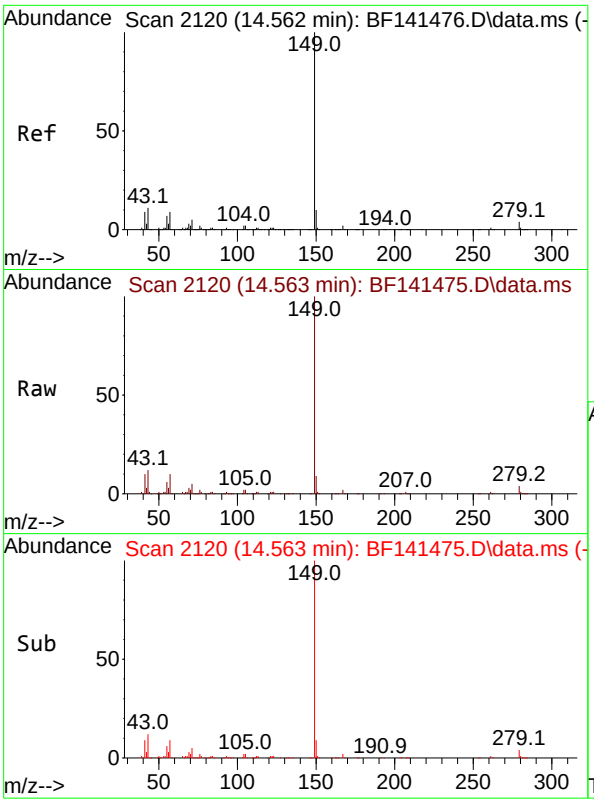


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.588 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 172352

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.4	32.0
279	3.9	3.1	4.7

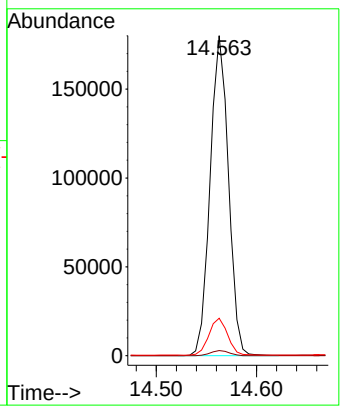




#85
Di-n-octyl phthalate
Concen: 19.180 ng
RT: 14.563 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 22906

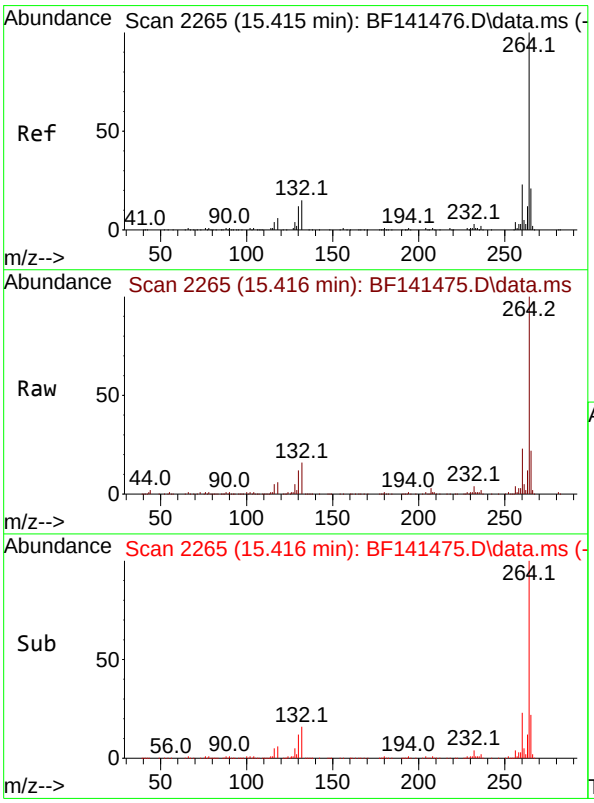
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.7	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

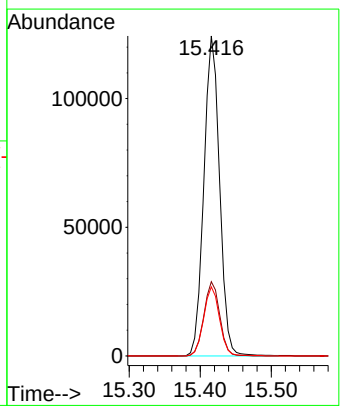
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

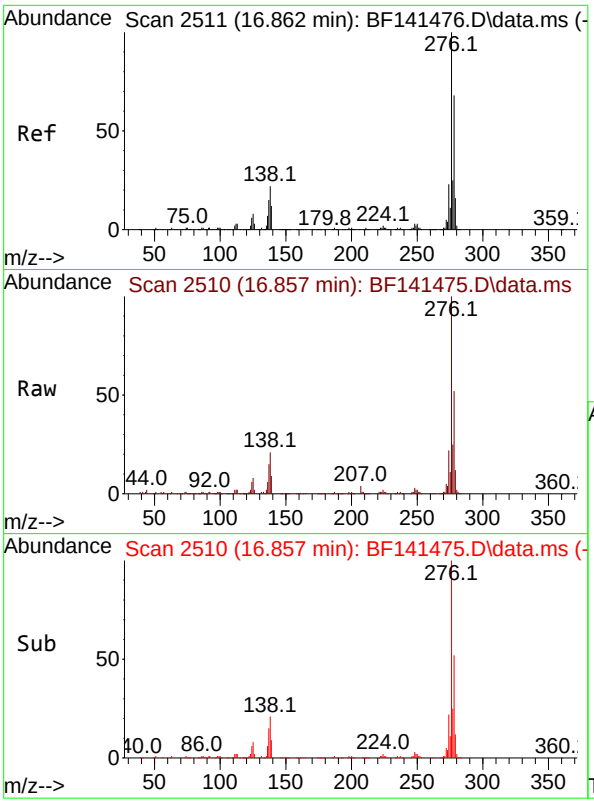


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.416 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:264 Resp: 191435

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.6	17.0	25.4

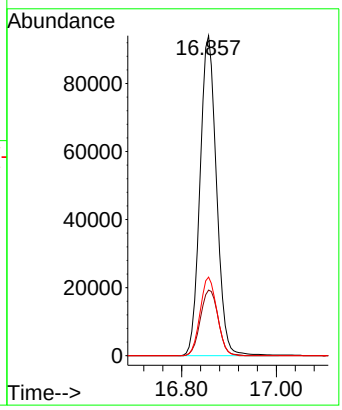




#87
Indeno(1,2,3-cd)pyrene
Concen: 19.200 ng
RT: 16.857 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:276 Resp: 22710

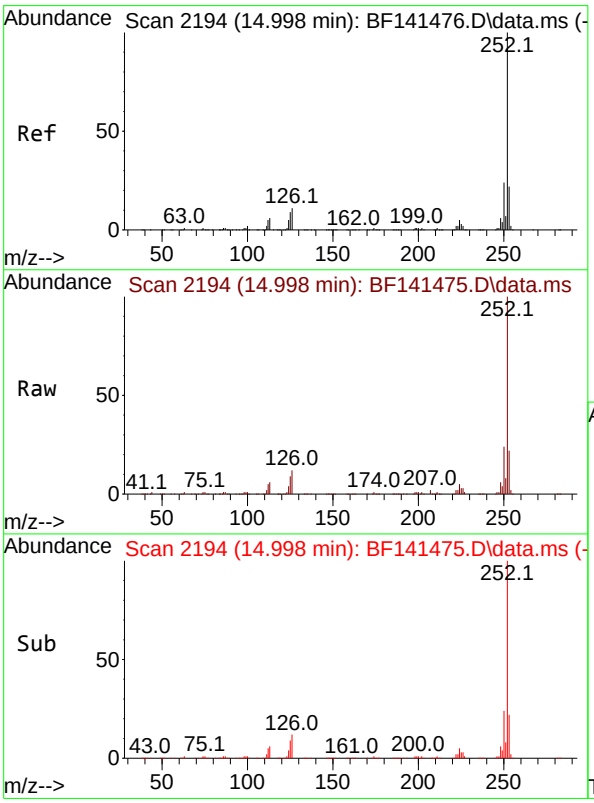
Ion	Ratio	Lower	Upper
276	100		
138	22.1	18.0	27.0
277	25.1	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

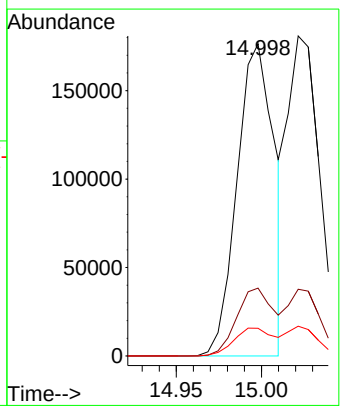
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

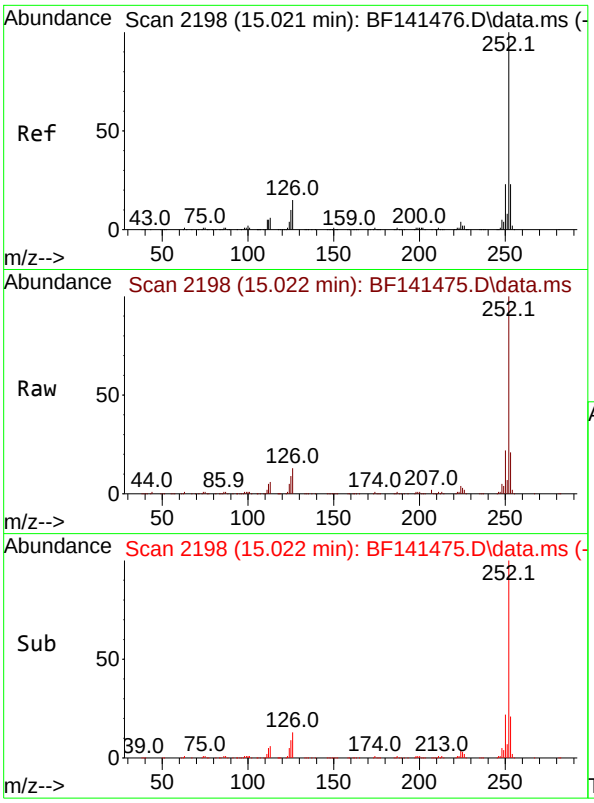


#88
Benzo(b)fluoranthene
Concen: 20.826 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 267695

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	8.9	7.0	10.6

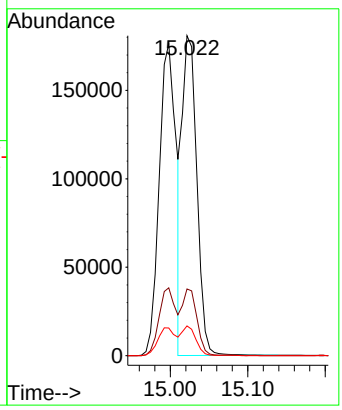




#89
Benzo(k)fluoranthene
Concen: 21.747 ng
RT: 15.022 min Scan# 2
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 23869

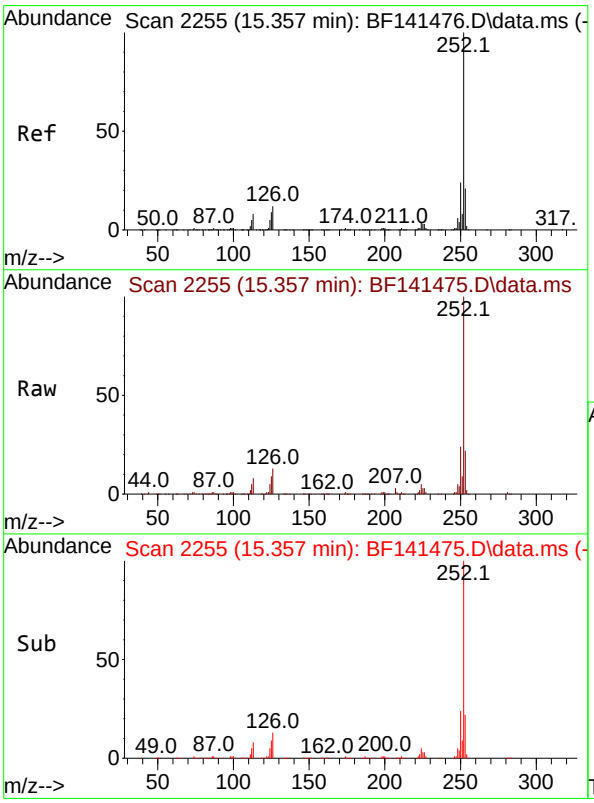
Ion	Ratio	Lower	Upper
252	100		
253	20.9	18.0	27.0
125	9.3	7.4	11.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

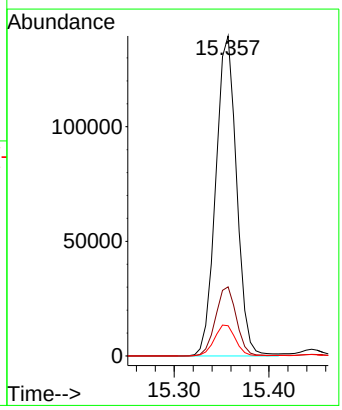
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

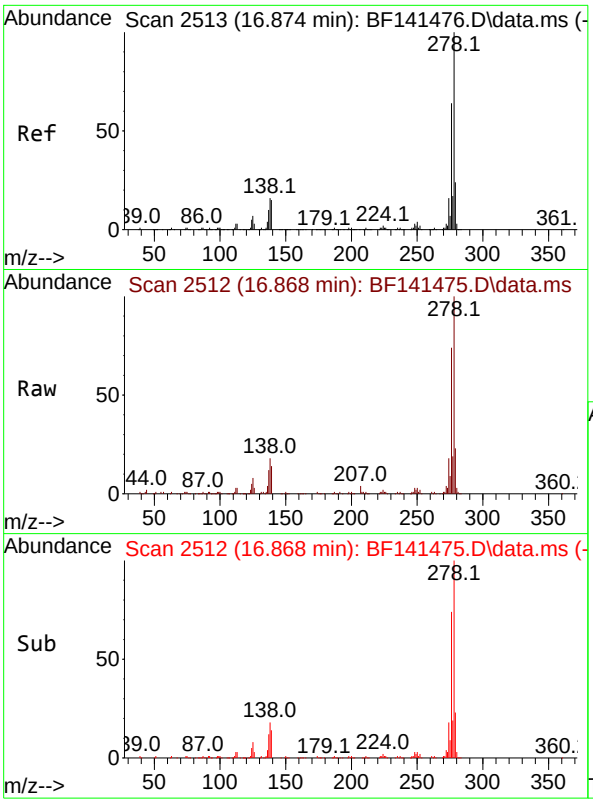


#90
Benzo(a)pyrene
Concen: 20.528 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 213510

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7
125	9.5	7.4	11.2

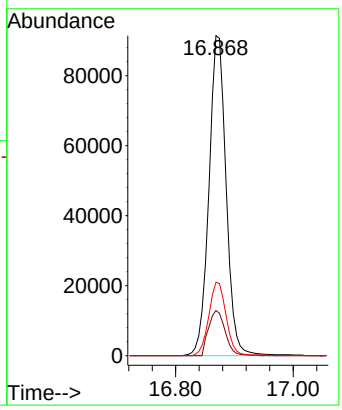




#91
Dibenzo(a,h)anthracene
Concen: 19.379 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:278 Resp: 18574

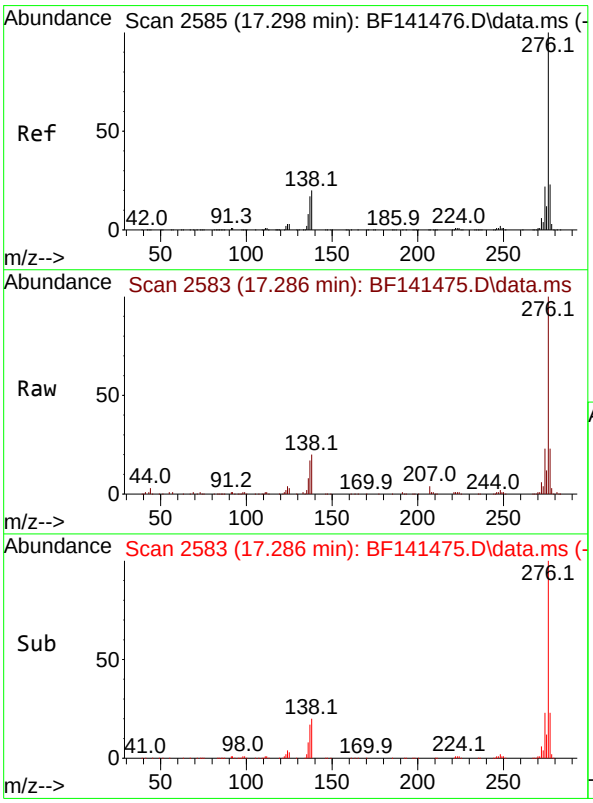
Ion	Ratio	Lower	Upper
278	100		
139	14.1	11.8	17.6
279	23.0	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

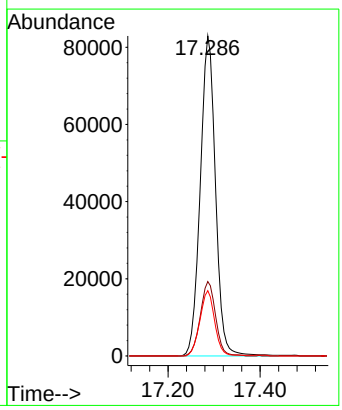
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#92
Benzo(g,h,i)perylene
Concen: 19.103 ng
RT: 17.286 min Scan# 2583
Delta R.T. -0.029 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:276 Resp: 191595

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	20.4	15.9	23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141476.D
Acq On : 06 Feb 2025 12:55
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Feb 06 16:00:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	89095	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	351555	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	193385	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	336425	20.000	ng	0.00
76) Chrysene-d12	13.957	240	225462	20.000	ng	0.00
86) Perylene-d12	15.415	264	182907	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	459422	80.841	ng	0.00
7) Phenol-d6	6.428	99	574808	80.025	ng	-0.01
23) Nitrobenzene-d5	7.357	82	540793	80.234	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	154725	79.647	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	981440	78.189	ng	0.00
79) Terphenyl-d14	12.904	244	1080174	80.879	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.481	88	92090	40.262	ng	100
3) Pyridine	3.210	79	225032	41.344	ng	100
4) n-Nitrosodimethylamine	3.163	42	145802	40.456	ng	100
6) Aniline	6.451	93	274102	40.681	ng	100
8) 2-Chlorophenol	6.581	128	245676	40.008	ng	100
9) Benzaldehyde	6.339	77	146382	38.350	ng	100
10) Phenol	6.445	94	300315	40.171	ng	100
11) bis(2-Chloroethyl)ether	6.528	93	225665	40.188	ng	100
12) 1,3-Dichlorobenzene	6.728	146	256806	39.613	ng	100
13) 1,4-Dichlorobenzene	6.804	146	262121	39.574	ng	100
14) 1,2-Dichlorobenzene	6.963	146	244757	39.814	ng	100
15) Benzyl Alcohol	6.934	79	224961	40.841	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	385739	40.130	ng	100
17) 2-Methylphenol	7.051	107	191970	39.951	ng	100
18) Hexachloroethane	7.298	117	98581	40.215	ng	100
19) n-Nitroso-di-n-propyla...	7.204	70	172712	40.198	ng	100
20) 3+4-Methylphenols	7.204	107	244439	40.024	ng	100
22) Acetophenone	7.198	105	346731	39.649	ng	100
24) Nitrobenzene	7.375	77	263188	40.044	ng	100
25) Isophorone	7.610	82	429323	39.948	ng	100
26) 2-Nitrophenol	7.686	139	135355	41.394	ng	100
27) 2,4-Dimethylphenol	7.728	122	156665	41.012	ng	100
28) bis(2-Chloroethoxy)met...	7.822	93	276730	40.185	ng	100
29) 2,4-Dichlorophenol	7.939	162	208390	40.375	ng	100
30) 1,2,4-Trichlorobenzene	8.016	180	222679	39.619	ng	100
31) Naphthalene	8.092	128	729358	39.856	ng	100
32) Benzoic acid	7.857	122	161196	40.625	ng	100
33) 4-Chloroaniline	8.151	127	255749	40.029	ng	100
34) Hexachlorobutadiene	8.210	225	135140	40.051	ng	100
35) Caprolactam	8.516	113	65155	41.461	ng	100
36) 4-Chloro-3-methylphenol	8.633	107	231344	40.464	ng	100
37) 2-Methylnaphthalene	8.786	142	470332	39.496	ng	100
38) 1-Methylnaphthalene	8.886	142	461189	39.987	ng	100
40) 1,2,4,5-Tetrachloroben...	8.951	216	225938	40.383	ng	100
41) Hexachlorocyclopentadiene	8.939	237	78762	42.325	ng	100
43) 2,4,6-Trichlorophenol	9.063	196	145682	40.288	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141476.D
Acq On : 06 Feb 2025 12:55
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Feb 06 16:00:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

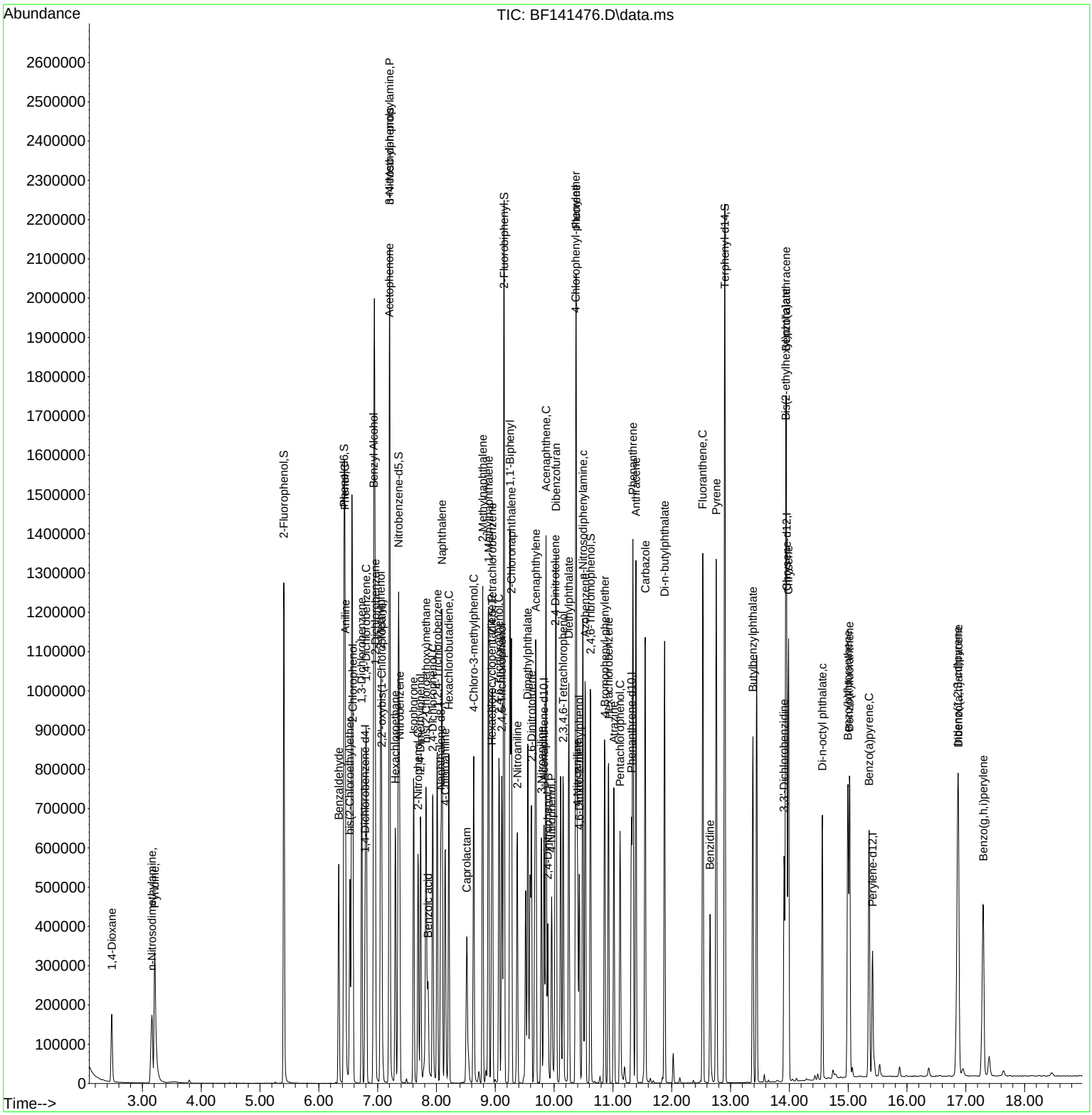
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	158685	40.492	ng	100
46) 1,1'-Biphenyl	9.251	154	597404	39.846	ng	100
47) 2-Chloronaphthalene	9.275	162	438926	39.590	ng	100
48) 2-Nitroaniline	9.375	65	150922	40.563	ng	100
49) Acenaphthylene	9.692	152	656124	39.789	ng	100
50) Dimethylphthalate	9.551	163	520384	39.638	ng	100
51) 2,6-Dinitrotoluene	9.616	165	116338	40.536	ng	100
52) Acenaphthene	9.863	154	445515	40.186	ng	100
53) 3-Nitroaniline	9.786	138	123530	39.991	ng	100
54) 2,4-Dinitrophenol	9.892	184	68489	40.153	ng	100
55) Dibenzofuran	10.033	168	647242	39.775	ng	100
56) 4-Nitrophenol	9.957	139	96456	42.065	ng	100
57) 2,4-Dinitrotoluene	10.022	165	153824	40.262	ng	100
58) Fluorene	10.375	166	498929	39.654	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.157	232	134581	39.888	ng	100
60) Diethylphthalate	10.251	149	514358	39.821	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	240707	39.767	ng	100
62) 4-Nitroaniline	10.398	138	129392	41.253	ng	100
63) Azobenzene	10.527	77	512692	39.926	ng	100
65) 4,6-Dinitro-2-methylph...	10.427	198	95521	40.874	ng	100
66) n-Nitrosodiphenylamine	10.492	169	421937	39.180	ng	100
67) 4-Bromophenyl-phenylether	10.863	248	148603	39.522	ng	100
68) Hexachlorobenzene	10.927	284	152664	39.430	ng	100
69) Atrazine	11.016	200	124494	38.533	ng	100
70) Pentachlorophenol	11.122	266	103806	41.930	ng	100
71) Phenanthrene	11.339	178	729585	39.397	ng	100
72) Anthracene	11.392	178	728337	39.125	ng	100
73) Carbazole	11.551	167	663523	39.613	ng	100
74) Di-n-butylphthalate	11.880	149	767961	39.706	ng	100
75) Fluoranthene	12.527	202	774369	39.441	ng	100
77) Benzidine	12.651	184	238261	47.917	ng	100
78) Pyrene	12.757	202	786956	41.002	ng	100
80) Butylbenzylphthalate	13.380	149	274711	41.323	ng	100
81) Benzo(a)anthracene	13.945	228	606669	40.479	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	170181	39.640	ng	100
83) Chrysene	13.986	228	541376	39.121	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	310696	41.438	ng	100
85) Di-n-octyl phthalate	14.562	149	435142	40.682	ng	100
87) Indeno(1,2,3-cd)pyrene	16.862	276	471272	41.699	ng	100
88) Benzo(b)fluoranthene	14.998	252	488585	39.783	ng	100
89) Benzo(k)fluoranthene	15.021	252	417770	39.836	ng	100
90) Benzo(a)pyrene	15.357	252	395193	39.767	ng	100
91) Dibenzo(a,h)anthracene	16.874	278	384623	42.001	ng	100
92) Benzo(g,h,i)perylene	17.298	276	402413	41.992	ng	100

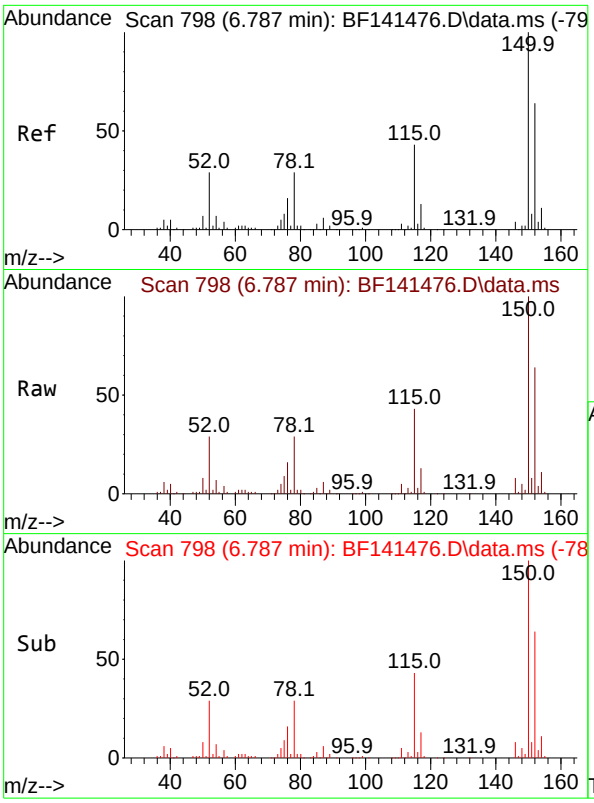
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141476.D
Acq On : 06 Feb 2025 12:55
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Feb 06 16:00:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



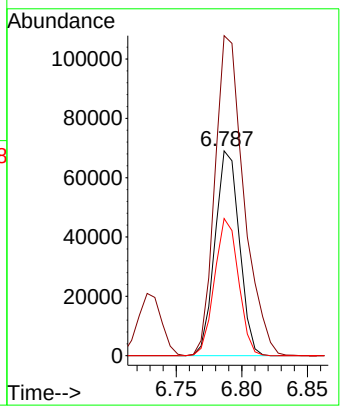


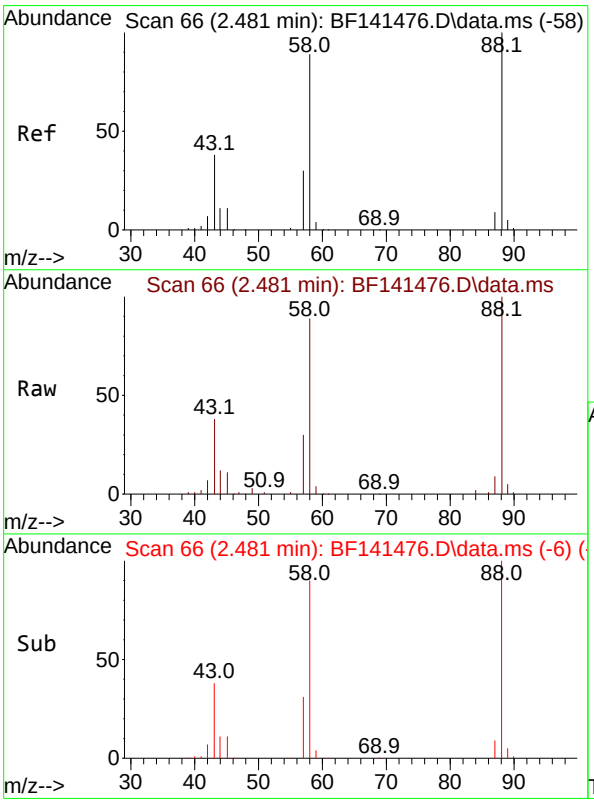
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 89095

Ion	Ratio	Lower	Upper
152	100		
150	156.2	125.0	187.4
115	67.0	53.6	80.4

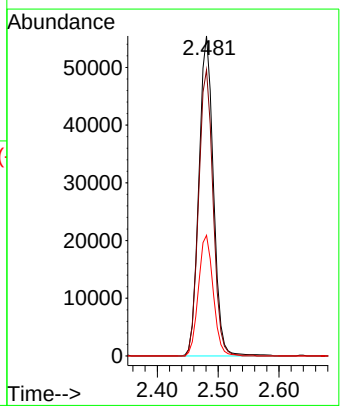


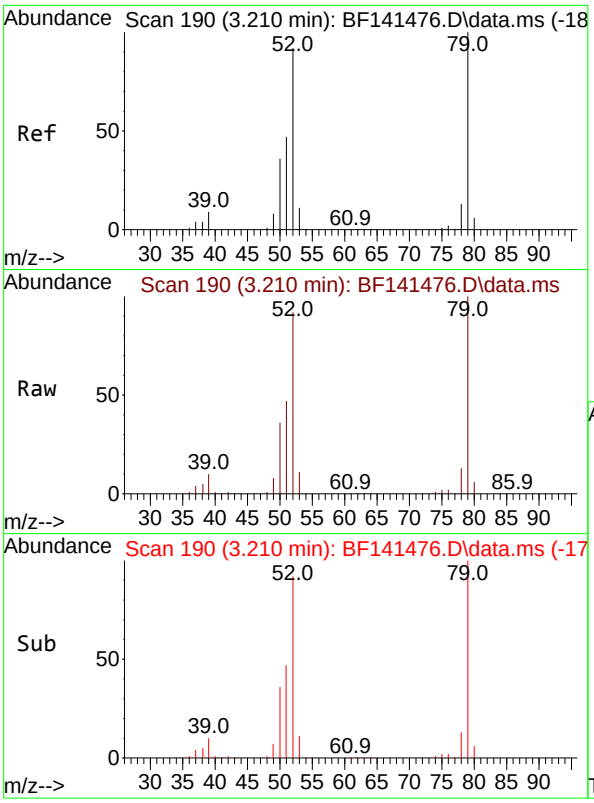


#2
1,4-Dioxane
Concen: 40.262 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 88 Resp: 92090

Ion	Ratio	Lower	Upper
88	100		
58	88.9	71.1	106.7
43	38.3	30.6	46.0



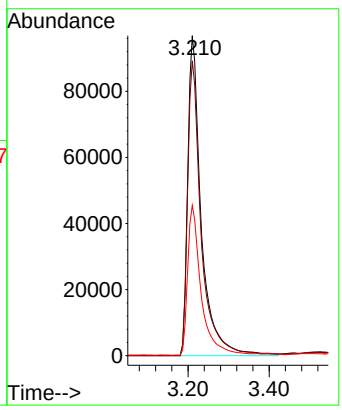


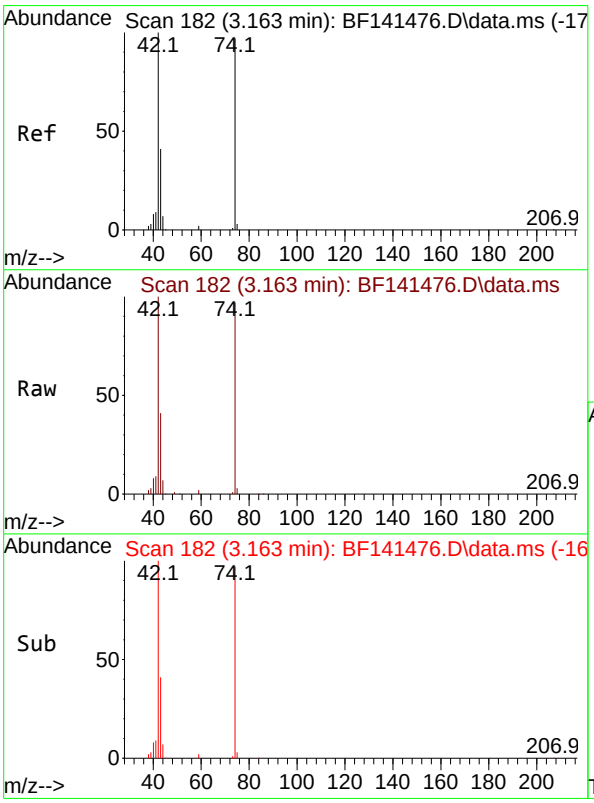
#3
Pyridine
Concen: 41.344 ng
RT: 3.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 225032

Ion	Ratio	Lower	Upper
79	100		
52	92.1	73.7	110.5
51	46.9	37.5	56.3

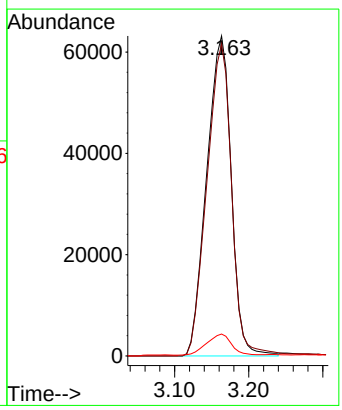


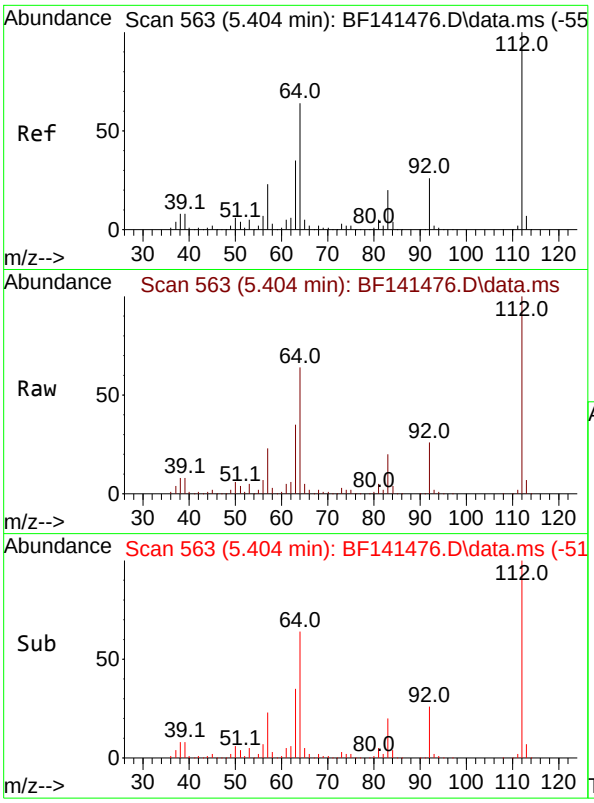


#4
n-Nitrosodimethylamine
Concen: 40.456 ng
RT: 3.163 min Scan# 182
Delta R.T. -0.023 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 42 Resp: 145802

Ion	Ratio	Lower	Upper
42	100		
74	97.5	78.0	117.0
44	6.8	5.4	8.2



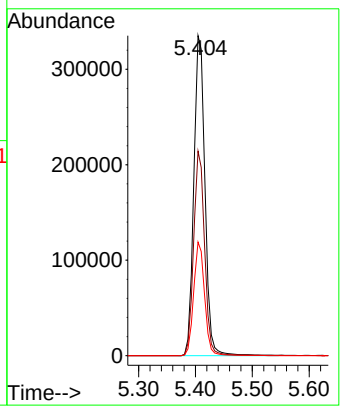


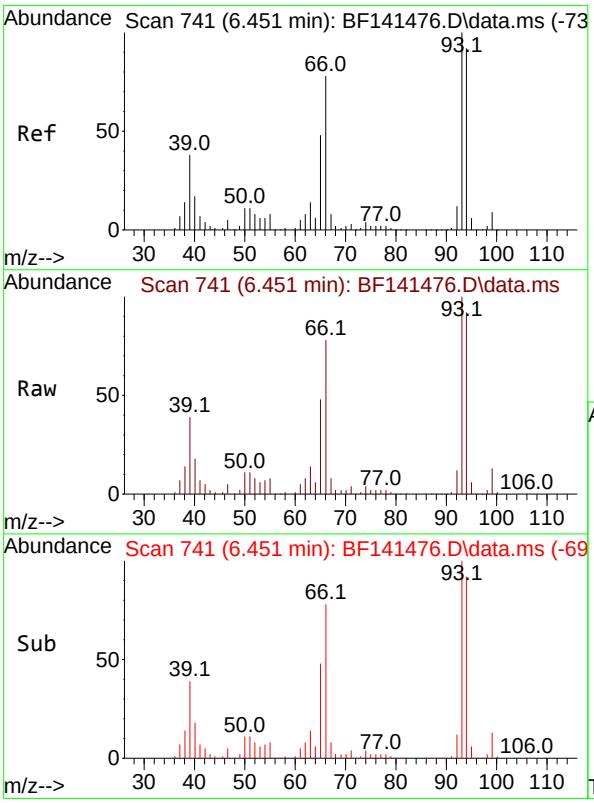
#5
2-Fluorophenol
Concen: 80.841 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 459422

Ion	Ratio	Lower	Upper
112	100		
64	63.9	51.1	76.7
63	35.5	28.4	42.6

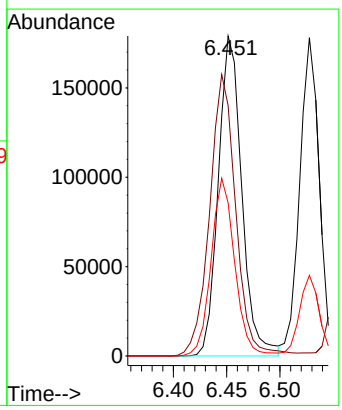


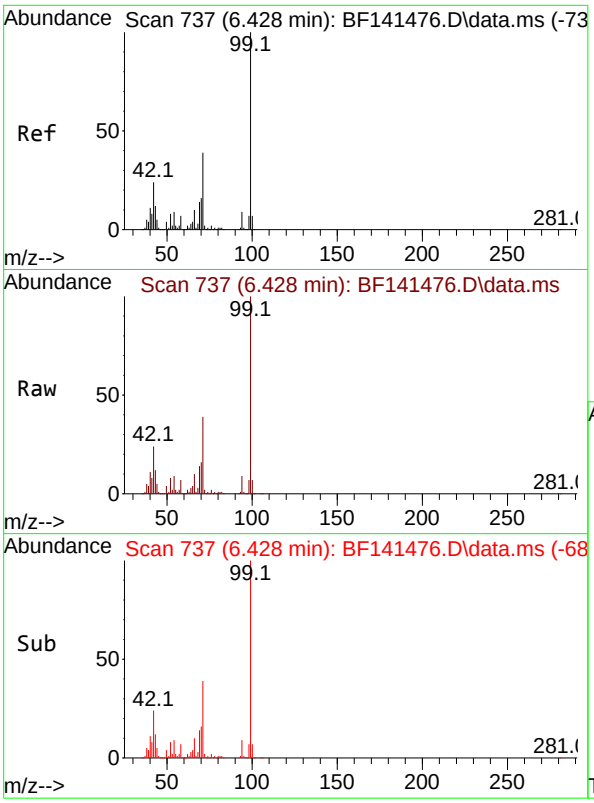


#6
Aniline
Concen: 40.681 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 93 Resp: 274102

Ion	Ratio	Lower	Upper
93	100		
66	78.3	62.6	94.0
65	47.9	38.3	57.5



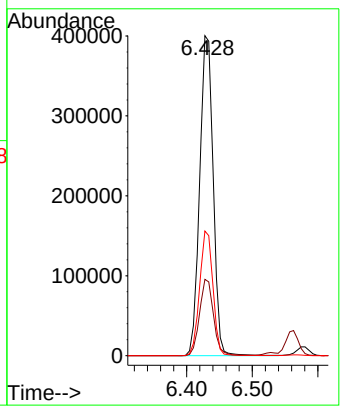


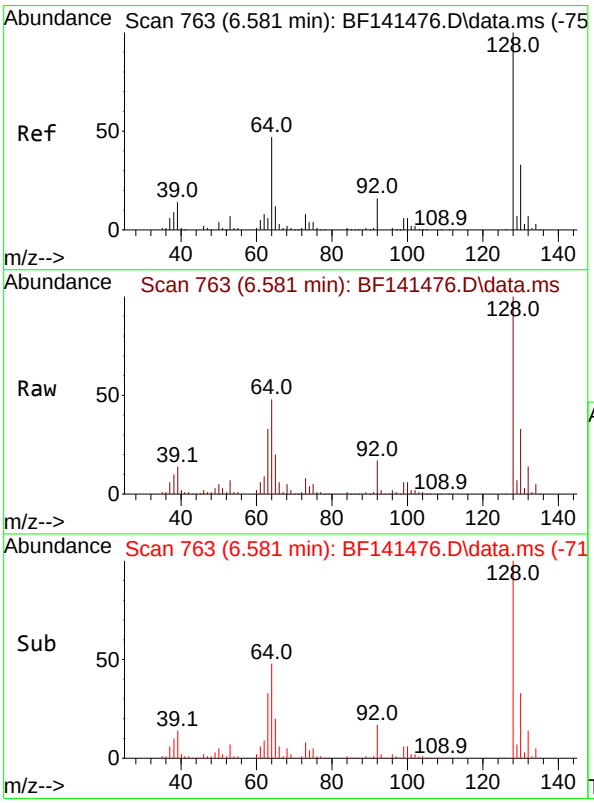
#7
Phenol-d6
Concen: 80.025 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 574808

Ion	Ratio	Lower	Upper
99	100		
42	23.9	19.1	28.7
71	38.9	31.1	46.7

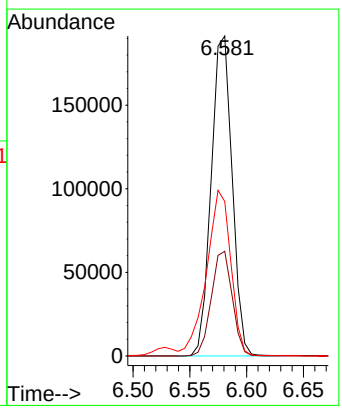


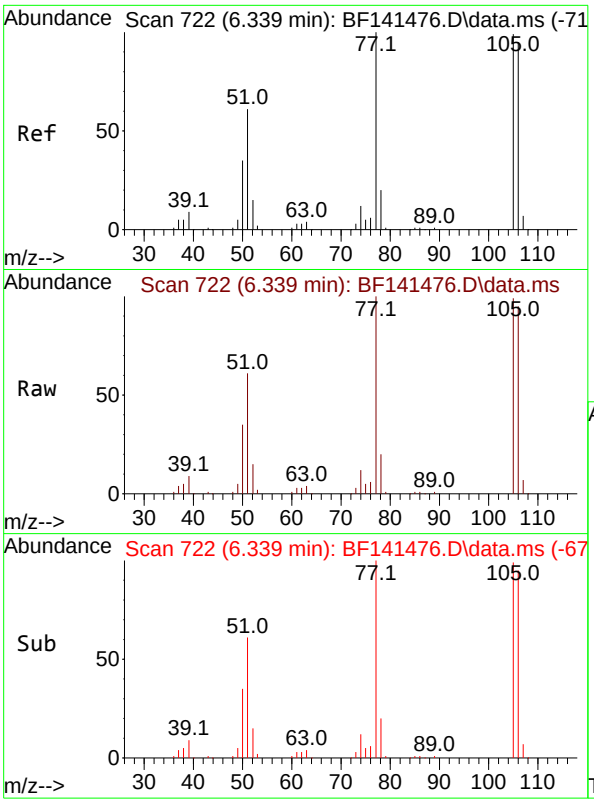


#8
2-Chlorophenol
Concen: 40.008 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:128 Resp: 245676

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.7	52.7
64	48.3	28.3	68.3



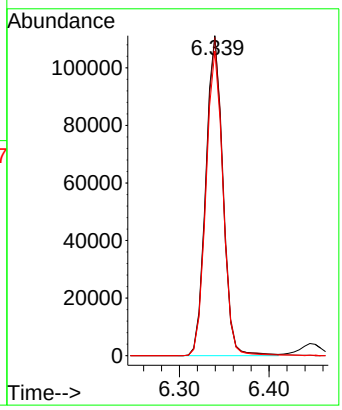


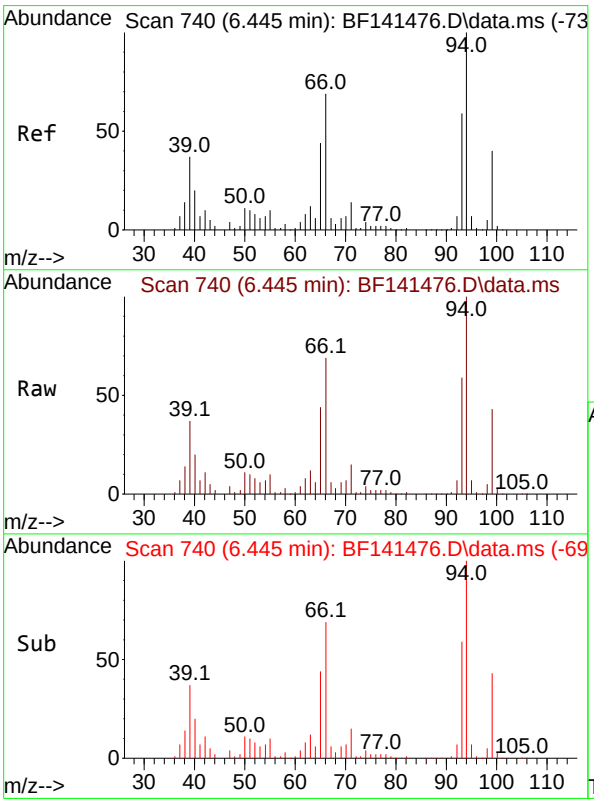
#9
Benzaldehyde
Concen: 38.350 ng
RT: 6.339 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 146382

Ion	Ratio	Lower	Upper
77	100		
105	99.4	79.4	119.4
106	95.1	75.1	115.1

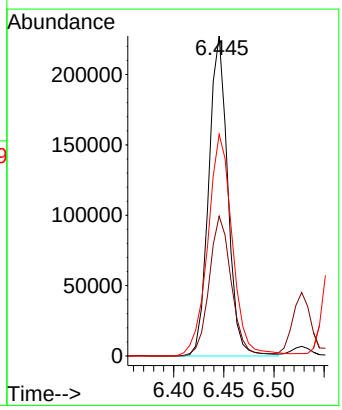


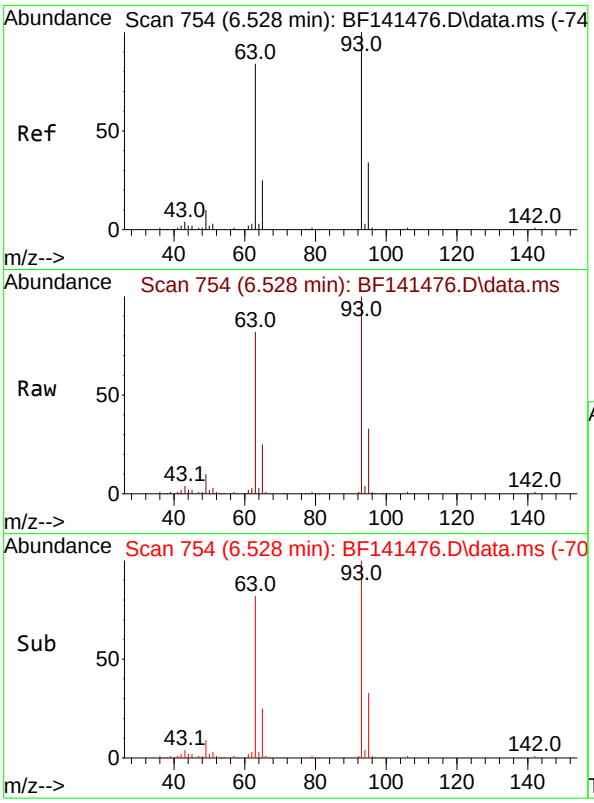


#10
Phenol
Concen: 40.171 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 94 Resp: 300315

Ion	Ratio	Lower	Upper
94	100		
65	43.7	23.7	63.7
66	69.3	49.3	89.3



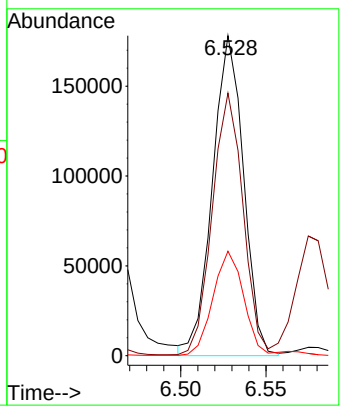


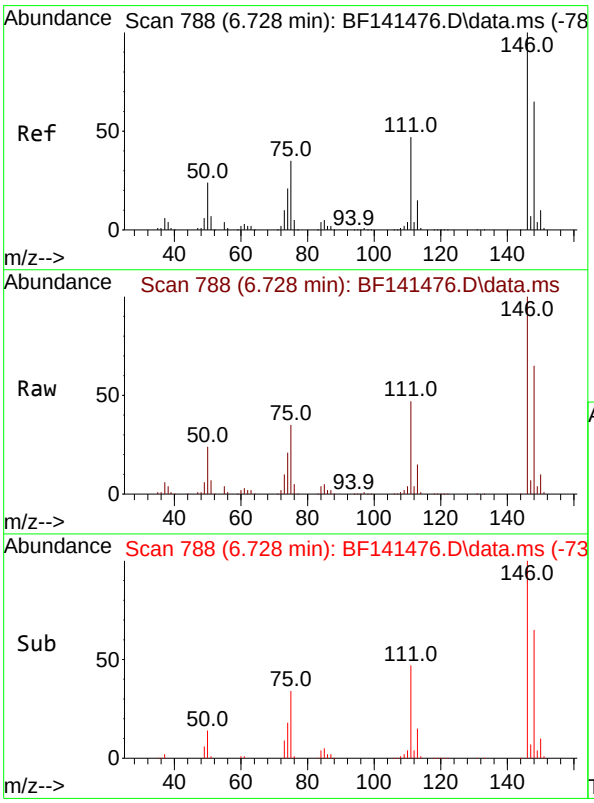
#11
bis(2-Chloroethyl)ether
Concen: 40.188 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 225665

Ion	Ratio	Lower	Upper
93	100		
63	82.0	62.0	102.0
95	32.6	12.6	52.6

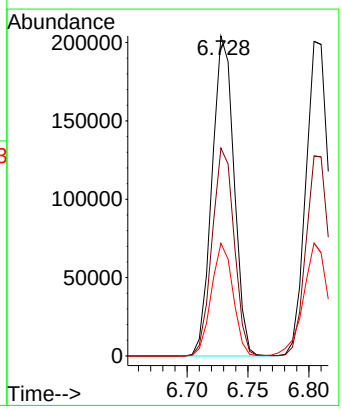


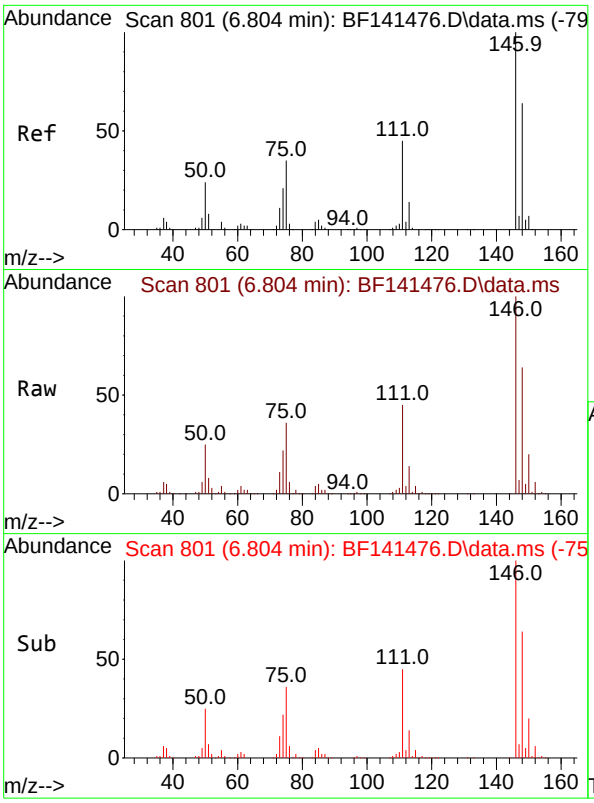


#12
1,3-Dichlorobenzene
Concen: 39.613 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:146 Resp: 256806

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.9	77.9
75	35.2	28.2	42.2



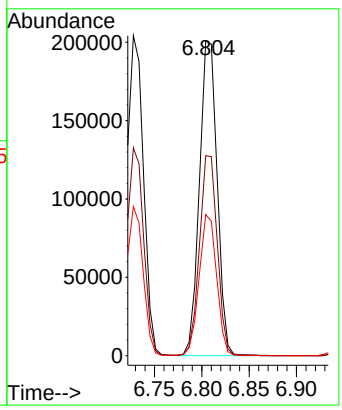


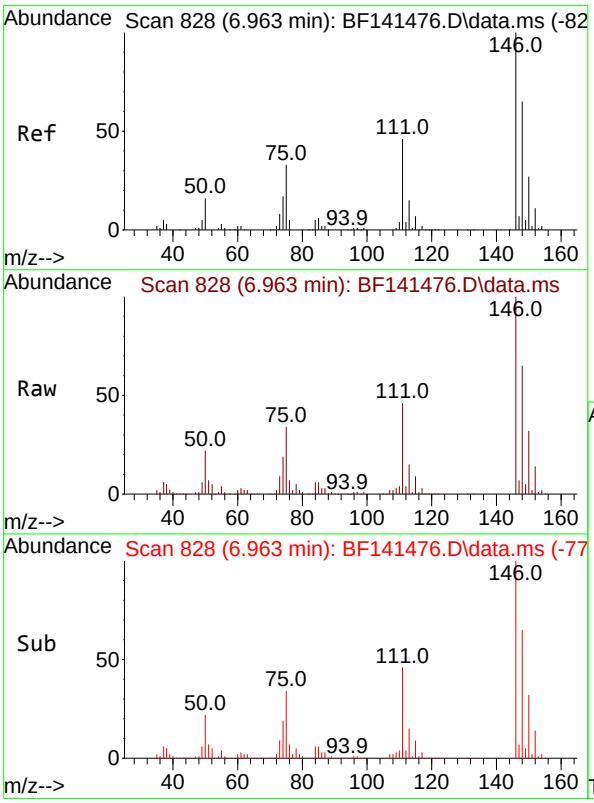
#13
1,4-Dichlorobenzene
Concen: 39.574 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 262121

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.9	76.3
111	44.9	35.9	53.9

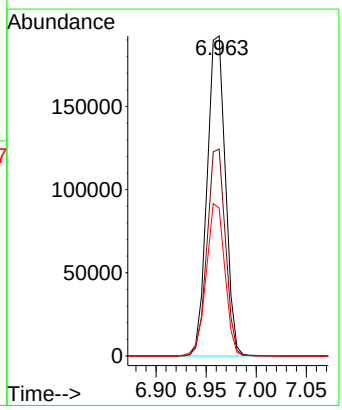


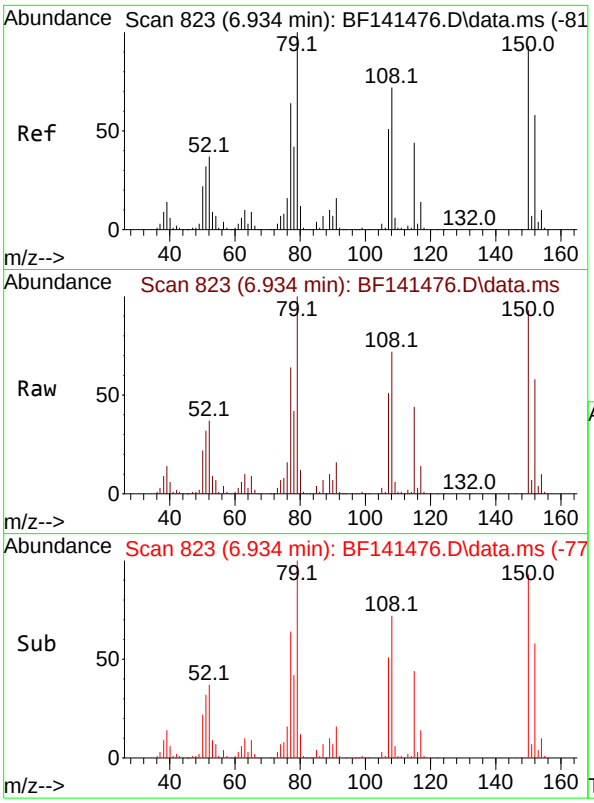


#14
1,2-Dichlorobenzene
Concen: 39.814 ng
RT: 6.963 min Scan# 828
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:146 Resp: 244757

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.8	77.6
111	46.2	37.0	55.4



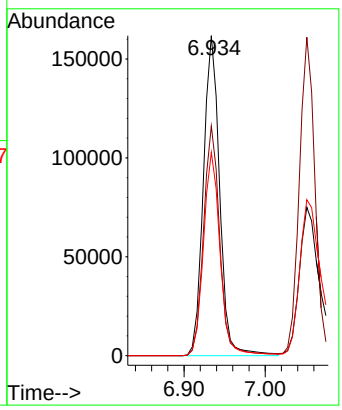


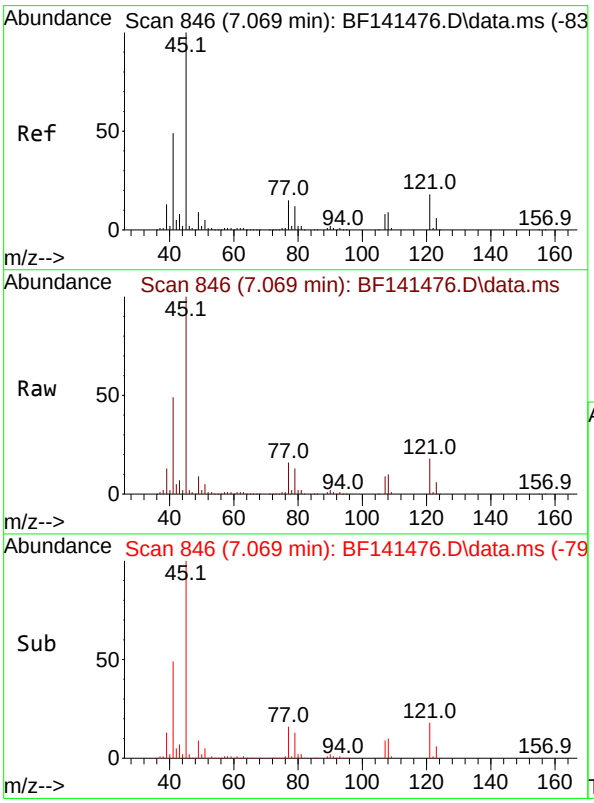
#15
Benzyl Alcohol
Concen: 40.841 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 224961

Ion	Ratio	Lower	Upper
79	100		
108	71.8	57.4	86.2
77	63.6	50.9	76.3

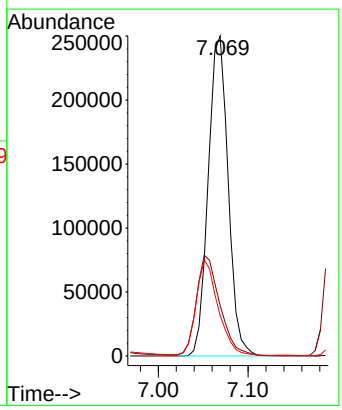


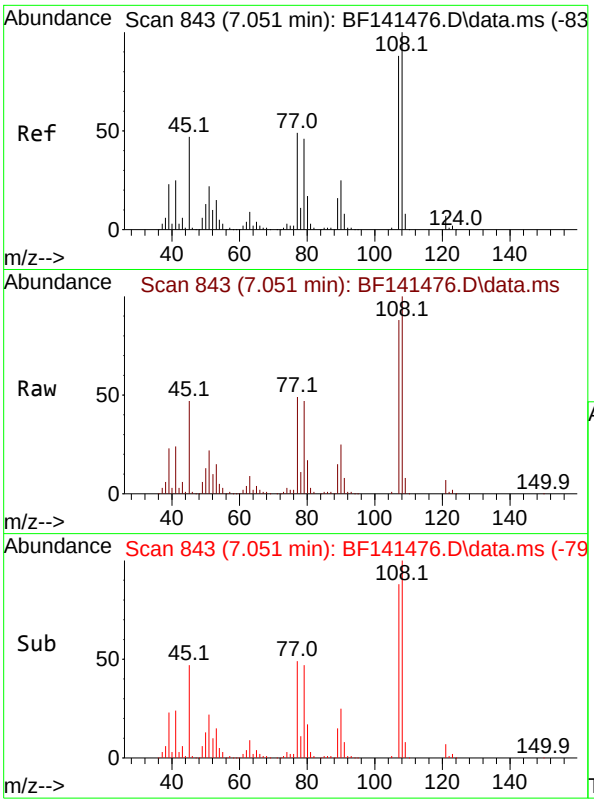


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.130 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 45 Resp: 385739

Ion	Ratio	Lower	Upper
45	100		
77	15.8	0.0	35.8
79	12.7	0.0	32.7



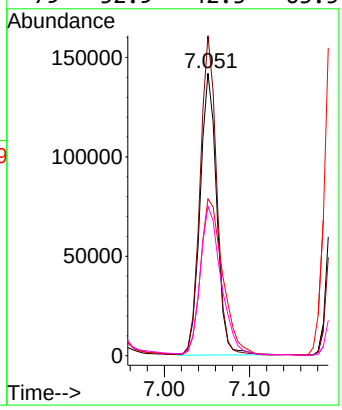


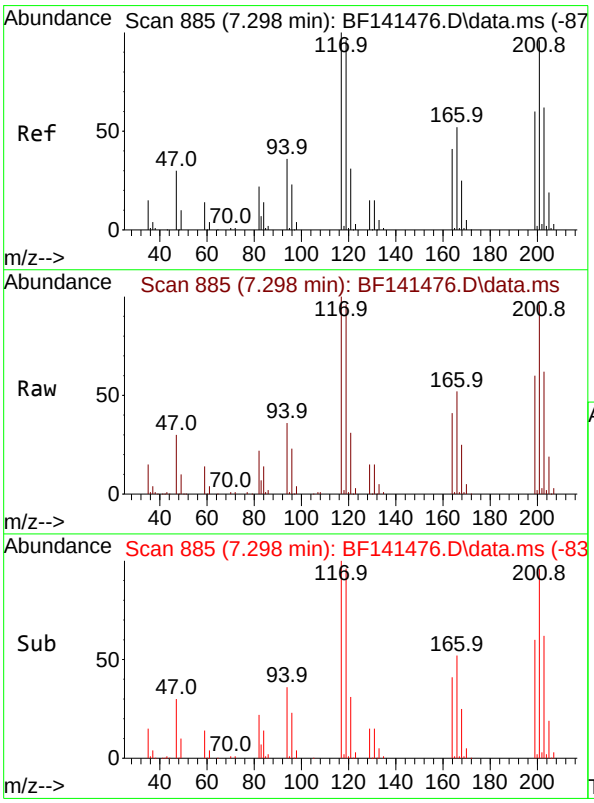
#17
2-Methylphenol
Concen: 39.951 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 191970

Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.6	136.0
77	55.5	44.4	66.6
79	52.9	42.3	63.5

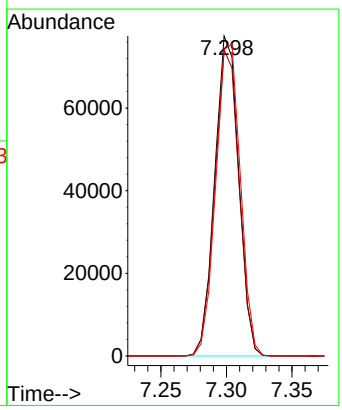


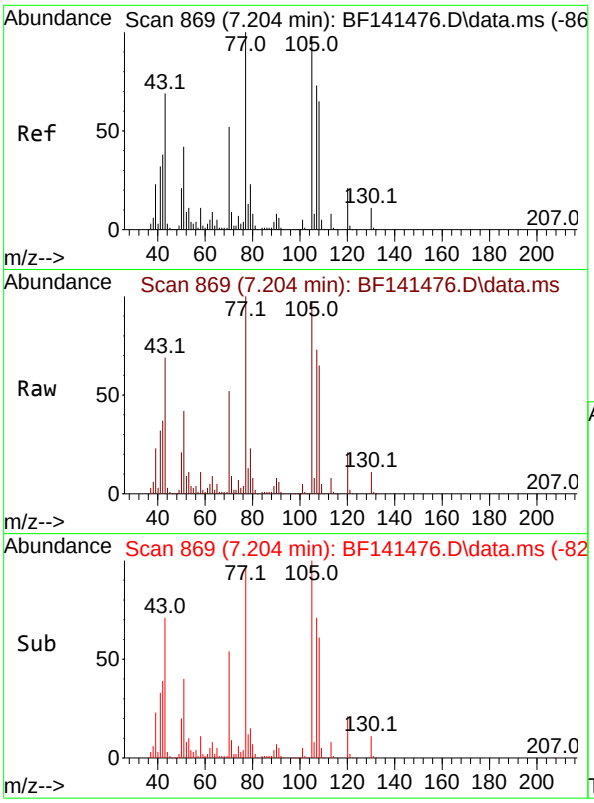


#18
Hexachloroethane
Concen: 40.215 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:117 Resp: 98581

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.5	114.7
201	95.9	76.7	115.1



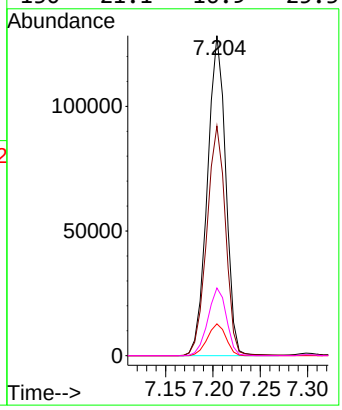


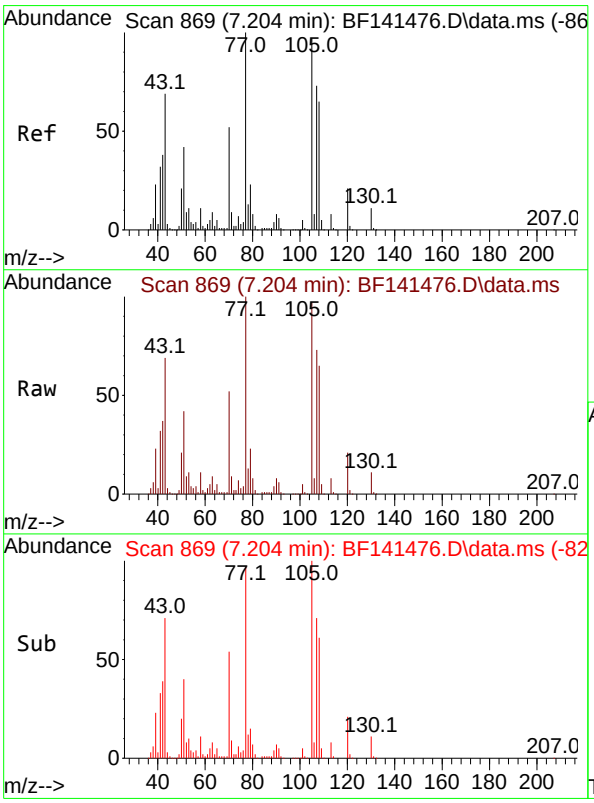
#19
n-Nitroso-di-n-propylamine
Concen: 40.198 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 172712

Ion	Ratio	Lower	Upper
70	100		
42	71.8	57.4	86.2
101	10.0	8.0	12.0
130	21.1	16.9	25.3

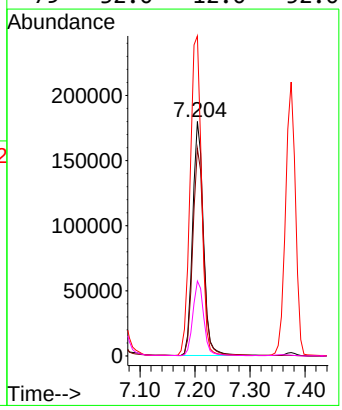


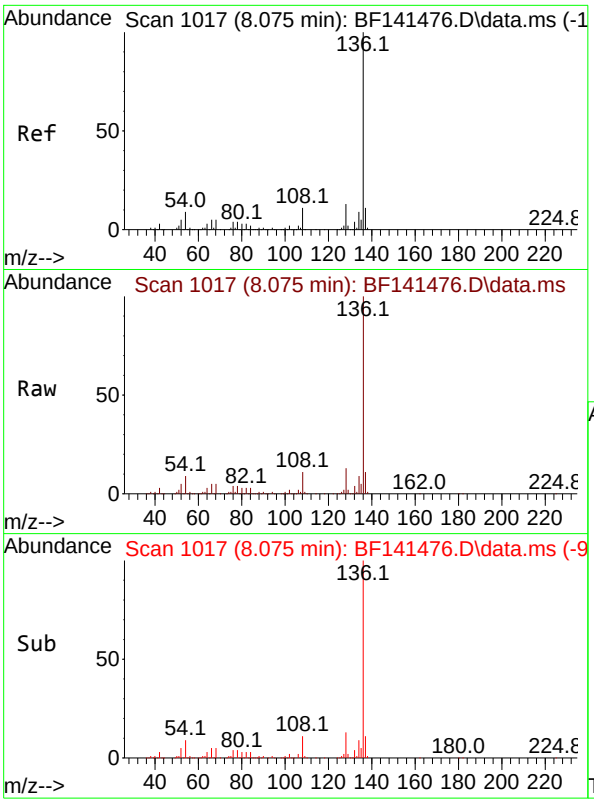


#20
3+4-Methylphenols
Concen: 40.024 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:107 Resp: 244439

Ion	Ratio	Lower	Upper
107	100		
108	88.5	68.5	108.5
77	136.5	116.5	156.5
79	32.0	12.0	52.0



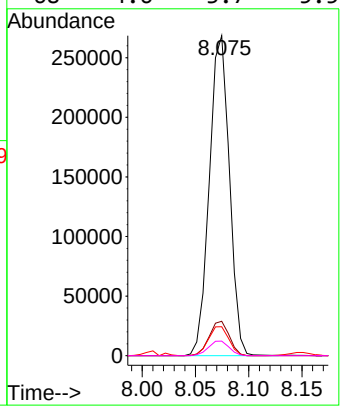


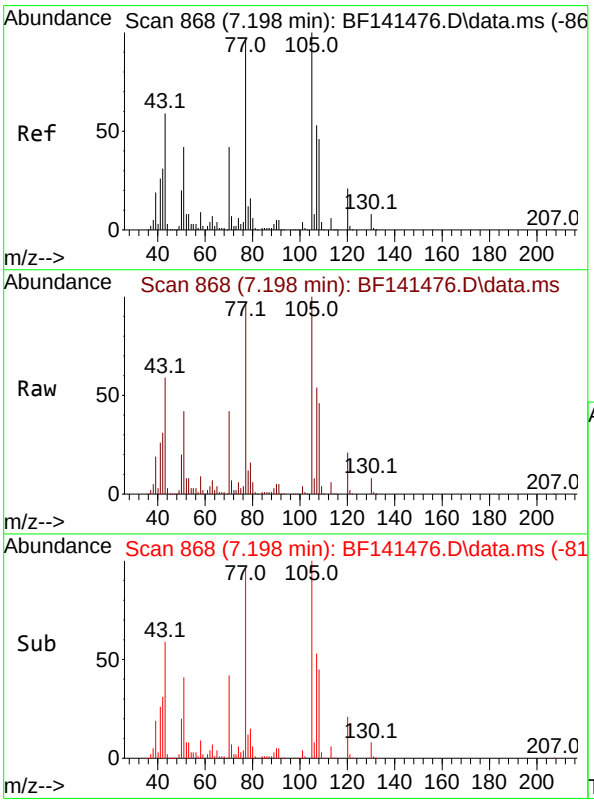
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 351555

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.0	7.2	10.8
68	4.6	3.7	5.5

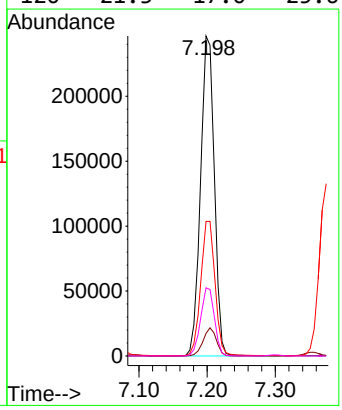


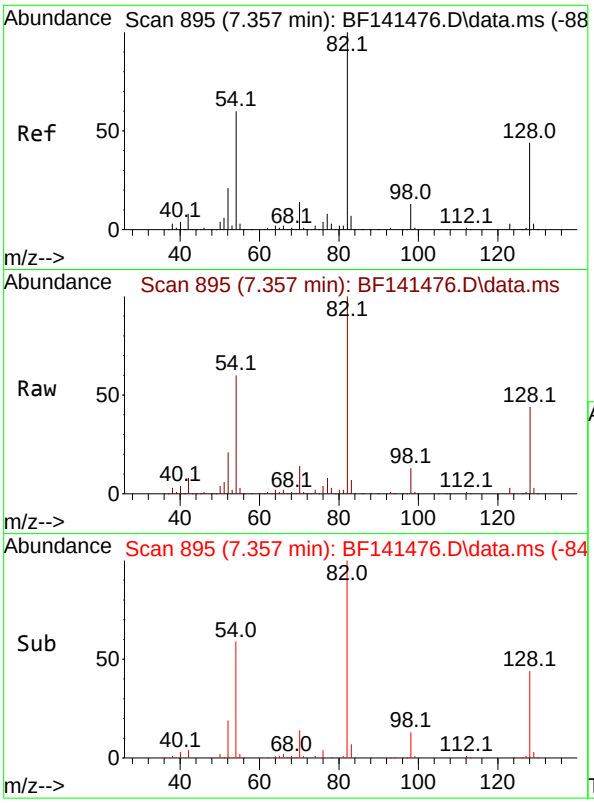


#22
Acetophenone
Concen: 39.649 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:105 Resp: 346731

Ion	Ratio	Lower	Upper
105	100		
71	7.1	5.7	8.5
51	42.1	33.7	50.5
120	21.3	17.0	25.6



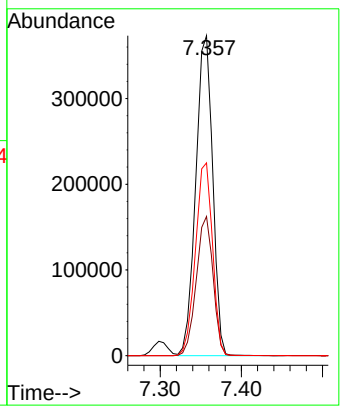


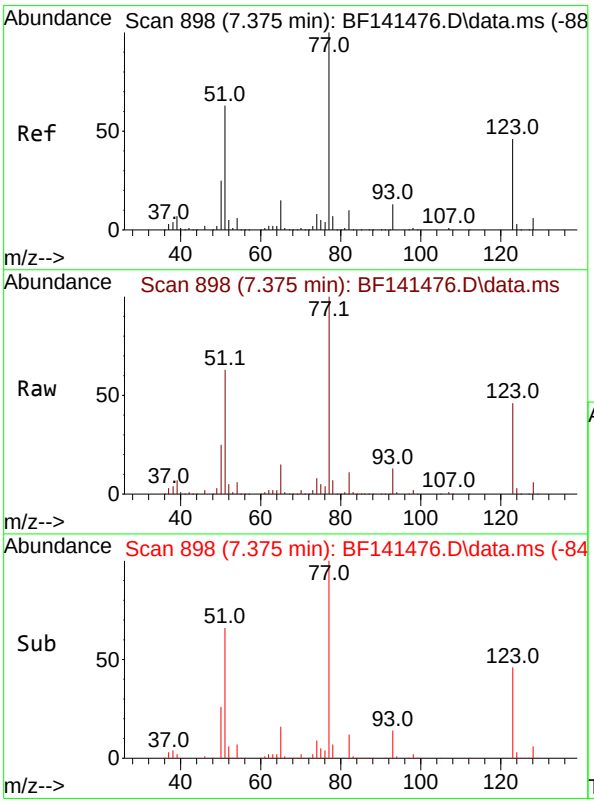
#23
Nitrobenzene-d5
Concen: 80.234 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 540793

Ion	Ratio	Lower	Upper
82	100		
128	43.5	34.8	52.2
54	60.3	48.2	72.4

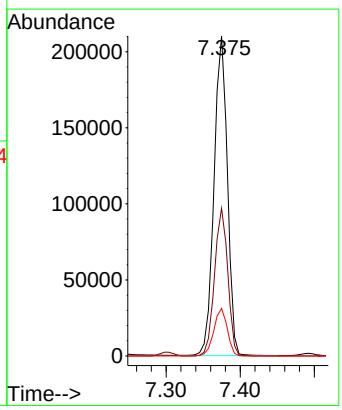


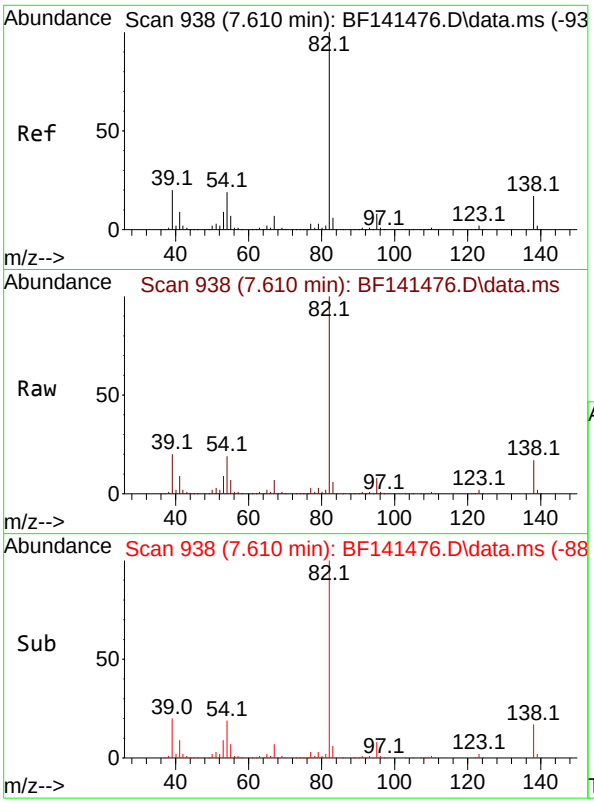


#24
Nitrobenzene
Concen: 40.044 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 77 Resp: 263188

Ion	Ratio	Lower	Upper
77	100		
123	46.1	36.9	55.3
65	14.9	11.9	17.9



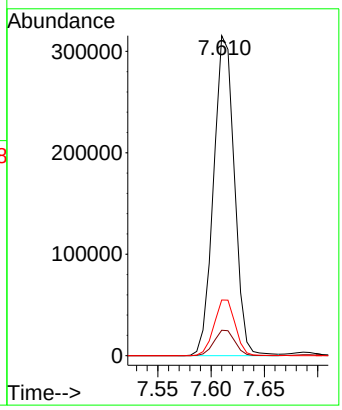


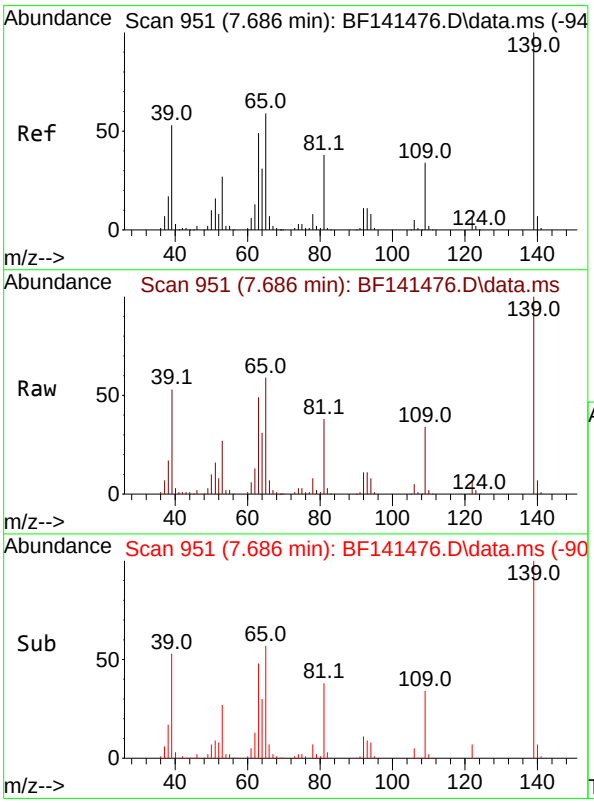
#25
Isophorone
Concen: 39.948 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 429323

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.4	9.6
138	17.4	13.9	20.9

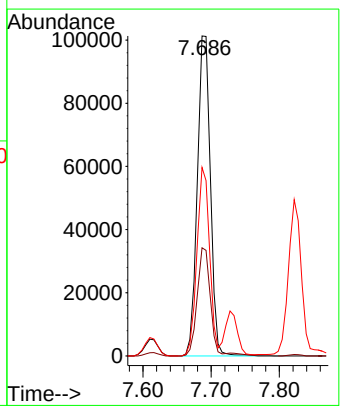


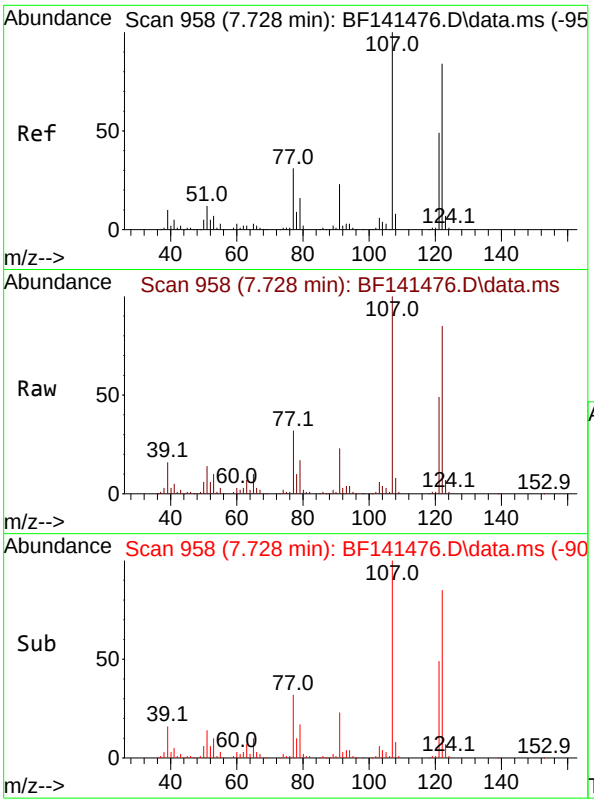


#26
2-Nitrophenol
Concen: 41.394 ng
RT: 7.686 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:139 Resp: 135355

Ion	Ratio	Lower	Upper
139	100		
109	33.8	27.0	40.6
65	58.9	47.1	70.7



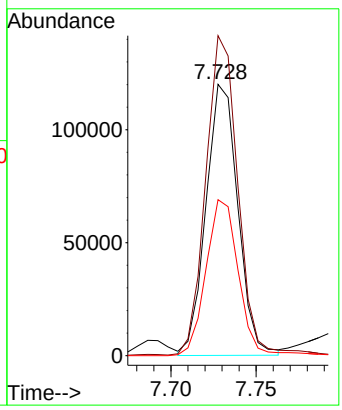


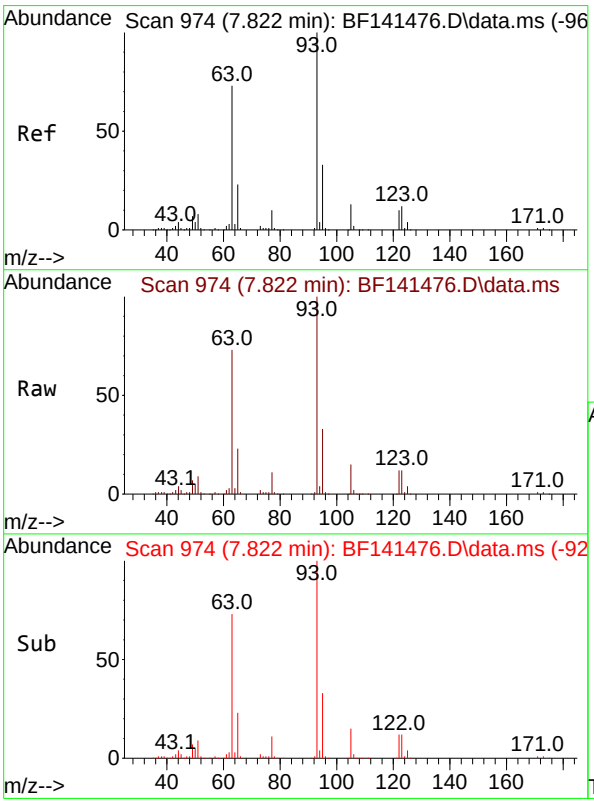
#27
2,4-Dimethylphenol
Concen: 41.012 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 156665

Ion	Ratio	Lower	Upper
122	100		
107	117.9	94.3	141.5
121	57.5	46.0	69.0

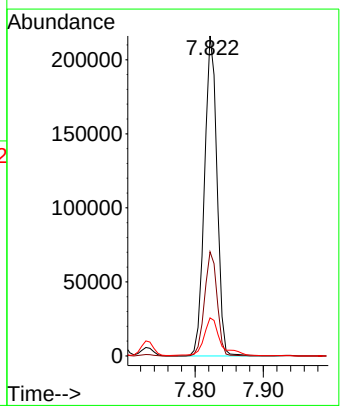


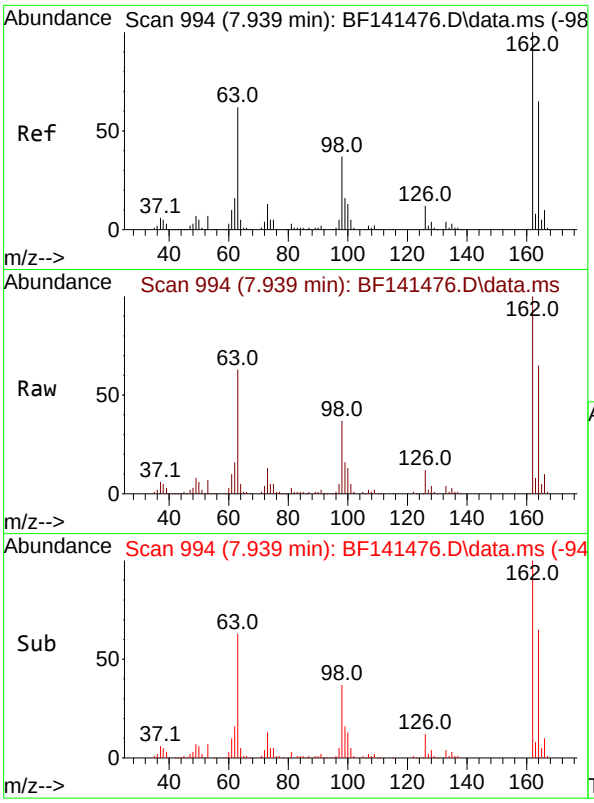


#28
bis(2-Chloroethoxy)methane
Concen: 40.185 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 93 Resp: 276730

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.1	39.1
123	11.9	9.5	14.3



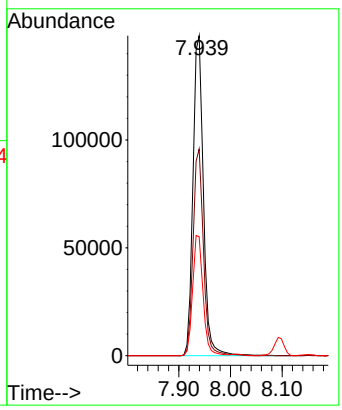


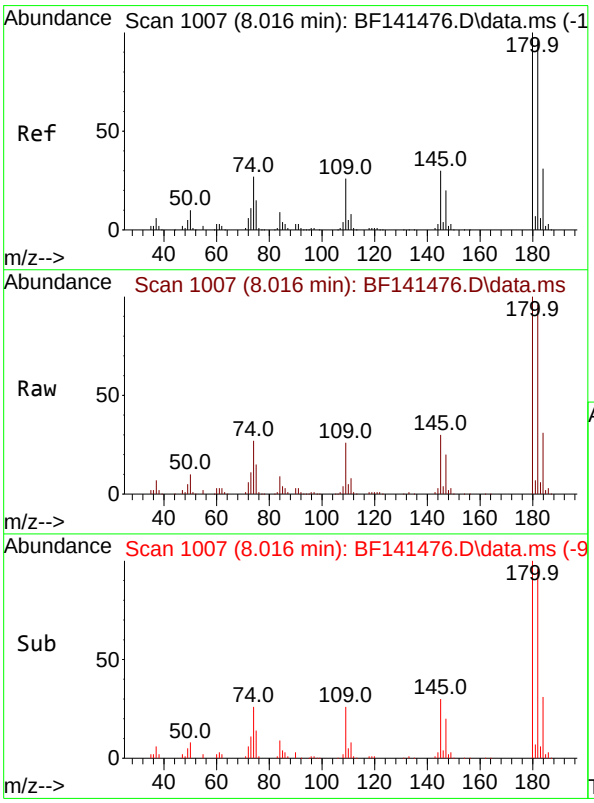
#29
2,4-Dichlorophenol
Concen: 40.375 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 208390

Ion	Ratio	Lower	Upper
162	100		
164	64.6	44.6	84.6
98	37.2	17.2	57.2

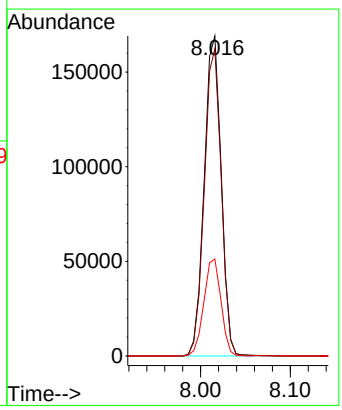


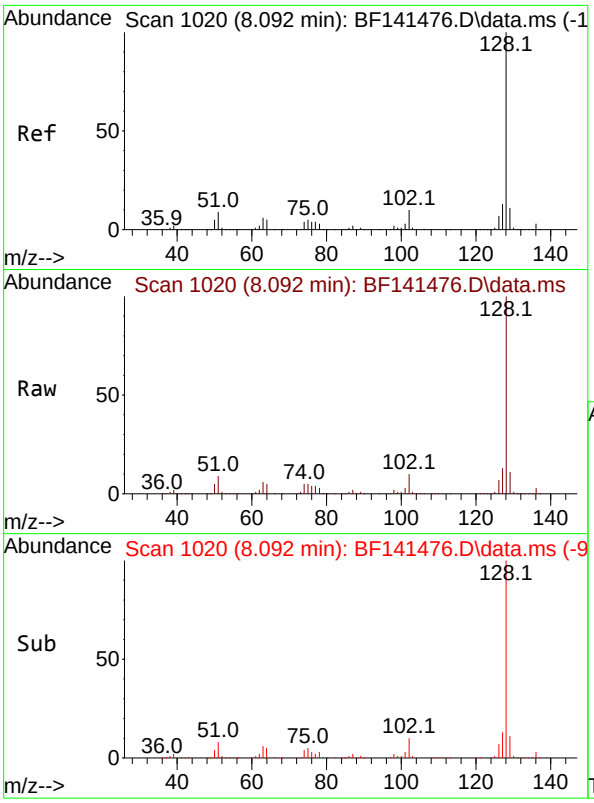


#30
1,2,4-Trichlorobenzene
Concen: 39.619 ng
RT: 8.016 min Scan# 1007
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:180 Resp: 222679

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
145	30.3	24.2	36.4



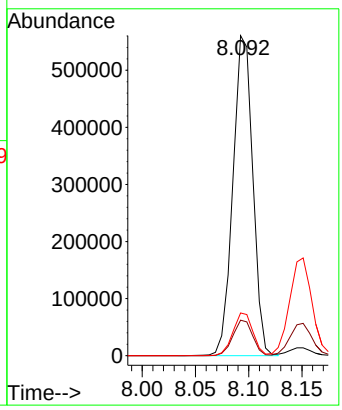


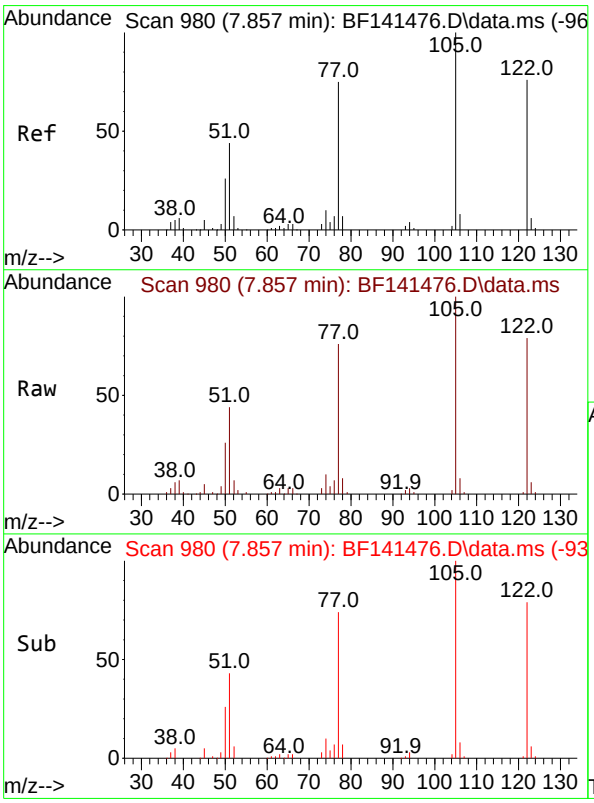
#31
Naphthalene
Concen: 39.856 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 729358

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.7	16.1

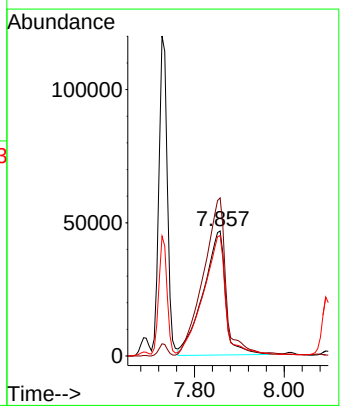


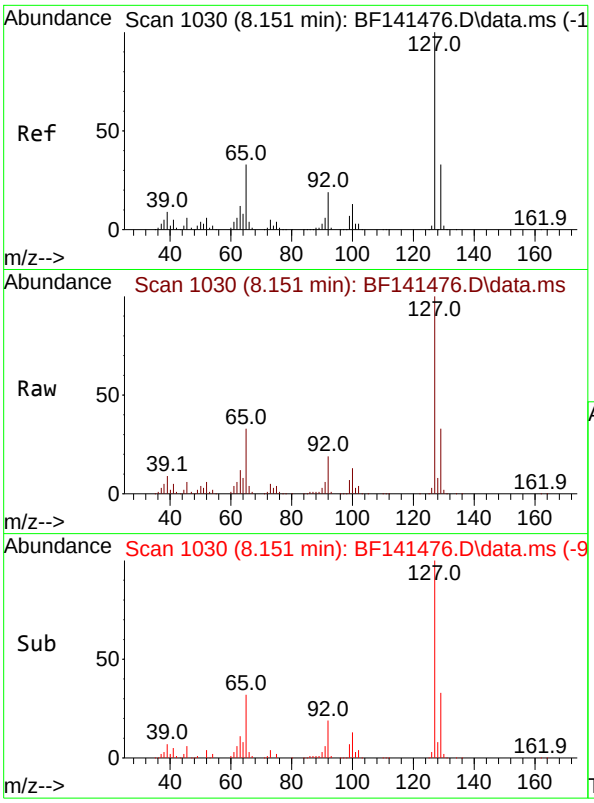


#32
Benzoic acid
Concen: 40.625 ng
RT: 7.857 min Scan# 980
Delta R.T. -0.035 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:122 Resp: 161196

Ion	Ratio	Lower	Upper
122	100		
105	126.5	106.5	146.5
77	96.3	76.3	116.3



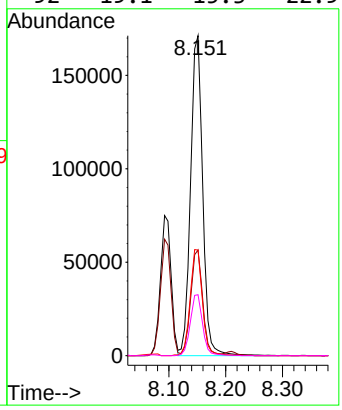


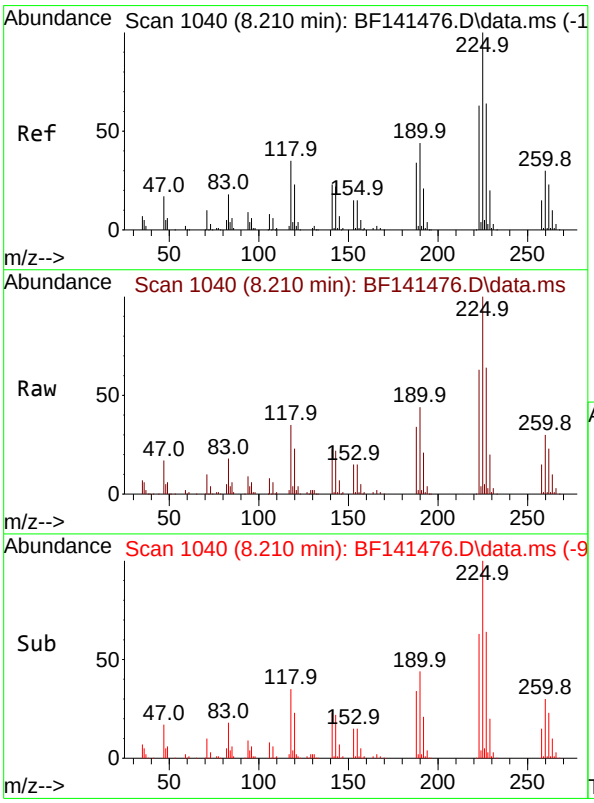
#33
4-Chloroaniline
Concen: 40.029 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 255749

Ion	Ratio	Lower	Upper
127	100		
129	33.1	26.5	39.7
65	33.0	26.4	39.6
92	19.1	15.3	22.9

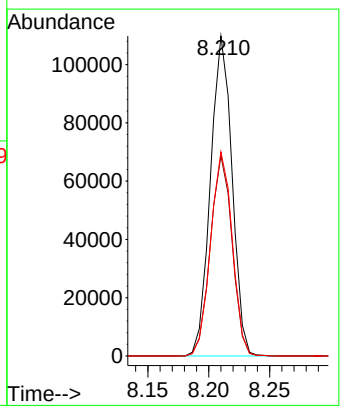


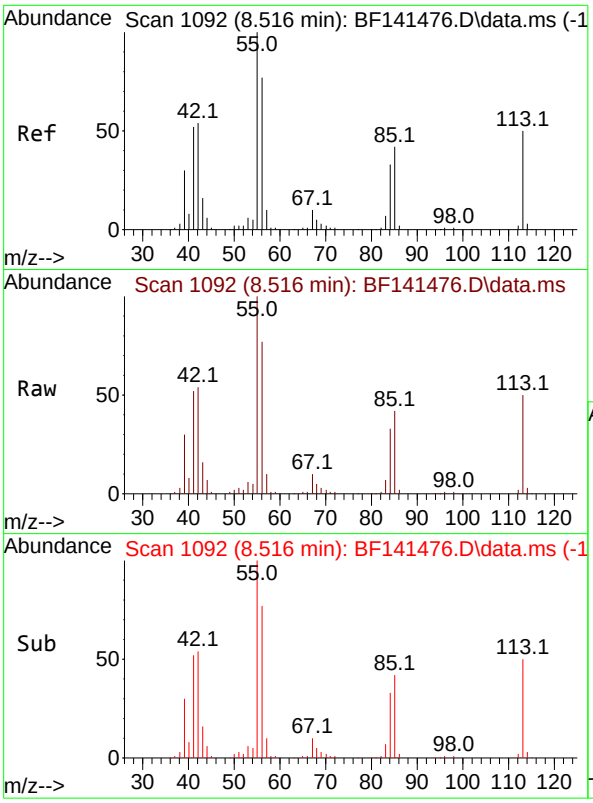


#34
Hexachlorobutadiene
Concen: 40.051 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:225 Resp: 135140

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1
227	63.8	51.0	76.6



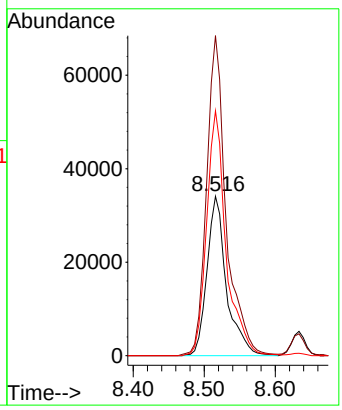


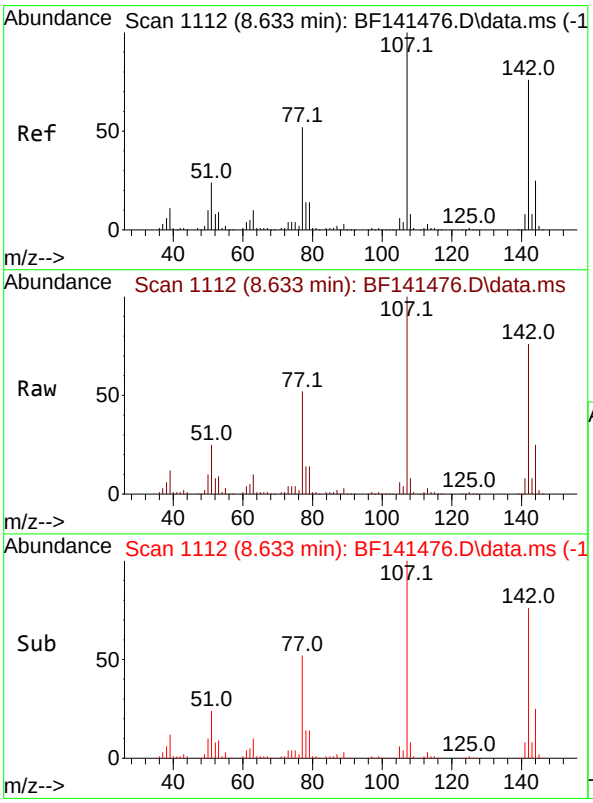
#35
Caprolactam
Concen: 41.461 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 65155

Ion	Ratio	Lower	Upper
113	100		
55	200.8	180.8	220.8
56	153.6	133.6	173.6

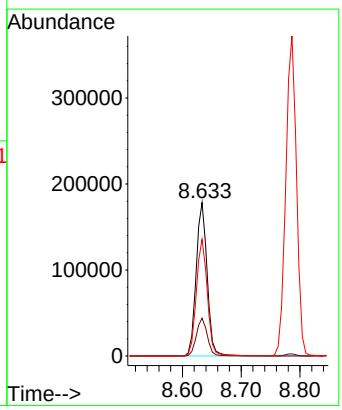


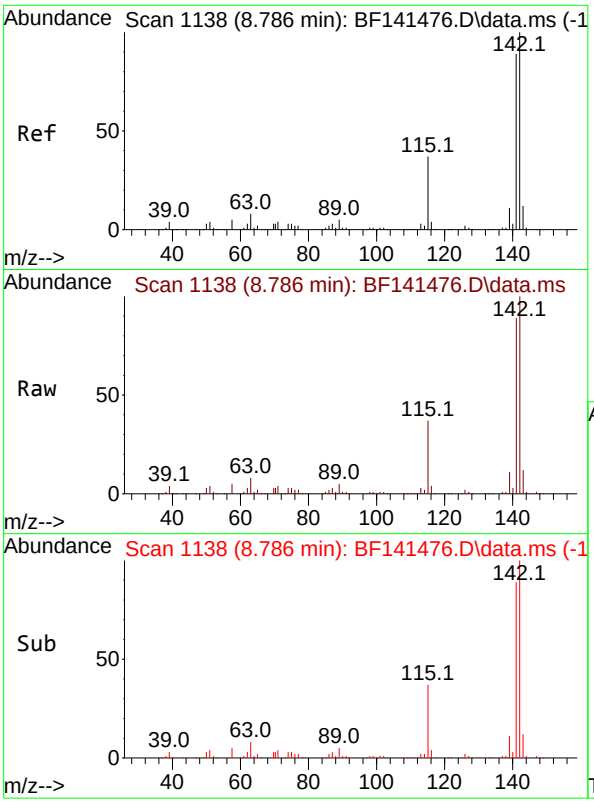


#36
4-Chloro-3-methylphenol
Concen: 40.464 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:107 Resp: 231344

Ion	Ratio	Lower	Upper
107	100		
144	24.6	19.7	29.5
142	76.0	60.8	91.2



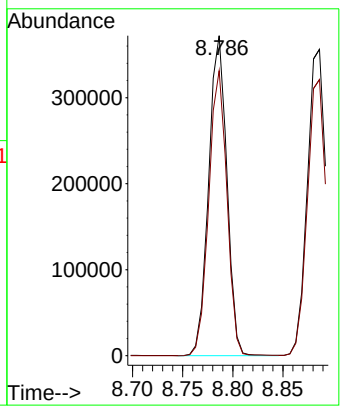


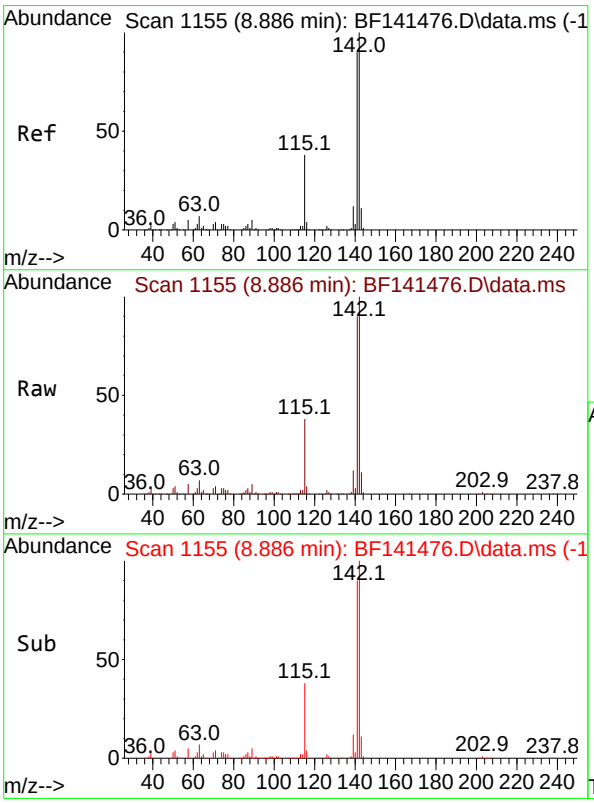
#37
2-Methylnaphthalene
Concen: 39.496 ng
RT: 8.786 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 470332

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.2	106.8

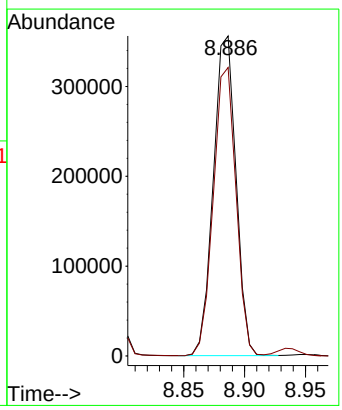


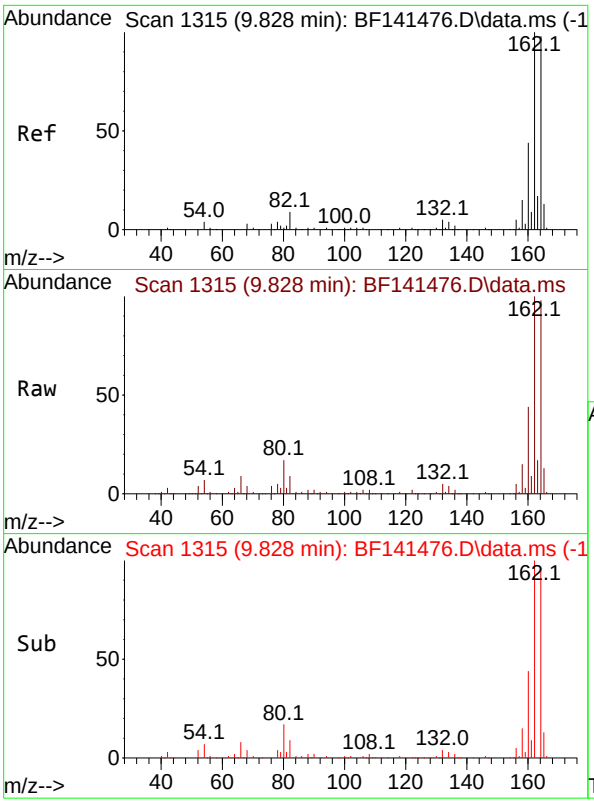


#38
1-Methylnaphthalene
Concen: 39.987 ng
RT: 8.886 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:142 Resp: 461189

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.1	108.1



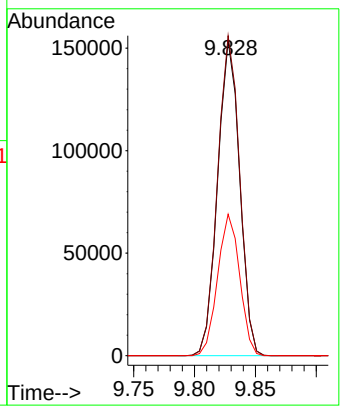


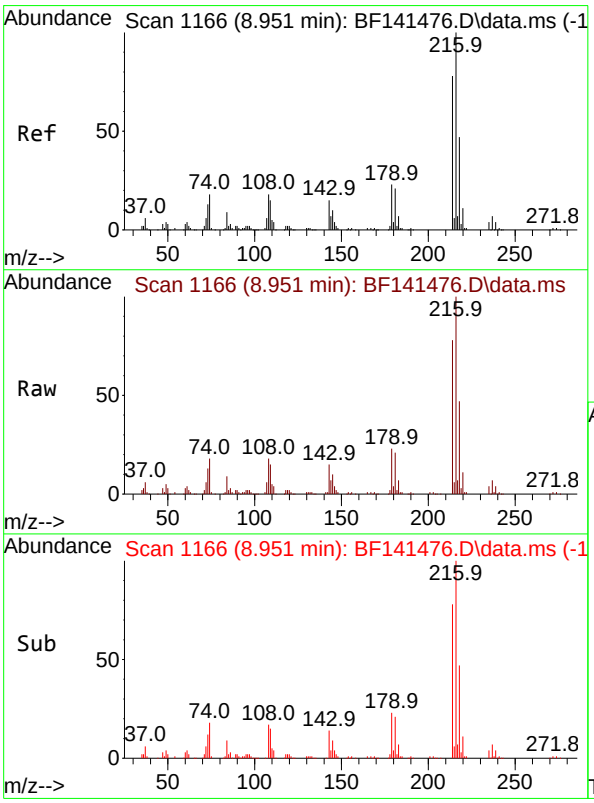
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 193385

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.3	121.9
160	44.9	35.9	53.9

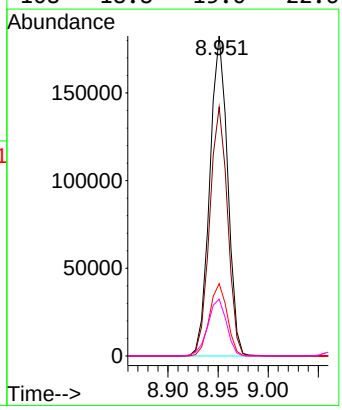


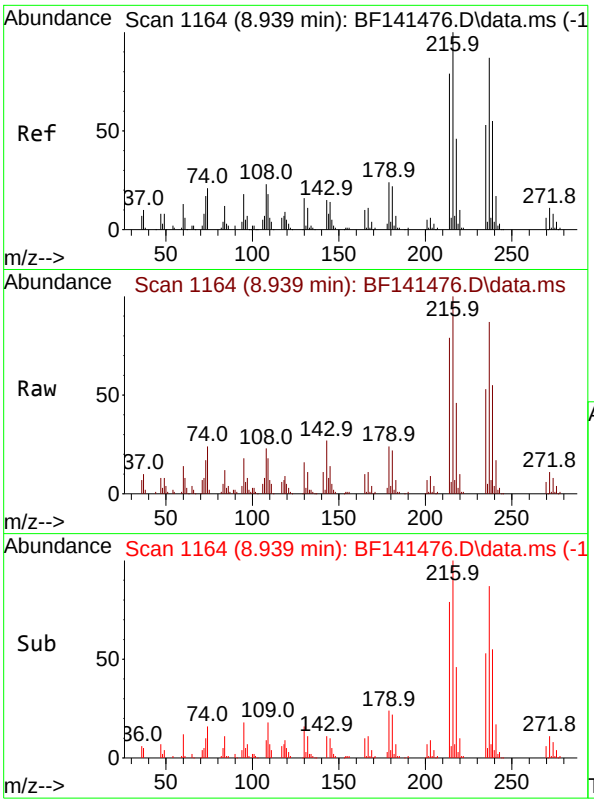


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.383 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:216 Resp: 225938

Ion	Ratio	Lower	Upper
216	100		
214	77.9	62.3	93.5
179	22.5	18.0	27.0
108	18.8	15.0	22.6



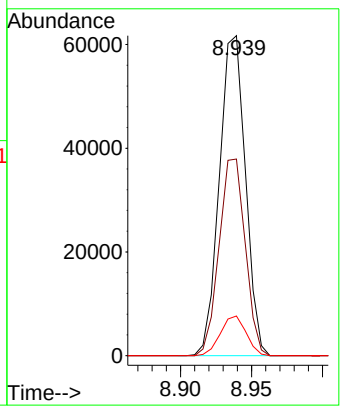


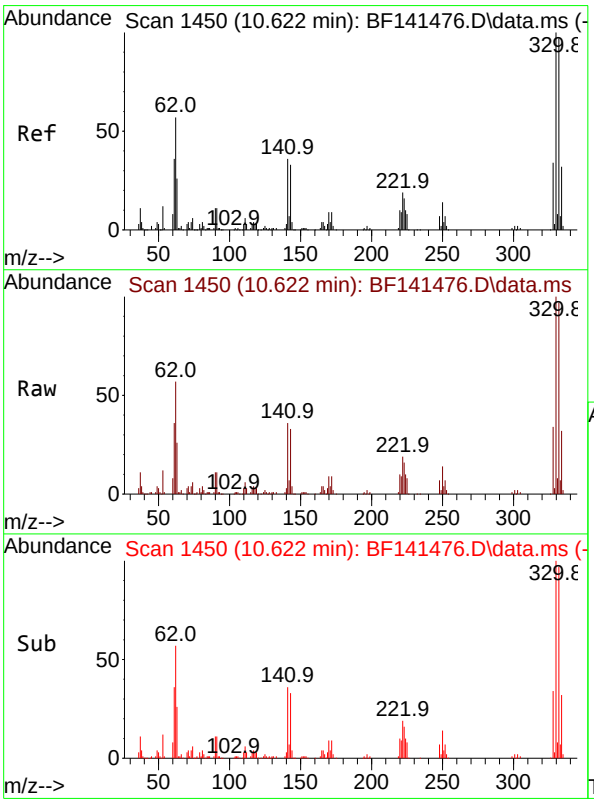
#41
Hexachlorocyclopentadiene
Concen: 42.325 ng
RT: 8.939 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 78762

Ion	Ratio	Lower	Upper
237	100		
235	61.4	41.4	81.4
272	12.4	0.0	32.4

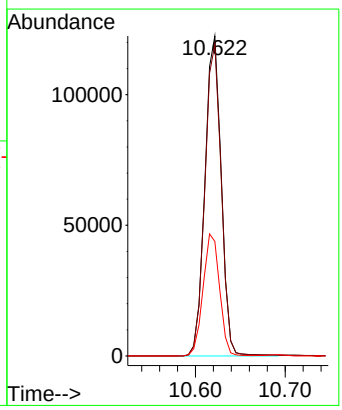


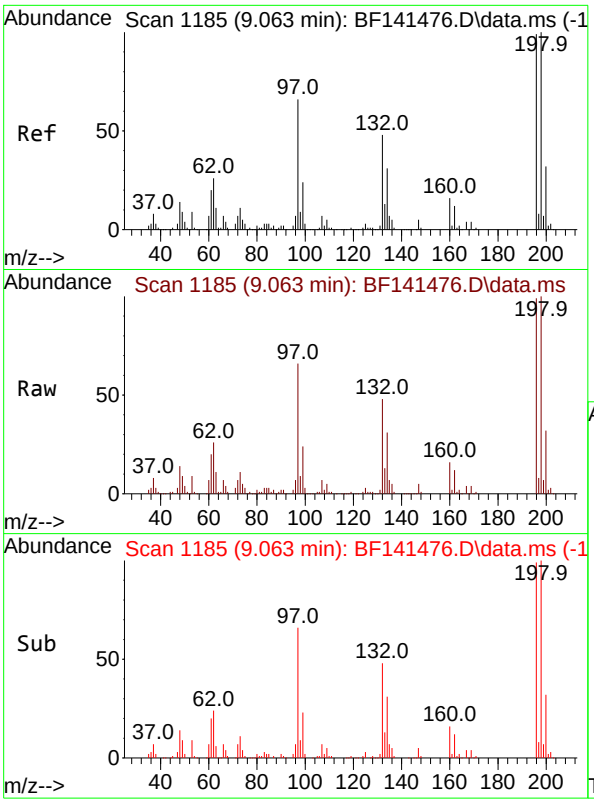


#42
2,4,6-Tribromophenol
Concen: 79.647 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.005 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:330 Resp: 154725

Ion	Ratio	Lower	Upper
330	100		
332	98.1	78.5	117.7
141	38.7	31.0	46.4



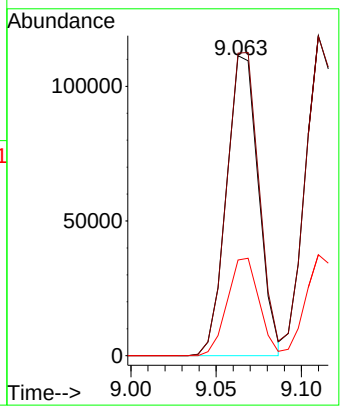


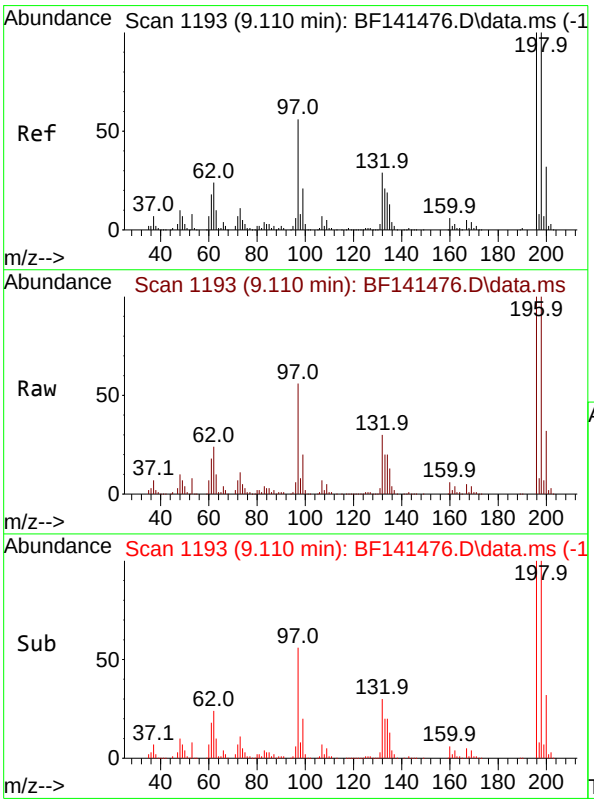
#43
2,4,6-Trichlorophenol
Concen: 40.288 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 145682

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.6	121.0
200	31.9	25.5	38.3

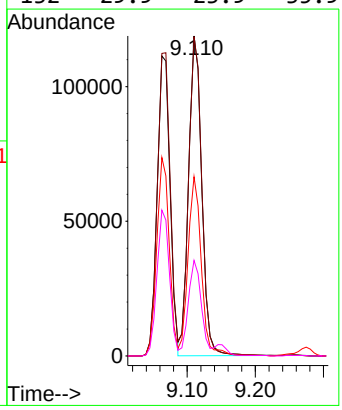


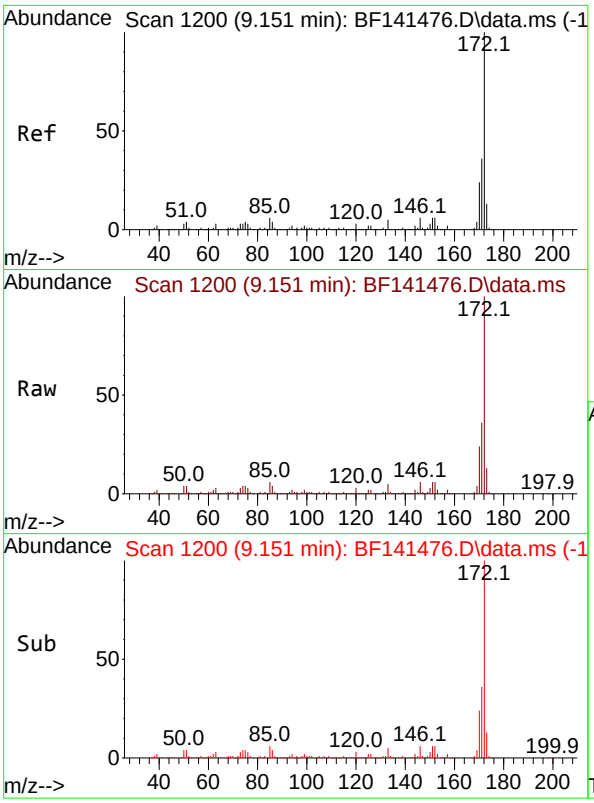


#44
2,4,5-Trichlorophenol
Concen: 40.492 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:196 Resp: 158685

Ion	Ratio	Lower	Upper
196	100		
198	99.8	79.8	119.8
97	56.0	44.8	67.2
132	29.9	23.9	35.9



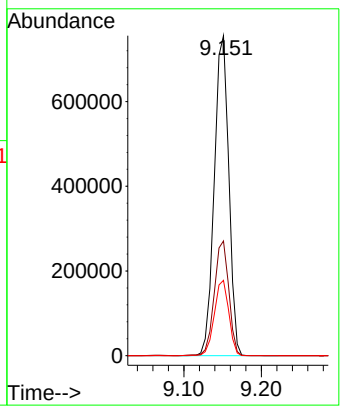


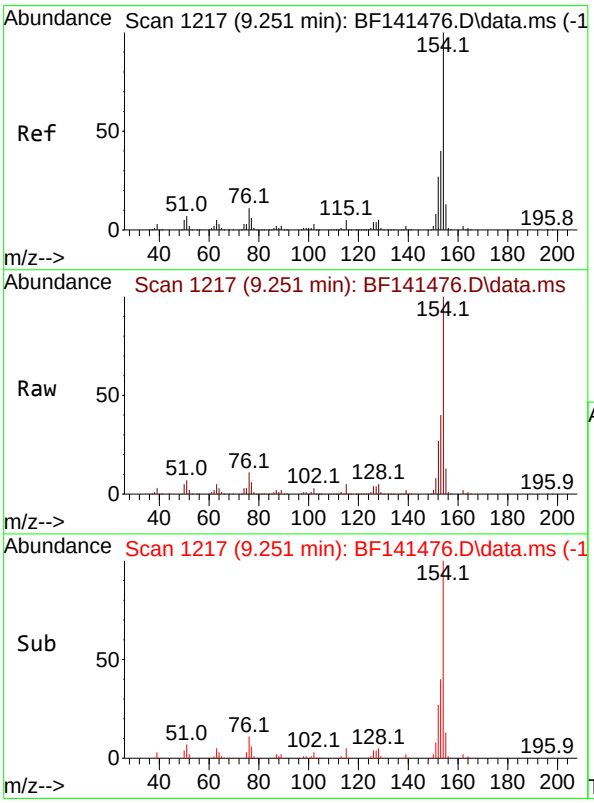
#45
2-Fluorobiphenyl
Concen: 78.189 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 981440

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.7	43.1
170	23.6	18.9	28.3

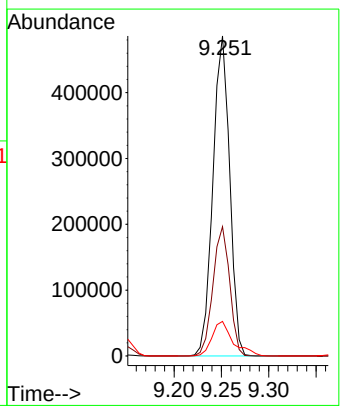


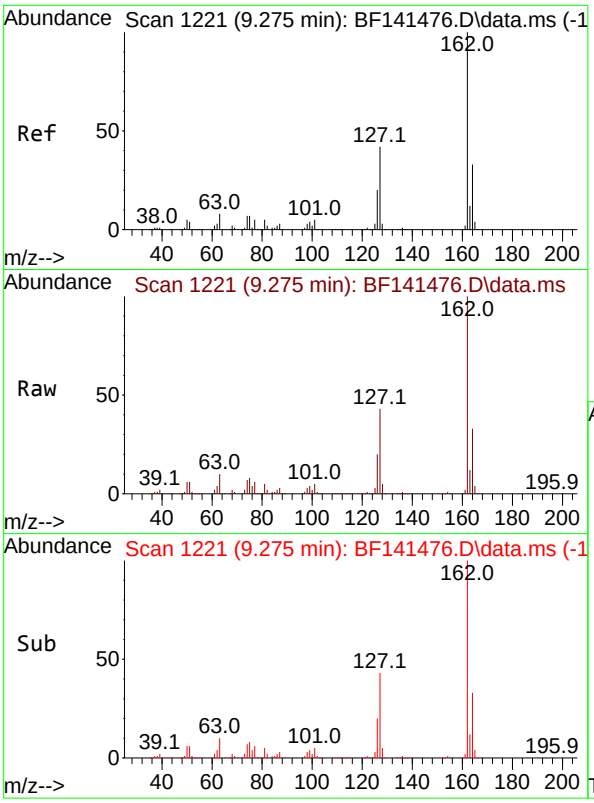


#46
1,1'-Biphenyl
Concen: 39.846 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:154 Resp: 597404

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	10.8	0.0	30.8



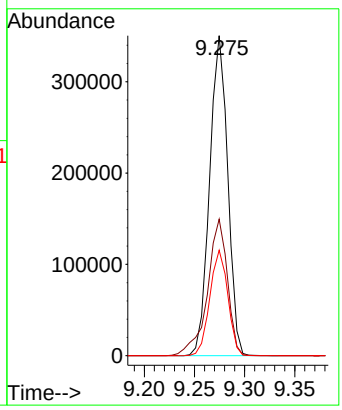


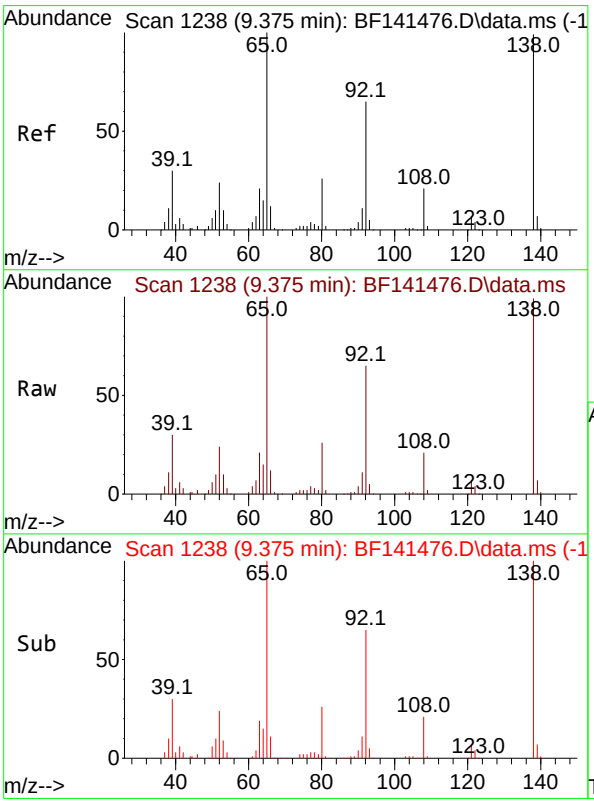
#47
2-Chloronaphthalene
Concen: 39.590 ng
RT: 9.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 438926

Ion	Ratio	Lower	Upper
162	100		
127	42.6	34.1	51.1
164	32.9	26.3	39.5

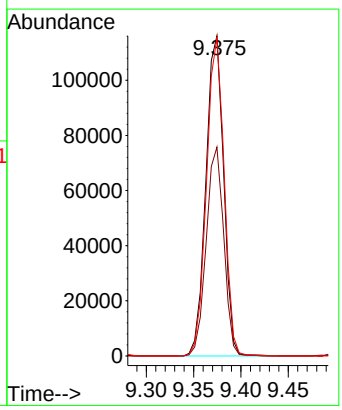


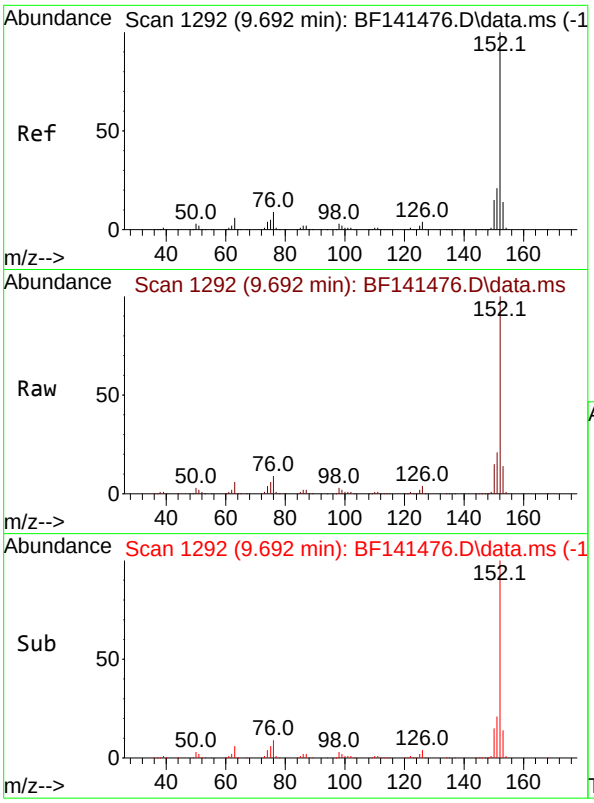


#48
2-Nitroaniline
Concen: 40.563 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 65 Resp: 150922

Ion	Ratio	Lower	Upper
65	100		
92	65.2	52.2	78.2
138	99.4	79.5	119.3



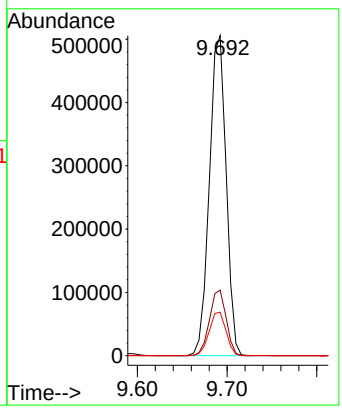


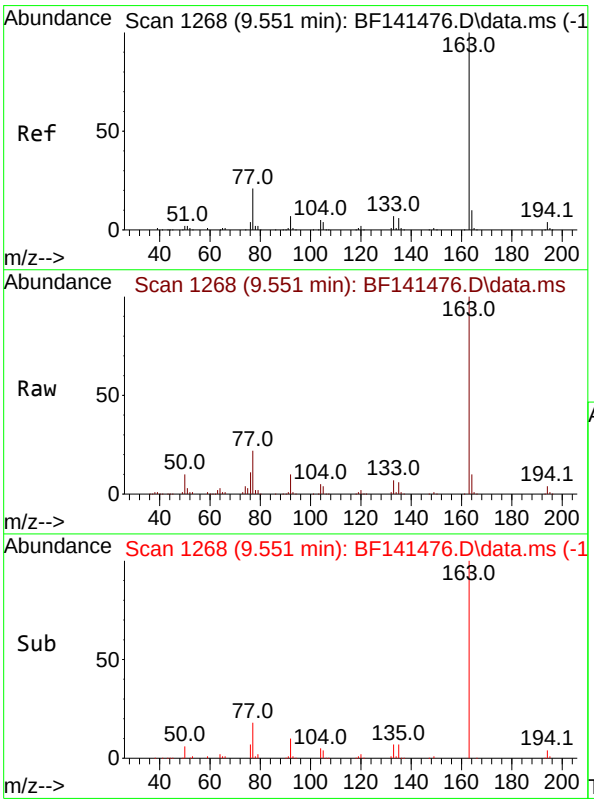
#49
Acenaphthylene
Concen: 39.789 ng
RT: 9.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 656124

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.4	24.6
153	13.6	10.9	16.3

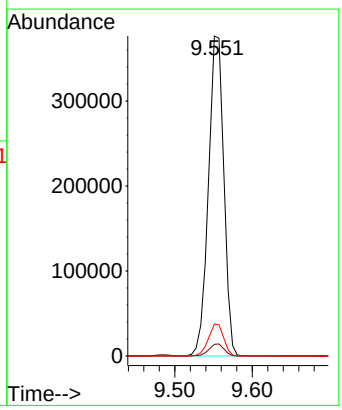


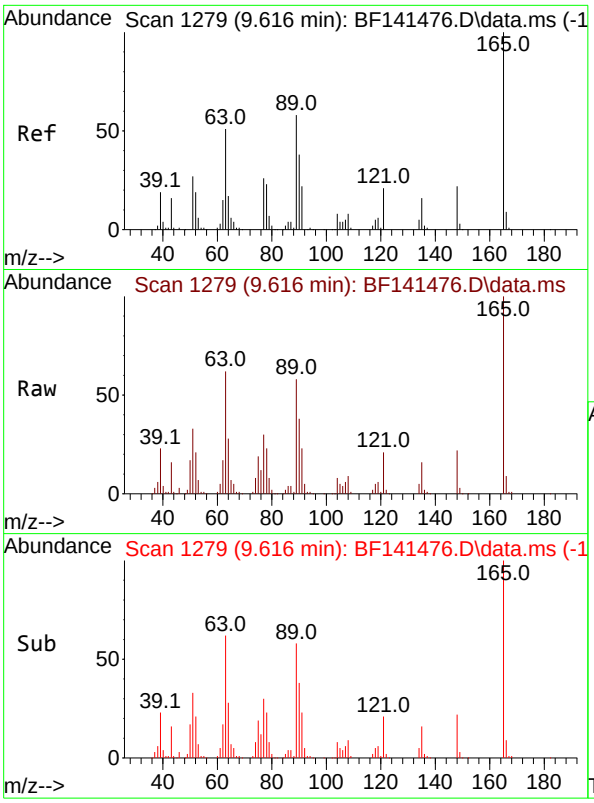


#50
Dimethylphthalate
Concen: 39.638 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:163 Resp: 520384

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.4
164	9.9	7.9	11.9



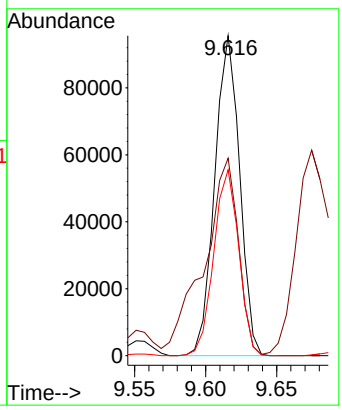


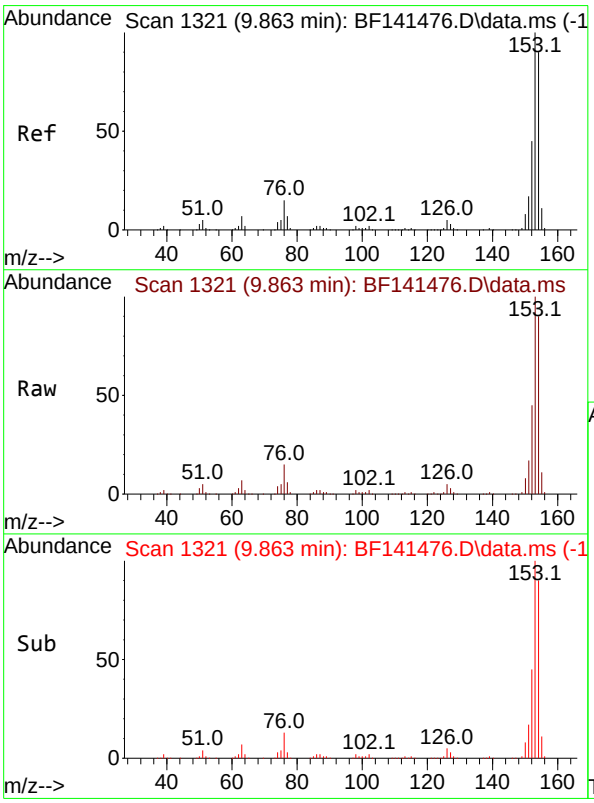
#51
2,6-Dinitrotoluene
Concen: 40.536 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 116338

Ion	Ratio	Lower	Upper
165	100		
63	61.7	49.4	74.0
89	58.1	46.5	69.7

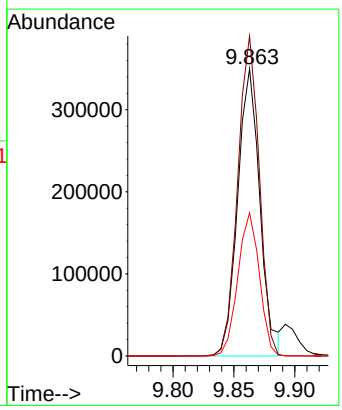


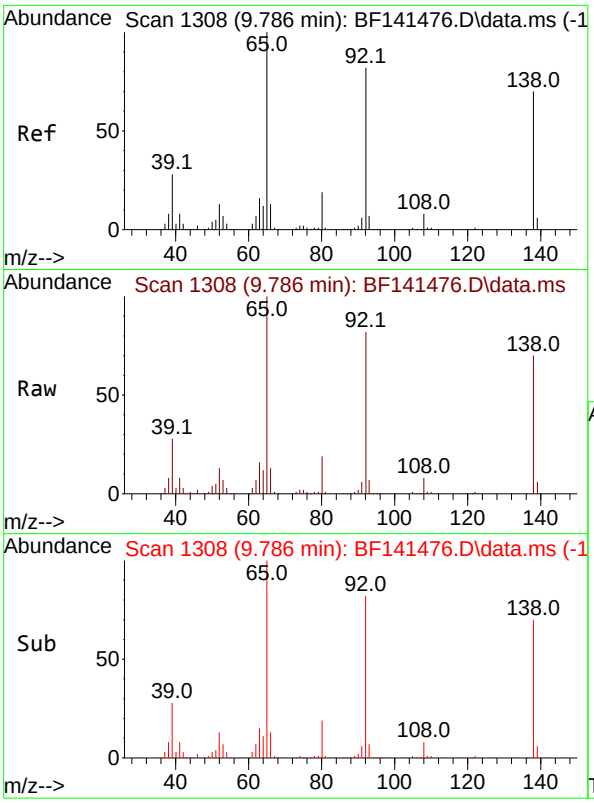


#52
Acenaphthene
Concen: 40.186 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:154 Resp: 445515

Ion	Ratio	Lower	Upper
154	100		
153	111.5	89.2	133.8
152	49.8	39.8	59.8



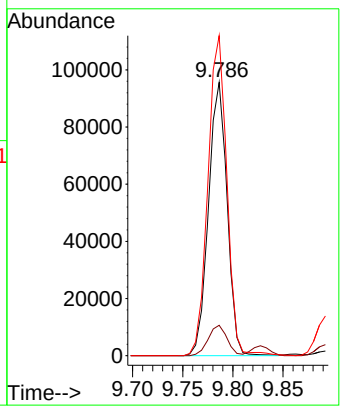


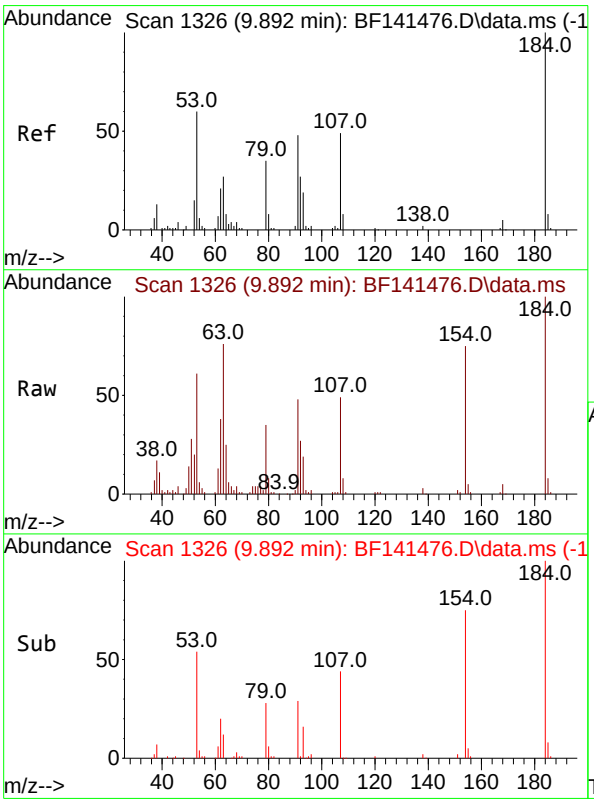
#53
3-Nitroaniline
Concen: 39.991 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 123530

Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.0	13.4
92	117.1	93.7	140.5

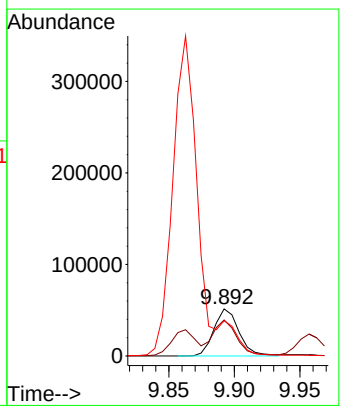


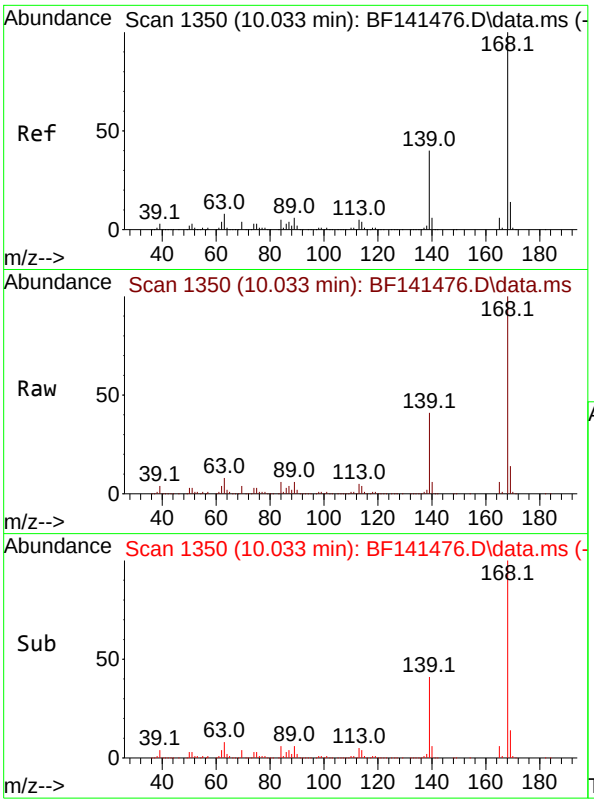


#54
2,4-Dinitrophenol
Concen: 40.153 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:184 Resp: 68489

Ion	Ratio	Lower	Upper
184	100		
63	76.3	61.0	91.6
154	74.9	59.9	89.9



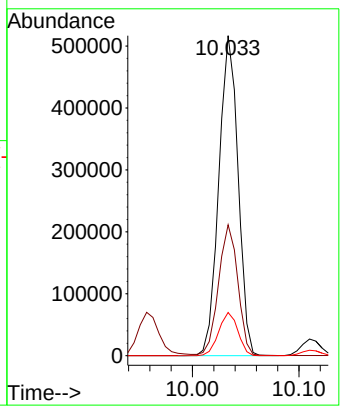


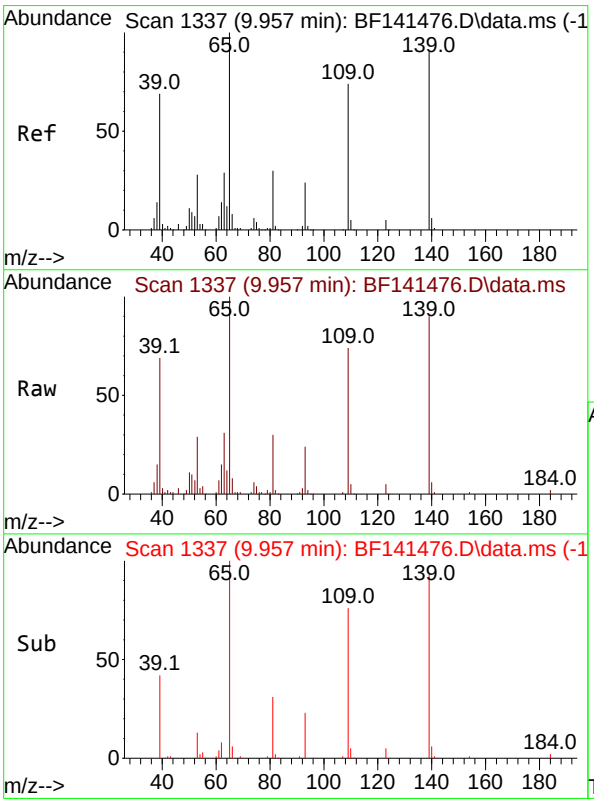
#55
Dibenzofuran
Concen: 39.775 ng
RT: 10.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 647242

Ion	Ratio	Lower	Upper
168	100		
139	40.9	32.7	49.1
169	13.5	10.8	16.2

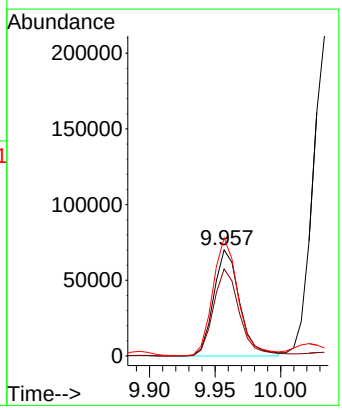


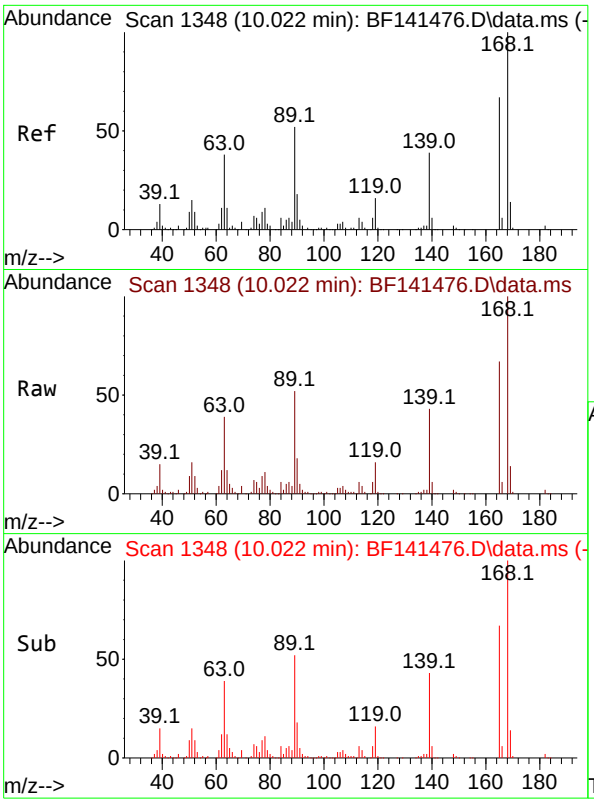


#56
4-Nitrophenol
Concen: 42.065 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:139 Resp: 96456

Ion	Ratio	Lower	Upper
139	100		
109	82.0	62.0	102.0
65	111.2	91.2	131.2



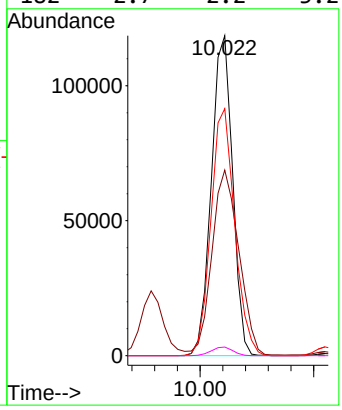


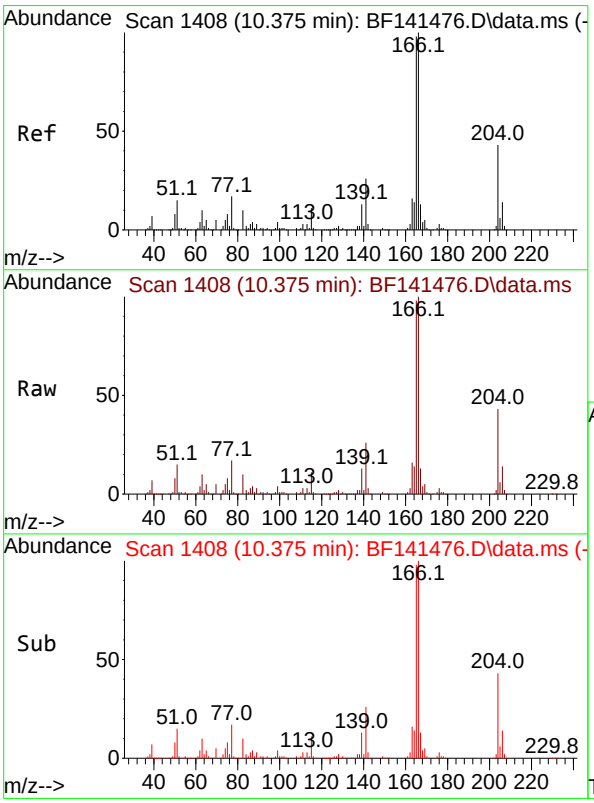
#57
2,4-Dinitrotoluene
Concen: 40.262 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 153824

Ion	Ratio	Lower	Upper
165	100		
63	58.0	46.4	69.6
89	77.2	61.8	92.6
182	2.7	2.2	3.2

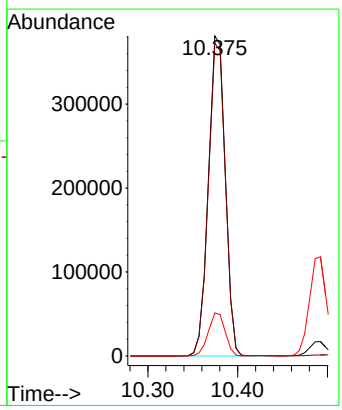


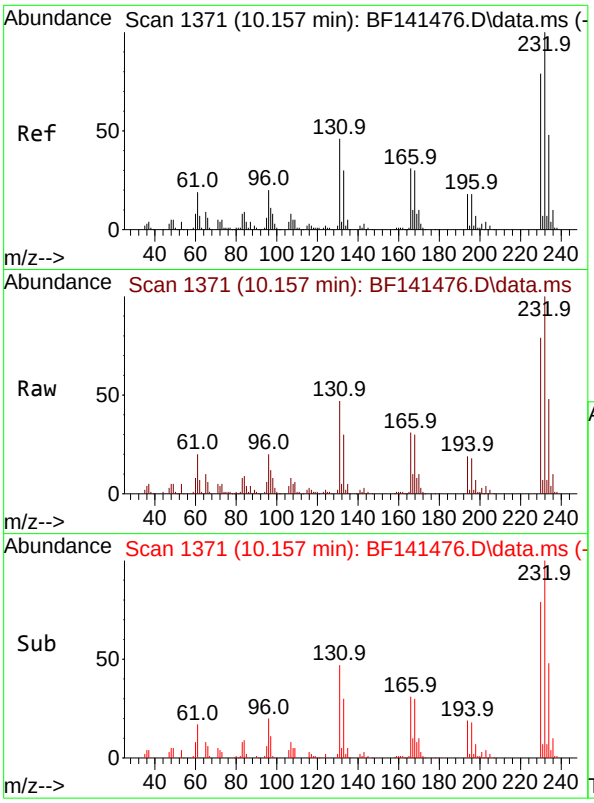


#58
Fluorene
Concen: 39.654 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:166 Resp: 498929

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.2	117.2
167	13.4	10.7	16.1



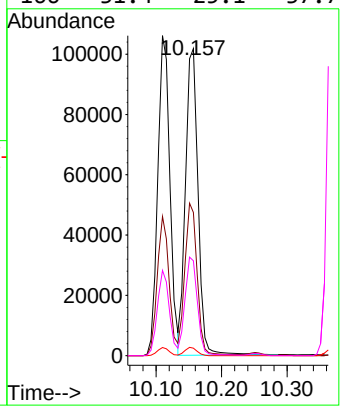


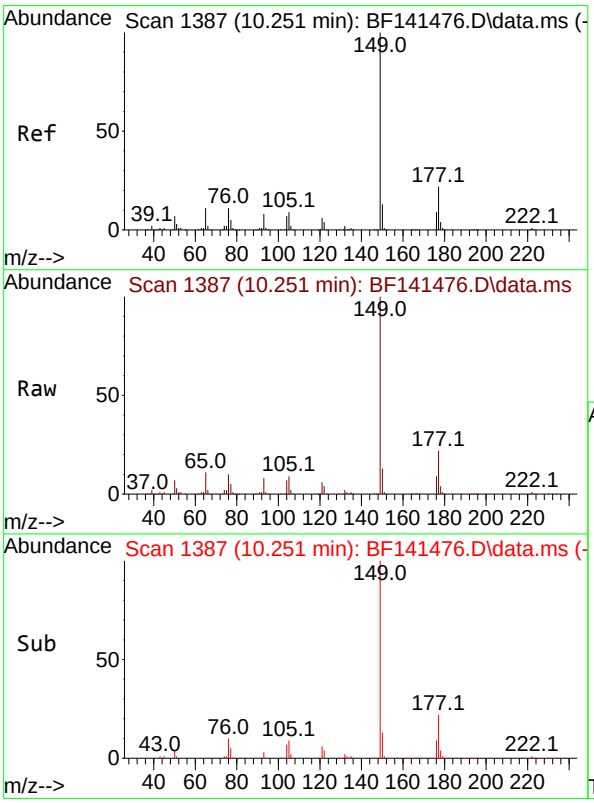
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.888 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 134581

Ion	Ratio	Lower	Upper
232	100		
131	49.0	39.2	58.8
130	2.6	2.1	3.1
166	31.4	25.1	37.7

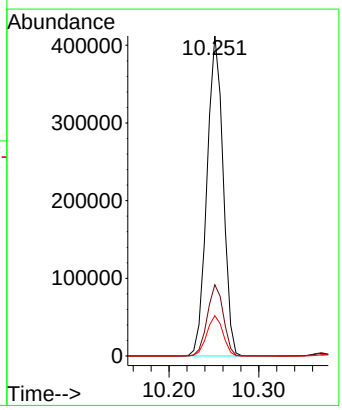


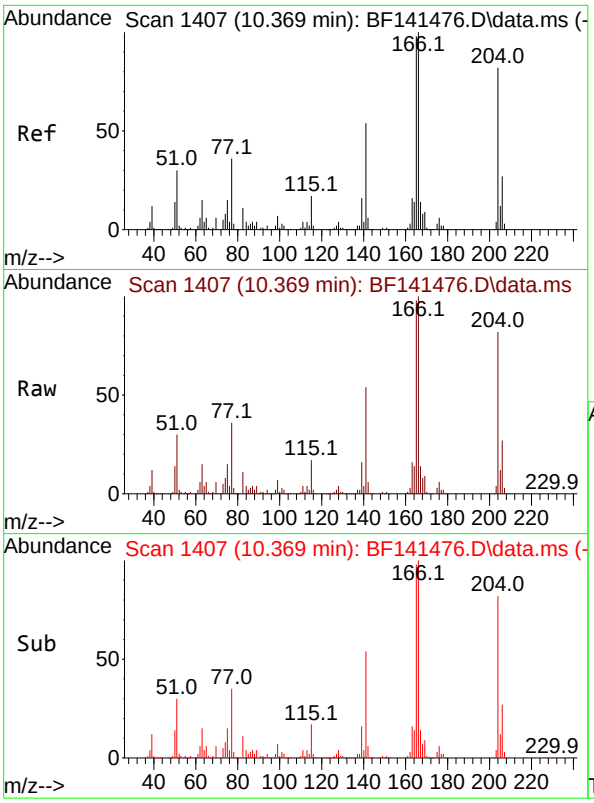


#60
Diethylphthalate
Concen: 39.821 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 514358

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.6
150	12.6	10.1	15.1



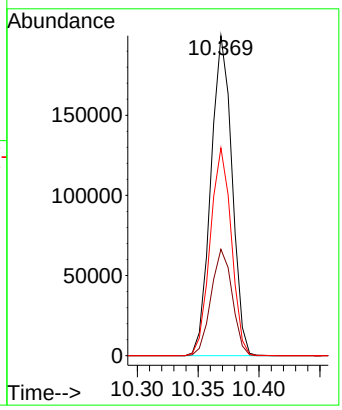


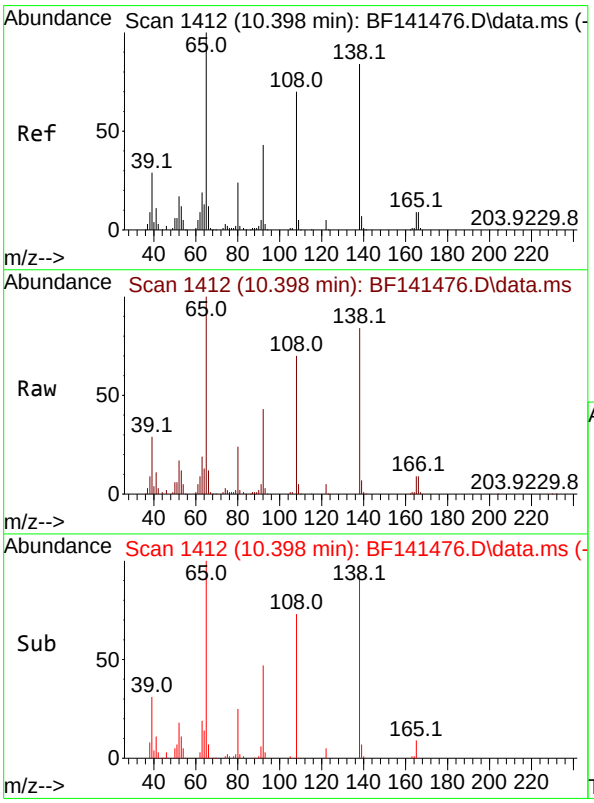
#61
4-Chlorophenyl-phenylether
Concen: 39.767 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 240707

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.6	40.0
141	64.9	51.9	77.9

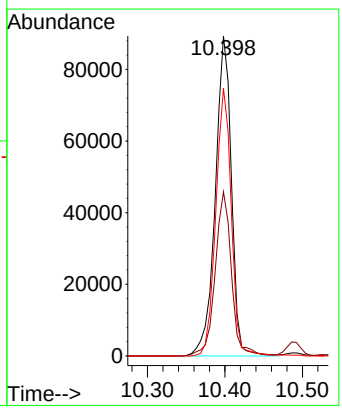


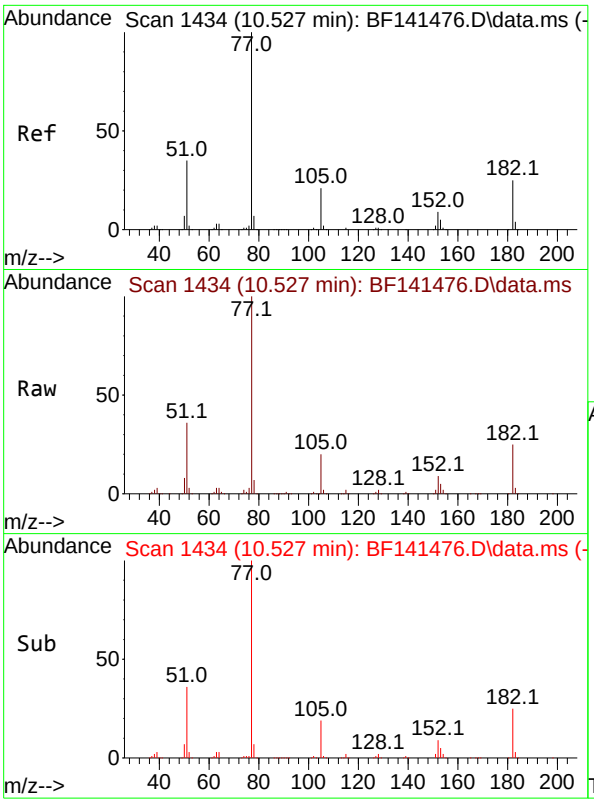


#62
4-Nitroaniline
Concen: 41.253 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:138 Resp: 129392

Ion	Ratio	Lower	Upper
138	100		
92	51.3	31.3	71.3
108	83.7	63.7	103.7



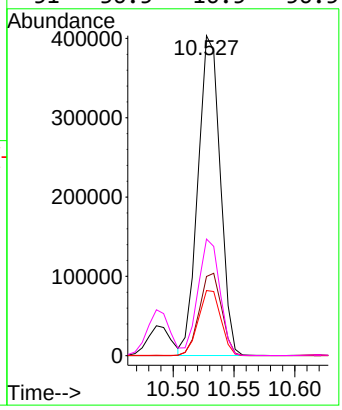


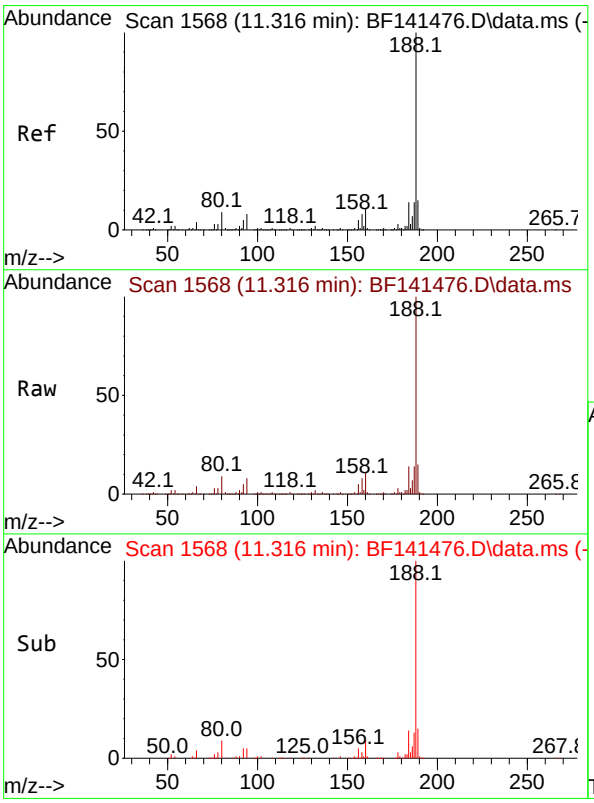
#63
Azobenzene
Concen: 39.926 ng
RT: 10.527 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 512692

Ion	Ratio	Lower	Upper
77	100		
182	24.7	4.7	44.7
105	20.4	0.4	40.4
51	36.5	16.5	56.5

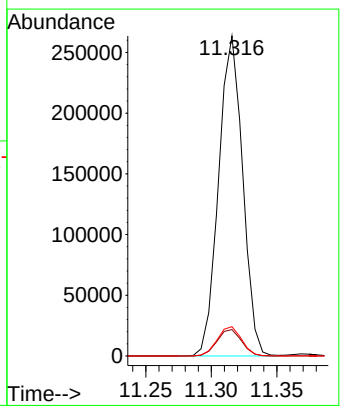


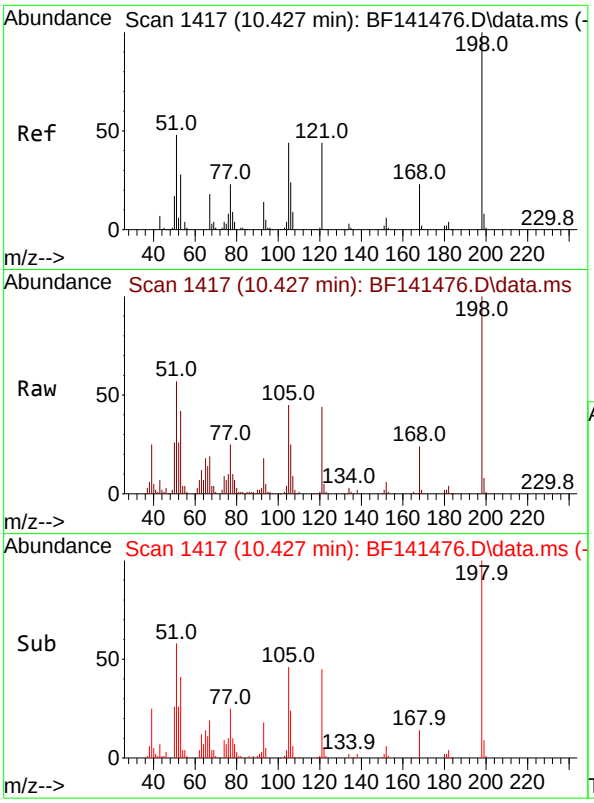


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:188 Resp: 336425

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.1	7.3	10.9



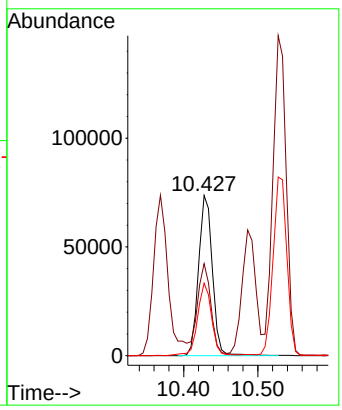


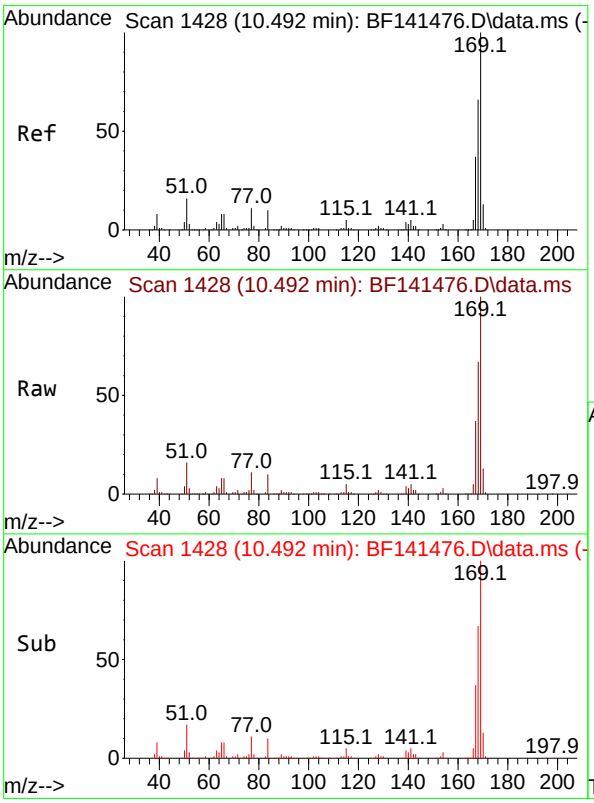
#65
4,6-Dinitro-2-methylphenol
Concen: 40.874 ng
RT: 10.427 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 95521

Ion	Ratio	Lower	Upper
198	100		
51	57.4	37.4	77.4
105	45.2	25.2	65.2

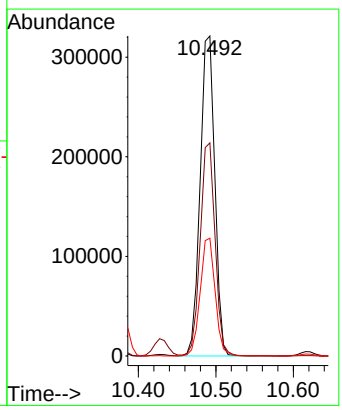


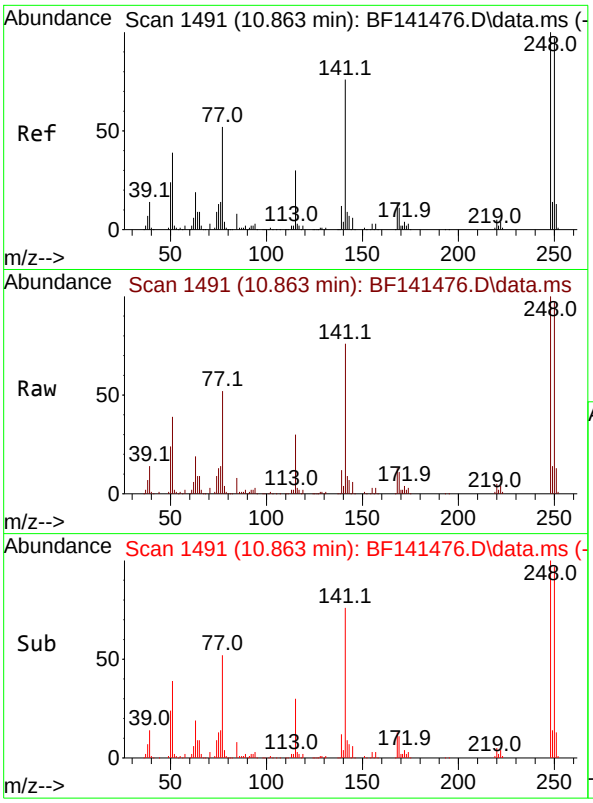


#66
n-Nitrosodiphenylamine
Concen: 39.180 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:169 Resp: 421937

Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.3	79.9
167	36.8	29.4	44.2



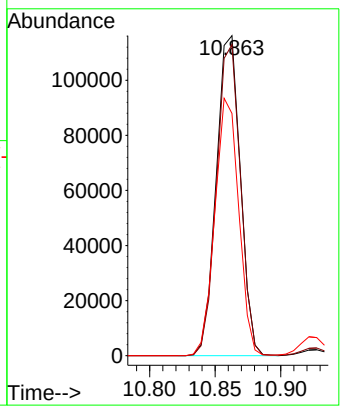


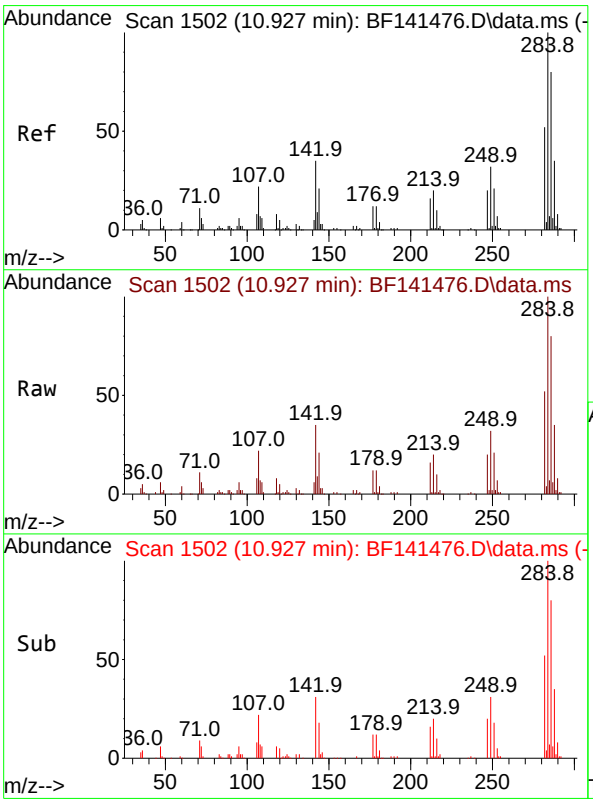
#67
4-Bromophenyl-phenylether
Concen: 39.522 ng
RT: 10.863 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 148603

Ion	Ratio	Lower	Upper
248	100		
250	97.2	77.8	116.6
141	75.7	60.6	90.8

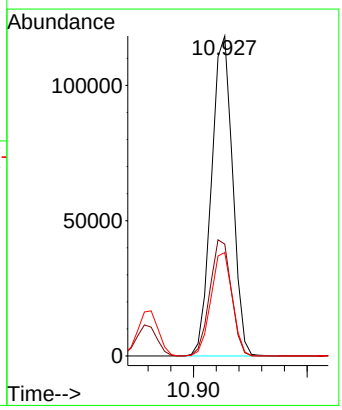


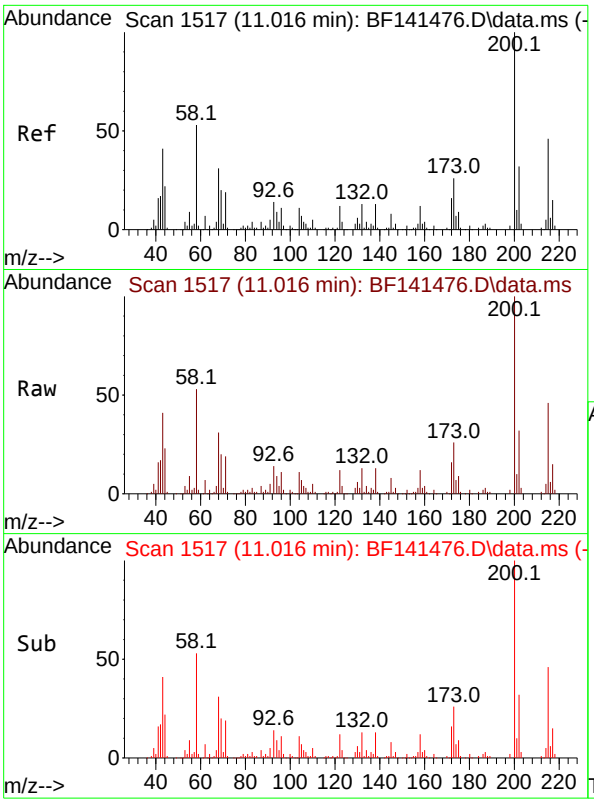


#68
Hexachlorobenzene
Concen: 39.430 ng
RT: 10.927 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:284 Resp: 152664

Ion	Ratio	Lower	Upper
284	100		
142	35.0	28.0	42.0
249	32.3	25.8	38.8



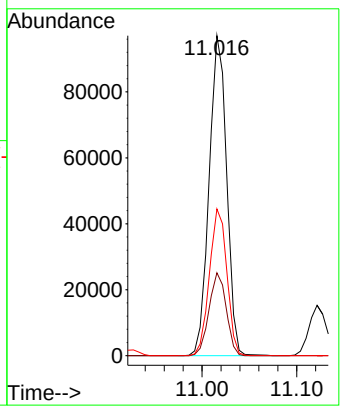


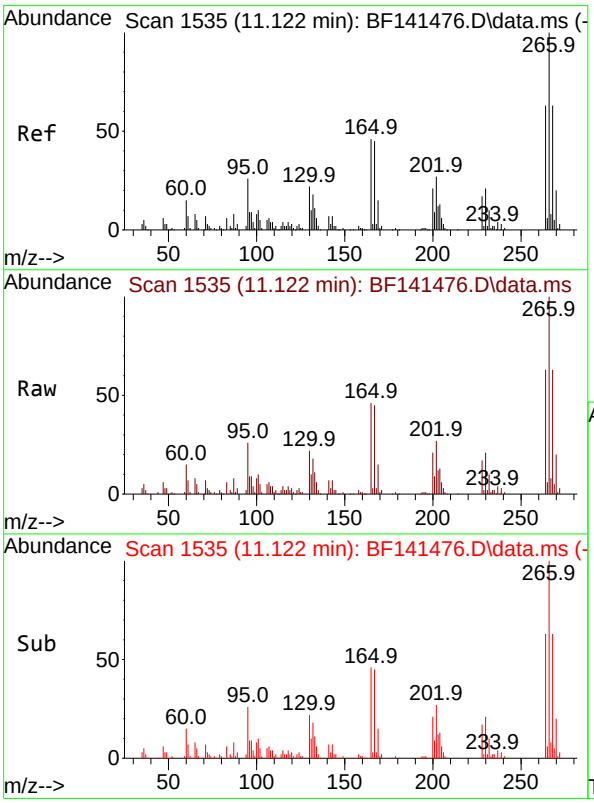
#69
Atrazine
Concen: 38.533 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 124494

Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.9	45.9
215	45.9	25.9	65.9

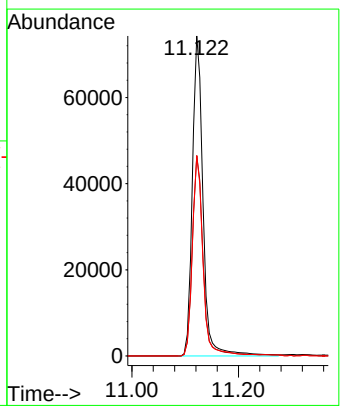


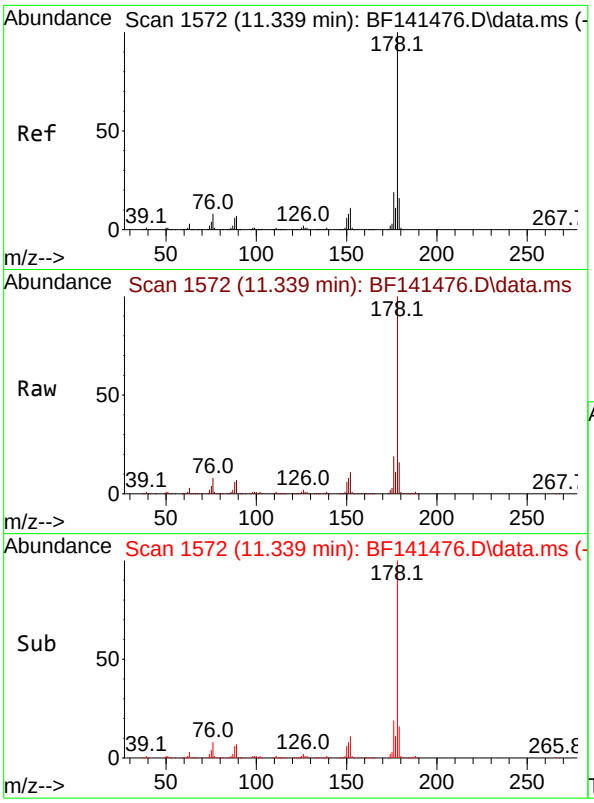


#70
Pentachlorophenol
Concen: 41.930 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:266 Resp: 103806

Ion	Ratio	Lower	Upper
266	100		
268	62.6	50.1	75.1
264	62.6	50.1	75.1



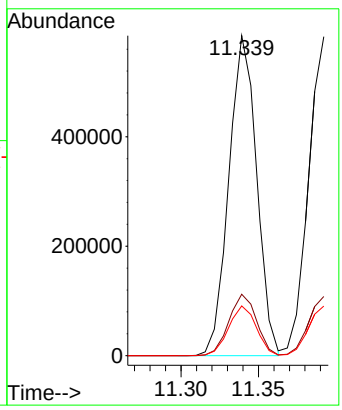


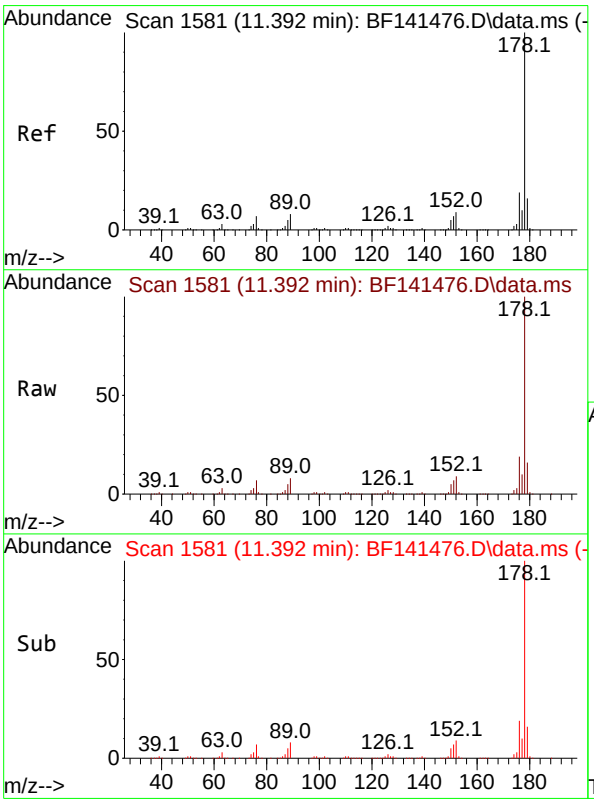
#71
Phenanthrene
Concen: 39.397 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 729585

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.5	12.4	18.6

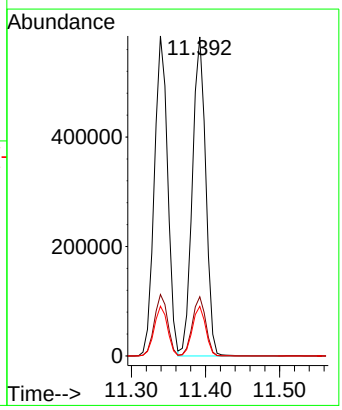


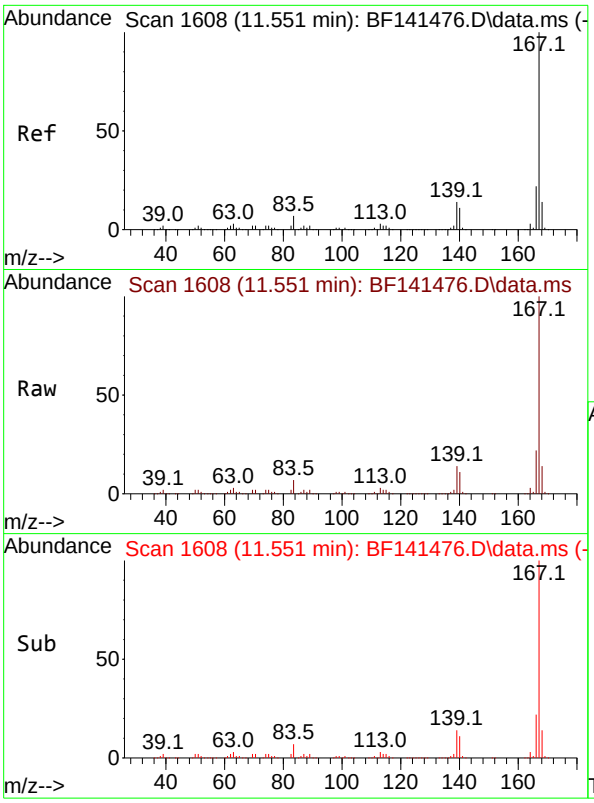


#72
Anthracene
Concen: 39.125 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:178 Resp: 728337

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.8	22.2
179	15.5	12.4	18.6



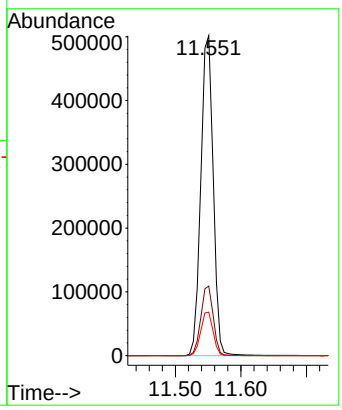


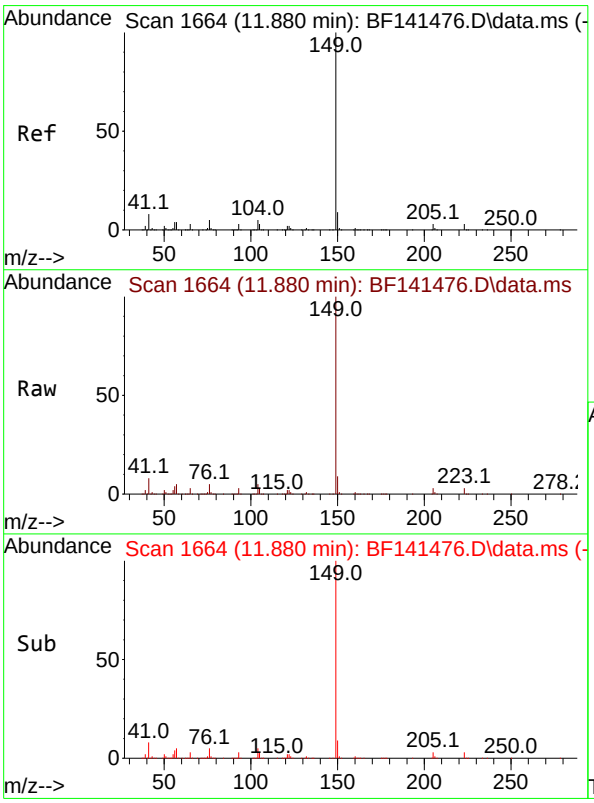
#73
Carbazole
Concen: 39.613 ng
RT: 11.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 663523

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.4	26.2
139	13.6	10.9	16.3

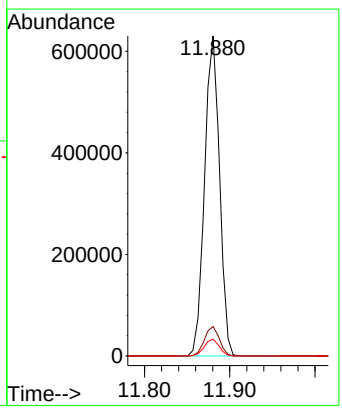


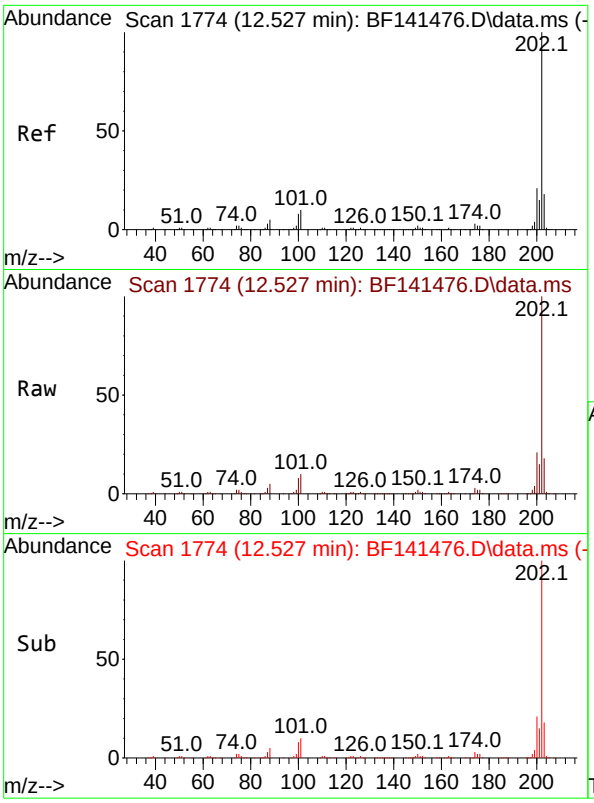


#74
Di-n-butylphthalate
Concen: 39.706 ng
RT: 11.880 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 767961

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.2	4.2	6.2



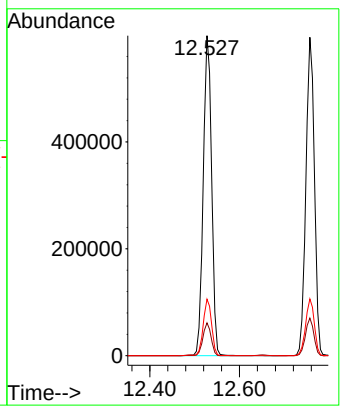


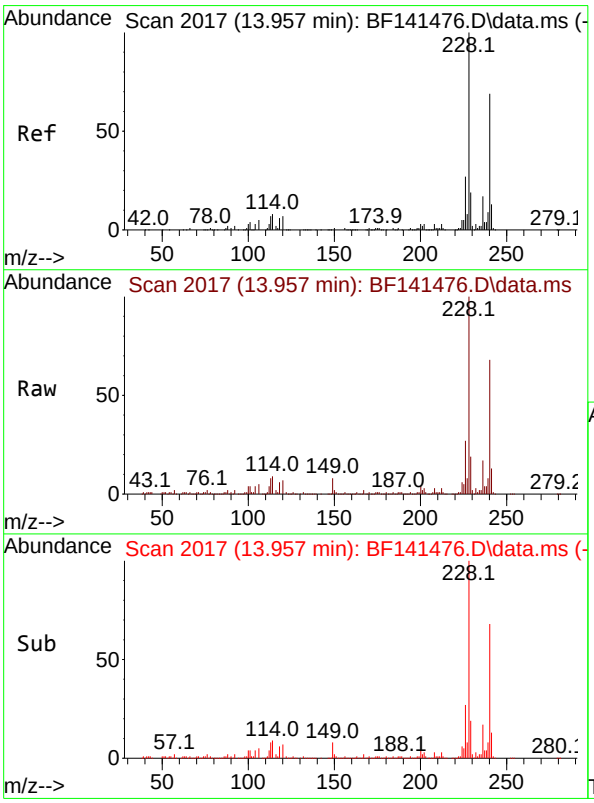
#75
Fluoranthene
Concen: 39.441 ng
RT: 12.527 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 774369

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.2
203	17.6	0.0	37.6

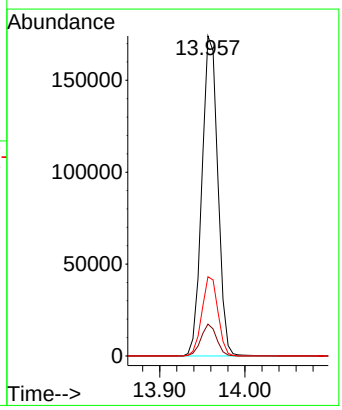


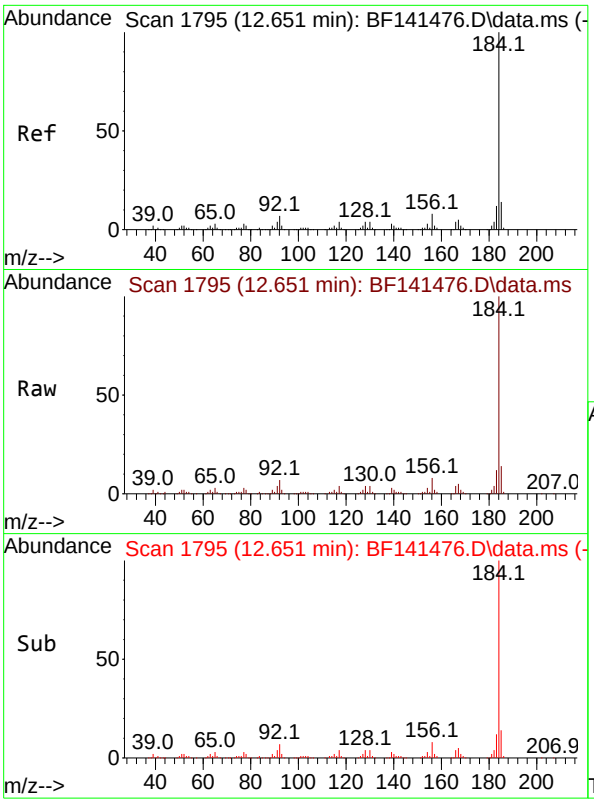


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:240 Resp: 225462

Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.0	12.0
236	24.8	19.8	29.8



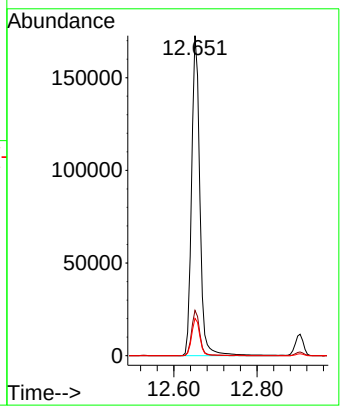


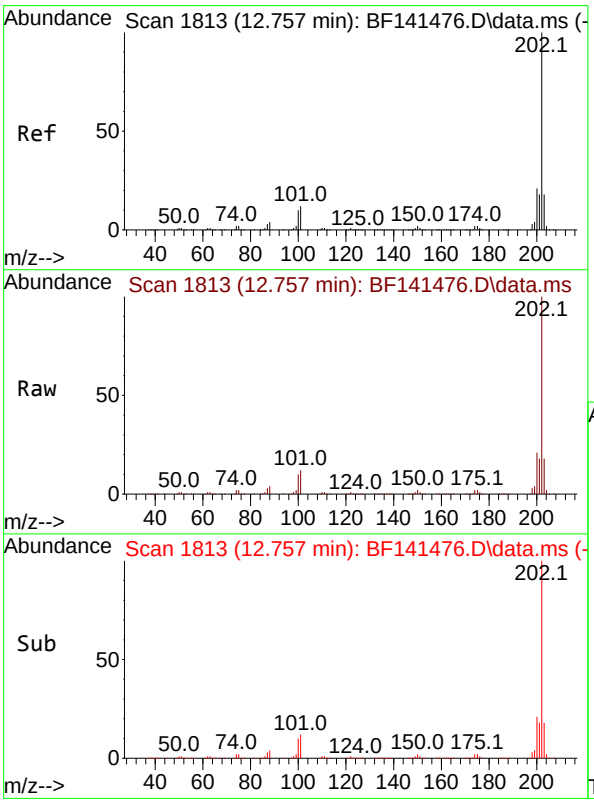
#77
Benzidine
Concen: 47.917 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 238261

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.3	16.9
183	11.6	9.3	13.9

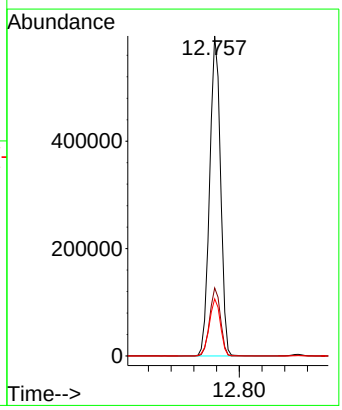


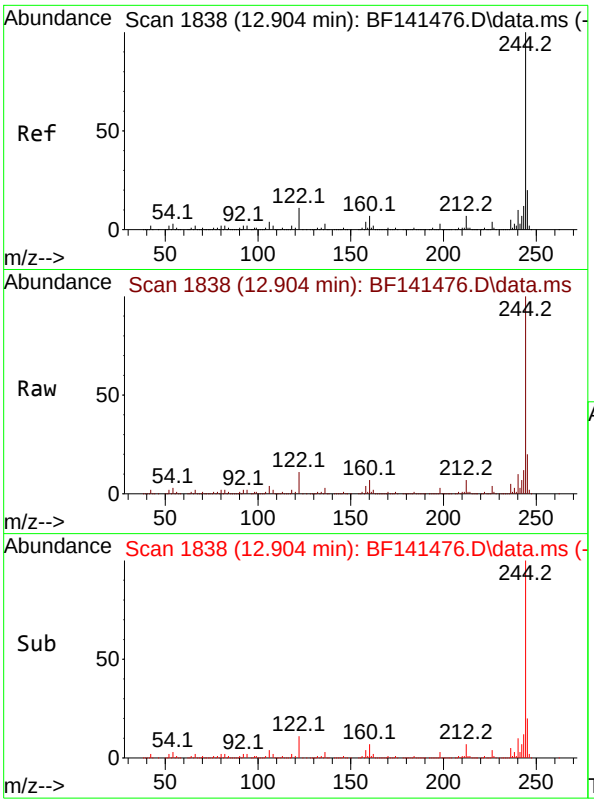


#78
Pyrene
Concen: 41.002 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:202 Resp: 786956

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5



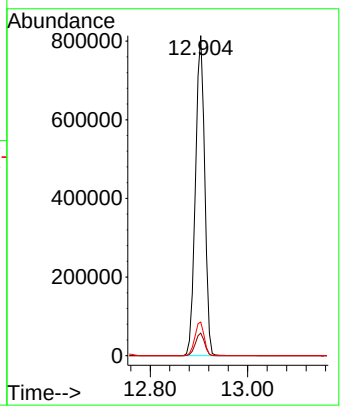


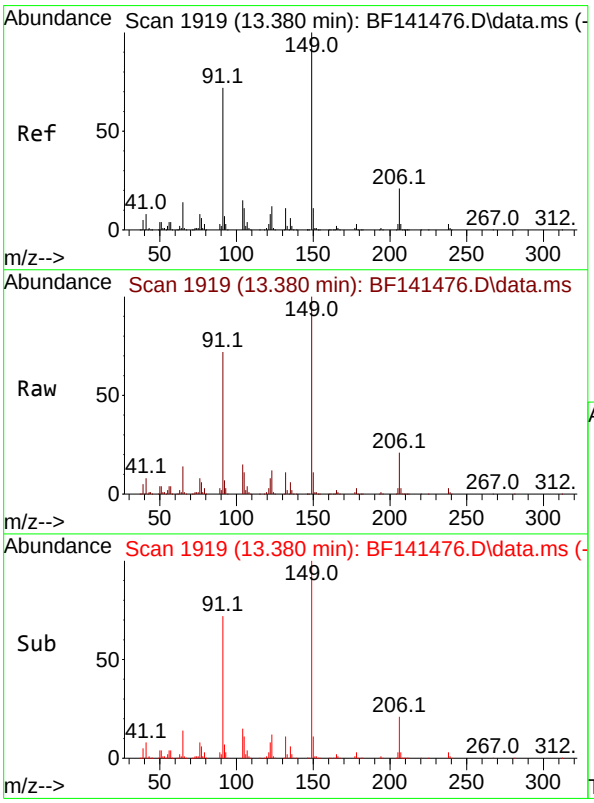
#79
Terphenyl-d14
Concen: 80.879 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 1080174

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.5	8.4	12.6

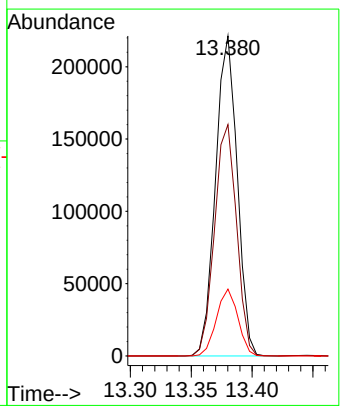


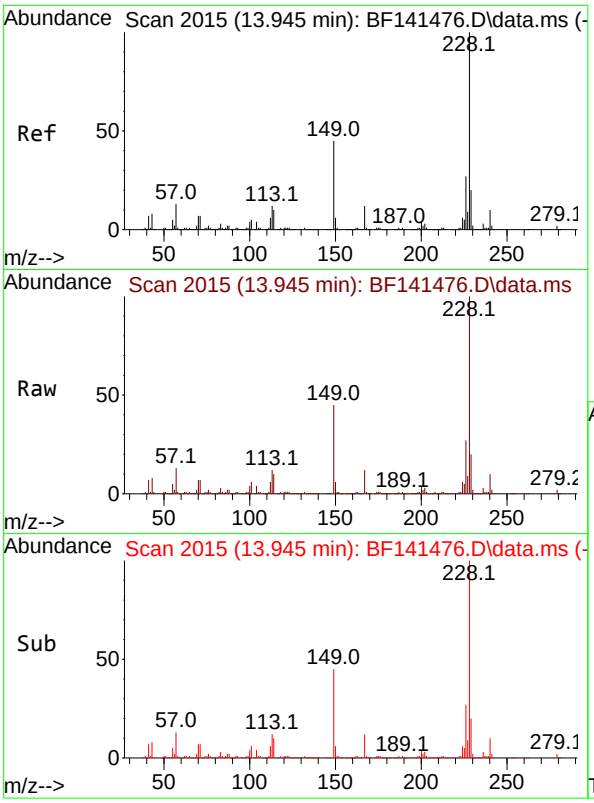


#80
Butylbenzylphthalate
Concen: 41.323 ng
RT: 13.380 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 274711

Ion	Ratio	Lower	Upper
149	100		
91	72.3	57.8	86.8
206	20.9	16.7	25.1



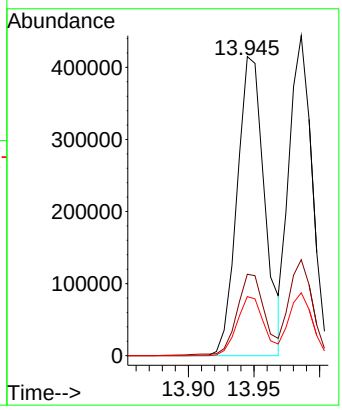


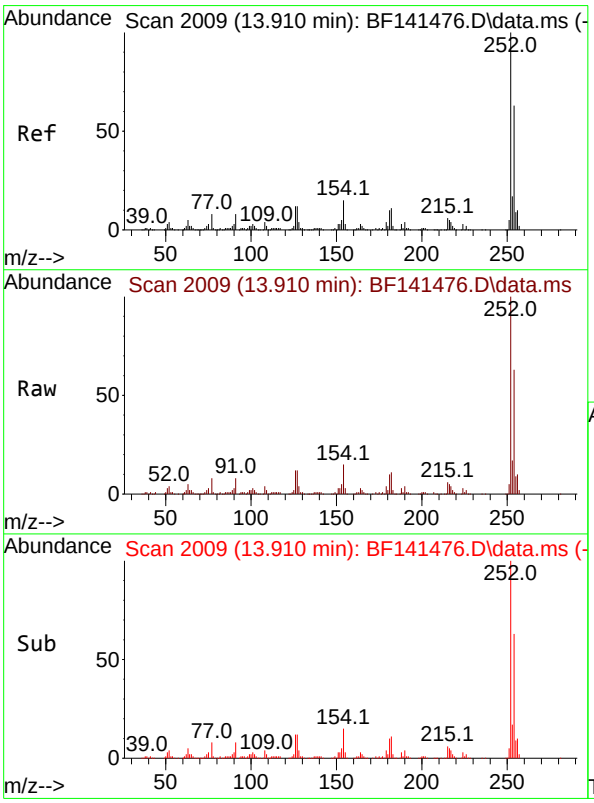
#81
Benzo(a)anthracene
Concen: 40.479 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 606669

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	19.7	15.8	23.6

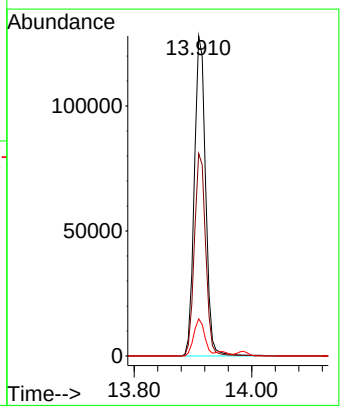


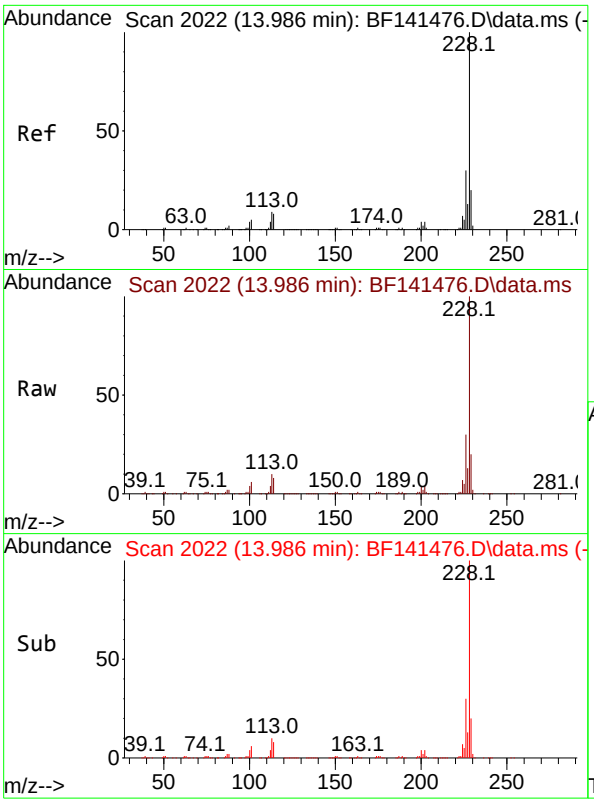


#82
3,3'-Dichlorobenzidine
Concen: 39.640 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:252 Resp: 170181

Ion	Ratio	Lower	Upper
252	100		
254	63.3	50.6	76.0
126	11.6	9.3	13.9



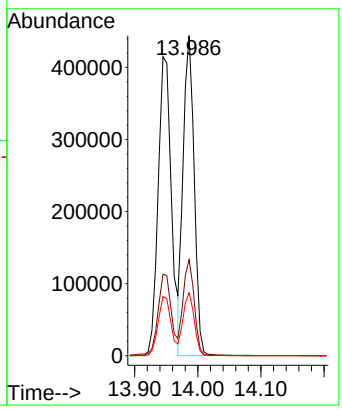


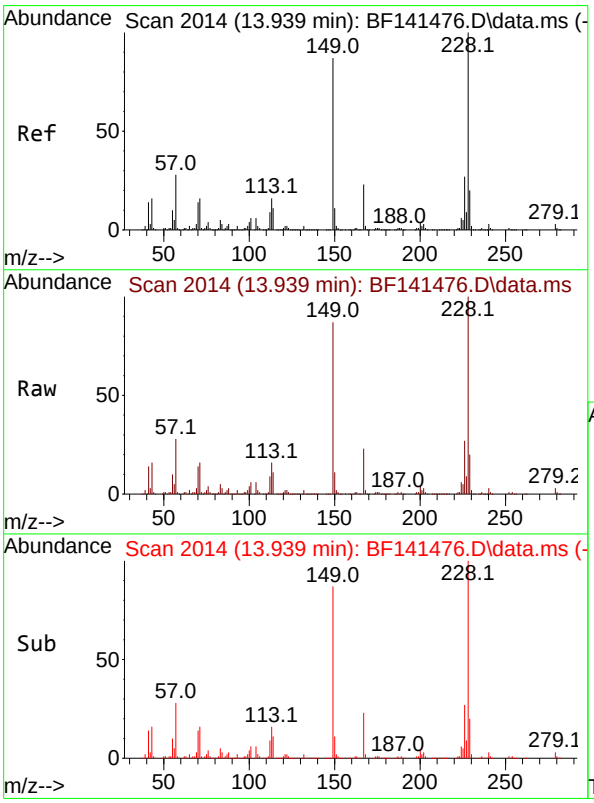
#83
Chrysene
Concen: 39.121 ng
RT: 13.986 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 541376

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.0	36.0
229	19.6	15.7	23.5

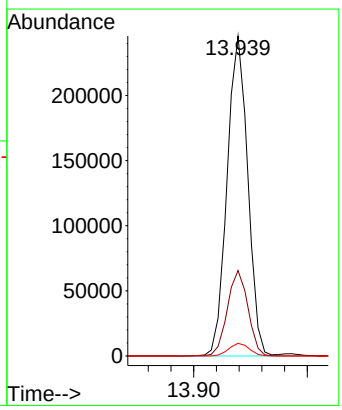


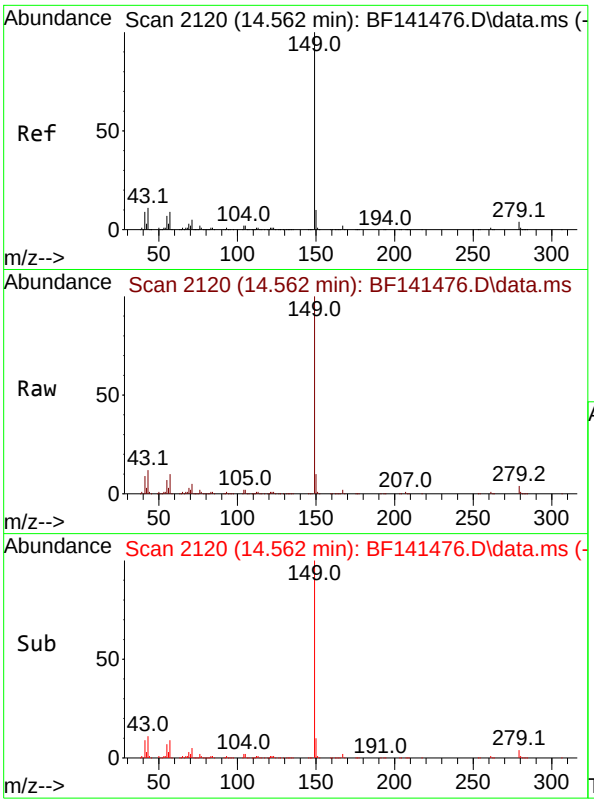


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.438 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 310696

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.0
279	3.9	3.1	4.7



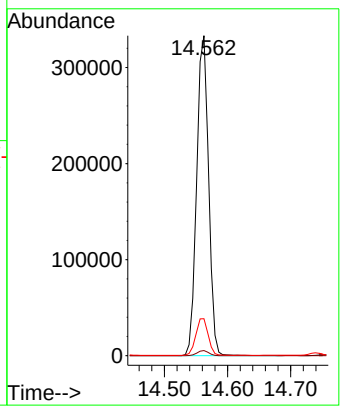


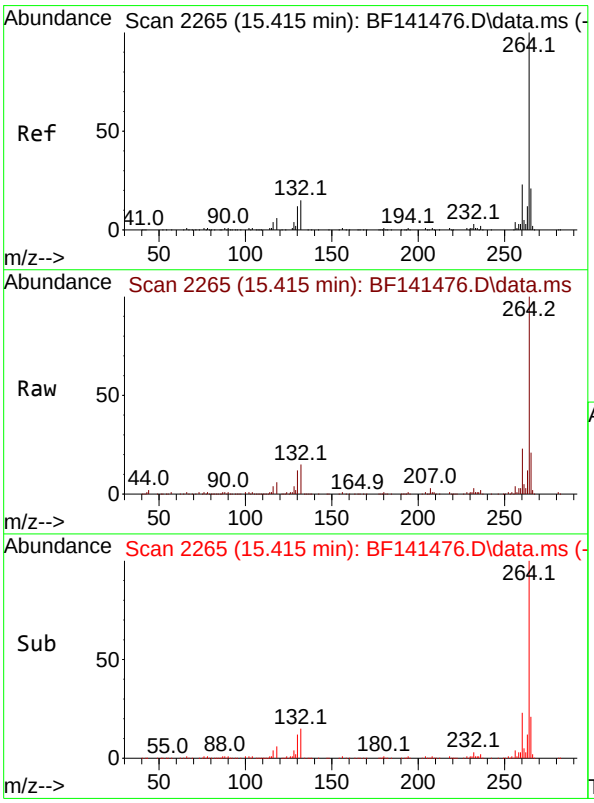
#85
Di-n-octyl phthalate
Concen: 40.682 ng
RT: 14.562 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 435142

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.9	9.5	14.3

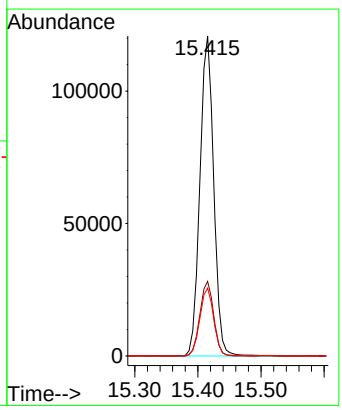


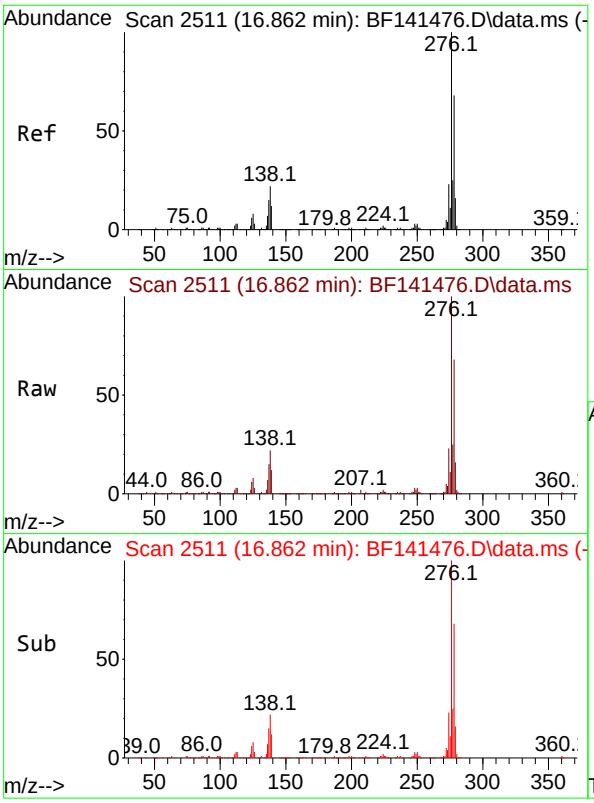


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:264 Resp: 182907

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.2	17.0	25.4



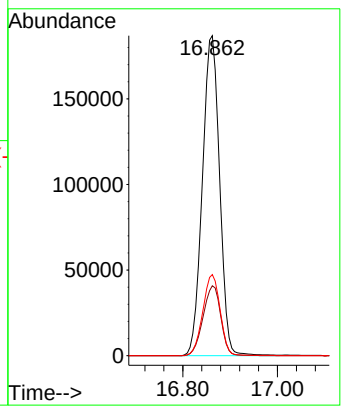


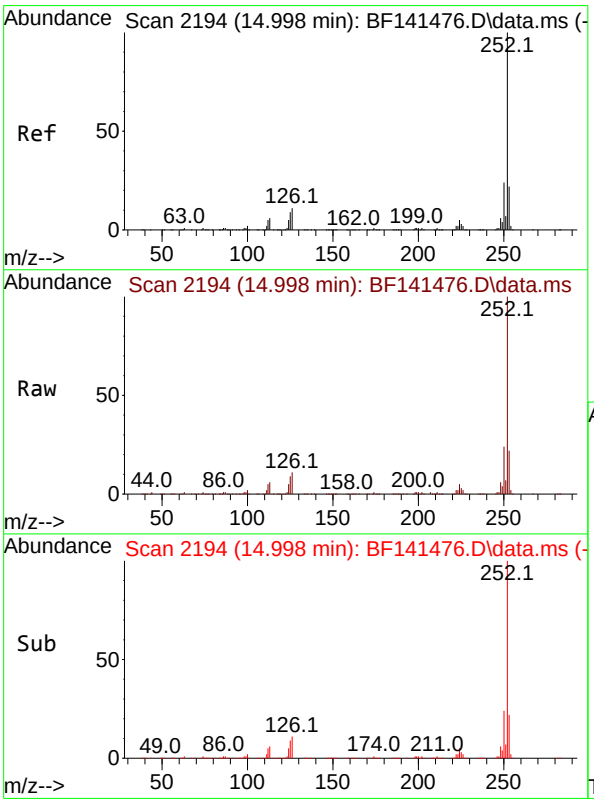
#87
Indeno(1,2,3-cd)pyrene
Concen: 41.699 ng
RT: 16.862 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 471272

Ion	Ratio	Lower	Upper
276	100		
138	22.5	18.0	27.0
277	25.5	20.4	30.6

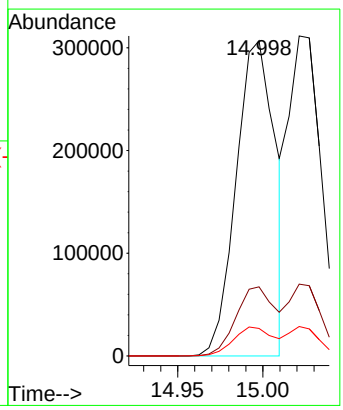


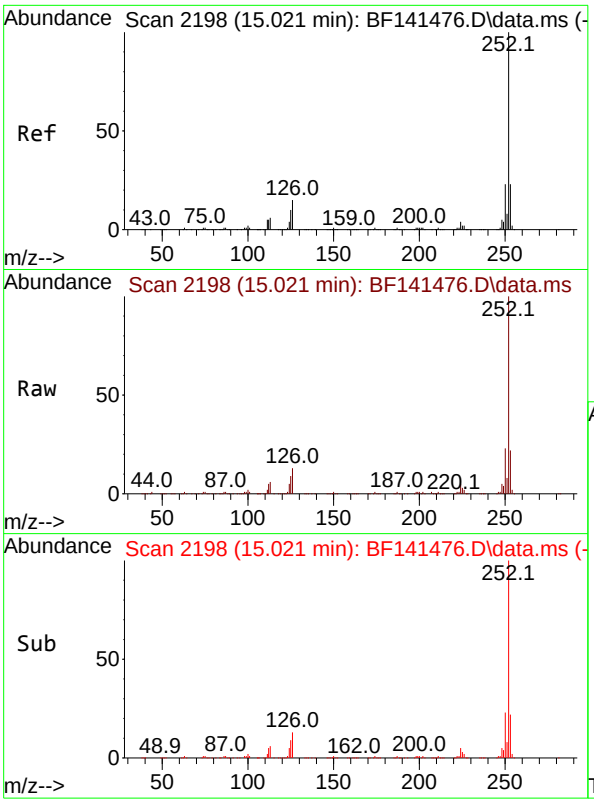


#88
Benzo(b)fluoranthene
Concen: 39.783 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:252 Resp: 488585

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	8.8	7.0	10.6



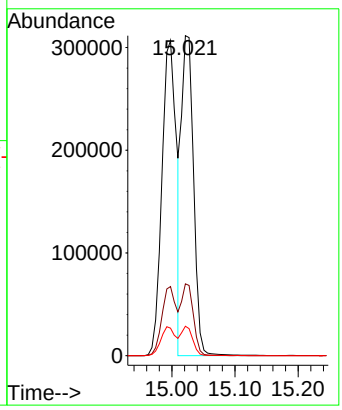


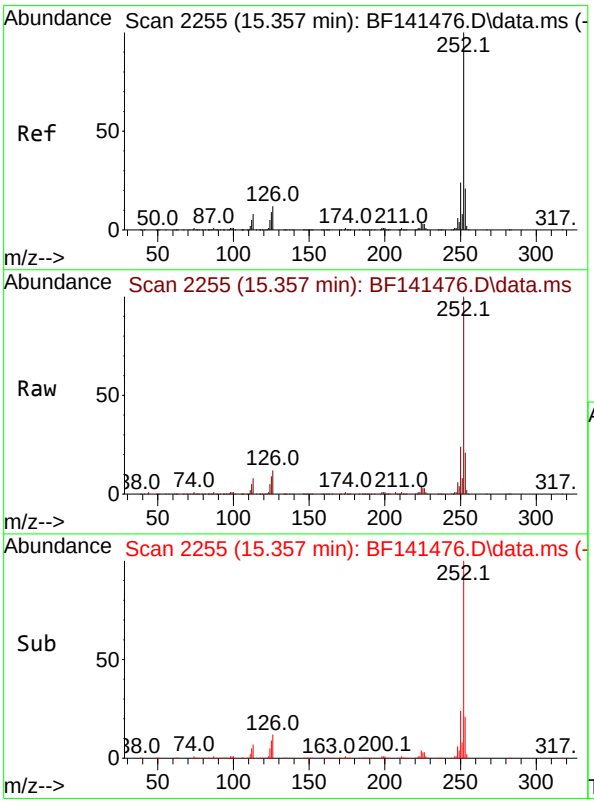
#89
Benzo(k)fluoranthene
Concen: 39.836 ng
RT: 15.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 417770

Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.0	27.0
125	9.2	7.4	11.0

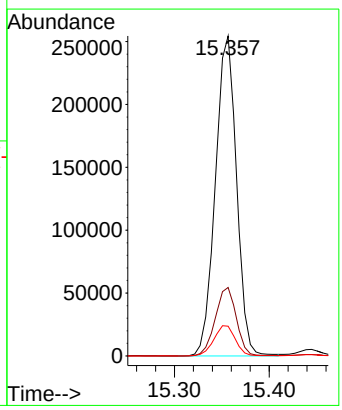


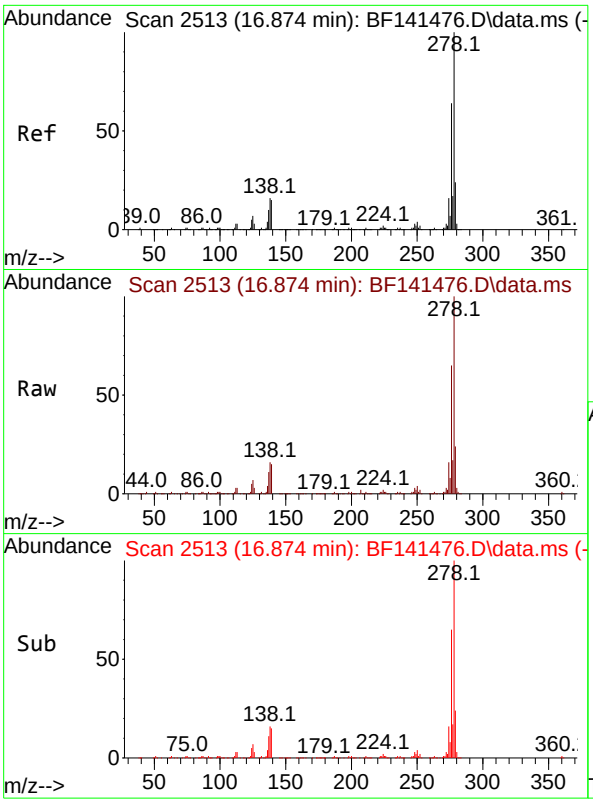


#90
Benzo(a)pyrene
Concen: 39.767 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:252 Resp: 395193

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7
125	9.3	7.4	11.2



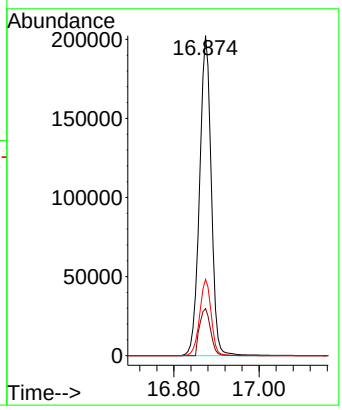


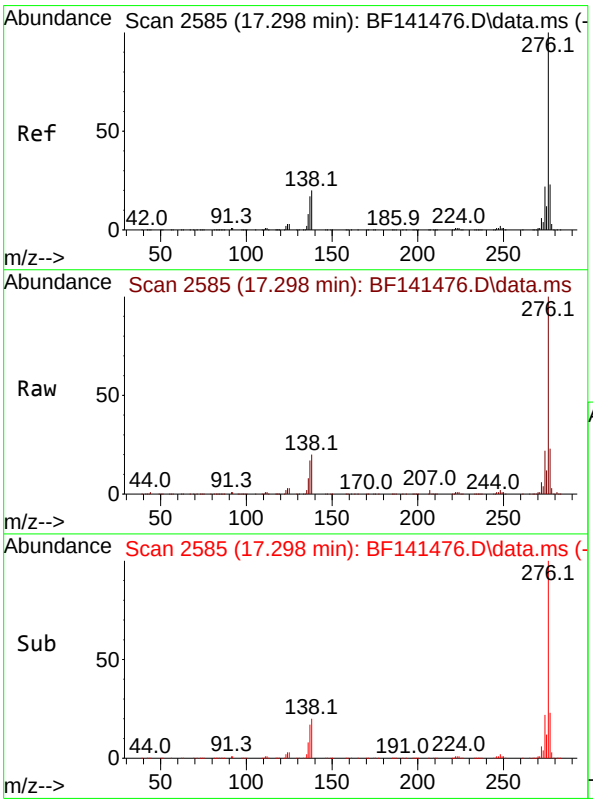
#91
Dibenzo(a,h)anthracene
Concen: 42.001 ng
RT: 16.874 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 384623

Ion	Ratio	Lower	Upper
278	100		
139	14.7	11.8	17.6
279	23.9	19.1	28.7

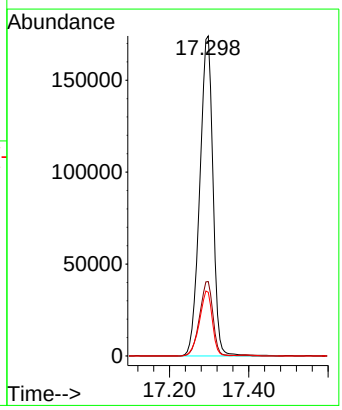




#92
Benzo(g,h,i)perylene
Concen: 41.992 ng
RT: 17.298 min Scan# 2585
Delta R.T. -0.018 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:276 Resp: 402413

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	19.9	15.9	23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141477.D
Acq On : 06 Feb 2025 13:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 06 16:00:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	87860	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	347298	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	190523	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	323702	20.000	ng	0.00
76) Chrysene-d12	13.963	240	205879	20.000	ng	0.00
86) Perylene-d12	15.415	264	174906	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	559309	99.801	ng	0.00
7) Phenol-d6	6.434	99	702435	99.168	ng	0.00
23) Nitrobenzene-d5	7.357	82	657106	98.686	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	189178	98.845	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1182292	95.605	ng	0.00
79) Terphenyl-d14	12.904	244	1244053	102.010	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.481	88	110258	48.882	ng	98
3) Pyridine	3.210	79	275985	51.419	ng	100
4) n-Nitrosodimethylamine	3.169	42	183299	51.575	ng	97
6) Aniline	6.457	93	330719	49.774	ng	86
8) 2-Chlorophenol	6.581	128	300380	49.604	ng	98
9) Benzaldehyde	6.340	77	164133	43.605	ng	99
10) Phenol	6.445	94	364380	49.425	ng	98
11) bis(2-Chloroethyl)ether	6.528	93	274892	49.643	ng	98
12) 1,3-Dichlorobenzene	6.728	146	316493	49.506	ng	98
13) 1,4-Dichlorobenzene	6.810	146	321786	49.264	ng	98
14) 1,2-Dichlorobenzene	6.963	146	296834	48.964	ng	99
15) Benzyl Alcohol	6.934	79	274040	50.451	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.069	45	465332	49.091	ng	97
17) 2-Methylphenol	7.051	107	232571	49.081	ng	100
18) Hexachloroethane	7.298	117	122071	50.498	ng	98
19) n-Nitroso-di-n-propyla...	7.210	70	207915	49.072	ng	98
20) 3+4-Methylphenols	7.204	107	295179	49.011	ng	96
22) Acetophenone	7.204	105	419759	48.588	ng	99
24) Nitrobenzene	7.375	77	320155	49.308	ng	100
25) Isophorone	7.616	82	521533	49.123	ng	99
26) 2-Nitrophenol	7.692	139	164623	50.962	ng	96
27) 2,4-Dimethylphenol	7.734	122	189037	50.093	ng	98
28) bis(2-Chloroethoxy)met...	7.822	93	336274	49.430	ng	100
29) 2,4-Dichlorophenol	7.939	162	251518	49.328	ng	99
30) 1,2,4-Trichlorobenzene	8.016	180	270897	48.788	ng	99
31) Naphthalene	8.098	128	878692	48.605	ng	100
32) Benzoic acid	7.863	122	202728	51.719	ng	99
33) 4-Chloroaniline	8.151	127	312251	49.471	ng	99
34) Hexachlorobutadiene	8.210	225	163240	48.971	ng	99
35) Caprolactam	8.522	113	76350	49.180	ng	97
36) 4-Chloro-3-methylphenol	8.633	107	280911	49.736	ng	99
37) 2-Methylnaphthalene	8.786	142	572244	48.643	ng	99
38) 1-Methylnaphthalene	8.886	142	553503	48.579	ng	98
40) 1,2,4,5-Tetrachloroben...	8.951	216	266614	48.369	ng	98
41) Hexachlorocyclopentadiene	8.939	237	97674	53.276	ng	100
43) 2,4,6-Trichlorophenol	9.063	196	177503	49.825	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141477.D
Acq On : 06 Feb 2025 13:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 06 16:00:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

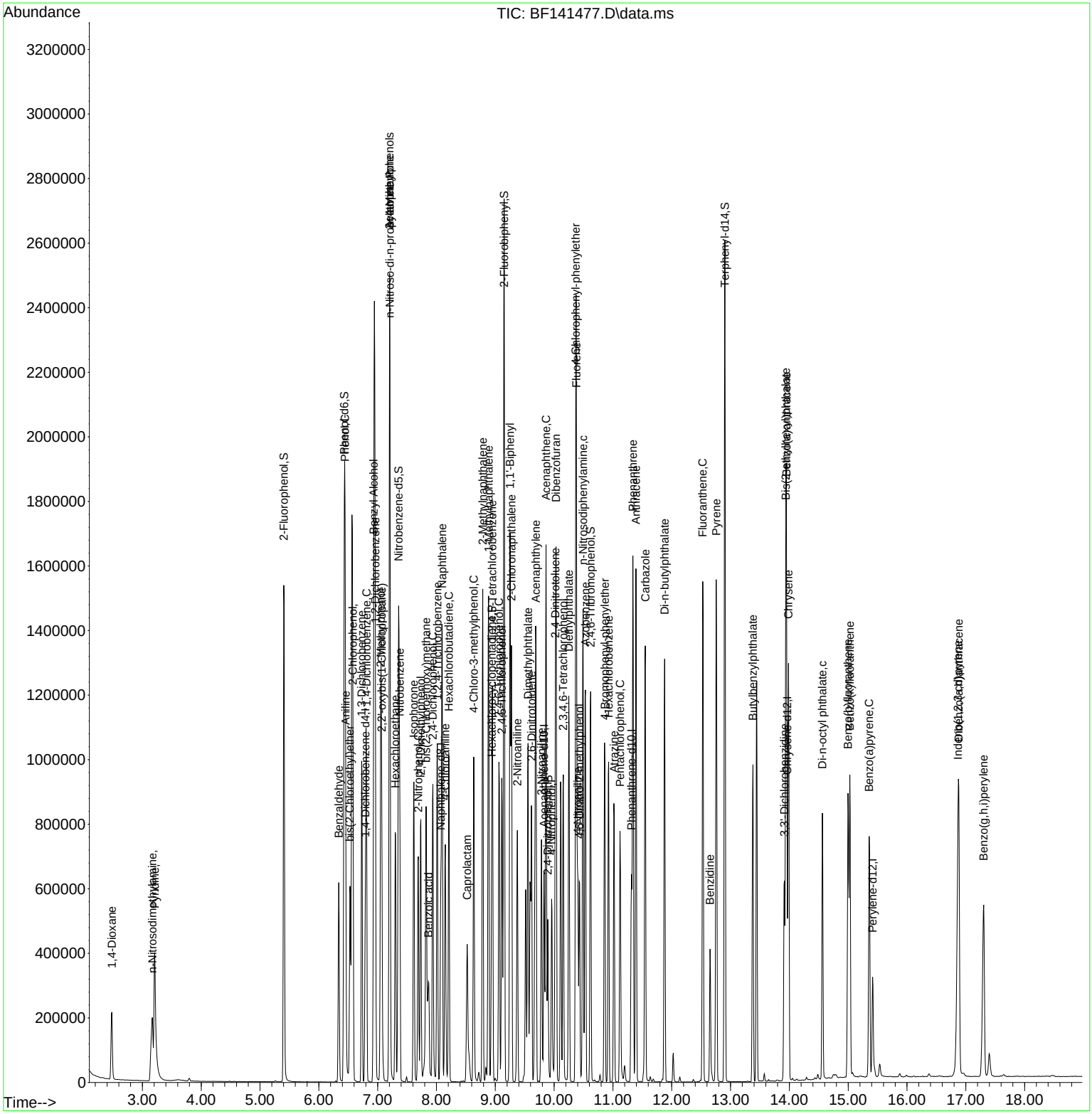
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	187902	48.667	ng	96
46) 1,1'-Biphenyl	9.251	154	722373	48.905	ng	100
47) 2-Chloronaphthalene	9.275	162	530577	48.576	ng	100
48) 2-Nitroaniline	9.375	65	181860	49.612	ng	99
49) Acenaphthylene	9.692	152	790730	48.672	ng	99
50) Dimethylphthalate	9.557	163	630673	48.760	ng	99
51) 2,6-Dinitrotoluene	9.616	165	140697	49.760	ng	98
52) Acenaphthene	9.863	154	527828	48.327	ng	100
53) 3-Nitroaniline	9.786	138	152426	50.087	ng	99
54) 2,4-Dinitrophenol	9.892	184	87953	52.339	ng	97
55) Dibenzofuran	10.033	168	777905	48.523	ng	100
56) 4-Nitrophenol	9.957	139	118835	52.603	ng	99
57) 2,4-Dinitrotoluene	10.022	165	185741	49.346	ng	98
58) Fluorene	10.380	166	590000	47.597	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	165559	49.807	ng	98
60) Diethylphthalate	10.251	149	619064	48.647	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	286530	48.048	ng	99
62) 4-Nitroaniline	10.404	138	151765	49.113	ng	99
63) Azobenzene	10.533	77	616638	48.742	ng	98
65) 4,6-Dinitro-2-methylph...	10.433	198	114725	51.021	ng	97
66) n-Nitrosodiphenylamine	10.492	169	505770	48.810	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	177761	49.135	ng	98
68) Hexachlorobenzene	10.927	284	180930	48.567	ng	98
69) Atrazine	11.022	200	149758	48.175	ng	98
70) Pentachlorophenol	11.122	266	128081	53.769	ng	99
71) Phenanthrene	11.339	178	866517	48.631	ng	100
72) Anthracene	11.392	178	877393	48.984	ng	99
73) Carbazole	11.551	167	781733	48.504	ng	100
74) Di-n-butylphthalate	11.880	149	915782	49.210	ng	100
75) Fluoranthene	12.527	202	913699	48.367	ng	100
77) Benzidine	12.651	184	222606	49.026	ng	99
78) Pyrene	12.757	202	913198	52.106	ng	100
80) Butylbenzylphthalate	13.380	149	310612	51.168	ng	99
81) Benzo(a)anthracene	13.951	228	673785	49.234	ng	100
82) 3,3'-Dichlorobenzidine	13.915	252	186802	47.650	ng	98
83) Chrysene	13.986	228	625572	49.505	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	350121	51.138	ng	100
85) Di-n-octyl phthalate	14.563	149	519741	53.213	ng	99
87) Indeno(1,2,3-cd)pyrene	16.868	276	586584	54.277	ng	99
88) Benzo(b)fluoranthene	14.998	252	590149	50.251	ng	99
89) Benzo(k)fluoranthene	15.027	252	469466	46.814	ng	100
90) Benzo(a)pyrene	15.357	252	467288	49.173	ng	99
91) Dibenzo(a,h)anthracene	16.880	278	477285	54.503	ng	99
92) Benzo(g,h,i)perylene	17.304	276	500274	54.592	ng	99

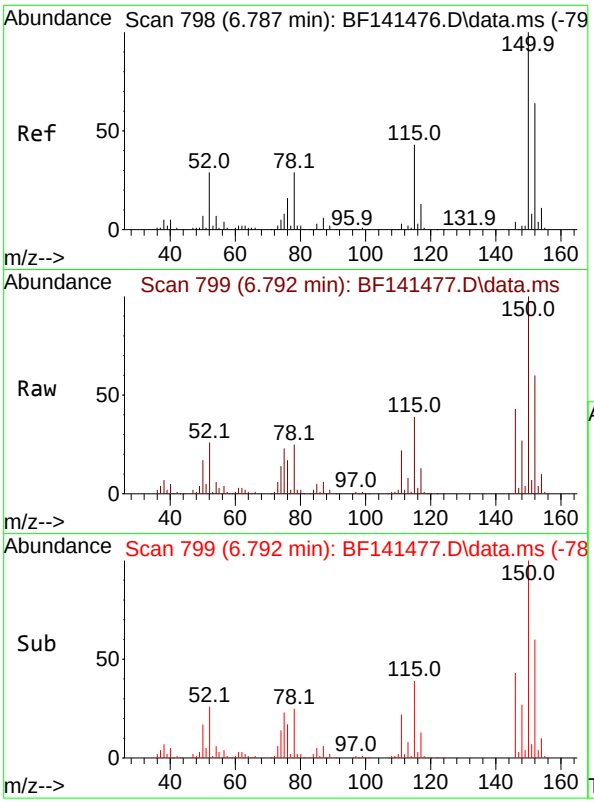
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141477.D
Acq On : 06 Feb 2025 13:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 06 16:00:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



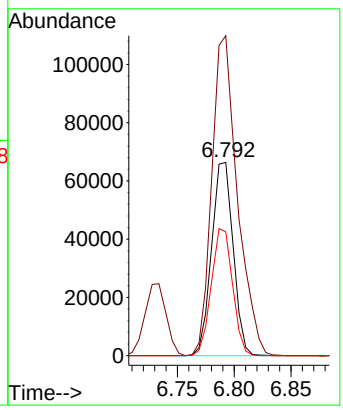


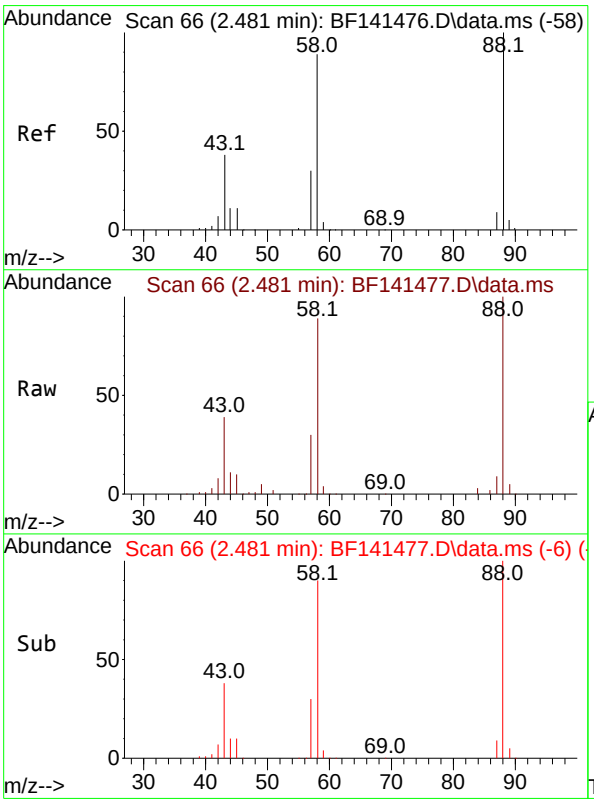
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 87860

Ion	Ratio	Lower	Upper
152	100		
150	165.6	125.0	187.4
115	64.1	53.6	80.4

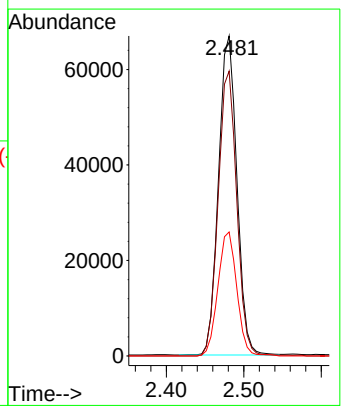


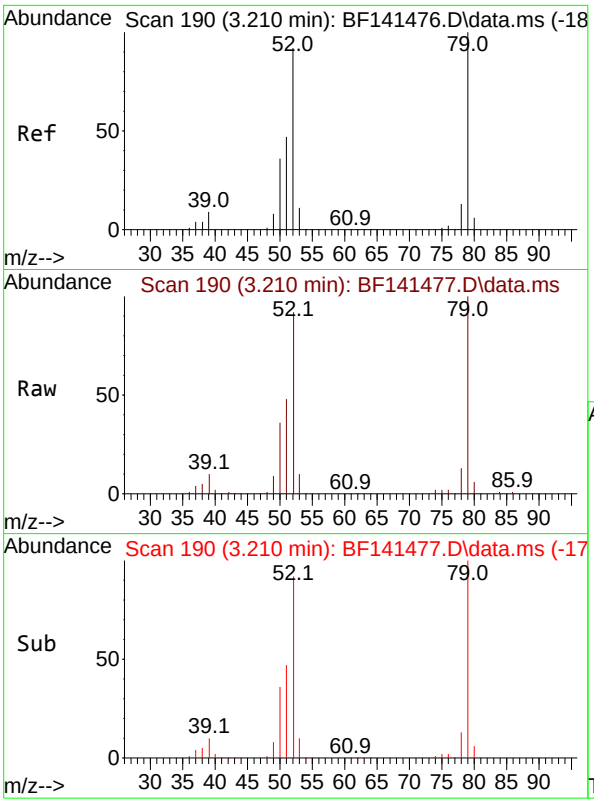


#2
1,4-Dioxane
Concen: 48.882 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 88 Resp: 110258

Ion	Ratio	Lower	Upper
88	100		
58	90.6	71.1	106.7
43	40.1	30.6	46.0



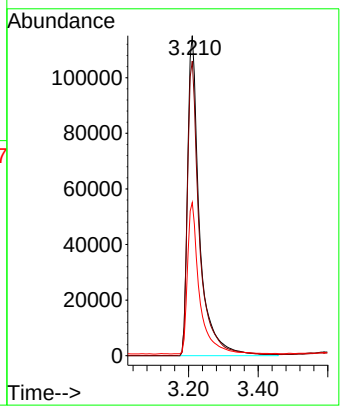


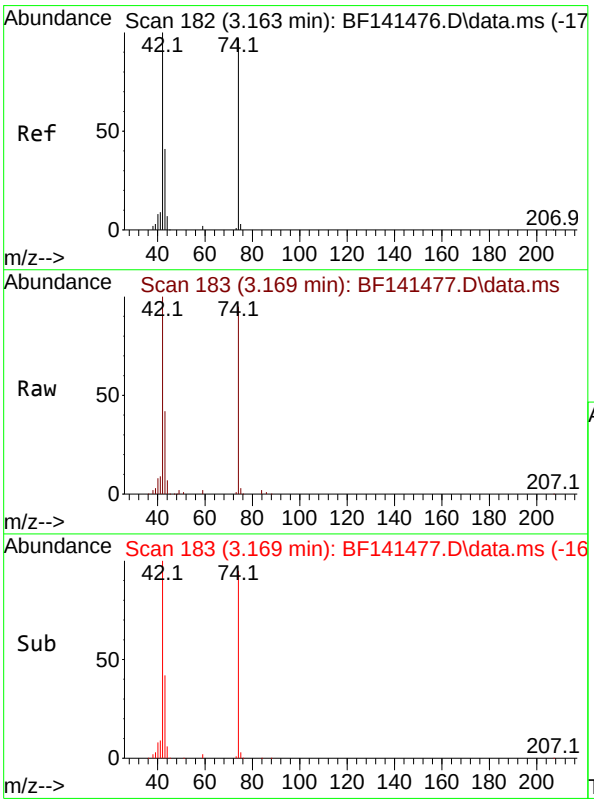
#3
Pyridine
Concen: 51.419 ng
RT: 3.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 275985

Ion	Ratio	Lower	Upper
79	100		
52	92.1	73.7	110.5
51	47.9	37.5	56.3

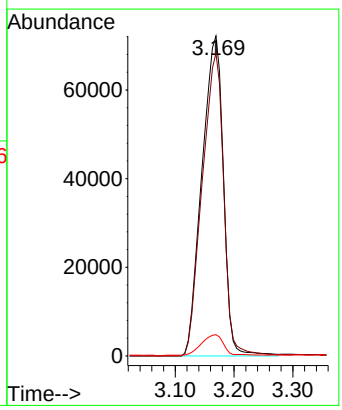


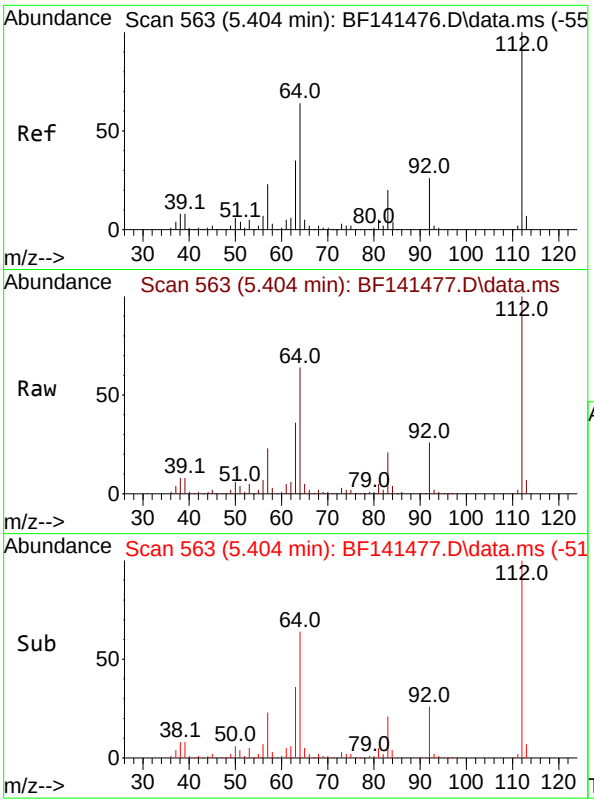


#4
n-Nitrosodimethylamine
Concen: 51.575 ng
RT: 3.169 min Scan# 183
Delta R.T. -0.018 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 42 Resp: 183299

Ion	Ratio	Lower	Upper
42	100		
74	94.6	78.0	117.0
44	6.7	5.4	8.2



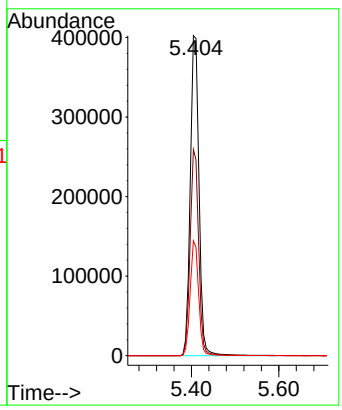


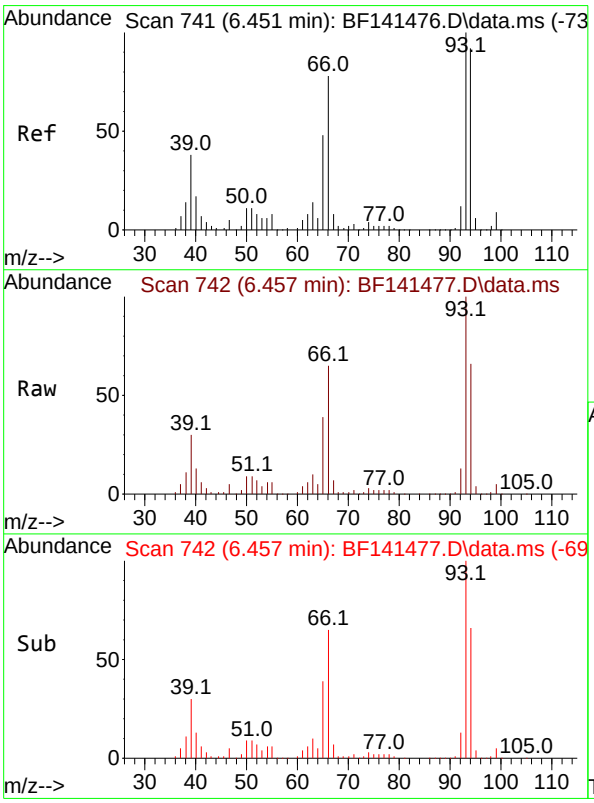
#5
2-Fluorophenol
Concen: 99.801 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 559309

Ion	Ratio	Lower	Upper
112	100		
64	64.4	51.1	76.7
63	35.9	28.4	42.6

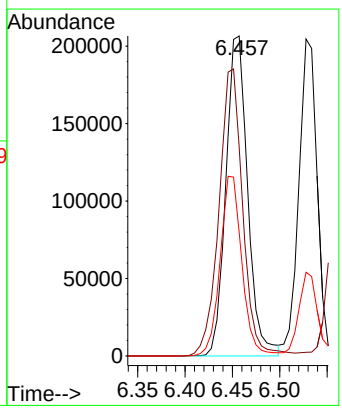


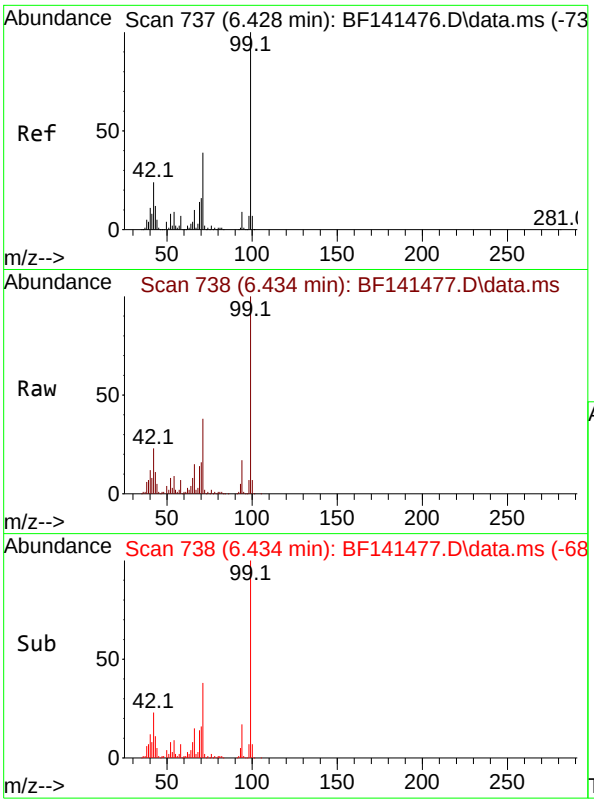


#6
Aniline
Concen: 49.774 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 93 Resp: 330719

Ion	Ratio	Lower	Upper
93	100		
66	65.4	62.6	94.0
65	38.7	38.3	57.5



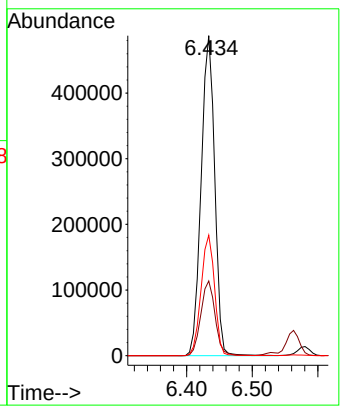


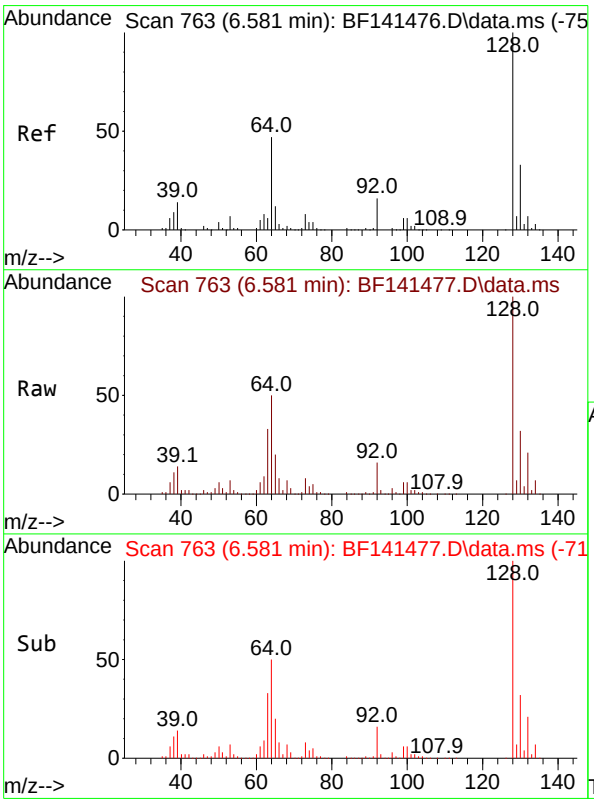
#7
Phenol-d6
Concen: 99.168 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 702435

Ion	Ratio	Lower	Upper
99	100		
42	23.4	19.1	28.7
71	37.6	31.1	46.7

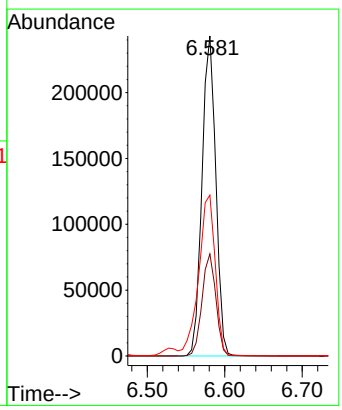


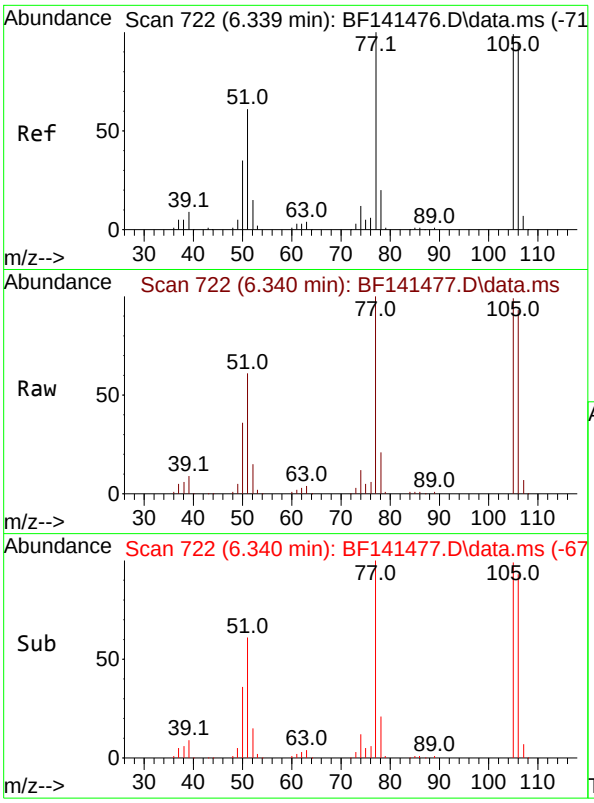


#8
2-Chlorophenol
Concen: 49.604 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:128 Resp: 300380

Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.7	52.7
64	50.3	28.3	68.3



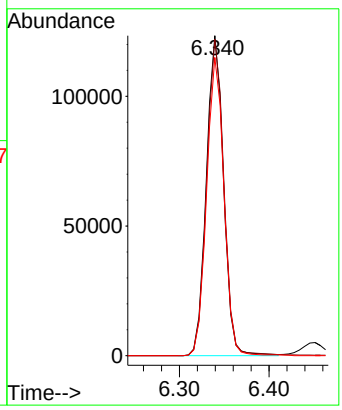


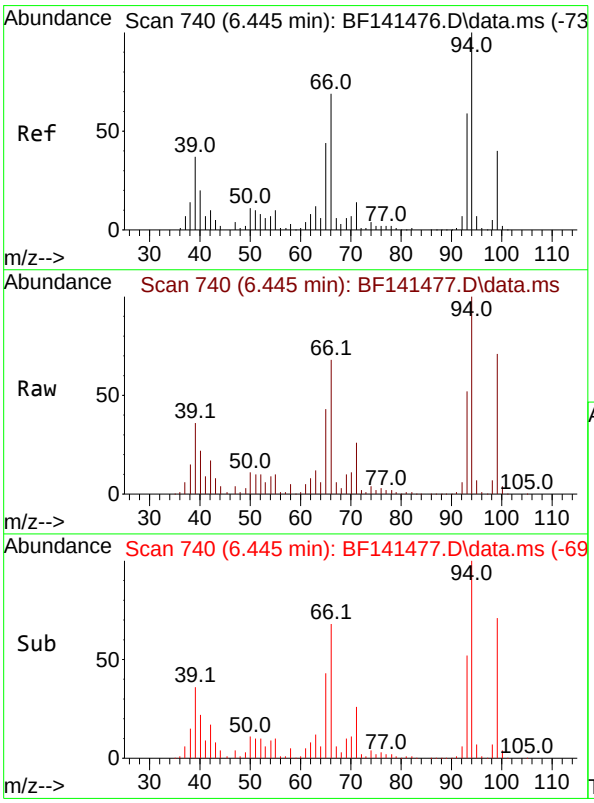
#9
Benzaldehyde
Concen: 43.605 ng
RT: 6.340 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 164133

Ion	Ratio	Lower	Upper
77	100		
105	98.9	79.4	119.4
106	93.2	75.1	115.1

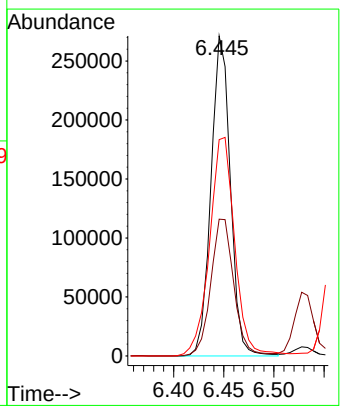


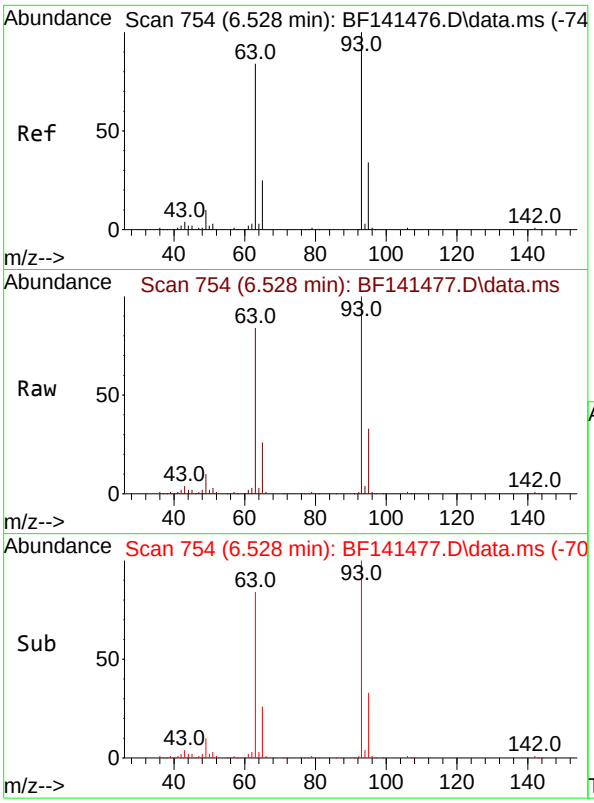


#10
Phenol
Concen: 49.425 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 94 Resp: 364380

Ion	Ratio	Lower	Upper
94	100		
65	42.8	23.7	63.7
66	67.6	49.3	89.3



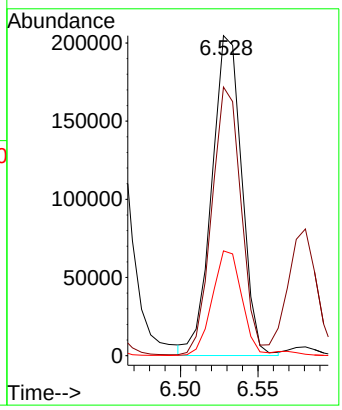


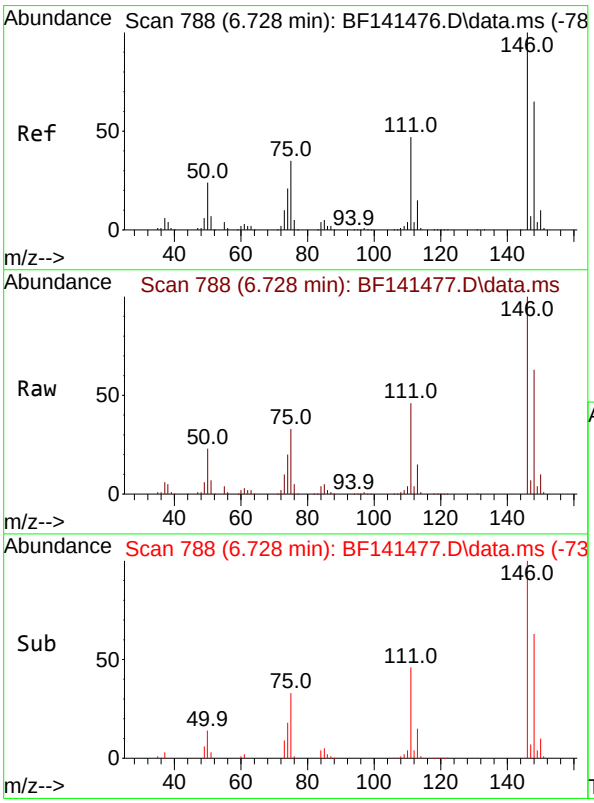
#11
bis(2-Chloroethyl)ether
Concen: 49.643 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 274892

Ion	Ratio	Lower	Upper
93	100		
63	83.9	62.0	102.0
95	32.8	12.6	52.6

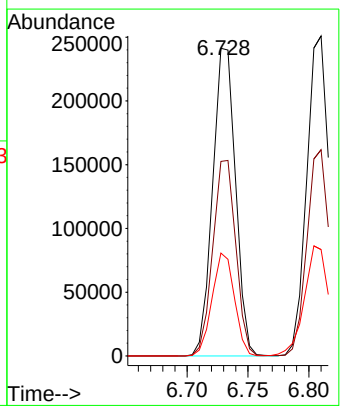


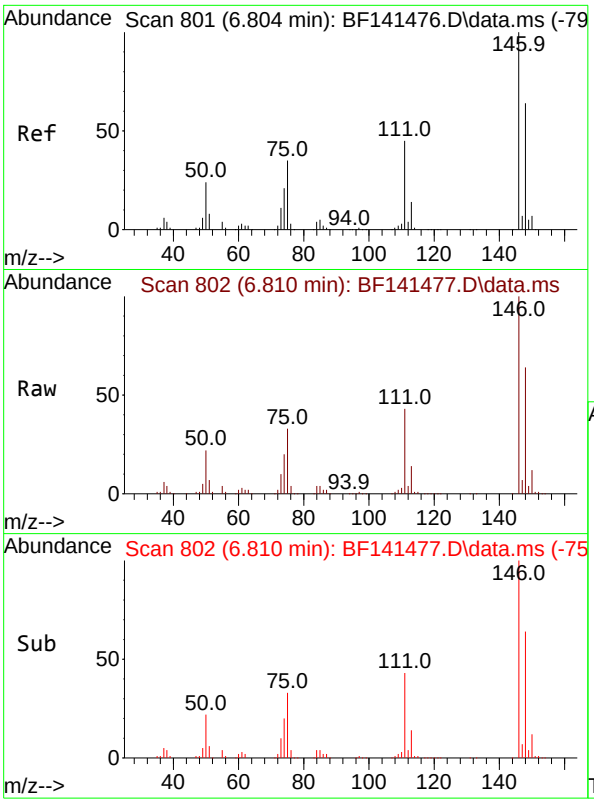


#12
1,3-Dichlorobenzene
Concen: 49.506 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:146 Resp: 316493

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.9	77.9
75	33.4	28.2	42.2



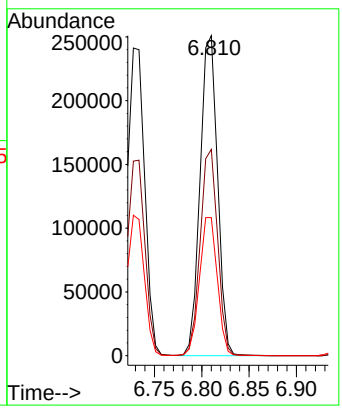


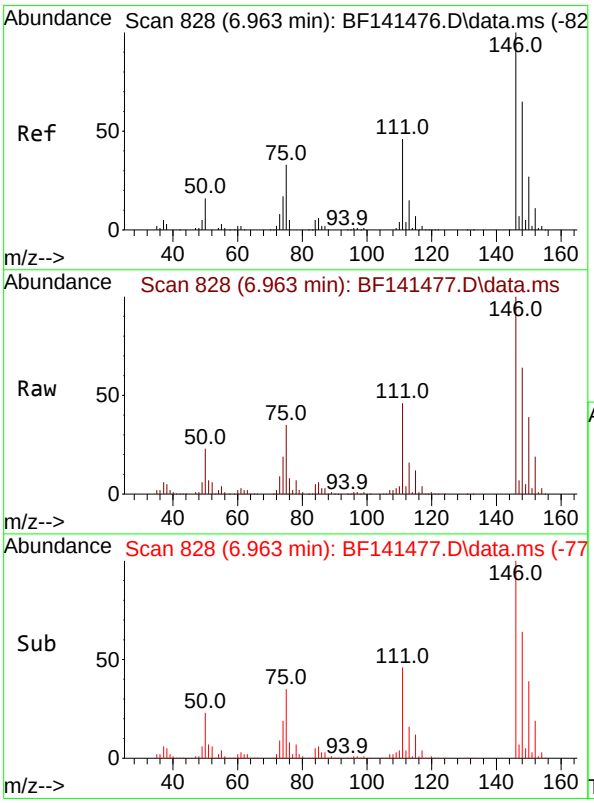
#13
1,4-Dichlorobenzene
Concen: 49.264 ng
RT: 6.810 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 321786

Ion	Ratio	Lower	Upper
146	100		
148	64.5	50.9	76.3
111	43.1	35.9	53.9

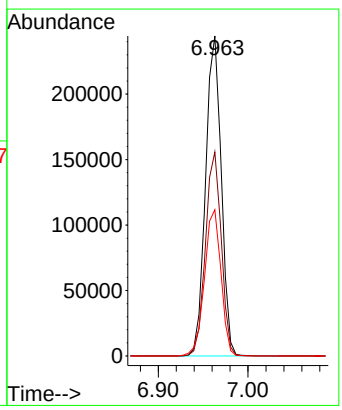


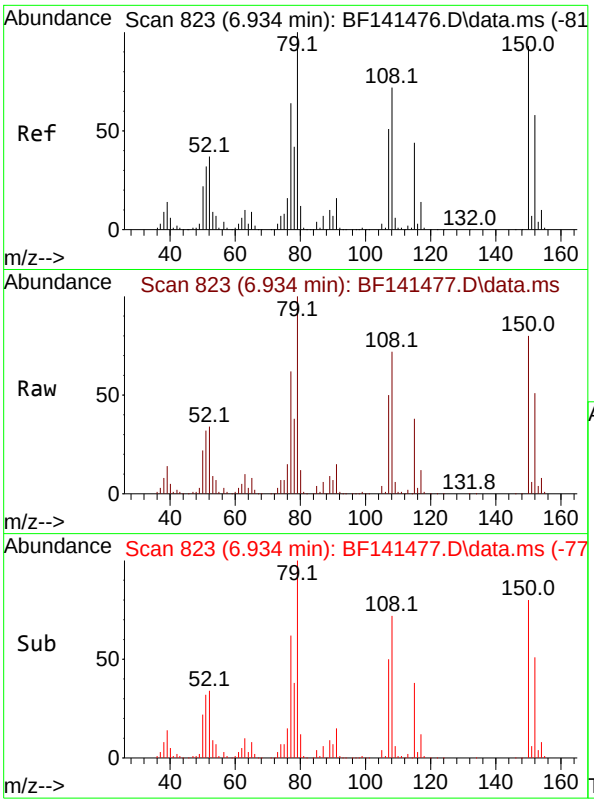


#14
1,2-Dichlorobenzene
Concen: 48.964 ng
RT: 6.963 min Scan# 828
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:146 Resp: 296834

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.8	77.6
111	45.7	37.0	55.4



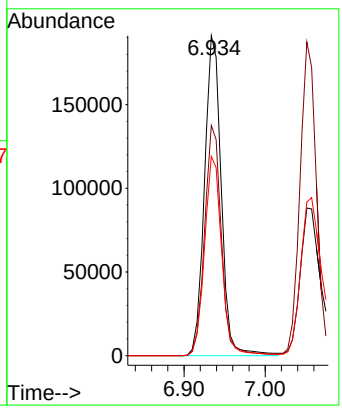


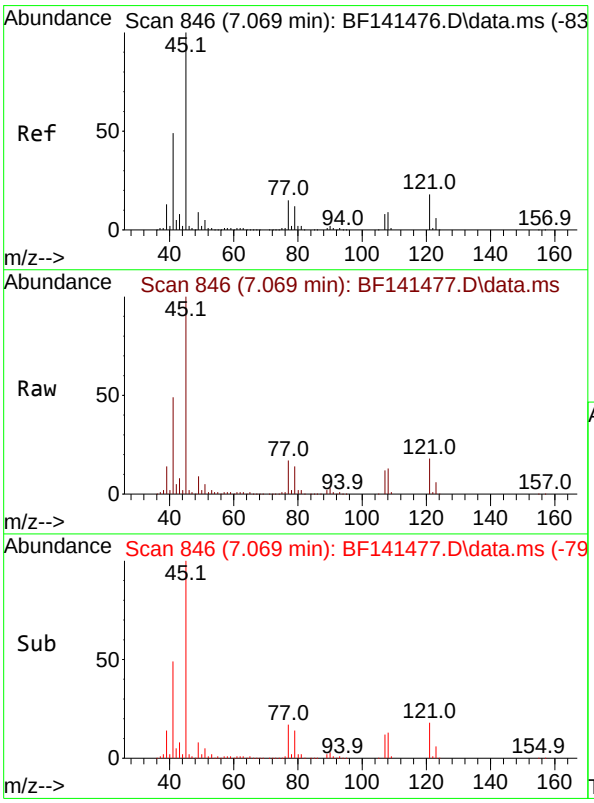
#15
Benzyl Alcohol
Concen: 50.451 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 274040

Ion	Ratio	Lower	Upper
79	100		
108	71.9	57.4	86.2
77	62.3	50.9	76.3

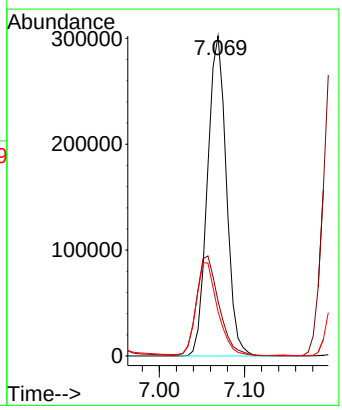


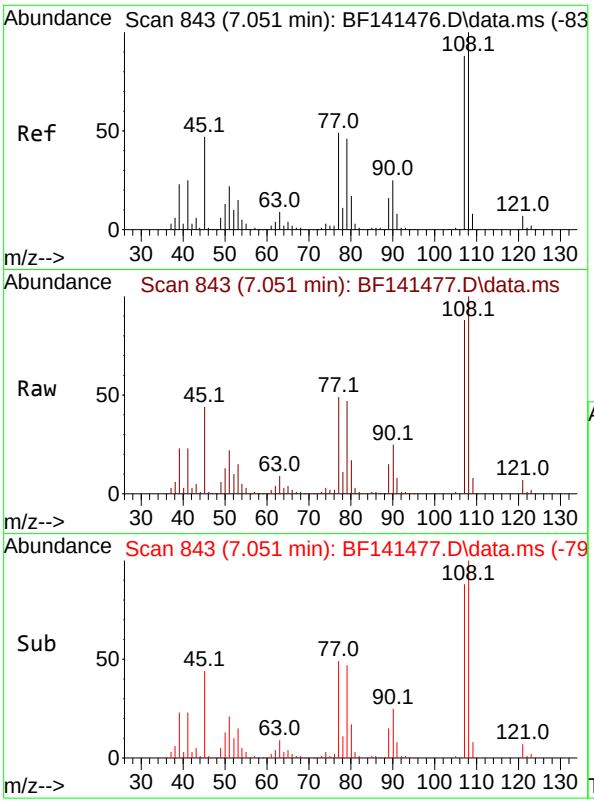


#16
2,2'-oxybis(1-Chloropropane)
Concen: 49.091 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 45 Resp: 465332

Ion	Ratio	Lower	Upper
45	100		
77	17.2	0.0	35.8
79	13.9	0.0	32.7



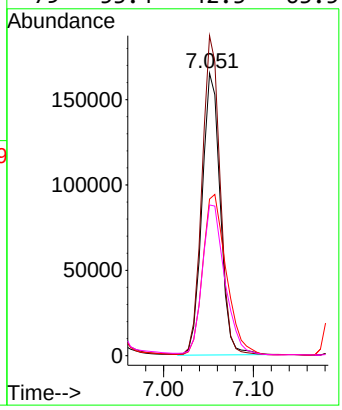


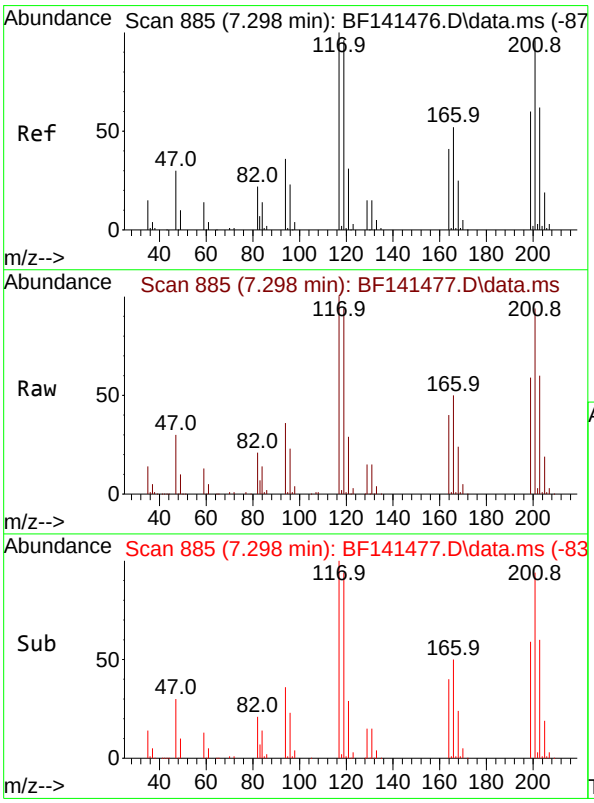
#17
2-Methylphenol
Concen: 49.081 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 232571

Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.6	136.0
77	55.4	44.4	66.6
79	53.4	42.3	63.5

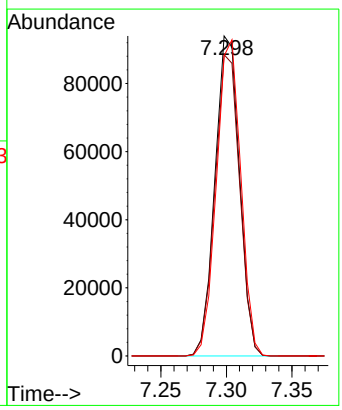


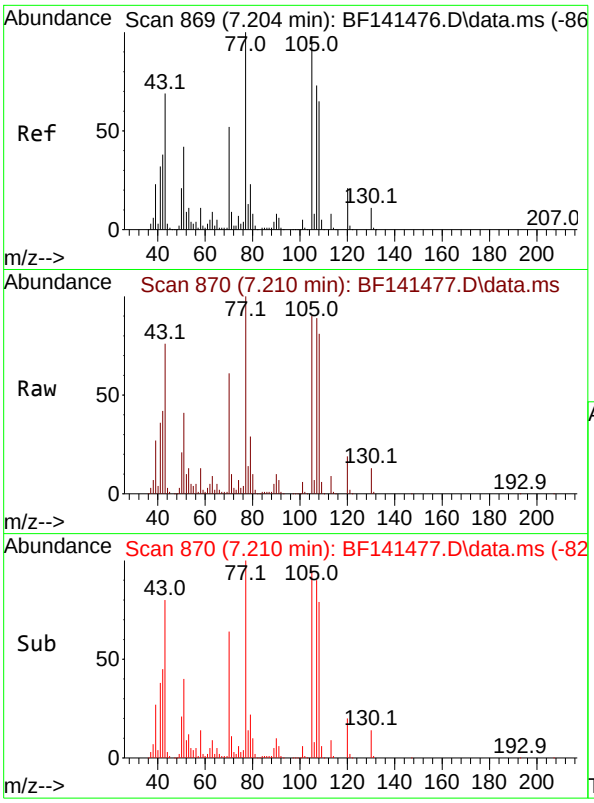


#18
Hexachloroethane
Concen: 50.498 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:117 Resp: 122071

Ion	Ratio	Lower	Upper
117	100		
119	94.2	76.5	114.7
201	93.8	76.7	115.1



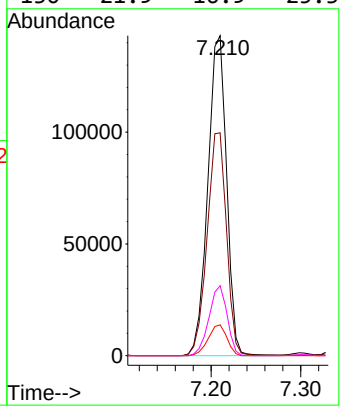


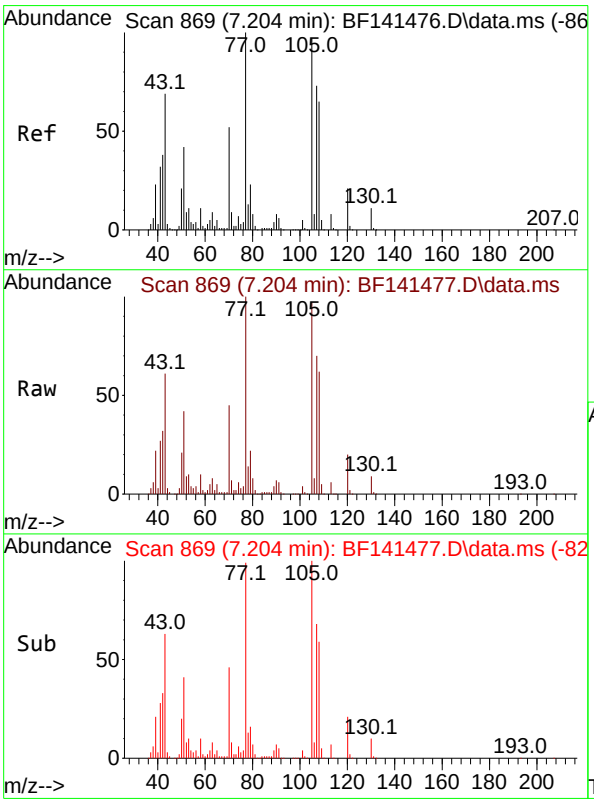
#19
n-Nitroso-di-n-propylamine
Concen: 49.072 ng
RT: 7.210 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 207915

Ion	Ratio	Lower	Upper
70	100		
42	69.6	57.4	86.2
101	9.6	8.0	12.0
130	21.9	16.9	25.3

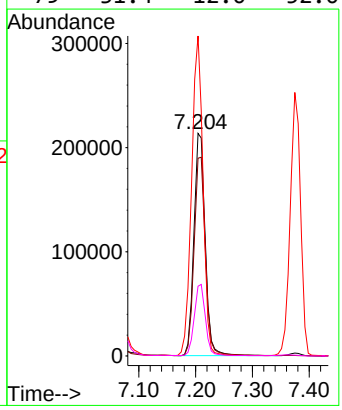


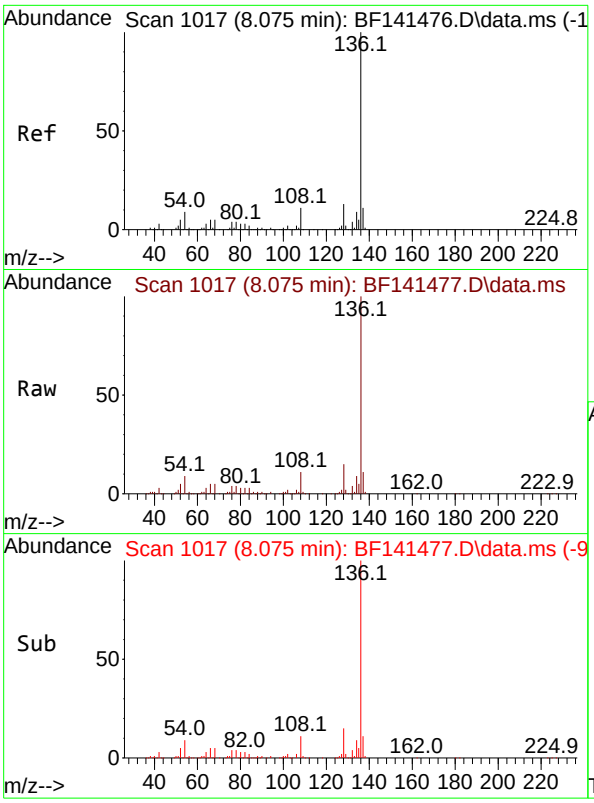


#20
3+4-Methylphenols
Concen: 49.011 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:107 Resp: 295179

Ion	Ratio	Lower	Upper
107	100		
108	88.9	68.5	108.5
77	143.8	116.5	156.5
79	31.4	12.0	52.0



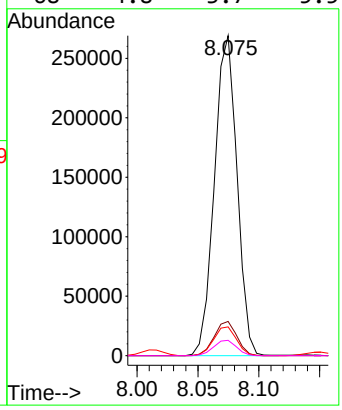


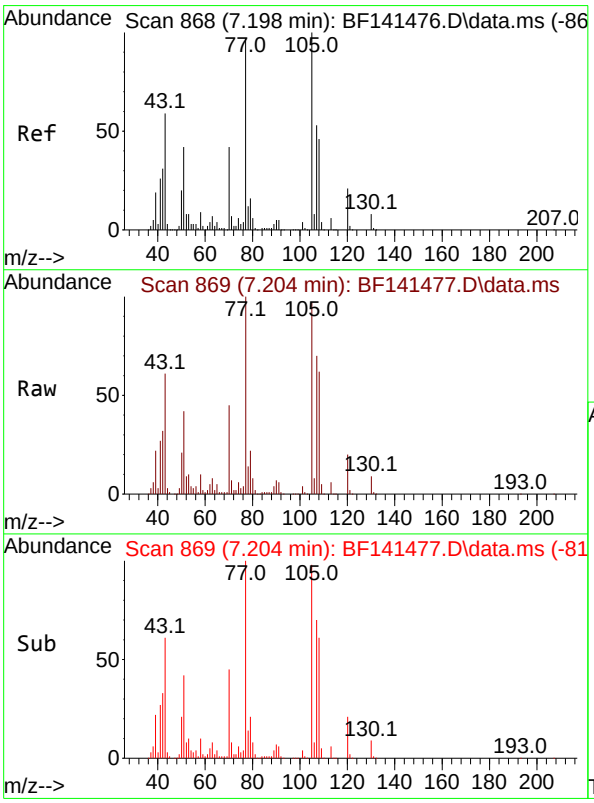
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 347298

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	9.0	7.2	10.8
68	4.8	3.7	5.5

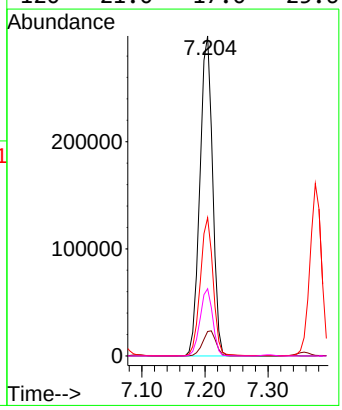


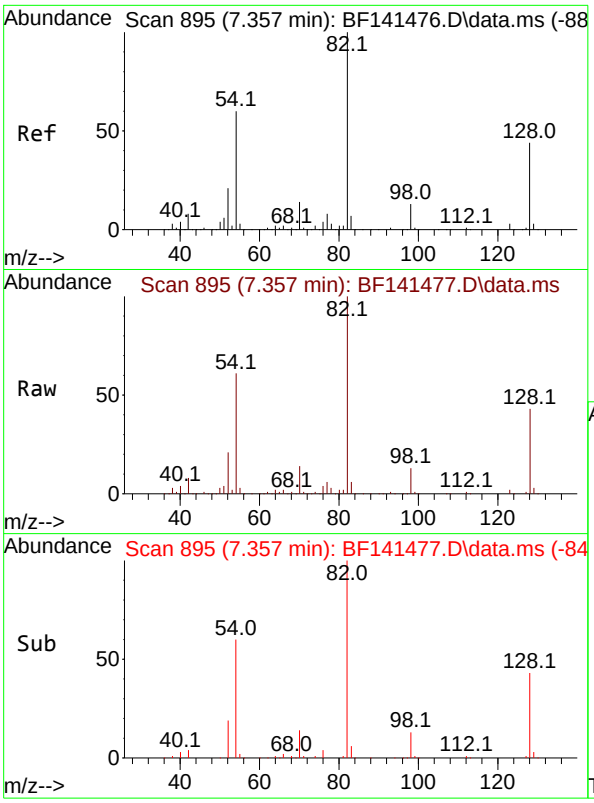


#22
Acetophenone
Concen: 48.588 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:105 Resp: 419759

Ion	Ratio	Lower	Upper
105	100		
71	7.7	5.7	8.5
51	43.2	33.7	50.5
120	21.0	17.0	25.6



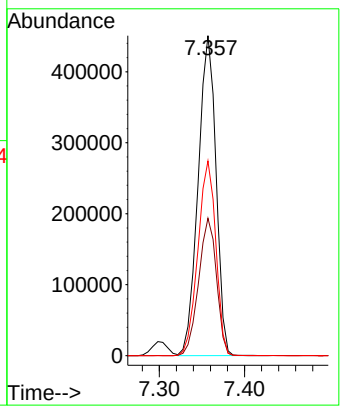


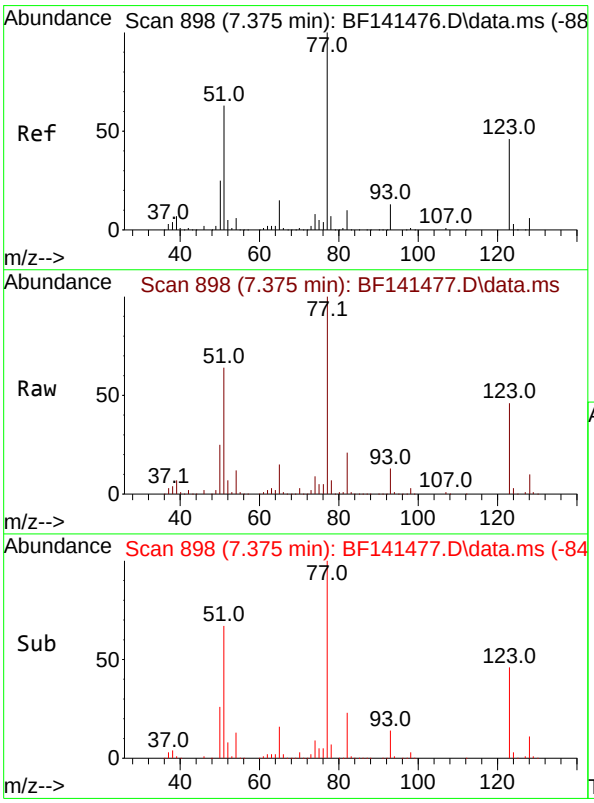
#23
Nitrobenzene-d5
Concen: 98.686 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 657106

Ion	Ratio	Lower	Upper
82	100		
128	42.9	34.8	52.2
54	60.9	48.2	72.4

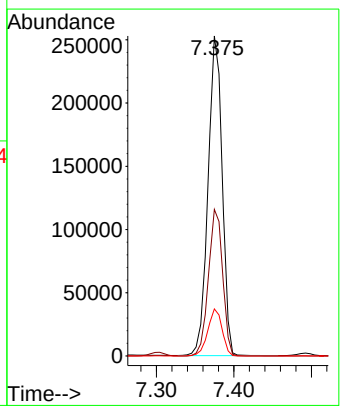


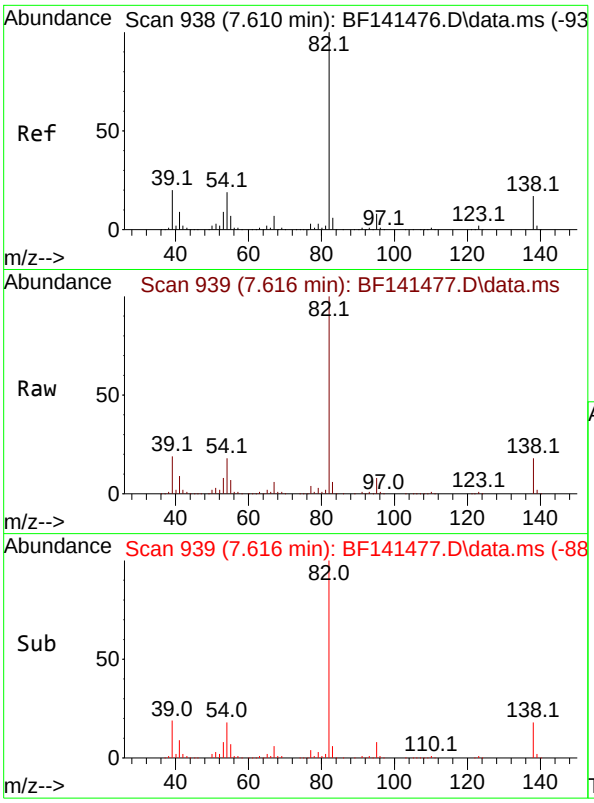


#24
Nitrobenzene
Concen: 49.308 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 77 Resp: 320155

Ion	Ratio	Lower	Upper
77	100		
123	45.8	36.9	55.3
65	14.7	11.9	17.9



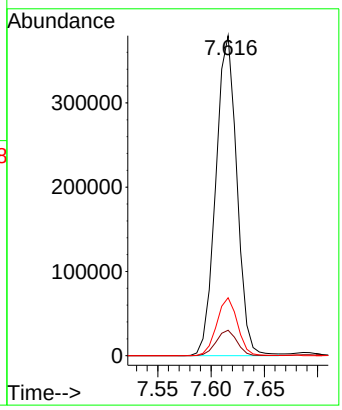


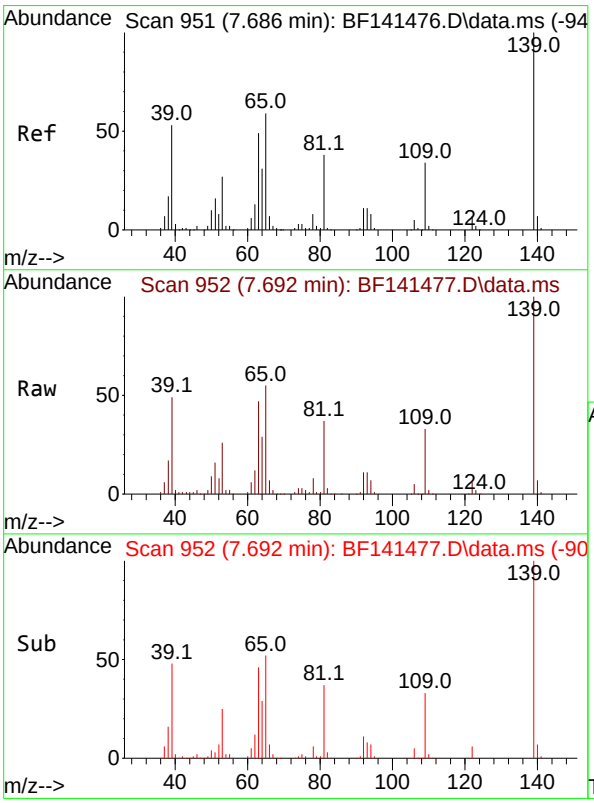
#25
Isophorone
Concen: 49.123 ng
RT: 7.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 521533

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.4	9.6
138	18.1	13.9	20.9

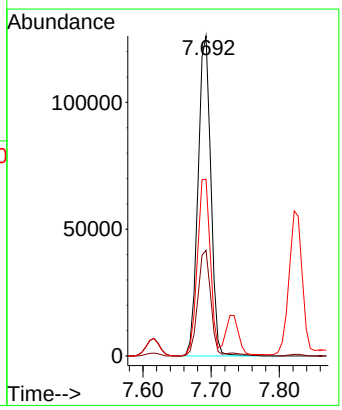


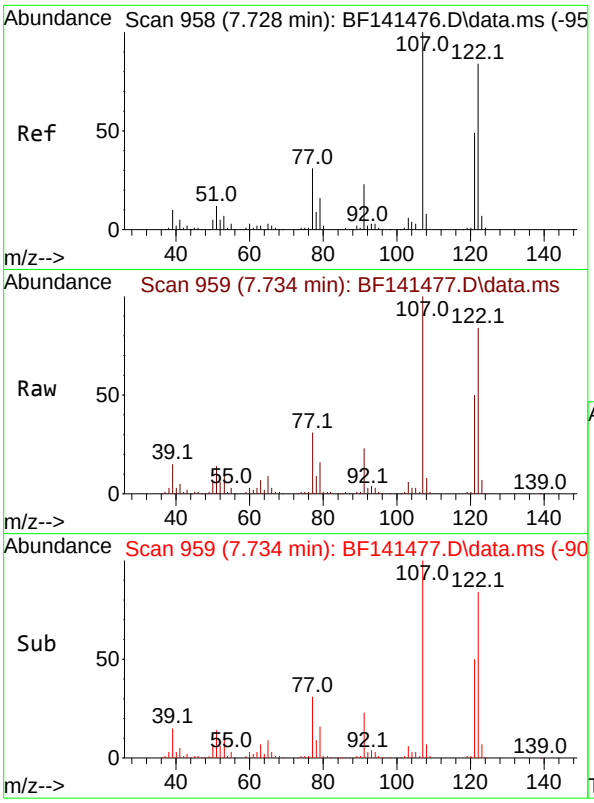


#26
2-Nitrophenol
Concen: 50.962 ng
RT: 7.692 min Scan# 952
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:139 Resp: 164623

Ion	Ratio	Lower	Upper
139	100		
109	33.0	27.0	40.6
65	55.3	47.1	70.7



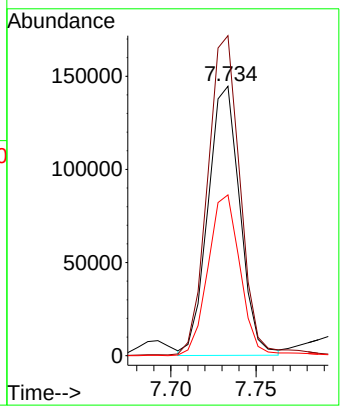


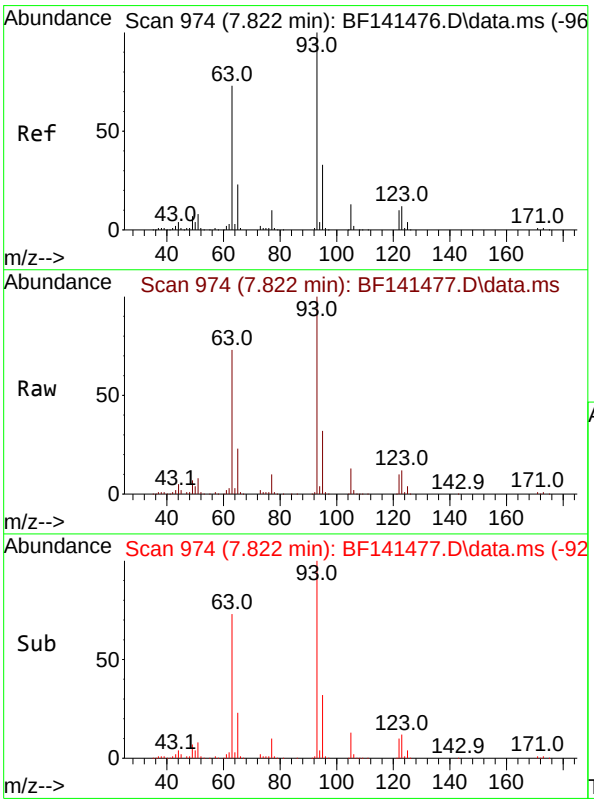
#27
2,4-Dimethylphenol
Concen: 50.093 ng
RT: 7.734 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 189037

Ion	Ratio	Lower	Upper
122	100		
107	118.8	94.3	141.5
121	59.7	46.0	69.0

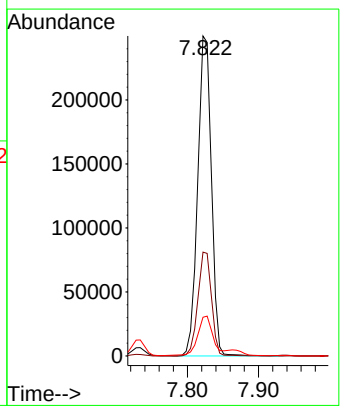


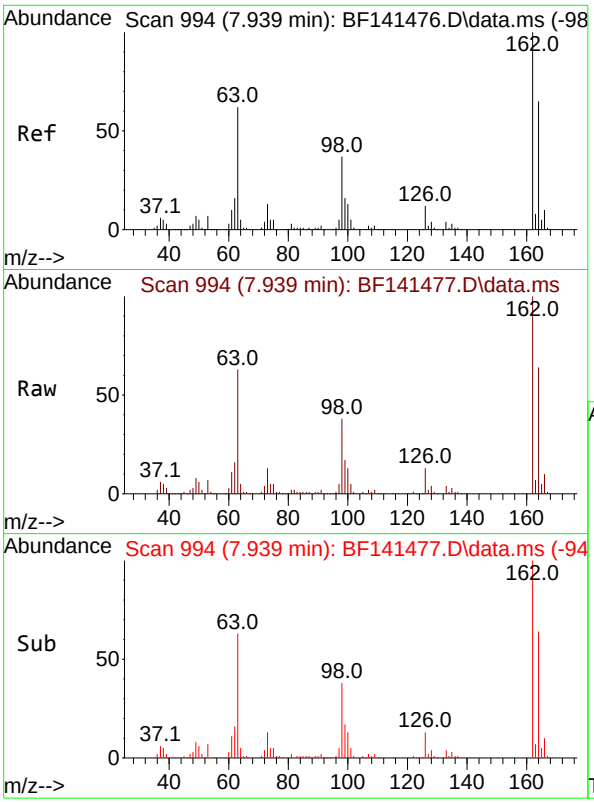


#28
bis(2-Chloroethoxy)methane
Concen: 49.430 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 93 Resp: 336274

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.1	39.1
123	12.1	9.5	14.3



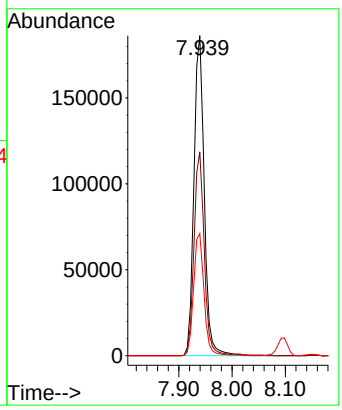


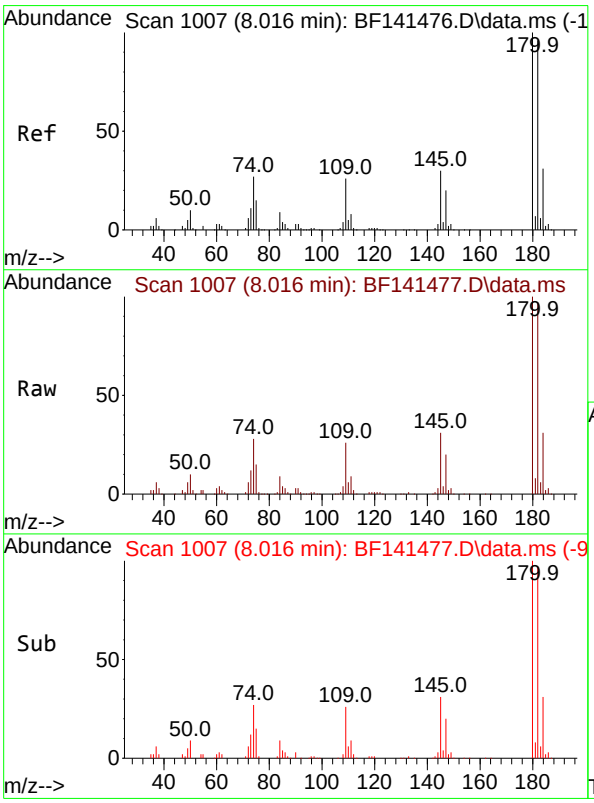
#29
2,4-Dichlorophenol
Concen: 49.328 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 251518

Ion	Ratio	Lower	Upper
162	100		
164	63.7	44.6	84.6
98	38.1	17.2	57.2

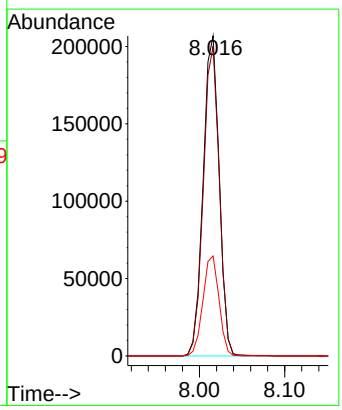


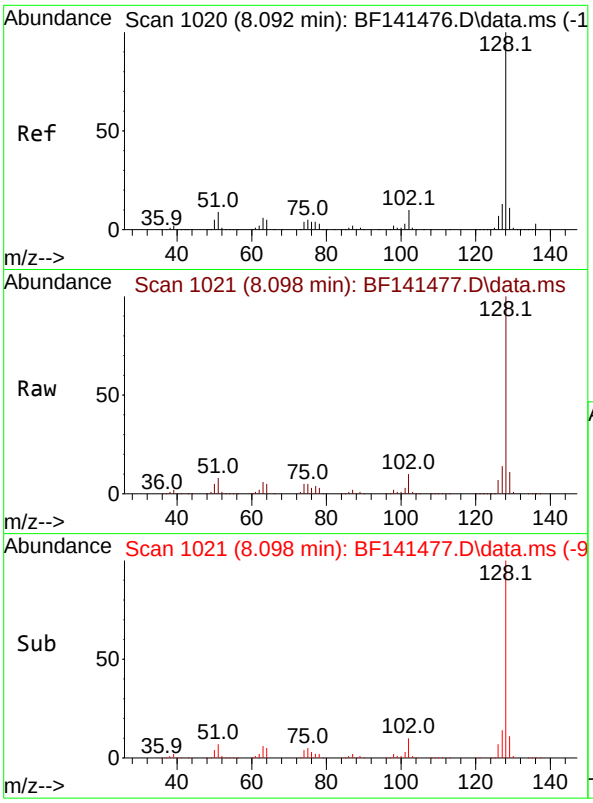


#30
1,2,4-Trichlorobenzene
Concen: 48.788 ng
RT: 8.016 min Scan# 1007
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:180 Resp: 270897

Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.8	115.2
145	31.3	24.2	36.4



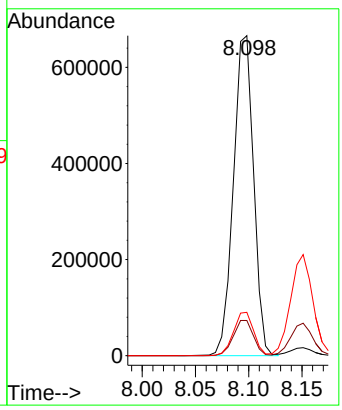


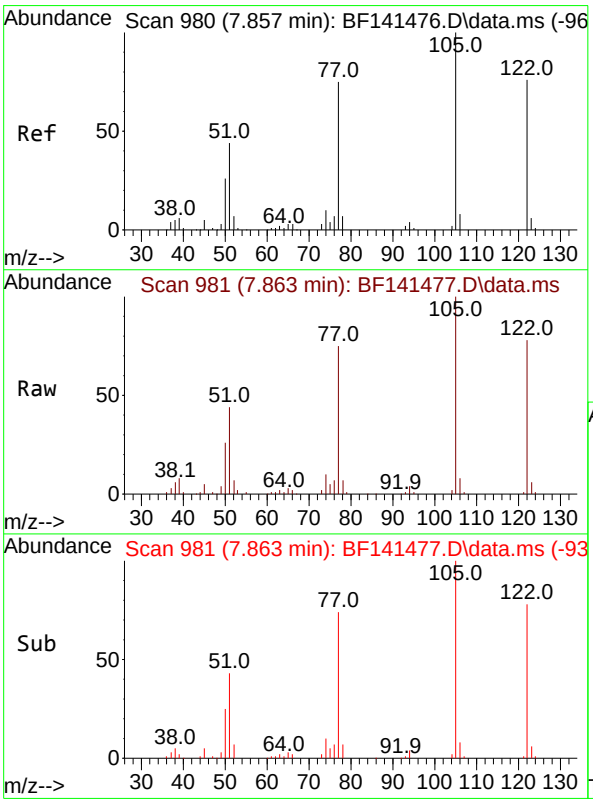
#31
Naphthalene
Concen: 48.605 ng
RT: 8.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 878692

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.6	10.7	16.1

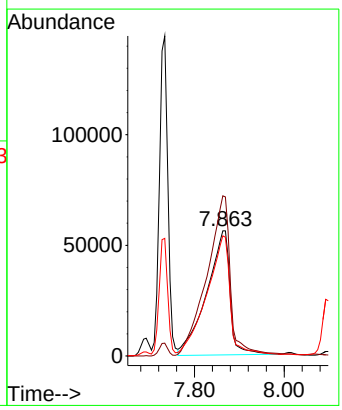


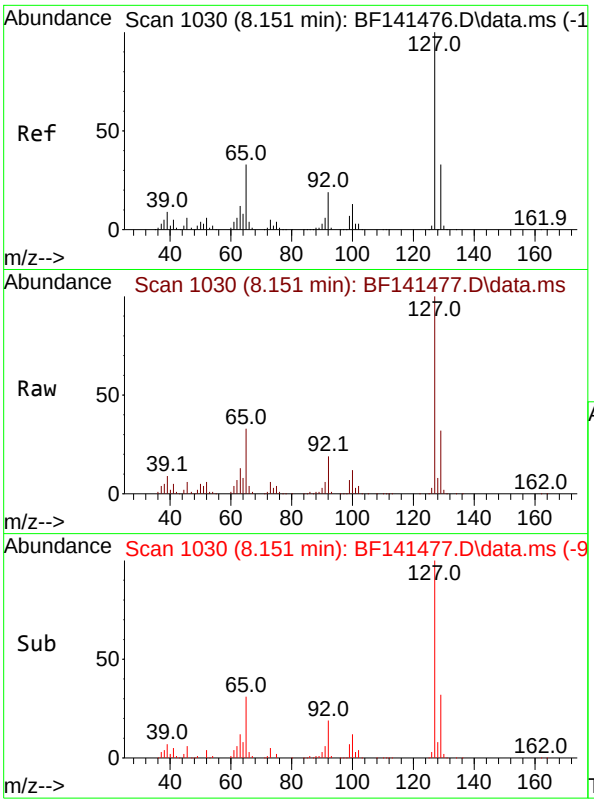


#32
Benzoic acid
Concen: 51.719 ng
RT: 7.863 min Scan# 981
Delta R.T. -0.029 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:122 Resp: 202728

Ion	Ratio	Lower	Upper
122	100		
105	128.0	106.5	146.5
77	96.0	76.3	116.3



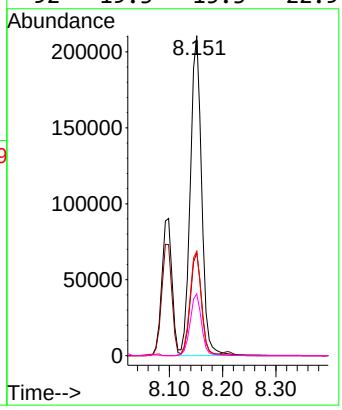


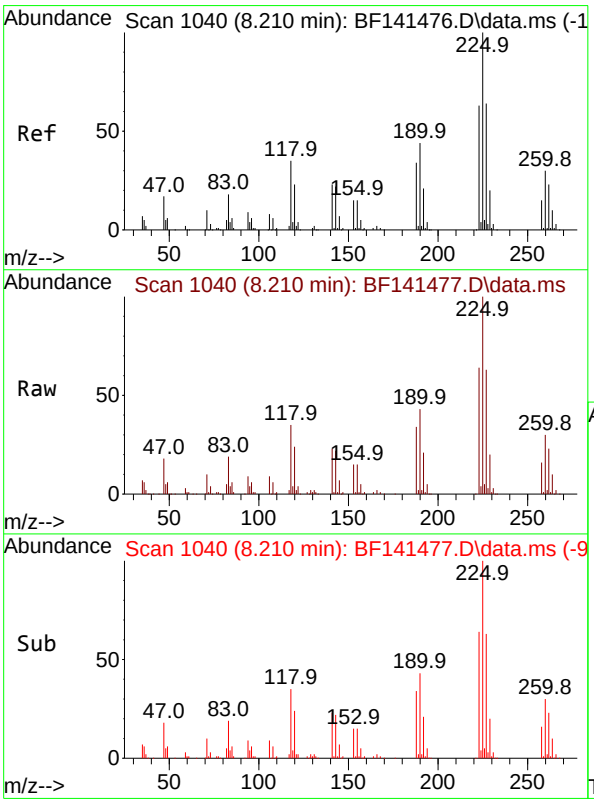
#33
4-Chloroaniline
Concen: 49.471 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 312251

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.5	39.7
65	32.6	26.4	39.6
92	19.3	15.3	22.9

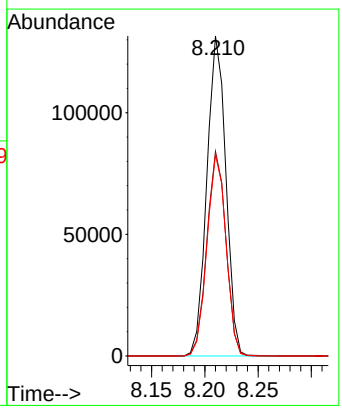


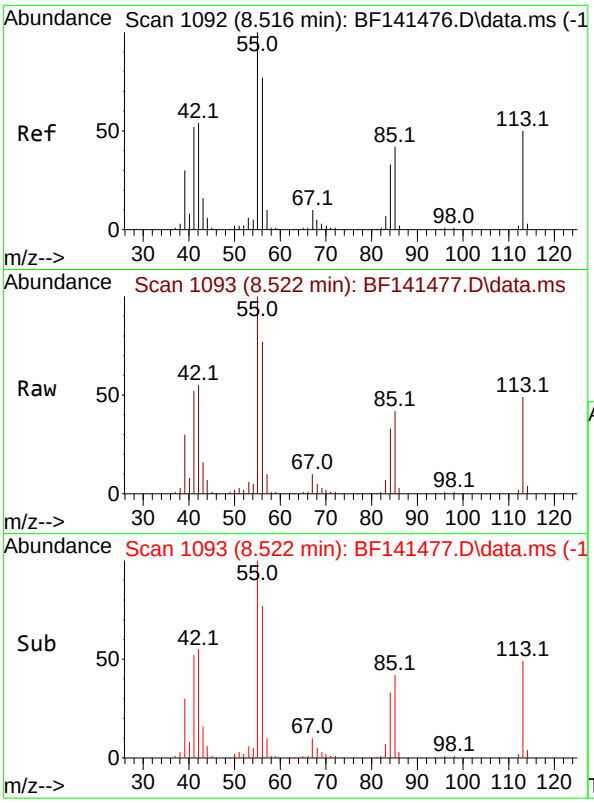


#34
Hexachlorobutadiene
Concen: 48.971 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:225 Resp: 163240

Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.1	75.1
227	62.8	51.0	76.6



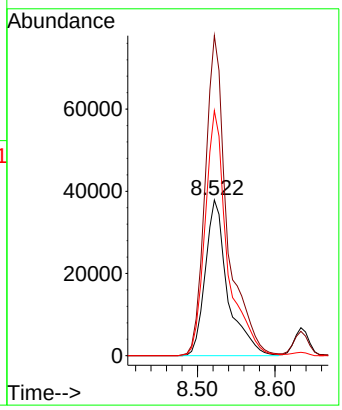


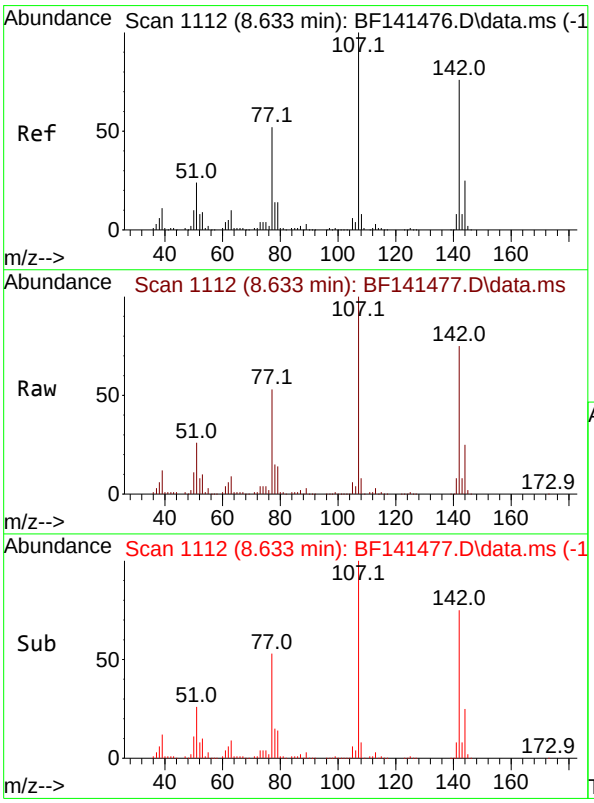
#35
Caprolactam
Concen: 49.180 ng
RT: 8.522 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 76350

Ion	Ratio	Lower	Upper
113	100		
55	205.6	180.8	220.8
56	157.4	133.6	173.6

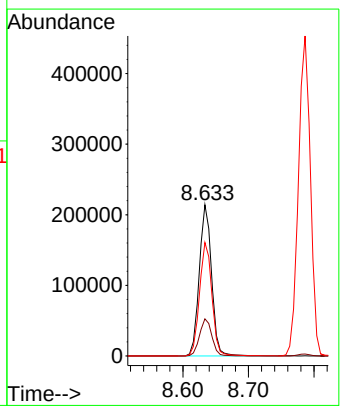


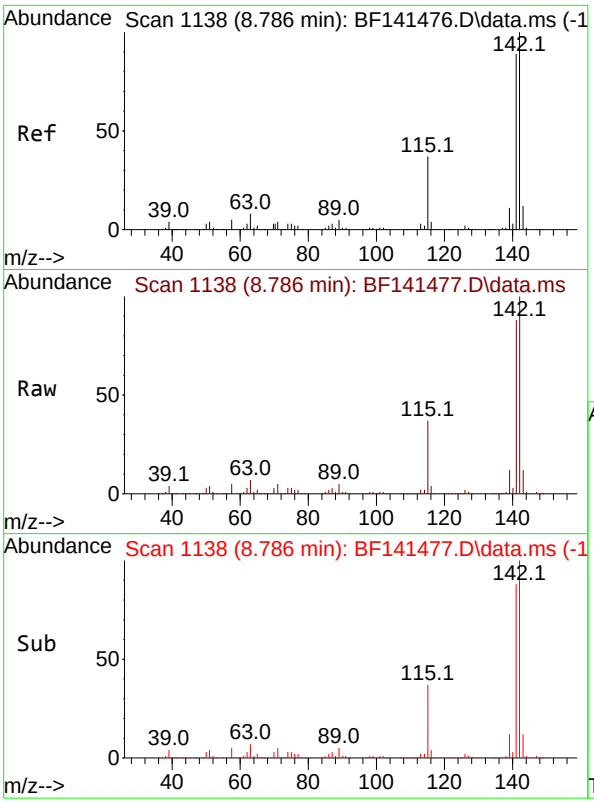


#36
4-Chloro-3-methylphenol
Concen: 49.736 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:107 Resp: 280911

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.7	29.5
142	75.0	60.8	91.2



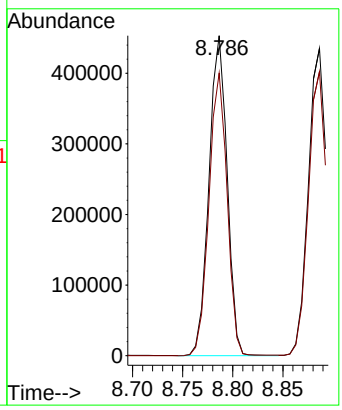


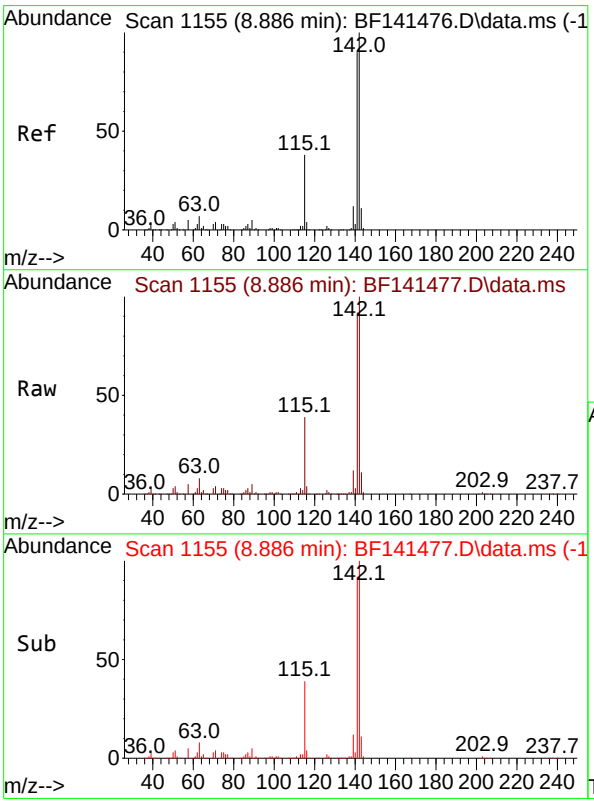
#37
2-Methylnaphthalene
Concen: 48.643 ng
RT: 8.786 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 572244

Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.2	106.8

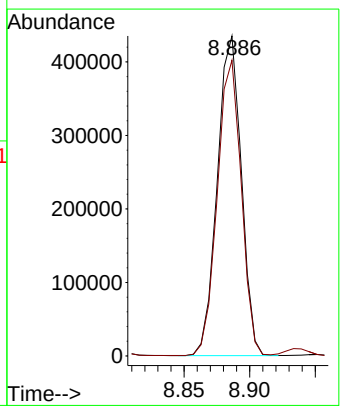


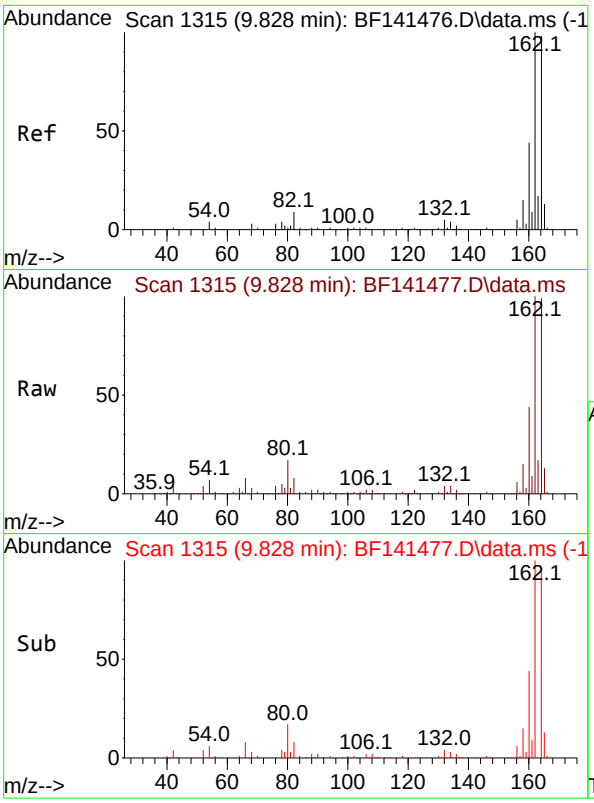


#38
1-Methylnaphthalene
Concen: 48.579 ng
RT: 8.886 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:142 Resp: 553503

Ion	Ratio	Lower	Upper
142	100		
141	92.4	72.1	108.1



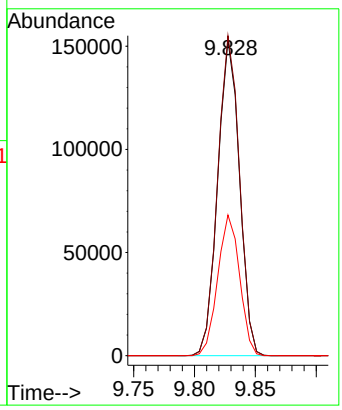


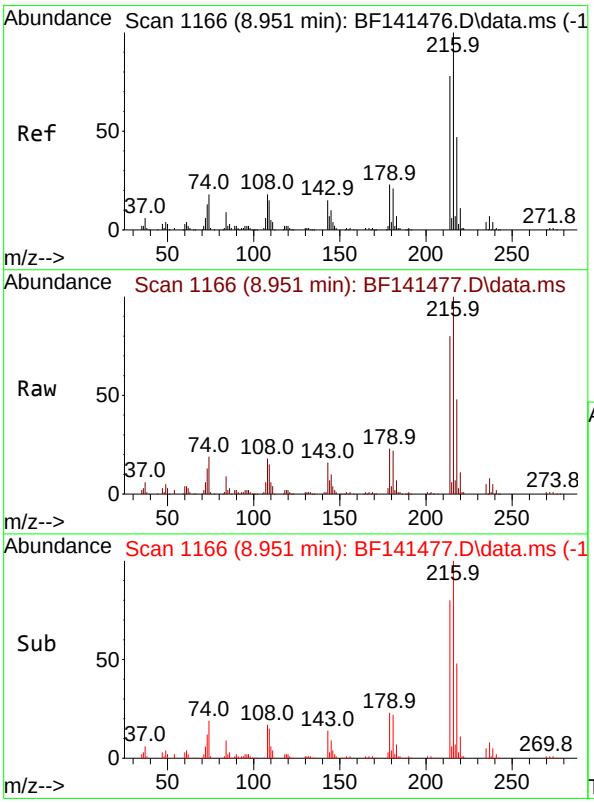
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 190523

Ion	Ratio	Lower	Upper
164	100		
162	101.5	81.3	121.9
160	44.6	35.9	53.9

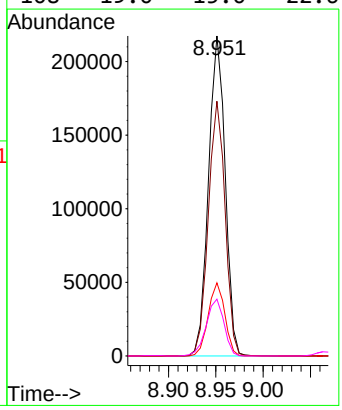


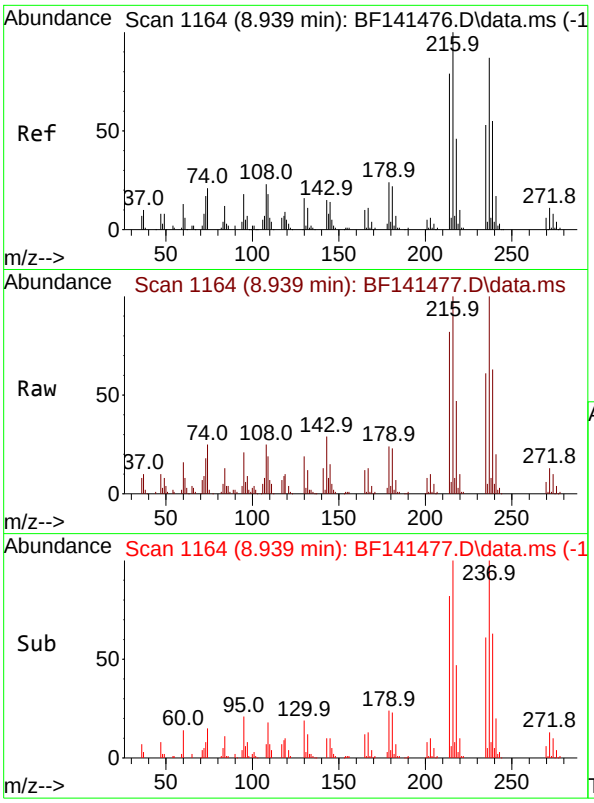


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.369 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:216 Resp: 266614

Ion	Ratio	Lower	Upper
216	100		
214	80.0	62.3	93.5
179	22.7	18.0	27.0
108	19.0	15.0	22.6



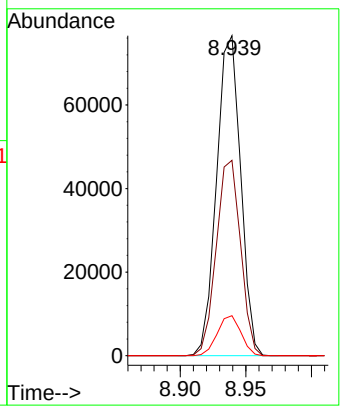


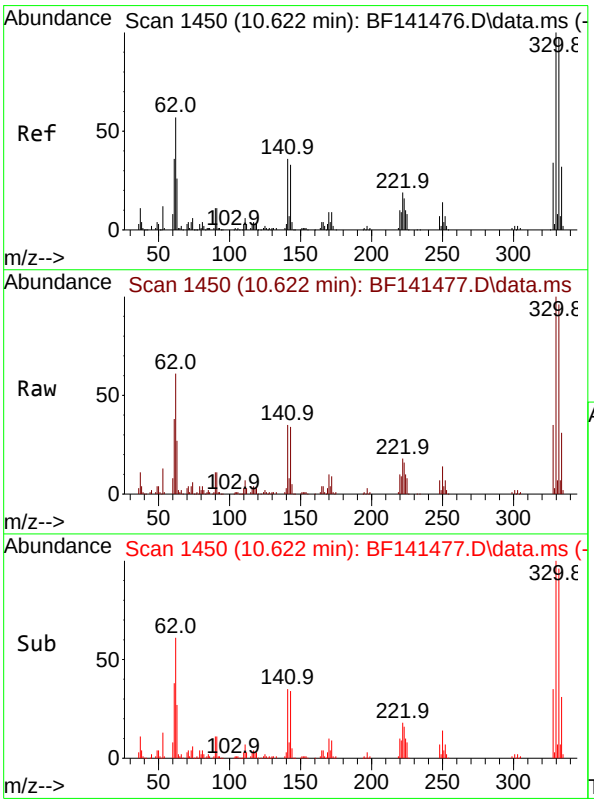
#41
Hexachlorocyclopentadiene
Concen: 53.276 ng
RT: 8.939 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 97674

Ion	Ratio	Lower	Upper
237	100		
235	61.1	41.4	81.4
272	12.5	0.0	32.4

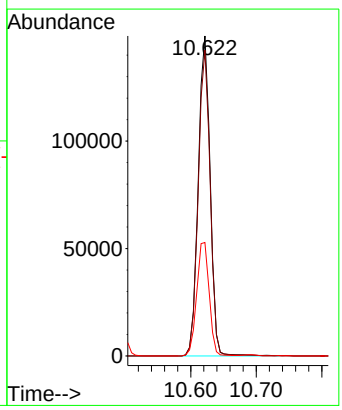


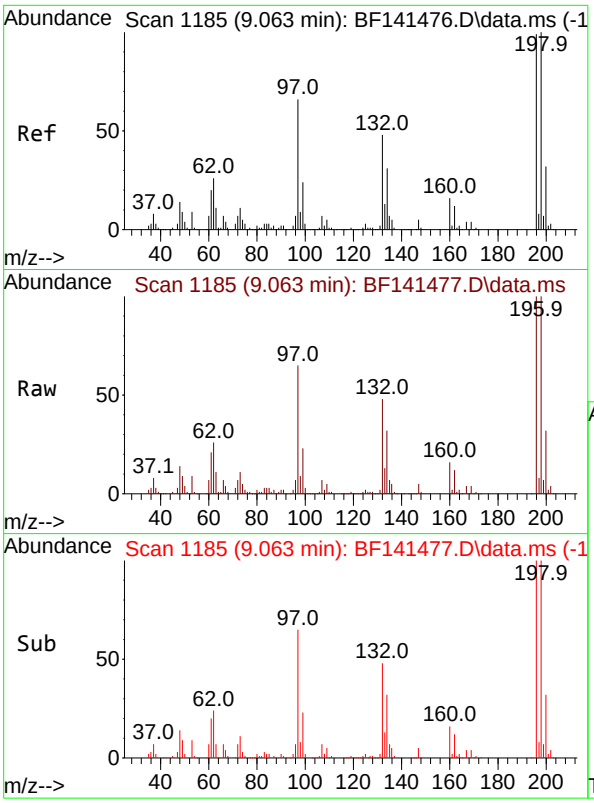


#42
2,4,6-Tribromophenol
Concen: 98.845 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.005 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:330 Resp: 189178

Ion	Ratio	Lower	Upper
330	100		
332	95.8	78.5	117.7
141	37.2	31.0	46.4



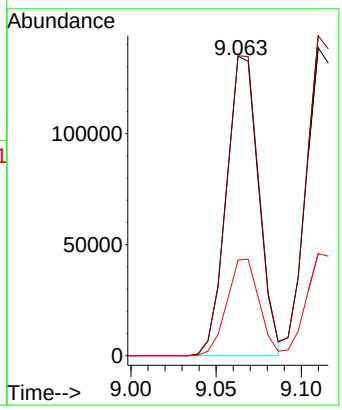


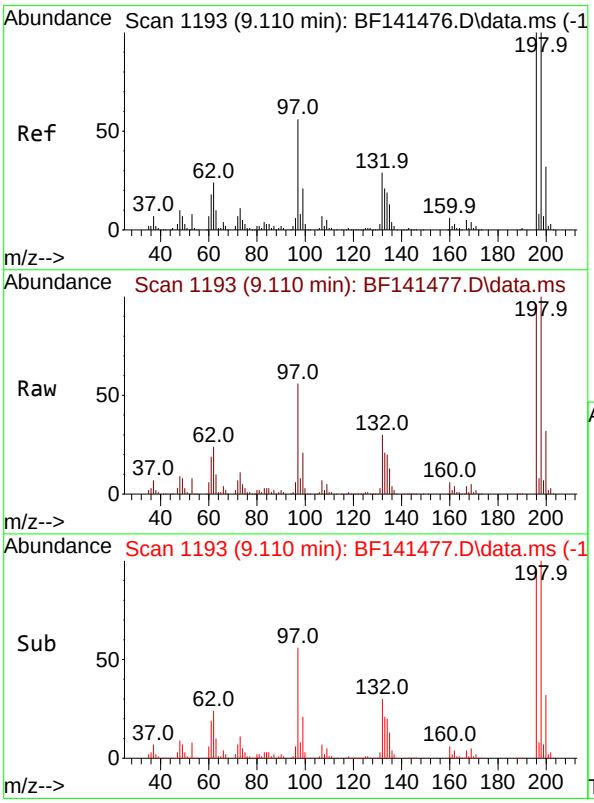
#43
2,4,6-Trichlorophenol
Concen: 49.825 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 177503

Ion	Ratio	Lower	Upper
196	100		
198	100.1	80.6	121.0
200	31.9	25.5	38.3

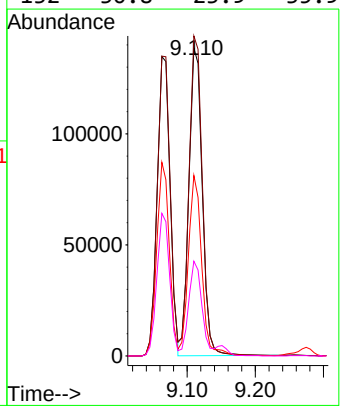


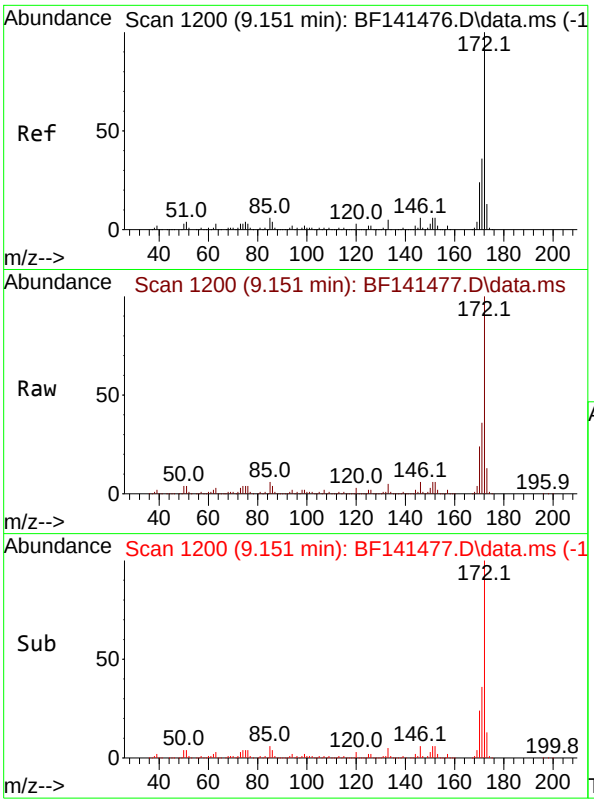


#44
2,4,5-Trichlorophenol
Concen: 48.667 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:196 Resp: 187902

Ion	Ratio	Lower	Upper
196	100		
198	103.9	79.8	119.8
97	58.6	44.8	67.2
132	30.8	23.9	35.9



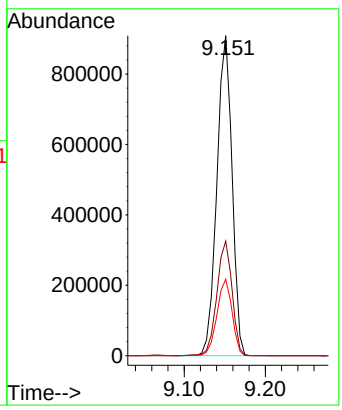


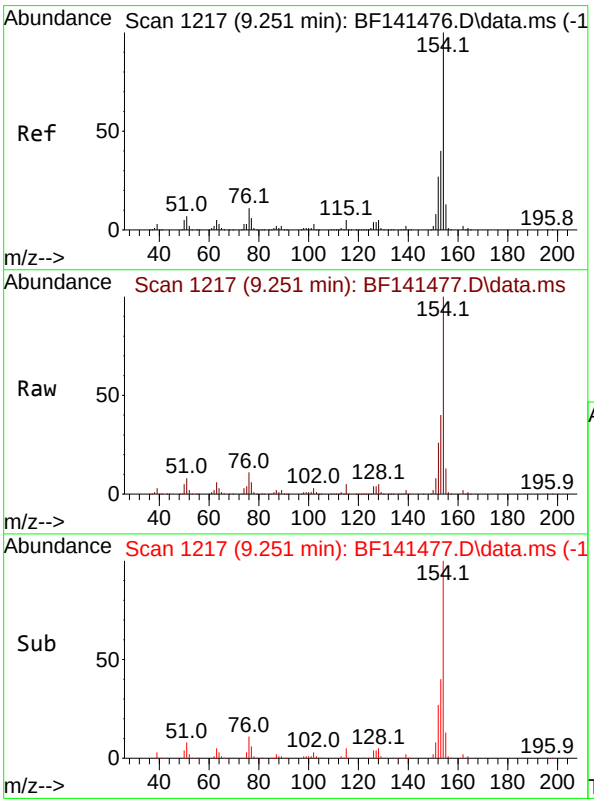
#45
2-Fluorobiphenyl
Concen: 95.605 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 1182292

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.7	43.1
170	23.8	18.9	28.3

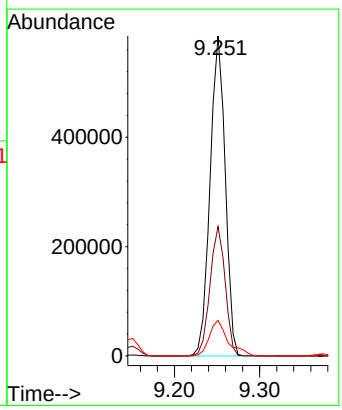


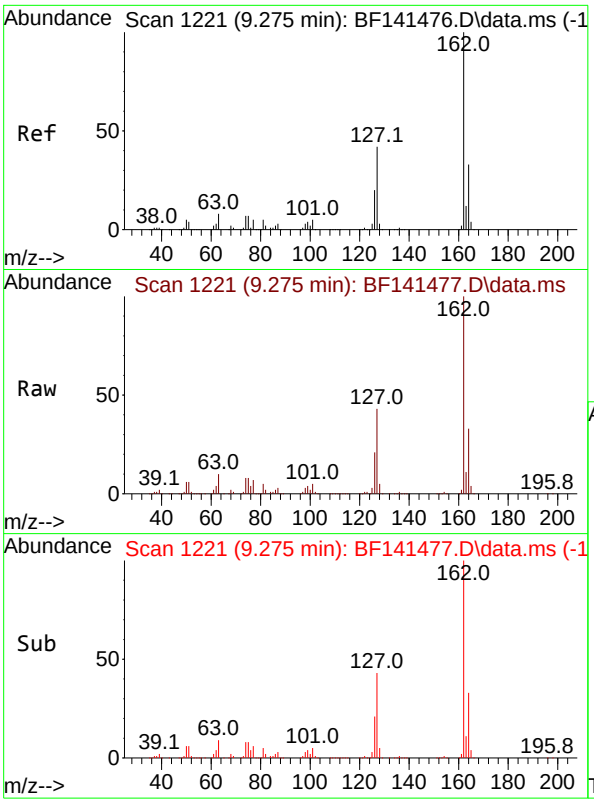


#46
1,1'-Biphenyl
Concen: 48.905 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:154 Resp: 722373

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	11.1	0.0	30.8



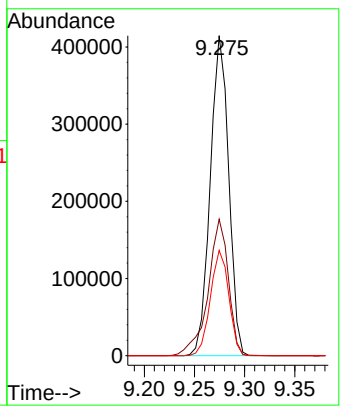


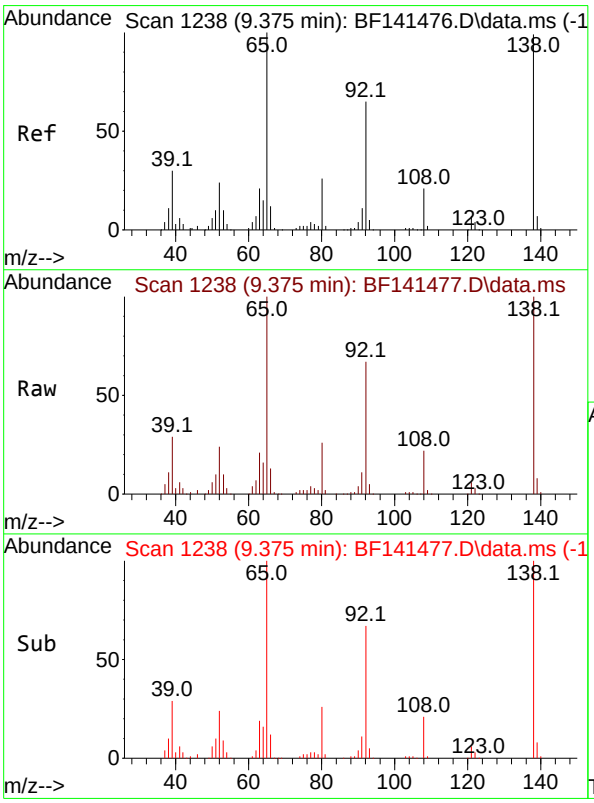
#47
2-Chloronaphthalene
Concen: 48.576 ng
RT: 9.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 530577

Ion	Ratio	Lower	Upper
162	100		
127	42.6	34.1	51.1
164	32.9	26.3	39.5

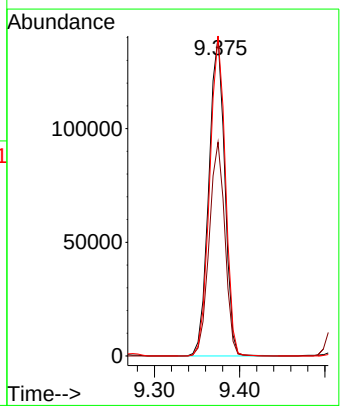


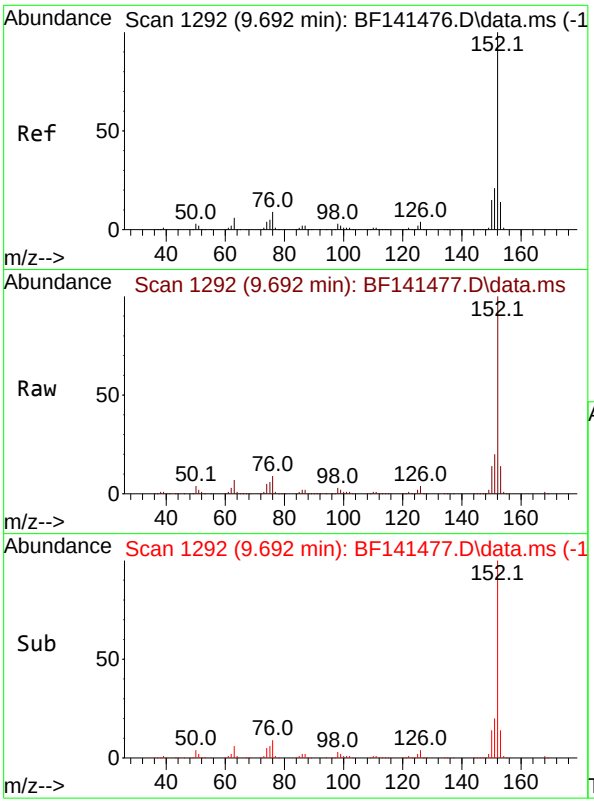


#48
2-Nitroaniline
Concen: 49.612 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 65 Resp: 181860

Ion	Ratio	Lower	Upper
65	100		
92	67.0	52.2	78.2
138	100.2	79.5	119.3



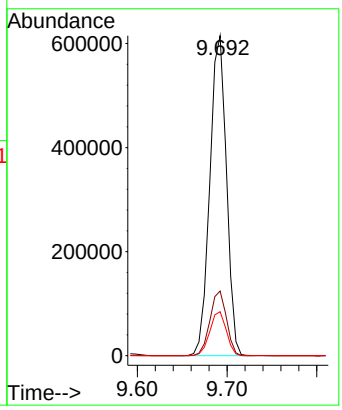


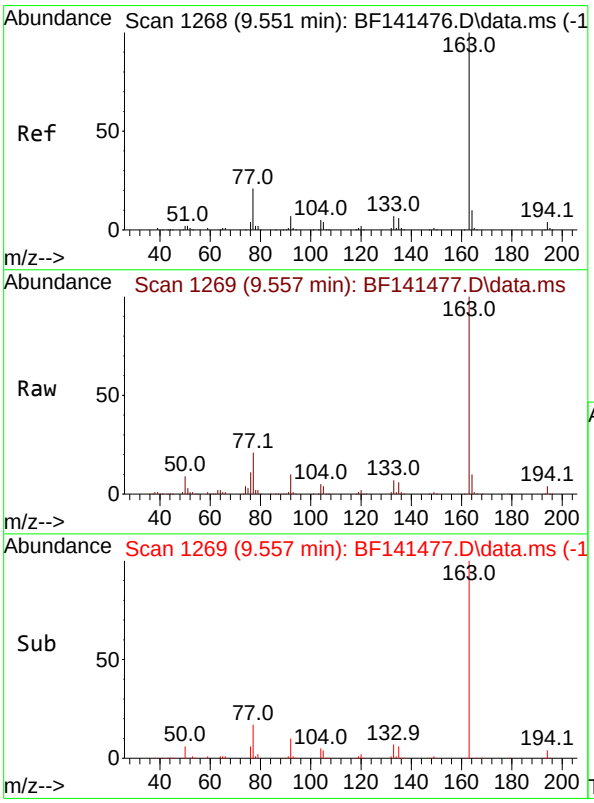
#49
Acenaphthylene
Concen: 48.672 ng
RT: 9.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 790730

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	13.7	10.9	16.3

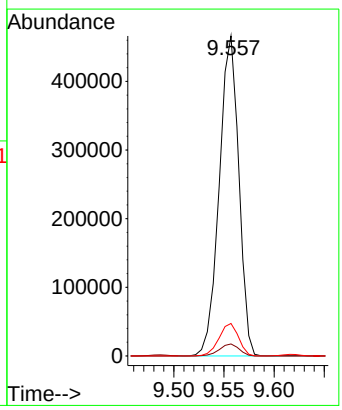


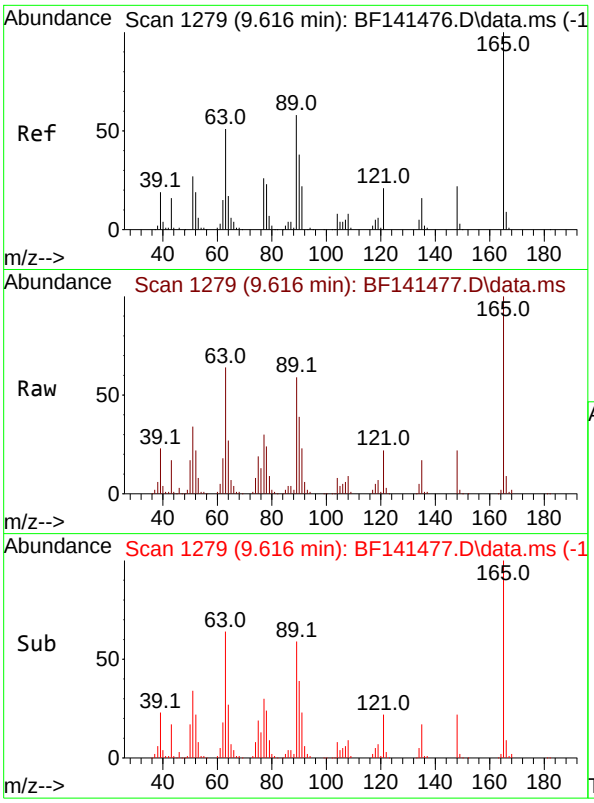


#50
Dimethylphthalate
Concen: 48.760 ng
RT: 9.557 min Scan# 1269
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:163 Resp: 630673

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.1	7.9	11.9



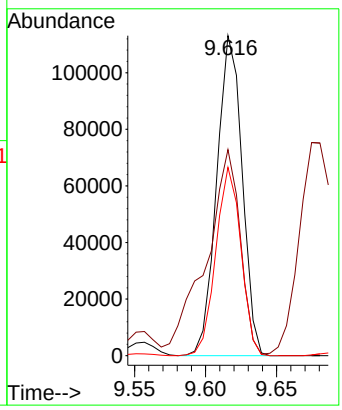


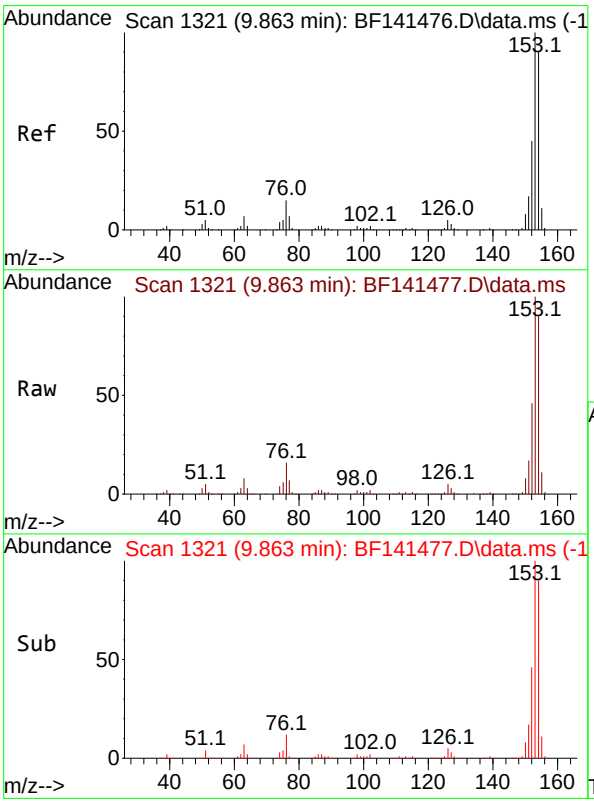
#51
2,6-Dinitrotoluene
Concen: 49.760 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 140697

Ion	Ratio	Lower	Upper
165	100		
63	64.4	49.4	74.0
89	58.9	46.5	69.7

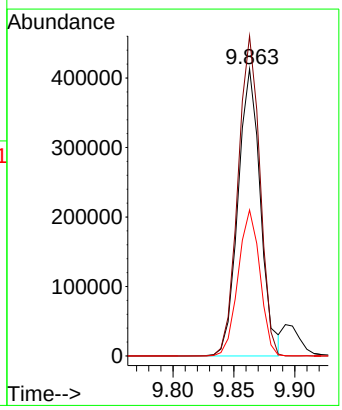


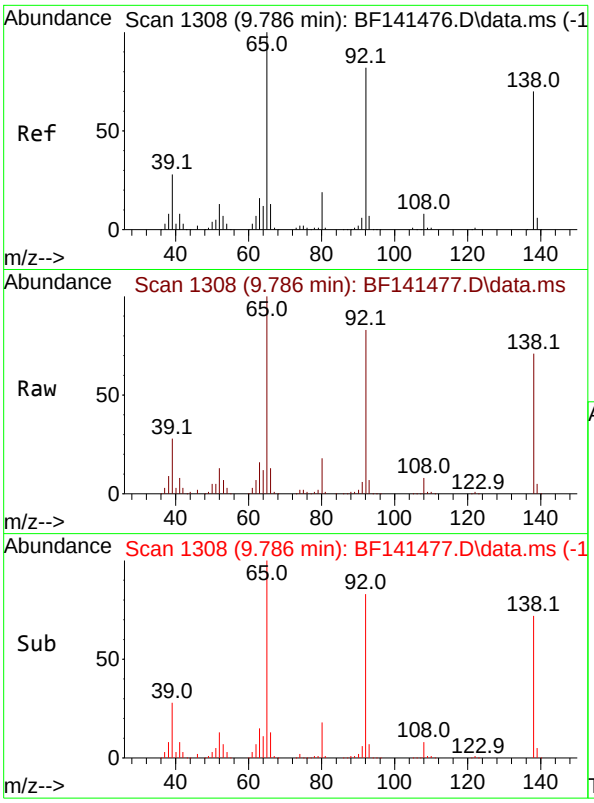


#52
Acenaphthene
Concen: 48.327 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:154 Resp: 527828

Ion	Ratio	Lower	Upper
154	100		
153	111.5	89.2	133.8
152	50.8	39.8	59.8



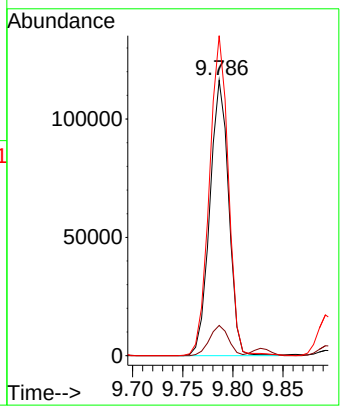


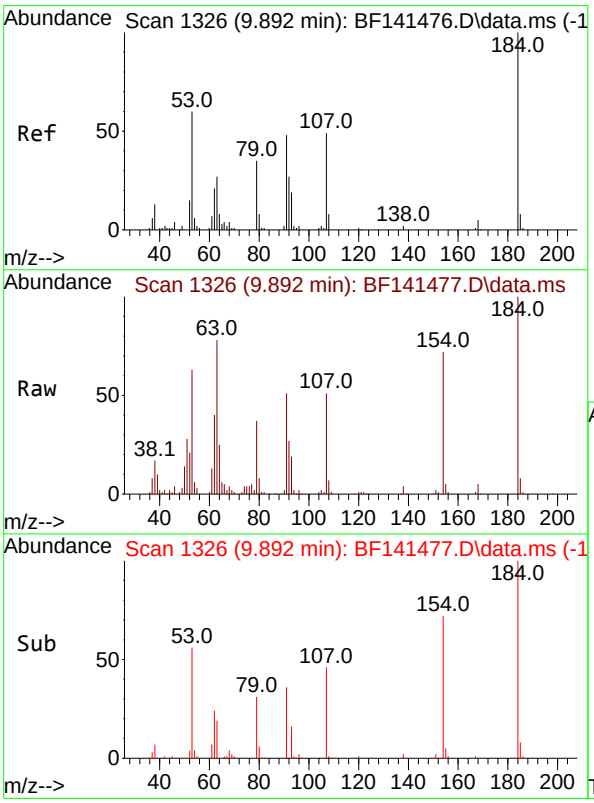
#53
3-Nitroaniline
Concen: 50.087 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 152426

Ion	Ratio	Lower	Upper
138	100		
108	11.0	9.0	13.4
92	116.2	93.7	140.5

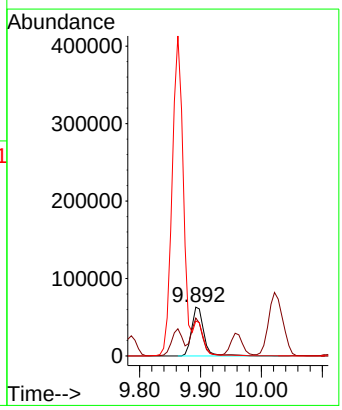


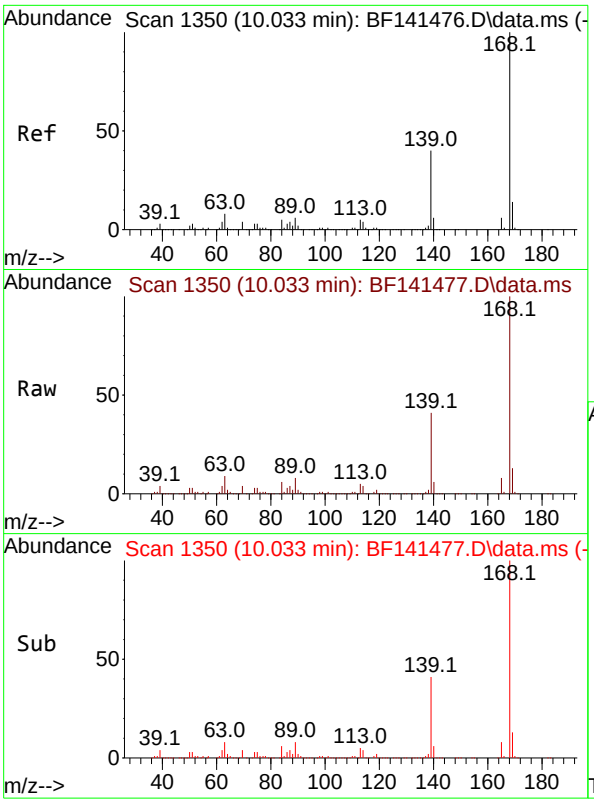


#54
2,4-Dinitrophenol
Concen: 52.339 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:184 Resp: 87953

Ion	Ratio	Lower	Upper
184	100		
63	77.9	61.0	91.6
154	71.8	59.9	89.9



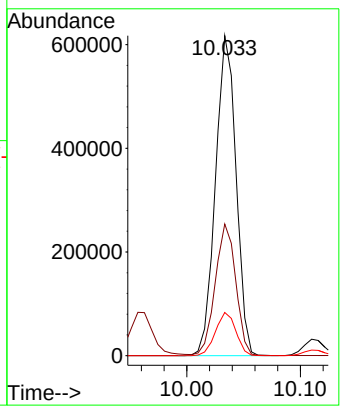


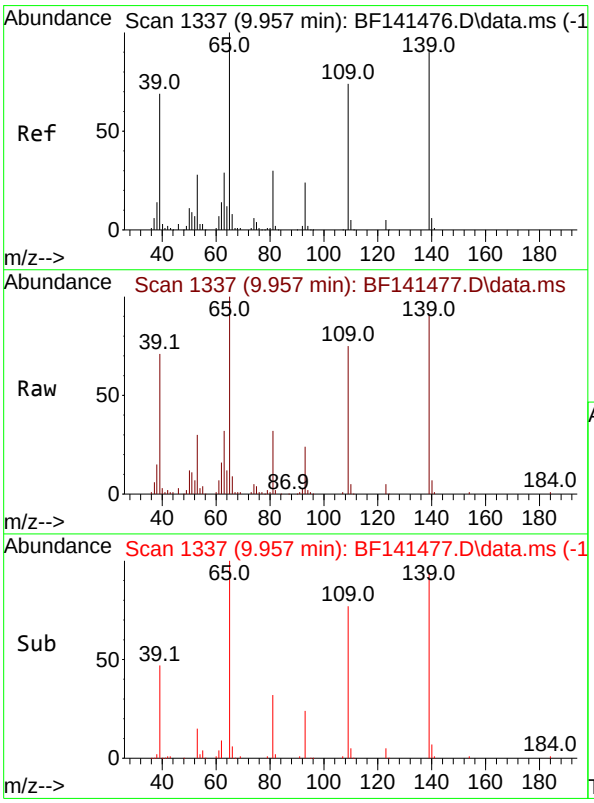
#55
Dibenzofuran
Concen: 48.523 ng
RT: 10.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 777905

Ion	Ratio	Lower	Upper
168	100		
139	41.2	32.7	49.1
169	13.5	10.8	16.2

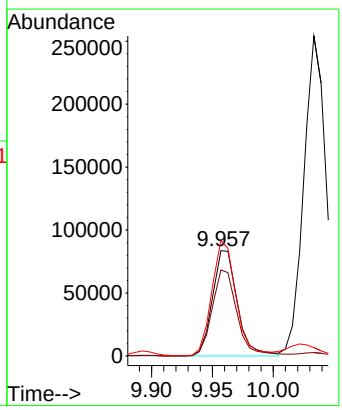


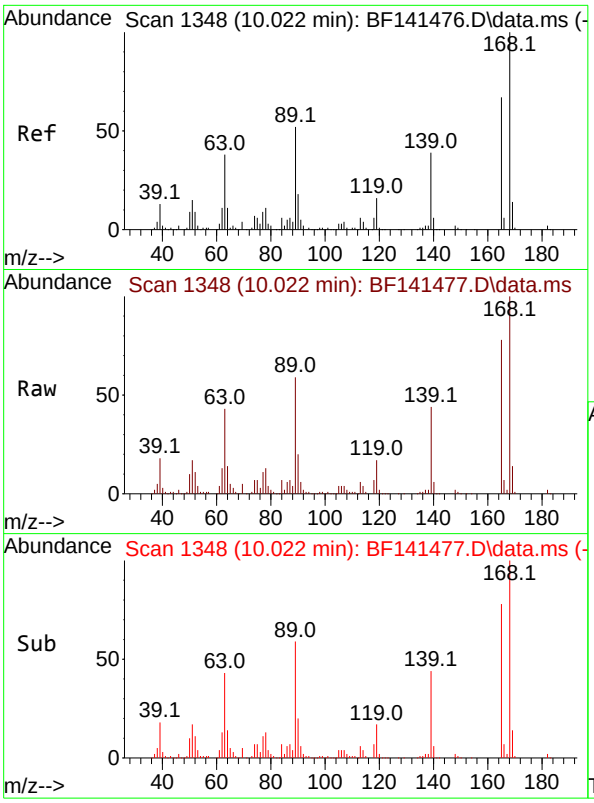


#56
4-Nitrophenol
Concen: 52.603 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:139 Resp: 118835

Ion	Ratio	Lower	Upper
139	100		
109	81.7	62.0	102.0
65	109.4	91.2	131.2



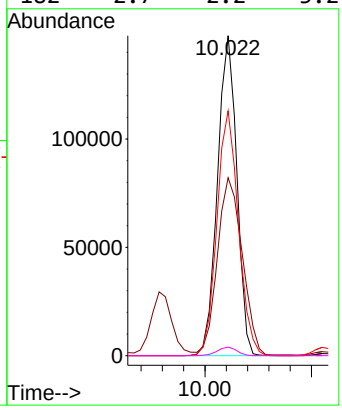


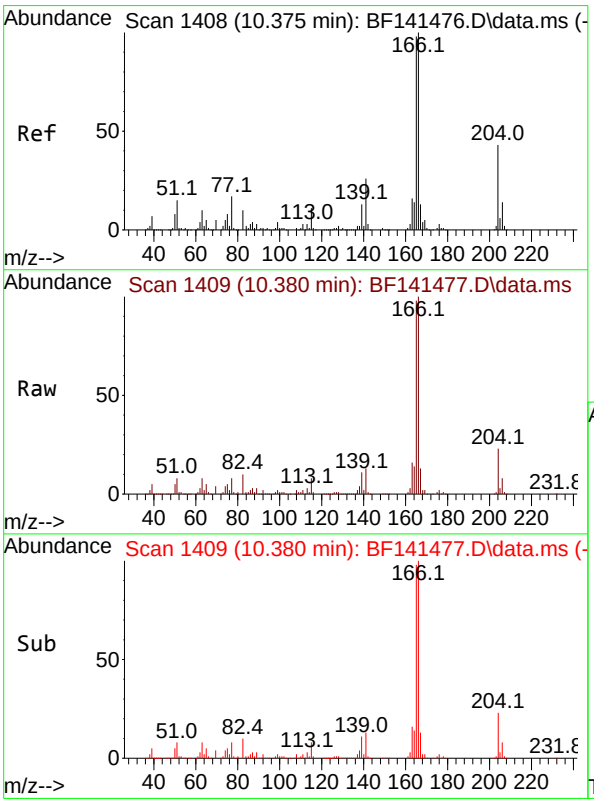
#57
2,4-Dinitrotoluene
Concen: 49.346 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 185741

Ion	Ratio	Lower	Upper
165	100		
63	55.6	46.4	69.6
89	76.5	61.8	92.6
182	2.7	2.2	3.2

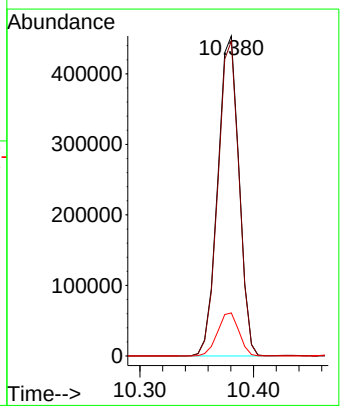


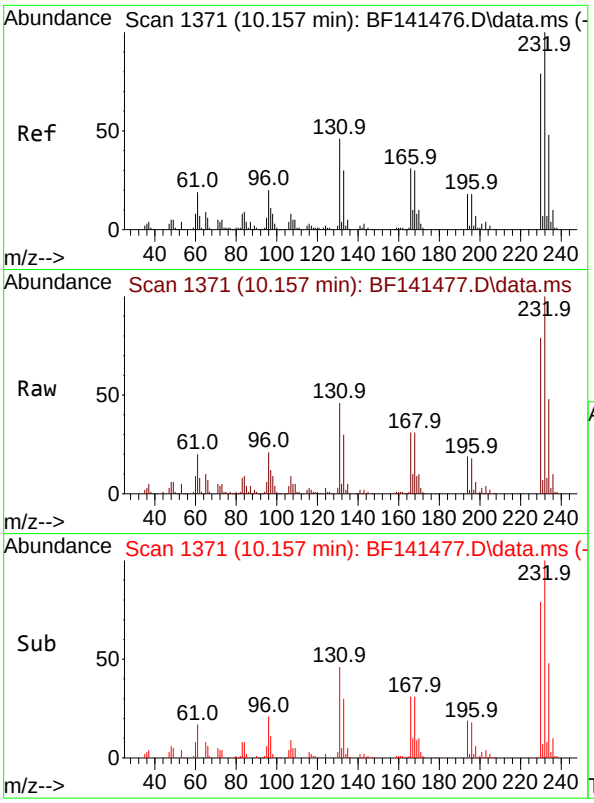


#58
Fluorene
Concen: 47.597 ng
RT: 10.380 min Scan# 1409
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:166 Resp: 590000

Ion	Ratio	Lower	Upper
166	100		
165	98.4	78.2	117.2
167	13.4	10.7	16.1



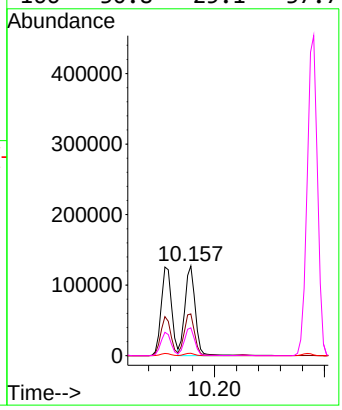


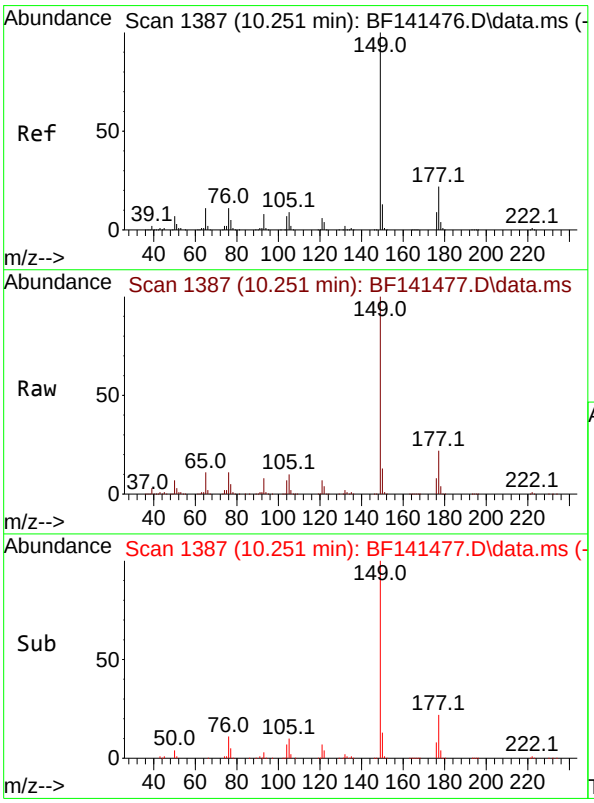
#59
2,3,4,6-Tetrachlorophenol
Concen: 49.807 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 165559

Ion	Ratio	Lower	Upper
232	100		
131	46.7	39.2	58.8
130	2.6	2.1	3.1
166	30.8	25.1	37.7

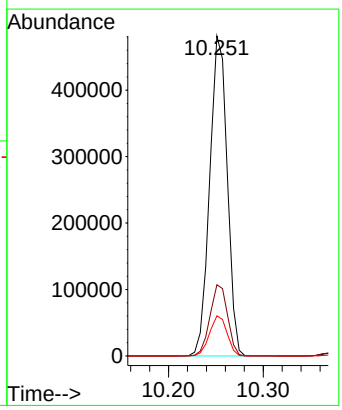


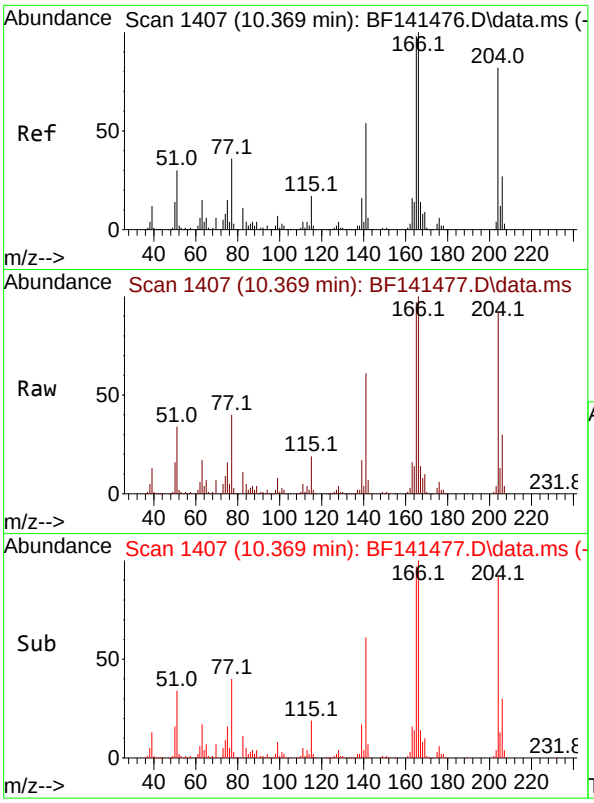


#60
Diethylphthalate
Concen: 48.647 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:149 Resp: 619064

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.6
150	12.5	10.1	15.1



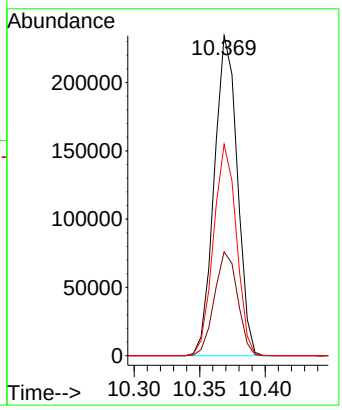


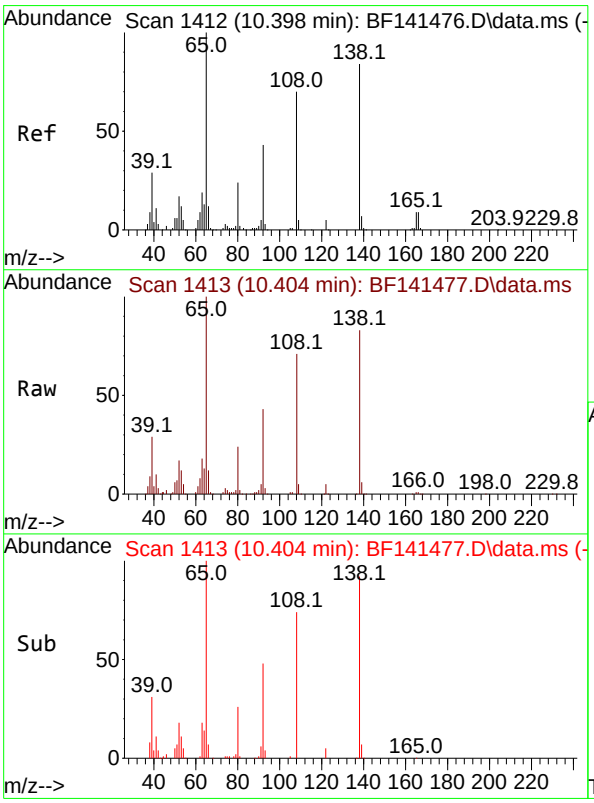
#61
4-Chlorophenyl-phenylether
Concen: 48.048 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 286530

Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.6	40.0
141	66.0	51.9	77.9

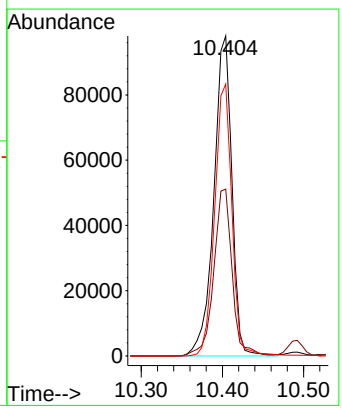


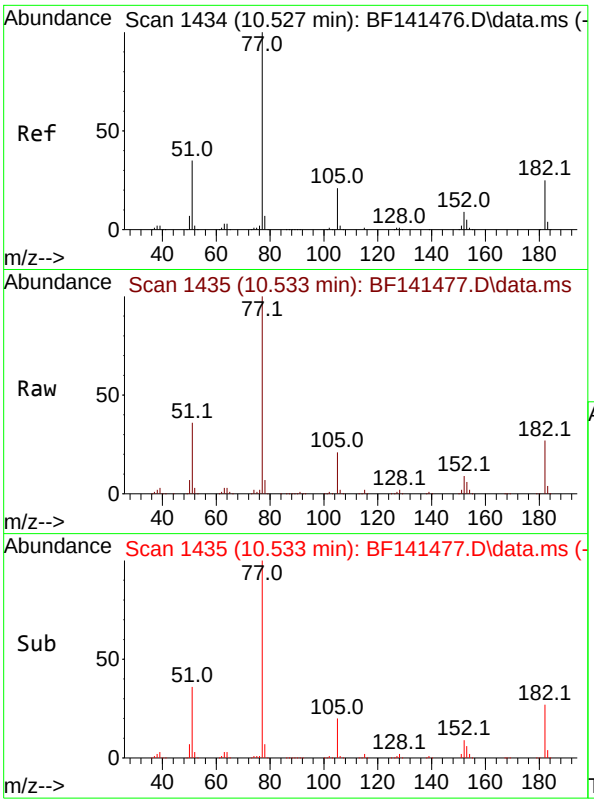


#62
4-Nitroaniline
Concen: 49.113 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:138 Resp: 151765

Ion	Ratio	Lower	Upper
138	100		
92	52.2	31.3	71.3
108	84.9	63.7	103.7



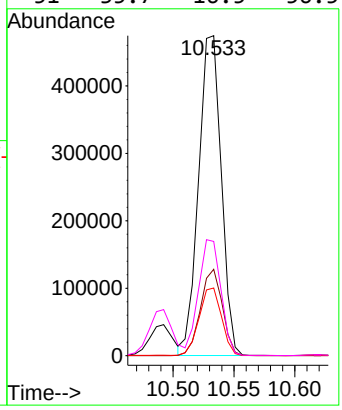


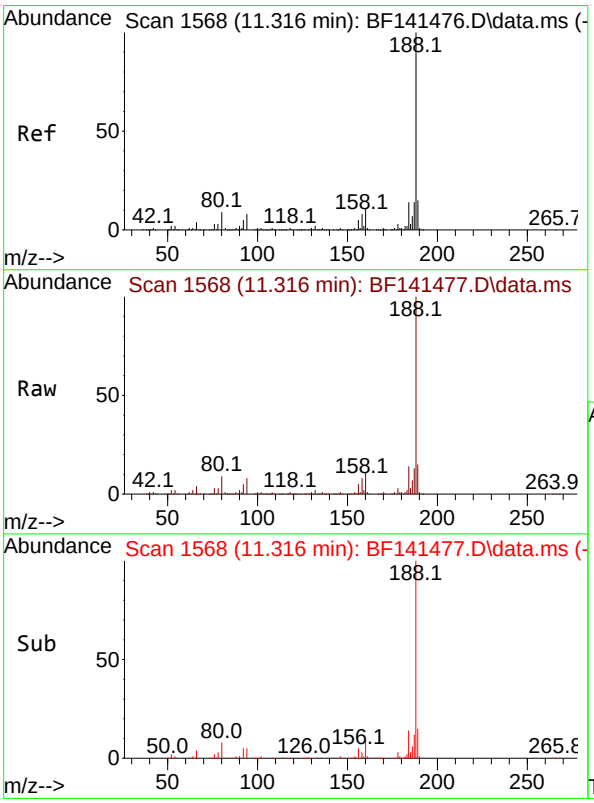
#63
Azobenzene
Concen: 48.742 ng
RT: 10.533 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 616638

Ion	Ratio	Lower	Upper
77	100		
182	27.0	4.7	44.7
105	21.1	0.4	40.4
51	35.7	16.5	56.5

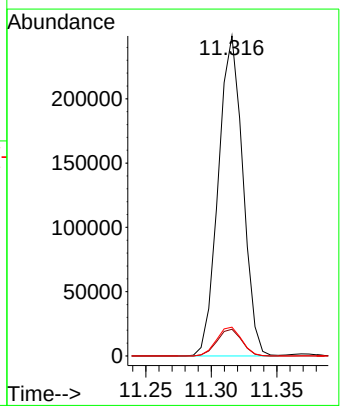


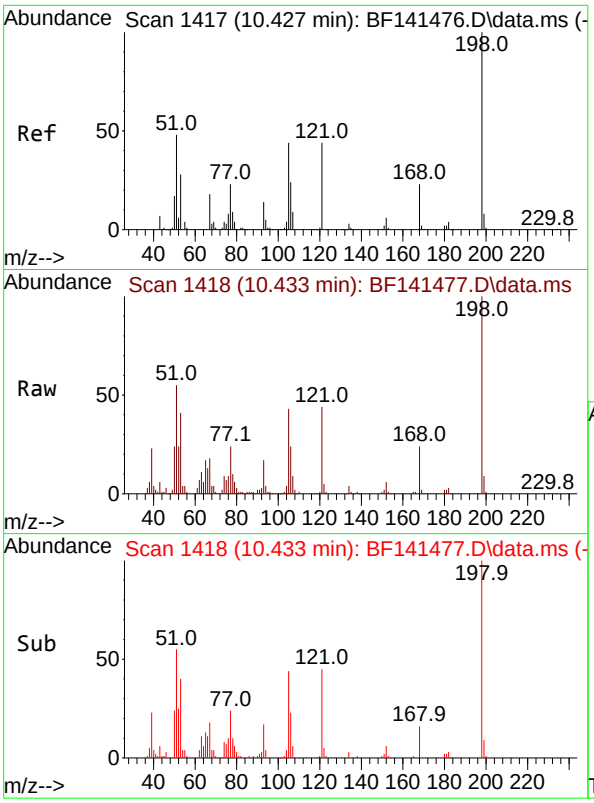


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:188 Resp: 323702

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	9.0	7.3	10.9



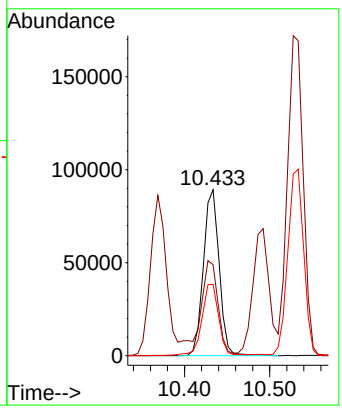


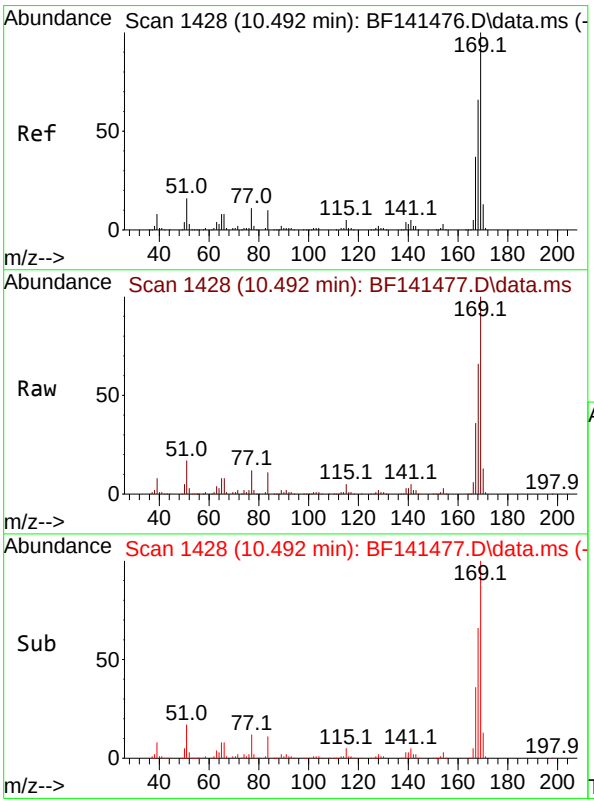
#65
4,6-Dinitro-2-methylphenol
Concen: 51.021 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 114725

Ion	Ratio	Lower	Upper
198	100		
51	54.9	37.4	77.4
105	43.0	25.2	65.2

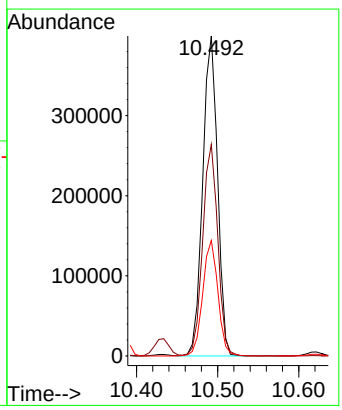


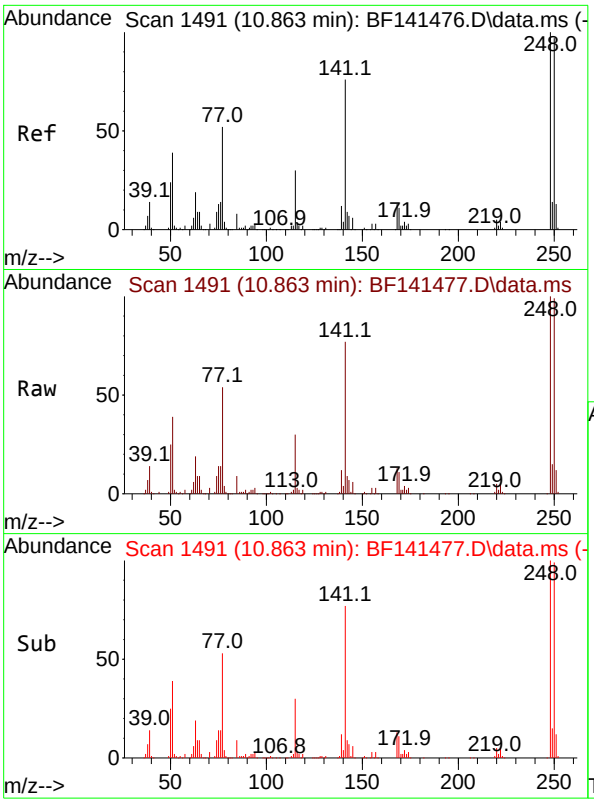


#66
n-Nitrosodiphenylamine
Concen: 48.810 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:169 Resp: 505770

Ion	Ratio	Lower	Upper
169	100		
168	66.1	53.3	79.9
167	36.1	29.4	44.2



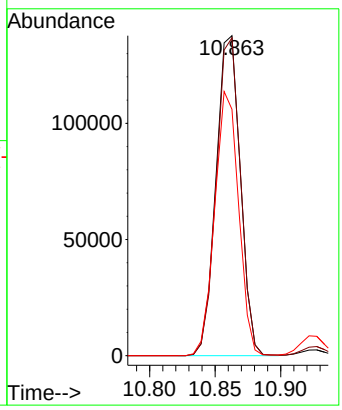


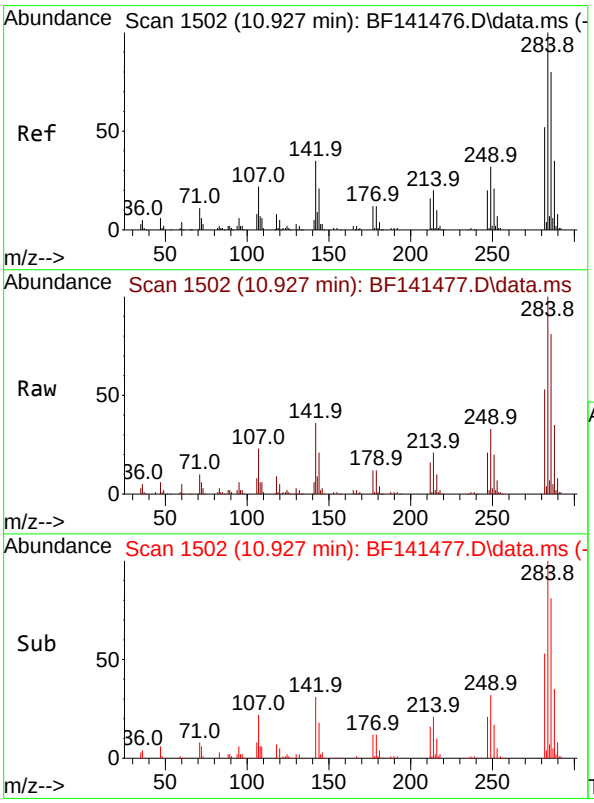
#67
4-Bromophenyl-phenylether
Concen: 49.135 ng
RT: 10.863 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 177761

Ion	Ratio	Lower	Upper
248	100		
250	99.3	77.8	116.6
141	77.0	60.6	90.8

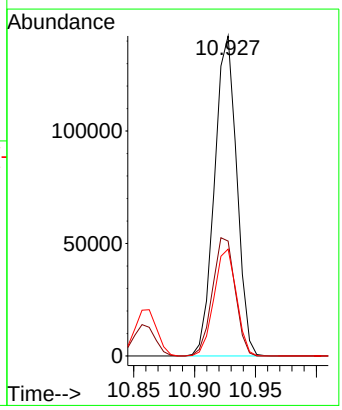


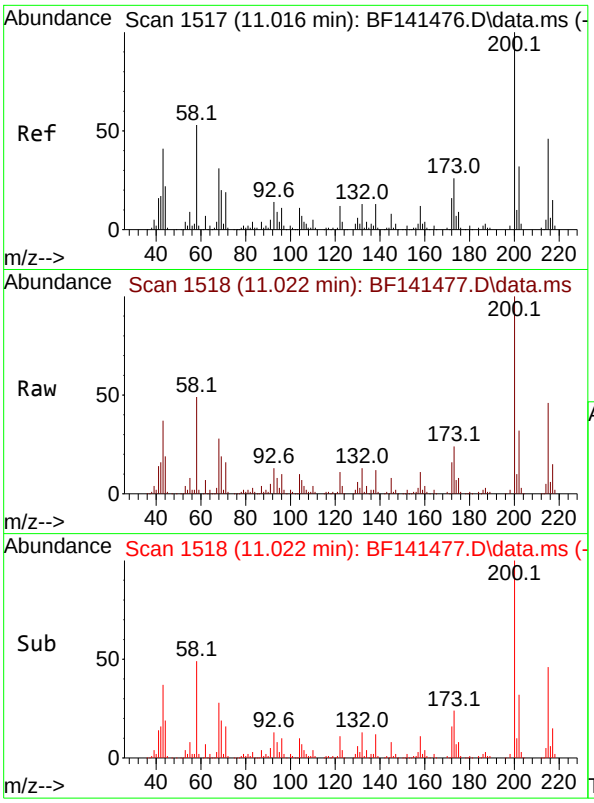


#68
Hexachlorobenzene
Concen: 48.567 ng
RT: 10.927 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:284 Resp: 180930

Ion	Ratio	Lower	Upper
284	100		
142	35.9	28.0	42.0
249	33.4	25.8	38.8



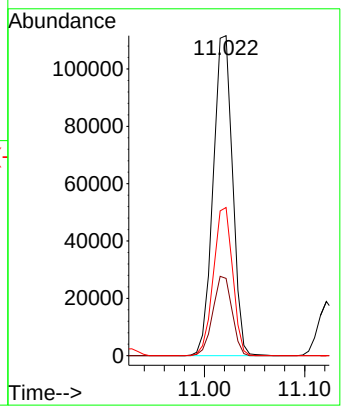


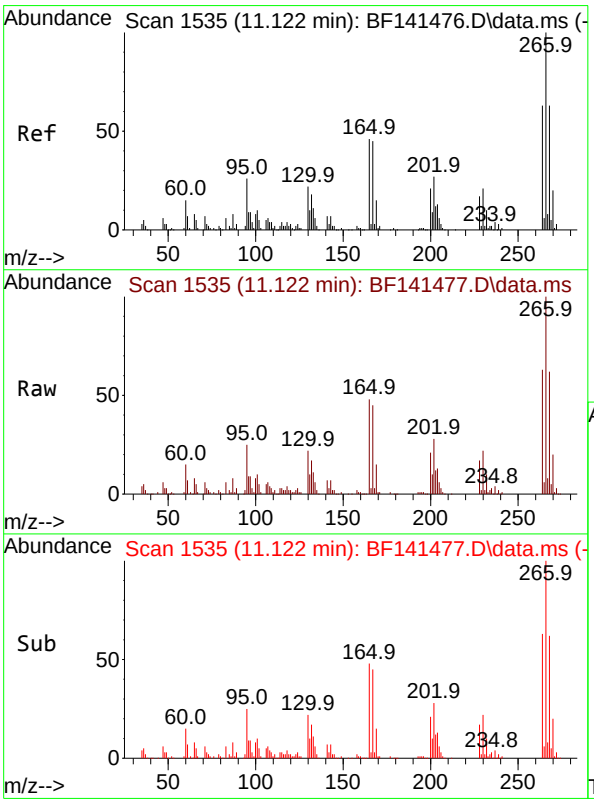
#69
Atrazine
Concen: 48.175 ng
RT: 11.022 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 149758

Ion	Ratio	Lower	Upper
200	100		
173	24.2	5.9	45.9
215	46.3	25.9	65.9

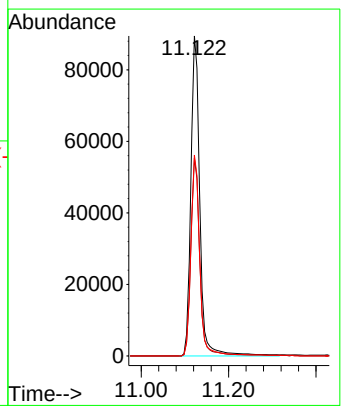


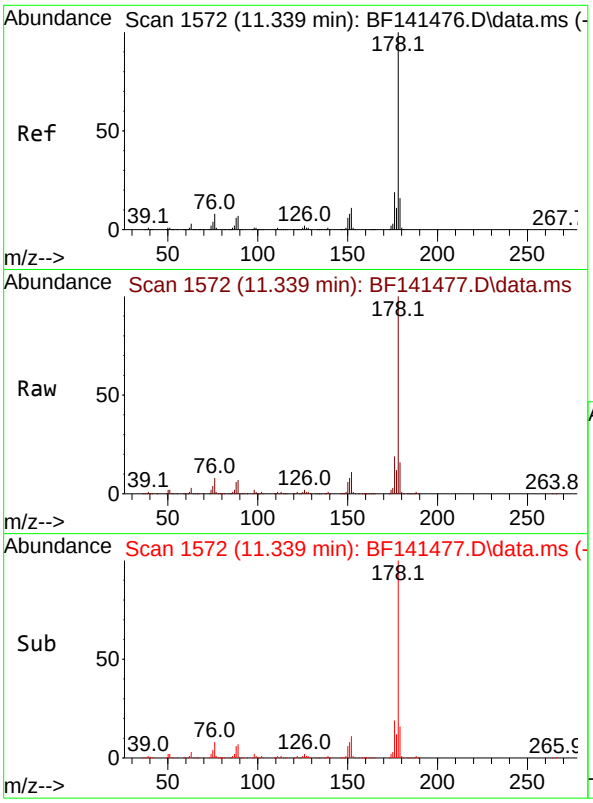


#70
Pentachlorophenol
Concen: 53.769 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:266 Resp: 128081

Ion	Ratio	Lower	Upper
266	100		
268	61.8	50.1	75.1
264	62.8	50.1	75.1



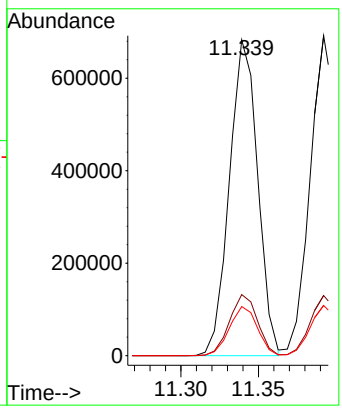


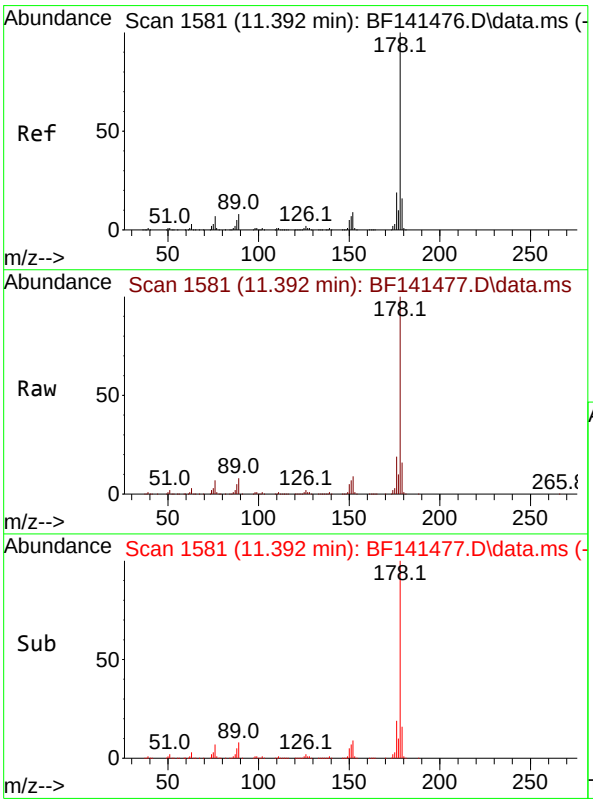
#71
Phenanthrene
Concen: 48.631 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 866517

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.6	12.4	18.6

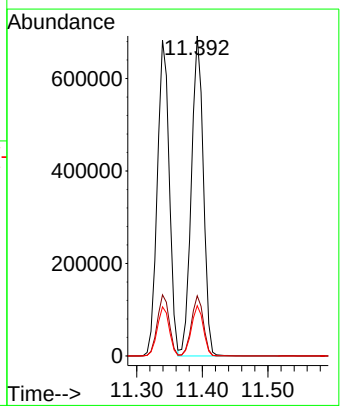


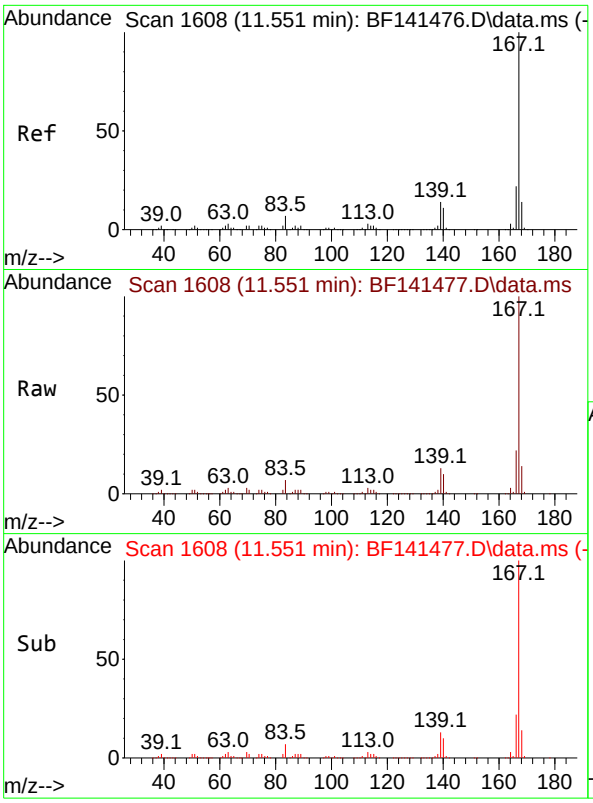


#72
Anthracene
Concen: 48.984 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:178 Resp: 877393

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.8	22.2
179	15.7	12.4	18.6



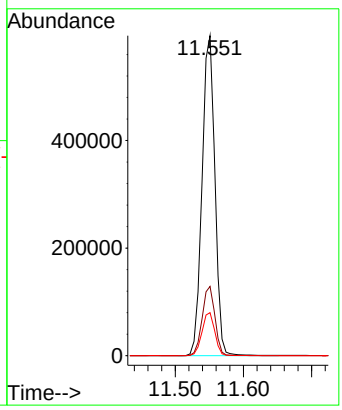


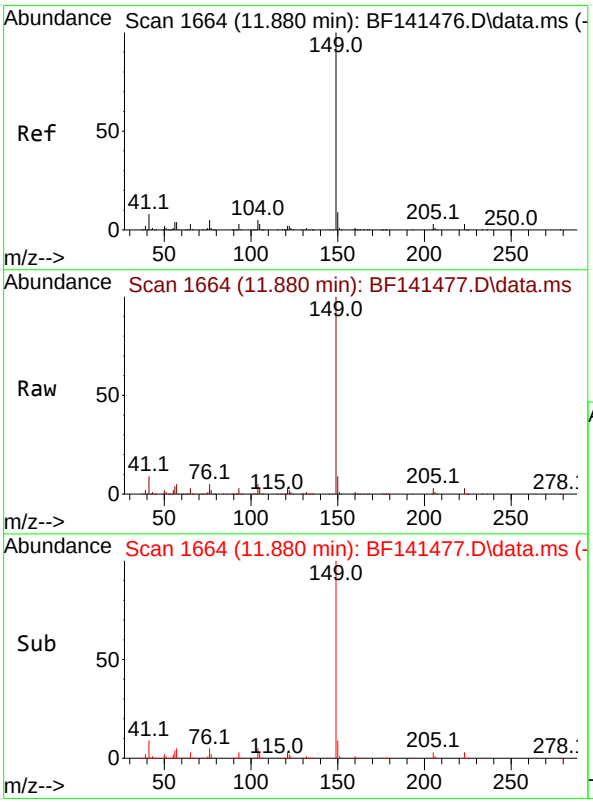
#73
Carbazole
Concen: 48.504 ng
RT: 11.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 781733

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.5	10.9	16.3

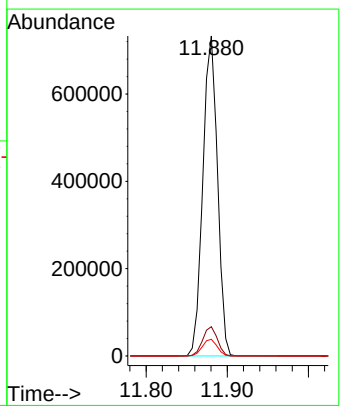


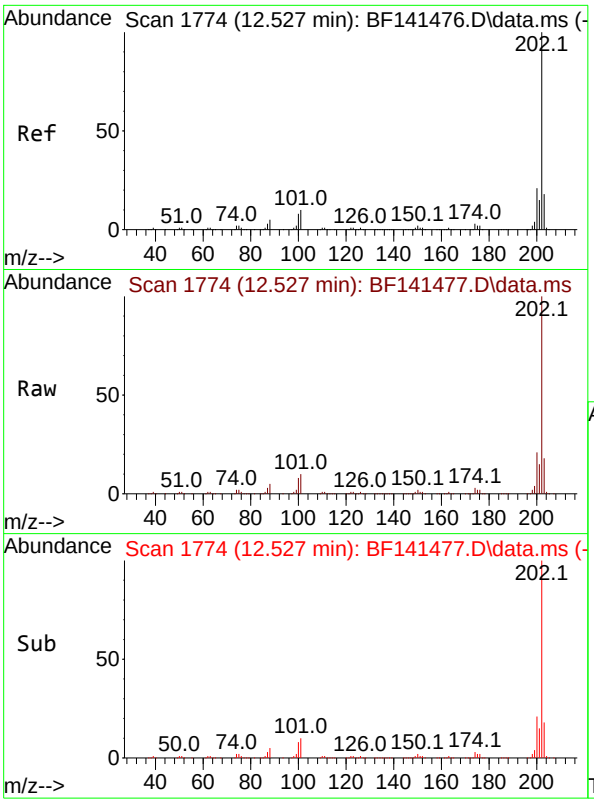


#74
Di-n-butylphthalate
Concen: 49.210 ng
RT: 11.880 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:149 Resp: 915782

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.2	6.2



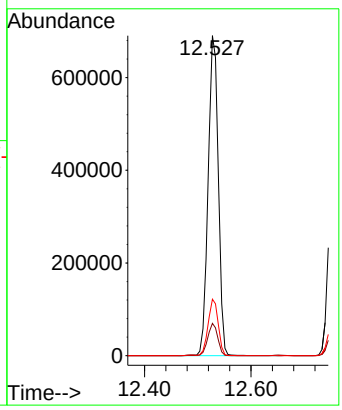


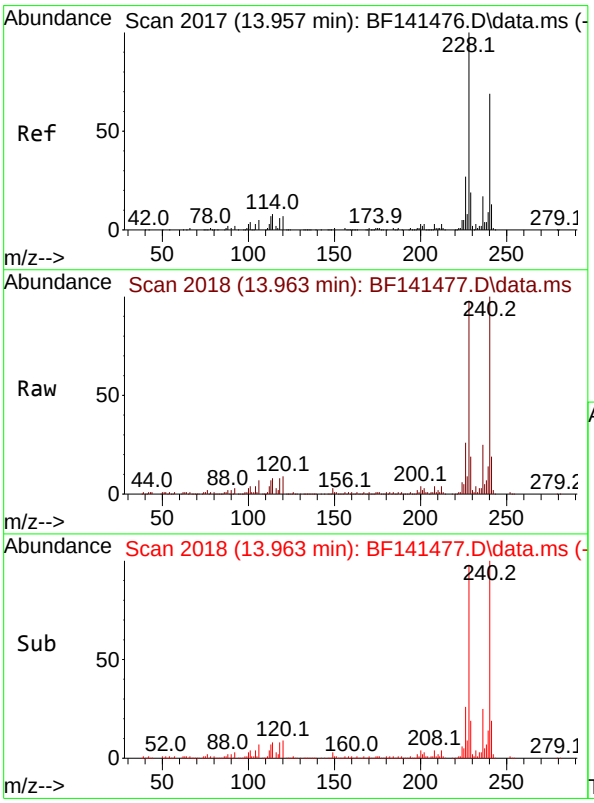
#75
Fluoranthene
Concen: 48.367 ng
RT: 12.527 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 913699

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.6	0.0	37.6

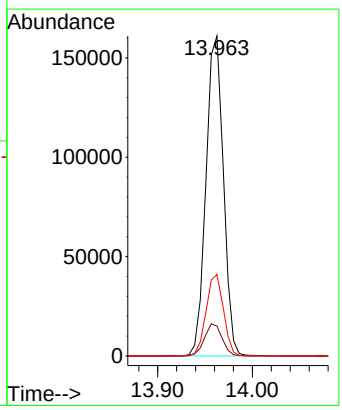


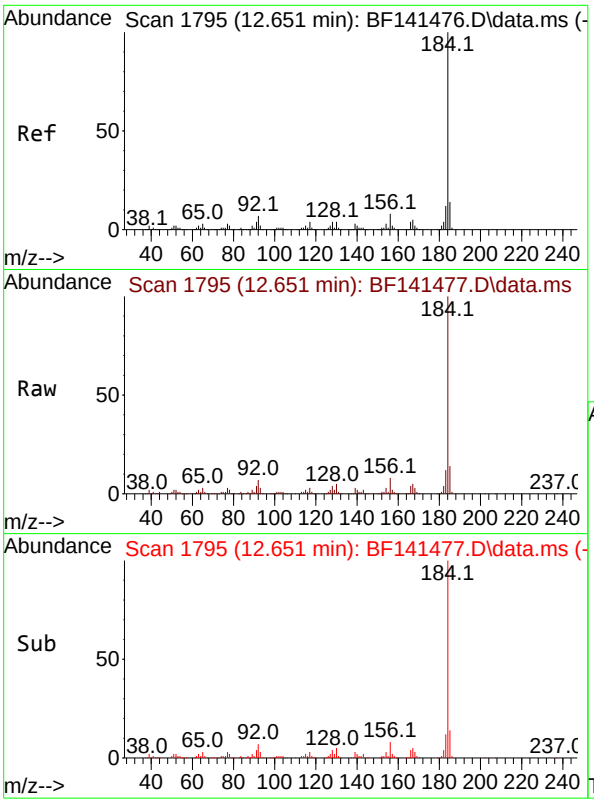


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:240 Resp: 205879

Ion	Ratio	Lower	Upper
240	100		
120	9.4	8.0	12.0
236	25.4	19.8	29.8



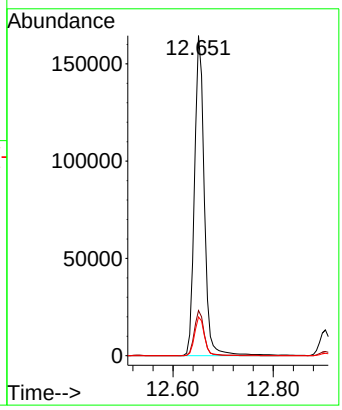


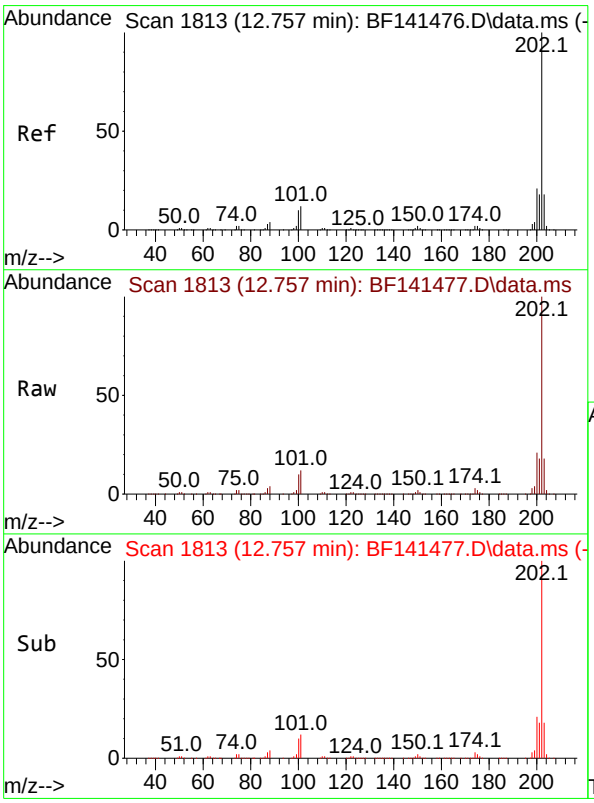
#77
Benzidine
Concen: 49.026 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 222606

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.3	16.9
183	12.1	9.3	13.9

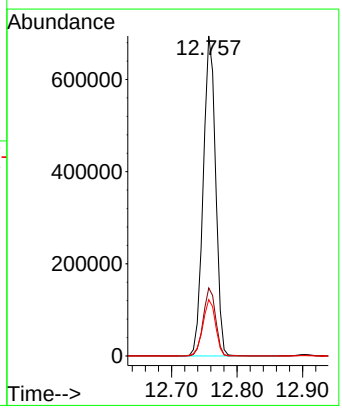


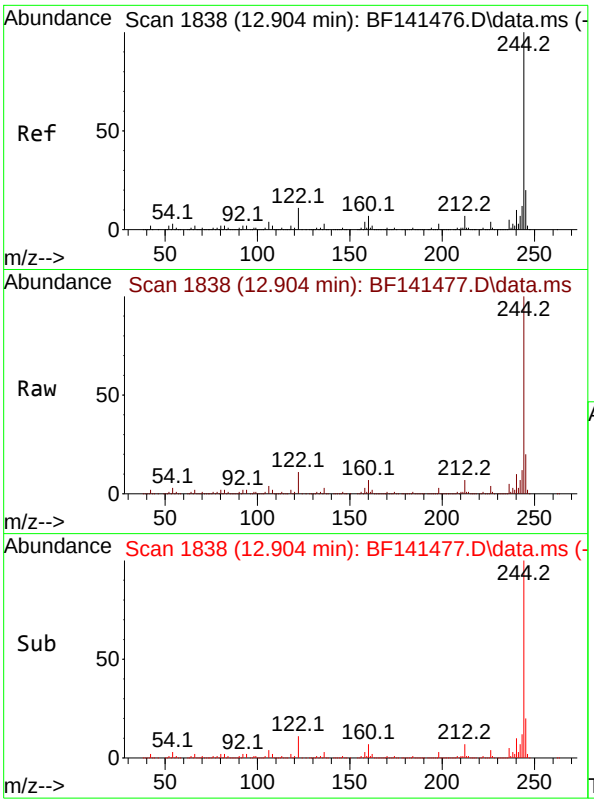


#78
Pyrene
Concen: 52.106 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:202 Resp: 913198

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.6	14.3	21.5



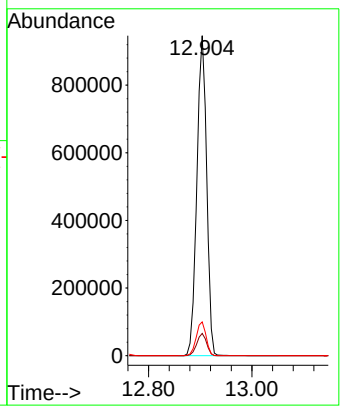


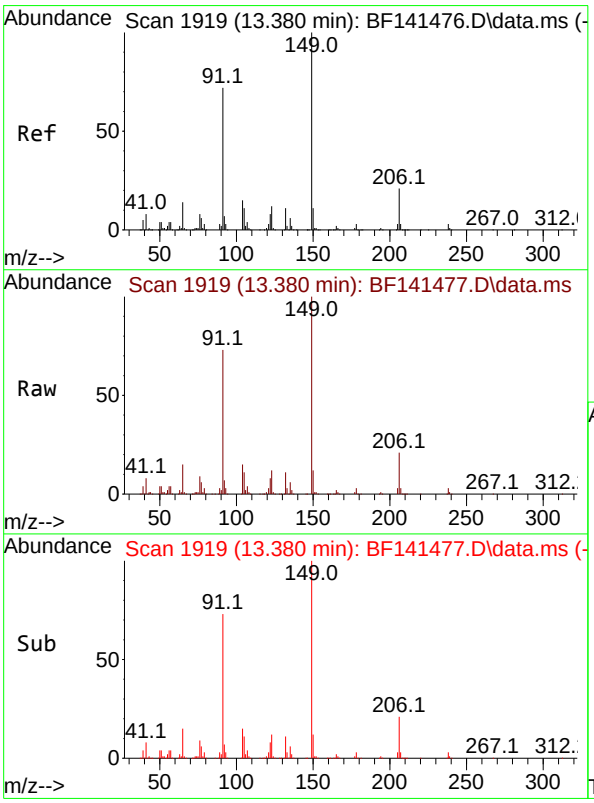
#79
Terphenyl-d14
Concen: 102.010 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 1244053

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.5	8.4	12.6

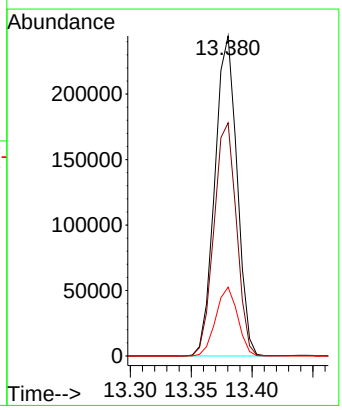


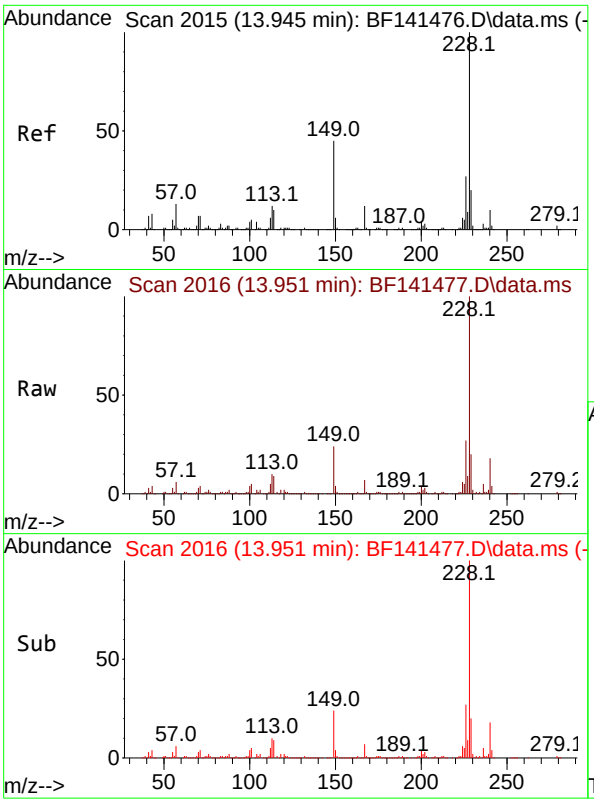


#80
Butylbenzylphthalate
Concen: 51.168 ng
RT: 13.380 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:149 Resp: 310612

Ion	Ratio	Lower	Upper
149	100		
91	72.8	57.8	86.8
206	21.5	16.7	25.1



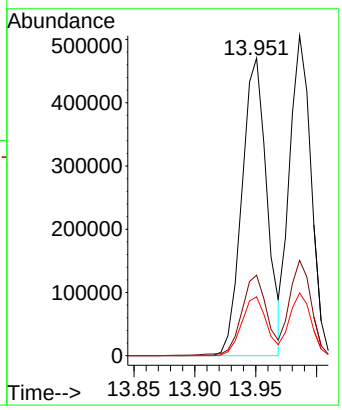


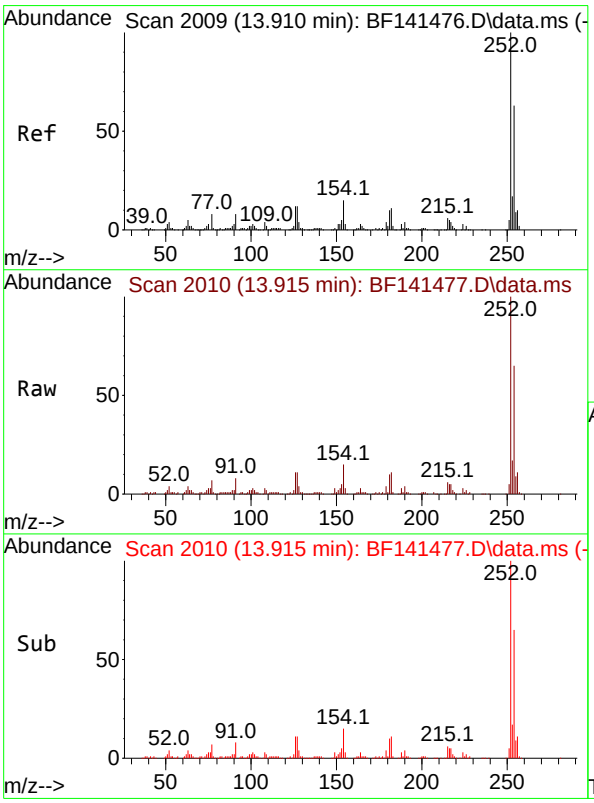
#81
Benzo(a)anthracene
Concen: 49.234 ng
RT: 13.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 673785

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.8	15.8	23.6

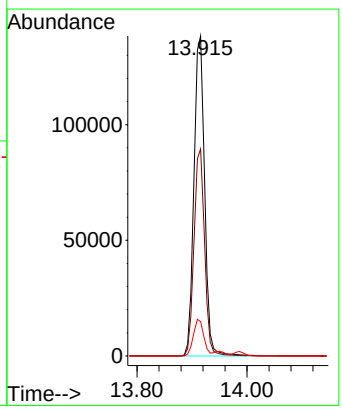


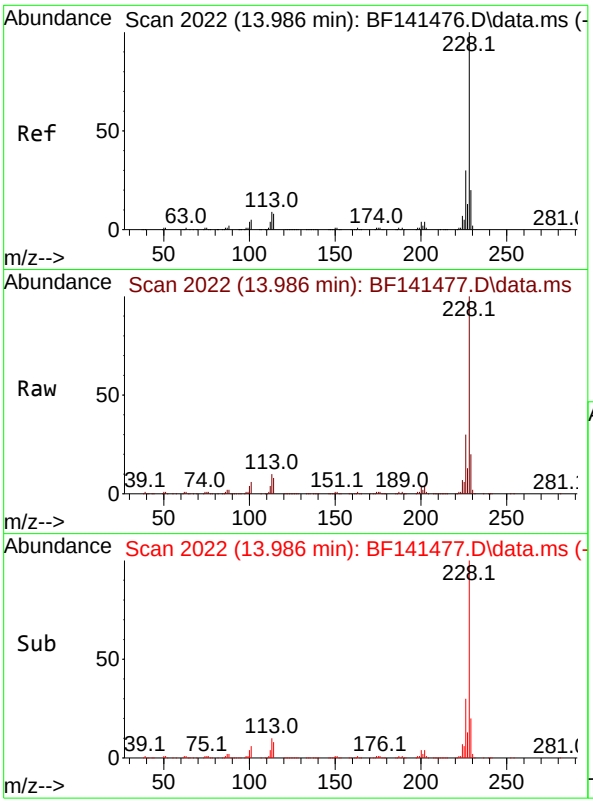


#82
3,3'-Dichlorobenzidine
Concen: 47.650 ng
RT: 13.915 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:252 Resp: 186802

Ion	Ratio	Lower	Upper
252	100		
254	64.7	50.6	76.0
126	10.8	9.3	13.9



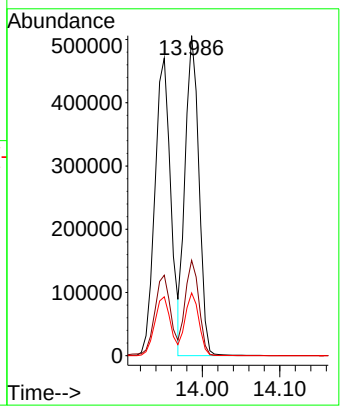


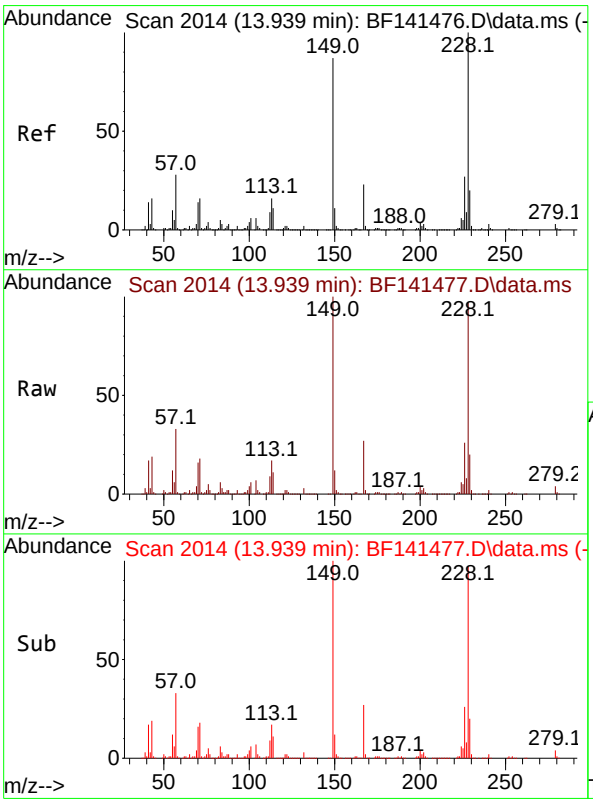
#83
Chrysene
Concen: 49.505 ng
RT: 13.986 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 625572

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.0	36.0
229	19.6	15.7	23.5

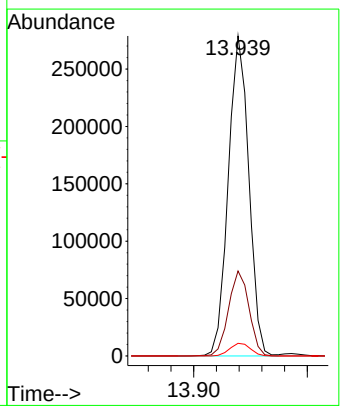


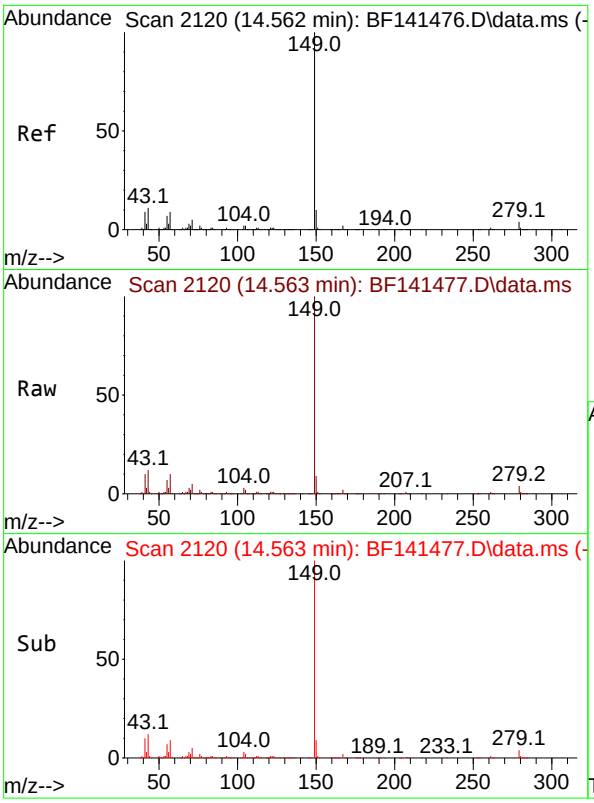


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.138 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:149 Resp: 350121

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.0
279	4.0	3.1	4.7



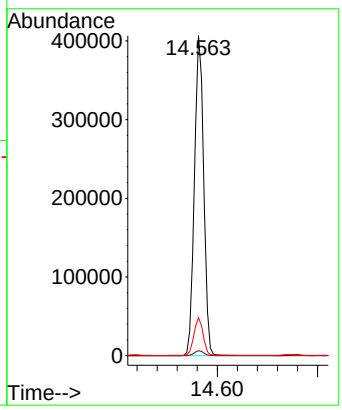


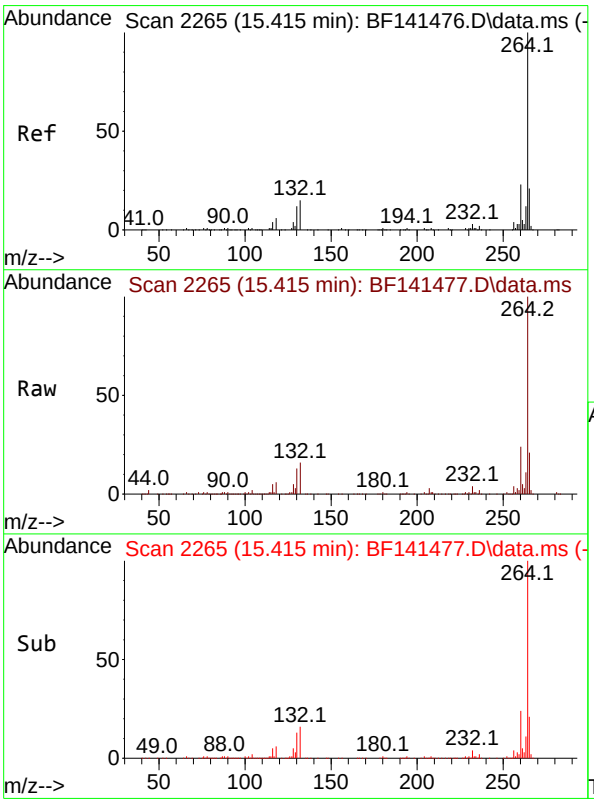
#85
Di-n-octyl phthalate
Concen: 53.213 ng
RT: 14.563 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 519741

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.7	9.5	14.3

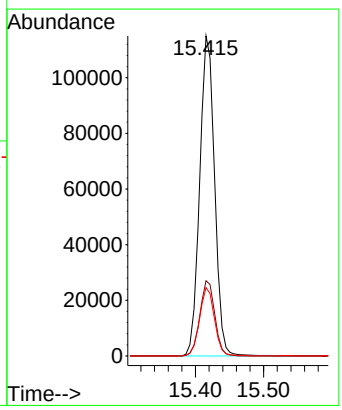


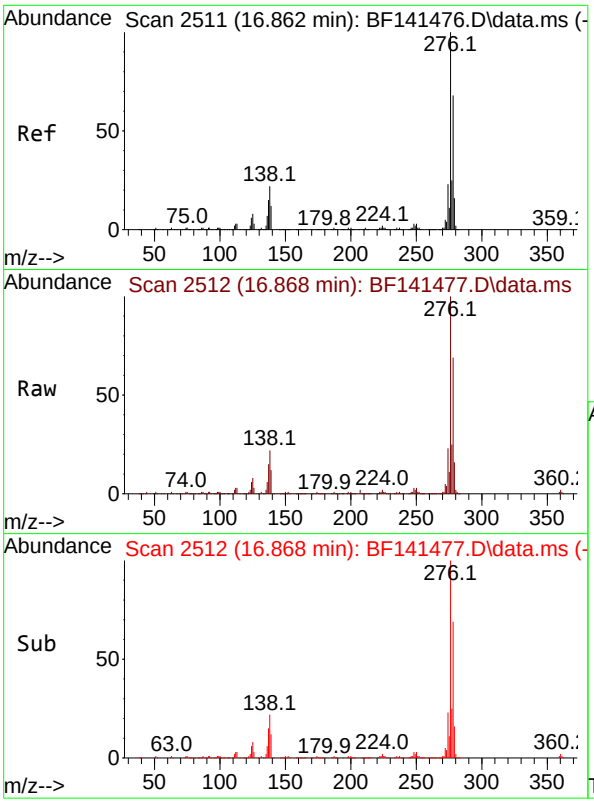


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:264 Resp: 174906

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	28.0
265	21.3	17.0	25.4



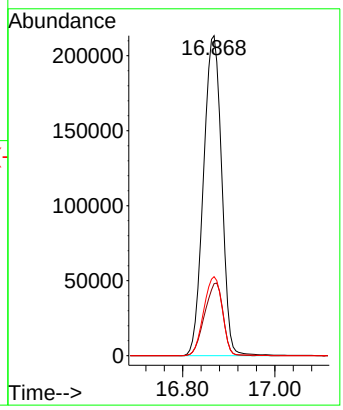


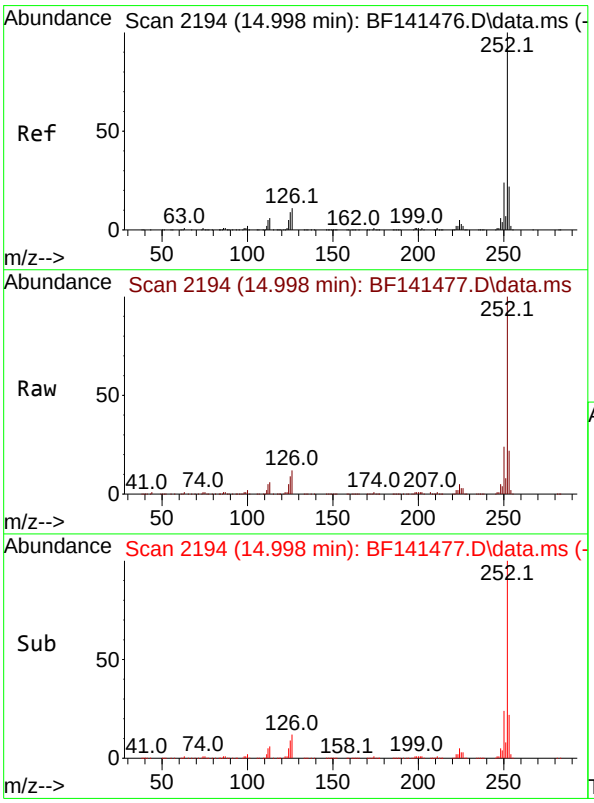
#87
Indeno(1,2,3-cd)pyrene
Concen: 54.277 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 586584

Ion	Ratio	Lower	Upper
276	100		
138	23.0	18.0	27.0
277	25.2	20.4	30.6

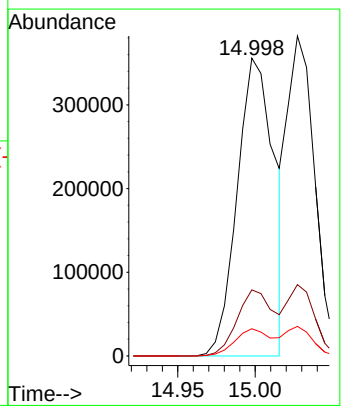


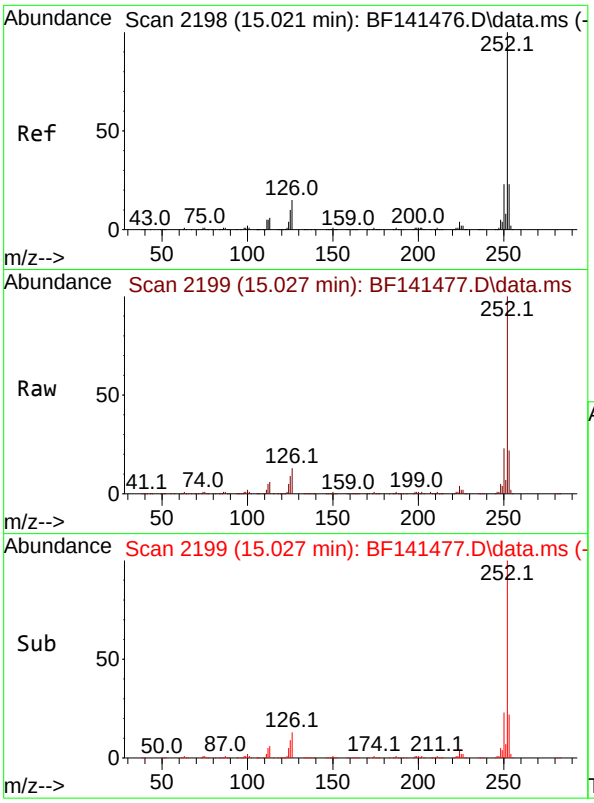


#88
Benzo(b)fluoranthene
Concen: 50.251 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:252 Resp: 590149

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	9.2	7.0	10.6



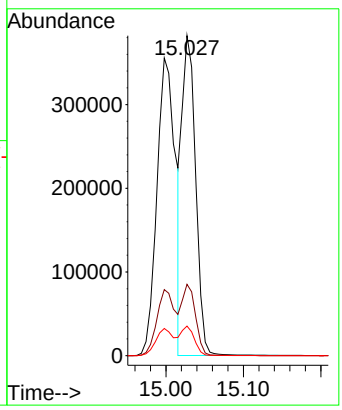


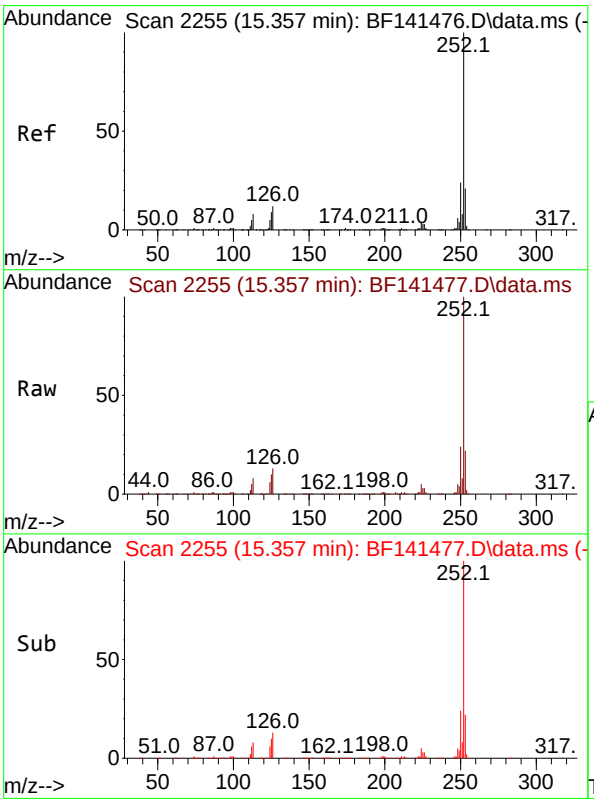
#89
Benzo(k)fluoranthene
Concen: 46.814 ng
RT: 15.027 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 469466

Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.0	27.0
125	9.2	7.4	11.0

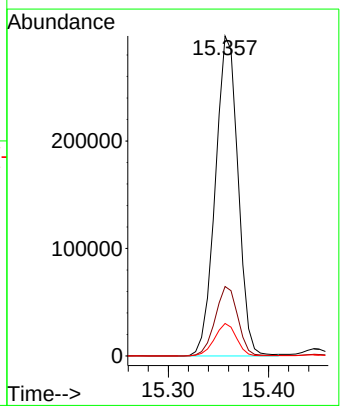


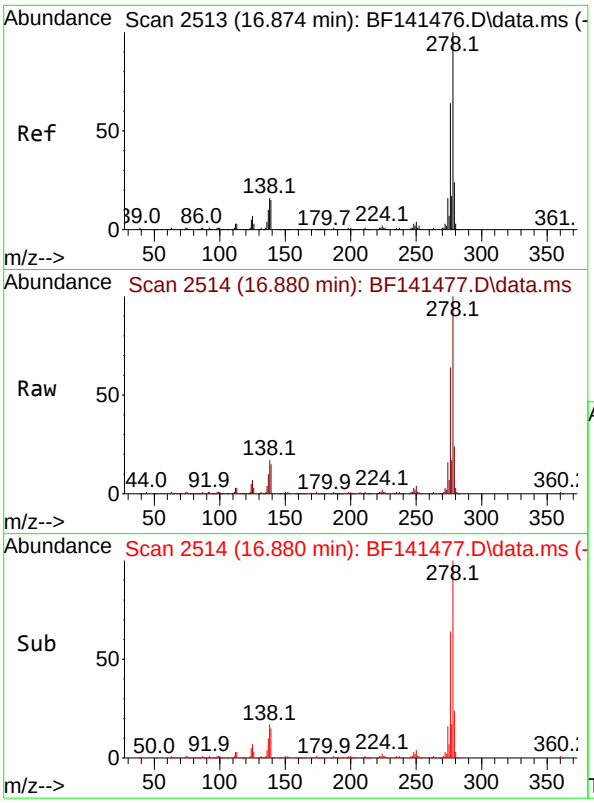


#90
Benzo(a)pyrene
Concen: 49.173 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:252 Resp: 467288

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	10.2	7.4	11.2



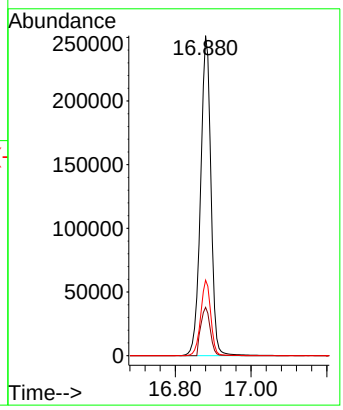


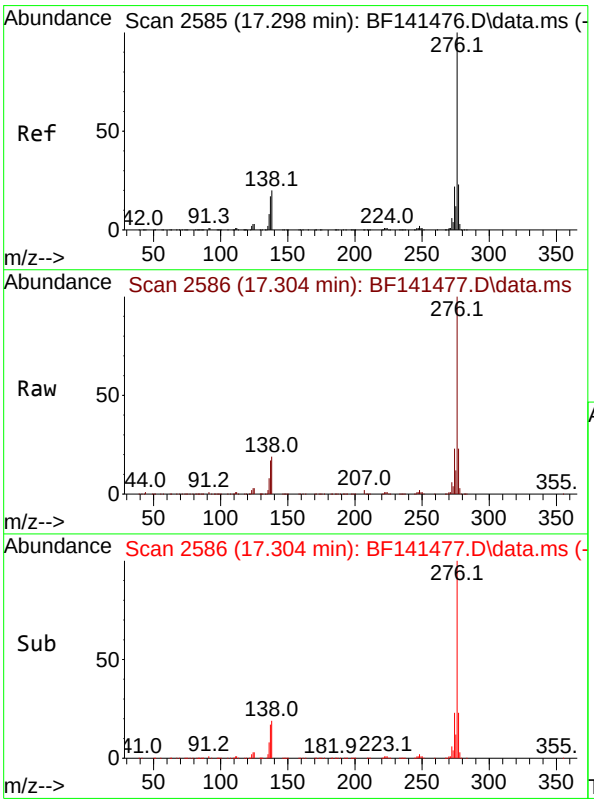
#91
Dibenzo(a,h)anthracene
Concen: 54.503 ng
RT: 16.880 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 477285

Ion	Ratio	Lower	Upper
278	100		
139	15.1	11.8	17.6
279	23.6	19.1	28.7

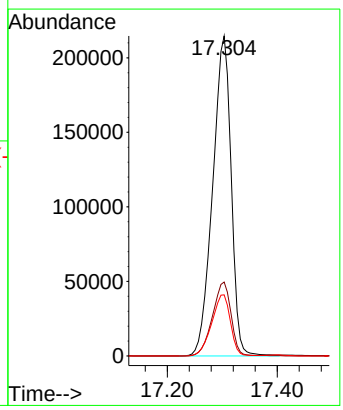




#92
Benzo(g,h,i)perylene
Concen: 54.592 ng
RT: 17.304 min Scan# 2586
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:276 Resp: 500274

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.6	28.0
138	19.1	15.9	23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141478.D
Acq On : 06 Feb 2025 13:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 06 16:00:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	88704	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	344609	20.000	ng	0.00
39) Acenaphthene-d10	9.827	164	186729	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	321893	20.000	ng	0.00
76) Chrysene-d12	13.962	240	197108	20.000	ng	0.00
86) Perylene-d12	15.415	264	171026	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	672709	118.894	ng	0.00
7) Phenol-d6	6.434	99	843410	117.937	ng	0.00
23) Nitrobenzene-d5	7.357	82	788550	119.351	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	225049	119.976	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1410277	116.358	ng	0.00
79) Terphenyl-d14	12.904	244	1459213	124.977	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.481	88	138751	60.929	ng	99
3) Pyridine	3.210	79	335519	61.916	ng	99
4) n-Nitrosodimethylamine	3.175	42	225031	62.715	ng	98
6) Aniline	6.457	93	397494	59.254	ng	99
8) 2-Chlorophenol	6.581	128	358027	58.561	ng	97
9) Benzaldehyde	6.339	77	187887	49.441	ng	100
10) Phenol	6.451	94	437528	58.782	ng	98
11) bis(2-Chloroethyl)ether	6.534	93	335957	60.093	ng	99
12) 1,3-Dichlorobenzene	6.734	146	380433	58.941	ng	98
13) 1,4-Dichlorobenzene	6.810	146	382812	58.050	ng	98
14) 1,2-Dichlorobenzene	6.963	146	357837	58.465	ng	99
15) Benzyl Alcohol	6.939	79	324244	59.125	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	553943	57.883	ng	91
17) 2-Methylphenol	7.057	107	283563	59.272	ng	97
18) Hexachloroethane	7.304	117	144816	59.337	ng	96
19) n-Nitroso-di-n-propyla...	7.210	70	250412	58.540	ng	99
20) 3+4-Methylphenols	7.210	107	350980	57.722	ng	92
22) Acetophenone	7.204	105	504294	58.828	ng	99
24) Nitrobenzene	7.381	77	387174	60.096	ng	100
25) Isophorone	7.616	82	638004	60.562	ng	99
26) 2-Nitrophenol	7.692	139	199140	62.128	ng	97
27) 2,4-Dimethylphenol	7.733	122	227803	60.836	ng	99
28) bis(2-Chloroethoxy)met...	7.828	93	404195	59.877	ng	100
29) 2,4-Dichlorophenol	7.939	162	301959	59.683	ng	99
30) 1,2,4-Trichlorobenzene	8.016	180	328150	59.561	ng	99
31) Naphthalene	8.098	128	1056367	58.889	ng	100
32) Benzoic acid	7.875	122	250995	64.532	ng	99
33) 4-Chloroaniline	8.151	127	376211	60.070	ng	99
34) Hexachlorobutadiene	8.210	225	197955	59.849	ng	99
35) Caprolactam	8.533	113	94415	61.291	ng	97
36) 4-Chloro-3-methylphenol	8.639	107	335897	59.935	ng	99
37) 2-Methylnaphthalene	8.786	142	688021	58.941	ng	99
38) 1-Methylnaphthalene	8.886	142	661628	58.522	ng	99
40) 1,2,4,5-Tetrachloroben...	8.951	216	321763	59.560	ng	99
41) Hexachlorocyclopentadiene	8.939	237	120063	66.819	ng	100
43) 2,4,6-Trichlorophenol	9.069	196	211702	60.632	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141478.D
Acq On : 06 Feb 2025 13:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 06 16:00:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

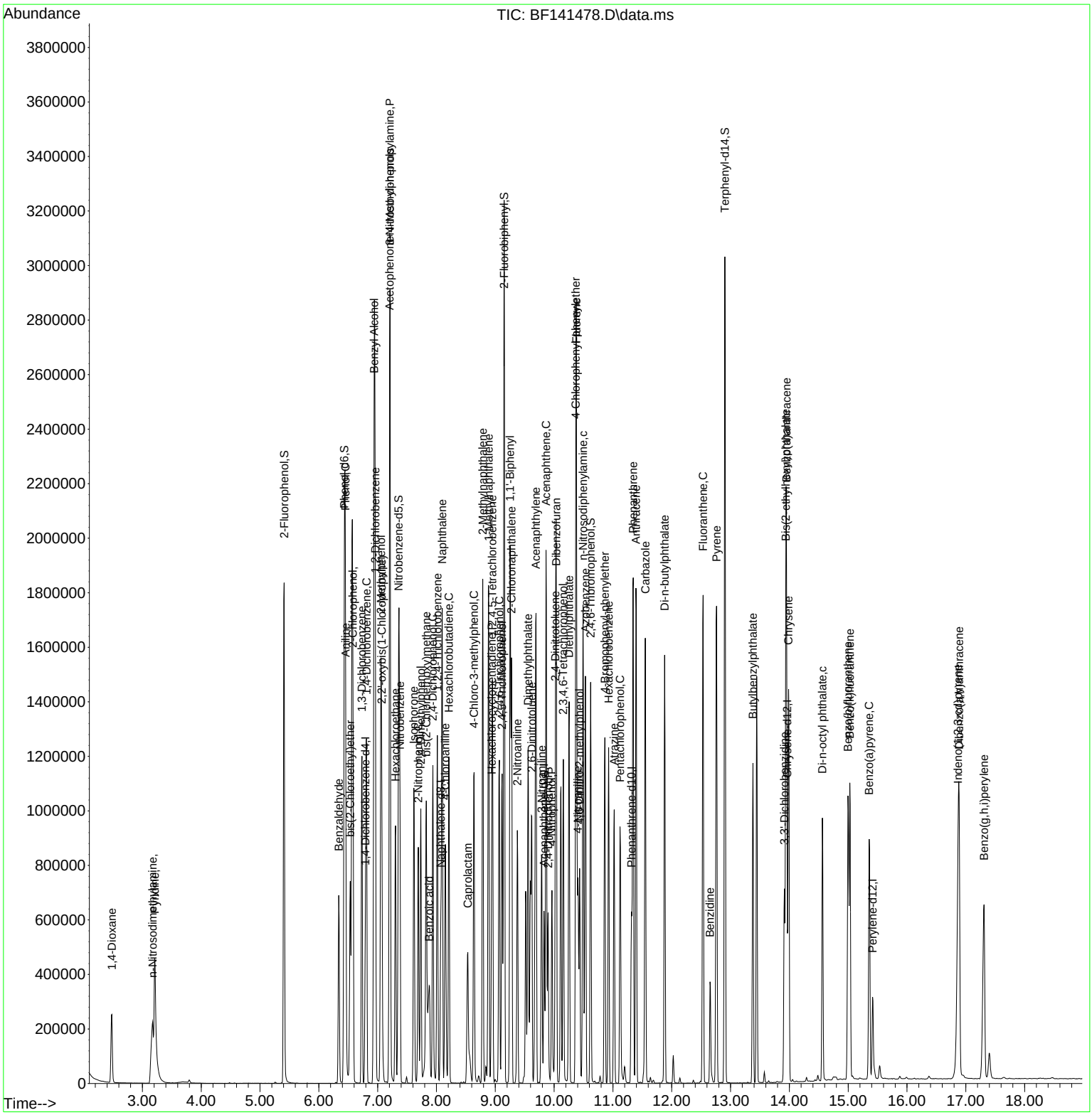
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	229006	60.519	ng	98
46) 1,1'-Biphenyl	9.251	154	861067	59.479	ng	100
47) 2-Chloronaphthalene	9.275	162	636511	59.459	ng	99
48) 2-Nitroaniline	9.375	65	224709	62.547	ng	99
49) Acenaphthylene	9.692	152	946382	59.436	ng	100
50) Dimethylphthalate	9.557	163	751128	59.253	ng	99
51) 2,6-Dinitrotoluene	9.622	165	167387	60.403	ng	100
52) Acenaphthene	9.863	154	631289	58.974	ng	99
53) 3-Nitroaniline	9.792	138	179664	60.237	ng	100
54) 2,4-Dinitrophenol	9.898	184	111060	67.432	ng	96
55) Dibenzofuran	10.039	168	915117	58.242	ng	100
56) 4-Nitrophenol	9.963	139	143994	65.035	ng	97
57) 2,4-Dinitrotoluene	10.022	165	222091	60.202	ng	99
58) Fluorene	10.380	166	707371	58.225	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	198636	60.972	ng	99
60) Diethylphthalate	10.257	149	732804	58.755	ng	99
61) 4-Chlorophenyl-phenyle...	10.369	204	342324	58.570	ng	98
62) 4-Nitroaniline	10.404	138	182946	60.406	ng	96
63) Azobenzene	10.533	77	739338	59.629	ng	98
65) 4,6-Dinitro-2-methylph...	10.433	198	140610	62.884	ng	99
66) n-Nitrosodiphenylamine	10.492	169	603914	58.609	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	213385	59.314	ng	98
68) Hexachlorobenzene	10.927	284	220611	59.552	ng	98
69) Atrazine	11.021	200	175824	56.878	ng	99
70) Pentachlorophenol	11.121	266	153971	65.001	ng	100
71) Phenanthrene	11.345	178	1032075	58.248	ng	100
72) Anthracene	11.392	178	1034181	58.062	ng	99
73) Carbazole	11.551	167	927882	57.896	ng	100
74) Di-n-butylphthalate	11.880	149	1087815	58.783	ng	99
75) Fluoranthene	12.533	202	1053887	56.102	ng	100
77) Benzidine	12.651	184	207602	47.757	ng	99
78) Pyrene	12.763	202	1068624	63.687	ng	99
80) Butylbenzylphthalate	13.380	149	368219	63.357	ng	99
81) Benzo(a)anthracene	13.951	228	774318	59.097	ng	100
82) 3,3'-Dichlorobenzidine	13.915	252	208826	55.639	ng	98
83) Chrysene	13.986	228	723815	59.829	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	411979	62.851	ng	100
85) Di-n-octyl phthalate	14.562	149	621505	66.464	ng	100
87) Indeno(1,2,3-cd)pyrene	16.868	276	723493	68.464	ng	100
88) Benzo(b)fluoranthene	14.998	252	695617	60.575	ng	99
89) Benzo(k)fluoranthene	15.027	252	563342	57.449	ng	99
90) Benzo(a)pyrene	15.357	252	561457	60.423	ng	98
91) Dibenzo(a,h)anthracene	16.886	278	584115	68.216	ng	99
92) Benzo(g,h,i)perylene	17.309	276	617241	68.884	ng	99

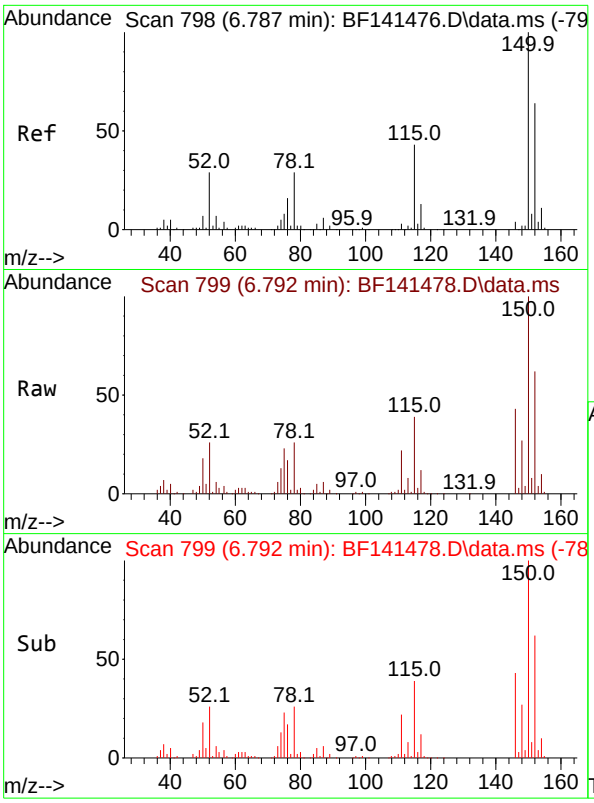
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141478.D
Acq On : 06 Feb 2025 13:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 06 16:00:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



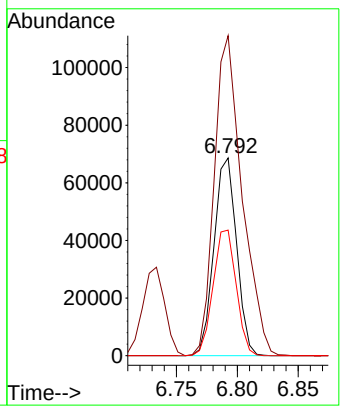


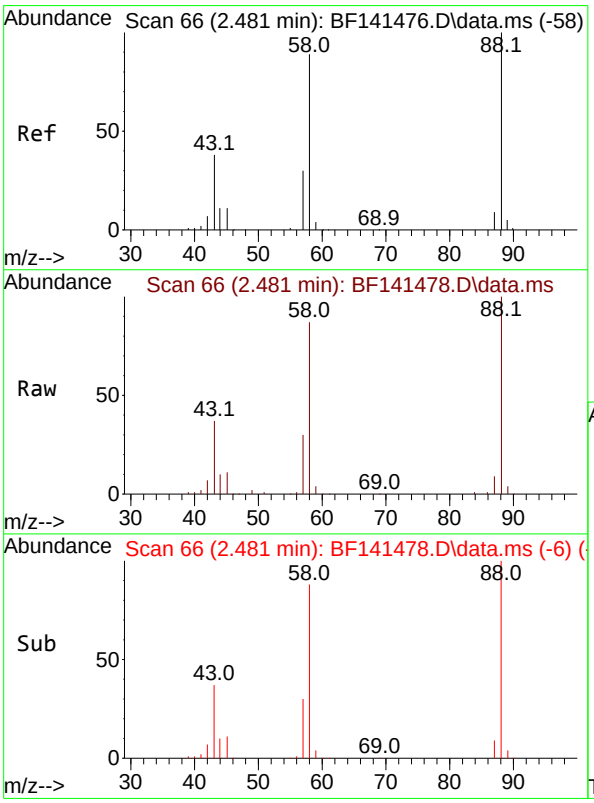
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 88704

Ion	Ratio	Lower	Upper
152	100		
150	161.8	125.0	187.4
115	63.6	53.6	80.4

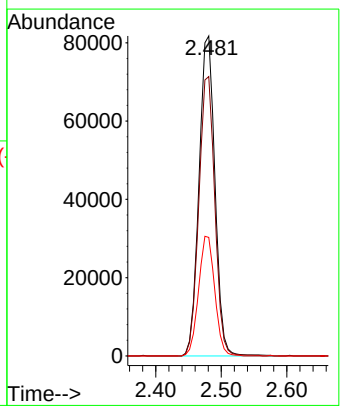


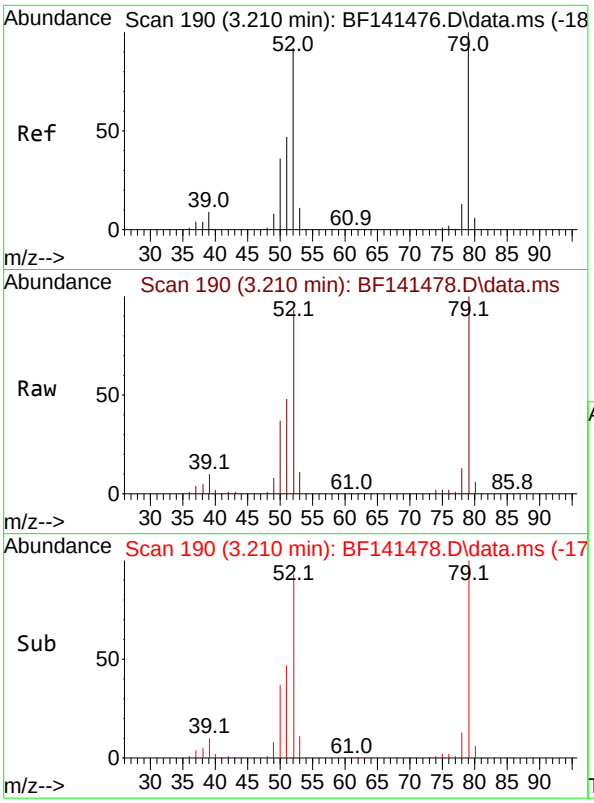


#2
1,4-Dioxane
Concen: 60.929 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 88 Resp: 138751

Ion	Ratio	Lower	Upper
88	100		
58	87.5	71.1	106.7
43	37.9	30.6	46.0



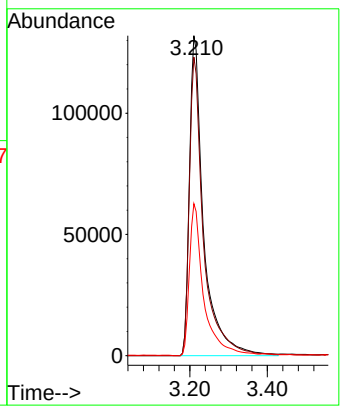


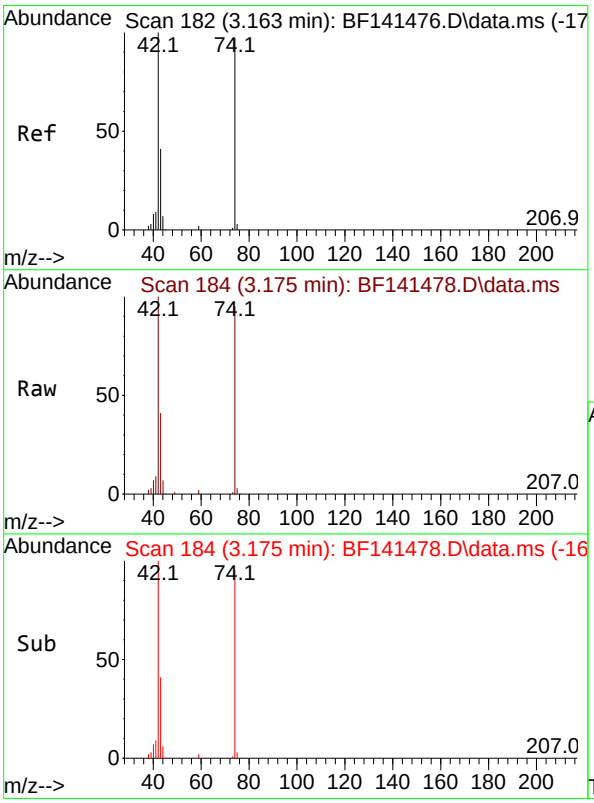
#3
Pyridine
Concen: 61.916 ng
RT: 3.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 335519

Ion	Ratio	Lower	Upper
79	100		
52	93.3	73.7	110.5
51	47.5	37.5	56.3

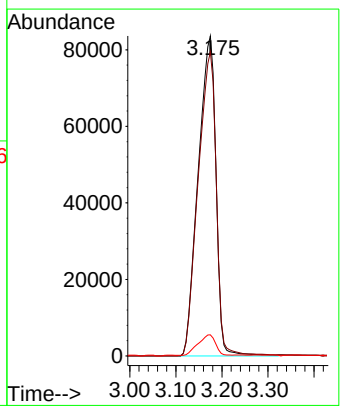


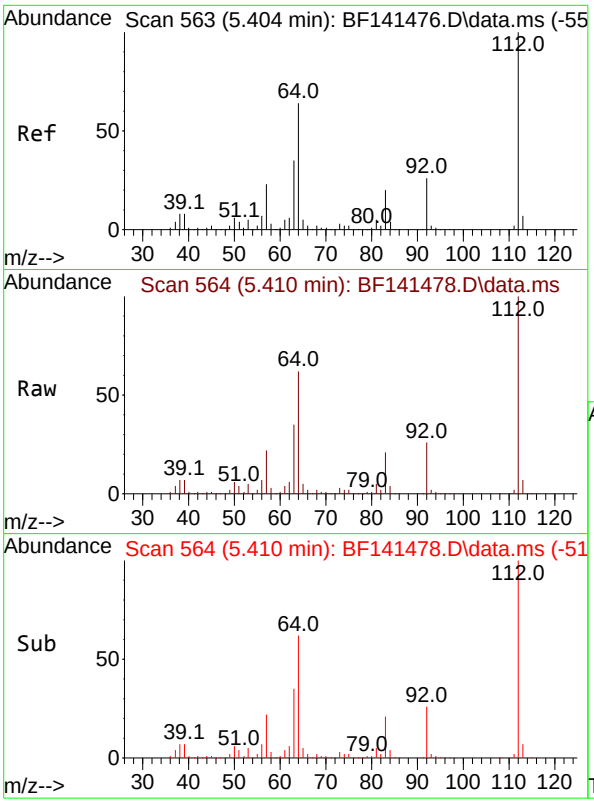


#4
n-Nitrosodimethylamine
Concen: 62.715 ng
RT: 3.175 min Scan# 184
Delta R.T. -0.012 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 42 Resp: 225031

Ion	Ratio	Lower	Upper
42	100		
74	95.0	78.0	117.0
44	6.6	5.4	8.2



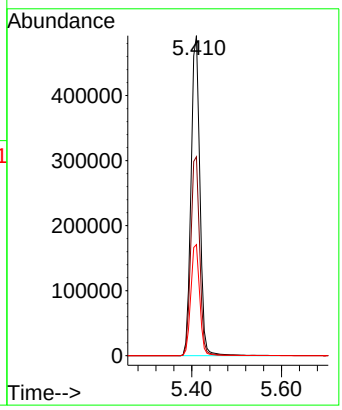


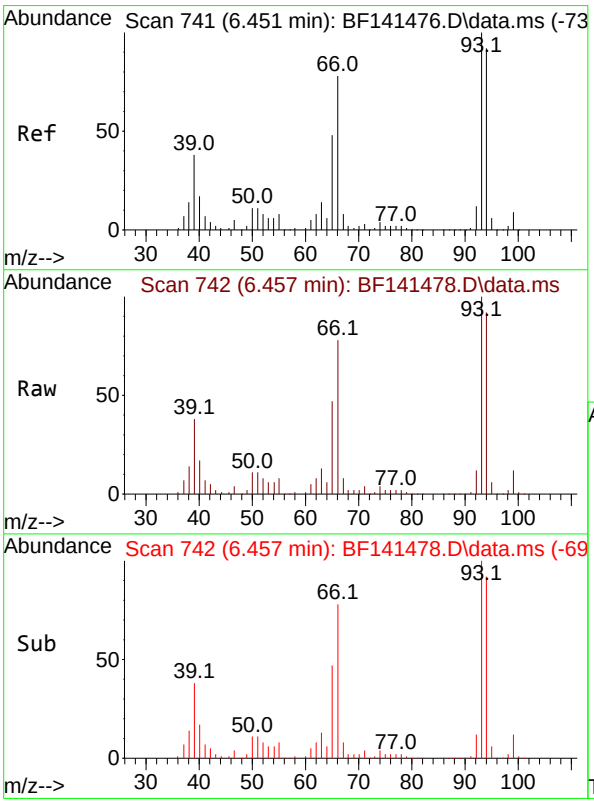
#5
2-Fluorophenol
Concen: 118.894 ng
RT: 5.410 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 672709

Ion	Ratio	Lower	Upper
112	100		
64	62.2	51.1	76.7
63	34.7	28.4	42.6

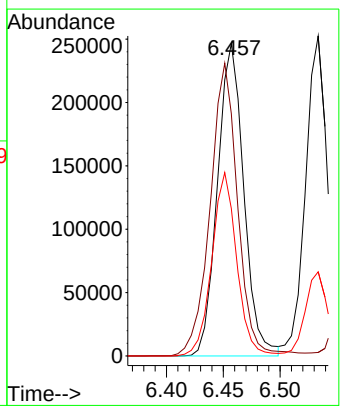


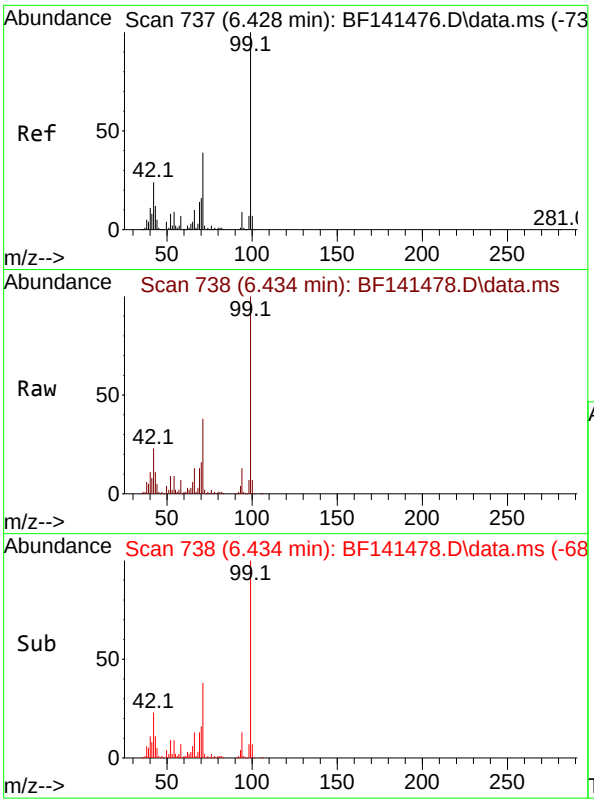


#6
Aniline
Concen: 59.254 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 93 Resp: 397494

Ion	Ratio	Lower	Upper
93	100		
66	77.6	62.6	94.0
65	47.2	38.3	57.5



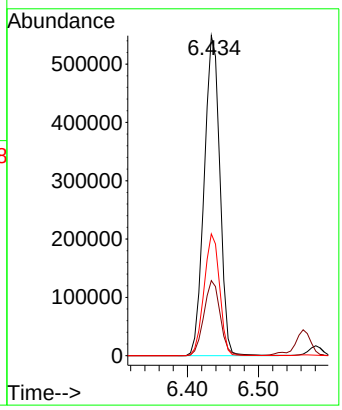


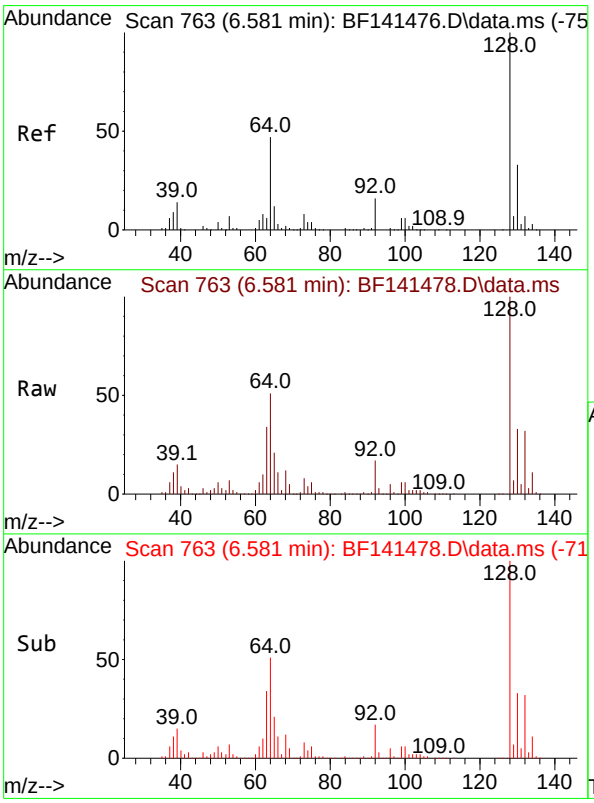
#7
Phenol-d6
Concen: 117.937 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 843410

Ion	Ratio	Lower	Upper
99	100		
42	23.5	19.1	28.7
71	38.0	31.1	46.7

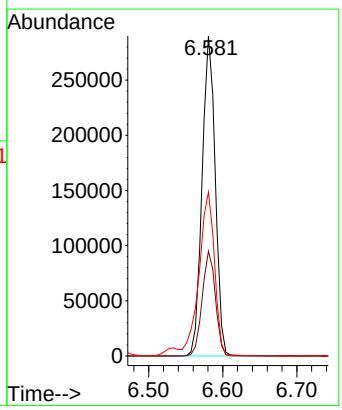


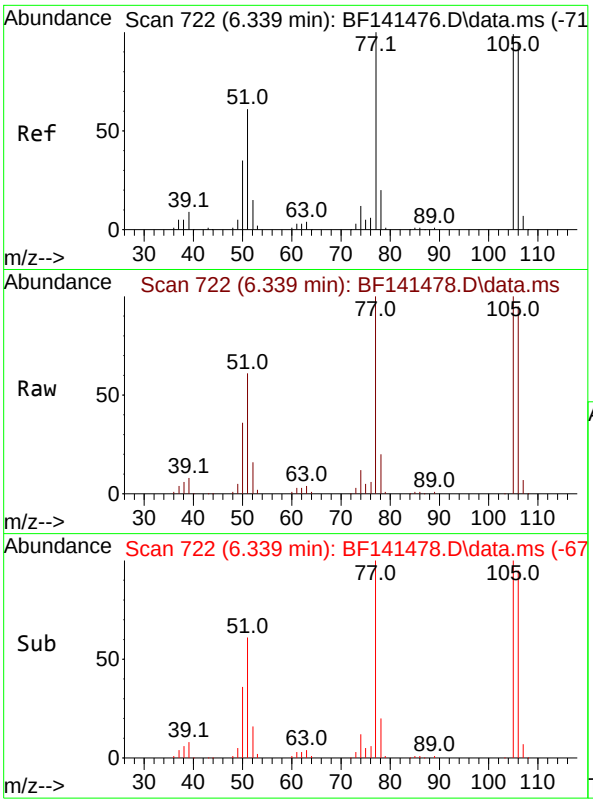


#8
2-Chlorophenol
Concen: 58.561 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:128 Resp: 358027

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.7	52.7
64	51.3	28.3	68.3



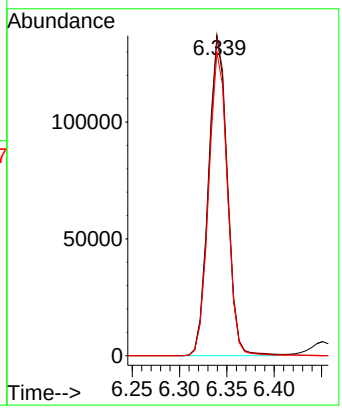


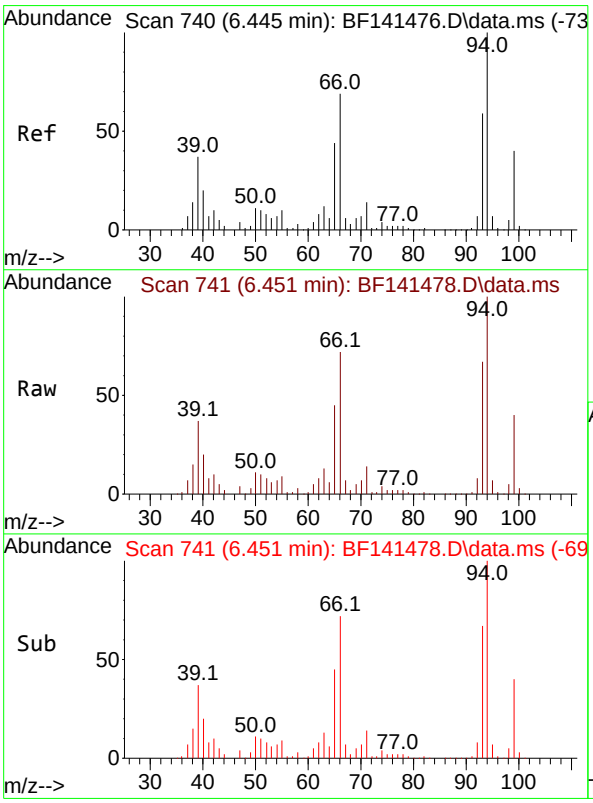
#9
Benzaldehyde
Concen: 49.441 ng
RT: 6.339 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 187887

Ion	Ratio	Lower	Upper
77	100		
105	99.7	79.4	119.4
106	94.9	75.1	115.1

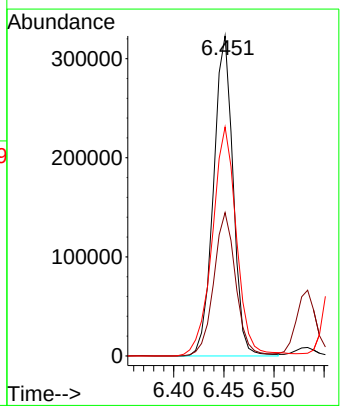


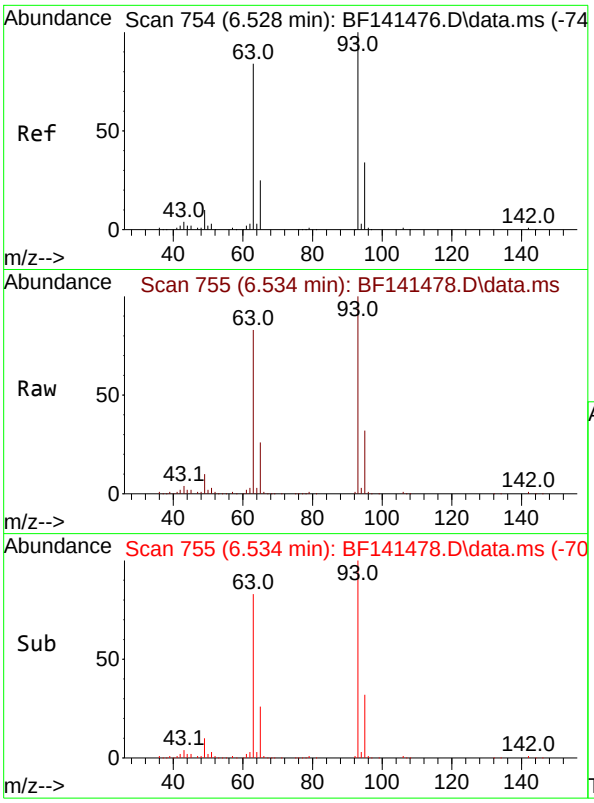


#10
Phenol
Concen: 58.782 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 94 Resp: 437528

Ion	Ratio	Lower	Upper
94	100		
65	44.8	23.7	63.7
66	71.5	49.3	89.3



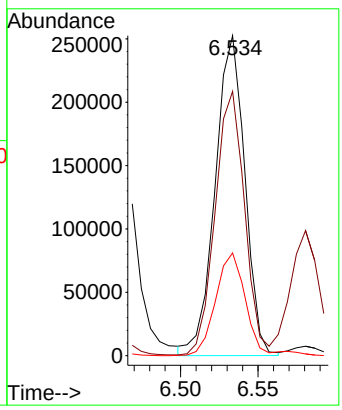


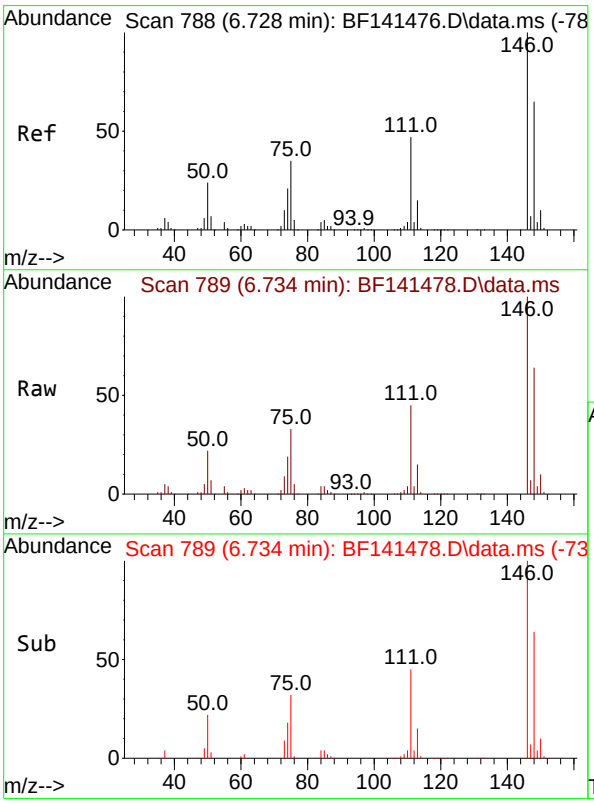
#11
bis(2-Chloroethyl)ether
Concen: 60.093 ng
RT: 6.534 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 335957

Ion	Ratio	Lower	Upper
93	100		
63	82.6	62.0	102.0
95	32.1	12.6	52.6

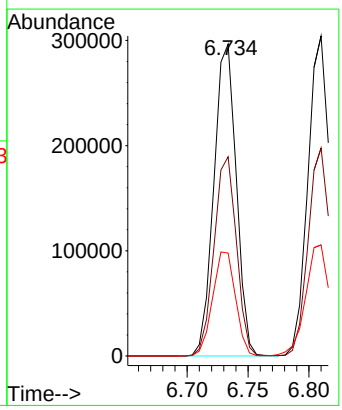


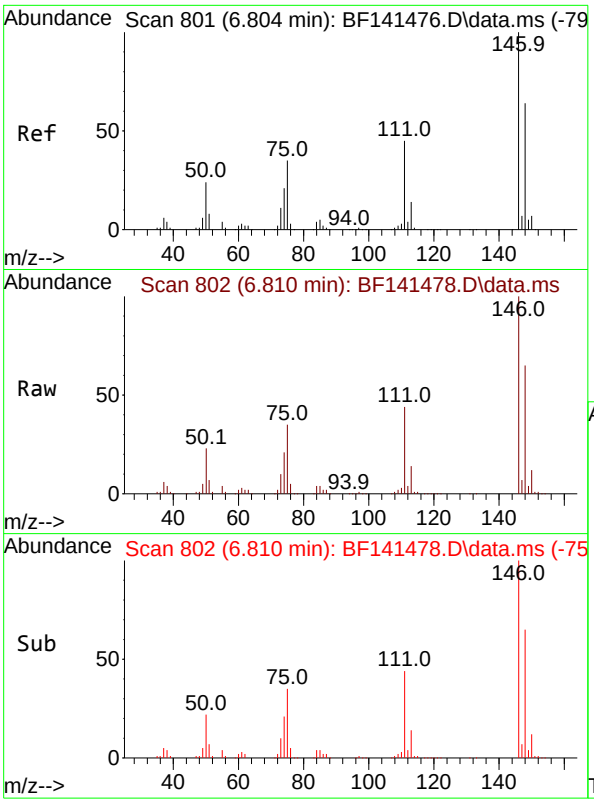


#12
1,3-Dichlorobenzene
Concen: 58.941 ng
RT: 6.734 min Scan# 789
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:146 Resp: 380433

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.9	77.9
75	33.0	28.2	42.2



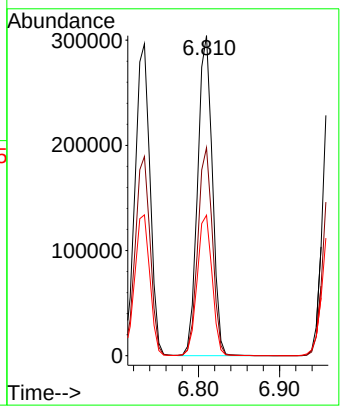


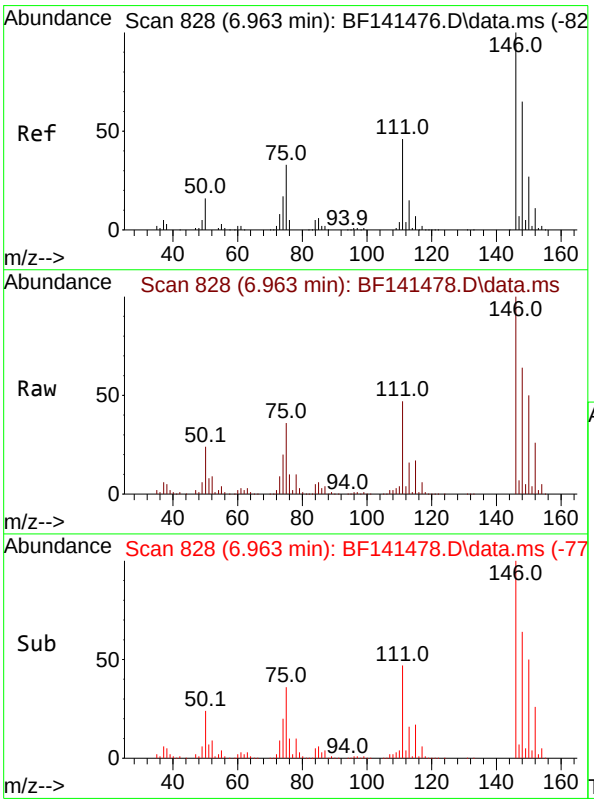
#13
1,4-Dichlorobenzene
Concen: 58.050 ng
RT: 6.810 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 382812

Ion	Ratio	Lower	Upper
146	100		
148	65.0	50.9	76.3
111	43.9	35.9	53.9

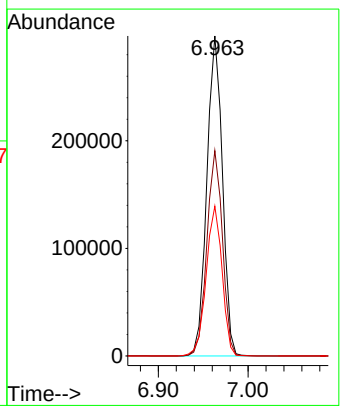


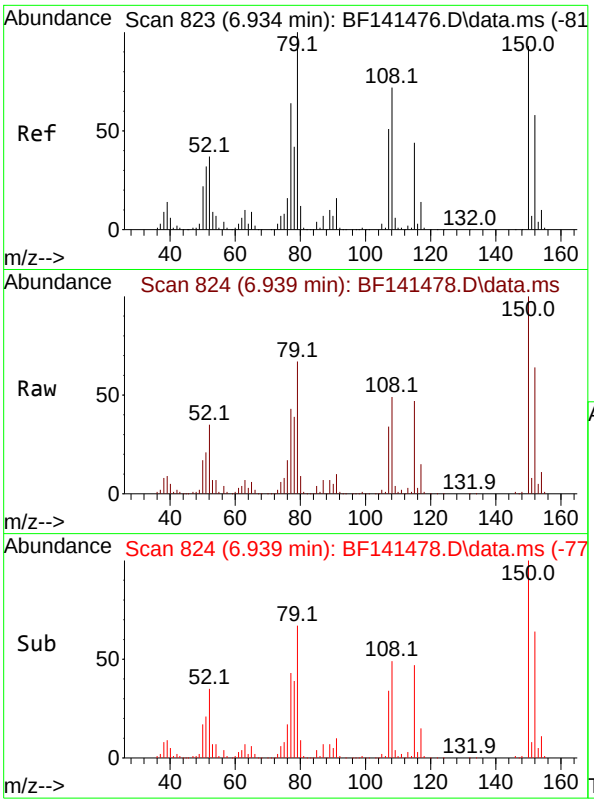


#14
1,2-Dichlorobenzene
Concen: 58.465 ng
RT: 6.963 min Scan# 828
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:146 Resp: 357837

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.8	77.6
111	46.8	37.0	55.4



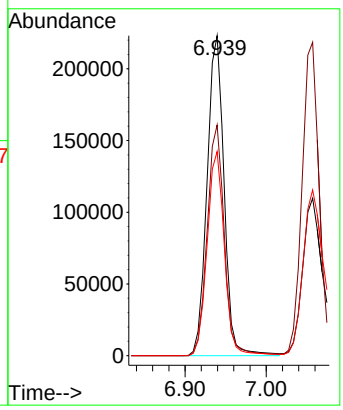


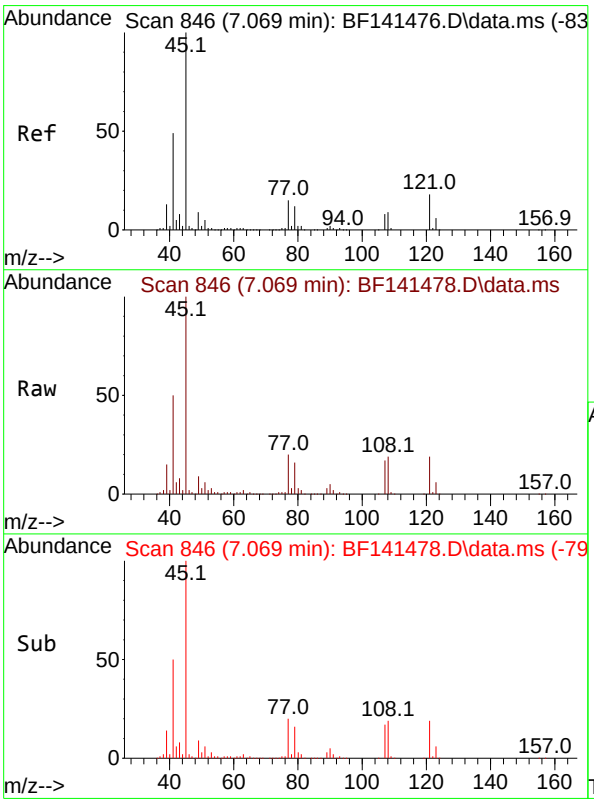
#15
Benzyl Alcohol
Concen: 59.125 ng
RT: 6.939 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 324244

Ion	Ratio	Lower	Upper
79	100		
108	72.1	57.4	86.2
77	63.8	50.9	76.3

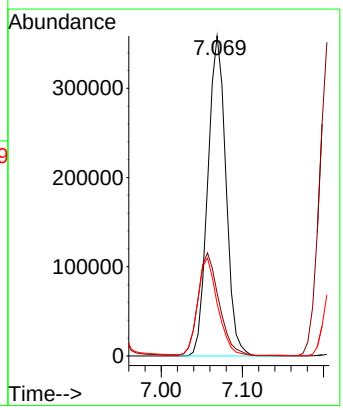


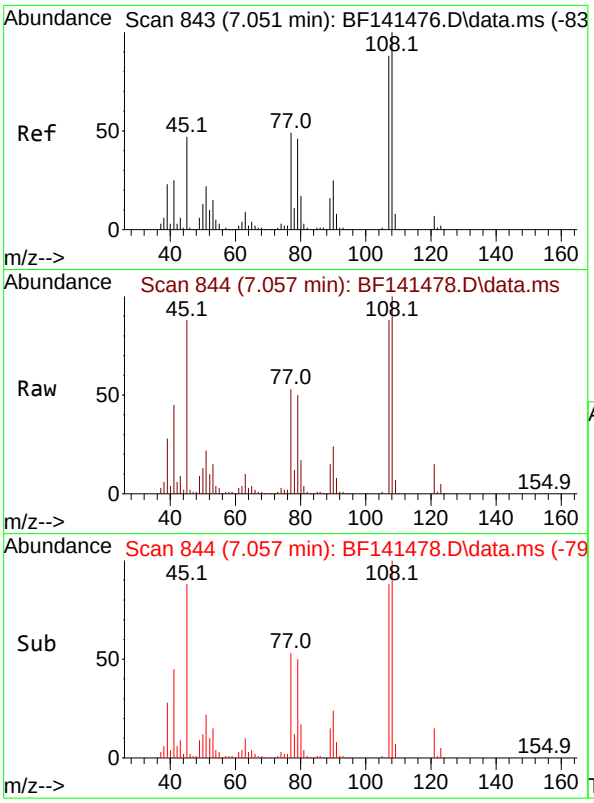


#16
2,2'-oxybis(1-Chloropropane)
Concen: 57.883 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 45 Resp: 553943

Ion	Ratio	Lower	Upper
45	100		
77	19.6	0.0	35.8
79	16.3	0.0	32.7



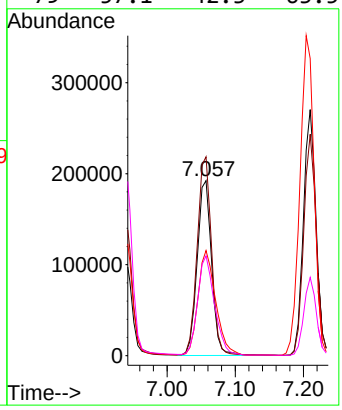


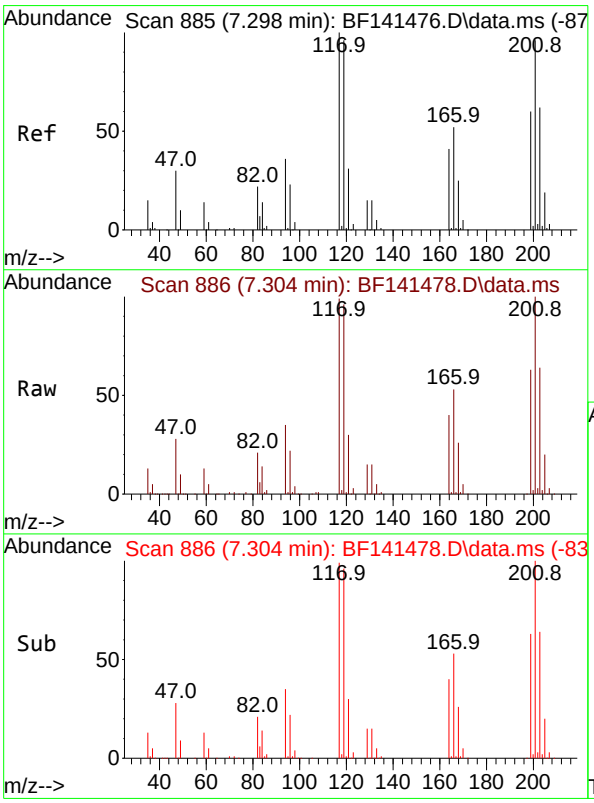
#17
2-Methylphenol
Concen: 59.272 ng
RT: 7.057 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 283563

Ion	Ratio	Lower	Upper
107	100		
108	113.6	90.6	136.0
77	60.1	44.4	66.6
79	57.1	42.3	63.5

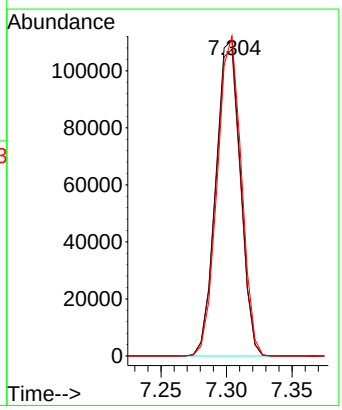


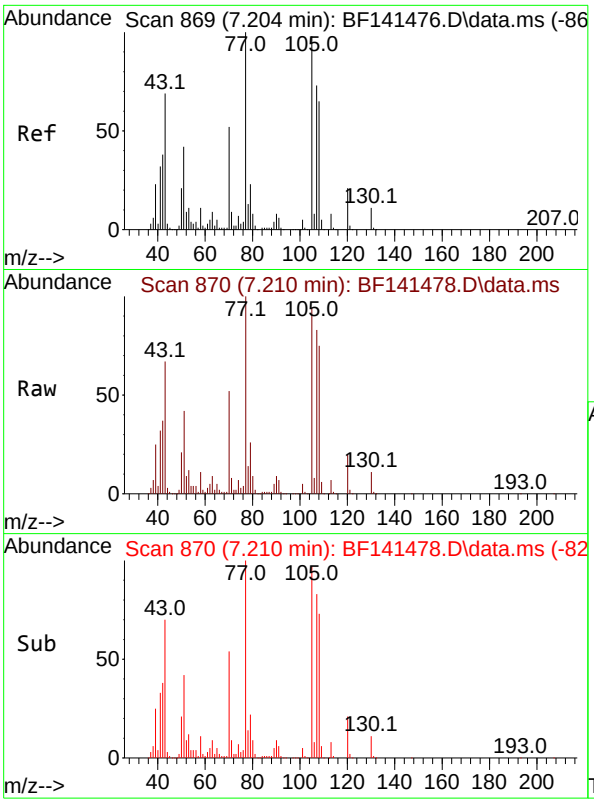


#18
Hexachloroethane
Concen: 59.337 ng
RT: 7.304 min Scan# 886
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:117 Resp: 144816

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.5	114.7
201	101.4	76.7	115.1



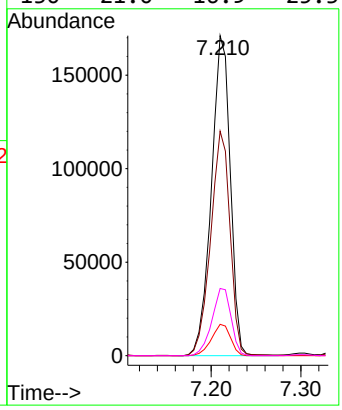


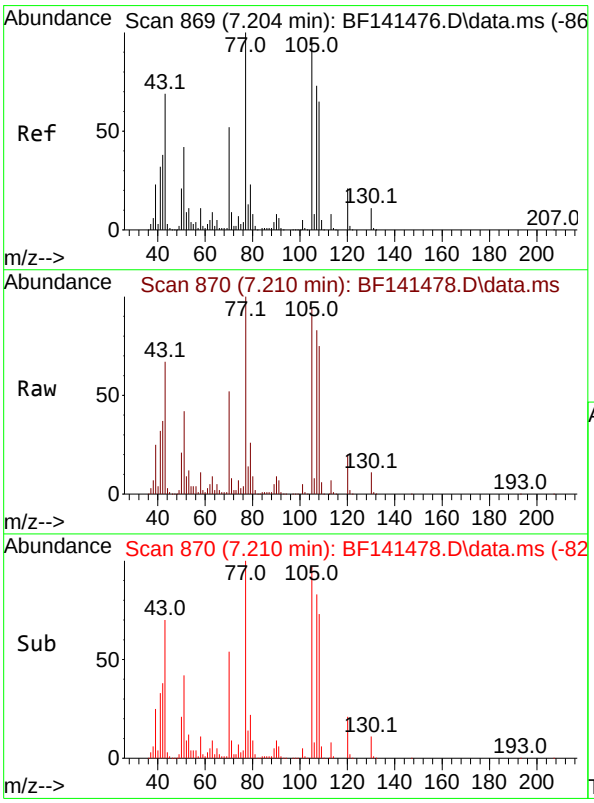
#19
n-Nitroso-di-n-propylamine
Concen: 58.540 ng
RT: 7.210 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 250412

Ion	Ratio	Lower	Upper
70	100		
42	70.1	57.4	86.2
101	9.8	8.0	12.0
130	21.0	16.9	25.3

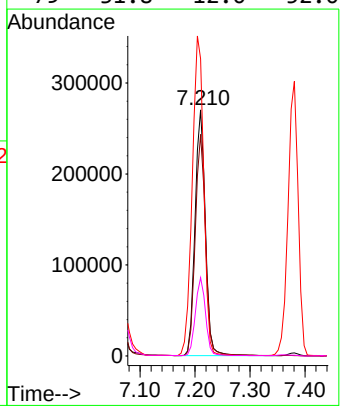


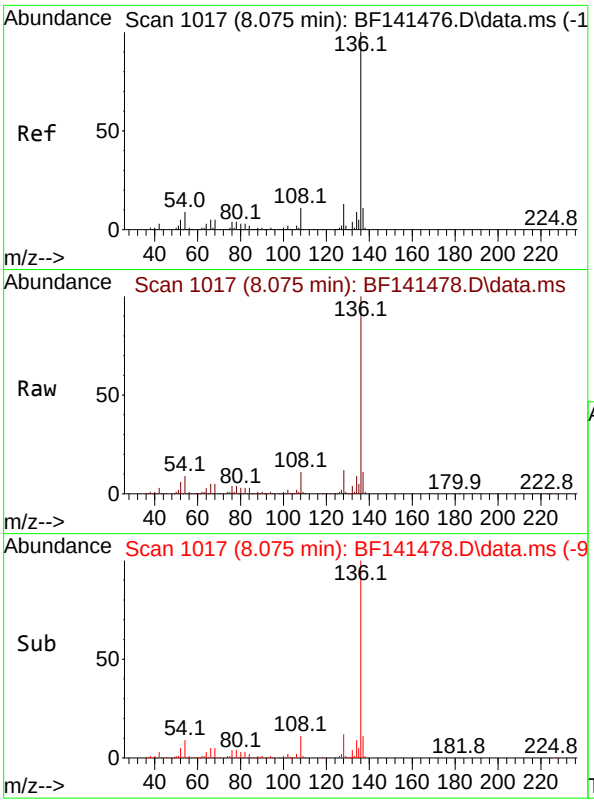


#20
3+4-Methylphenols
Concen: 57.722 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:107 Resp: 350980

Ion	Ratio	Lower	Upper
107	100		
108	90.0	68.5	108.5
77	120.7	116.5	156.5
79	31.8	12.0	52.0



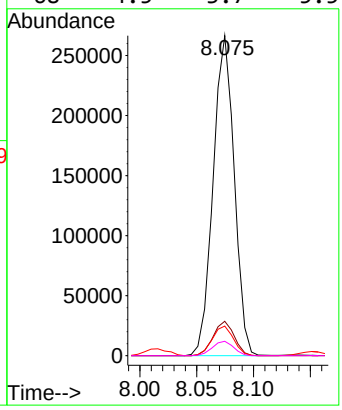


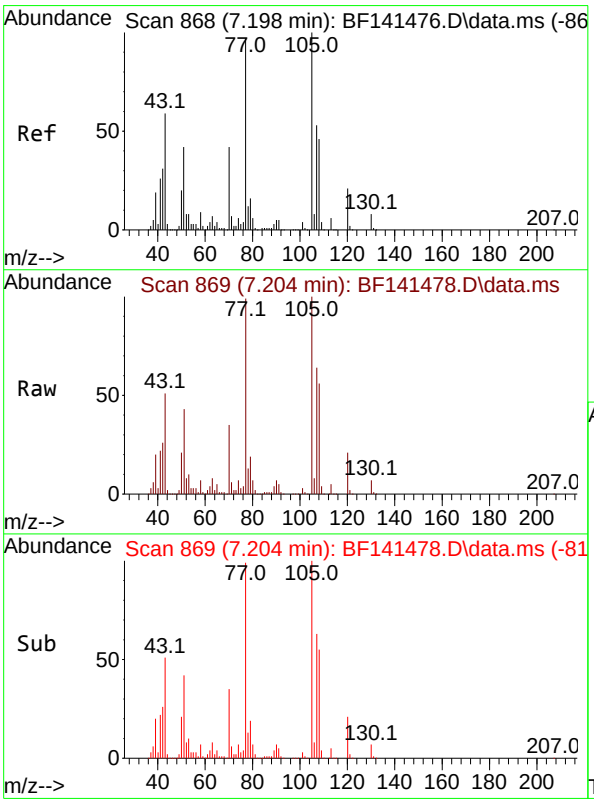
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 344609

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.2	7.2	10.8
68	4.5	3.7	5.5

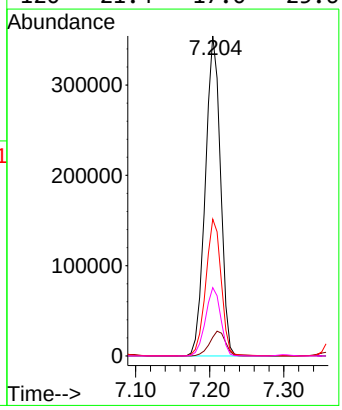


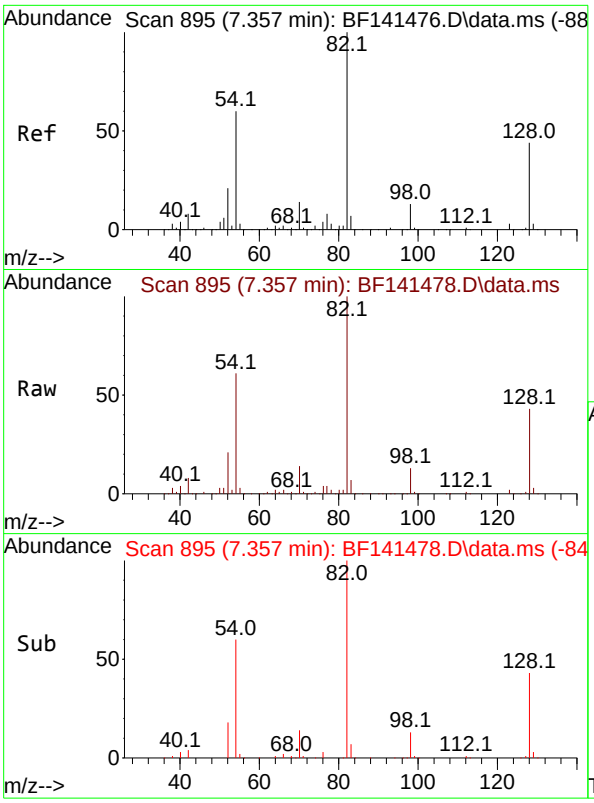


#22
Acetophenone
Concen: 58.828 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:105 Resp: 504294

Ion	Ratio	Lower	Upper
105	100		
71	5.9	5.7	8.5
51	42.7	33.7	50.5
120	21.4	17.0	25.6



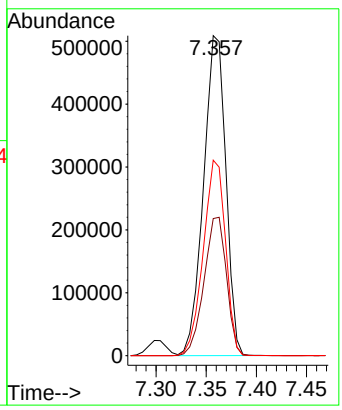


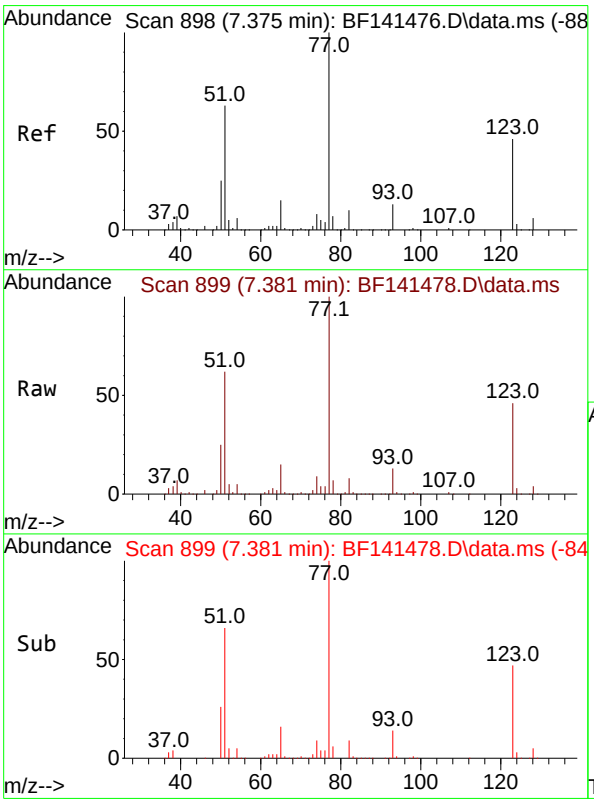
#23
Nitrobenzene-d5
Concen: 119.351 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 788550

Ion	Ratio	Lower	Upper
82	100		
128	42.9	34.8	52.2
54	61.1	48.2	72.4

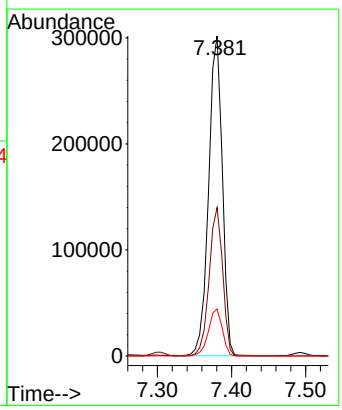


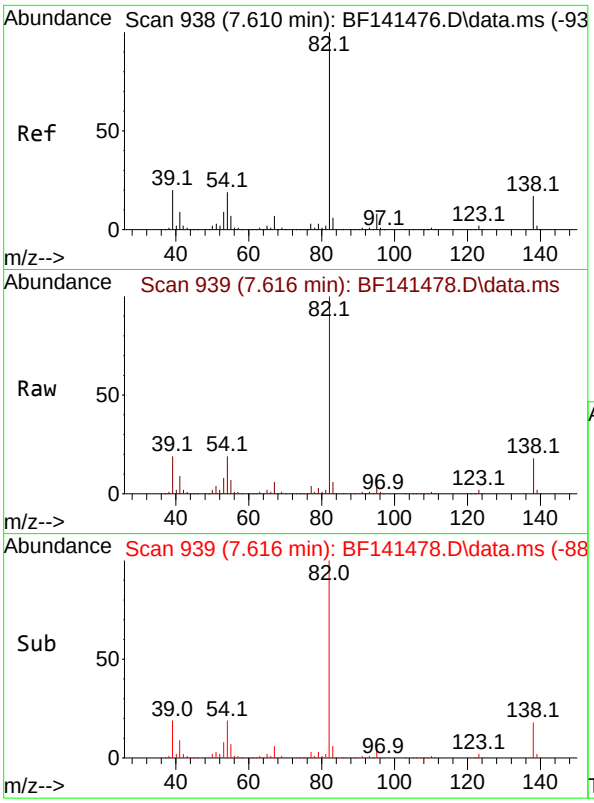


#24
Nitrobenzene
Concen: 60.096 ng
RT: 7.381 min Scan# 899
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 77 Resp: 387174

Ion	Ratio	Lower	Upper
77	100		
123	46.4	36.9	55.3
65	14.7	11.9	17.9



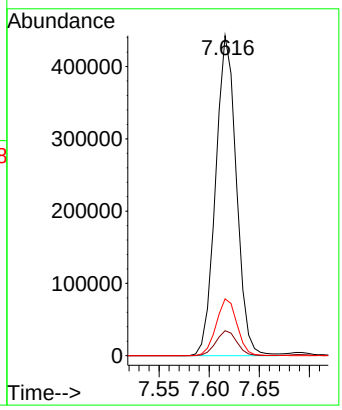


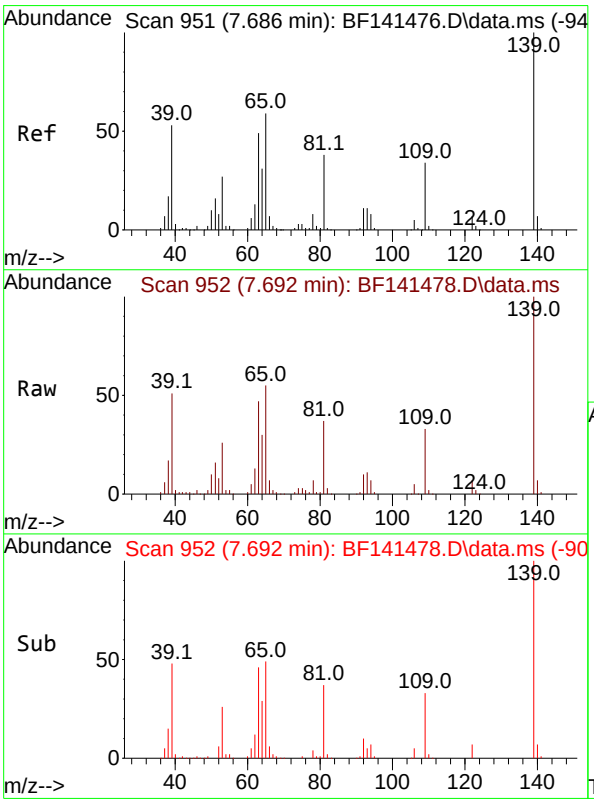
#25
Isophorone
Concen: 60.562 ng
RT: 7.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 638004

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	17.7	13.9	20.9

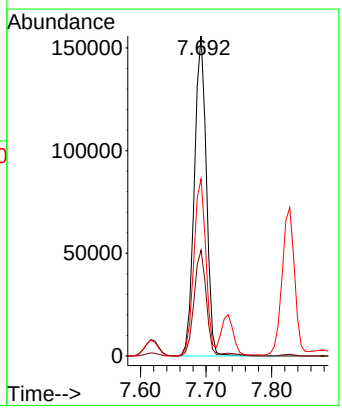


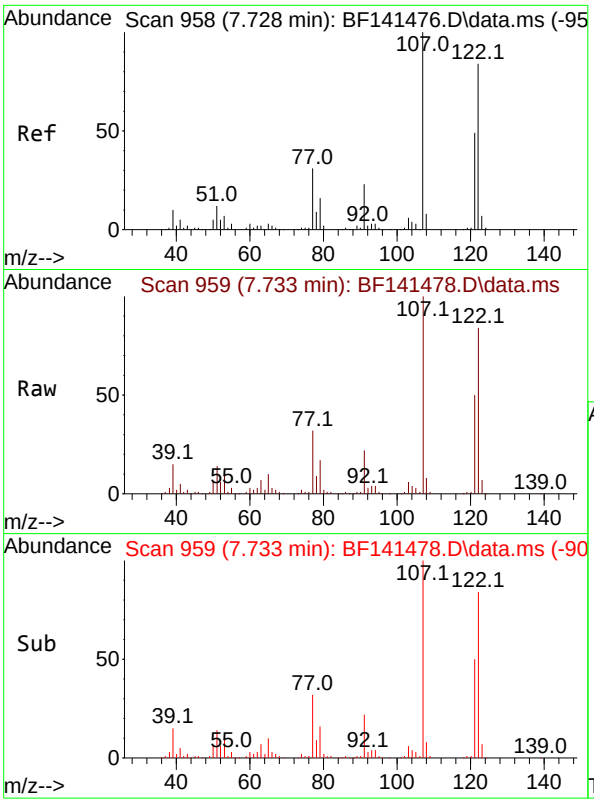


#26
2-Nitrophenol
Concen: 62.128 ng
RT: 7.692 min Scan# 952
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:139 Resp: 199140

Ion	Ratio	Lower	Upper
139	100		
109	33.1	27.0	40.6
65	55.3	47.1	70.7



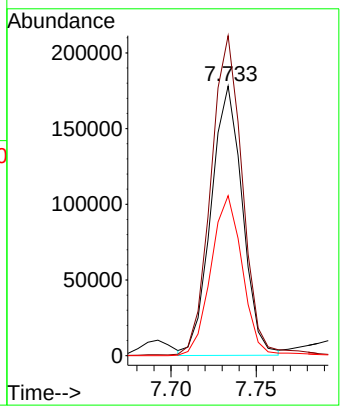


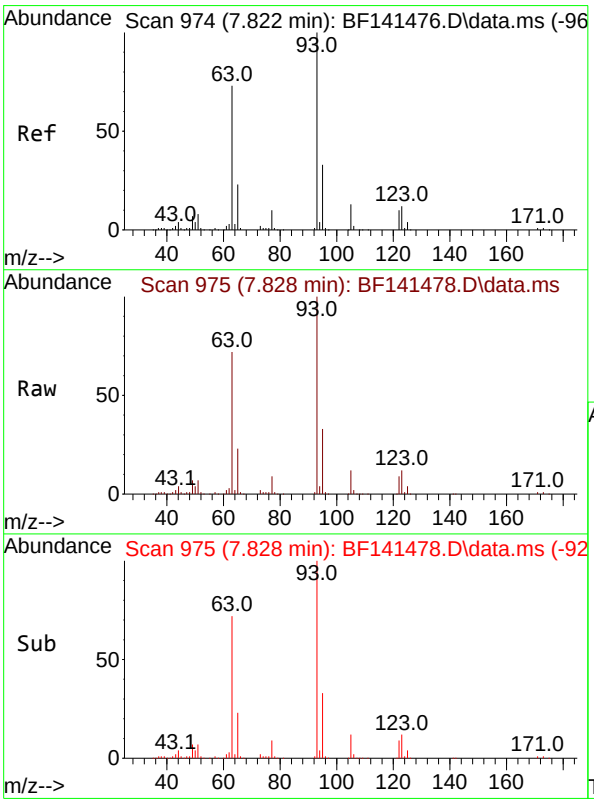
#27
2,4-Dimethylphenol
Concen: 60.836 ng
RT: 7.733 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 227803

Ion	Ratio	Lower	Upper
122	100		
107	118.7	94.3	141.5
121	59.4	46.0	69.0

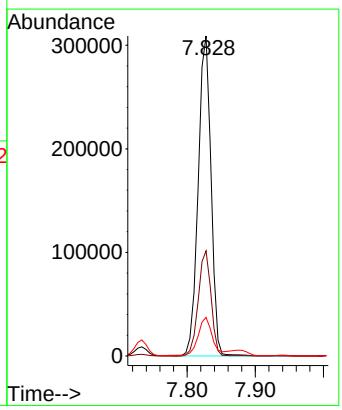


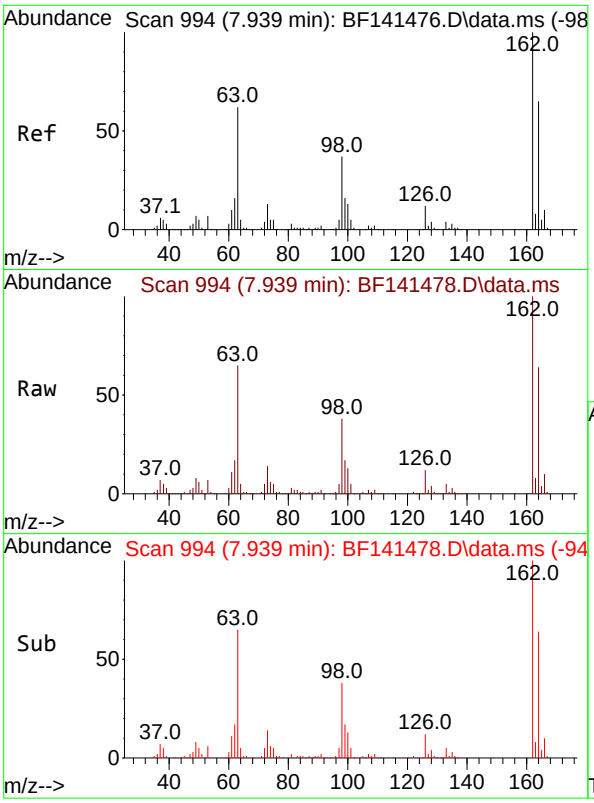


#28
bis(2-Chloroethoxy)methane
Concen: 59.877 ng
RT: 7.828 min Scan# 975
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 93 Resp: 404195

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.1	39.1
123	12.1	9.5	14.3



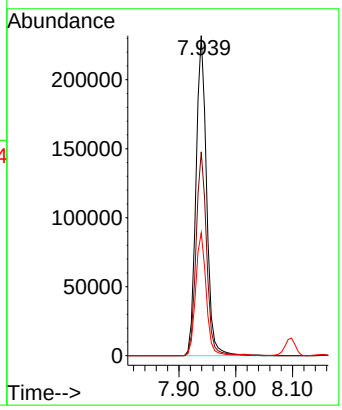


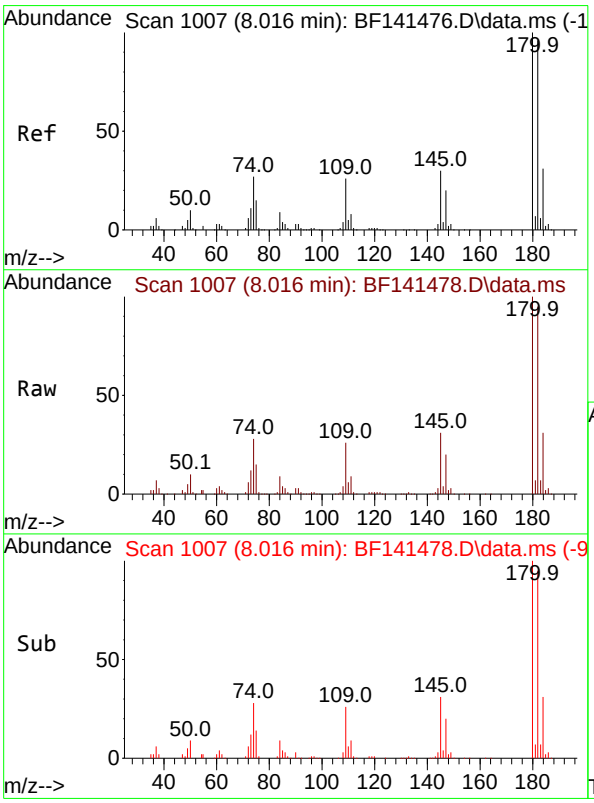
#29
2,4-Dichlorophenol
Concen: 59.683 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 301959

Ion	Ratio	Lower	Upper
162	100		
164	63.7	44.6	84.6
98	38.4	17.2	57.2

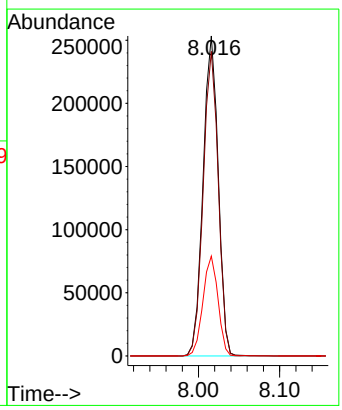


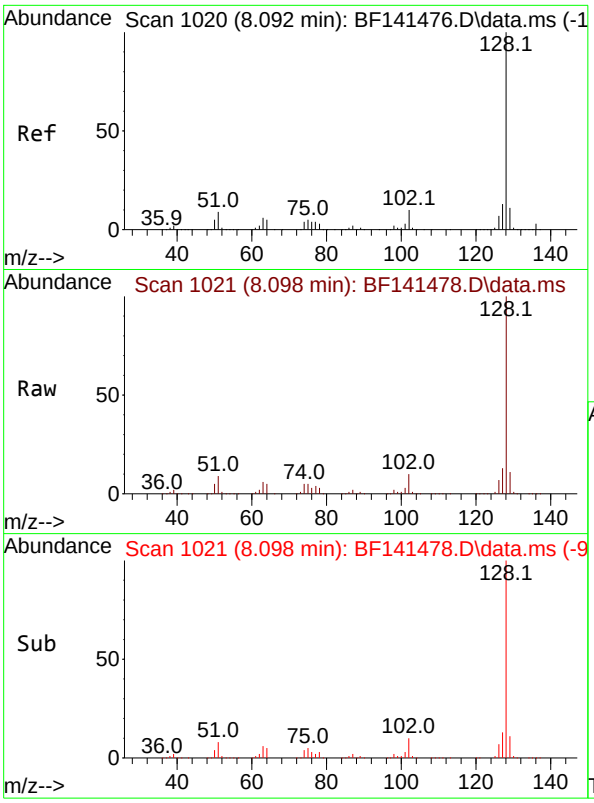


#30
1,2,4-Trichlorobenzene
Concen: 59.561 ng
RT: 8.016 min Scan# 1007
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:180 Resp: 328150

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.8	115.2
145	31.2	24.2	36.4



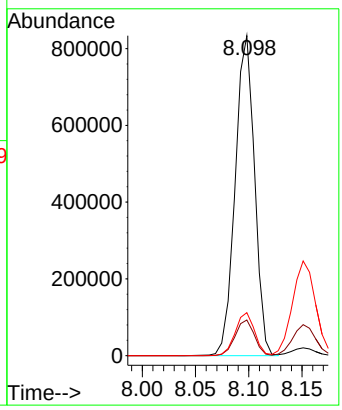


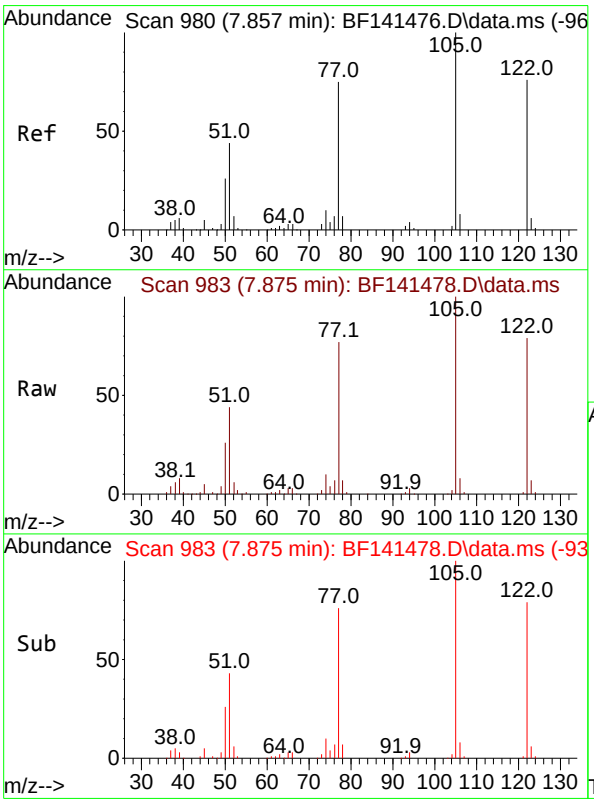
#31
Naphthalene
Concen: 58.889 ng
RT: 8.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 1056367

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.7	16.1

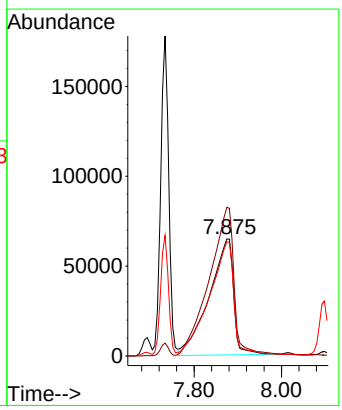


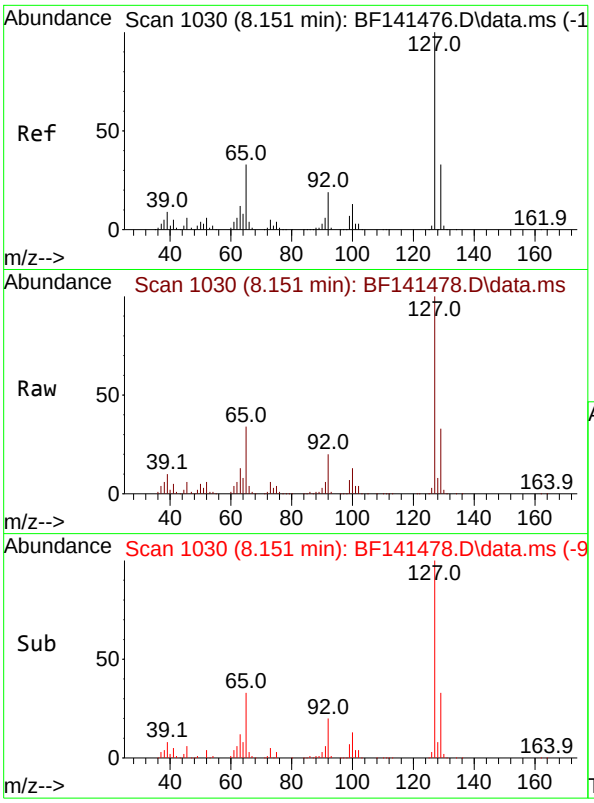


#32
Benzoic acid
Concen: 64.532 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.017 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:122 Resp: 250995

Ion	Ratio	Lower	Upper
122	100		
105	127.0	106.5	146.5
77	97.7	76.3	116.3



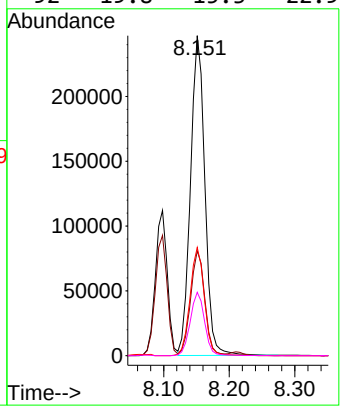


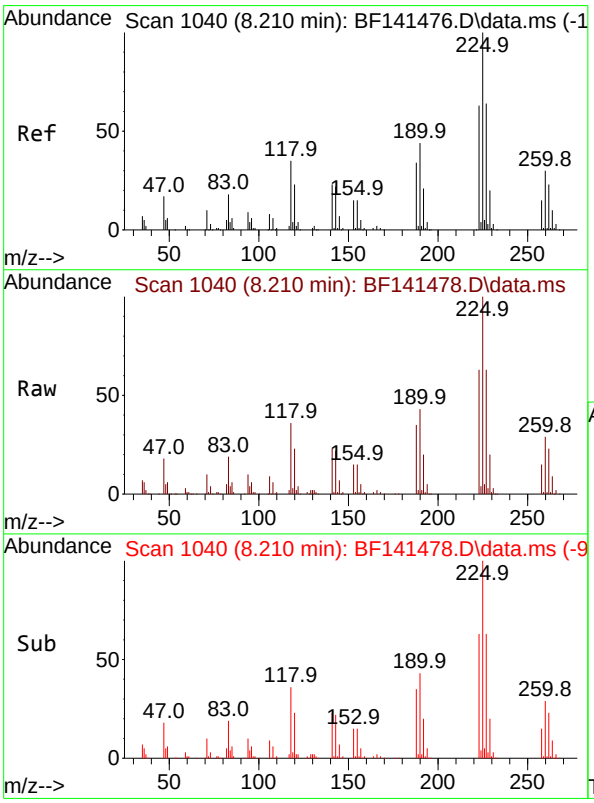
#33
4-Chloroaniline
Concen: 60.070 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 376211

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.5	39.7
65	33.8	26.4	39.6
92	19.8	15.3	22.9

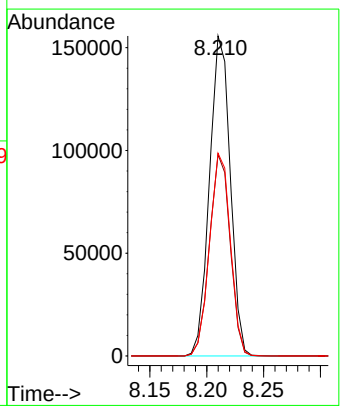


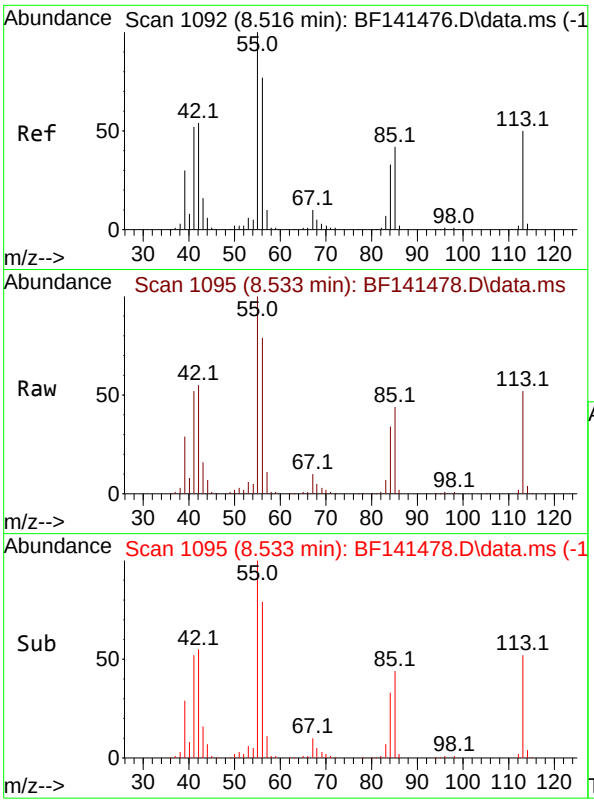


#34
Hexachlorobutadiene
Concen: 59.849 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:225 Resp: 197955

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.1	75.1
227	63.4	51.0	76.6



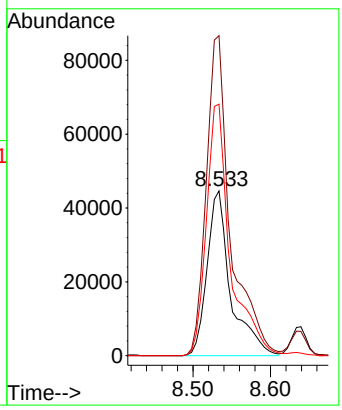


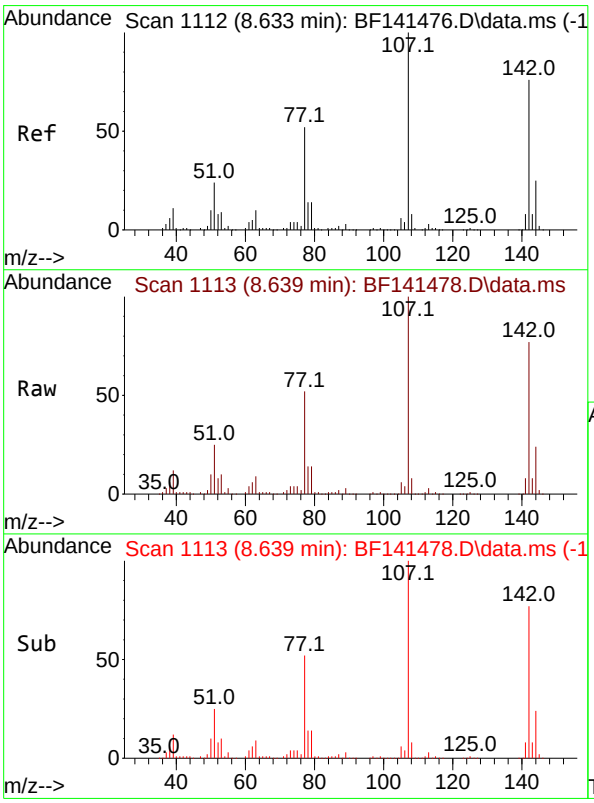
#35
Caprolactam
Concen: 61.291 ng
RT: 8.533 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 94415

Ion	Ratio	Lower	Upper
113	100		
55	194.1	180.8	220.8
56	152.5	133.6	173.6

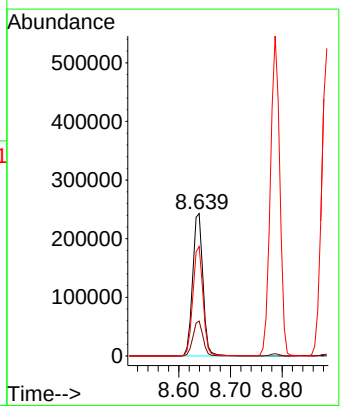


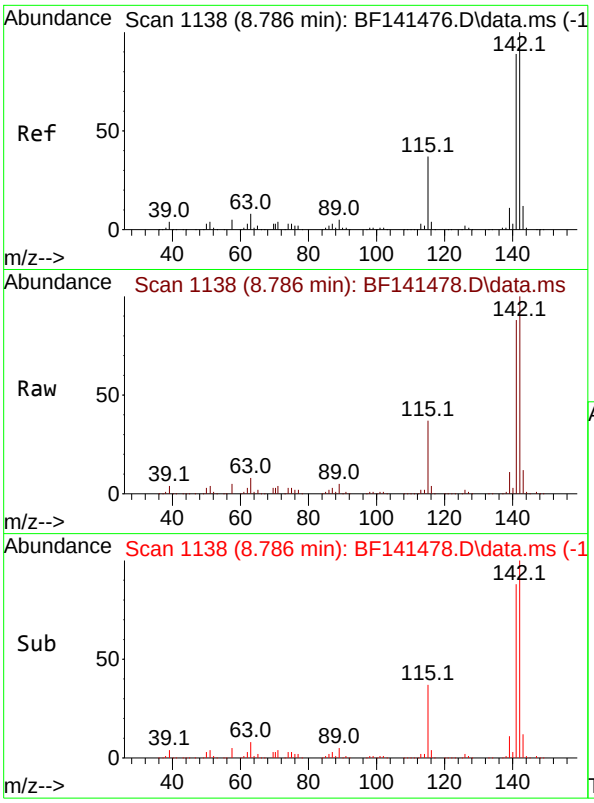


#36
4-Chloro-3-methylphenol
Concen: 59.935 ng
RT: 8.639 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:107 Resp: 335897

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.7	29.5
142	76.8	60.8	91.2



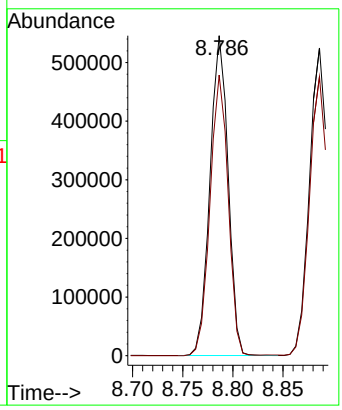


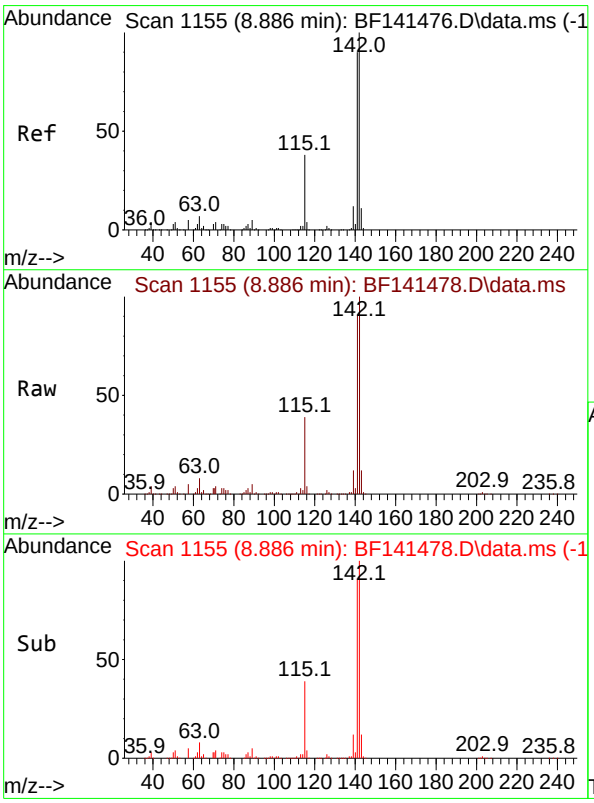
#37
2-Methylnaphthalene
Concen: 58.941 ng
RT: 8.786 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 688021

Ion	Ratio	Lower	Upper
142	100		
141	87.7	71.2	106.8

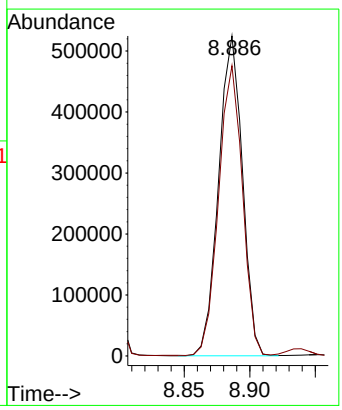


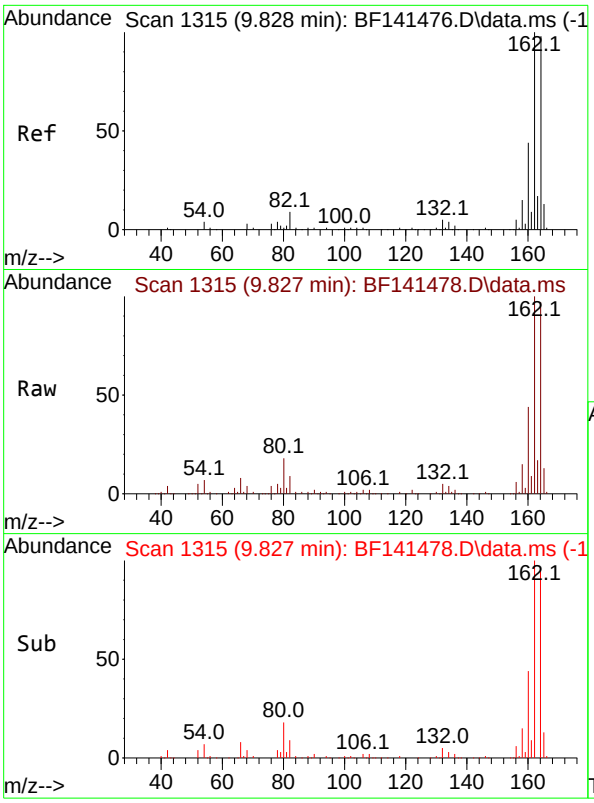


#38
1-Methylnaphthalene
Concen: 58.522 ng
RT: 8.886 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:142 Resp: 661628

Ion	Ratio	Lower	Upper
142	100		
141	90.7	72.1	108.1



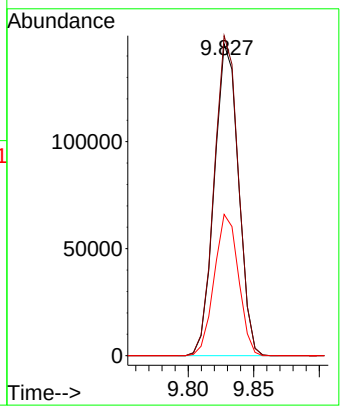


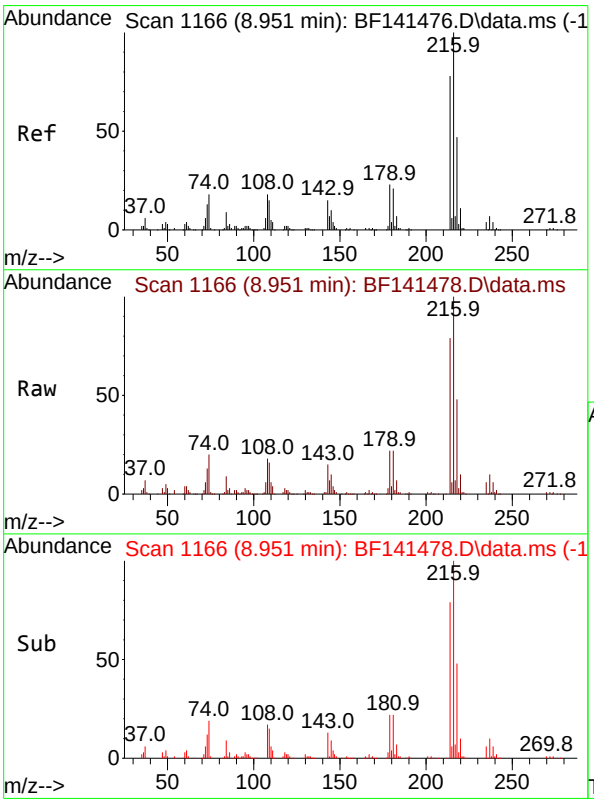
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.827 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 186729

Ion	Ratio	Lower	Upper
164	100		
162	102.6	81.3	121.9
160	45.3	35.9	53.9

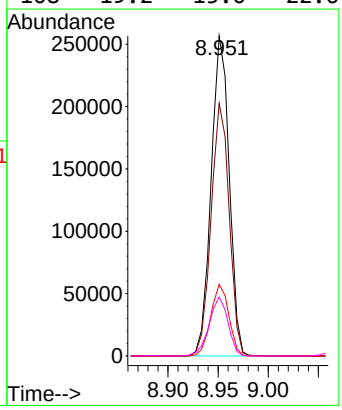


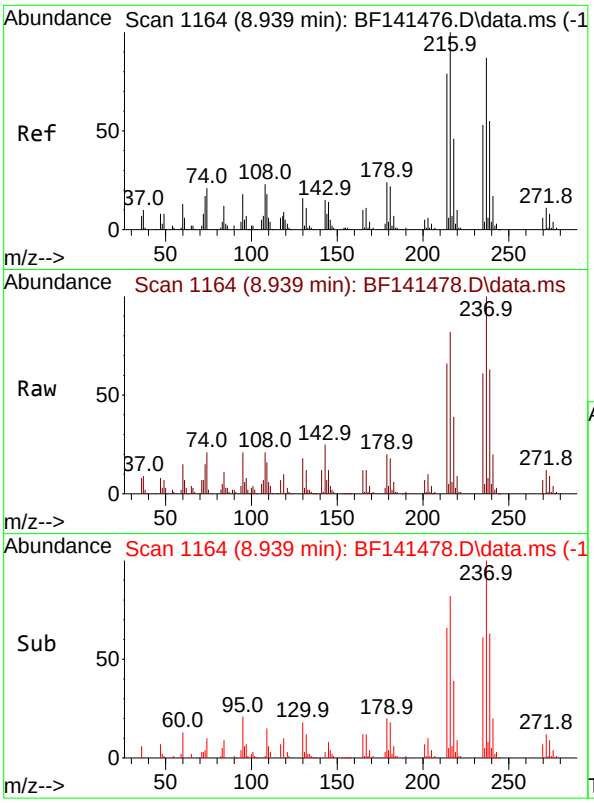


#40
1,2,4,5-Tetrachlorobenzene
Concen: 59.560 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:216 Resp: 321763

Ion	Ratio	Lower	Upper
216	100		
214	79.0	62.3	93.5
179	22.3	18.0	27.0
108	19.2	15.0	22.6



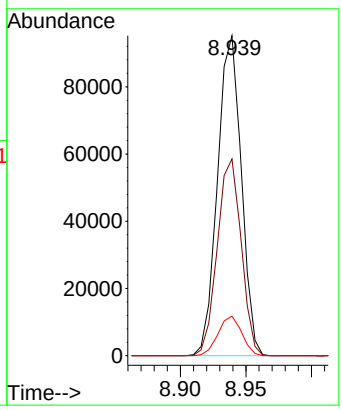


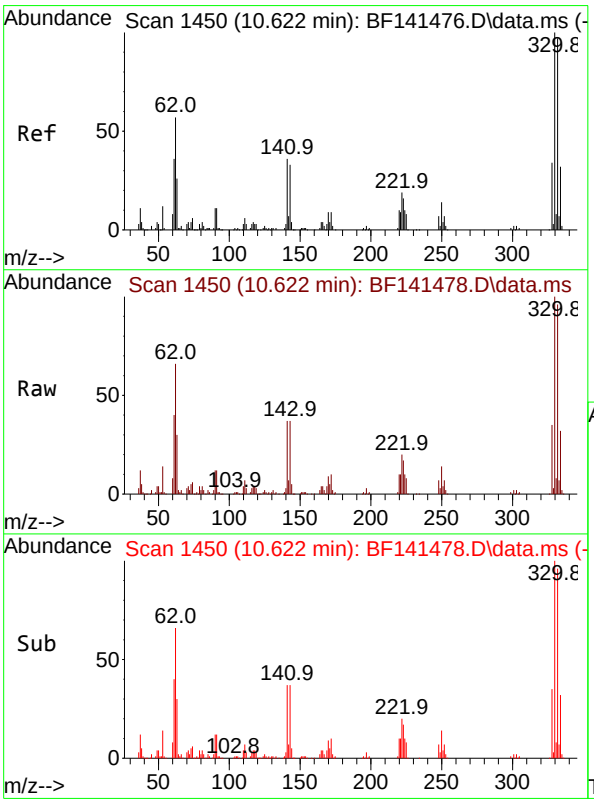
#41
Hexachlorocyclopentadiene
Concen: 66.819 ng
RT: 8.939 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 120063

Ion	Ratio	Lower	Upper
237	100		
235	61.5	41.4	81.4
272	12.4	0.0	32.4

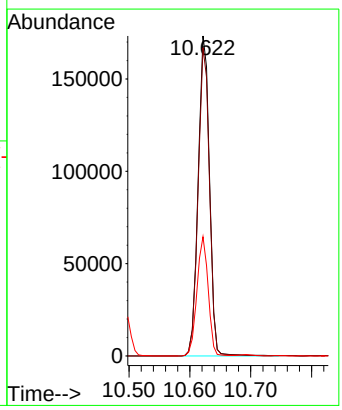


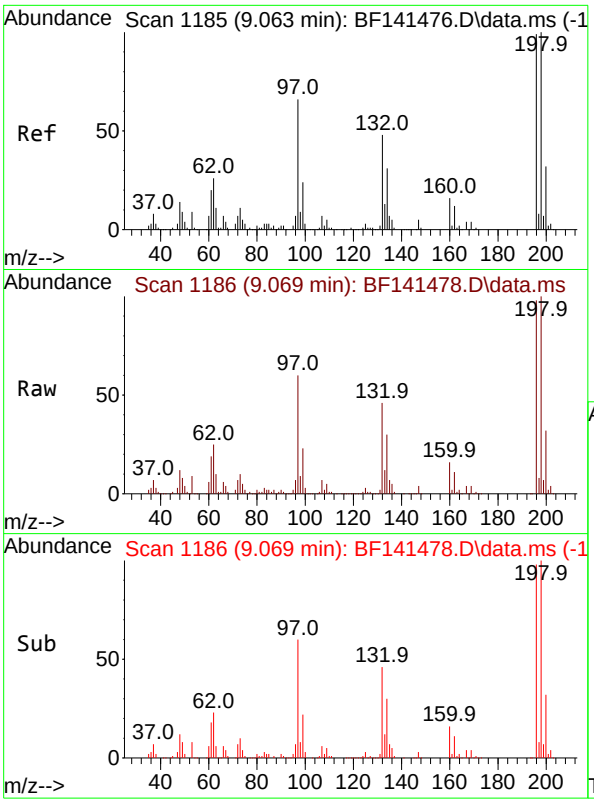


#42
2,4,6-Tribromophenol
Concen: 119.976 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.005 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:330 Resp: 225049

Ion	Ratio	Lower	Upper
330	100		
332	96.2	78.5	117.7
141	36.9	31.0	46.4



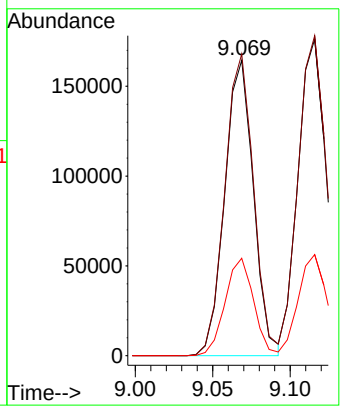


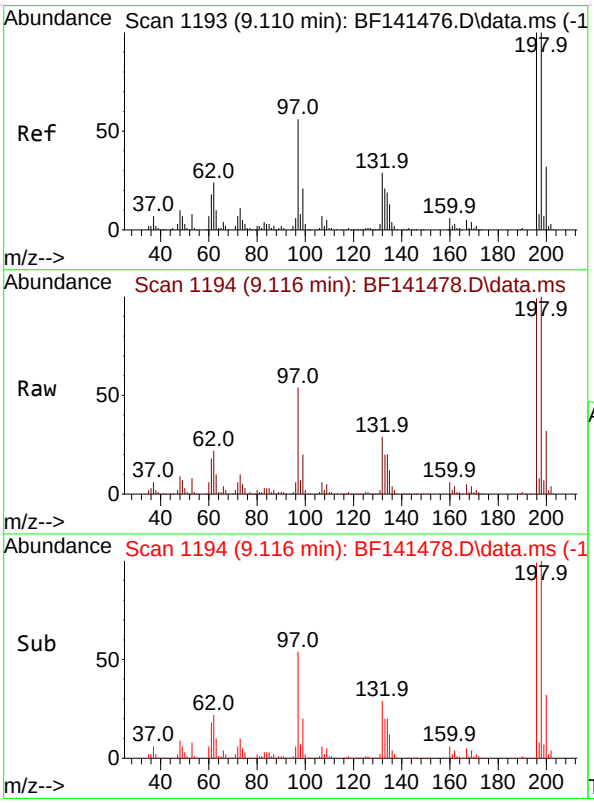
#43
2,4,6-Trichlorophenol
Concen: 60.632 ng
RT: 9.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 211702

Ion	Ratio	Lower	Upper
196	100		
198	102.2	80.6	121.0
200	33.0	25.5	38.3

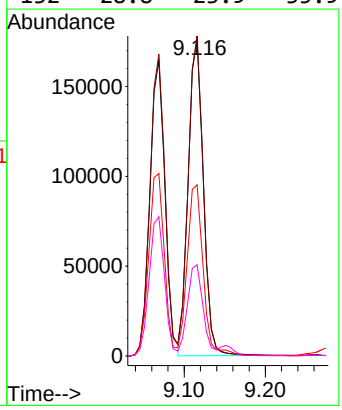


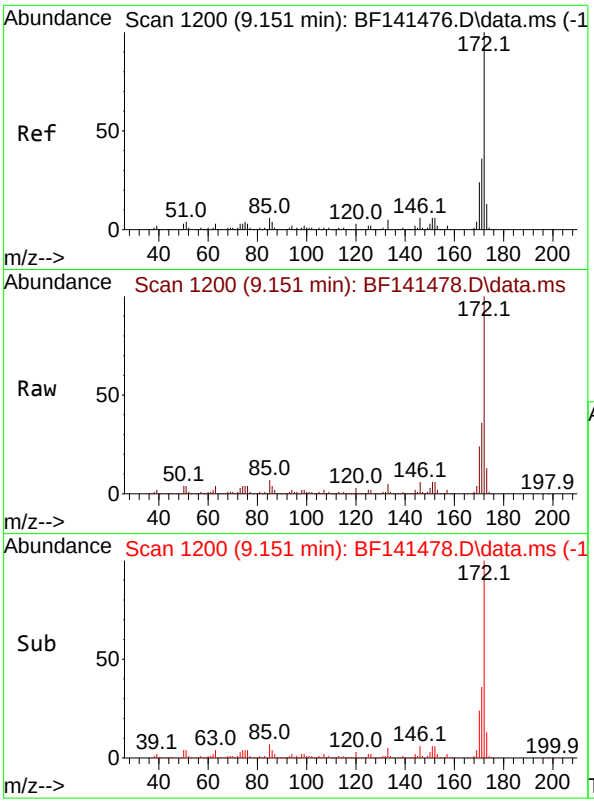


#44
2,4,5-Trichlorophenol
Concen: 60.519 ng
RT: 9.116 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:196 Resp: 229006

Ion	Ratio	Lower	Upper
196	100		
198	101.1	79.8	119.8
97	54.1	44.8	67.2
132	28.8	23.9	35.9



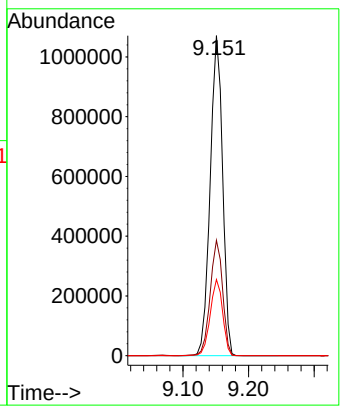


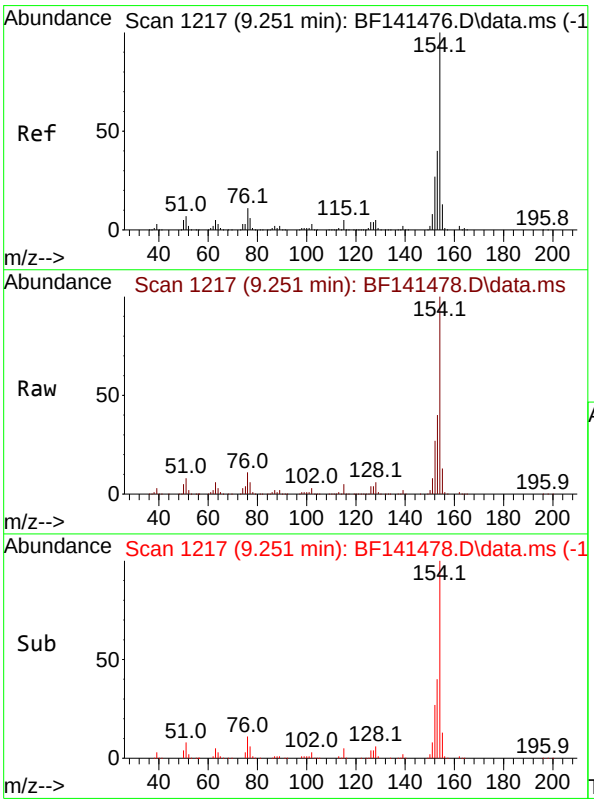
#45
2-Fluorobiphenyl
Concen: 116.358 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 1410277

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.7	43.1
170	23.8	18.9	28.3

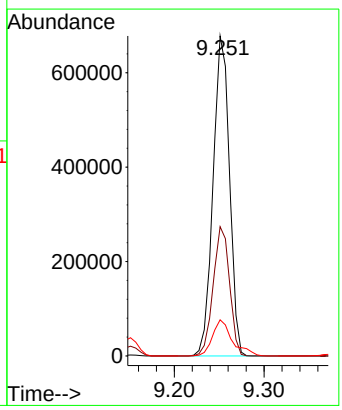


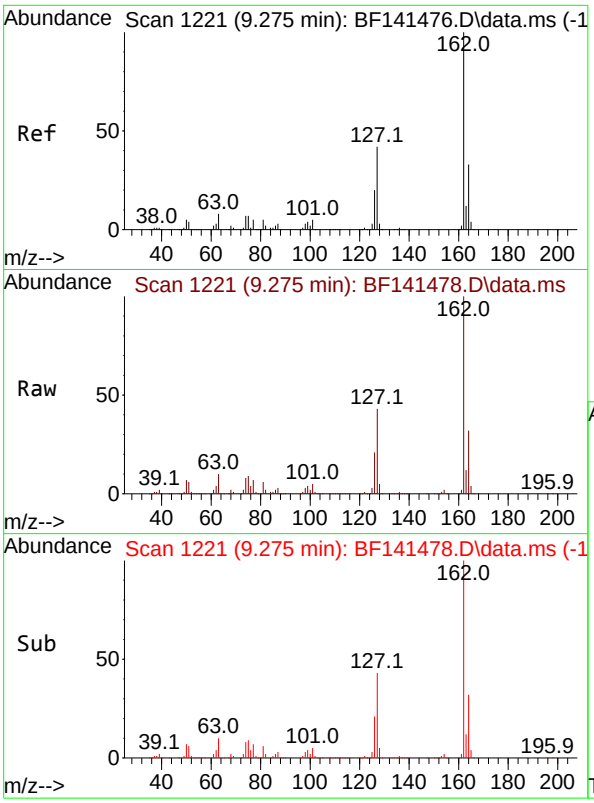


#46
1,1'-Biphenyl
Concen: 59.479 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:154 Resp: 861067

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	11.3	0.0	30.8



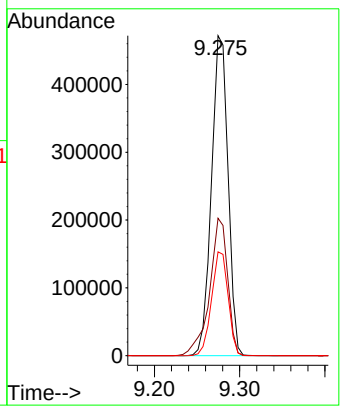


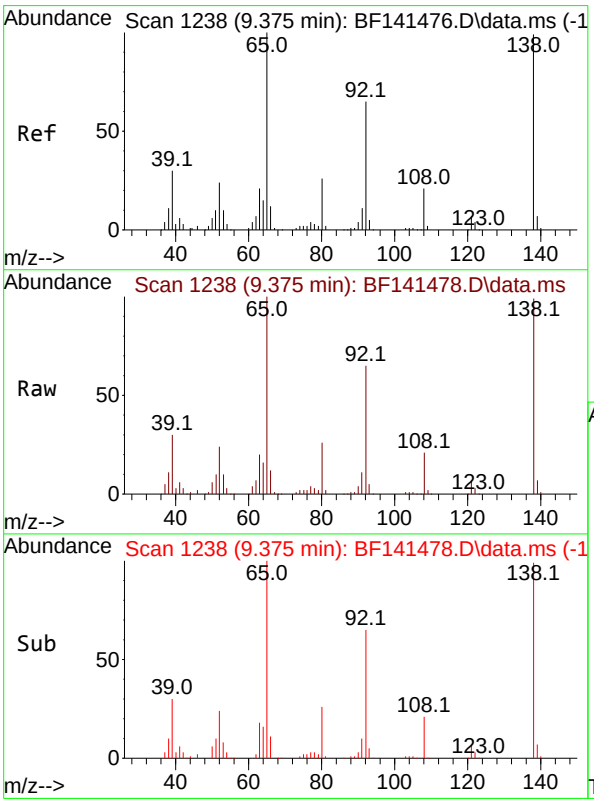
#47
2-Chloronaphthalene
Concen: 59.459 ng
RT: 9.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 636511

Ion	Ratio	Lower	Upper
162	100		
127	43.0	34.1	51.1
164	32.5	26.3	39.5

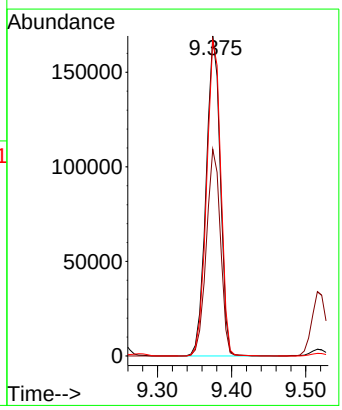


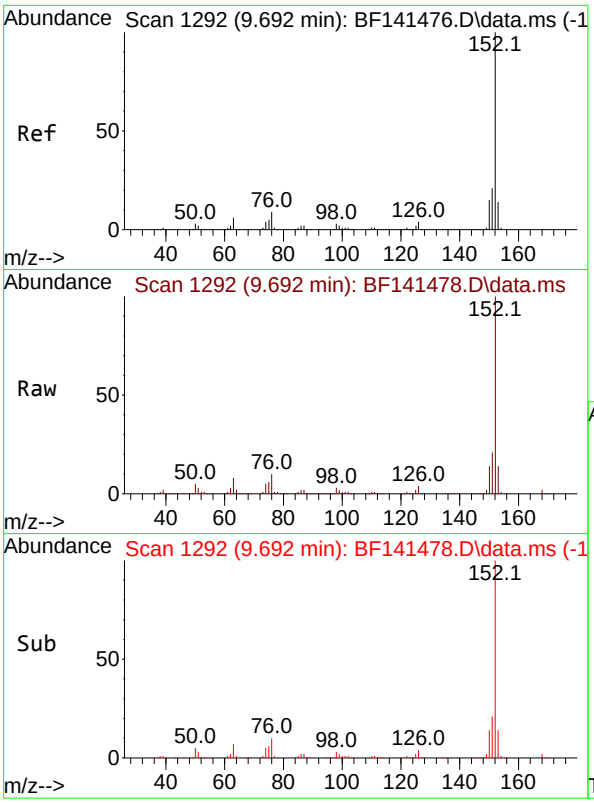


#48
2-Nitroaniline
Concen: 62.547 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 65 Resp: 224709

Ion	Ratio	Lower	Upper
65	100		
92	64.6	52.2	78.2
138	98.7	79.5	119.3



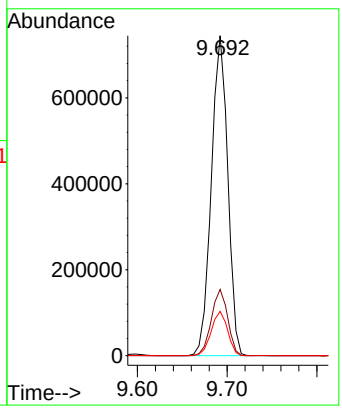


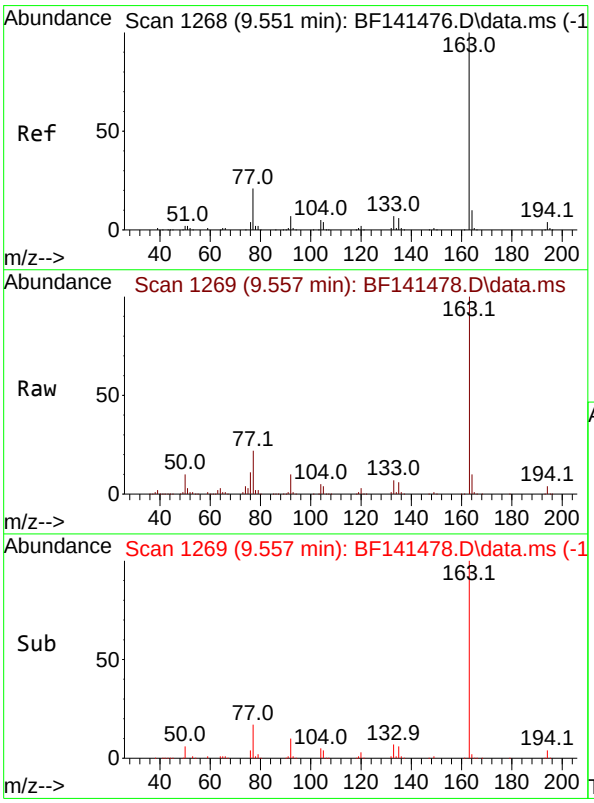
#49
Acenaphthylene
Concen: 59.436 ng
RT: 9.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 946382

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.4	24.6
153	13.8	10.9	16.3

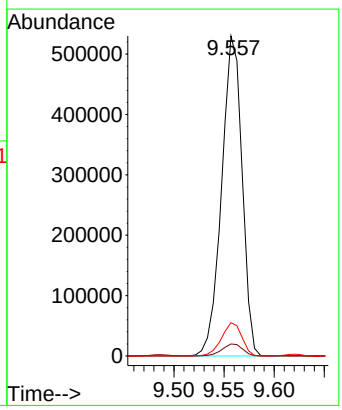


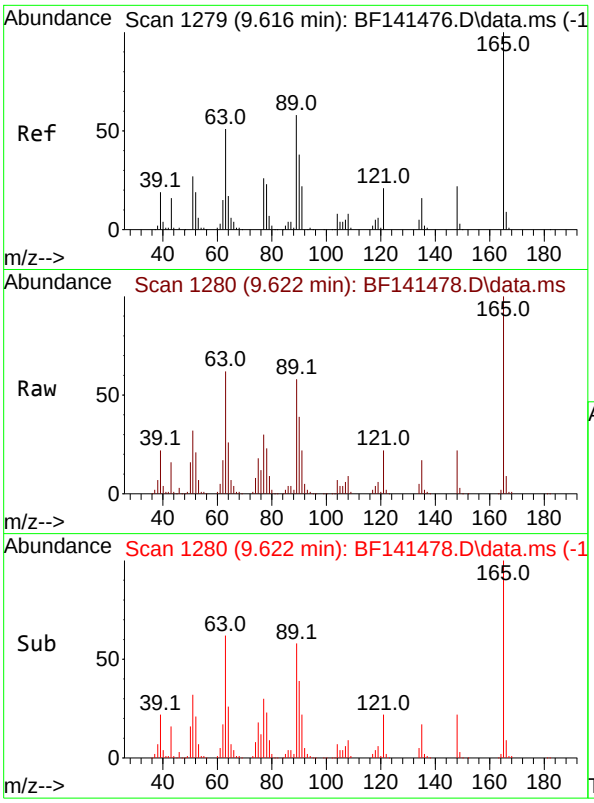


#50
Dimethylphthalate
Concen: 59.253 ng
RT: 9.557 min Scan# 1269
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:163 Resp: 751128

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.4	7.9	11.9



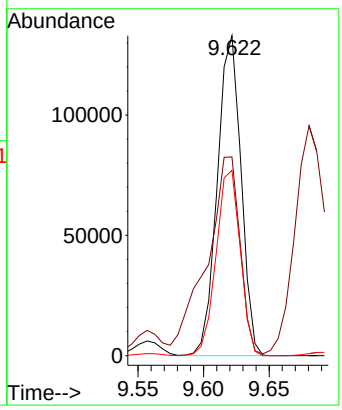


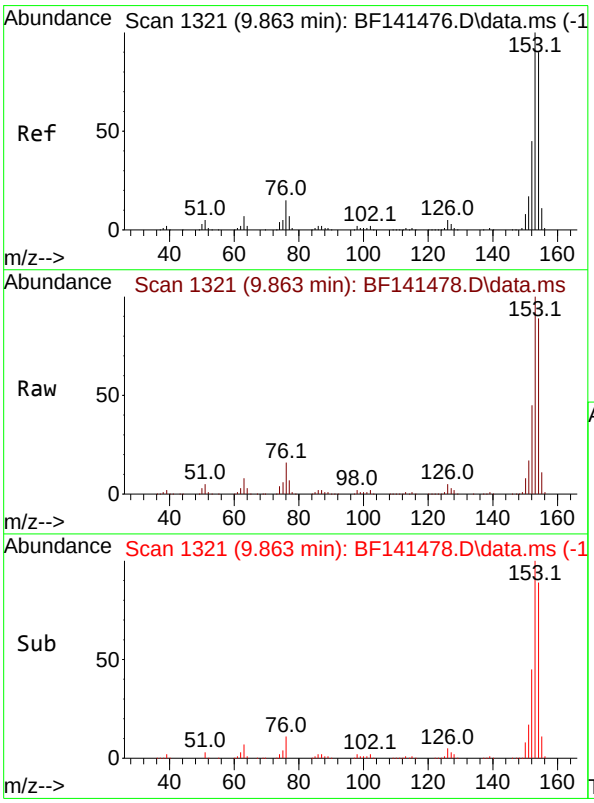
#51
2,6-Dinitrotoluene
Concen: 60.403 ng
RT: 9.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 167387

Ion	Ratio	Lower	Upper
165	100		
63	62.1	49.4	74.0
89	58.0	46.5	69.7

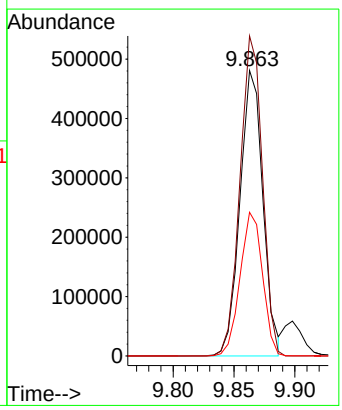


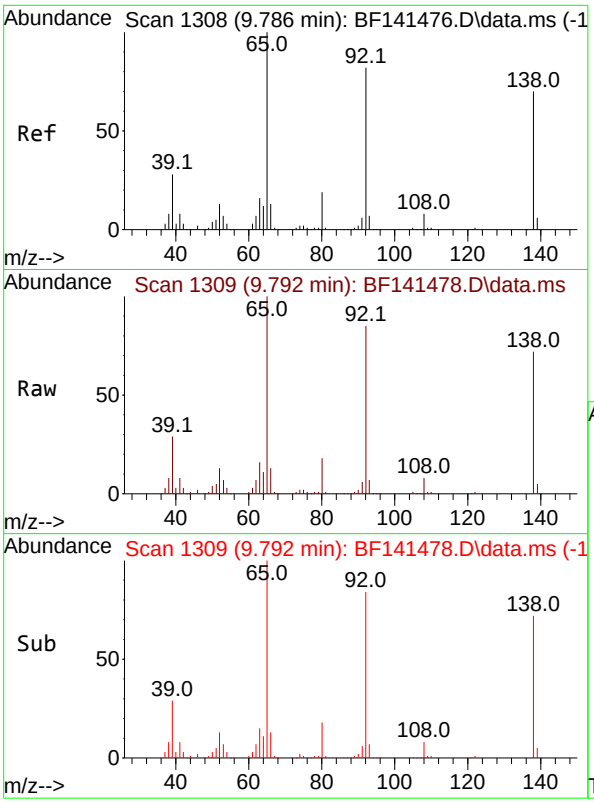


#52
Acenaphthene
Concen: 58.974 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:154 Resp: 631289

Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.2	133.8
152	50.3	39.8	59.8



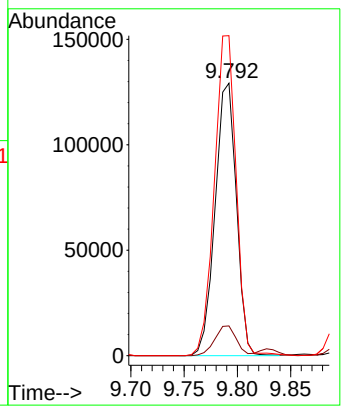


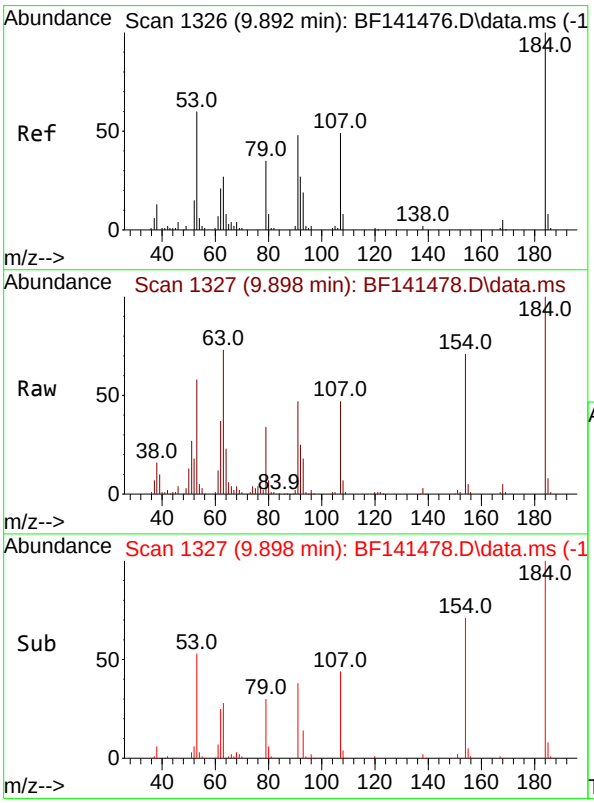
#53
3-Nitroaniline
Concen: 60.237 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 179664

Ion	Ratio	Lower	Upper
138	100		
108	10.9	9.0	13.4
92	117.5	93.7	140.5

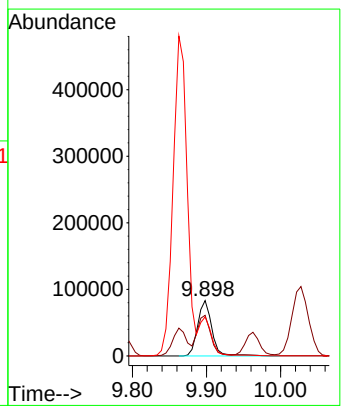


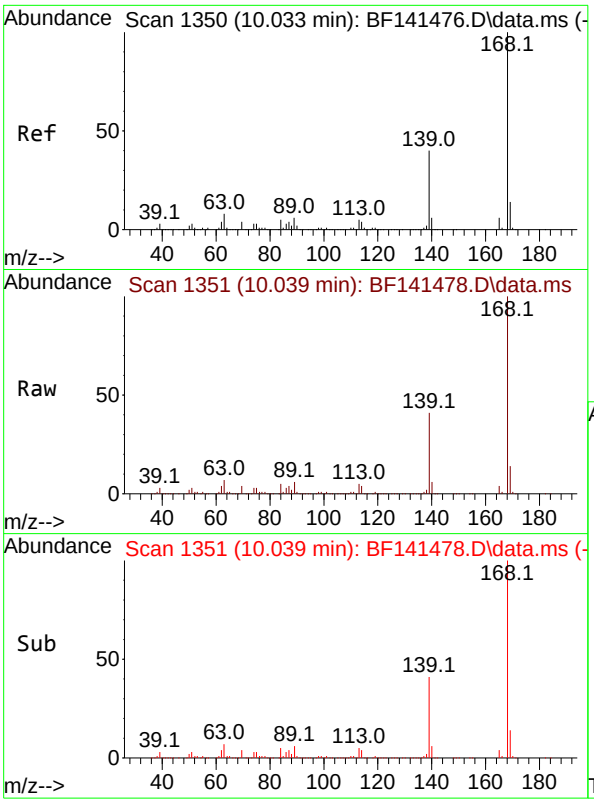


#54
2,4-Dinitrophenol
Concen: 67.432 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:184 Resp: 111060

Ion	Ratio	Lower	Upper
184	100		
63	73.3	61.0	91.6
154	70.6	59.9	89.9



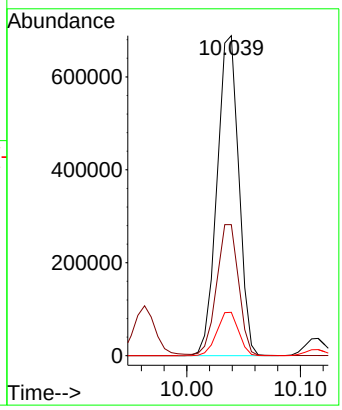


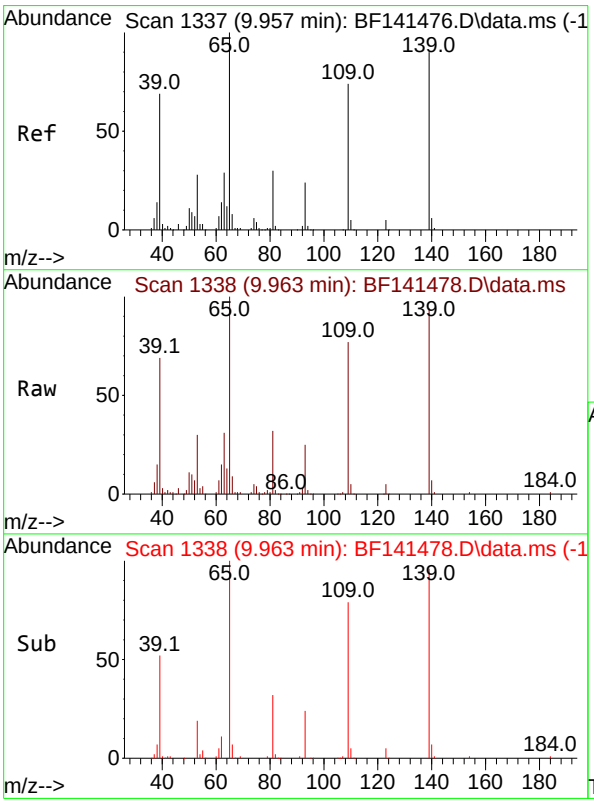
#55
Dibenzofuran
Concen: 58.242 ng
RT: 10.039 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 915117

Ion	Ratio	Lower	Upper
168	100		
139	41.0	32.7	49.1
169	13.5	10.8	16.2

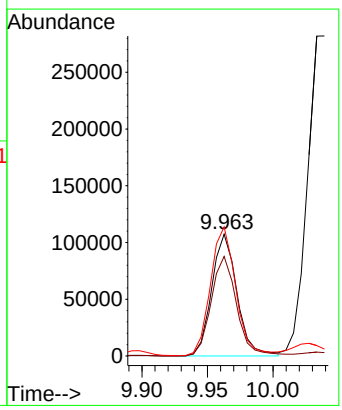


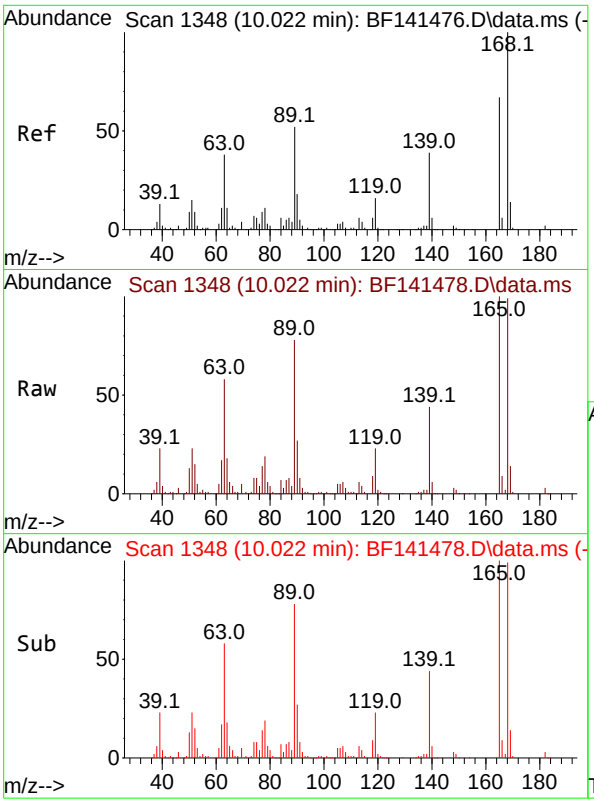


#56
4-Nitrophenol
Concen: 65.035 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:139 Resp: 143994

Ion	Ratio	Lower	Upper
139	100		
109	81.7	62.0	102.0
65	106.0	91.2	131.2



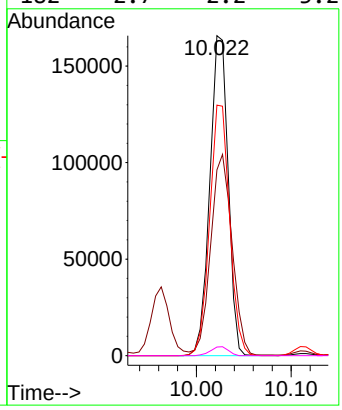


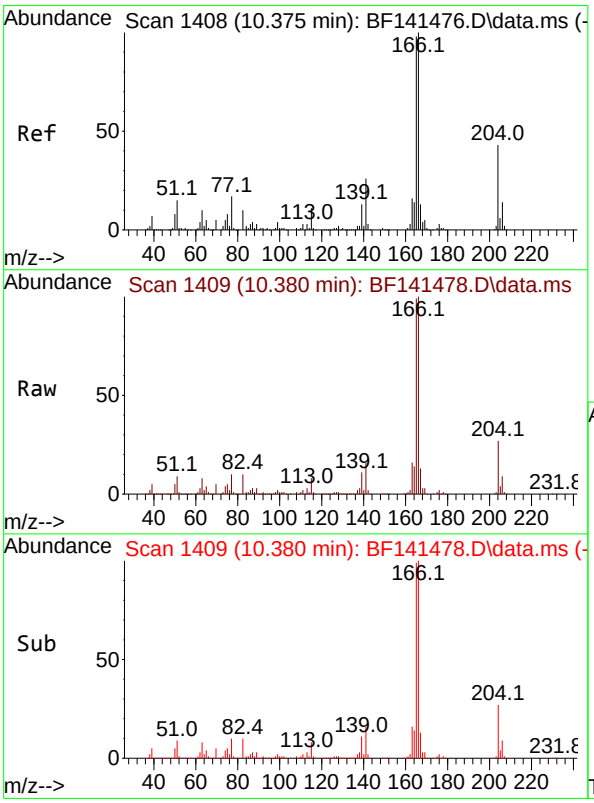
#57
2,4-Dinitrotoluene
Concen: 60.202 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 222091

Ion	Ratio	Lower	Upper
165	100		
63	58.1	46.4	69.6
89	78.3	61.8	92.6
182	2.7	2.2	3.2

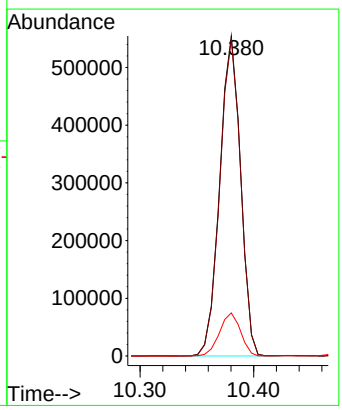


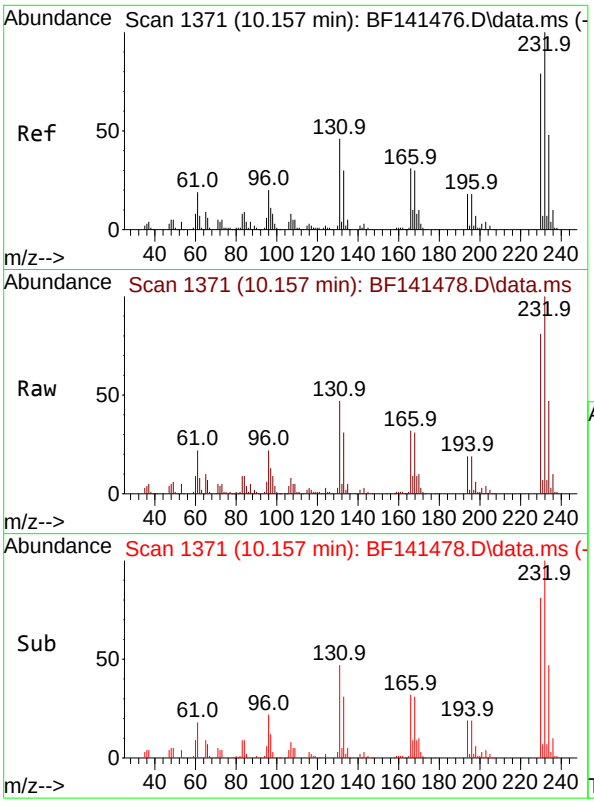


#58
Fluorene
Concen: 58.225 ng
RT: 10.380 min Scan# 1409
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:166 Resp: 707371

Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.2	117.2
167	13.5	10.7	16.1



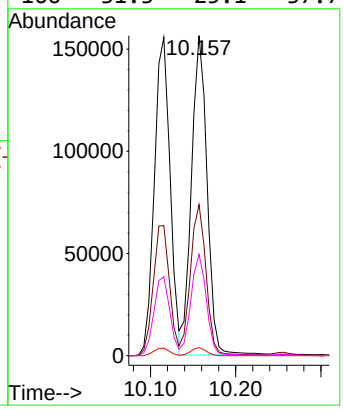


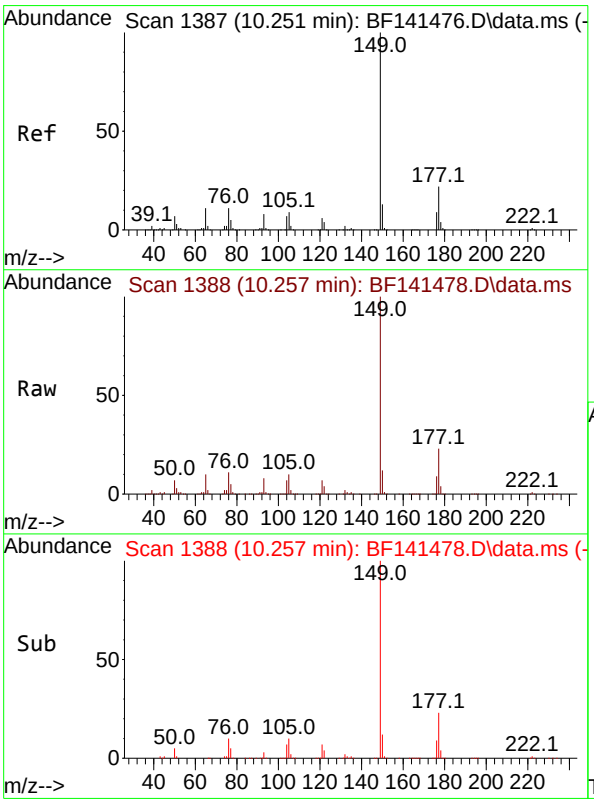
#59
2,3,4,6-Tetrachlorophenol
Concen: 60.972 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 198636

Ion	Ratio	Lower	Upper
232	100		
131	47.8	39.2	58.8
130	2.5	2.1	3.1
166	31.3	25.1	37.7

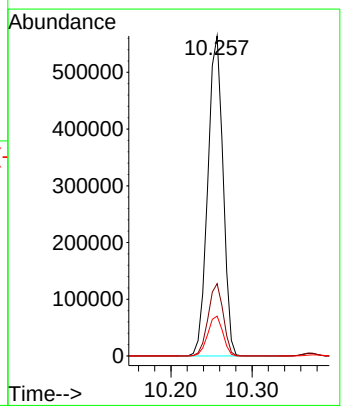


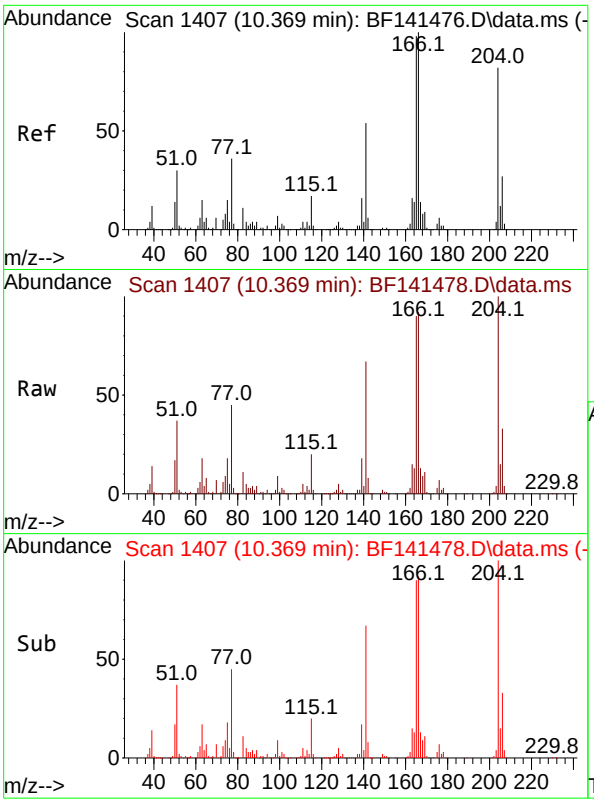


#60
Diethylphthalate
Concen: 58.755 ng
RT: 10.257 min Scan# 1388
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:149 Resp: 732804

Ion	Ratio	Lower	Upper
149	100		
177	22.6	17.8	26.6
150	12.5	10.1	15.1



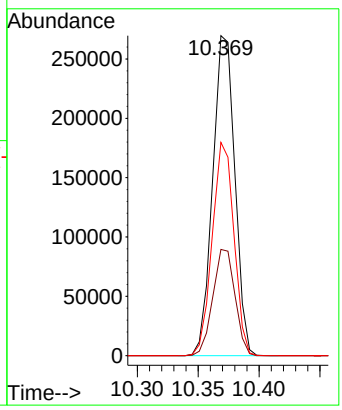


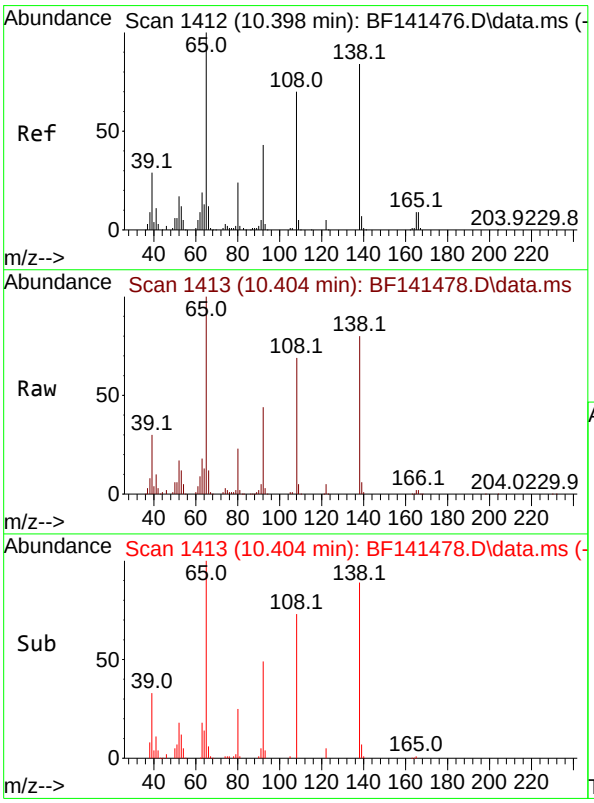
#61
4-Chlorophenyl-phenylether
Concen: 58.570 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 342324

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.6	40.0
141	66.7	51.9	77.9

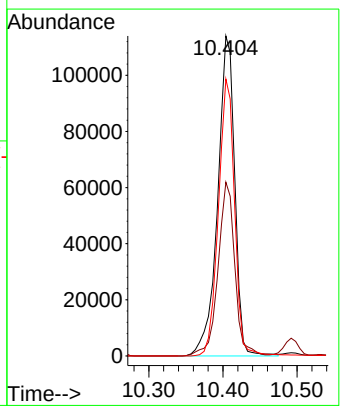


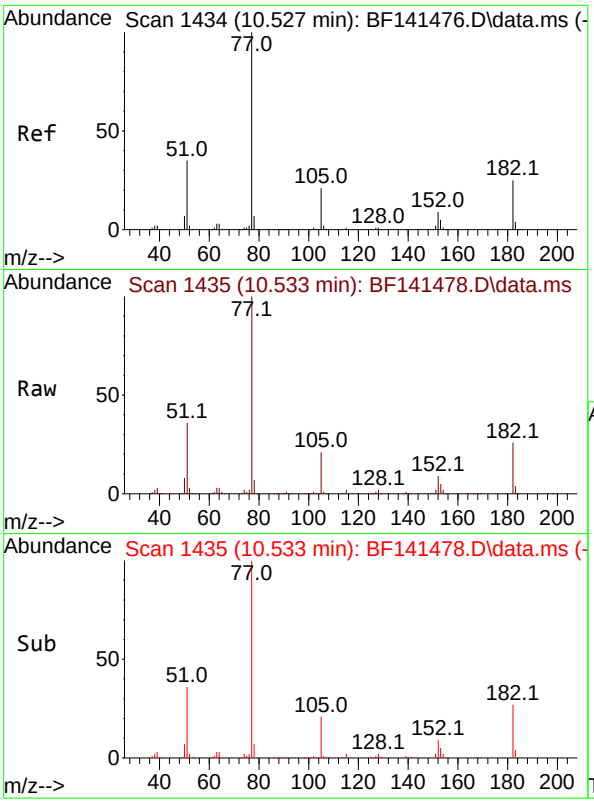


#62
4-Nitroaniline
Concen: 60.406 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:138 Resp: 182946

Ion	Ratio	Lower	Upper
138	100		
92	54.3	31.3	71.3
108	86.6	63.7	103.7



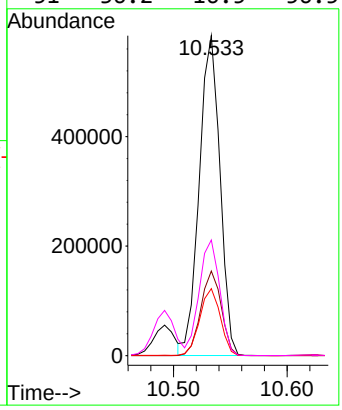


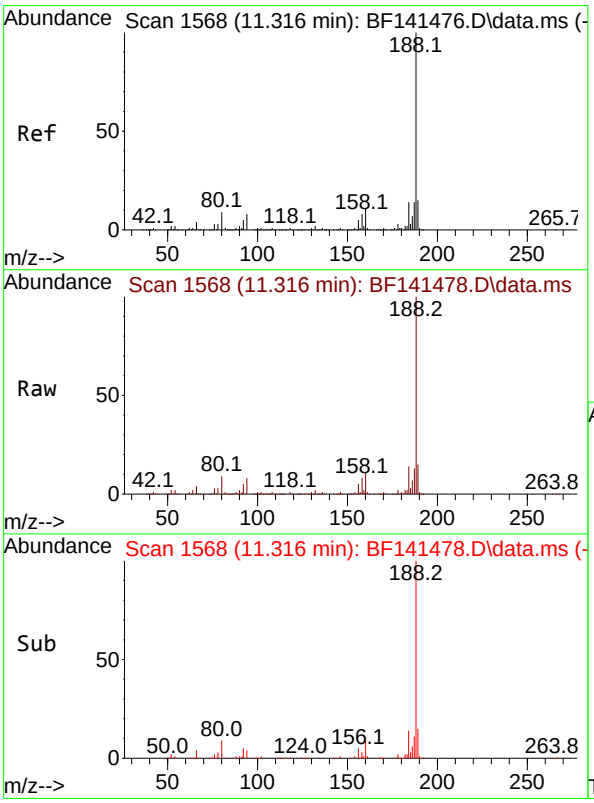
#63
Azobenzene
Concen: 59.629 ng
RT: 10.533 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 739338

Ion	Ratio	Lower	Upper
77	100		
182	26.5	4.7	44.7
105	21.0	0.4	40.4
51	36.2	16.5	56.5

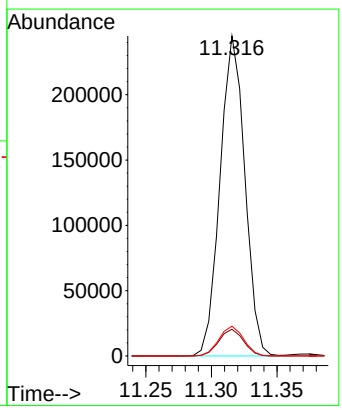


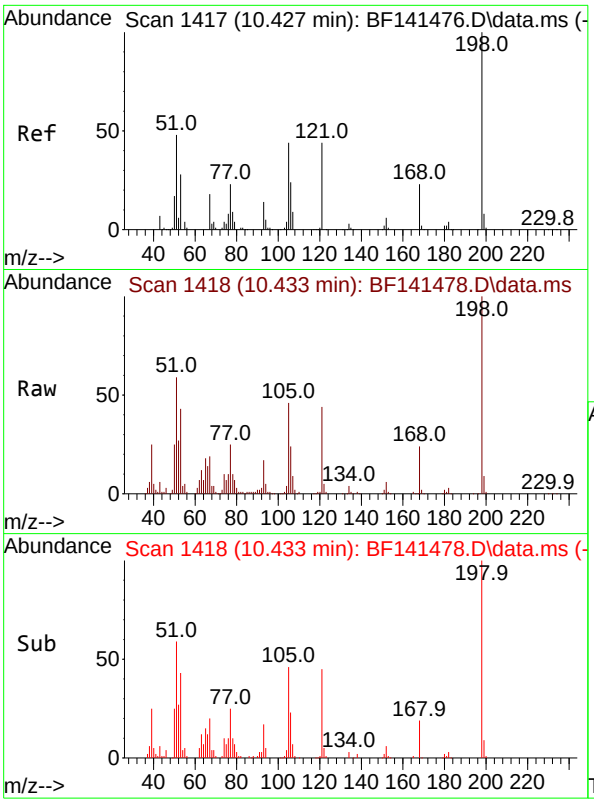


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:188 Resp: 321893

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	9.3	7.3	10.9



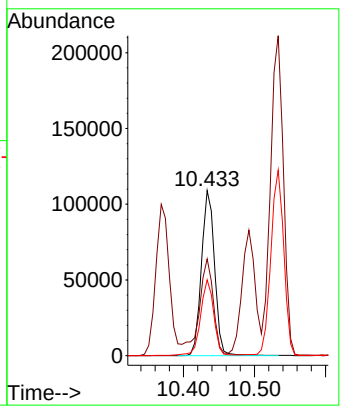


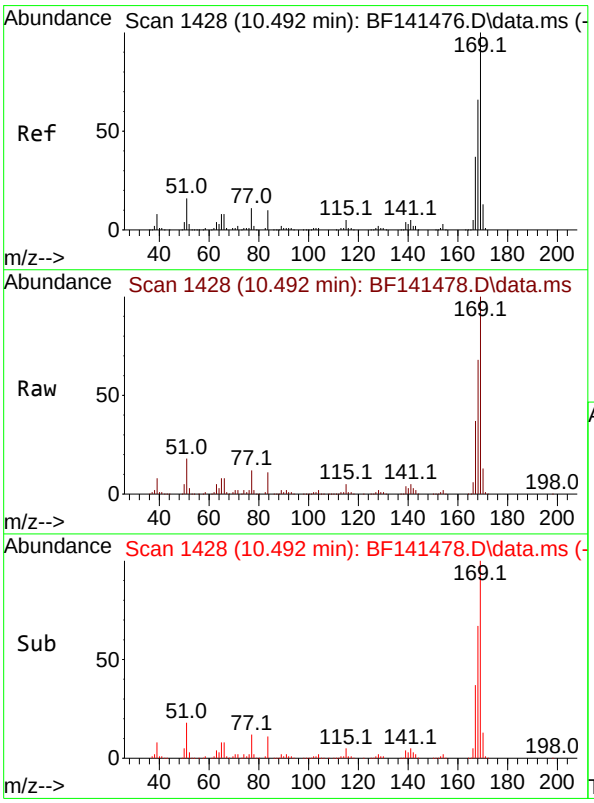
#65
4,6-Dinitro-2-methylphenol
Concen: 62.884 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 140610

Ion	Ratio	Lower	Upper
198	100		
51	58.6	37.4	77.4
105	46.0	25.2	65.2

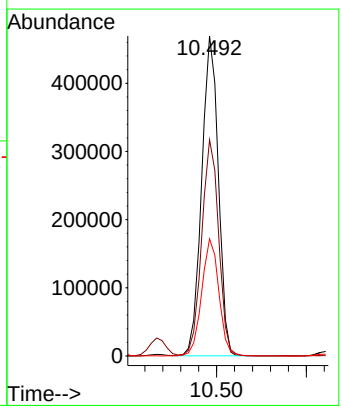


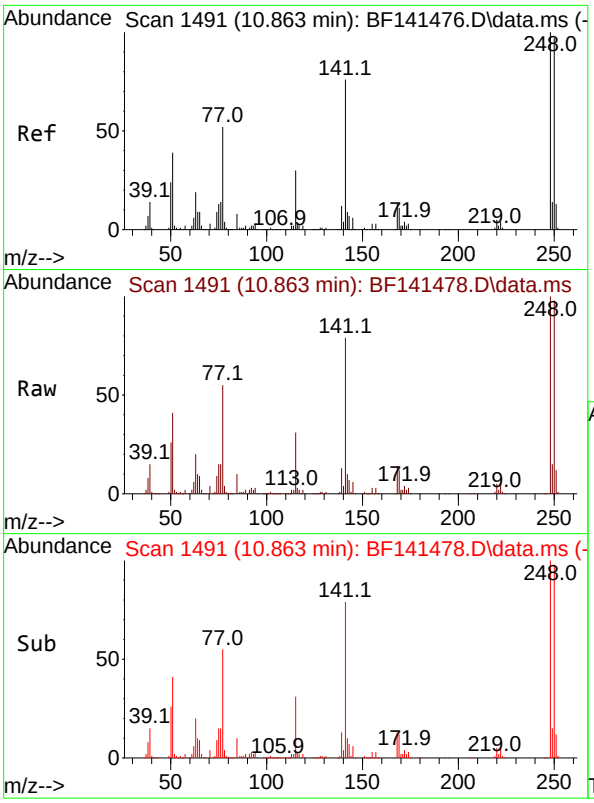


#66
n-Nitrosodiphenylamine
Concen: 58.609 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:169 Resp: 603914

Ion	Ratio	Lower	Upper
169	100		
168	67.6	53.3	79.9
167	36.6	29.4	44.2



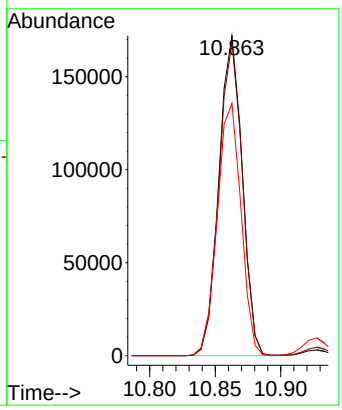


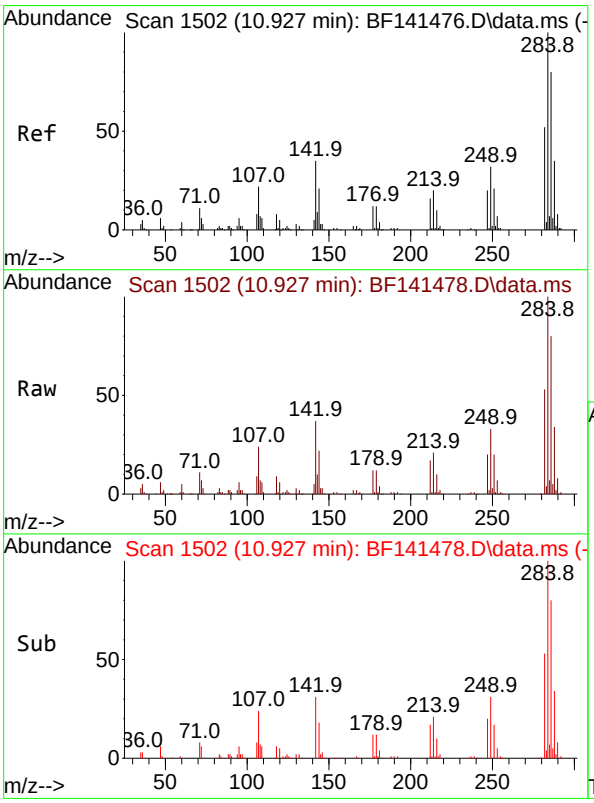
#67
4-Bromophenyl-phenylether
Concen: 59.314 ng
RT: 10.863 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 213385

Ion	Ratio	Lower	Upper
248	100		
250	97.9	77.8	116.6
141	78.9	60.6	90.8

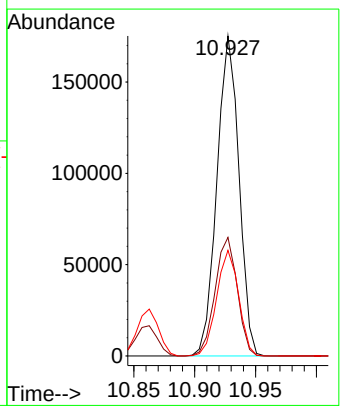


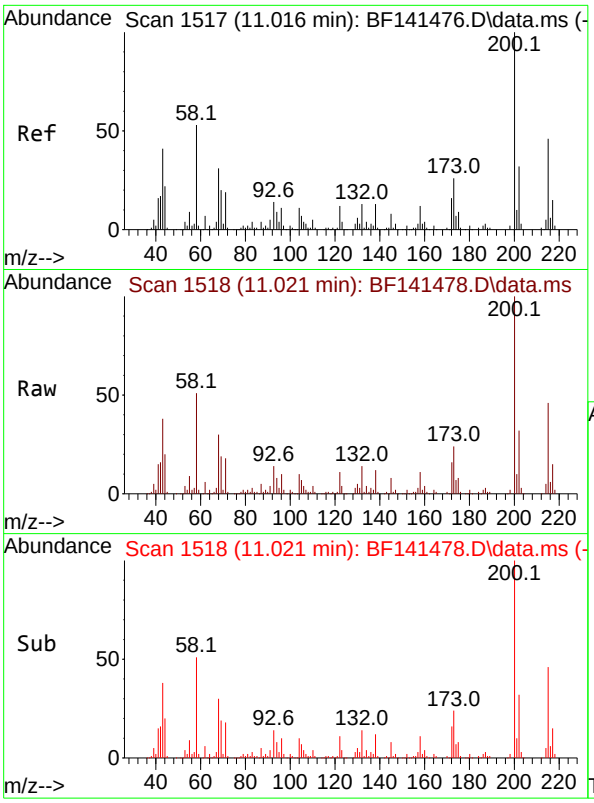


#68
Hexachlorobenzene
Concen: 59.552 ng
RT: 10.927 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:284 Resp: 220611

Ion	Ratio	Lower	Upper
284	100		
142	37.0	28.0	42.0
249	33.0	25.8	38.8



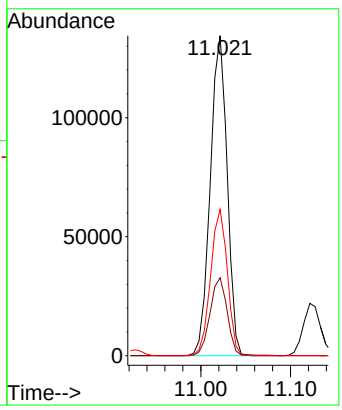


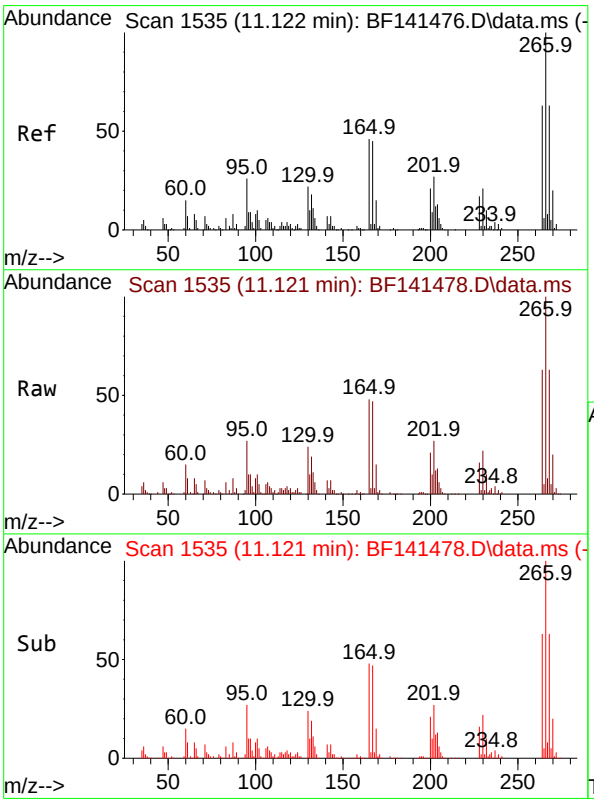
#69
Atrazine
Concen: 56.878 ng
RT: 11.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 175824

Ion	Ratio	Lower	Upper
200	100		
173	24.4	5.9	45.9
215	45.7	25.9	65.9

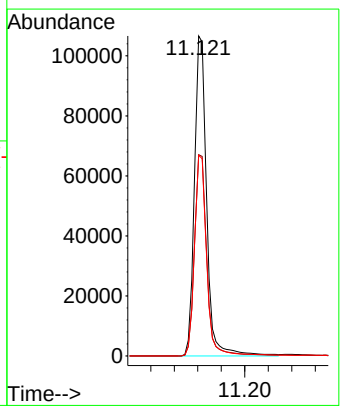


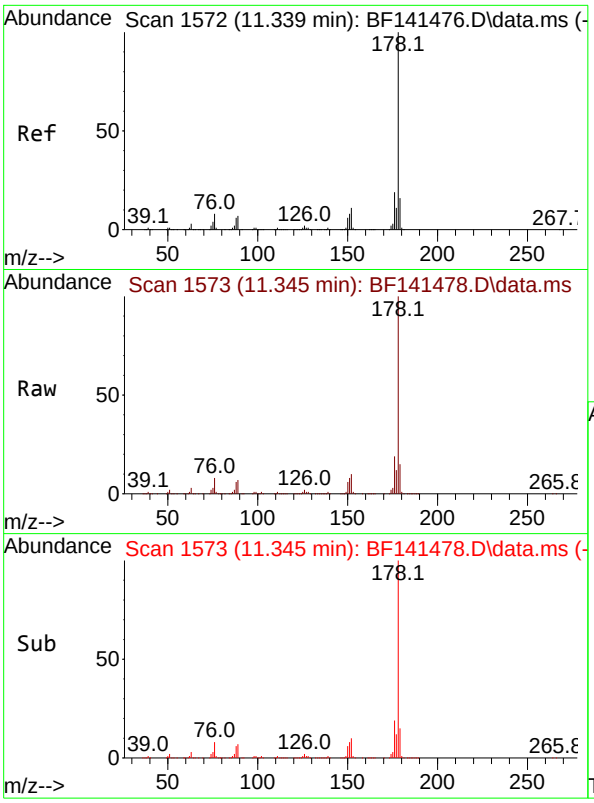


#70
Pentachlorophenol
Concen: 65.001 ng
RT: 11.121 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:266 Resp: 153971

Ion	Ratio	Lower	Upper
266	100		
268	62.9	50.1	75.1
264	62.7	50.1	75.1



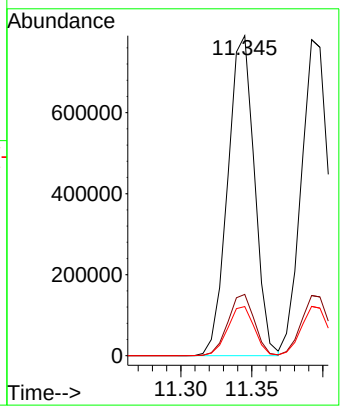


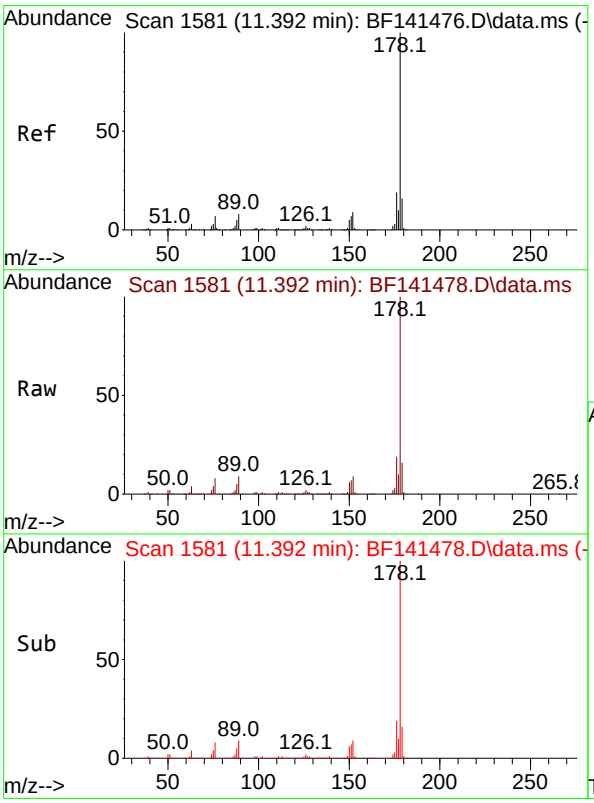
#71
Phenanthrene
Concen: 58.248 ng
RT: 11.345 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 1032075

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.4	12.4	18.6

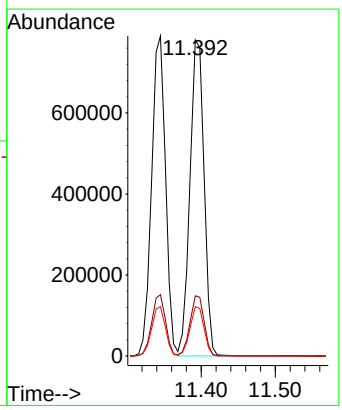


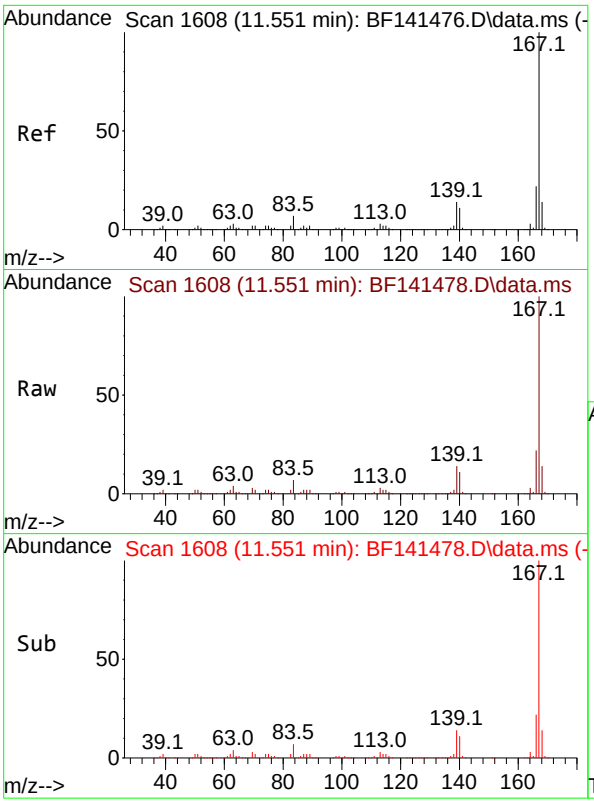


#72
Anthracene
Concen: 58.062 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:178 Resp: 1034181

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.8	22.2
179	15.6	12.4	18.6



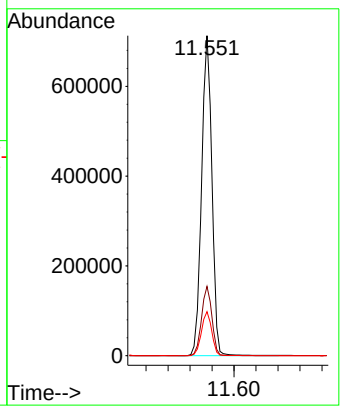


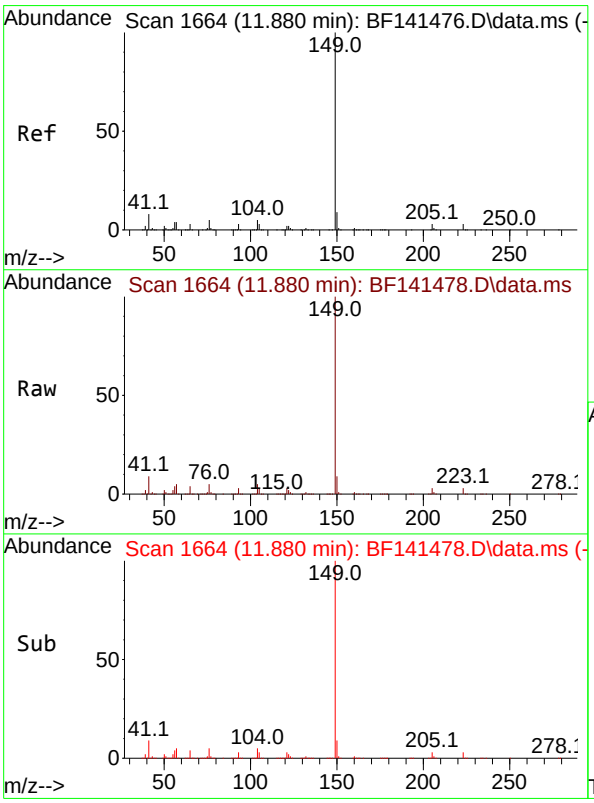
#73
Carbazole
Concen: 57.896 ng
RT: 11.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 927882

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.7	10.9	16.3

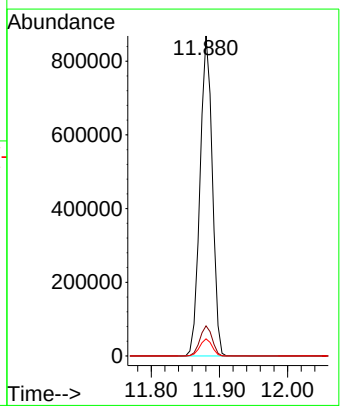


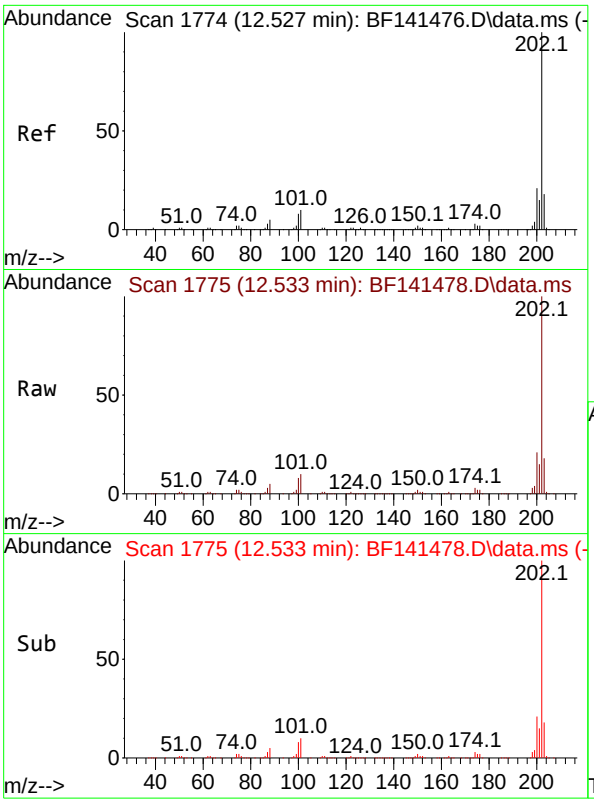


#74
Di-n-butylphthalate
Concen: 58.783 ng
RT: 11.880 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:149 Resp: 1087815

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.0
104	5.4	4.2	6.2



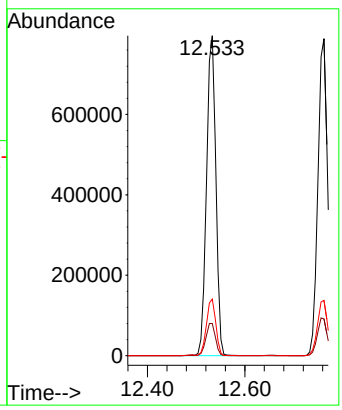


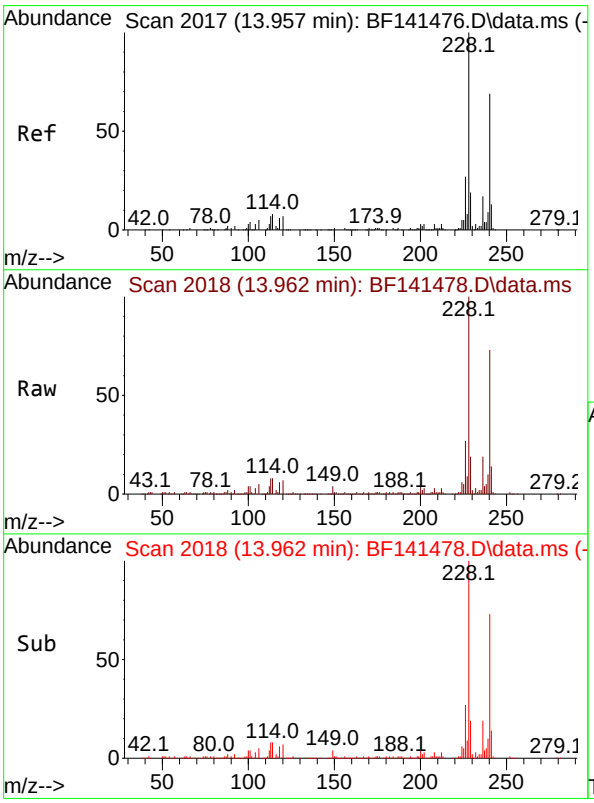
#75
Fluoranthene
Concen: 56.102 ng
RT: 12.533 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 1053887

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.7	0.0	37.6

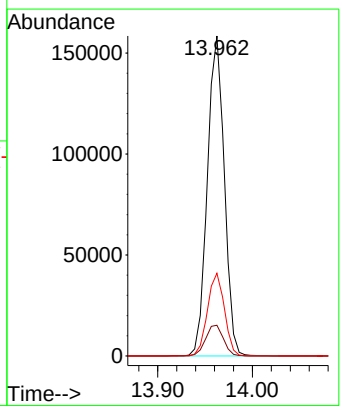


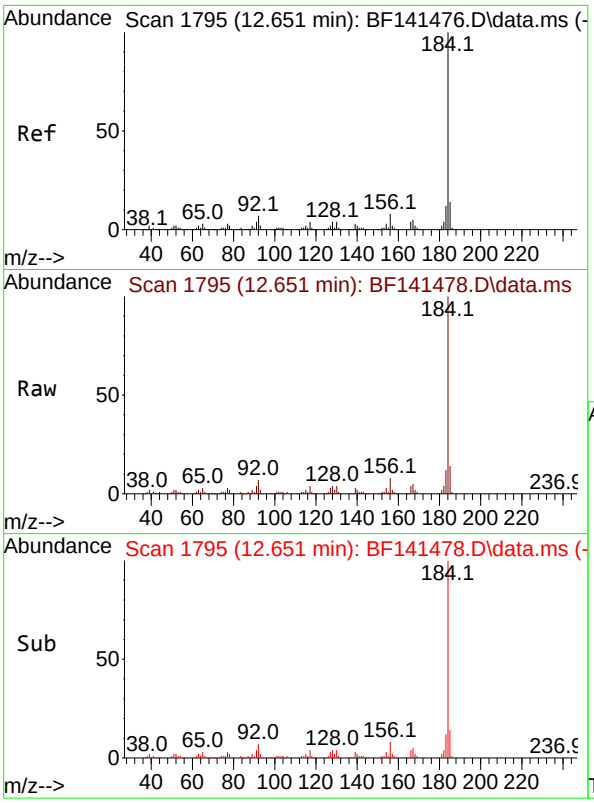


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.962 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:240 Resp: 197108

Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.0	12.0
236	25.9	19.8	29.8



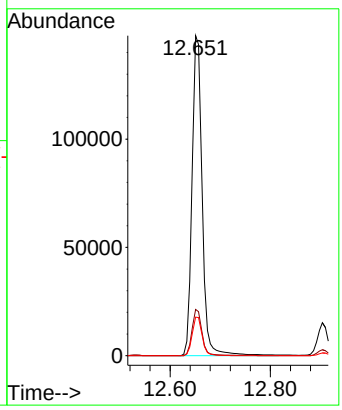


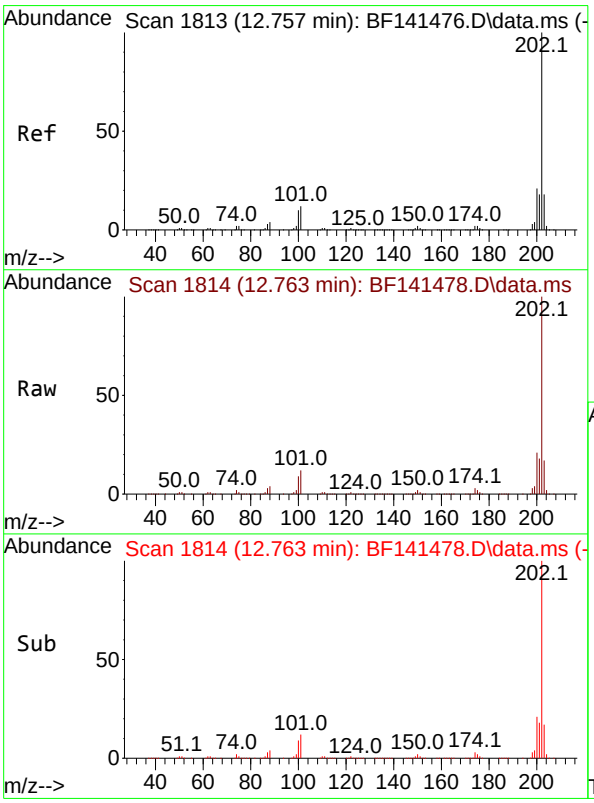
#77
Benzidine
Concen: 47.757 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 207602

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.3	16.9
183	12.0	9.3	13.9

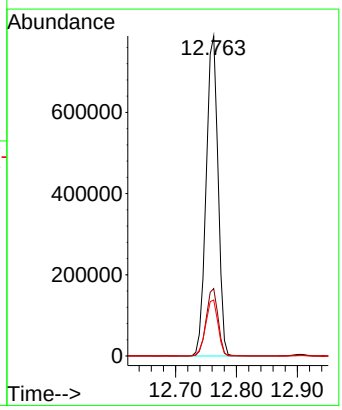


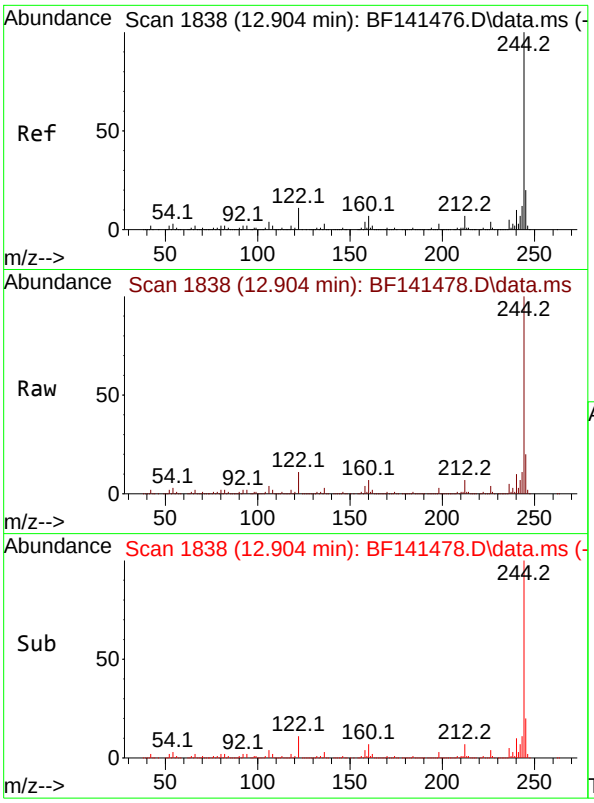


#78
Pyrene
Concen: 63.687 ng
RT: 12.763 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:202 Resp: 1068624

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.5	14.3	21.5



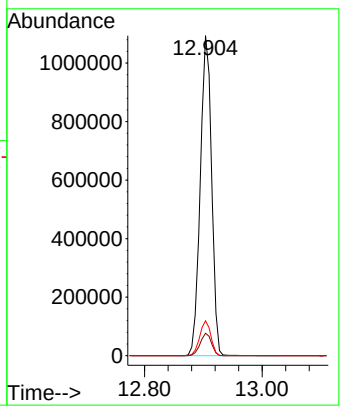


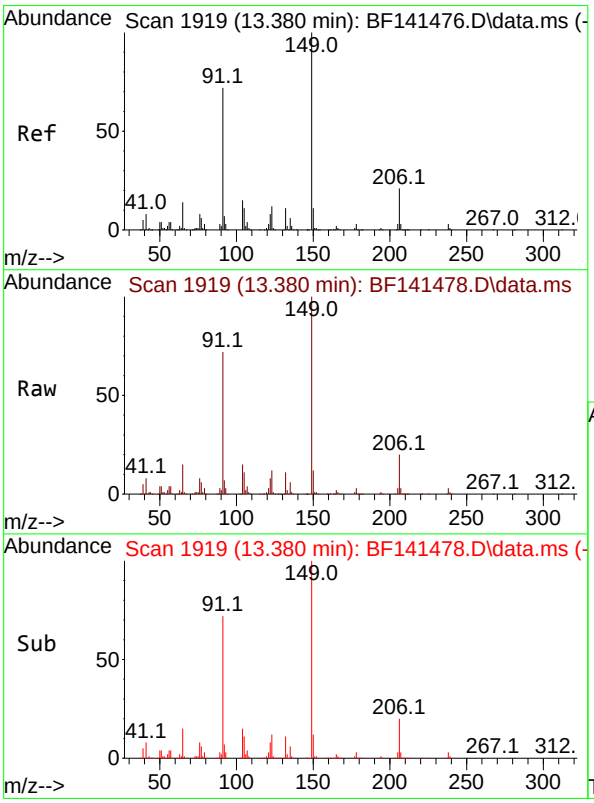
#79
Terphenyl-d14
Concen: 124.977 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp: 1459213

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.9	8.4	12.6

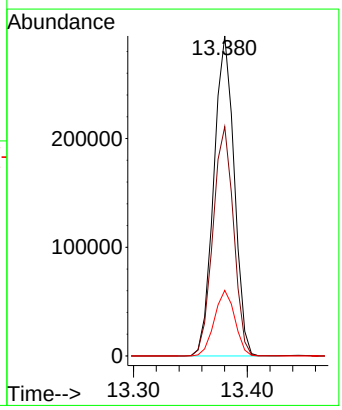


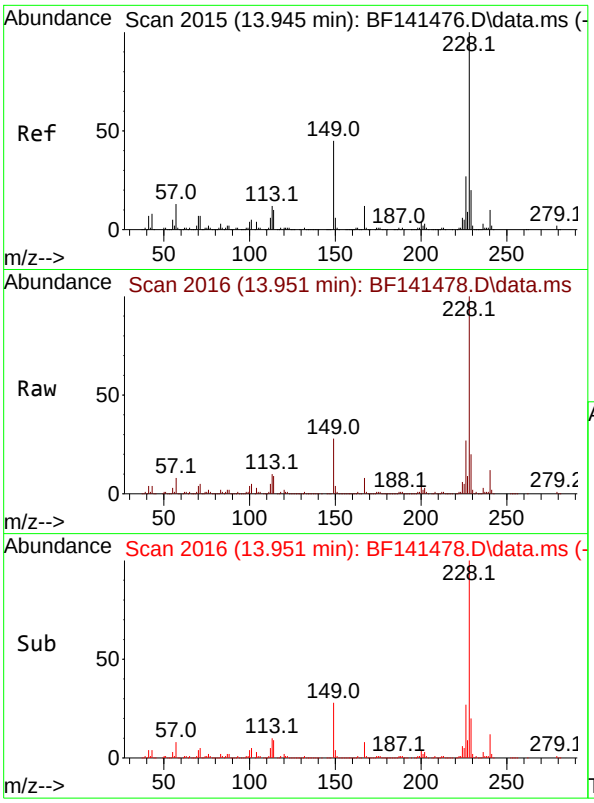


#80
Butylbenzylphthalate
Concen: 63.357 ng
RT: 13.380 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:149 Resp: 368219

Ion	Ratio	Lower	Upper
149	100		
91	71.7	57.8	86.8
206	20.5	16.7	25.1



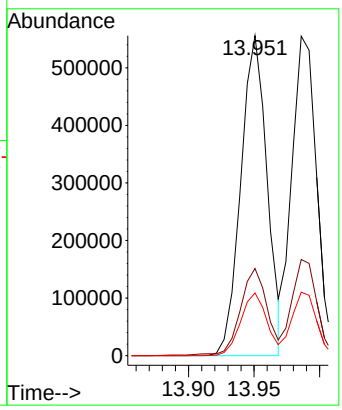


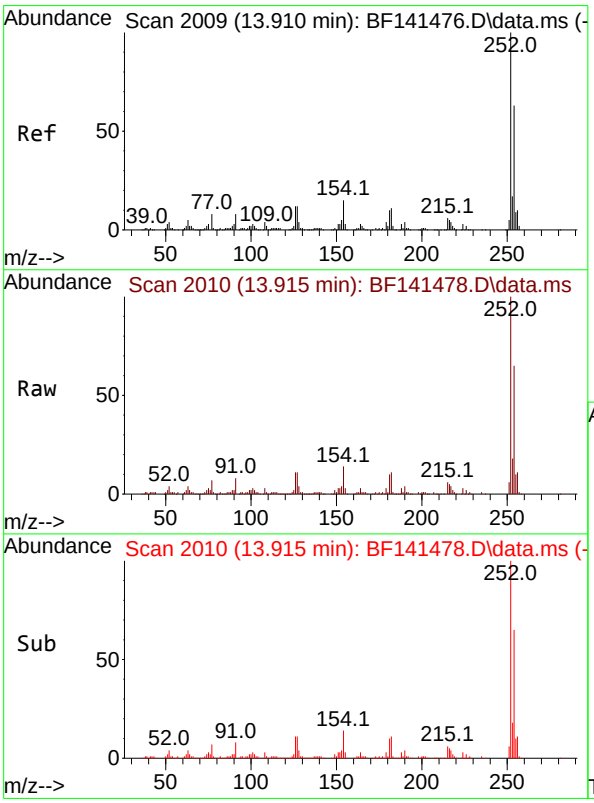
#81
Benzo(a)anthracene
Concen: 59.097 ng
RT: 13.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 774318

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.8	32.8
229	19.6	15.8	23.6

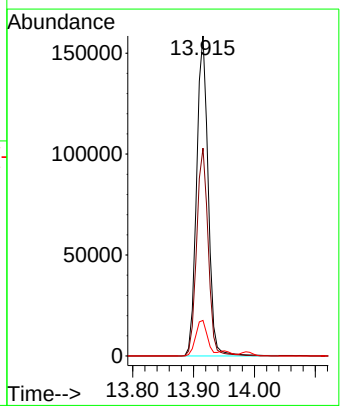


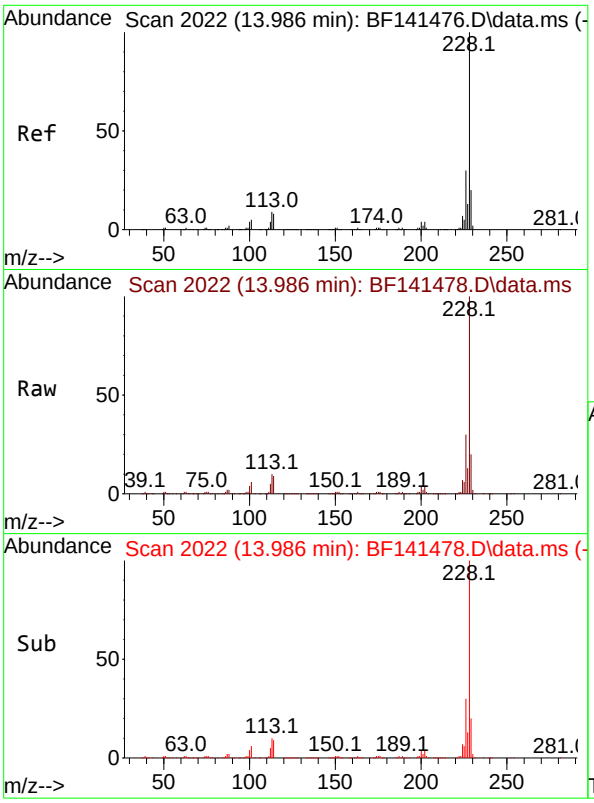


#82
3,3'-Dichlorobenzidine
Concen: 55.639 ng
RT: 13.915 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:252 Resp: 208826

Ion	Ratio	Lower	Upper
252	100		
254	65.0	50.6	76.0
126	11.1	9.3	13.9



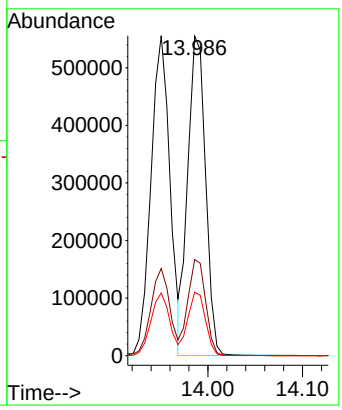


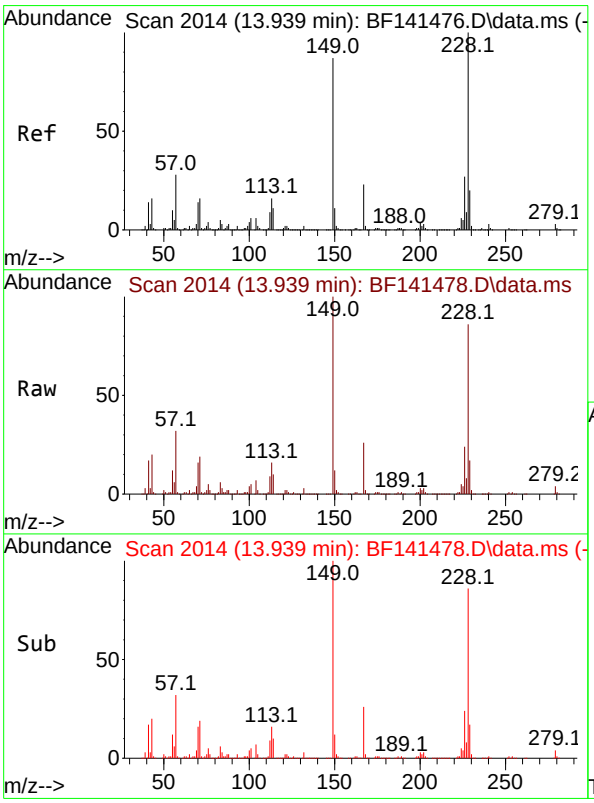
#83
Chrysene
Concen: 59.829 ng
RT: 13.986 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 723815

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.0	36.0
229	19.9	15.7	23.5

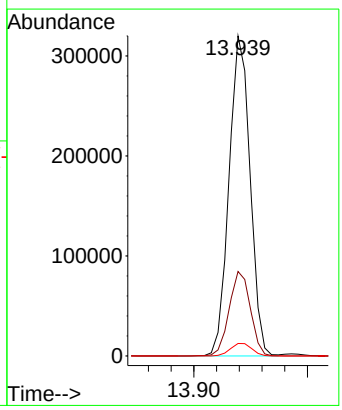


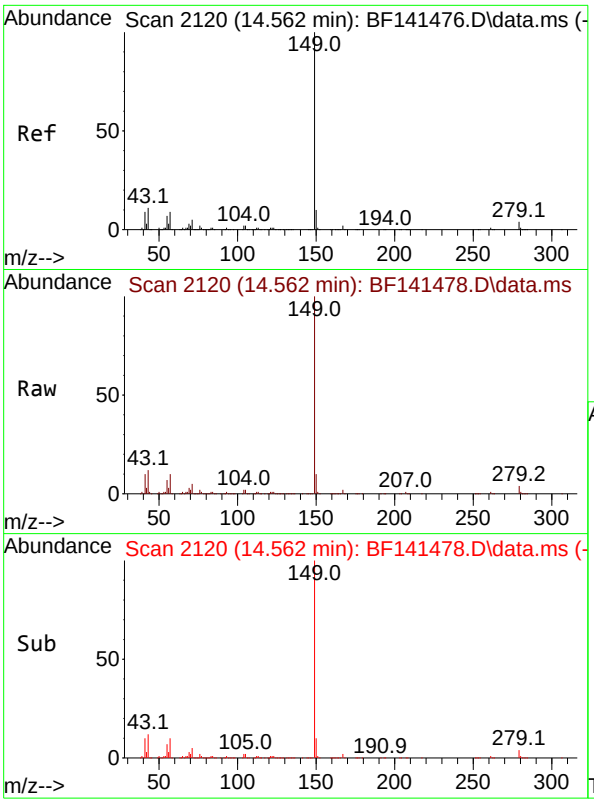


#84
Bis(2-ethylhexyl)phthalate
Concen: 62.851 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:149 Resp: 411979

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.4	32.0
279	3.9	3.1	4.7



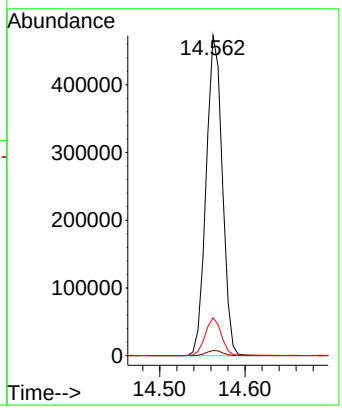


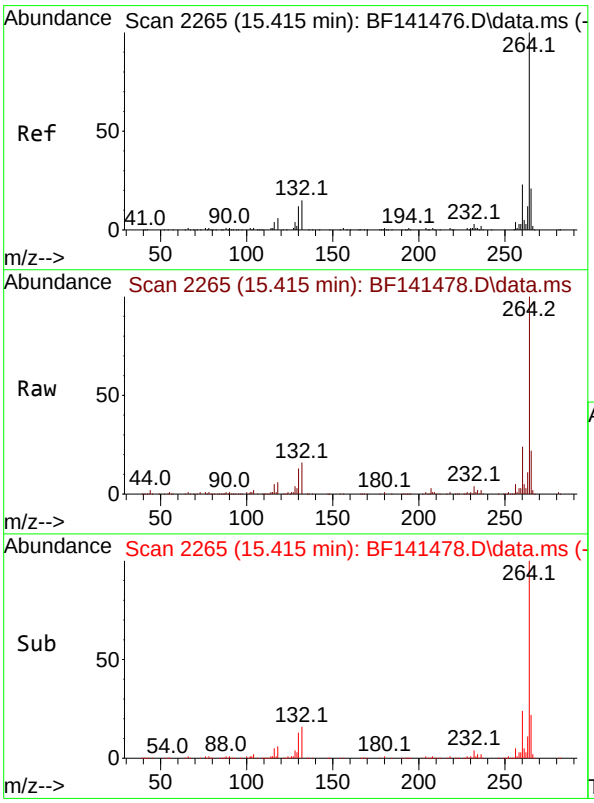
#85
Di-n-octyl phthalate
Concen: 66.464 ng
RT: 14.562 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 621505

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.7	9.5	14.3

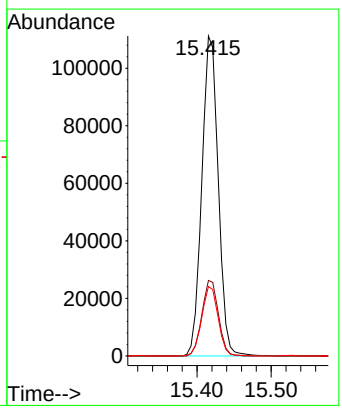


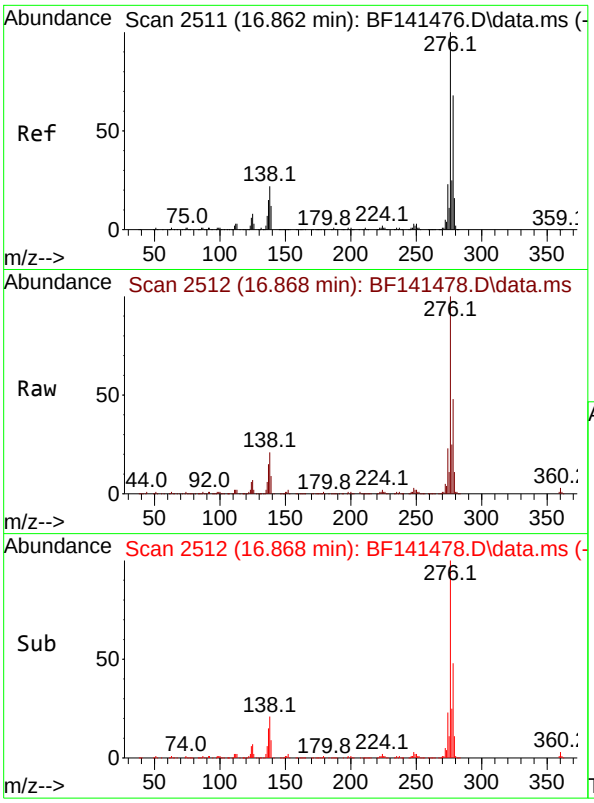


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:264 Resp: 171026

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.7	17.0	25.4



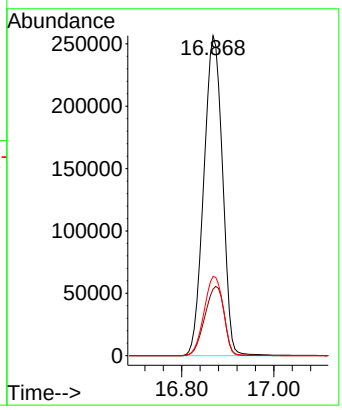


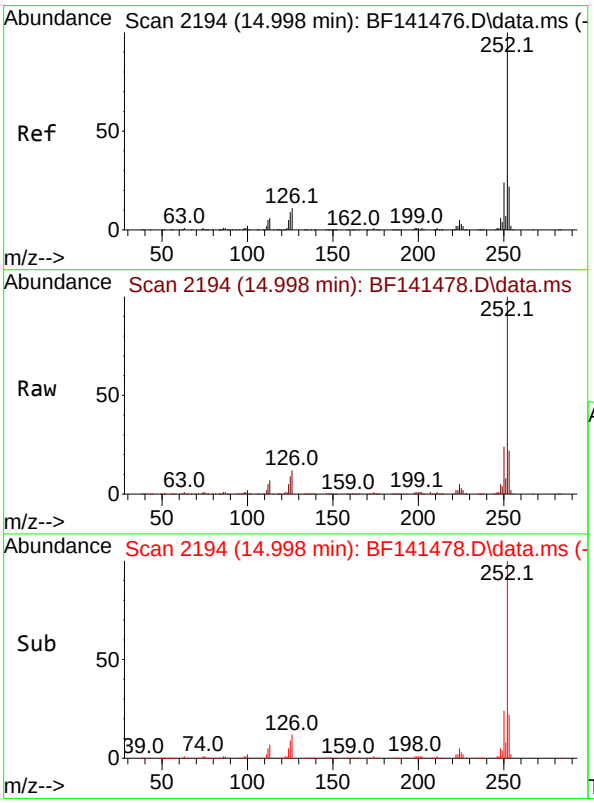
#87
Indeno(1,2,3-cd)pyrene
Concen: 68.464 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 723493

Ion	Ratio	Lower	Upper
276	100		
138	22.6	18.0	27.0
277	25.5	20.4	30.6

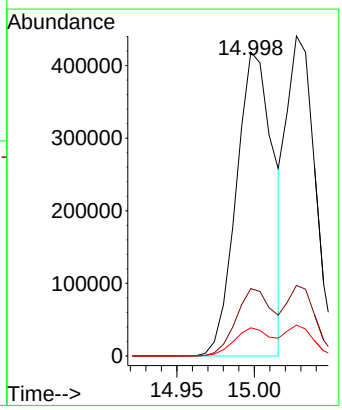


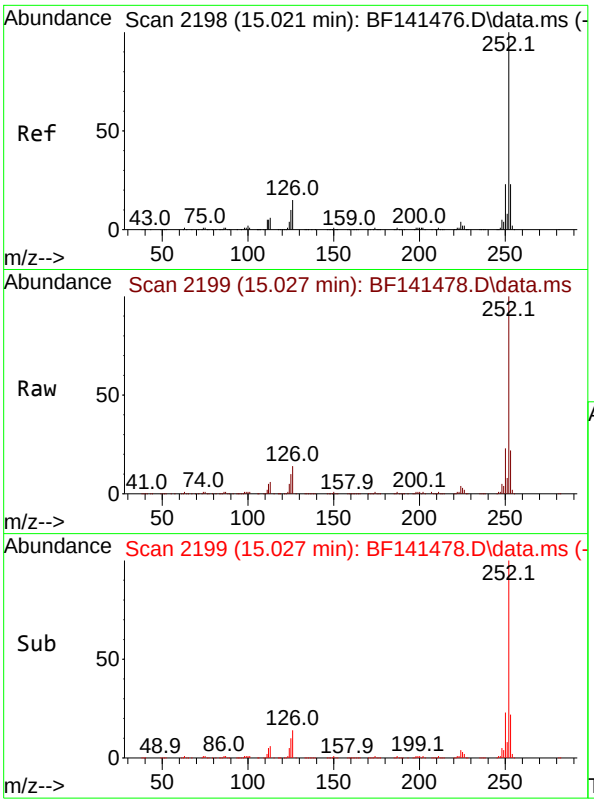


#88
Benzo(b)fluoranthene
Concen: 60.575 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:252 Resp: 695617

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	9.3	7.0	10.6



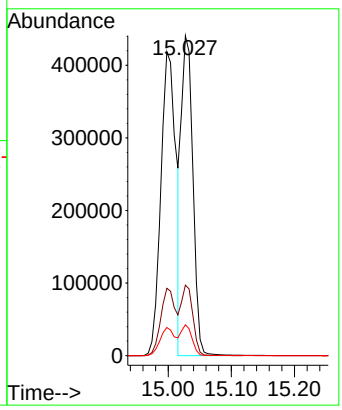


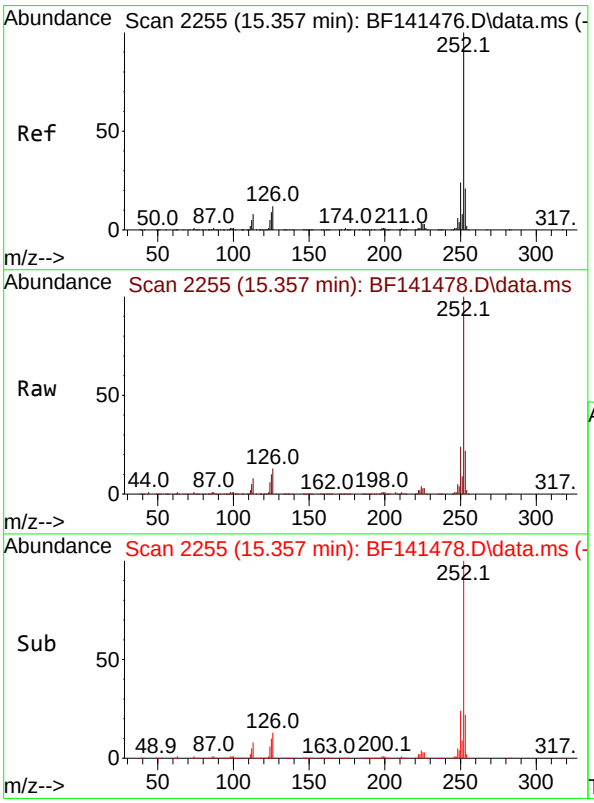
#89
Benzo(k)fluoranthene
Concen: 57.449 ng
RT: 15.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 563342

Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.0	27.0
125	9.6	7.4	11.0

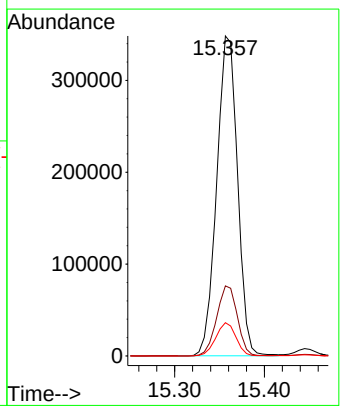


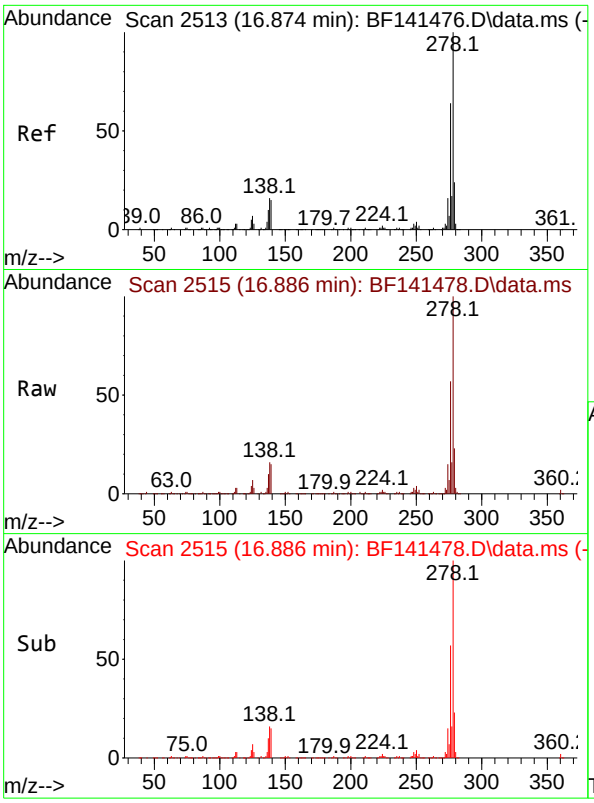


#90
Benzo(a)pyrene
Concen: 60.423 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:252 Resp: 561457

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	10.4	7.4	11.2



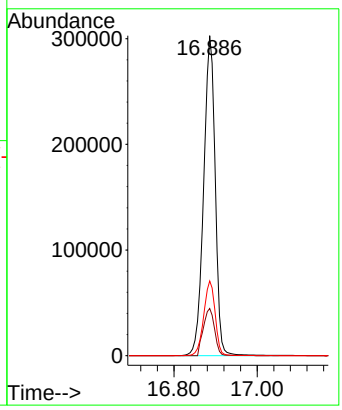


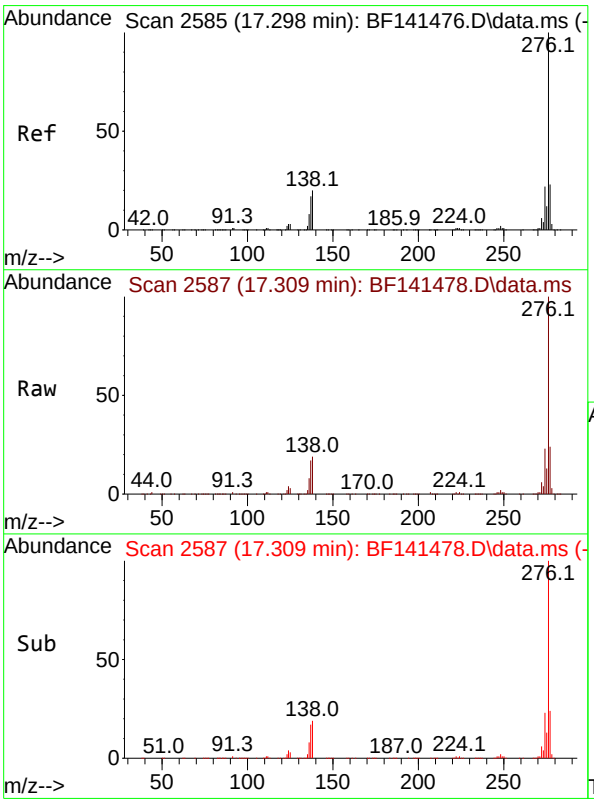
#91
Dibenzo(a,h)anthracene
Concen: 68.216 ng
RT: 16.886 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 584115

Ion	Ratio	Lower	Upper
278	100		
139	14.8	11.8	17.6
279	23.4	19.1	28.7

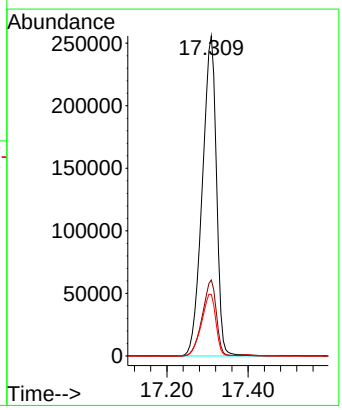




#92
Benzo(g,h,i)perylene
Concen: 68.884 ng
RT: 17.309 min Scan# 2587
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:276 Resp: 617241

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.6	28.0
138	19.3	15.9	23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141479.D
Acq On : 06 Feb 2025 14:14
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Feb 06 16:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.792	152	90415	20.000	ng		0.00
21) Naphthalene-d8	8.075	136	341252	20.000	ng		0.00
39) Acenaphthene-d10	9.833	164	186230	20.000	ng		0.00
64) Phenanthrene-d10	11.316	188	312902	20.000	ng		0.00
76) Chrysene-d12	13.962	240	184347	20.000	ng		0.00
86) Perylene-d12	15.415	264	170605	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	878184	152.272	ng		0.00
7) Phenol-d6	6.439	99	1112281	152.591	ng		0.00
23) Nitrobenzene-d5	7.363	82	1048314	160.228	ng		0.00
42) 2,4,6-Tribromophenol	10.627	330	291947	156.058	ng		0.00
45) 2-Fluorobiphenyl	9.151	172	1789795	148.066	ng		0.00
79) Terphenyl-d14	12.904	244	1781602	163.152	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.481	88	181328	78.119	ng		99
3) Pyridine	3.216	79	435462	78.838	ng		99
4) n-Nitrosodimethylamine	3.187	42	301403	82.409	ng		97
6) Aniline	6.463	93	498556	72.913	ng		94
8) 2-Chlorophenol	6.586	128	470975	75.577	ng		99
10) Phenol	6.457	94	567332	74.779	ng		99
11) bis(2-Chloroethyl)ether	6.534	93	454141	79.695	ng		99
12) 1,3-Dichlorobenzene	6.734	146	494180	75.115	ng		99
13) 1,4-Dichlorobenzene	6.810	146	498585	74.175	ng		99
14) 1,2-Dichlorobenzene	6.963	146	464559	74.465	ng		99
15) Benzyl Alcohol	6.939	79	420673	75.258	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	708318	72.613	ng		77
17) 2-Methylphenol	7.057	107	370173	75.912	ng		97
18) Hexachloroethane	7.304	117	190062	76.402	ng		97
19) n-Nitroso-di-n-propyla...	7.216	70	328097	75.249	ng		98
20) 3+4-Methylphenols	7.216	107	450046	72.613	ng	#	88
22) Acetophenone	7.210	105	652334	76.846	ng		98
24) Nitrobenzene	7.381	77	513249	80.448	ng		98
25) Isophorone	7.622	82	838076	80.337	ng		99
26) 2-Nitrophenol	7.692	139	261386	82.350	ng		98
27) 2,4-Dimethylphenol	7.733	122	300036	80.915	ng		98
28) bis(2-Chloroethoxy)met...	7.828	93	529442	79.203	ng		99
29) 2,4-Dichlorophenol	7.939	162	399027	79.645	ng		98
30) 1,2,4-Trichlorobenzene	8.016	180	428656	78.568	ng		99
31) Naphthalene	8.098	128	1381453	77.769	ng		100
32) Benzoic acid	7.892	122	335418	87.086	ng		98
33) 4-Chloroaniline	8.157	127	504834	81.400	ng		98
34) Hexachlorobutadiene	8.210	225	257532	78.628	ng		100
35) Caprolactam	8.545	113	125619	82.350	ng		97
36) 4-Chloro-3-methylphenol	8.639	107	441925	79.630	ng		98
37) 2-Methylnaphthalene	8.786	142	889774	76.975	ng		100
38) 1-Methylnaphthalene	8.886	142	861860	76.983	ng		99
40) 1,2,4,5-Tetrachloroben...	8.951	216	418579	77.689	ng		99
41) Hexachlorocyclopentadiene	8.939	237	159430	88.965	ng		98
43) 2,4,6-Trichlorophenol	9.069	196	277156	79.591	ng		97
44) 2,4,5-Trichlorophenol	9.116	196	298856	79.189	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141479.D
Acq On : 06 Feb 2025 14:14
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Feb 06 16:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

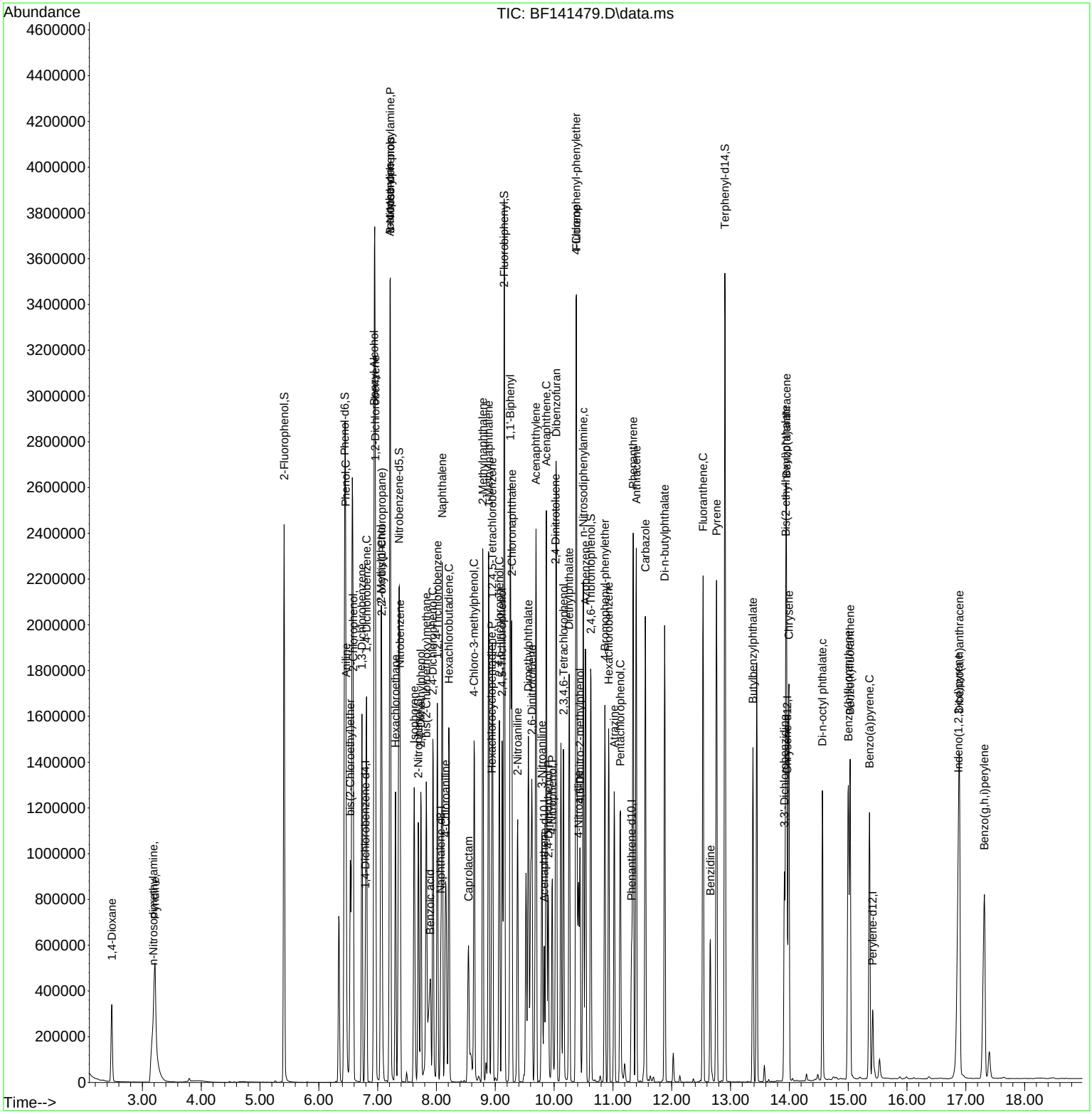
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.257	154	1100720	76.237	ng	99
47) 2-Chloronaphthalene	9.280	162	821334	76.929	ng	99
48) 2-Nitroaniline	9.380	65	286532	79.969	ng	97
49) Acenaphthylene	9.692	152	1211515	76.291	ng	99
50) Dimethylphthalate	9.563	163	1002121	79.265	ng	99
51) 2,6-Dinitrotoluene	9.622	165	215853	78.101	ng	94
52) Acenaphthene	9.869	154	819818	76.791	ng	99
53) 3-Nitroaniline	9.792	138	235511	79.173	ng	97
54) 2,4-Dinitrophenol	9.904	184	147768	89.960	ng	95
55) Dibenzofuran	10.039	168	1174157	74.928	ng	100
56) 4-Nitrophenol	9.969	139	187131	84.744	ng	97
57) 2,4-Dinitrotoluene	10.027	165	284954	77.449	ng	95
58) Fluorene	10.380	166	909704	75.080	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.163	232	253454	78.006	ng	98
60) Diethylphthalate	10.257	149	945293	75.995	ng	100
61) 4-Chlorophenyl-phenyle...	10.374	204	435522	74.716	ng	99
62) 4-Nitroaniline	10.416	138	241257	79.873	ng	99
63) Azobenzene	10.533	77	963689	77.931	ng	99
65) 4,6-Dinitro-2-methylph...	10.439	198	185427	85.309	ng	99
66) n-Nitrosodiphenylamine	10.498	169	785313	78.404	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	276228	78.988	ng	96
68) Hexachlorobenzene	10.927	284	285111	79.174	ng	97
69) Atrazine	11.021	200	219923	73.188	ng	100
70) Pentachlorophenol	11.127	266	200556	87.100	ng	99
71) Phenanthrene	11.345	178	1312474	76.201	ng	100
72) Anthracene	11.398	178	1322462	76.380	ng	99
73) Carbazole	11.551	167	1168253	74.989	ng	99
74) Di-n-butylphthalate	11.880	149	1382706	76.865	ng	99
75) Fluoranthene	12.533	202	1333237	73.011	ng	100
77) Benzidine	12.657	184	354555	87.207	ng	99
78) Pyrene	12.763	202	1319554	84.086	ng	100
80) Butylbenzylphthalate	13.380	149	459803	84.592	ng	100
81) Benzo(a)anthracene	13.951	228	943291	76.977	ng	100
82) 3,3'-Dichlorobenzidine	13.915	252	263773	75.143	ng	100
83) Chrysene	13.992	228	906415	80.108	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	517884	84.477	ng	99
85) Di-n-octyl phthalate	14.562	149	803601	91.886	ng	100
87) Indeno(1,2,3-cd)pyrene	16.874	276	961023	91.166	ng	100
88) Benzo(b)fluoranthene	15.004	252	865205	75.529	ng	100
89) Benzo(k)fluoranthene	15.033	252	776323	79.364	ng	99
90) Benzo(a)pyrene	15.362	252	742932	80.150	ng	99
91) Dibenzo(a,h)anthracene	16.892	278	773684	90.578	ng	99
92) Benzo(g,h,i)perylene	17.315	276	831418	93.015	ng	99

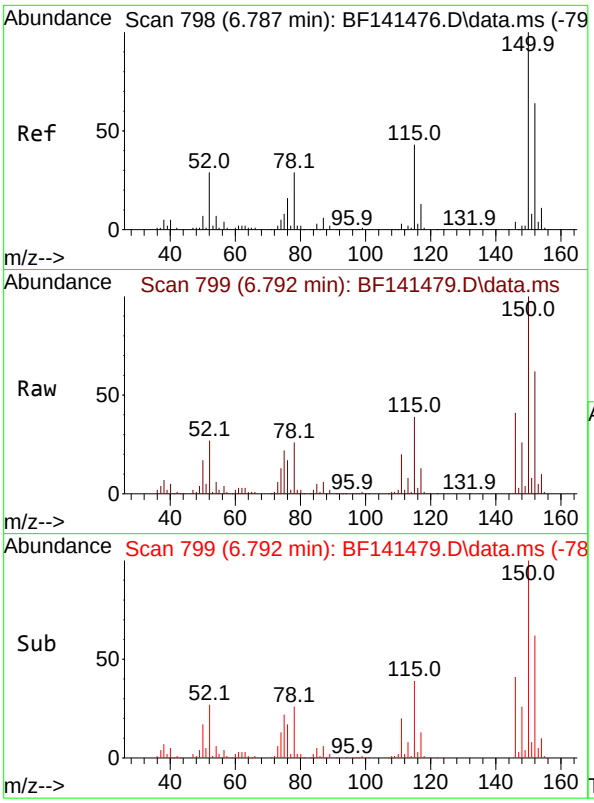
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141479.D
Acq On : 06 Feb 2025 14:14
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Feb 06 16:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



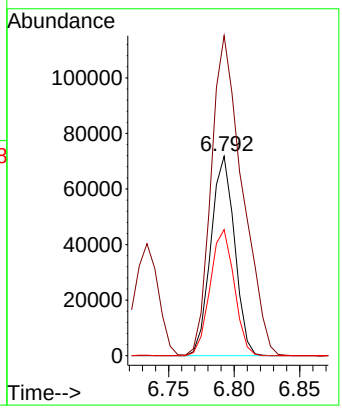


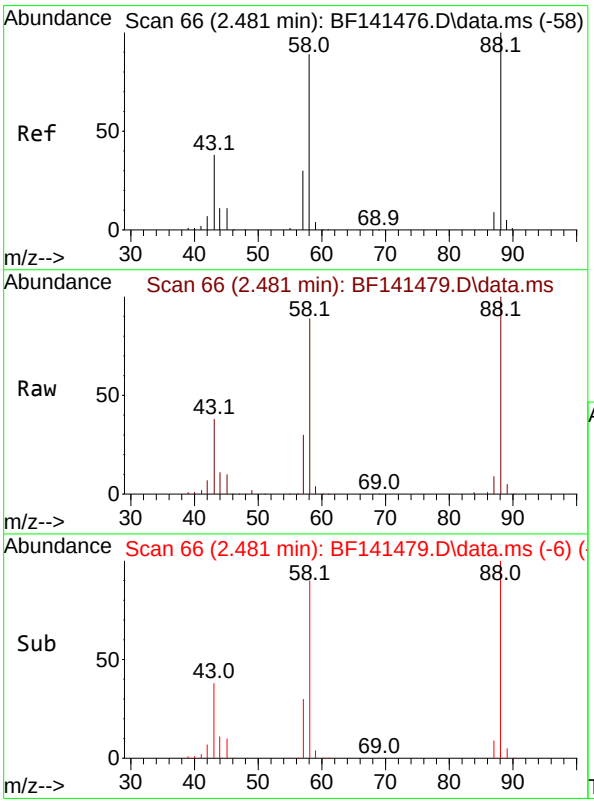
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 90415

Ion	Ratio	Lower	Upper
152	100		
150	160.5	125.0	187.4
115	63.2	53.6	80.4

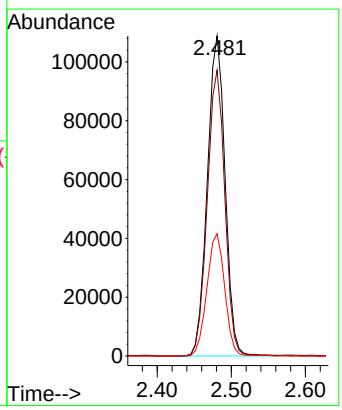


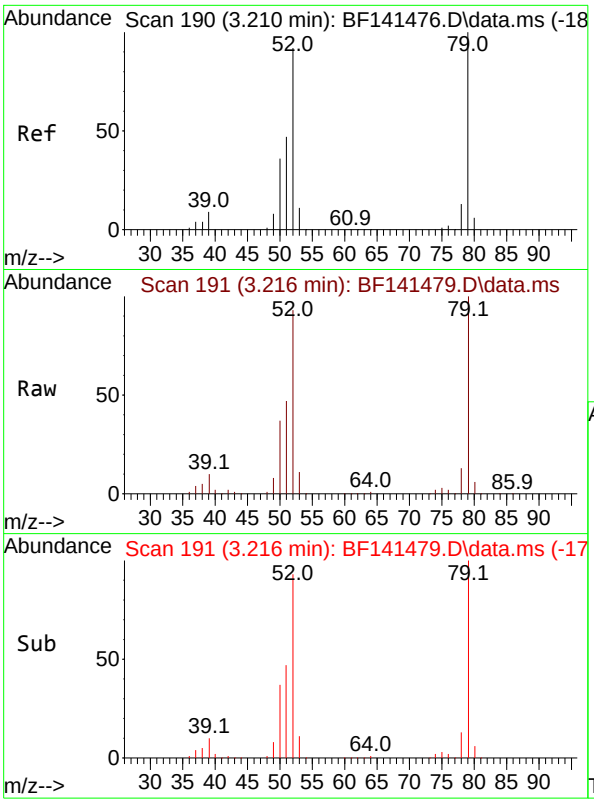


#2
1,4-Dioxane
Concen: 78.119 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 88 Resp: 181328

Ion	Ratio	Lower	Upper
88	100		
58	88.2	71.1	106.7
43	38.3	30.6	46.0



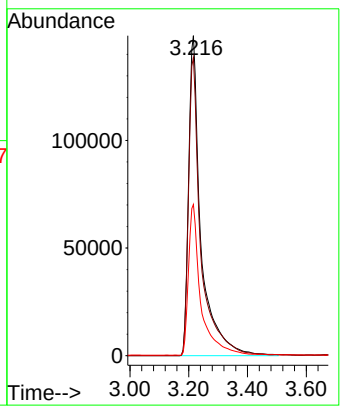


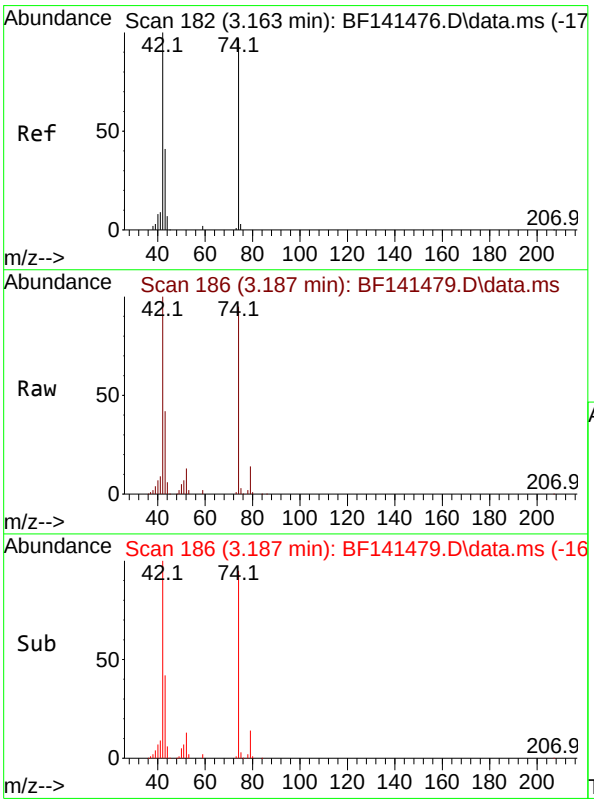
#3
Pyridine
Concen: 78.838 ng
RT: 3.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 435462

Ion	Ratio	Lower	Upper
79	100		
52	93.2	73.7	110.5
51	47.3	37.5	56.3

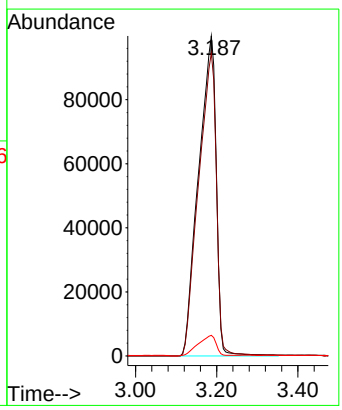


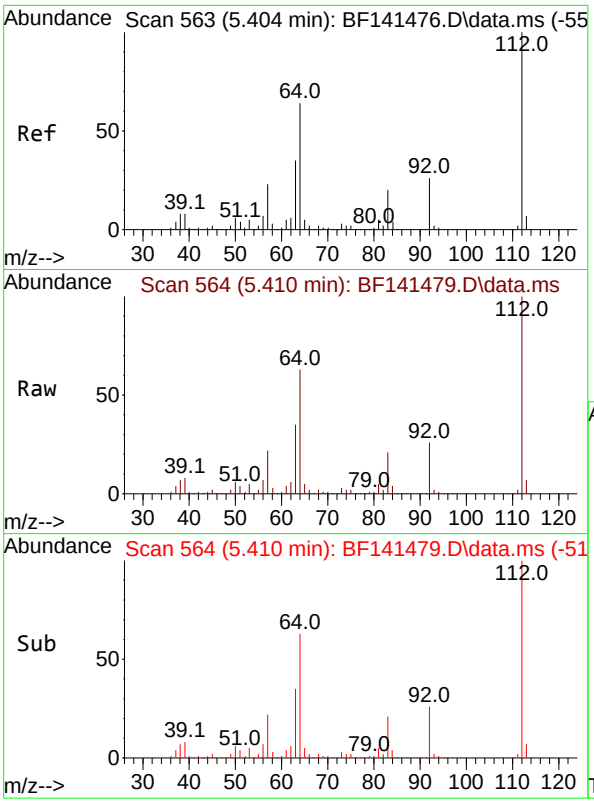


#4
n-Nitrosodimethylamine
Concen: 82.409 ng
RT: 3.187 min Scan# 186
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 42 Resp: 301403

Ion	Ratio	Lower	Upper
42	100		
74	94.7	78.0	117.0
44	6.4	5.4	8.2



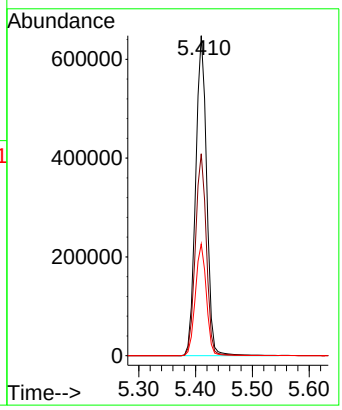


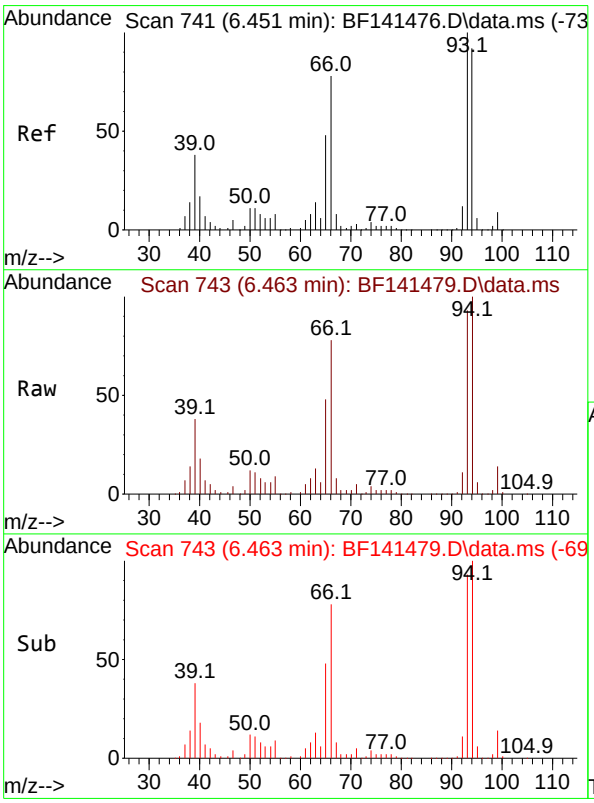
#5
2-Fluorophenol
Concen: 152.272 ng
RT: 5.410 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 878184

Ion	Ratio	Lower	Upper
112	100		
64	63.1	51.1	76.7
63	34.9	28.4	42.6

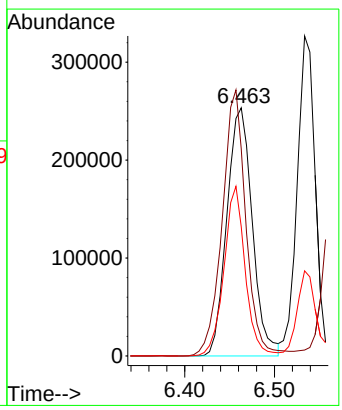


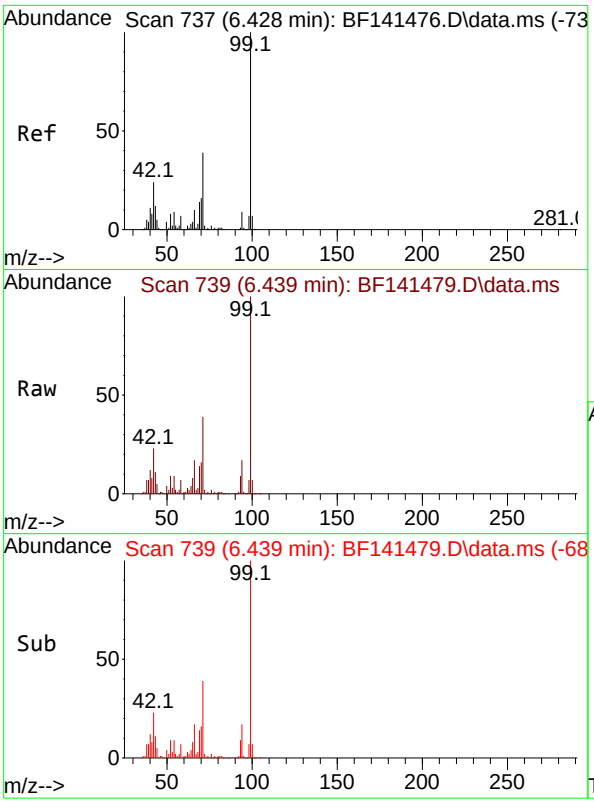


#6
Aniline
Concen: 72.913 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 93 Resp: 498556

Ion	Ratio	Lower	Upper
93	100		
66	83.5	62.6	94.0
65	52.1	38.3	57.5



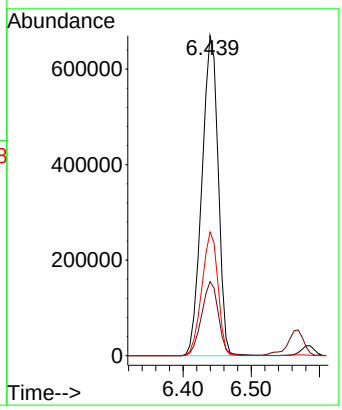


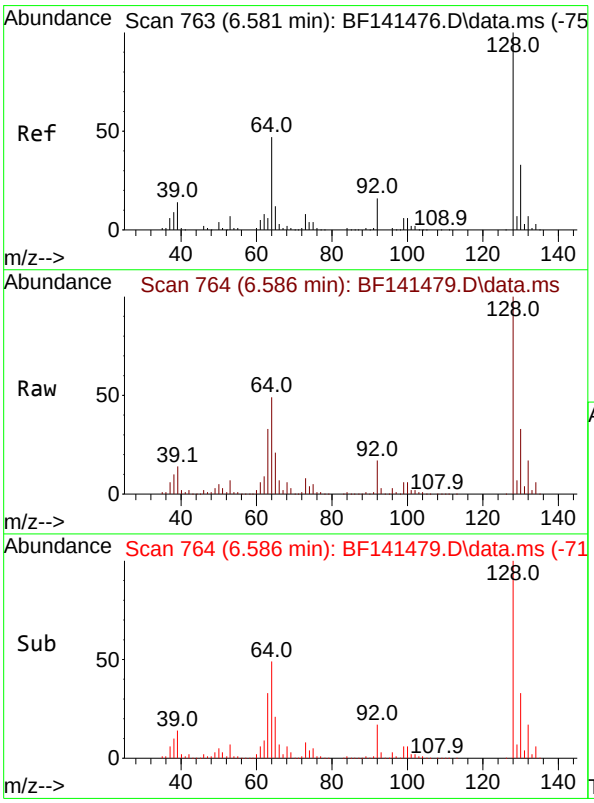
#7
Phenol-d6
Concen: 152.591 ng
RT: 6.439 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 1112281

Ion	Ratio	Lower	Upper
99	100		
42	23.2	19.1	28.7
71	38.7	31.1	46.7

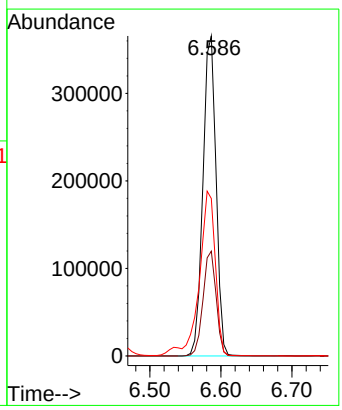


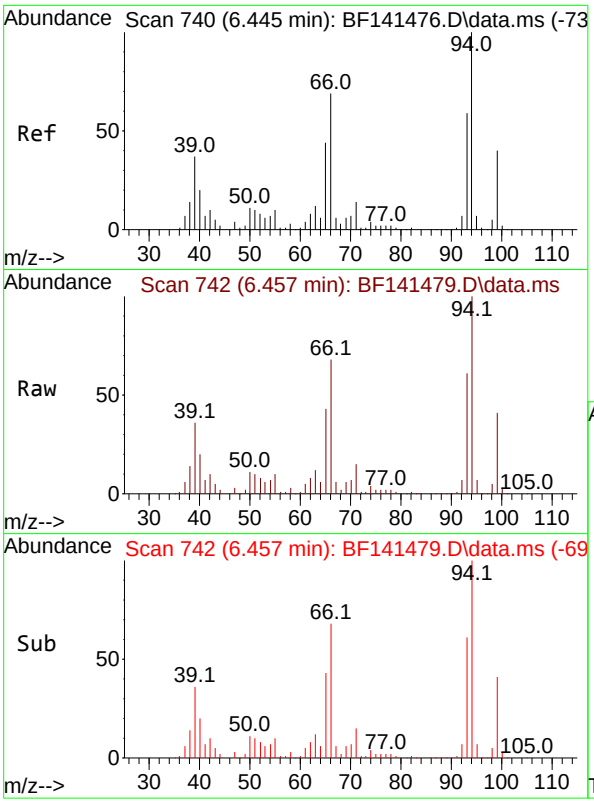


#8
2-Chlorophenol
Concen: 75.577 ng
RT: 6.586 min Scan# 764
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:128 Resp: 470975

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.7	52.7
64	49.2	28.3	68.3



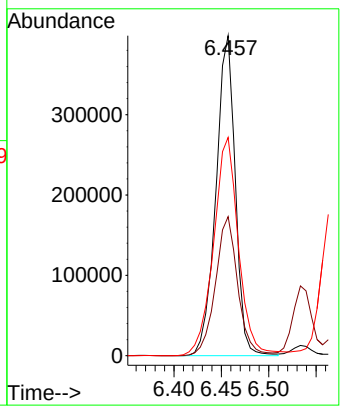


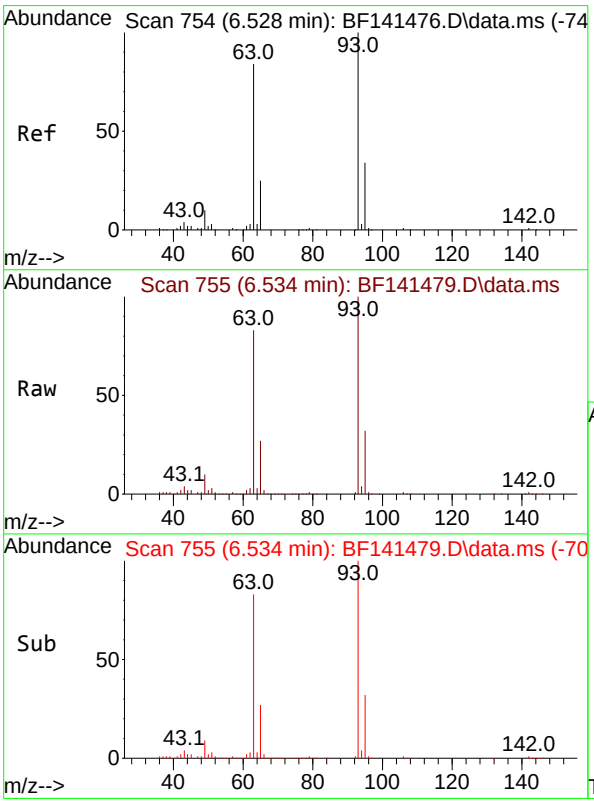
#10
Phenol
Concen: 74.779 ng
RT: 6.457 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 94 Resp: 567332

Ion	Ratio	Lower	Upper
94	100		
65	43.5	23.7	63.7
66	68.2	49.3	89.3

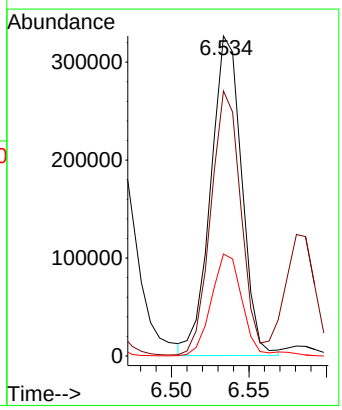


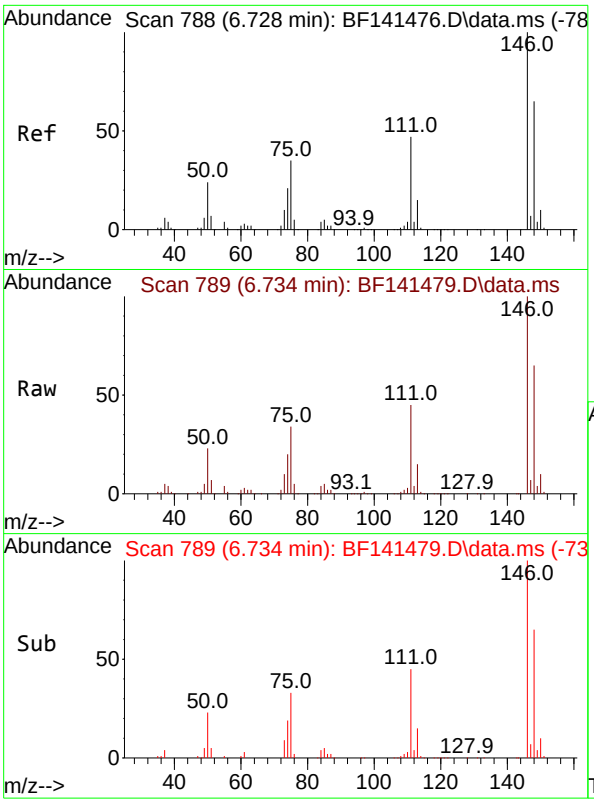


#11
bis(2-Chloroethyl)ether
Concen: 79.695 ng
RT: 6.534 min Scan# 755
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 93 Resp: 454141

Ion	Ratio	Lower	Upper
93	100		
63	82.8	62.0	102.0
95	31.9	12.6	52.6



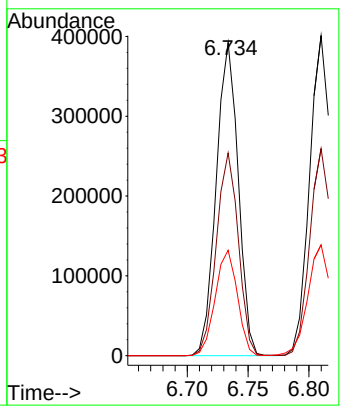


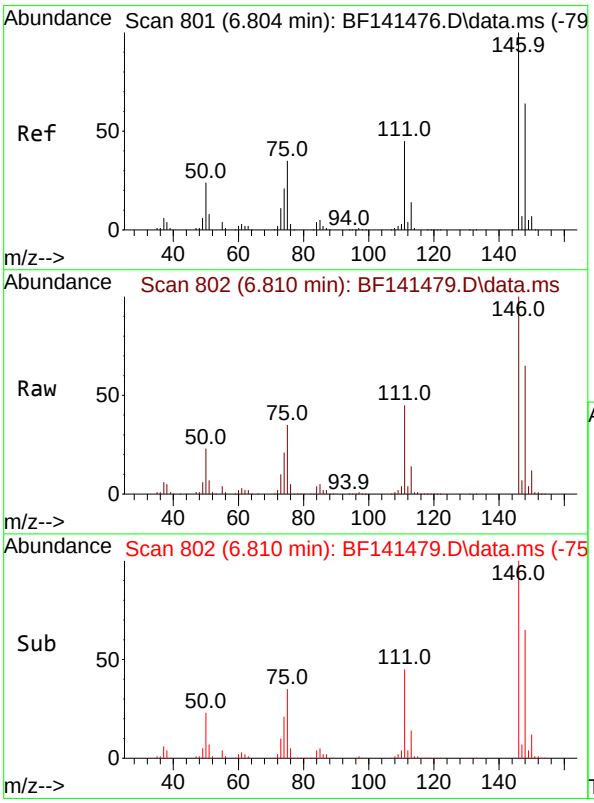
#12
1,3-Dichlorobenzene
Concen: 75.115 ng
RT: 6.734 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 494180

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.9	77.9
75	33.7	28.2	42.2

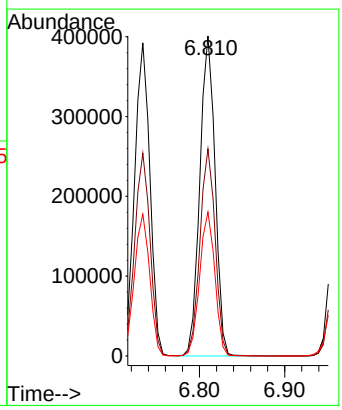


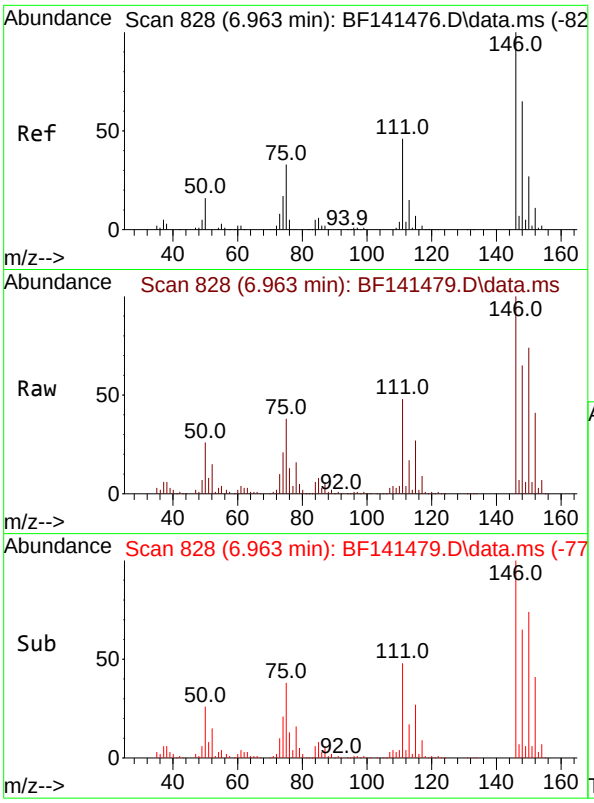


#13
1,4-Dichlorobenzene
Concen: 74.175 ng
RT: 6.810 min Scan# 802
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:146 Resp: 498585

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.9	76.3
111	44.9	35.9	53.9



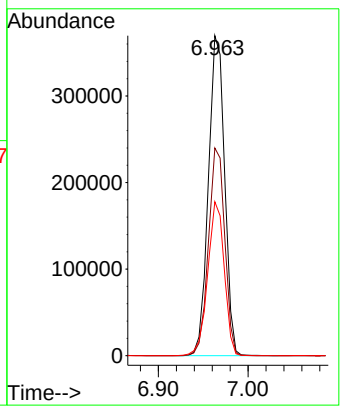


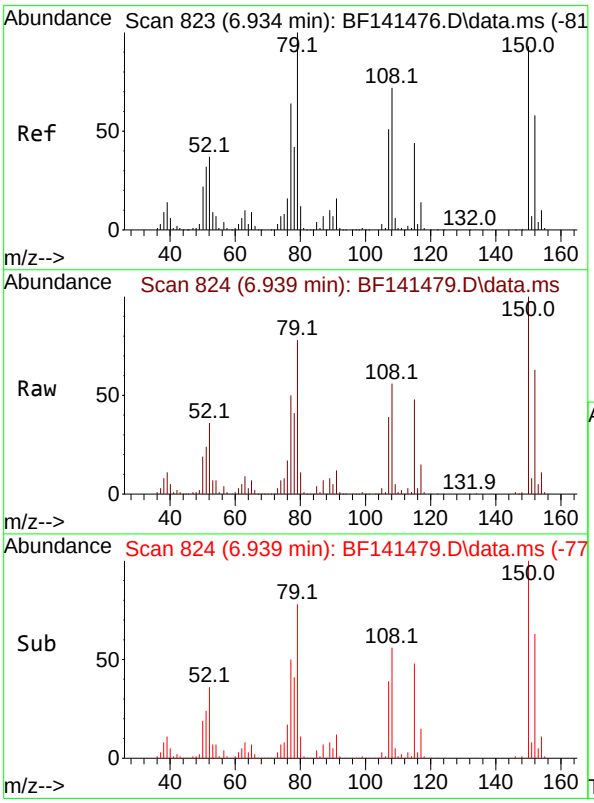
#14
1,2-Dichlorobenzene
Concen: 74.465 ng
RT: 6.963 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 464559

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.8	77.6
111	48.1	37.0	55.4

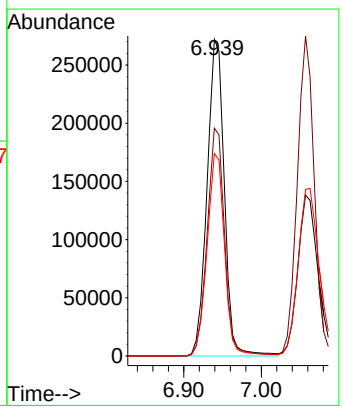


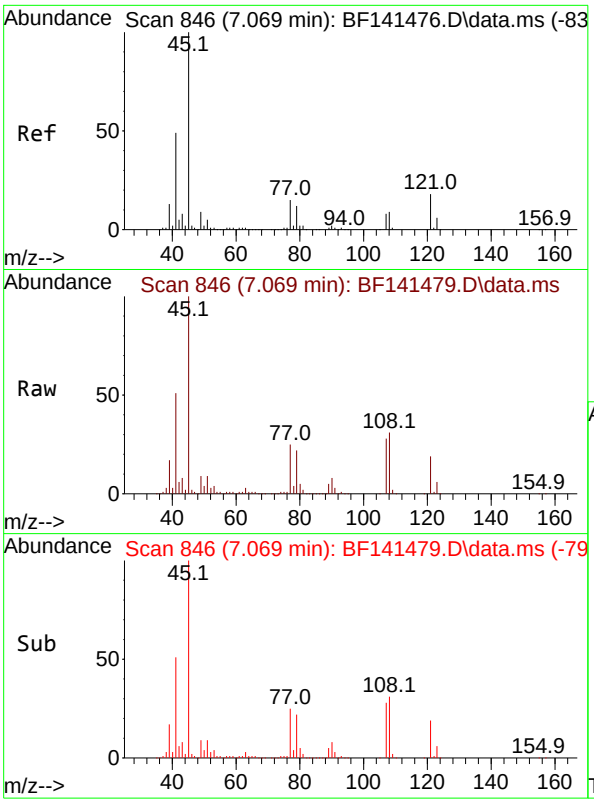


#15
Benzyl Alcohol
Concen: 75.258 ng
RT: 6.939 min Scan# 824
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 79 Resp: 420673

Ion	Ratio	Lower	Upper
79	100		
108	72.0	57.4	86.2
77	64.0	50.9	76.3



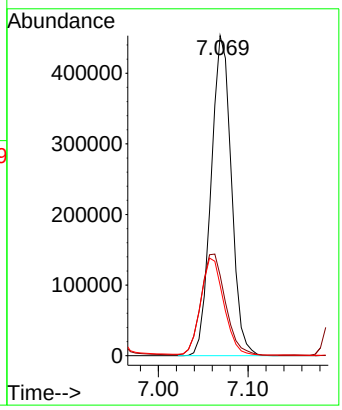


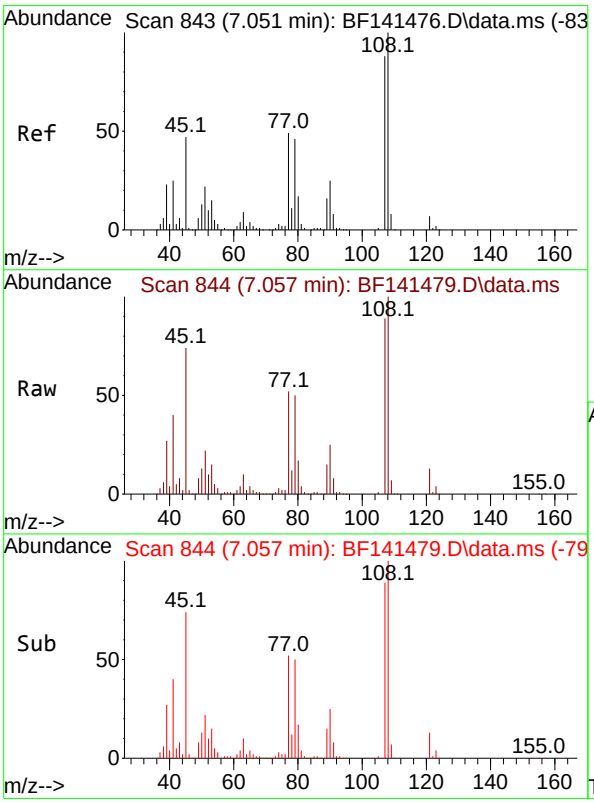
#16
2,2'-oxybis(1-Chloropropane)
Concen: 72.613 ng
RT: 7.069 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 45 Resp: 708318

Ion	Ratio	Lower	Upper
45	100		
77	25.1	0.0	35.8
79	22.0	0.0	32.7

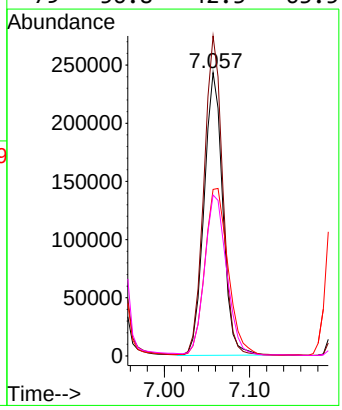


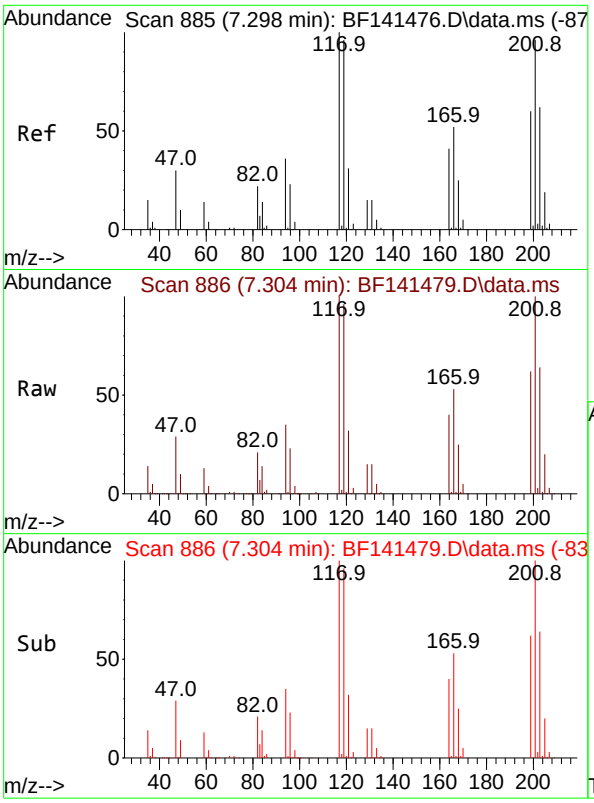


#17
2-Methylphenol
Concen: 75.912 ng
RT: 7.057 min Scan# 844
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:107 Resp: 370173

Ion	Ratio	Lower	Upper
107	100		
108	112.9	90.6	136.0
77	58.7	44.4	66.6
79	56.8	42.3	63.5



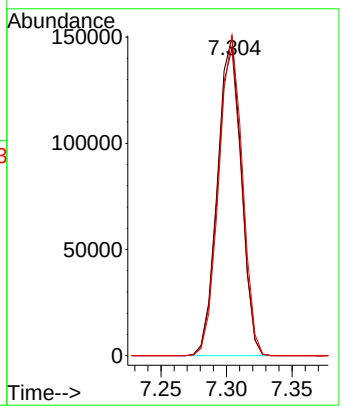


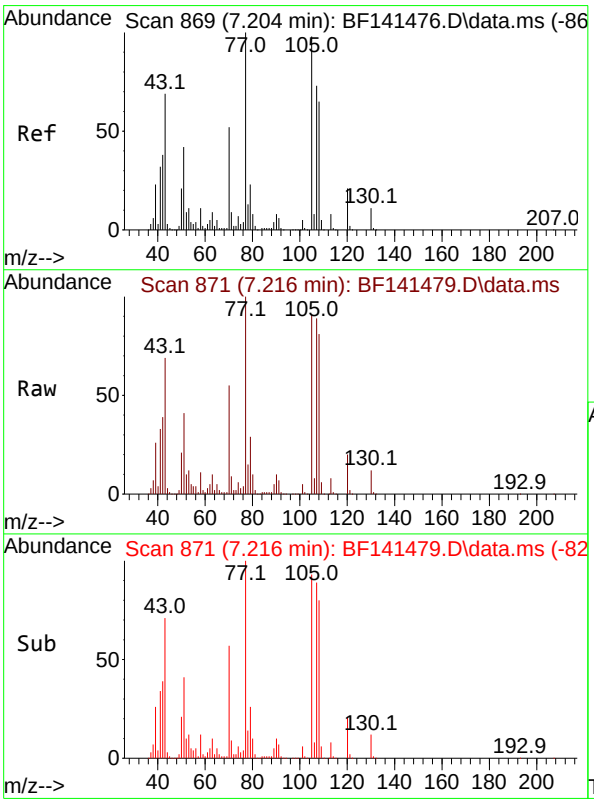
#18
Hexachloroethane
Concen: 76.402 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:117 Resp: 190062

Ion	Ratio	Lower	Upper
117	100		
119	96.5	76.5	114.7
201	100.5	76.7	115.1

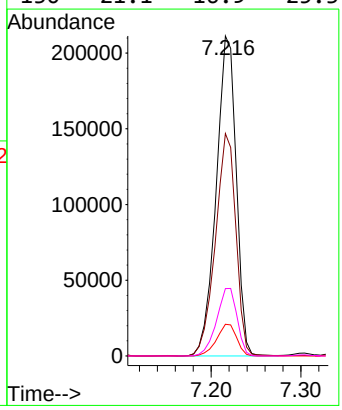


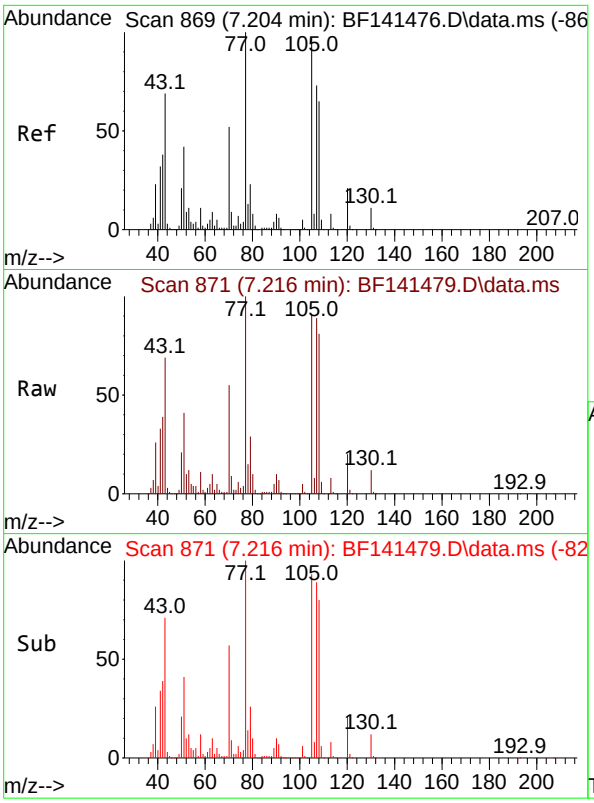


#19
n-Nitroso-di-n-propylamine
Concen: 75.249 ng
RT: 7.216 min Scan# 871
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 70 Resp: 328097

Ion	Ratio	Lower	Upper
70	100		
42	69.5	57.4	86.2
101	9.9	8.0	12.0
130	21.1	16.9	25.3



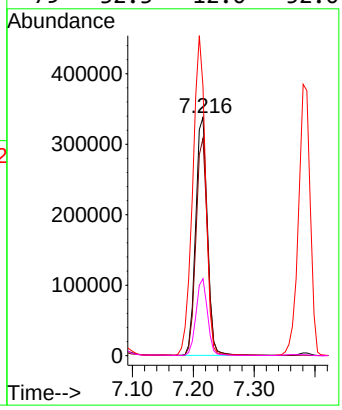


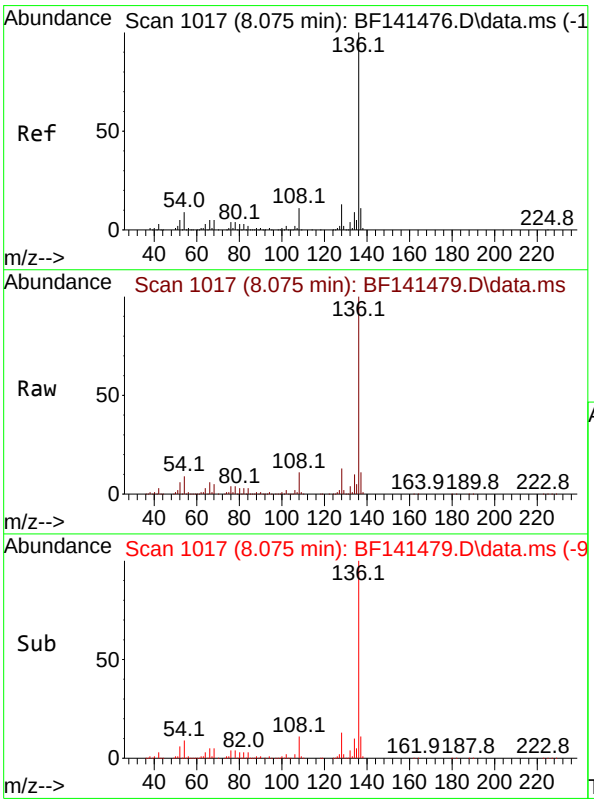
#20
3+4-Methylphenols
Concen: 72.613 ng
RT: 7.216 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 450046

Ion	Ratio	Lower	Upper
107	100		
108	91.3	68.5	108.5
77	112.8	116.5	156.5#
79	32.3	12.0	52.0

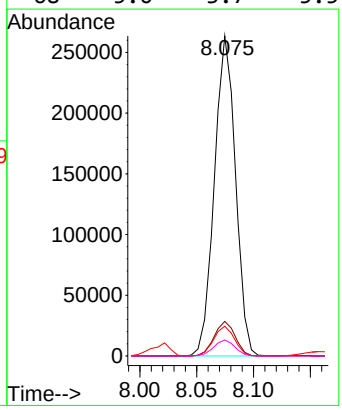


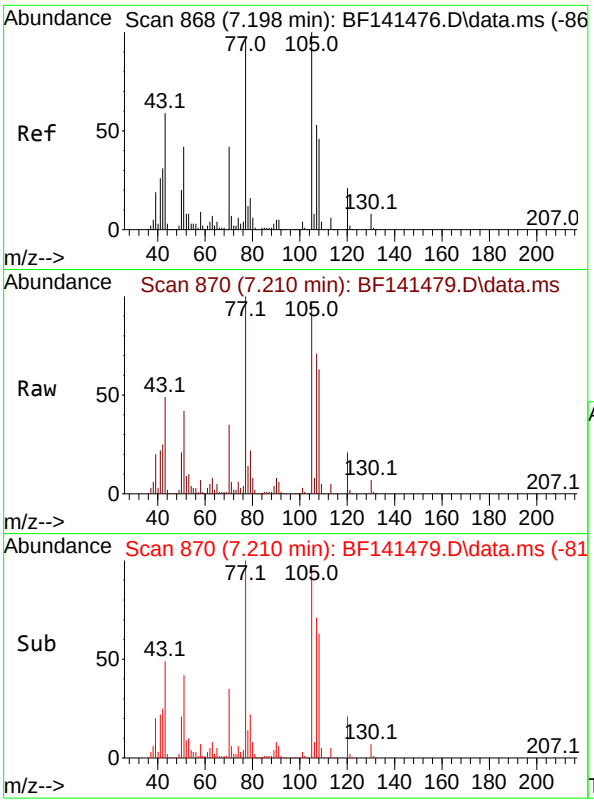


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:136 Resp: 341252

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.3	7.2	10.8
68	5.0	3.7	5.5



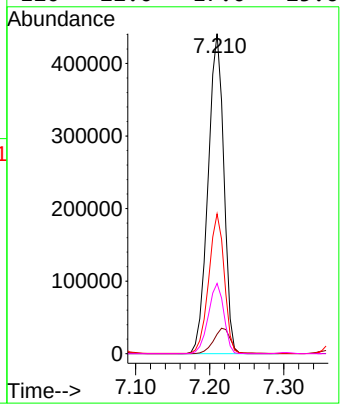


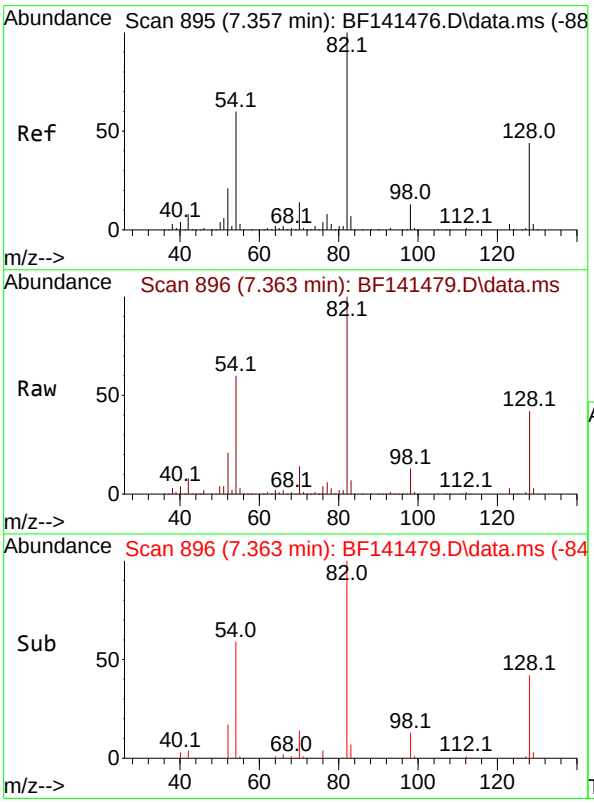
#22
Acetophenone
Concen: 76.846 ng
RT: 7.210 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:105 Resp: 652334

Ion	Ratio	Lower	Upper
105	100		
71	6.1	5.7	8.5
51	43.7	33.7	50.5
120	22.0	17.0	25.6

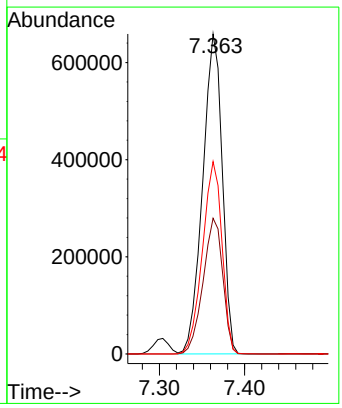


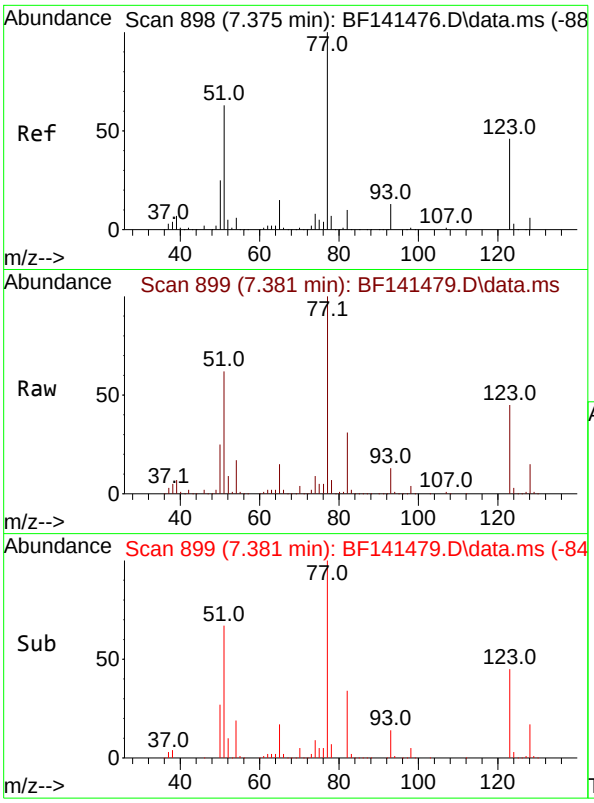


#23
Nitrobenzene-d5
Concen: 160.228 ng
RT: 7.363 min Scan# 896
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 82 Resp: 1048314

Ion	Ratio	Lower	Upper
82	100		
128	42.4	34.8	52.2
54	60.1	48.2	72.4



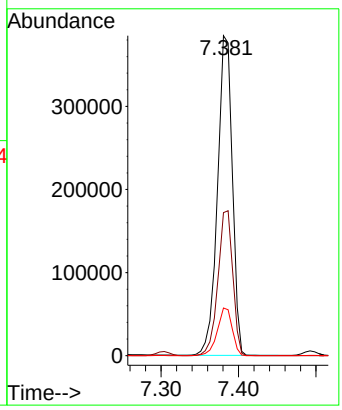


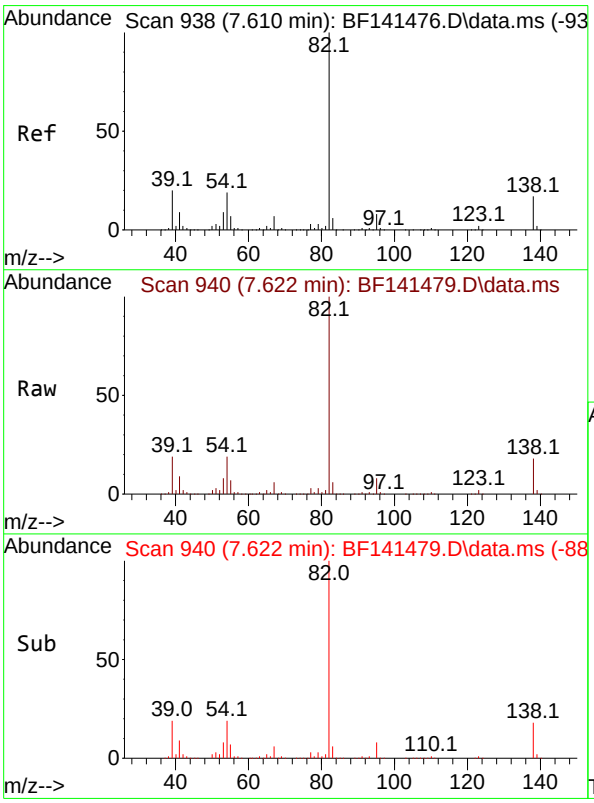
#24
Nitrobenzene
Concen: 80.448 ng
RT: 7.381 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 513249

Ion	Ratio	Lower	Upper
77	100		
123	44.7	36.9	55.3
65	14.9	11.9	17.9

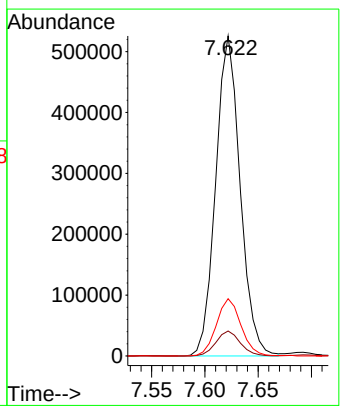


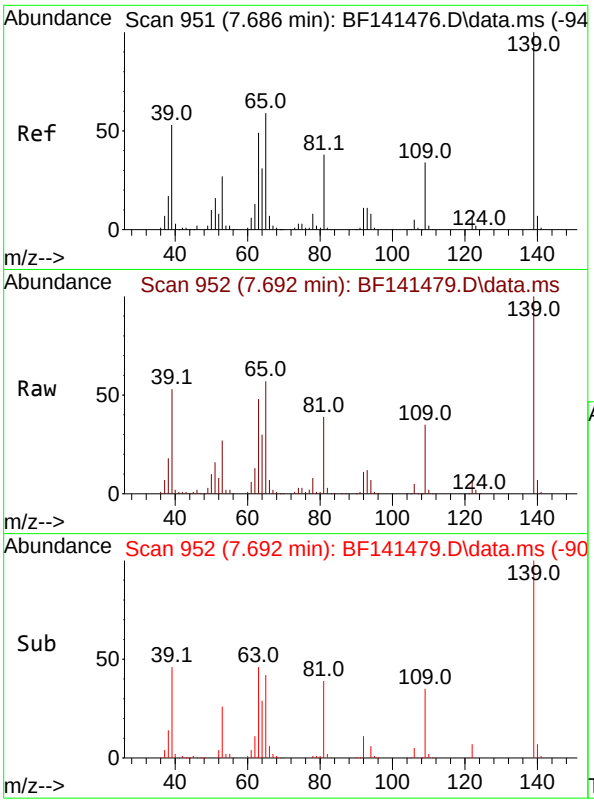


#25
Isophorone
Concen: 80.337 ng
RT: 7.622 min Scan# 940
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 82 Resp: 838076

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	17.9	13.9	20.9



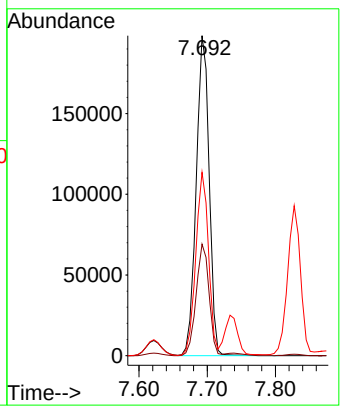


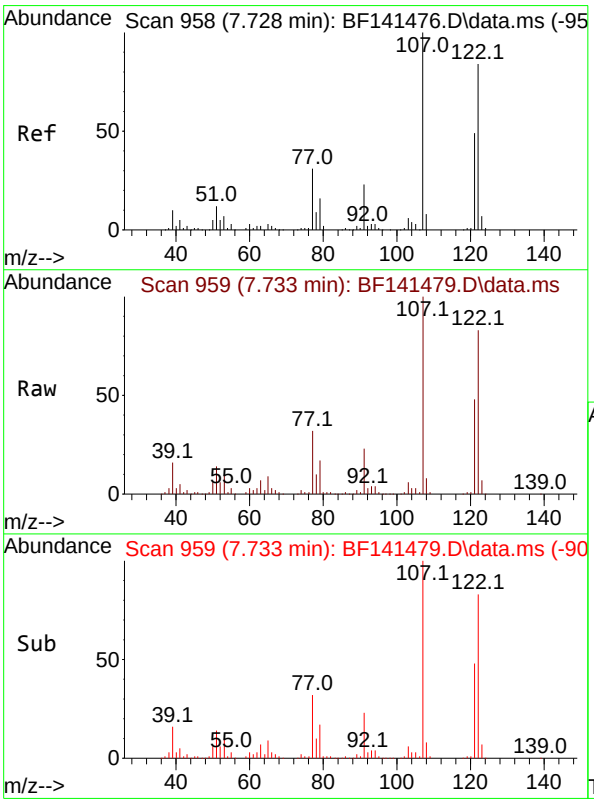
#26
2-Nitrophenol
Concen: 82.350 ng
RT: 7.692 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:139 Resp: 261386

Ion	Ratio	Lower	Upper
139	100		
109	34.9	27.0	40.6
65	57.3	47.1	70.7

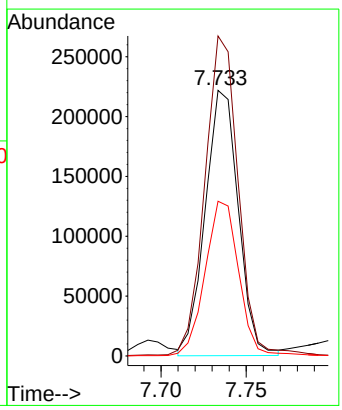


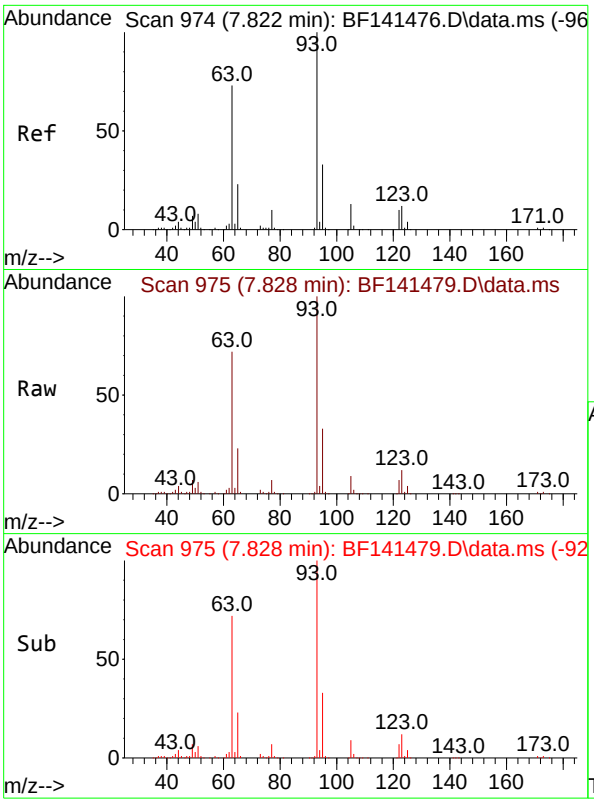


#27
2,4-Dimethylphenol
Concen: 80.915 ng
RT: 7.733 min Scan# 959
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:122 Resp: 300036

Ion	Ratio	Lower	Upper
122	100		
107	120.5	94.3	141.5
121	58.3	46.0	69.0



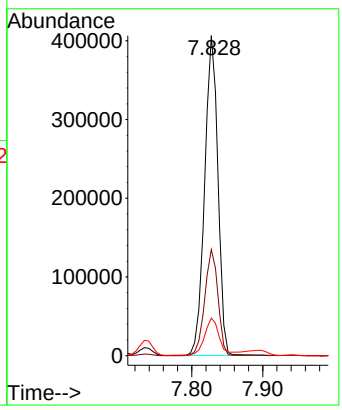


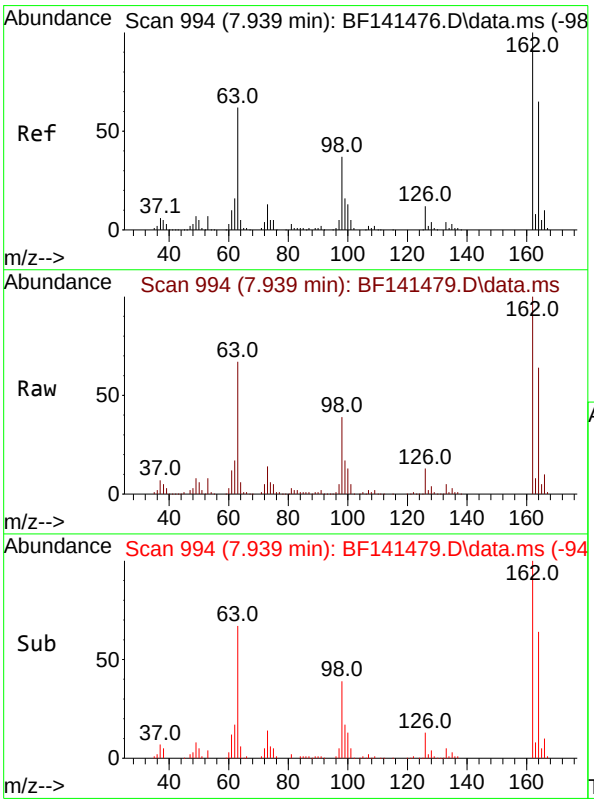
#28
bis(2-Chloroethoxy)methane
Concen: 79.203 ng
RT: 7.828 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 529442

Ion	Ratio	Lower	Upper
93	100		
95	33.2	26.1	39.1
123	11.8	9.5	14.3

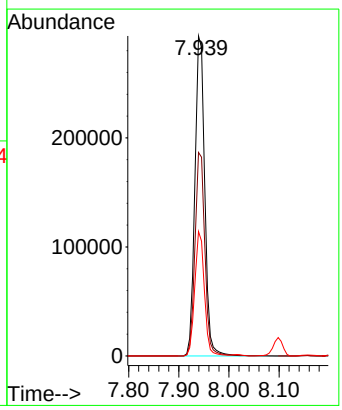


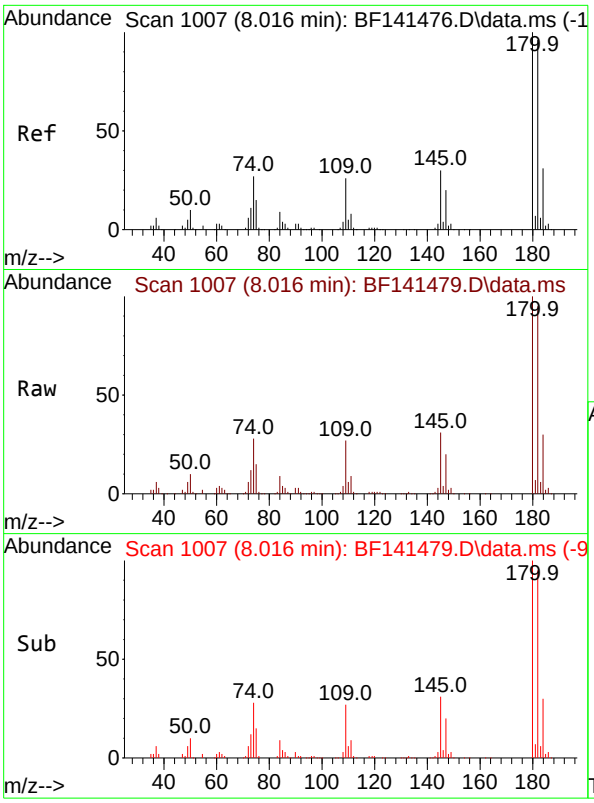


#29
2,4-Dichlorophenol
Concen: 79.645 ng
RT: 7.939 min Scan# 994
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:162 Resp: 399027

Ion	Ratio	Lower	Upper
162	100		
164	63.6	44.6	84.6
98	38.9	17.2	57.2



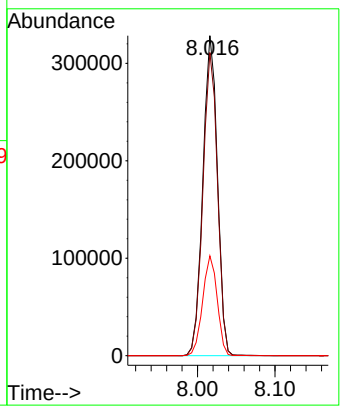


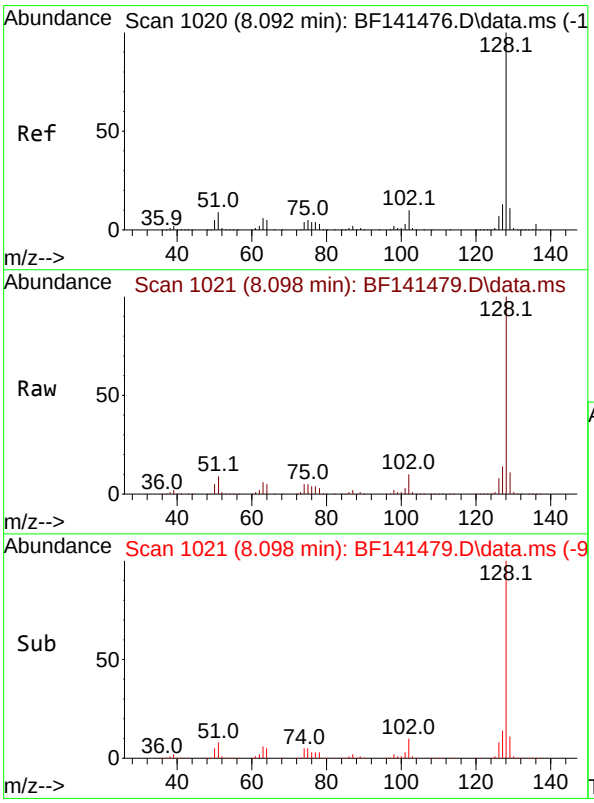
#30
1,2,4-Trichlorobenzene
Concen: 78.568 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:180 Resp: 428656

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.8	115.2
145	31.2	24.2	36.4

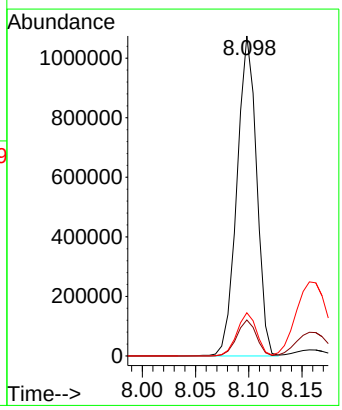


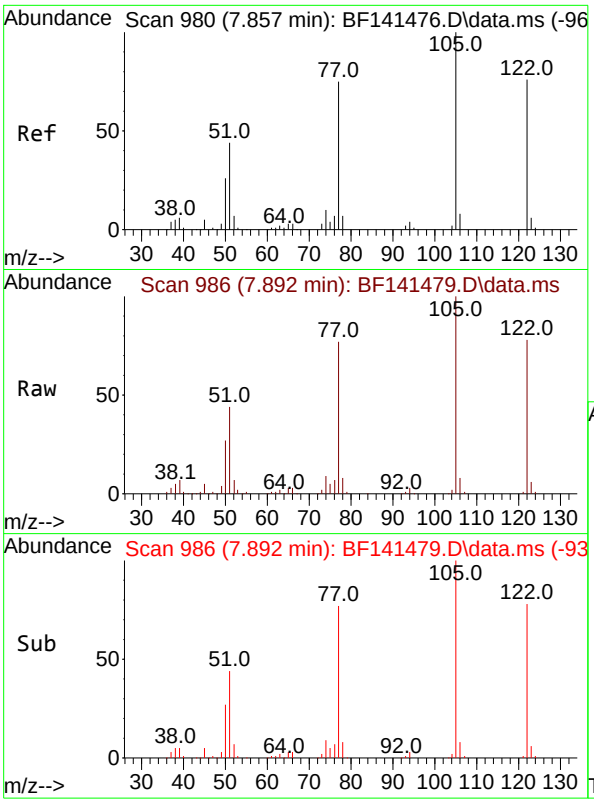


#31
Naphthalene
Concen: 77.769 ng
RT: 8.098 min Scan# 1021
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:128 Resp: 1381453

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.5	10.7	16.1



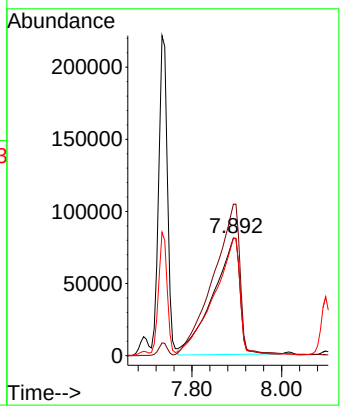


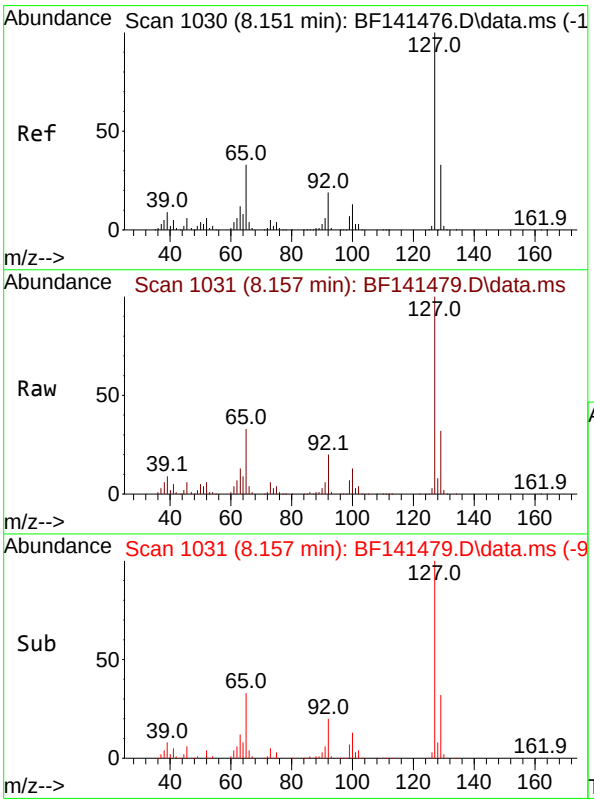
#32
Benzoic acid
Concen: 87.086 ng
RT: 7.892 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 335418

Ion	Ratio	Lower	Upper
122	100		
105	128.7	106.5	146.5
77	99.4	76.3	116.3

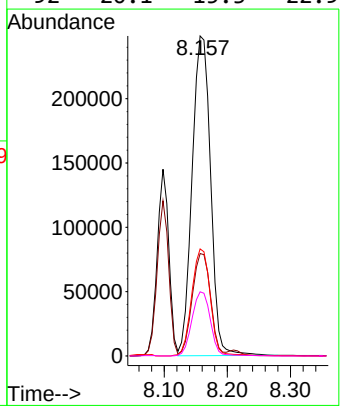


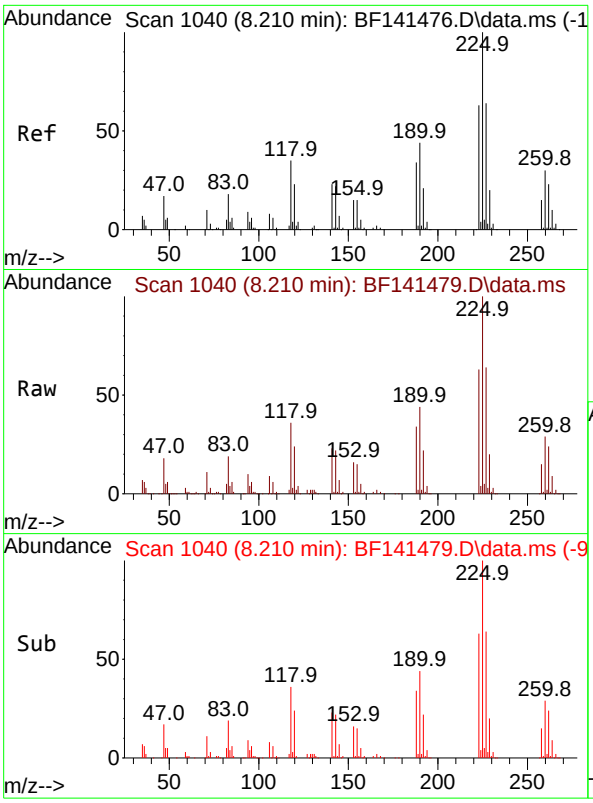


#33
4-Chloroaniline
Concen: 81.400 ng
RT: 8.157 min Scan# 1031
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:127 Resp: 504834

Ion	Ratio	Lower	Upper
127	100		
129	32.0	26.5	39.7
65	33.5	26.4	39.6
92	20.1	15.3	22.9



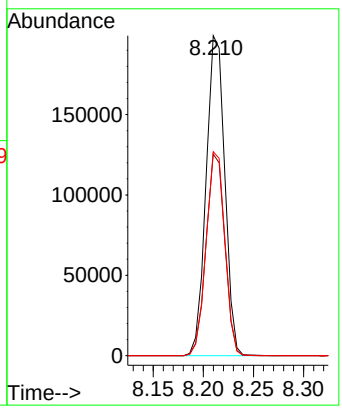


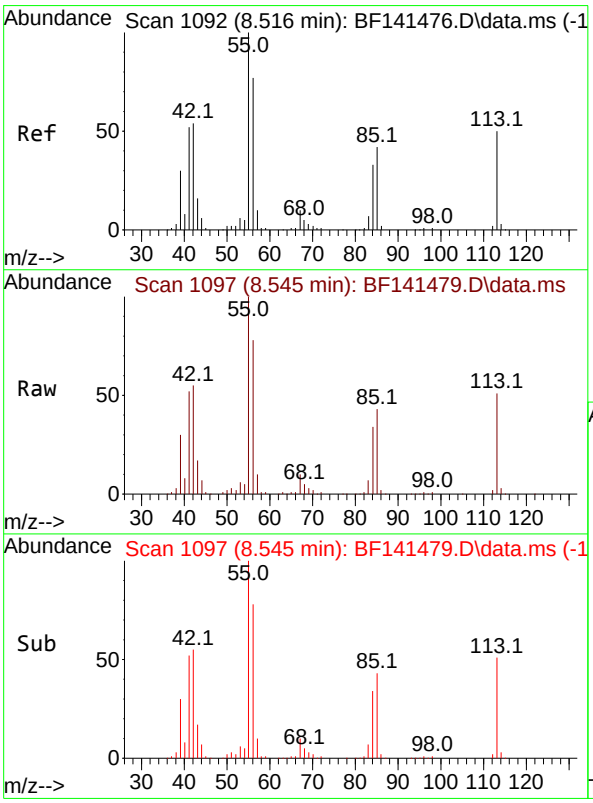
#34
Hexachlorobutadiene
Concen: 78.628 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:225 Resp: 257532

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.1	75.1
227	63.8	51.0	76.6

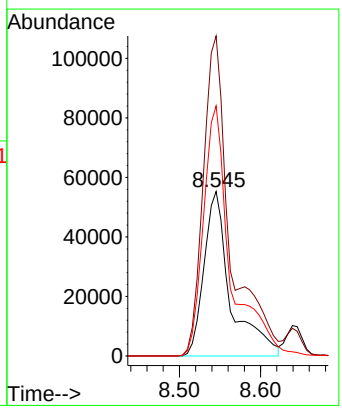


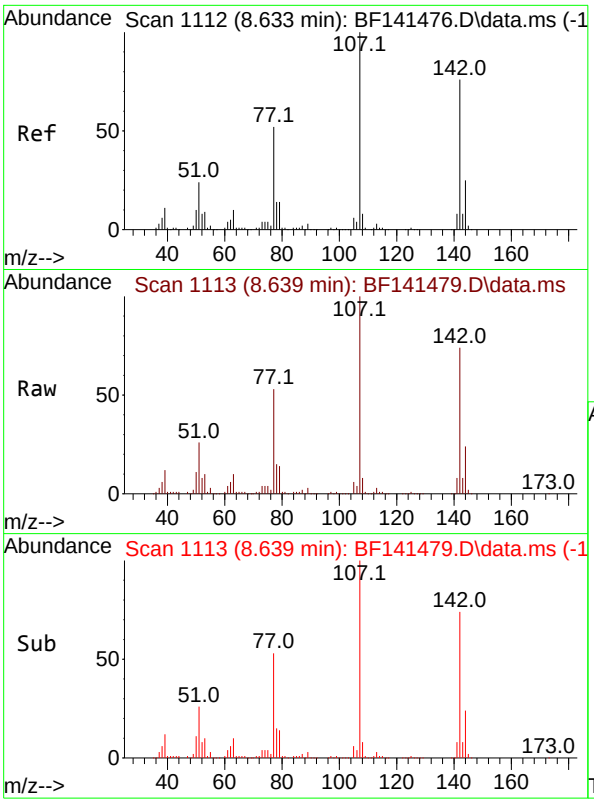


#35
Caprolactam
Concen: 82.350 ng
RT: 8.545 min Scan# 1097
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:113 Resp: 125619

Ion	Ratio	Lower	Upper
113	100		
55	194.6	180.8	220.8
56	152.1	133.6	173.6



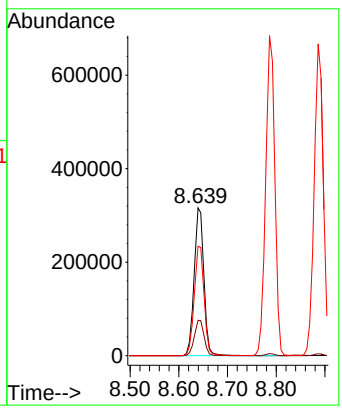


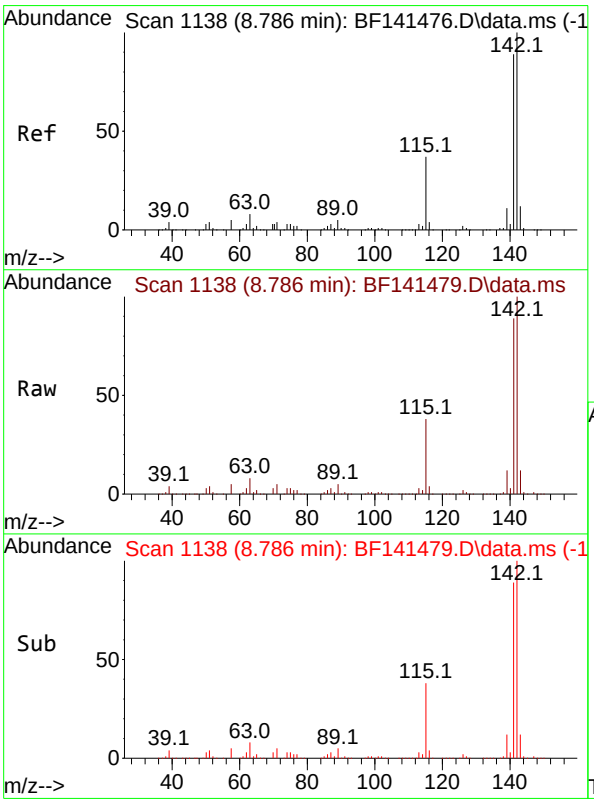
#36
4-Chloro-3-methylphenol
Concen: 79.630 ng
RT: 8.639 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 441925

Ion	Ratio	Lower	Upper
107	100		
144	23.9	19.7	29.5
142	74.0	60.8	91.2

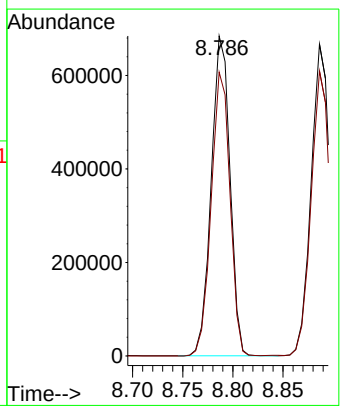


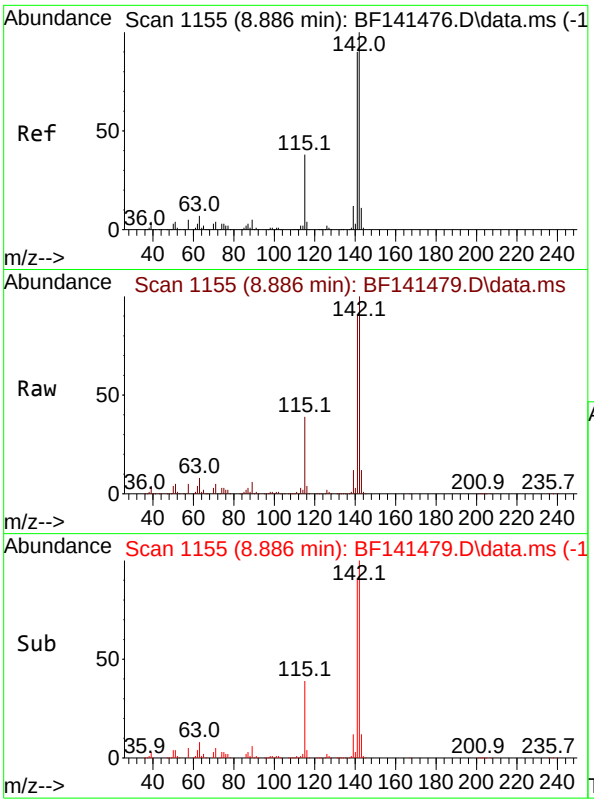


#37
2-Methylnaphthalene
Concen: 76.975 ng
RT: 8.786 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:142 Resp: 889774

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.2	106.8



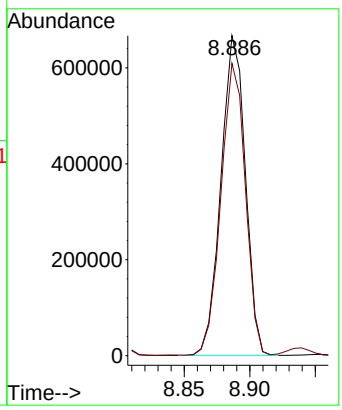


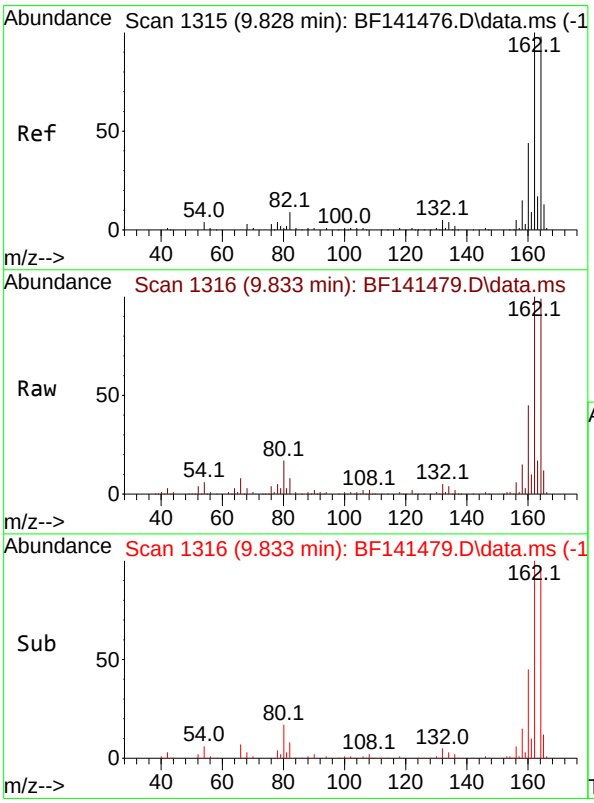
#38
1-Methylnaphthalene
Concen: 76.983 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 861860

Ion	Ratio	Lower	Upper
142	100		
141	91.3	72.1	108.1

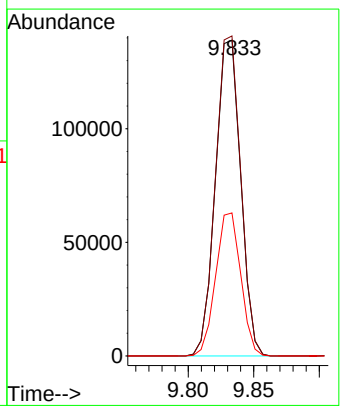


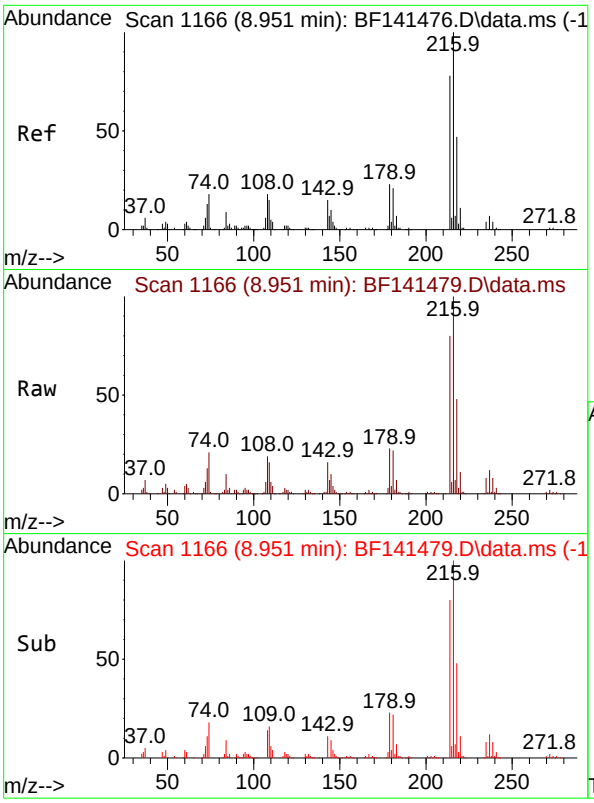


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:164 Resp: 186230

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.3	121.9
160	45.3	35.9	53.9



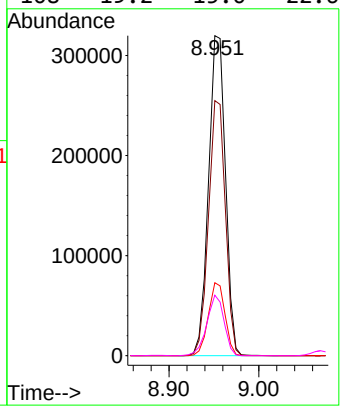


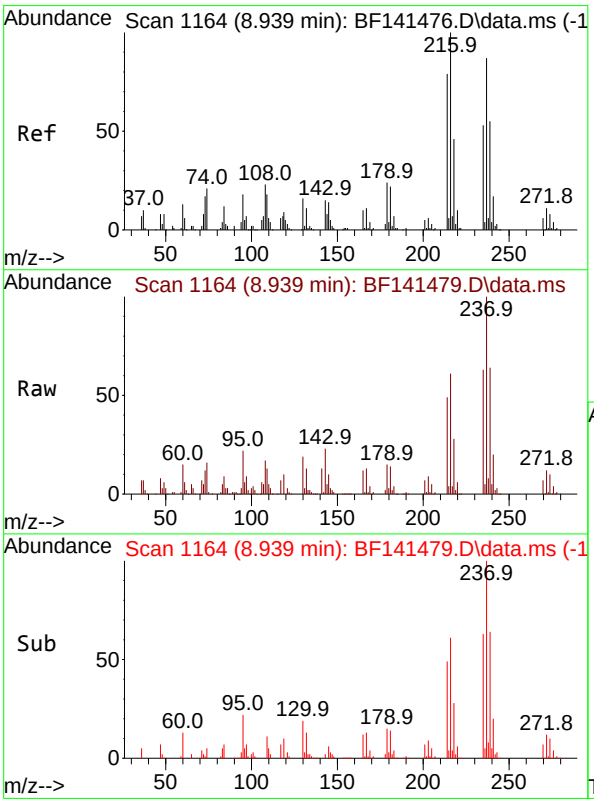
#40
1,2,4,5-Tetrachlorobenzene
Concen: 77.689 ng
RT: 8.951 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:216 Resp: 418579

Ion	Ratio	Lower	Upper
216	100		
214	79.6	62.3	93.5
179	22.4	18.0	27.0
108	19.2	15.0	22.6

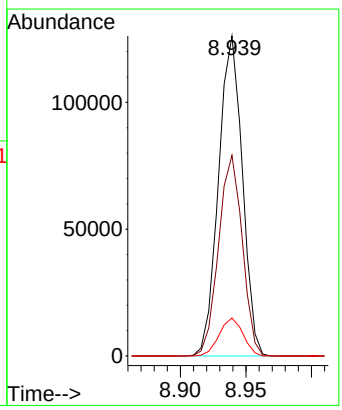


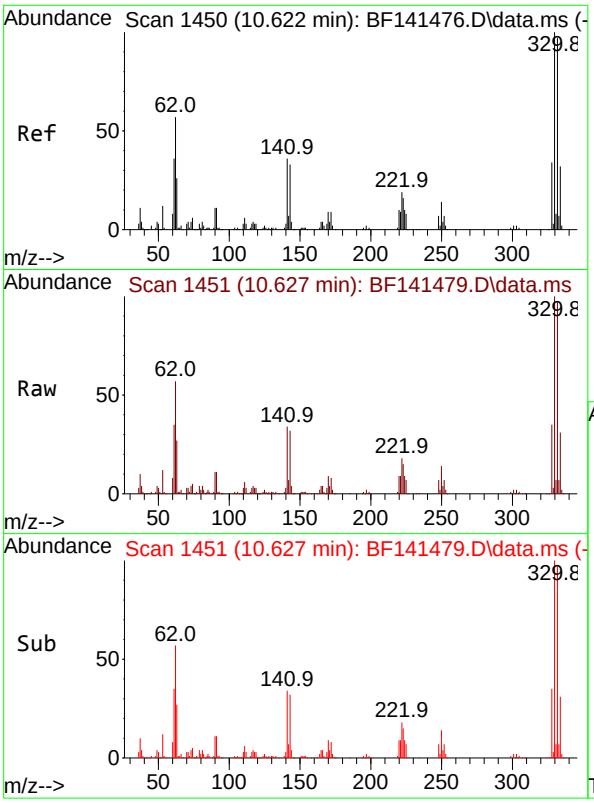


#41
Hexachlorocyclopentadiene
Concen: 88.965 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:237 Resp: 159430

Ion	Ratio	Lower	Upper
237	100		
235	62.7	41.4	81.4
272	11.9	0.0	32.4



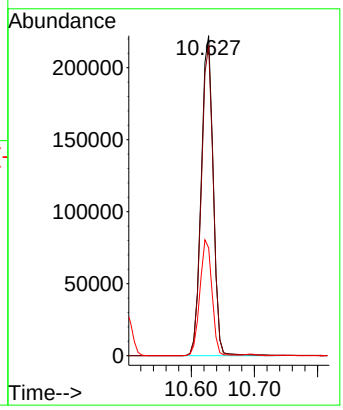


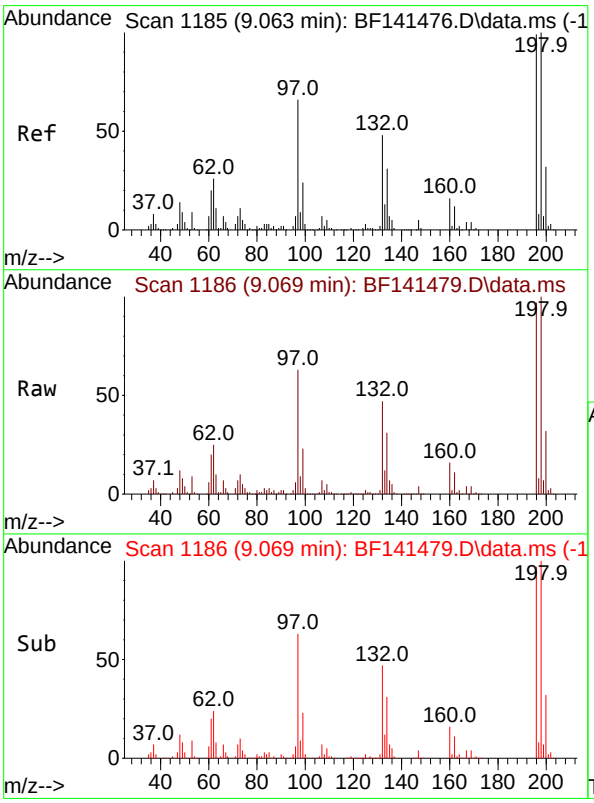
#42
2,4,6-Tribromophenol
Concen: 156.058 ng
RT: 10.627 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:330 Resp: 291947

Ion	Ratio	Lower	Upper
330	100		
332	97.2	78.5	117.7
141	36.6	31.0	46.4

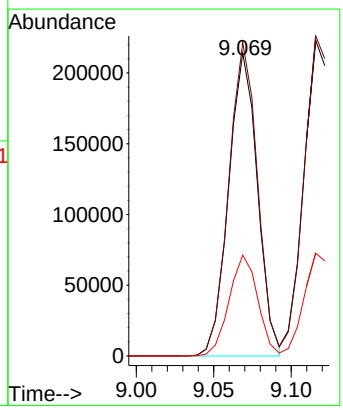


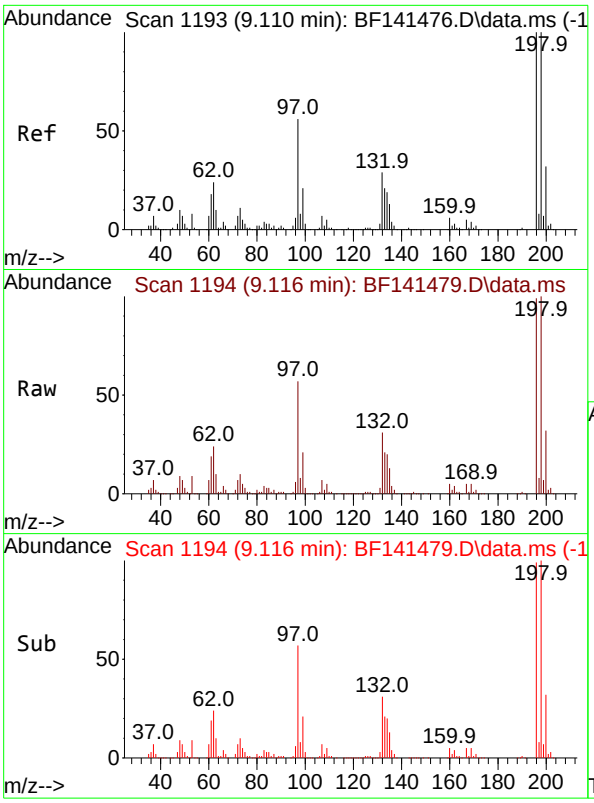


#43
2,4,6-Trichlorophenol
Concen: 79.591 ng
RT: 9.069 min Scan# 1186
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:196 Resp: 277156

Ion	Ratio	Lower	Upper
196	100		
198	103.5	80.6	121.0
200	33.3	25.5	38.3



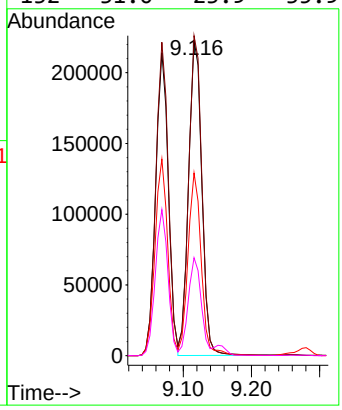


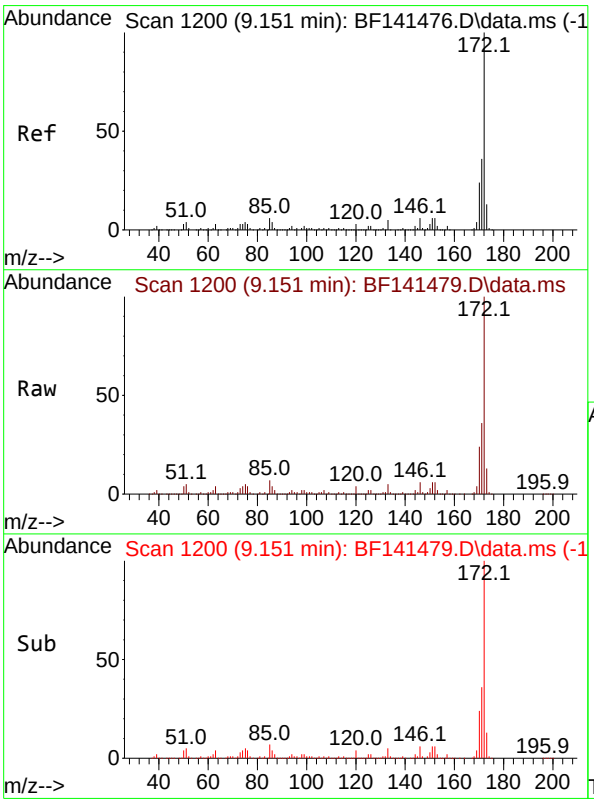
#44
2,4,5-Trichlorophenol
Concen: 79.189 ng
RT: 9.116 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 298856

Ion	Ratio	Lower	Upper
196	100		
198	101.4	79.8	119.8
97	57.9	44.8	67.2
132	31.0	23.9	35.9

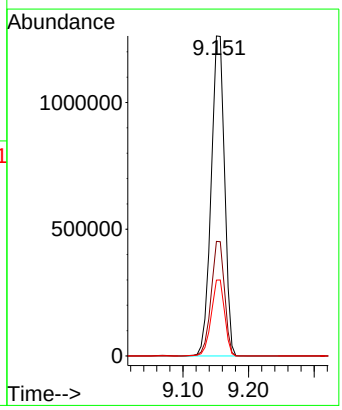


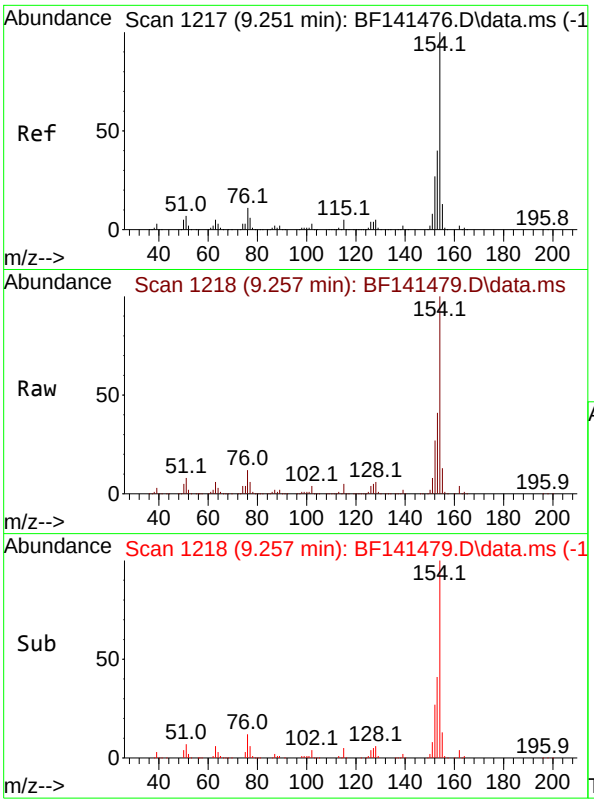


#45
2-Fluorobiphenyl
Concen: 148.066 ng
RT: 9.151 min Scan# 1200
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:172 Resp: 1789795

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.7	43.1
170	23.7	18.9	28.3



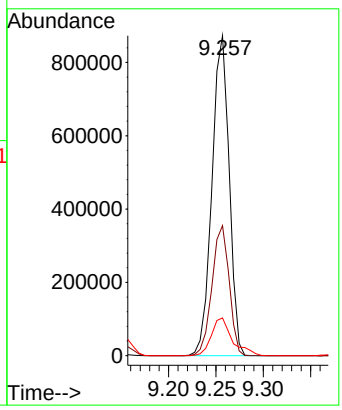


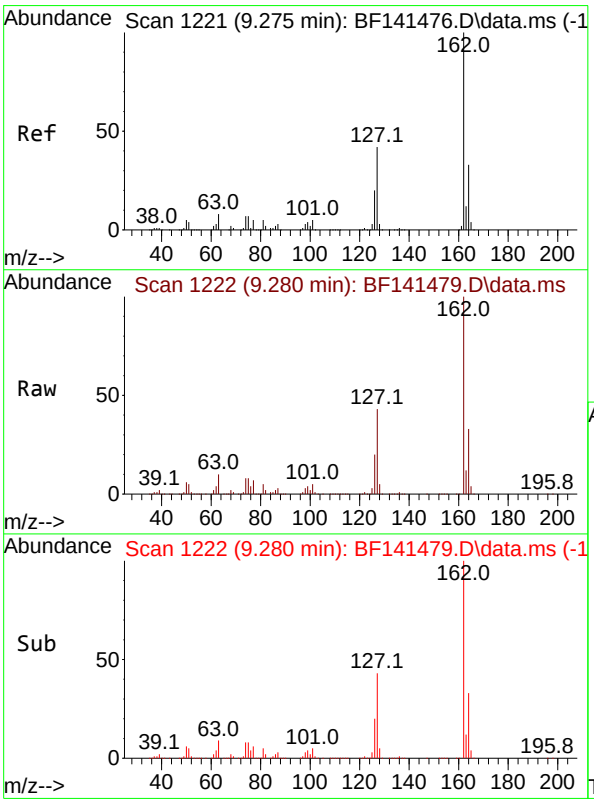
#46
1,1'-Biphenyl
Concen: 76.237 ng
RT: 9.257 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:154 Resp: 1100720

Ion	Ratio	Lower	Upper
154	100		
153	40.7	20.4	60.4
76	11.8	0.0	30.8

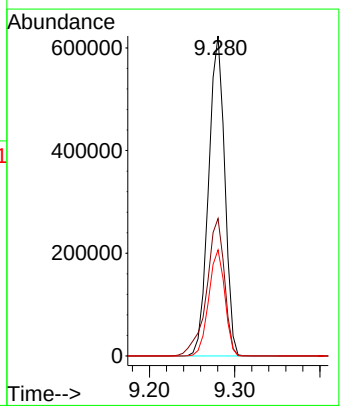


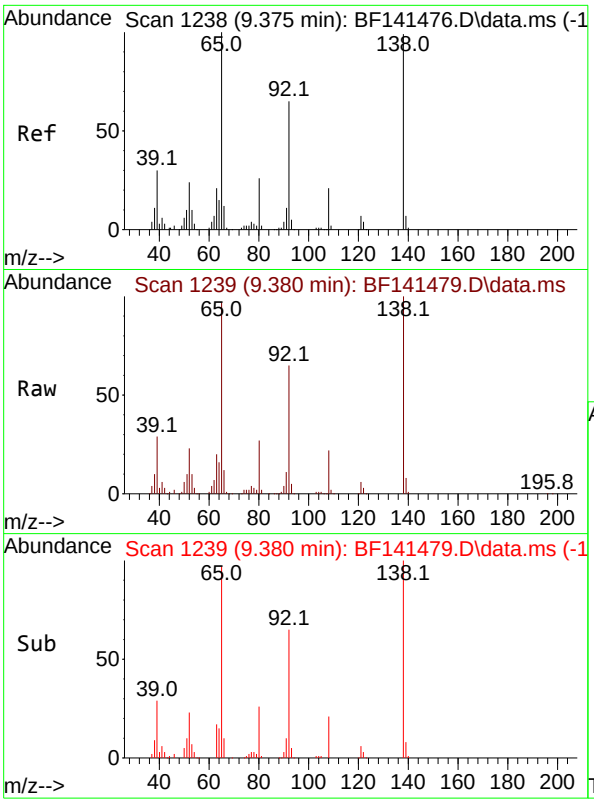


#47
2-Chloronaphthalene
Concen: 76.929 ng
RT: 9.280 min Scan# 1222
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:162 Resp: 821334

Ion	Ratio	Lower	Upper
162	100		
127	43.0	34.1	51.1
164	33.2	26.3	39.5



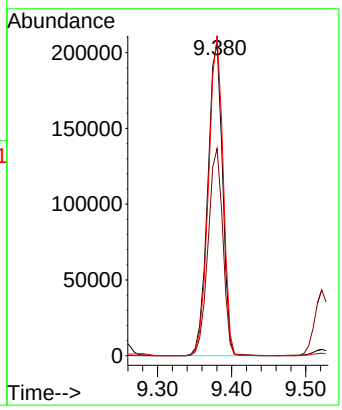


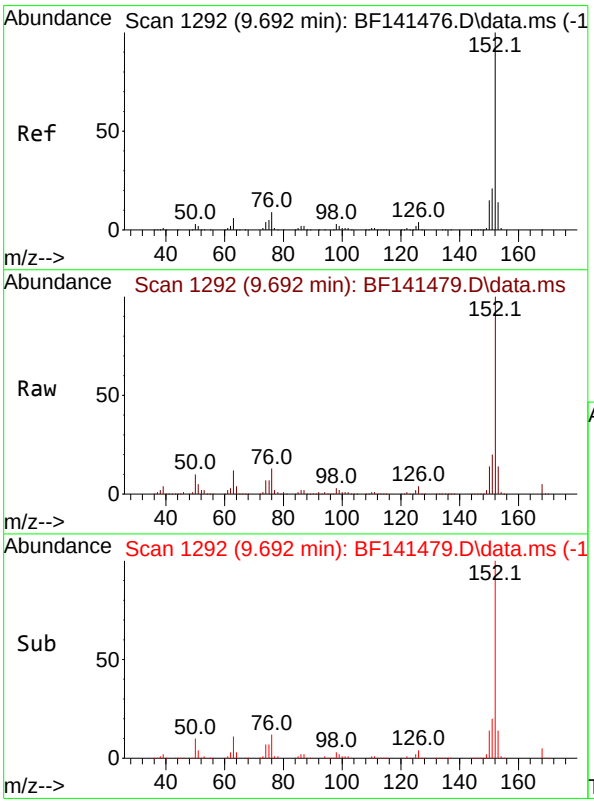
#48
2-Nitroaniline
Concen: 79.969 ng
RT: 9.380 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 65 Resp: 286532

Ion	Ratio	Lower	Upper
65	100		
92	66.4	52.2	78.2
138	102.6	79.5	119.3

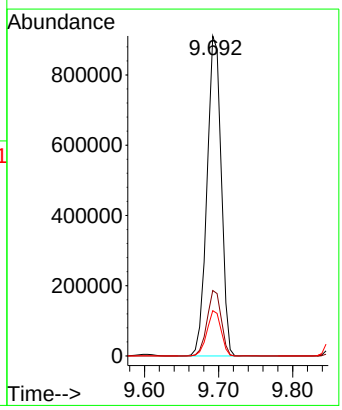


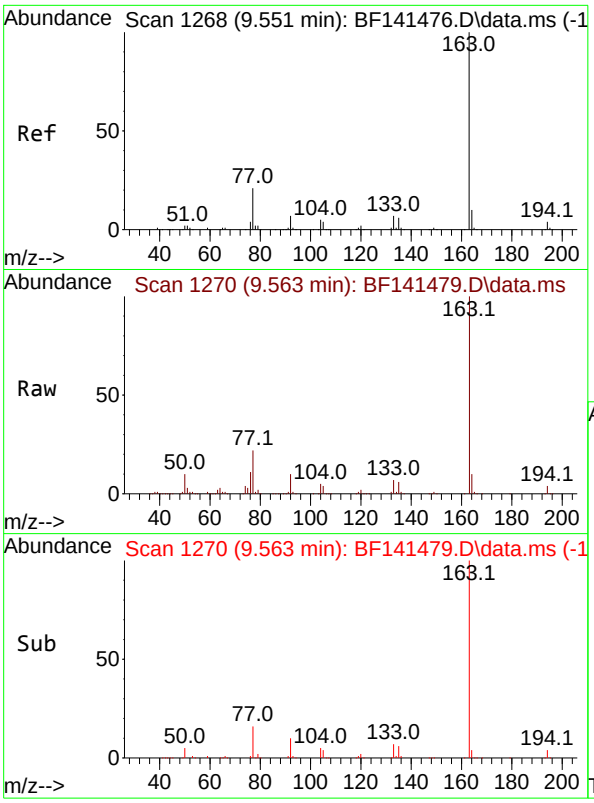


#49
Acenaphthylene
Concen: 76.291 ng
RT: 9.692 min Scan# 1292
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:152 Resp: 1211515

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.4	24.6
153	14.1	10.9	16.3



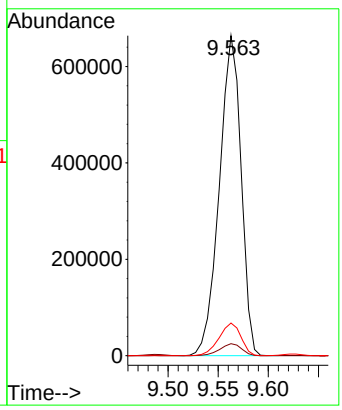


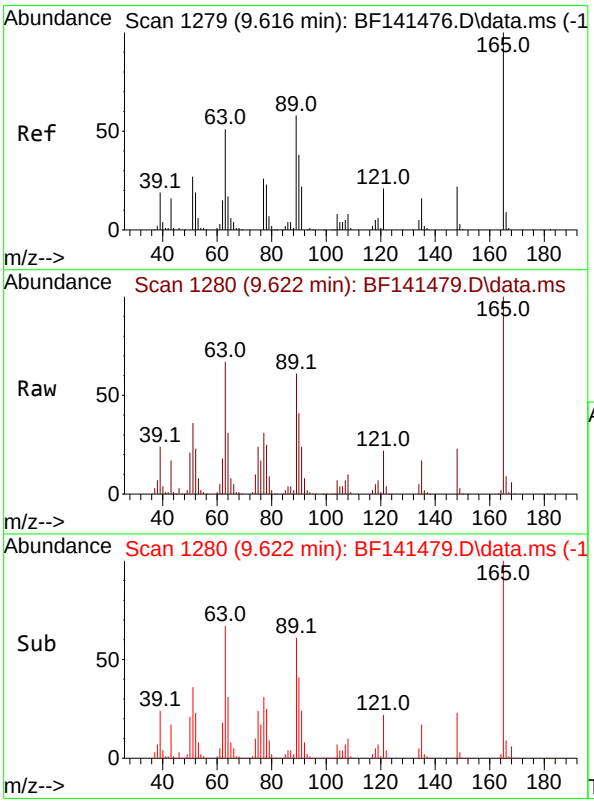
#50
Dimethylphthalate
Concen: 79.265 ng
RT: 9.563 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:163 Resp: 1002121

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.2	7.9	11.9

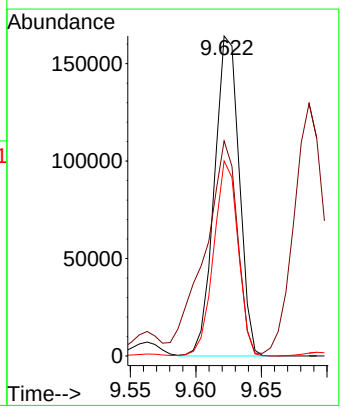


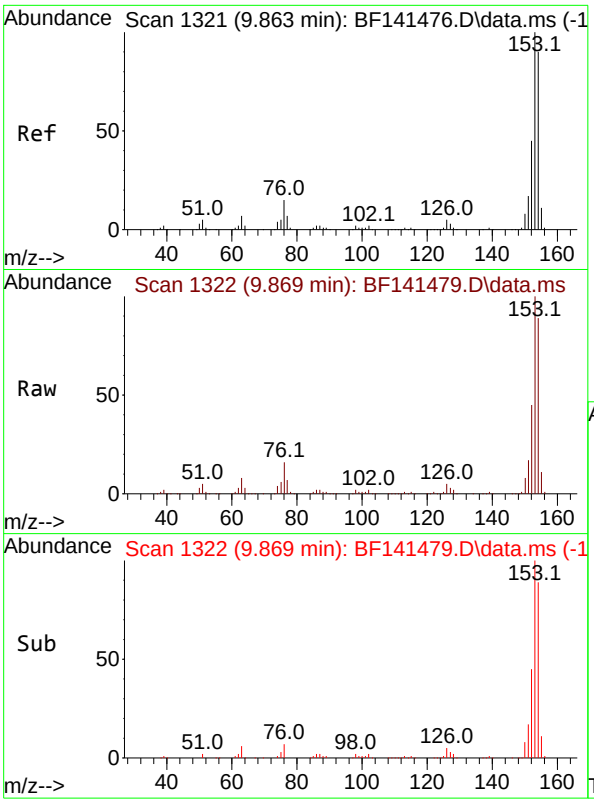


#51
2,6-Dinitrotoluene
Concen: 78.101 ng
RT: 9.622 min Scan# 1280
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:165 Resp: 215853

Ion	Ratio	Lower	Upper
165	100		
63	67.2	49.4	74.0
89	60.9	46.5	69.7



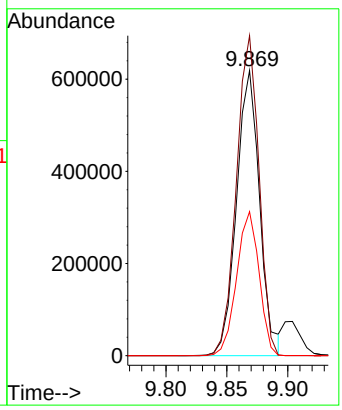


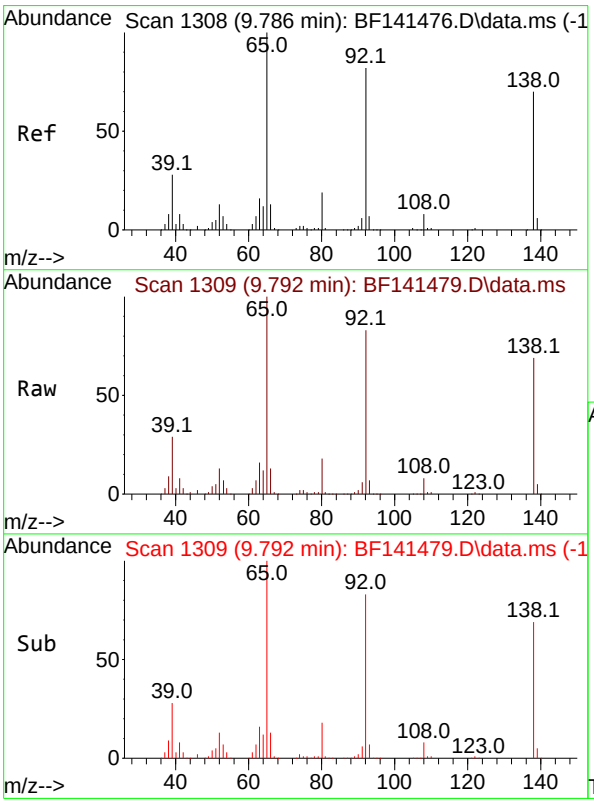
#52
Acenaphthene
Concen: 76.791 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:154 Resp: 819818

Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.2	133.8
152	50.5	39.8	59.8

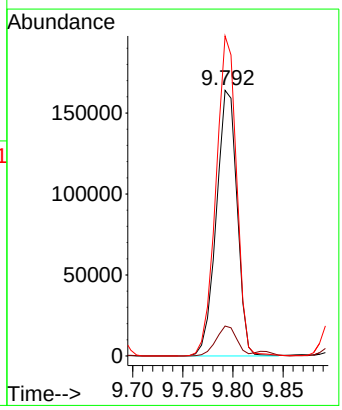


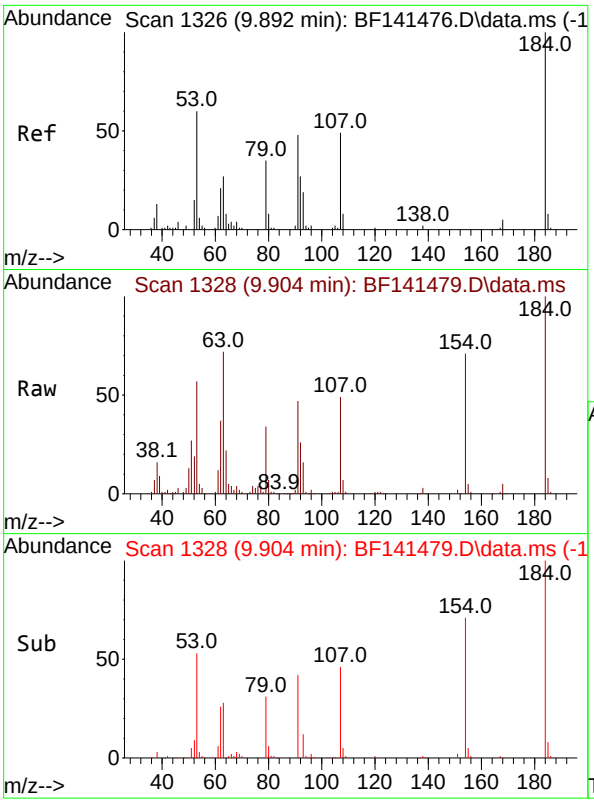


#53
3-Nitroaniline
Concen: 79.173 ng
RT: 9.792 min Scan# 1309
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:138 Resp: 235511

Ion	Ratio	Lower	Upper
138	100		
108	11.3	9.0	13.4
92	120.4	93.7	140.5



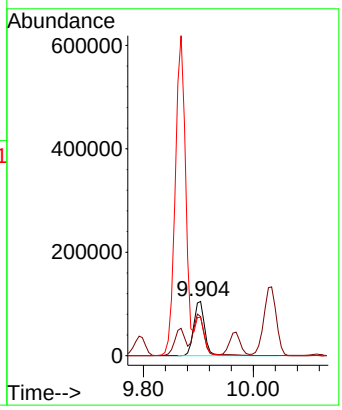


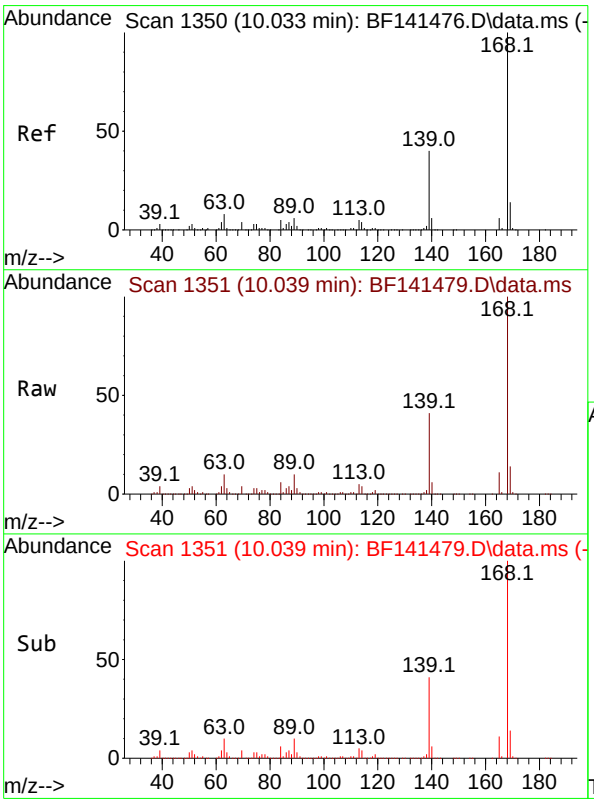
#54
2,4-Dinitrophenol
Concen: 89.960 ng
RT: 9.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 147768

Ion	Ratio	Lower	Upper
184	100		
63	72.1	61.0	91.6
154	70.8	59.9	89.9

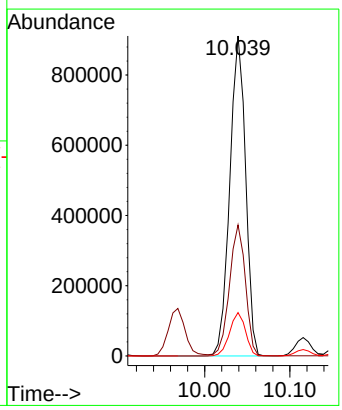


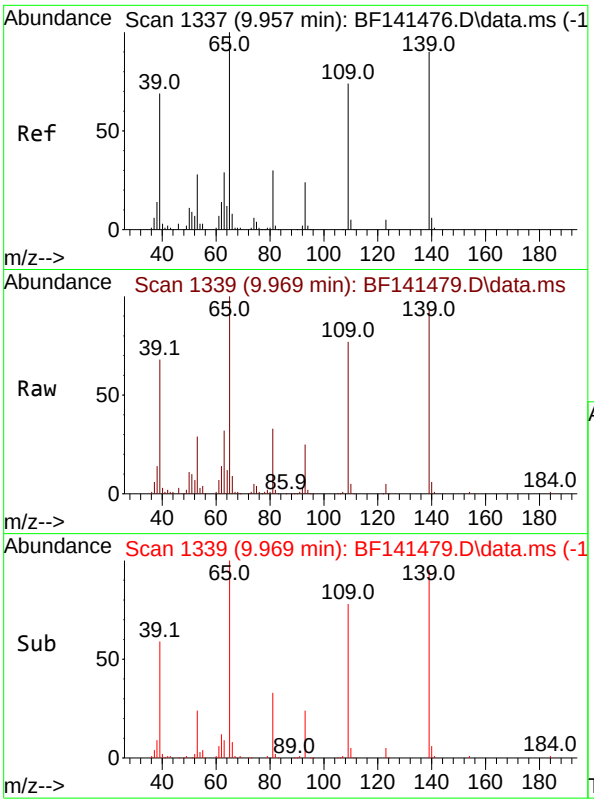


#55
Dibenzofuran
Concen: 74.928 ng
RT: 10.039 min Scan# 1351
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:168 Resp: 1174157

Ion	Ratio	Lower	Upper
168	100		
139	40.9	32.7	49.1
169	13.6	10.8	16.2



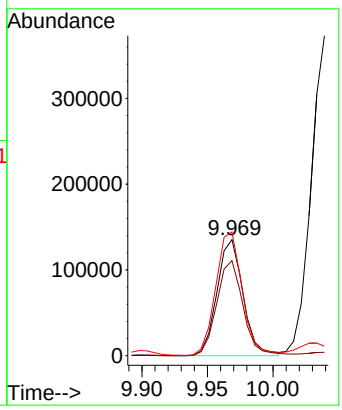


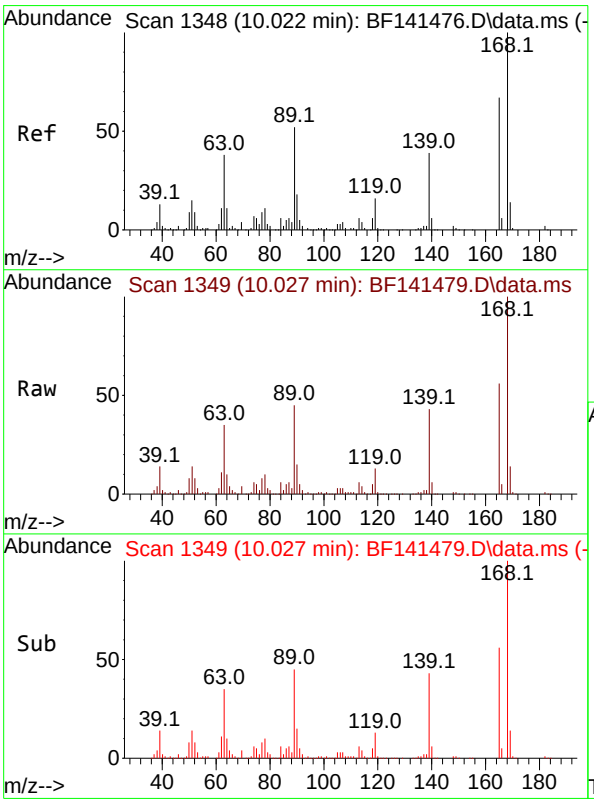
#56
4-Nitrophenol
Concen: 84.744 ng
RT: 9.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:139 Resp: 187131

Ion	Ratio	Lower	Upper
139	100		
109	81.9	62.0	102.0
65	106.7	91.2	131.2

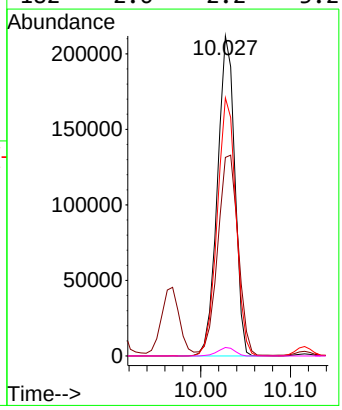


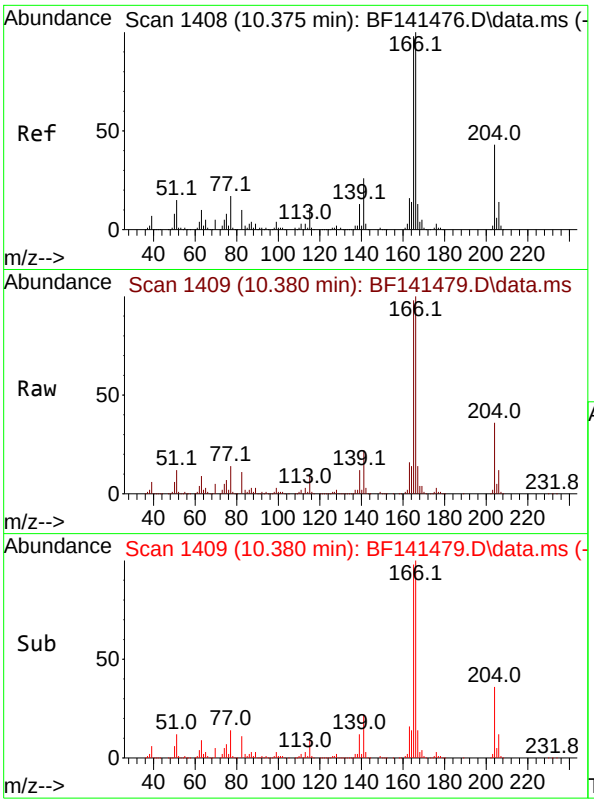


#57
2,4-Dinitrotoluene
Concen: 77.449 ng
RT: 10.027 min Scan# 1349
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:165 Resp: 284954

Ion	Ratio	Lower	Upper
165	100		
63	62.1	46.4	69.6
89	80.7	61.8	92.6
182	2.6	2.2	3.2



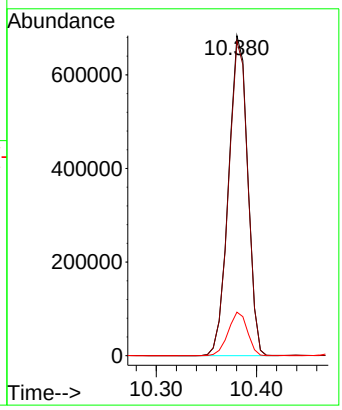


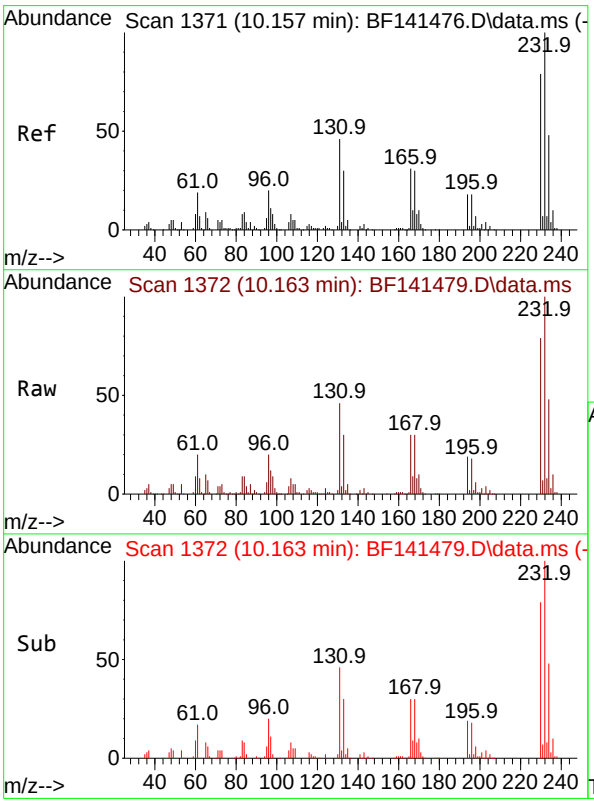
#58
Fluorene
Concen: 75.080 ng
RT: 10.380 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:166 Resp: 909704

Ion	Ratio	Lower	Upper
166	100		
165	98.3	78.2	117.2
167	13.6	10.7	16.1

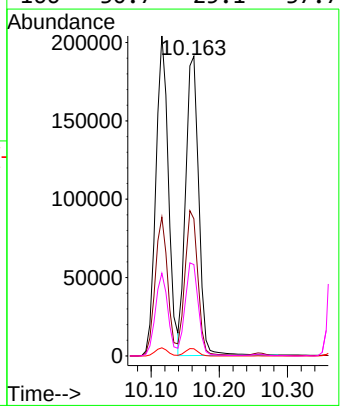


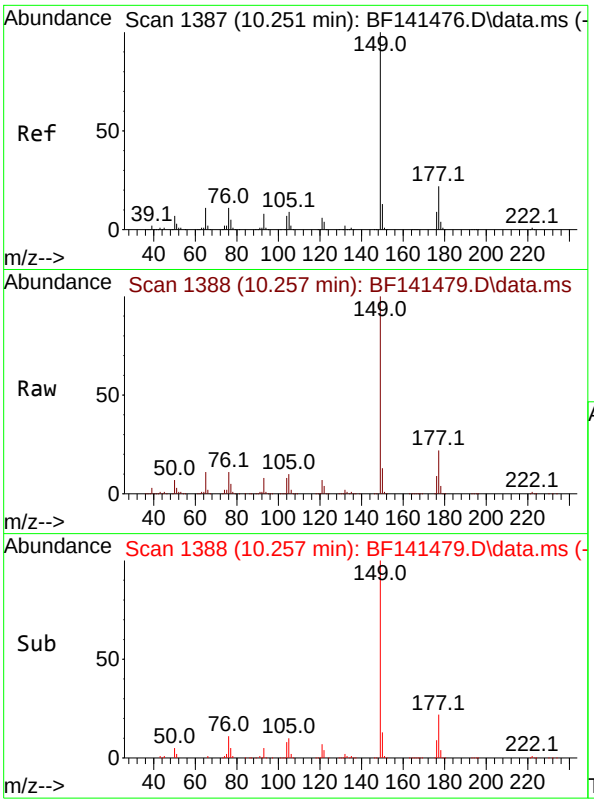


#59
2,3,4,6-Tetrachlorophenol
Concen: 78.006 ng
RT: 10.163 min Scan# 1372
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:232 Resp: 253454

Ion	Ratio	Lower	Upper
232	100		
131	47.1	39.2	58.8
130	2.4	2.1	3.1
166	30.7	25.1	37.7



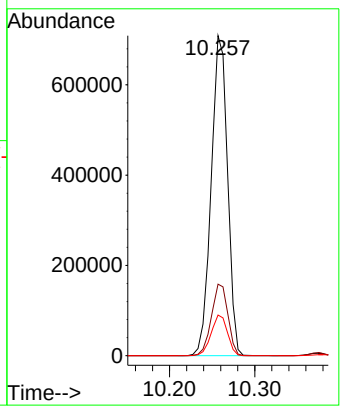


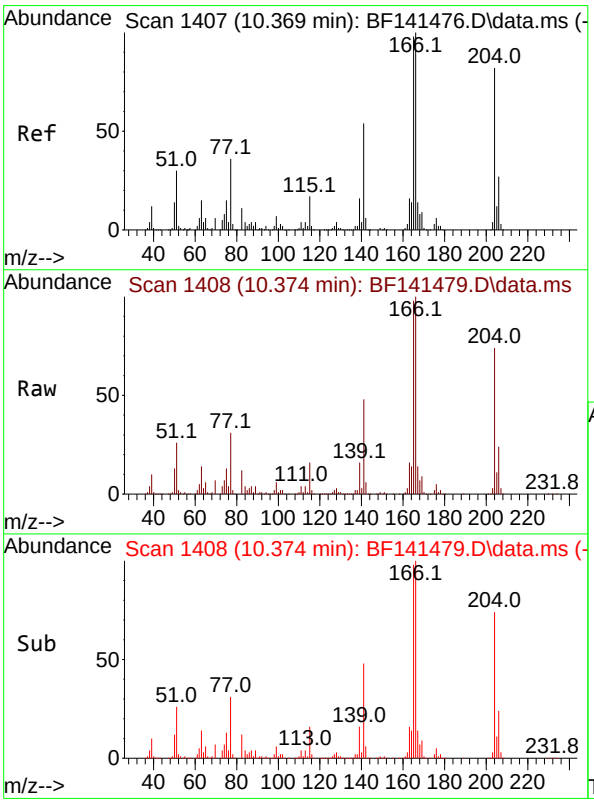
#60
Diethylphthalate
Concen: 75.995 ng
RT: 10.257 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 945293

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.8	26.6
150	12.7	10.1	15.1

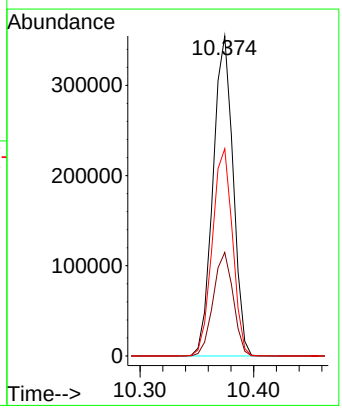


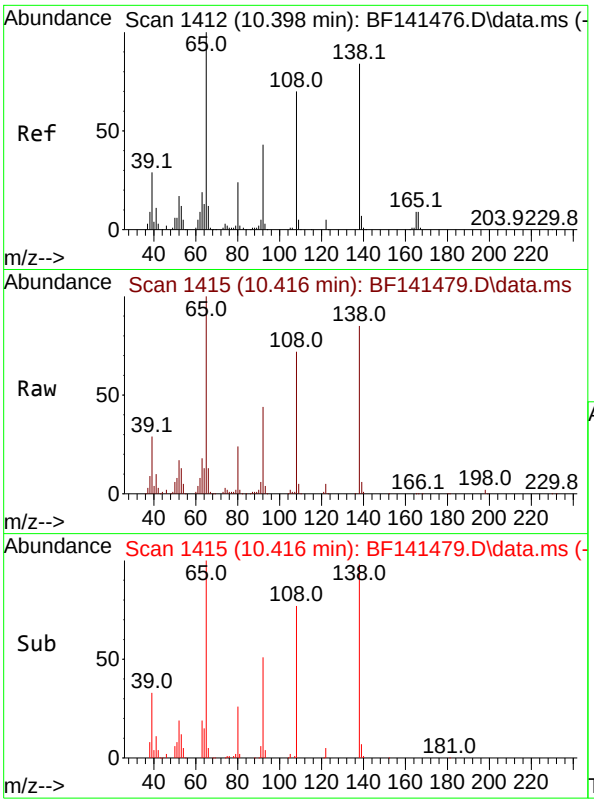


#61
4-Chlorophenyl-phenylether
Concen: 74.716 ng
RT: 10.374 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:204 Resp: 435522

Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.6	40.0
141	64.8	51.9	77.9



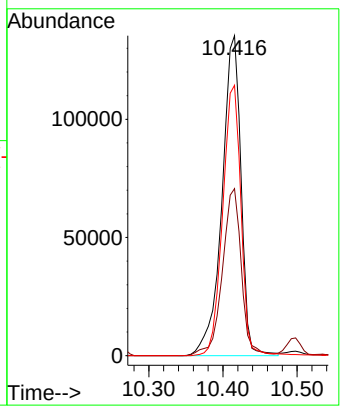


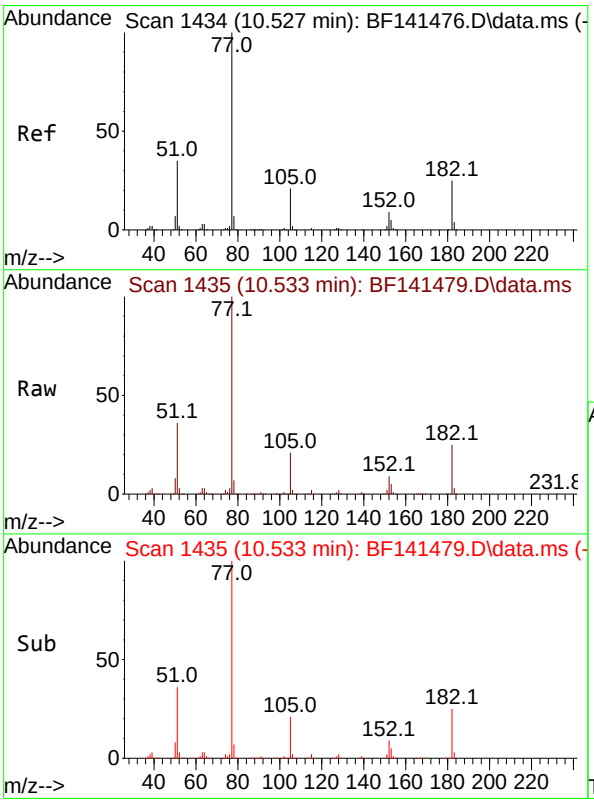
#62
4-Nitroaniline
Concen: 79.873 ng
RT: 10.416 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 241257

Ion	Ratio	Lower	Upper
138	100		
92	52.2	31.3	71.3
108	84.5	63.7	103.7

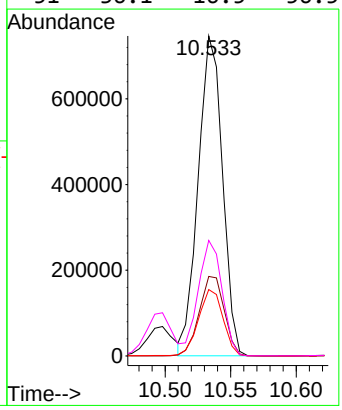


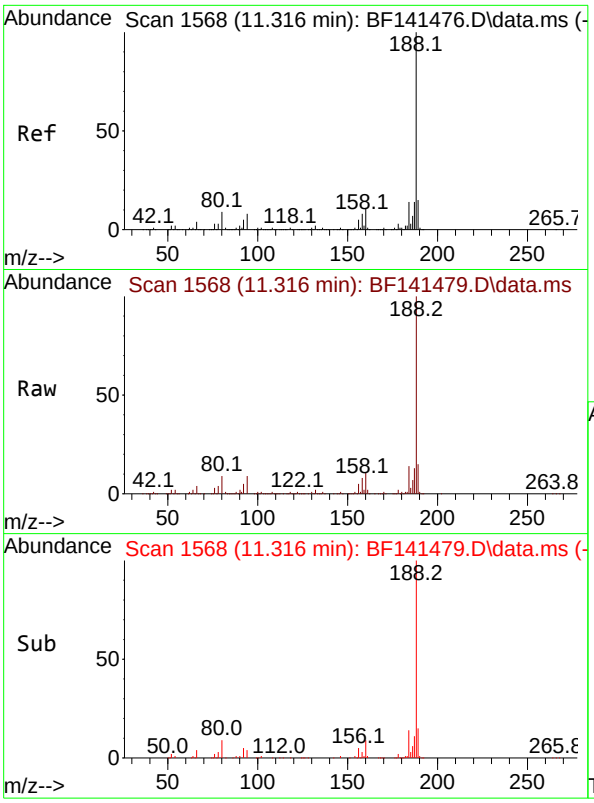


#63
Azobenzene
Concen: 77.931 ng
RT: 10.533 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 77 Resp: 963689

Ion	Ratio	Lower	Upper
77	100		
182	24.9	4.7	44.7
105	20.8	0.4	40.4
51	36.1	16.5	56.5



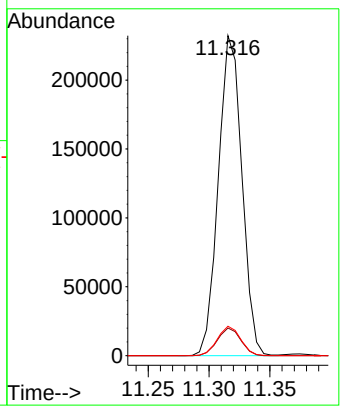


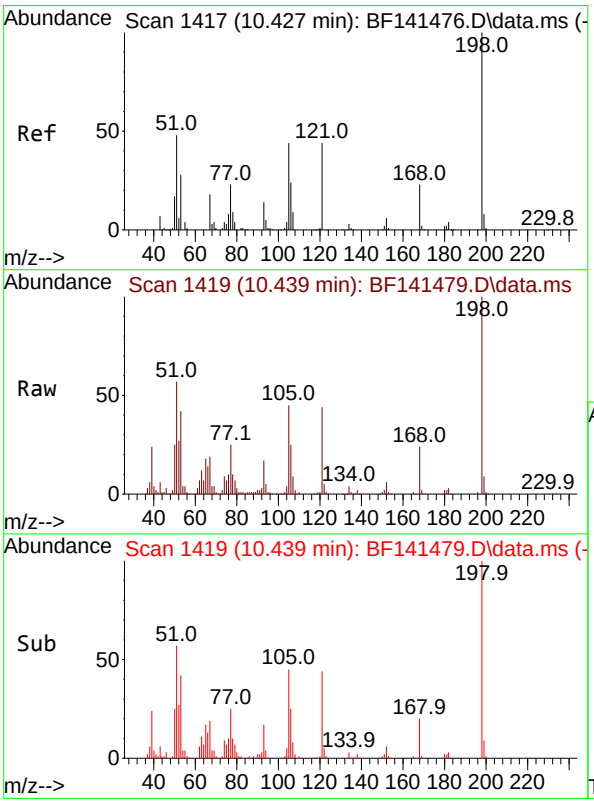
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:188 Resp: 312902

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.2	7.3	10.9

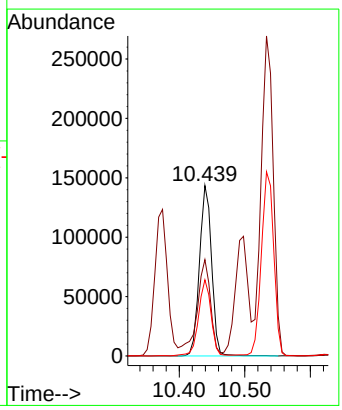


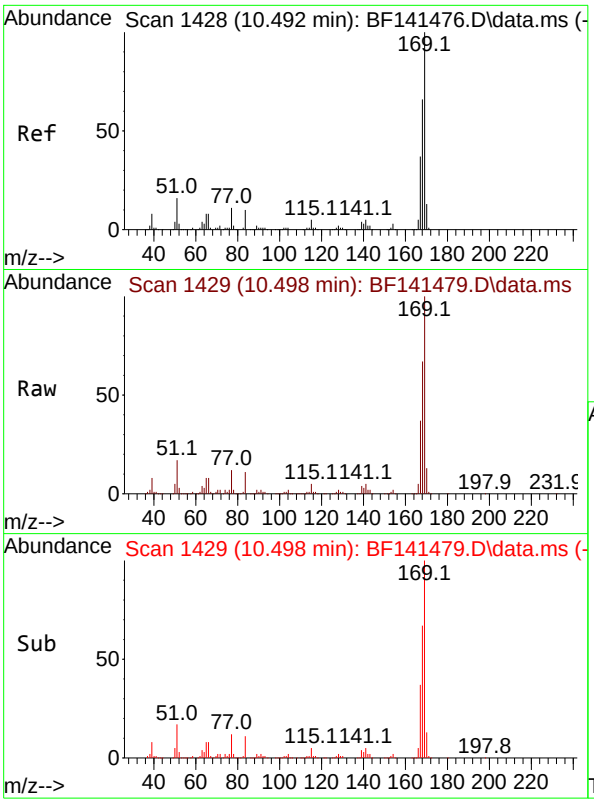


#65
4,6-Dinitro-2-methylphenol
Concen: 85.309 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:198 Resp: 185427

Ion	Ratio	Lower	Upper
198	100		
51	56.6	37.4	77.4
105	44.7	25.2	65.2



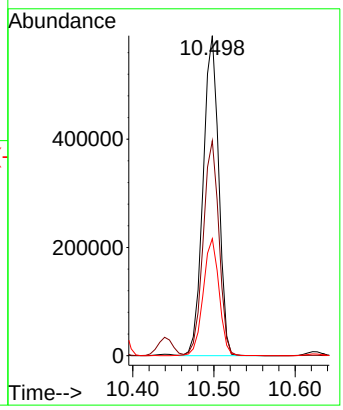


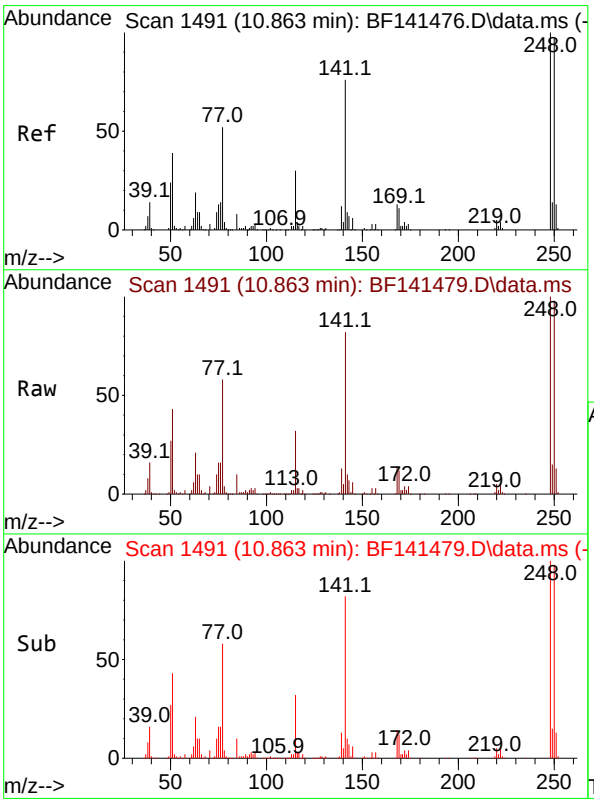
#66
n-Nitrosodiphenylamine
Concen: 78.404 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:169 Resp: 785313

Ion	Ratio	Lower	Upper
169	100		
168	67.2	53.3	79.9
167	36.6	29.4	44.2

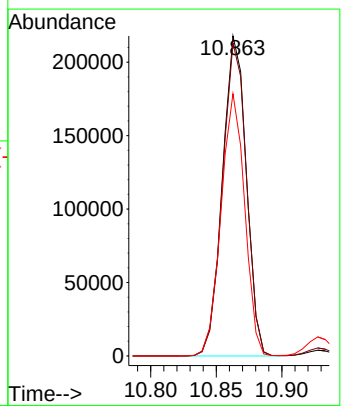


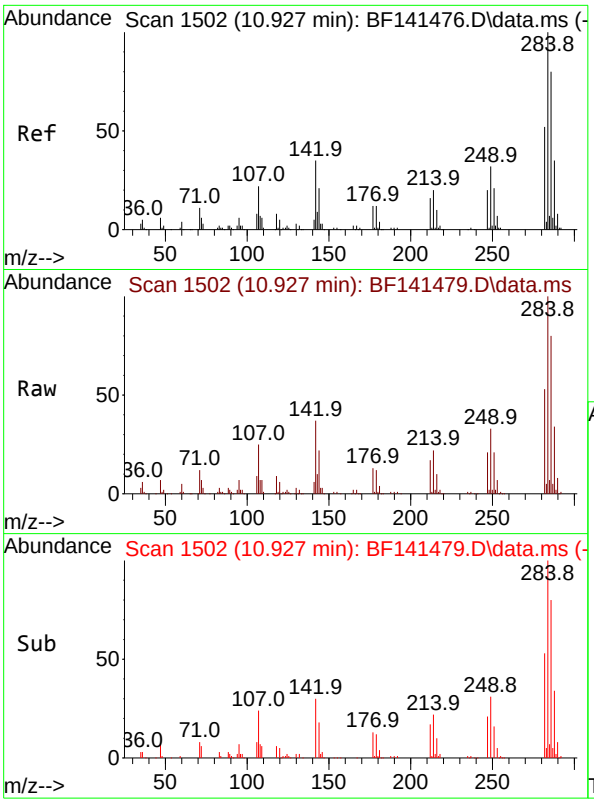


#67
4-Bromophenyl-phenylether
Concen: 78.988 ng
RT: 10.863 min Scan# 1491
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:248 Resp: 276228

Ion	Ratio	Lower	Upper
248	100		
250	97.8	77.8	116.6
141	81.9	60.6	90.8



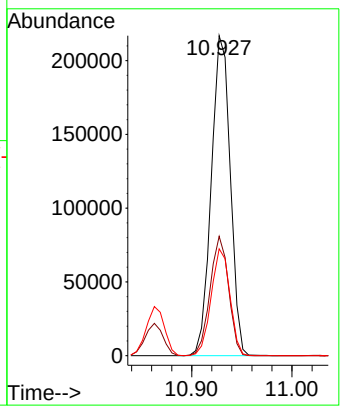


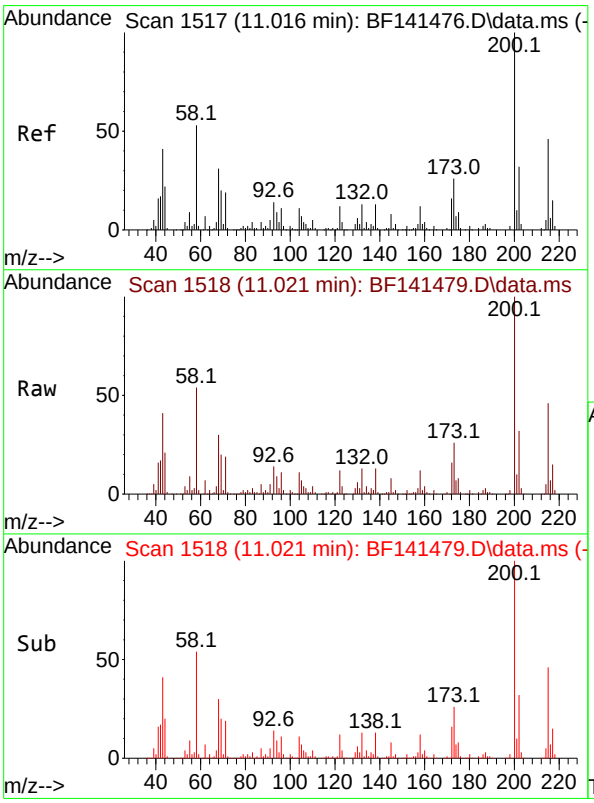
#68
Hexachlorobenzene
Concen: 79.174 ng
RT: 10.927 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:284 Resp: 285111

Ion	Ratio	Lower	Upper
284	100		
142	37.3	28.0	42.0
249	33.4	25.8	38.8

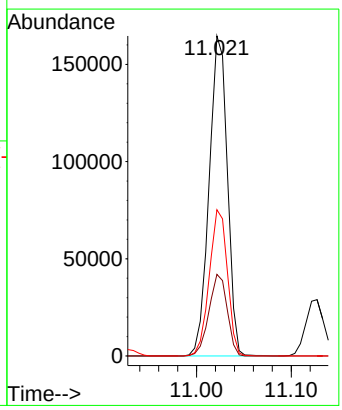


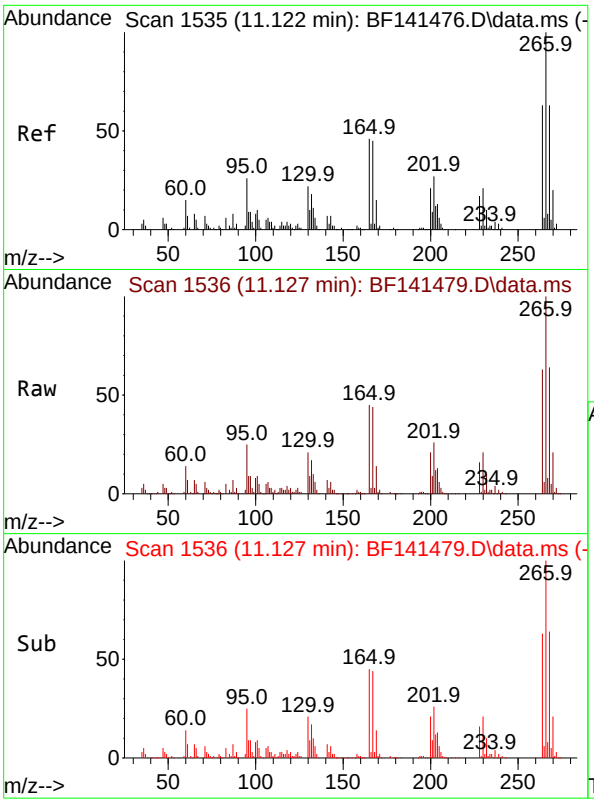


#69
Atrazine
Concen: 73.188 ng
RT: 11.021 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:200 Resp: 219923

Ion	Ratio	Lower	Upper
200	100		
173	25.5	5.9	45.9
215	45.7	25.9	65.9



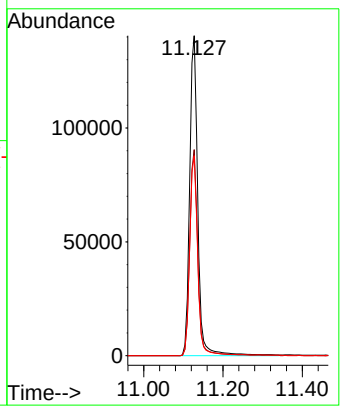


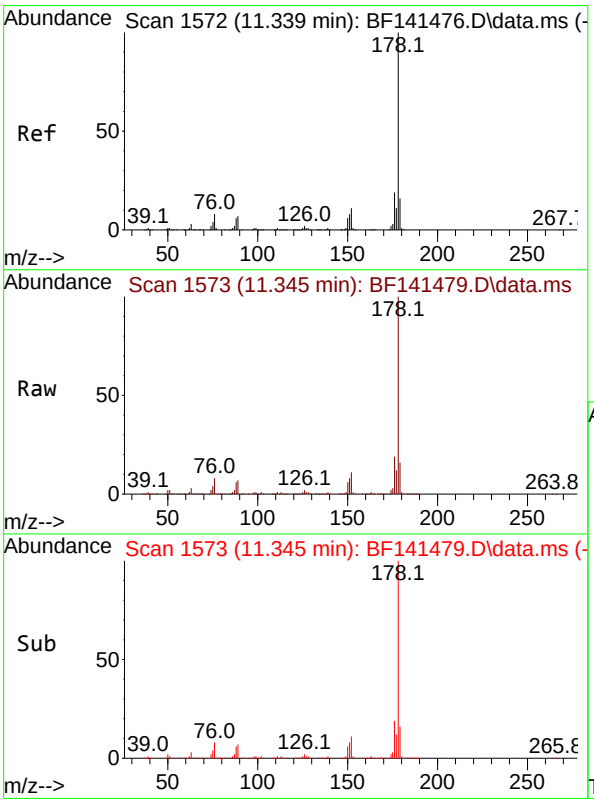
#70
Pentachlorophenol
Concen: 87.100 ng
RT: 11.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:266 Resp: 200556

Ion	Ratio	Lower	Upper
266	100		
268	64.4	50.1	75.1
264	62.5	50.1	75.1

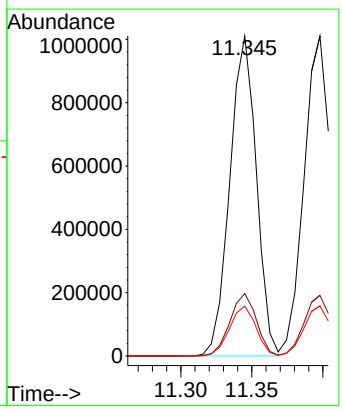


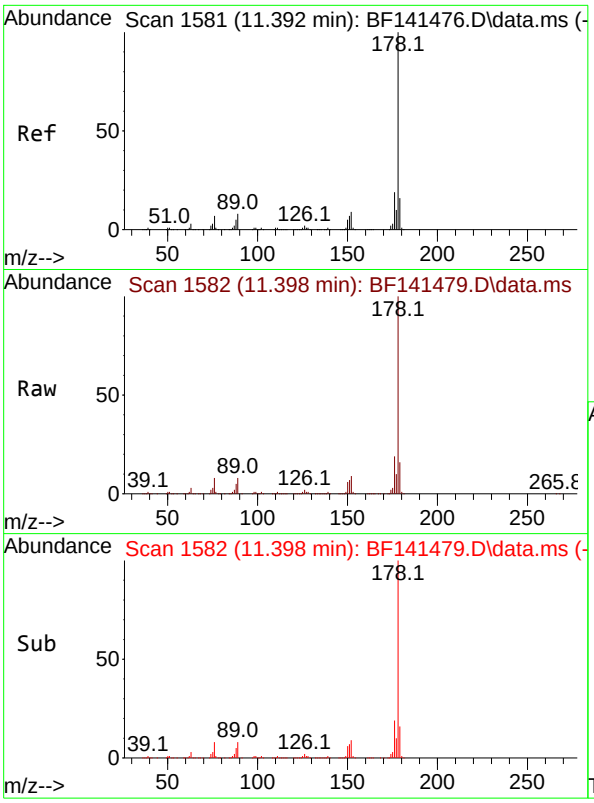


#71
Phenanthrene
Concen: 76.201 ng
RT: 11.345 min Scan# 1573
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:178 Resp: 1312474

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.0
179	15.6	12.4	18.6



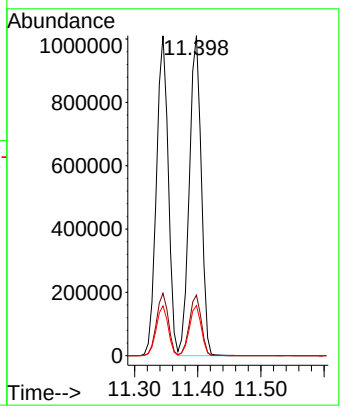


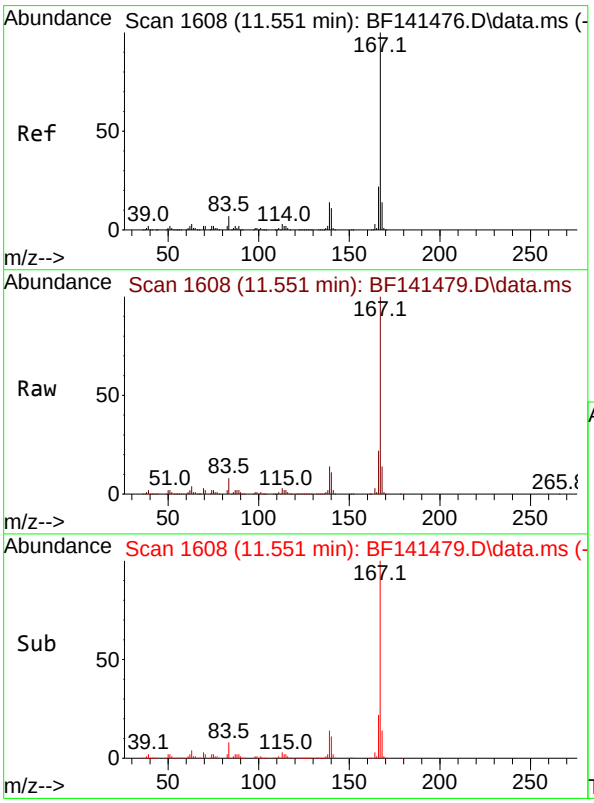
#72
Anthracene
Concen: 76.380 ng
RT: 11.398 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 1322462

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.8	22.2
179	15.6	12.4	18.6

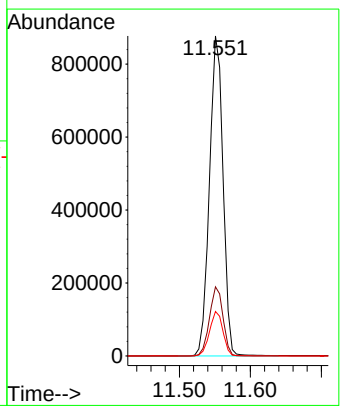


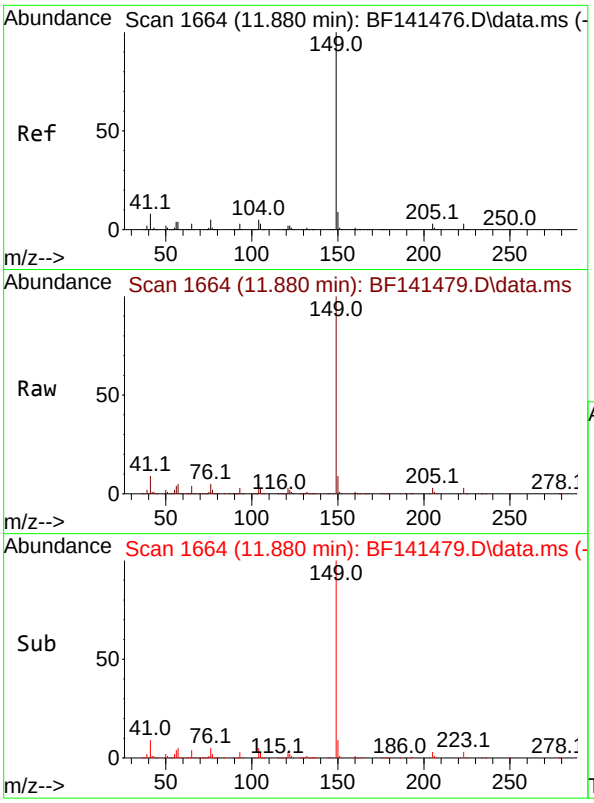


#73
Carbazole
Concen: 74.989 ng
RT: 11.551 min Scan# 1608
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:167 Resp: 1168253

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.9	10.9	16.3



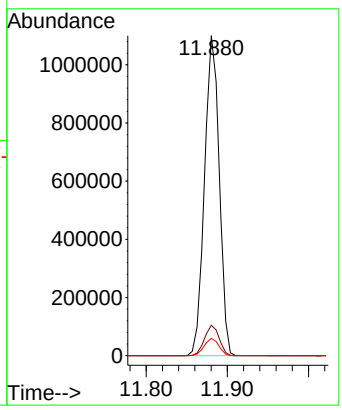


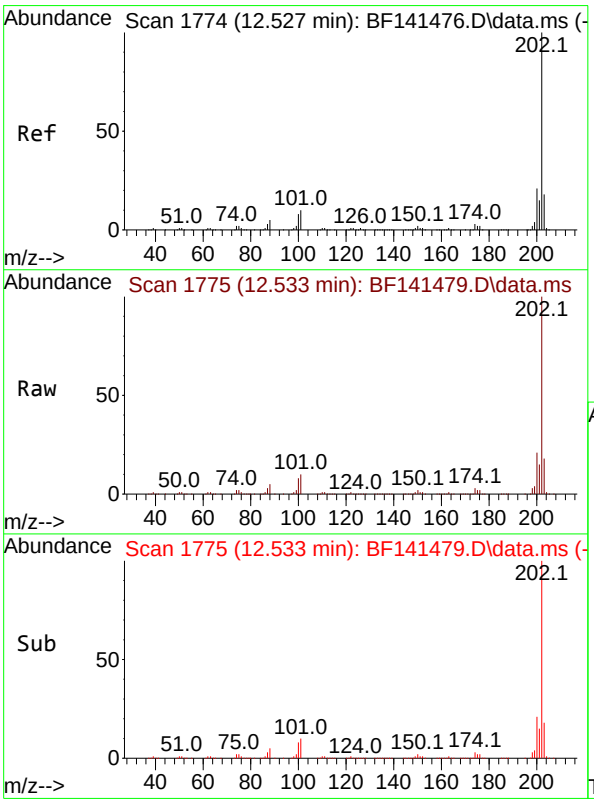
#74
Di-n-butylphthalate
Concen: 76.865 ng
RT: 11.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 1382706

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.0
104	5.4	4.2	6.2

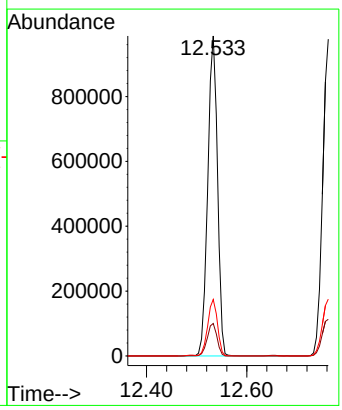


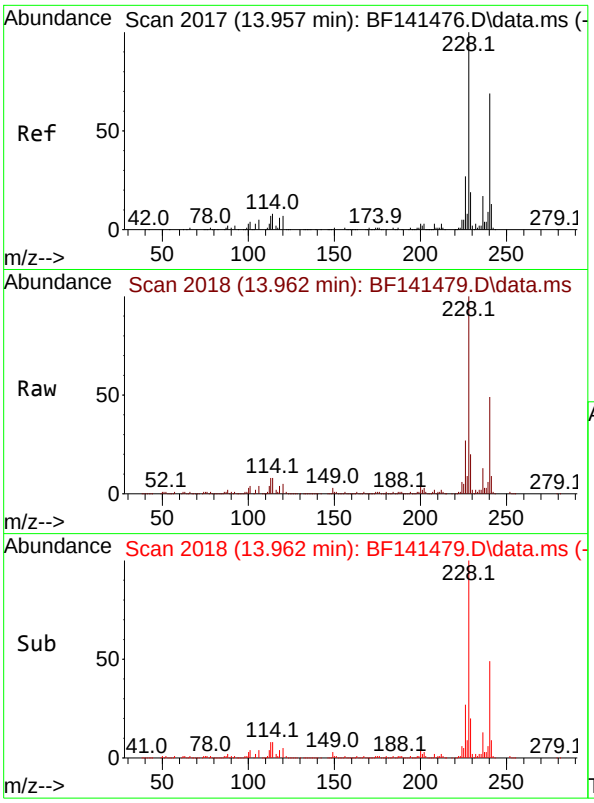


#75
Fluoranthene
Concen: 73.011 ng
RT: 12.533 min Scan# 1775
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:202 Resp: 1333237

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.2
203	17.6	0.0	37.6



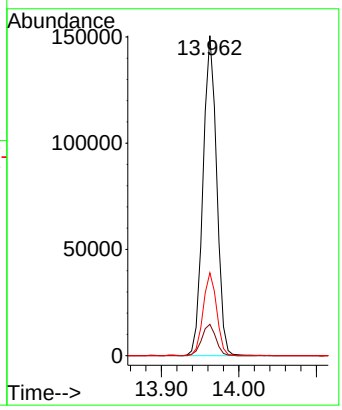


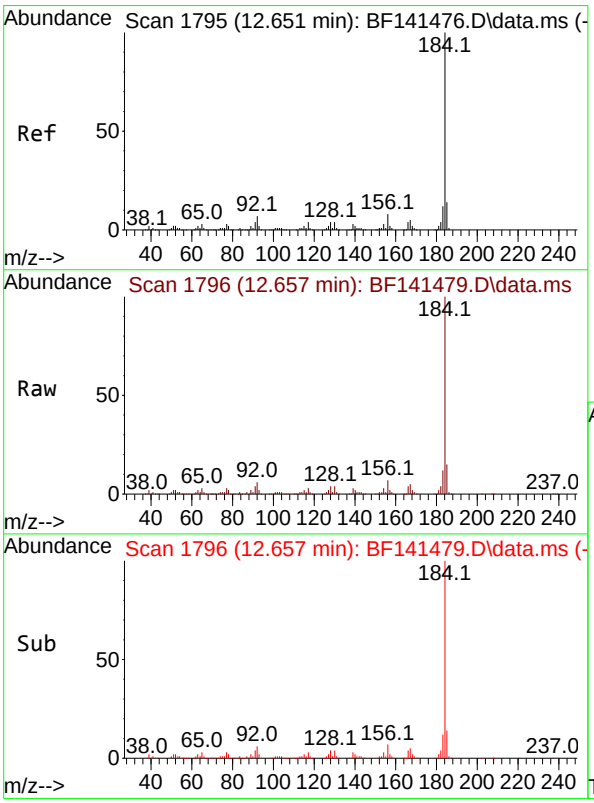
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.962 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:240 Resp: 184347

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.0	12.0
236	25.9	19.8	29.8

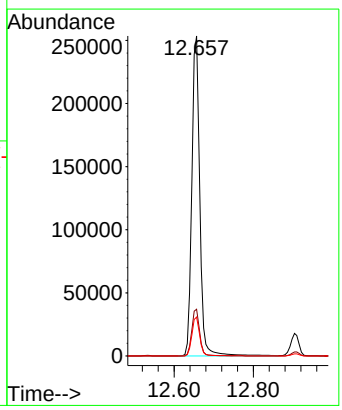


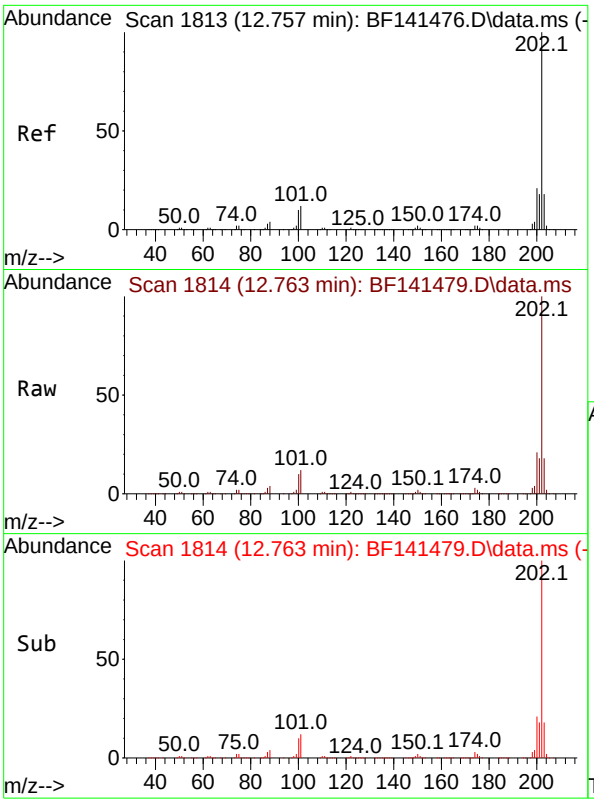


#77
Benzidine
Concen: 87.207 ng
RT: 12.657 min Scan# 1796
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:184 Resp: 354555

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.3	16.9
183	12.1	9.3	13.9



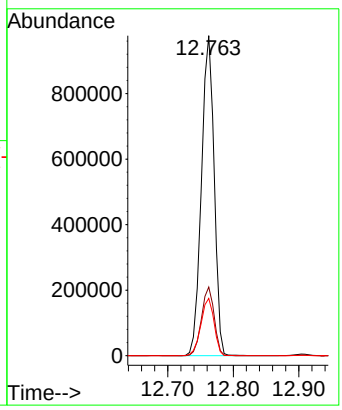


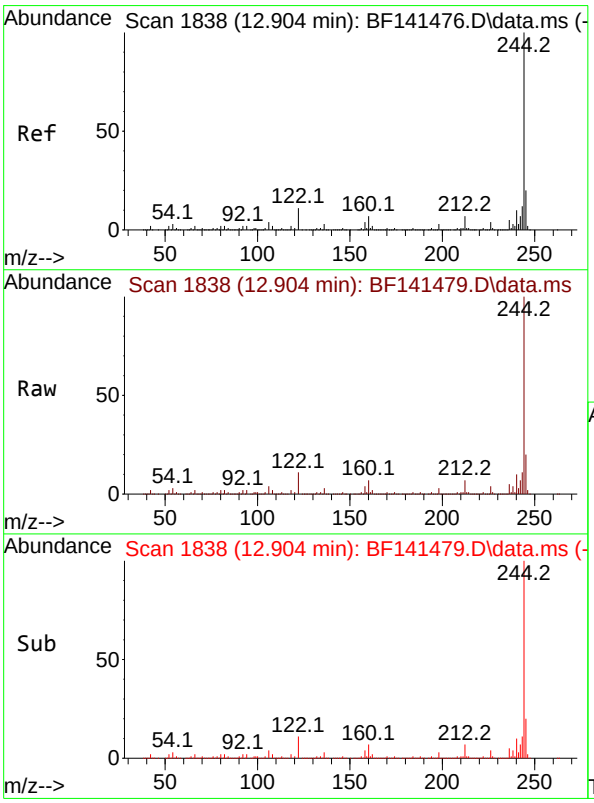
#78
Pyrene
Concen: 84.086 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp: 1319554

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.0	25.4
203	17.9	14.3	21.5

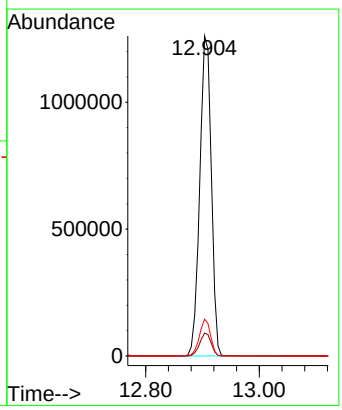


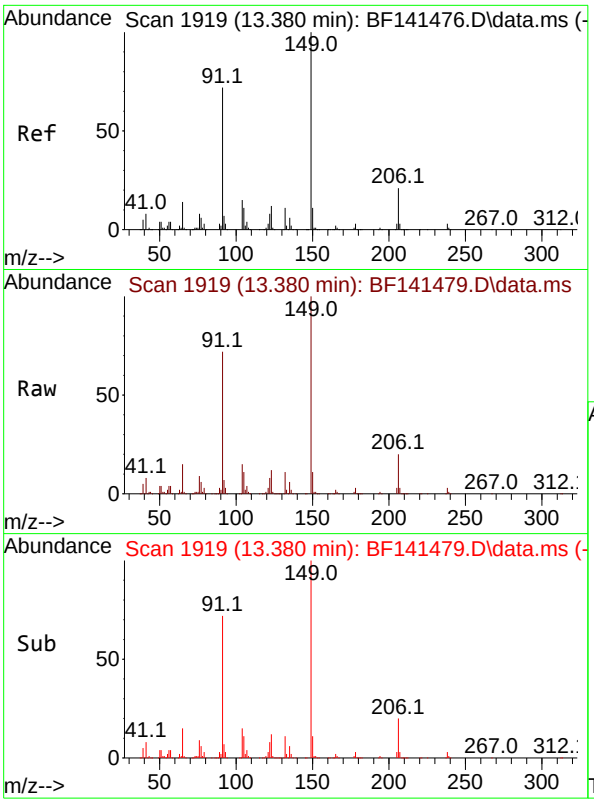


#79
Terphenyl-d14
Concen: 163.152 ng
RT: 12.904 min Scan# 1838
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:244 Resp: 1781602

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.6	8.4
122	11.5	8.4	12.6



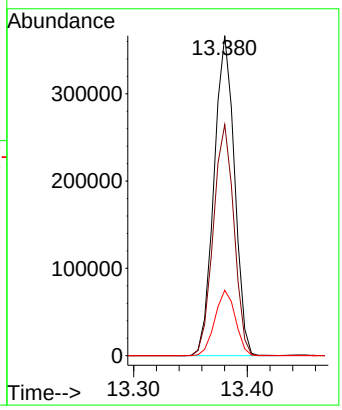


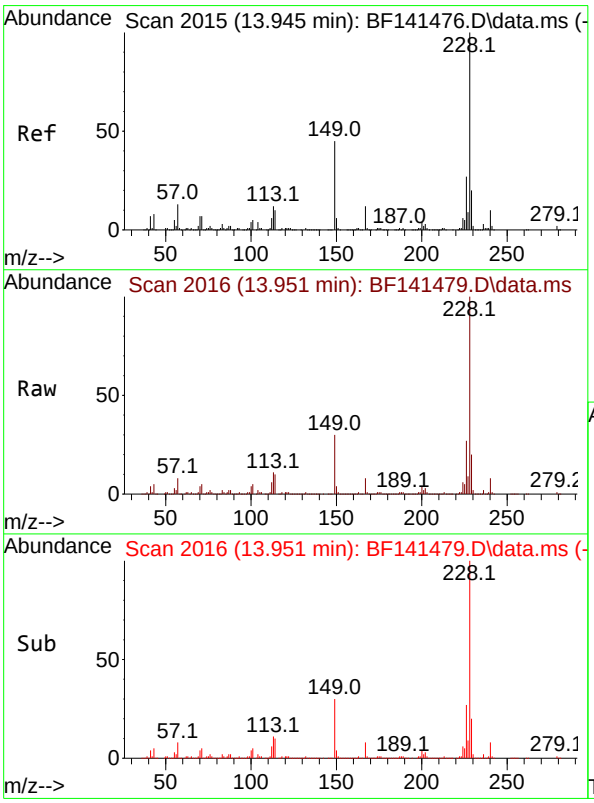
#80
Butylbenzylphthalate
Concen: 84.592 ng
RT: 13.380 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 459803

Ion	Ratio	Lower	Upper
149	100		
91	72.2	57.8	86.8
206	20.4	16.7	25.1

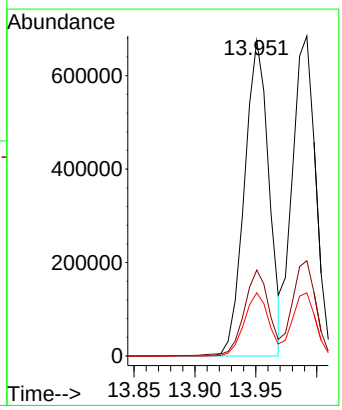


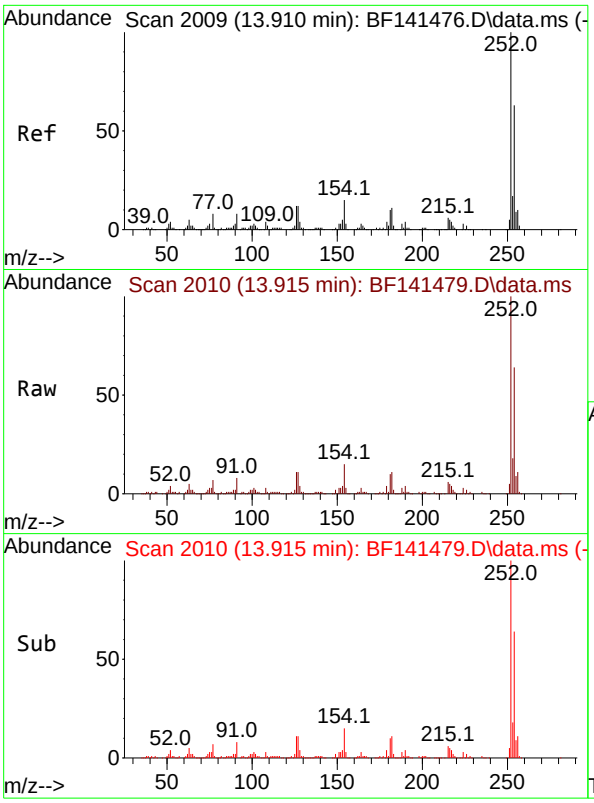


#81
Benzo(a)anthracene
Concen: 76.977 ng
RT: 13.951 min Scan# 2016
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:228 Resp: 943291

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	20.0	15.8	23.6



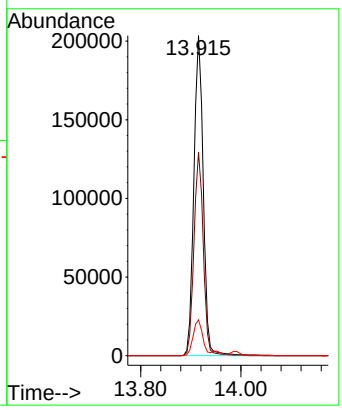


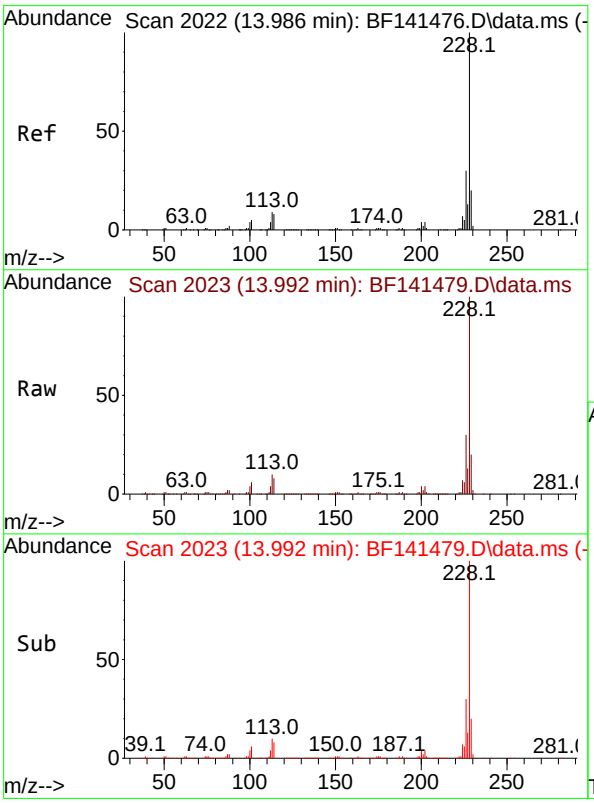
#82
3,3'-Dichlorobenzidine
Concen: 75.143 ng
RT: 13.915 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 263773

Ion	Ratio	Lower	Upper
252	100		
254	63.6	50.6	76.0
126	11.2	9.3	13.9

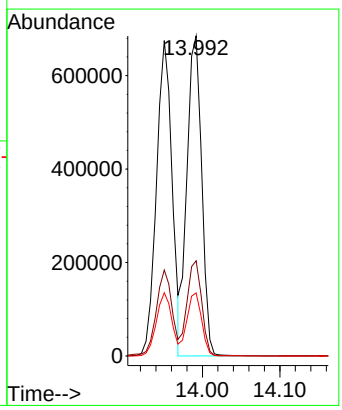


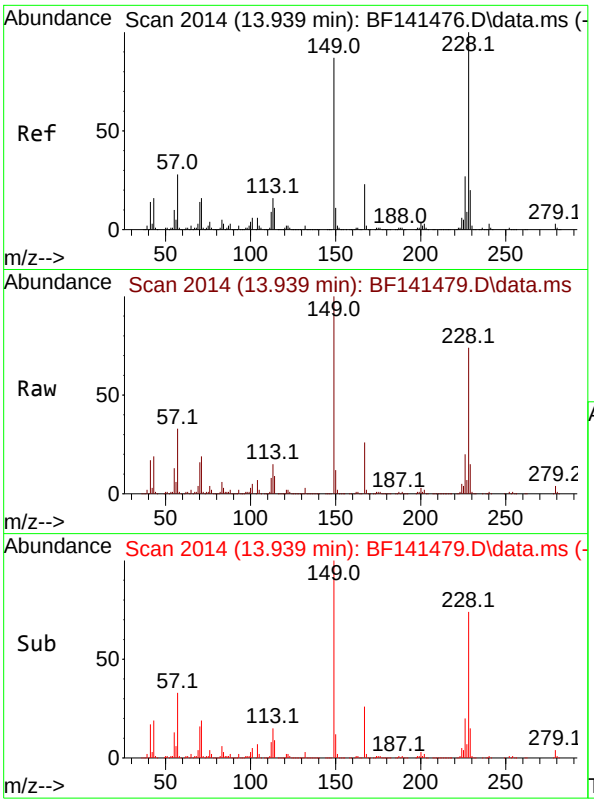


#83
Chrysene
Concen: 80.108 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:228 Resp: 906415

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.0	36.0
229	19.7	15.7	23.5



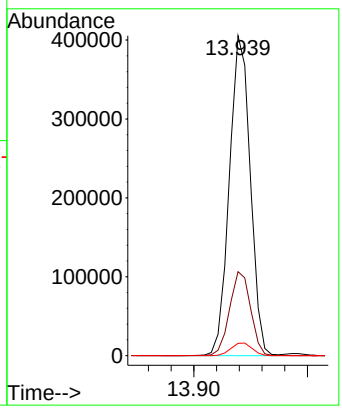


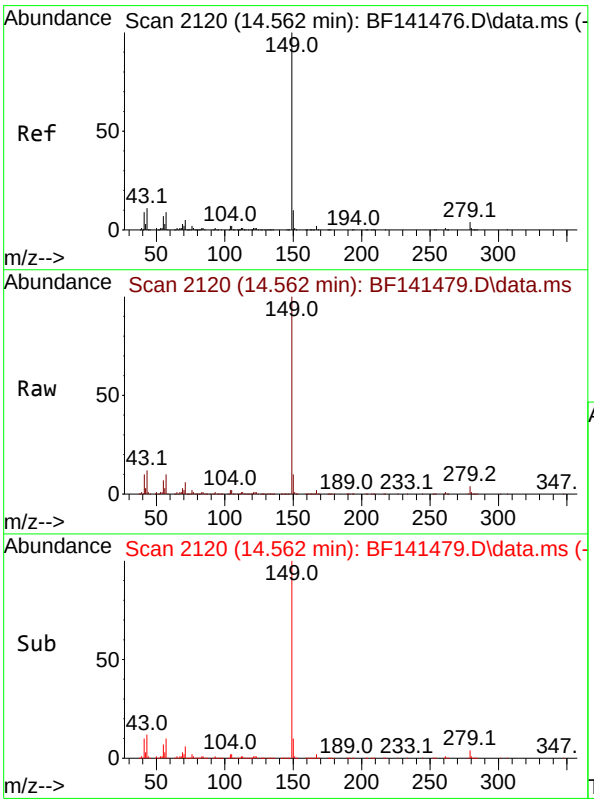
#84
Bis(2-ethylhexyl)phthalate
Concen: 84.477 ng
RT: 13.939 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 517884

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.4	32.0
279	3.9	3.1	4.7

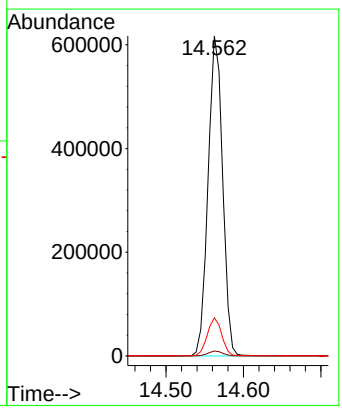


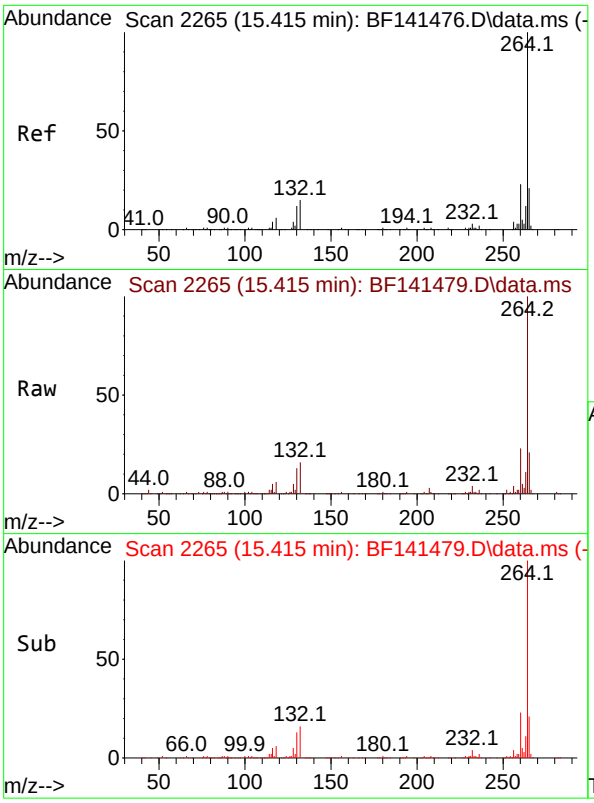


#85
Di-n-octyl phthalate
Concen: 91.886 ng
RT: 14.562 min Scan# 2120
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:149 Resp: 803601

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.8	9.5	14.3



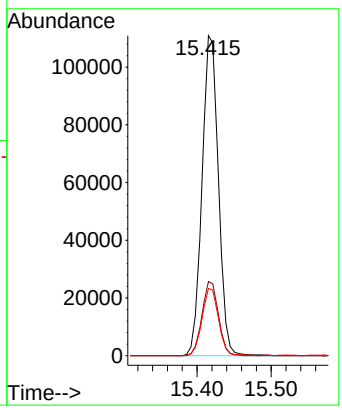


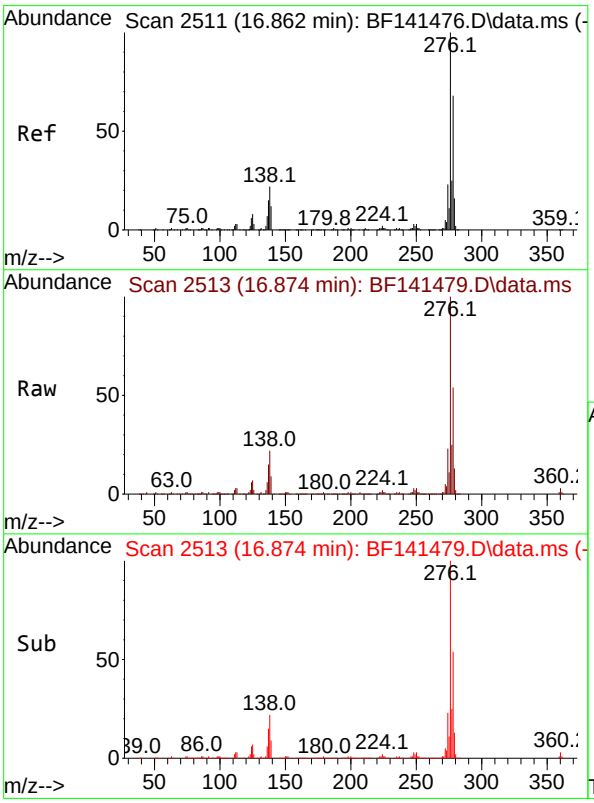
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:264 Resp: 170605

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.0	17.0	25.4

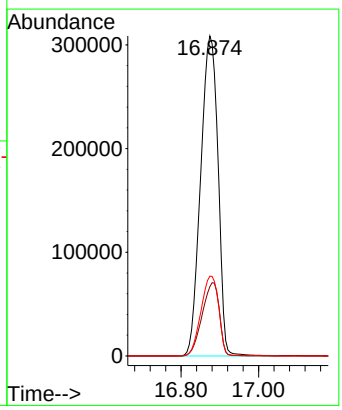


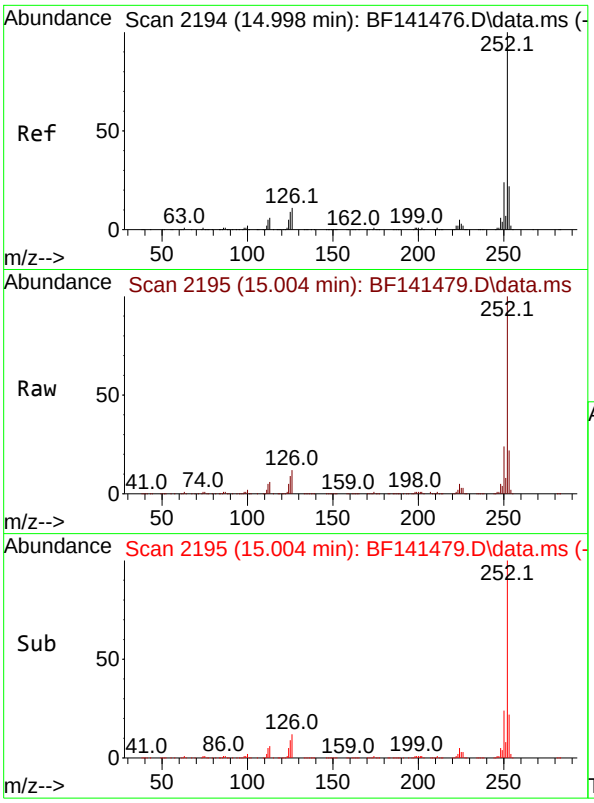


#87
Indeno(1,2,3-cd)pyrene
Concen: 91.166 ng
RT: 16.874 min Scan# 2513
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:276 Resp: 961023

Ion	Ratio	Lower	Upper
276	100		
138	22.7	18.0	27.0
277	25.4	20.4	30.6



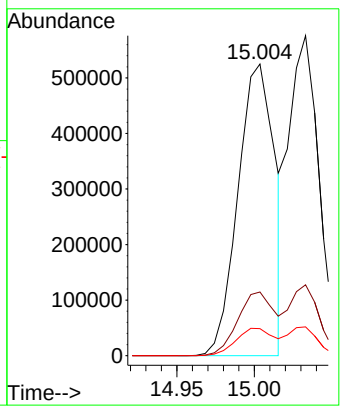


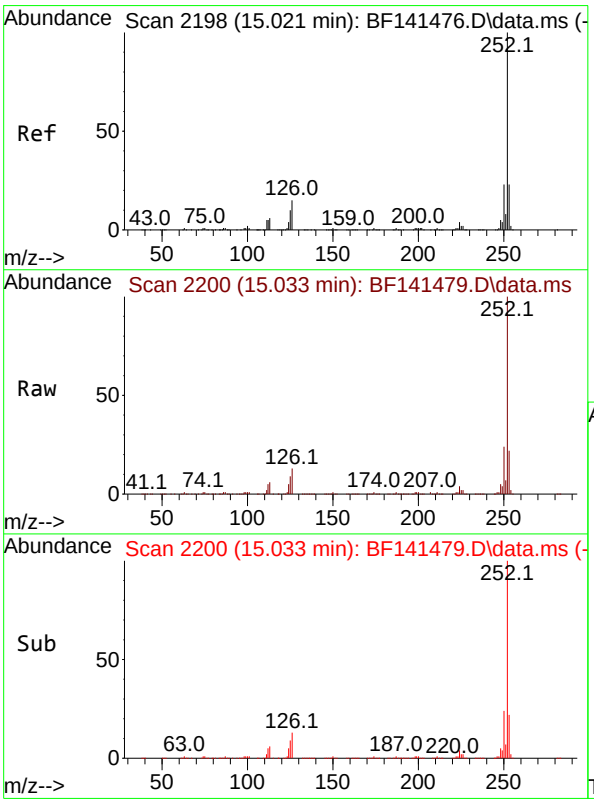
#88
Benzo(b)fluoranthene
Concen: 75.529 ng
RT: 15.004 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 865205

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	9.3	7.0	10.6

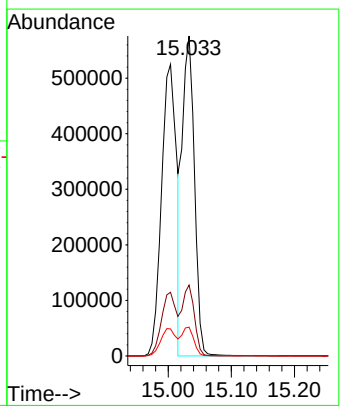


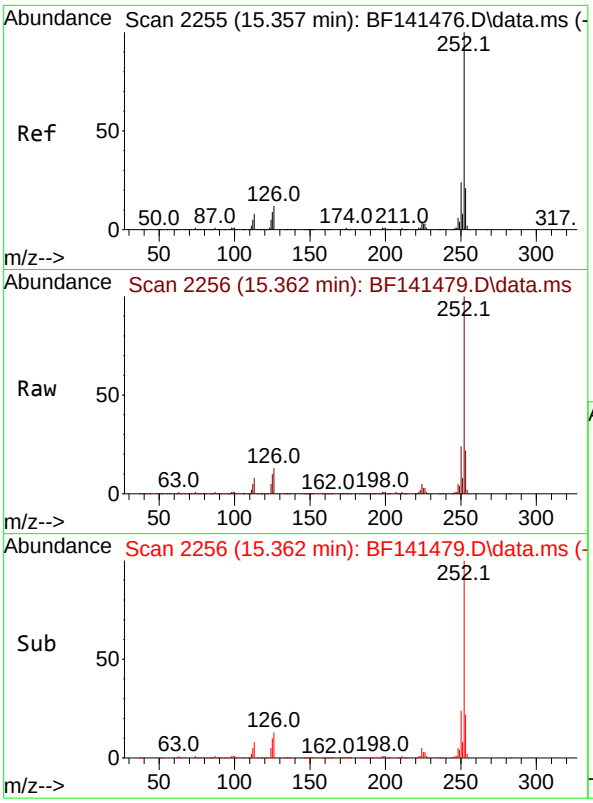


#89
Benzo(k)fluoranthene
Concen: 79.364 ng
RT: 15.033 min Scan# 2200
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:252 Resp: 776323

Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.0	27.0
125	9.0	7.4	11.0



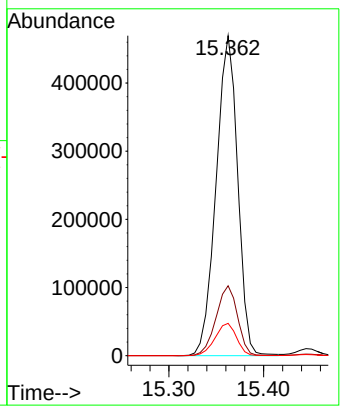


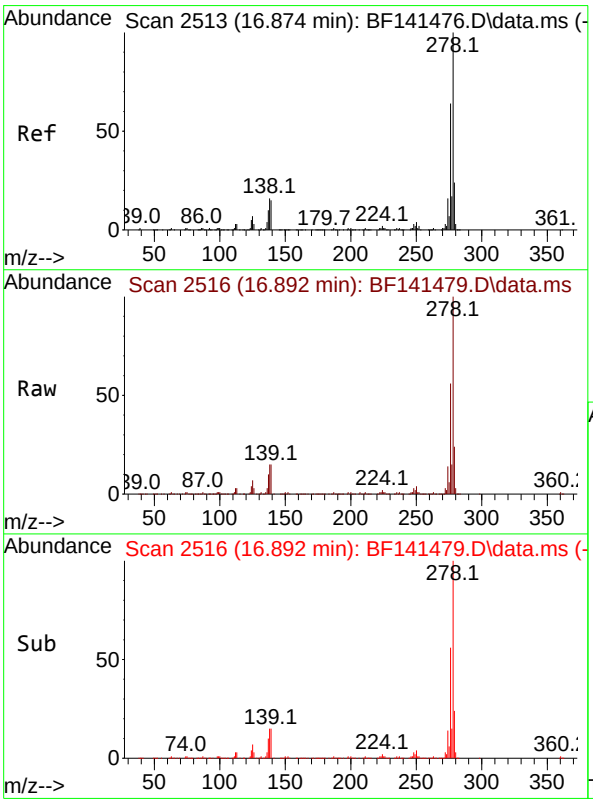
#90
Benzo(a)pyrene
Concen: 80.150 ng
RT: 15.362 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 742932

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	10.1	7.4	11.2

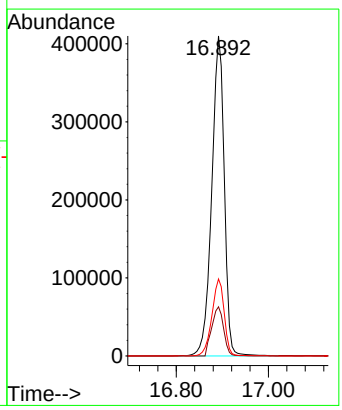


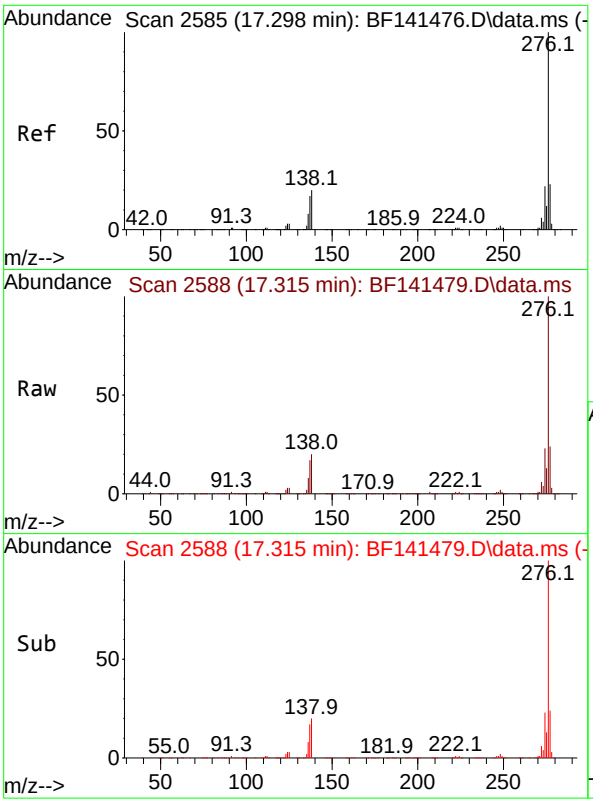


#91
Dibenzo(a,h)anthracene
Concen: 90.578 ng
RT: 16.892 min Scan# 2516
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:278 Resp: 773684

Ion	Ratio	Lower	Upper
278	100		
139	15.3	11.8	17.6
279	24.1	19.1	28.7



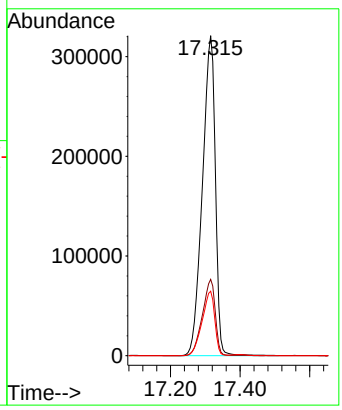


#92
Benzo(g,h,i)perylene
Concen: 93.015 ng
RT: 17.315 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 831418

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.6	28.0
138	20.2	15.9	23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Quant Time: Feb 06 16:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	90009	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	362467	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	197991	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	337289	20.000	ng	0.00
76) Chrysene-d12	13.963	240	252530	20.000	ng	0.00
86) Perylene-d12	15.427	264	199389	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	470176	81.894	ng	0.00
7) Phenol-d6	6.428	99	586892	80.878	ng	-0.01
23) Nitrobenzene-d5	7.357	82	544613	78.369	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	158098	79.490	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1012492	78.786	ng	0.00
79) Terphenyl-d14	12.904	244	1133126	75.750	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.475	88	93282	40.369	ng	99
3) Pyridine	3.205	79	230604	41.938	ng	99
4) n-Nitrosodimethylamine	3.158	42	151656	41.653	ng	97
6) Aniline	6.451	93	284762	41.834	ng	92
8) 2-Chlorophenol	6.575	128	251415	40.527	ng	96
9) Benzaldehyde	6.340	77	154649	40.105	ng	99
10) Phenol	6.446	94	306753	40.615	ng	97
11) bis(2-Chloroethyl)ether	6.528	93	226152	39.866	ng	100
12) 1,3-Dichlorobenzene	6.728	146	264052	40.317	ng	98
13) 1,4-Dichlorobenzene	6.804	146	267068	39.911	ng	99
14) 1,2-Dichlorobenzene	6.957	146	250623	40.354	ng	99
15) Benzyl Alcohol	6.934	79	228379	41.041	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	393626	40.535	ng	98
17) 2-Methylphenol	7.051	107	197905	40.768	ng	99
18) Hexachloroethane	7.298	117	101687	41.061	ng	99
19) n-Nitroso-di-n-propyla...	7.204	70	173832	40.048	ng	100
20) 3+4-Methylphenols	7.204	107	247254	40.073	ng	98
22) Acetophenone	7.198	105	353867	39.246	ng	100
24) Nitrobenzene	7.375	77	267193	39.429	ng	100
25) Isophorone	7.610	82	440640	39.767	ng	100
26) 2-Nitrophenol	7.687	139	136248	40.413	ng	98
27) 2,4-Dimethylphenol	7.728	122	157242	39.924	ng	99
28) bis(2-Chloroethoxy)met...	7.822	93	282744	39.822	ng	100
29) 2,4-Dichlorophenol	7.934	162	211891	39.818	ng	99
30) 1,2,4-Trichlorobenzene	8.016	180	227379	39.237	ng	100
31) Naphthalene	8.093	128	741255	39.287	ng	100
32) Benzoic acid	7.857	122	164966	40.324	ng	98
33) 4-Chloroaniline	8.145	127	267977	40.680	ng	99
34) Hexachlorobutadiene	8.210	225	139658	40.144	ng	99
35) Caprolactam	8.516	113	66599	41.104	ng	99
36) 4-Chloro-3-methylphenol	8.634	107	235824	40.006	ng	100
37) 2-Methylnaphthalene	8.787	142	475273	38.710	ng	100
38) 1-Methylnaphthalene	8.881	142	464346	39.049	ng	99
40) 1,2,4,5-Tetrachloroben...	8.951	216	230166	40.182	ng	99
41) Hexachlorocyclopentadiene	8.934	237	73834	38.754	ng	97
43) 2,4,6-Trichlorophenol	9.063	196	147770	39.914	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Quant Time: Feb 06 16:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

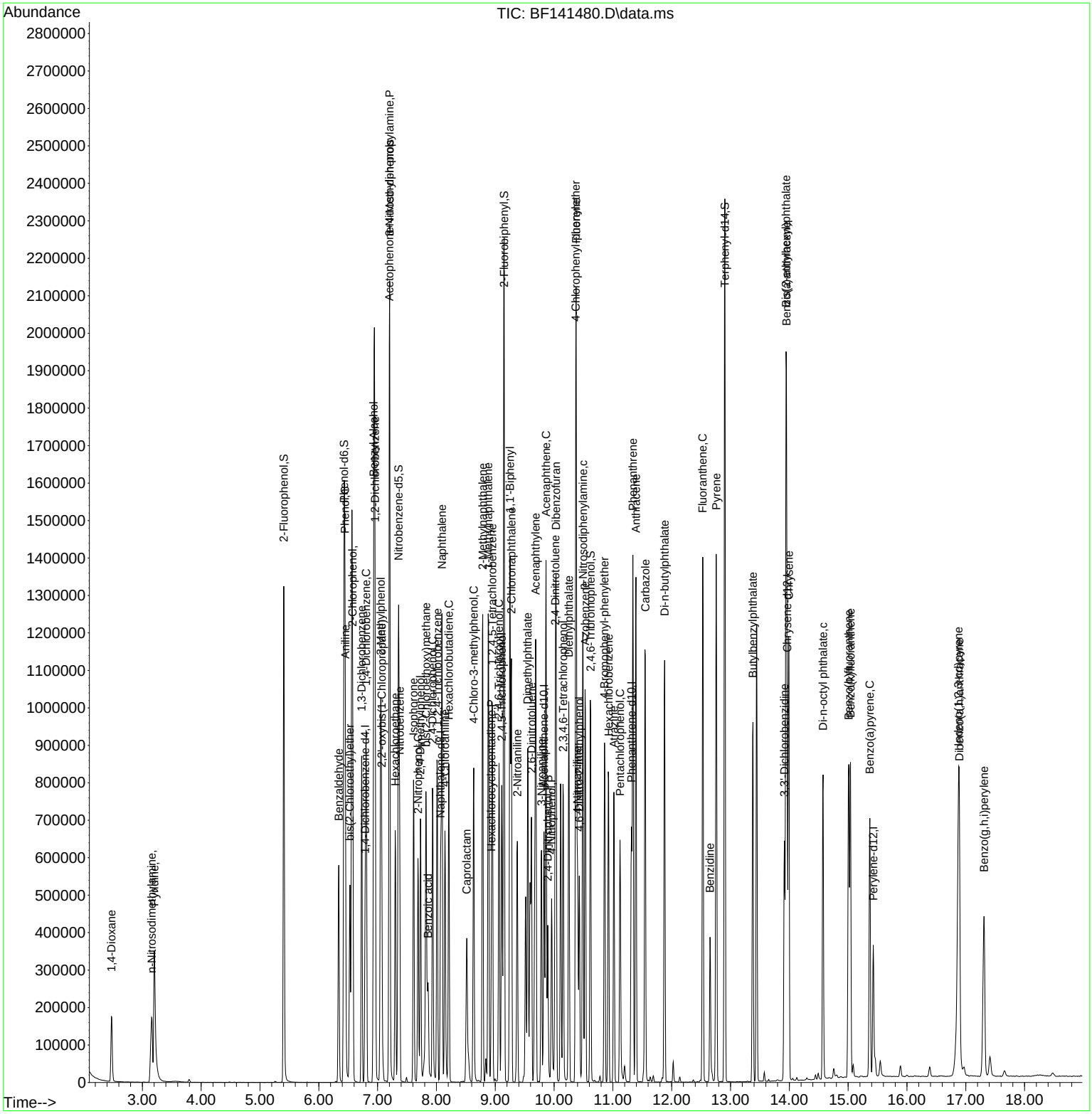
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	160926	40.108	ng	99
46) 1,1'-Biphenyl	9.251	154	606611	39.519	ng	100
47) 2-Chloronaphthalene	9.275	162	447817	39.453	ng	100
48) 2-Nitroaniline	9.375	65	154092	40.451	ng	98
49) Acenaphthylene	9.687	152	670833	39.734	ng	99
50) Dimethylphthalate	9.551	163	530769	39.488	ng	99
51) 2,6-Dinitrotoluene	9.616	165	117431	39.965	ng	99
52) Acenaphthene	9.863	154	452794	39.893	ng	100
53) 3-Nitroaniline	9.787	138	127965	40.463	ng	99
54) 2,4-Dinitrophenol	9.892	184	74461	42.639	ng	97
55) Dibenzofuran	10.034	168	664069	39.860	ng	99
56) 4-Nitrophenol	9.957	139	98990	42.166	ng	99
57) 2,4-Dinitrotoluene	10.022	165	158941	40.633	ng	100
58) Fluorene	10.375	166	508833	39.501	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.157	232	139688	40.438	ng	97
60) Diethylphthalate	10.251	149	521933	39.467	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	243659	39.318	ng	98
62) 4-Nitroaniline	10.398	138	132059	41.124	ng	99
63) Azobenzene	10.528	77	522705	39.759	ng	99
65) 4,6-Dinitro-2-methylph...	10.428	198	98944	42.230	ng	98
66) n-Nitrosodiphenylamine	10.492	169	432307	40.040	ng	99
67) 4-Bromophenyl-phenylether	10.857	248	154044	40.864	ng	95
68) Hexachlorobenzene	10.928	284	156075	40.208	ng	99
69) Atrazine	11.016	200	127486	39.358	ng	100
70) Pentachlorophenol	11.122	266	105427	42.476	ng	99
71) Phenanthrene	11.339	178	744761	40.114	ng	100
72) Anthracene	11.392	178	753295	40.362	ng	100
73) Carbazole	11.551	167	676218	40.267	ng	100
74) Di-n-butylphthalate	11.881	149	794101	40.953	ng	100
75) Fluoranthene	12.528	202	807256	41.011	ng	100
77) Benzidine	12.651	184	211734	38.017	ng	100
78) Pyrene	12.757	202	812250	37.784	ng	100
80) Butylbenzylphthalate	13.380	149	311103	41.781	ng	99
81) Benzo(a)anthracene	13.951	228	638036	38.009	ng	100
82) 3,3'-Dichlorobenzidine	13.916	252	185650	38.608	ng	99
83) Chrysene	13.992	228	610091	39.361	ng	100
84) Bis(2-ethylhexyl)phtha...	13.945	149	371434	44.229	ng	100
85) Di-n-octyl phthalate	14.574	149	534947	44.652	ng	100
87) Indeno(1,2,3-cd)pyrene	16.874	276	474949	38.551	ng	99
88) Benzo(b)fluoranthene	15.010	252	526847	39.352	ng	100
89) Benzo(k)fluoranthene	15.039	252	470794	41.182	ng	98
90) Benzo(a)pyrene	15.369	252	427462	39.459	ng	99
91) Dibenzo(a,h)anthracene	16.892	278	388028	38.870	ng	99
92) Benzo(g,h,i)perylene	17.310	276	402566	38.536	ng	99

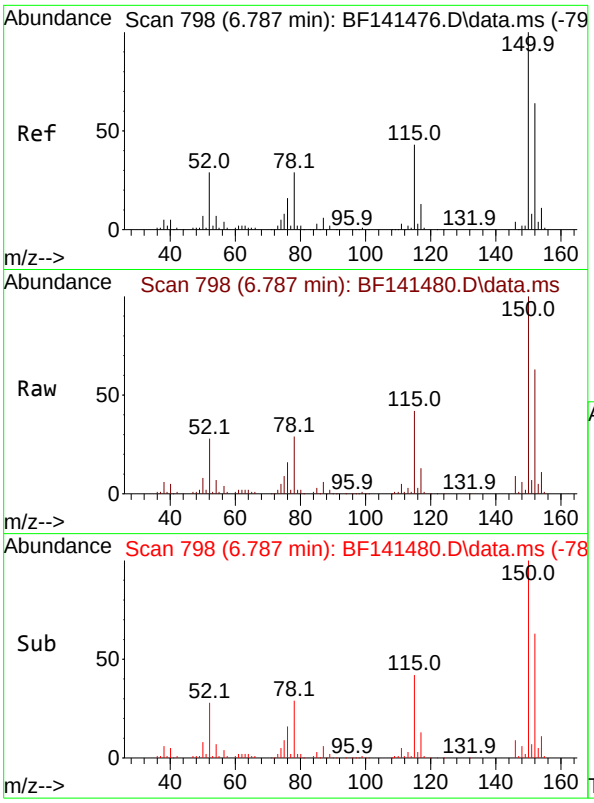
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Quant Time: Feb 06 16:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



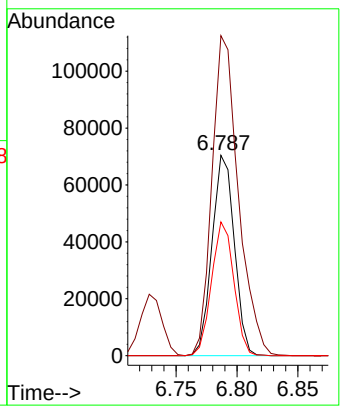


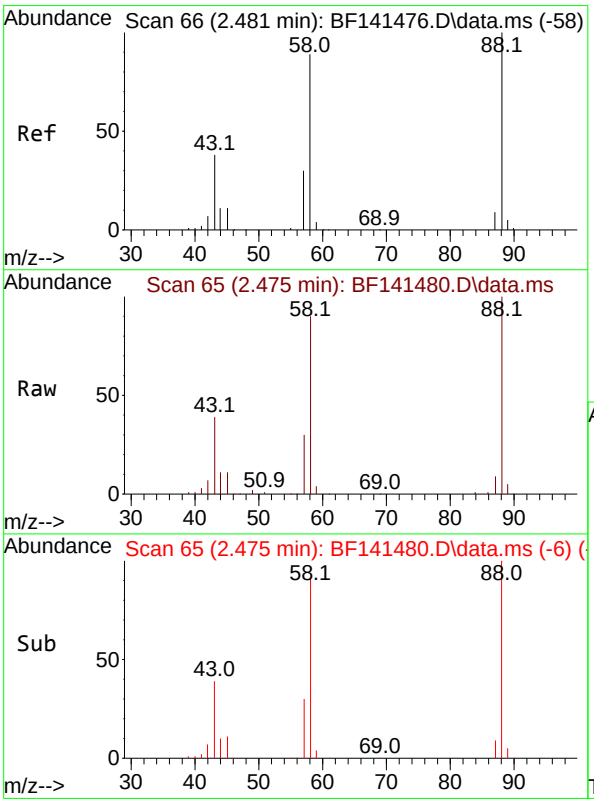
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:152 Resp: 90009

Ion	Ratio	Lower	Upper
152	100		
150	159.7	125.0	187.4
115	66.8	53.6	80.4

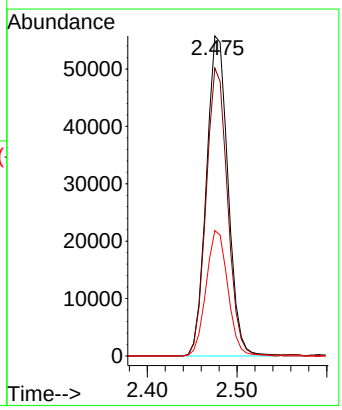


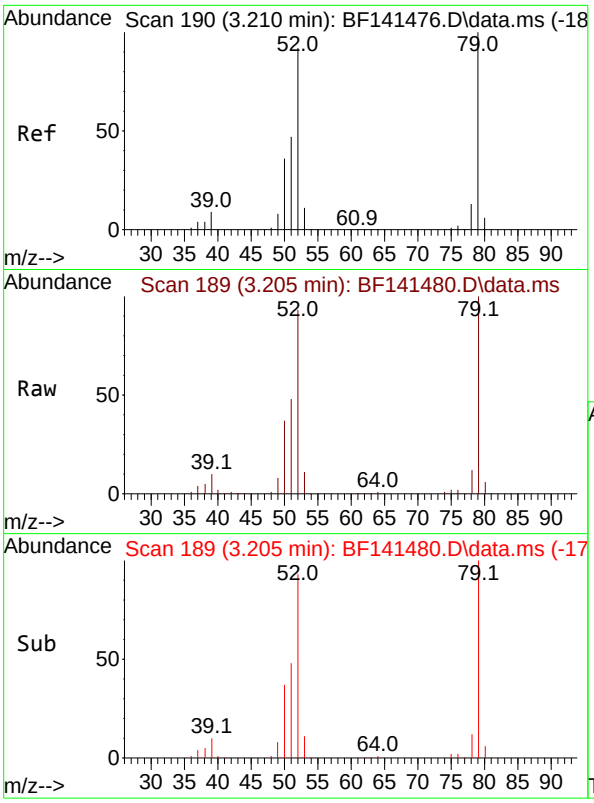


#2
1,4-Dioxane
Concen: 40.369 ng
RT: 2.475 min Scan# 65
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 88 Resp: 93282

Ion	Ratio	Lower	Upper
88	100		
58	89.1	71.1	106.7
43	39.4	30.6	46.0



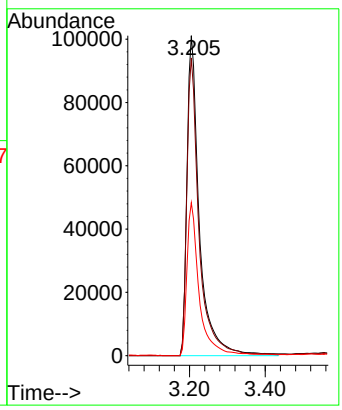


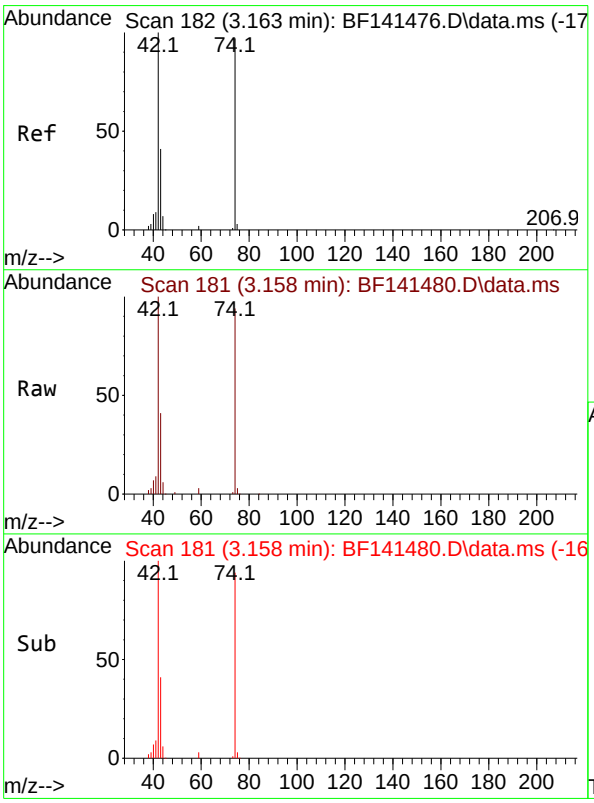
#3
Pyridine
Concen: 41.938 ng
RT: 3.205 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 79 Resp: 230604

Ion	Ratio	Lower	Upper
79	100		
52	93.1	73.7	110.5
51	47.8	37.5	56.3

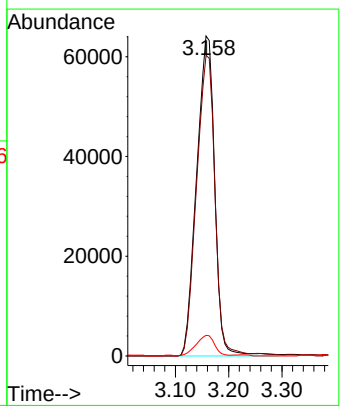


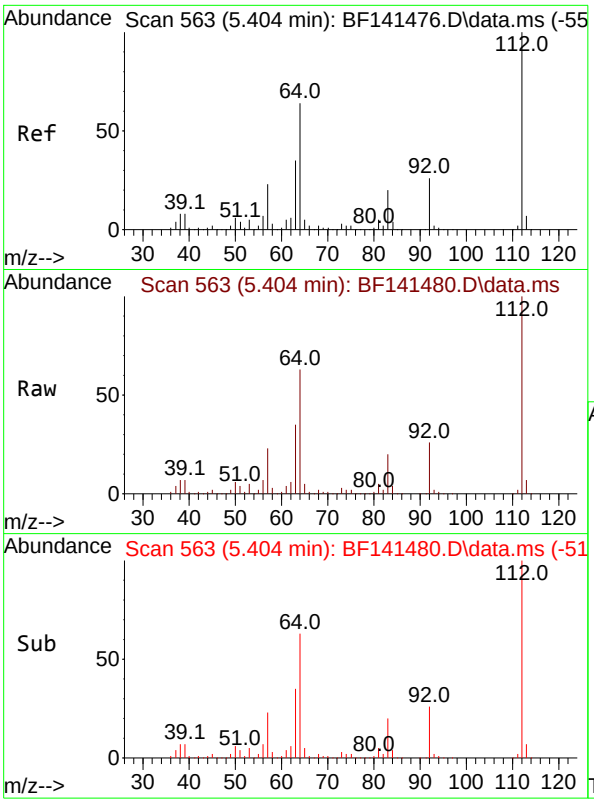


#4
n-Nitrosodimethylamine
Concen: 41.653 ng
RT: 3.158 min Scan# 181
Delta R.T. -0.029 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 42 Resp: 151656

Ion	Ratio	Lower	Upper
42	100		
74	94.0	78.0	117.0
44	6.5	5.4	8.2



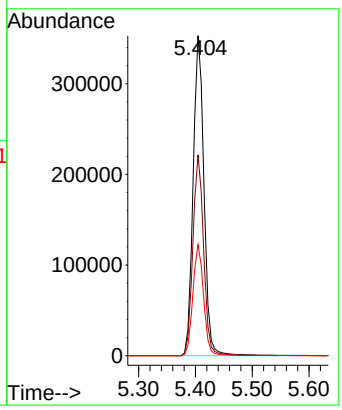


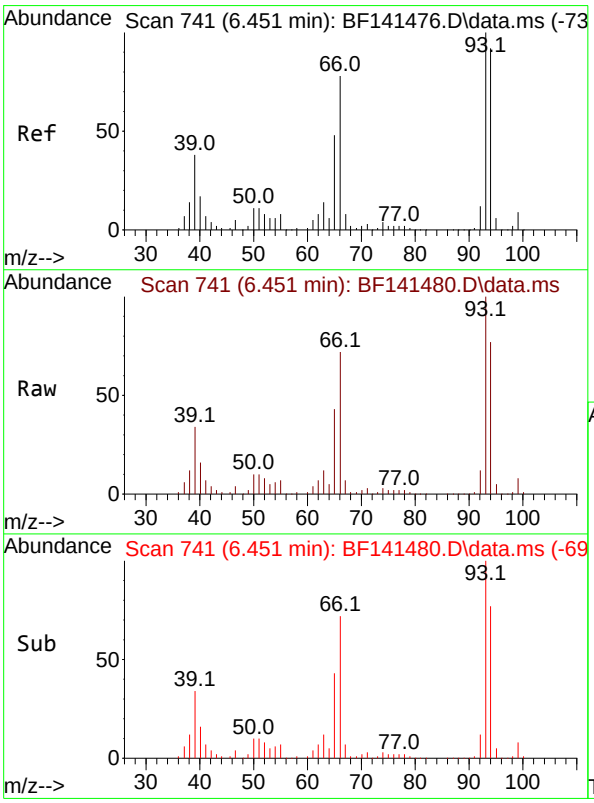
#5
2-Fluorophenol
Concen: 81.894 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:112 Resp: 470176

Ion	Ratio	Lower	Upper
112	100		
64	62.8	51.1	76.7
63	34.7	28.4	42.6

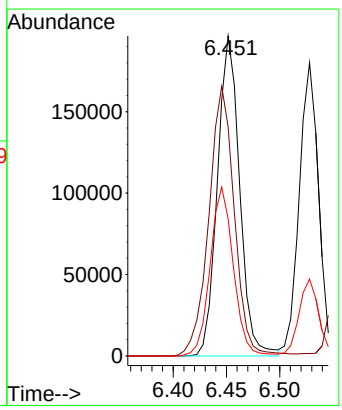


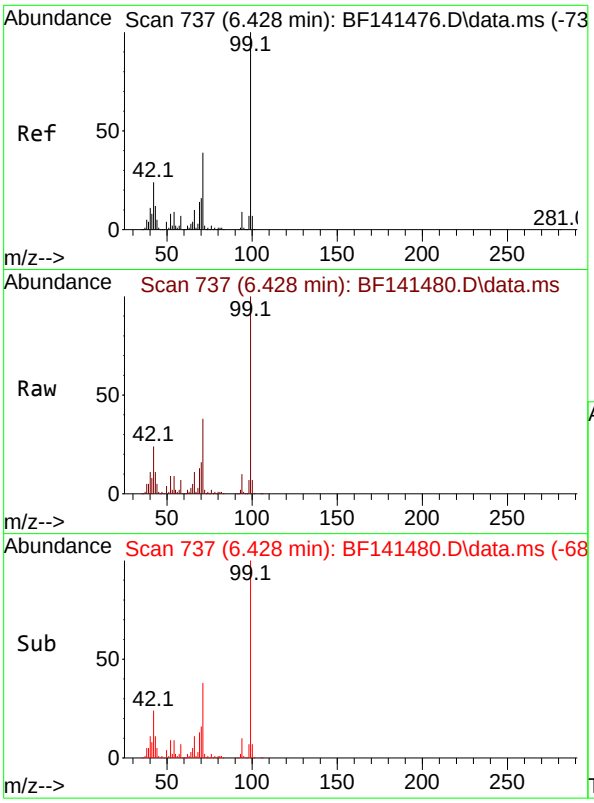


#6
Aniline
Concen: 41.834 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 93 Resp: 284762

Ion	Ratio	Lower	Upper
93	100		
66	71.6	62.6	94.0
65	42.9	38.3	57.5



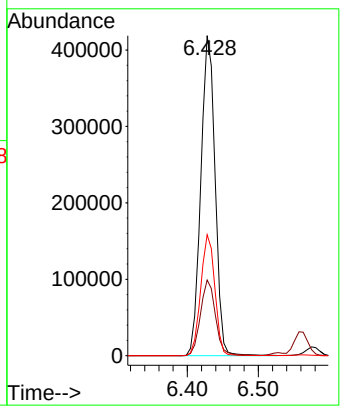


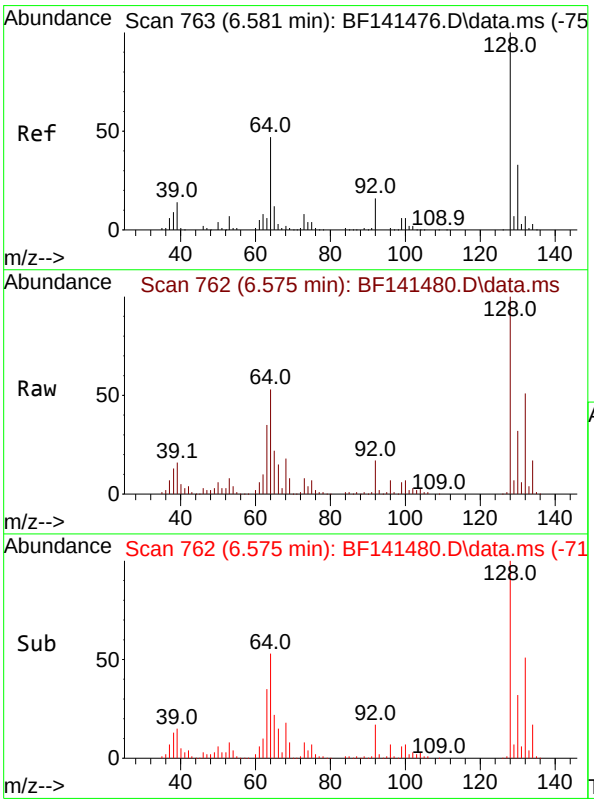
#7
Phenol-d6
Concen: 80.878 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 99 Resp: 586892

Ion	Ratio	Lower	Upper
99	100		
42	23.7	19.1	28.7
71	37.8	31.1	46.7

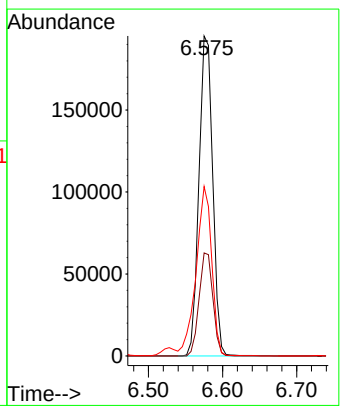


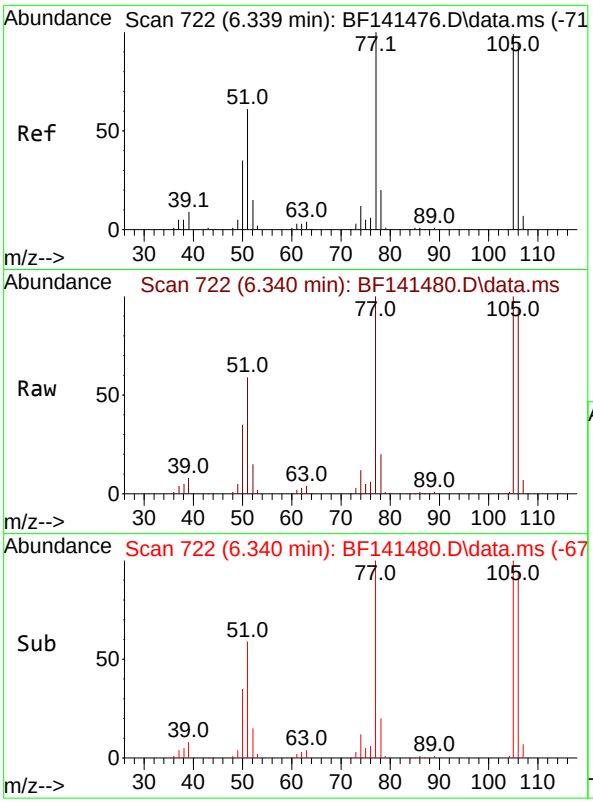


#8
2-Chlorophenol
Concen: 40.527 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:128 Resp: 251415

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.7	52.7
64	52.9	28.3	68.3



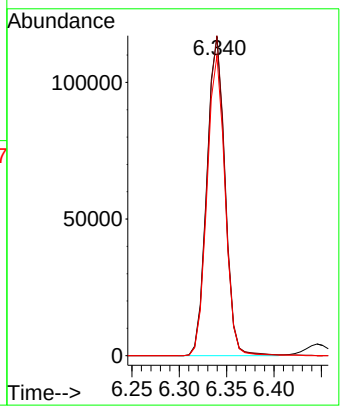


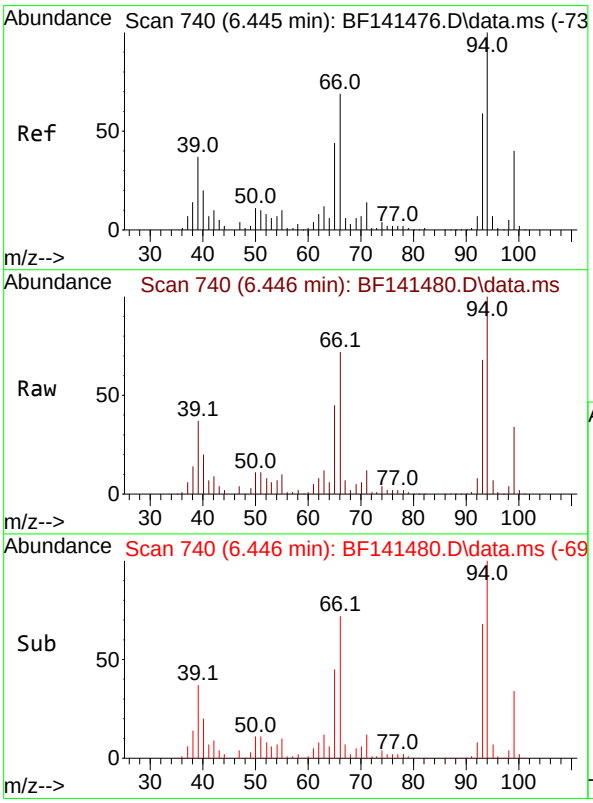
#9
Benzaldehyde
Concen: 40.105 ng
RT: 6.340 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 77 Resp: 154649

Ion	Ratio	Lower	Upper
77	100		
105	100.4	79.4	119.4
106	94.1	75.1	115.1

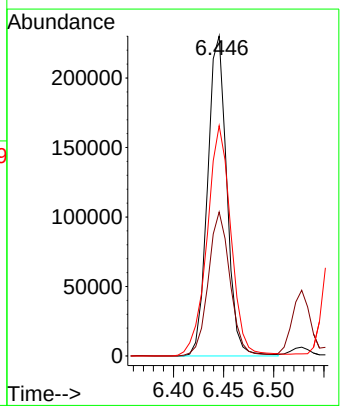


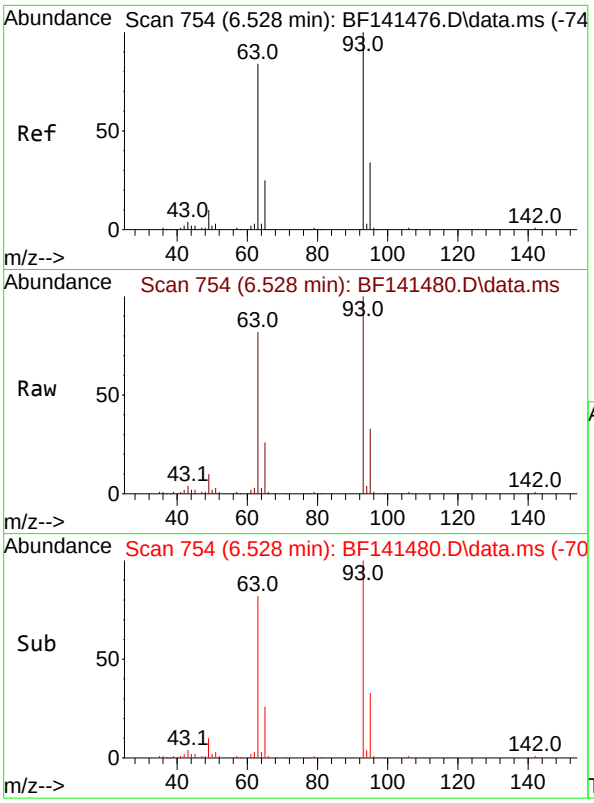


#10
Phenol
Concen: 40.615 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 94 Resp: 306753

Ion	Ratio	Lower	Upper
94	100		
65	45.0	23.7	63.7
66	71.9	49.3	89.3



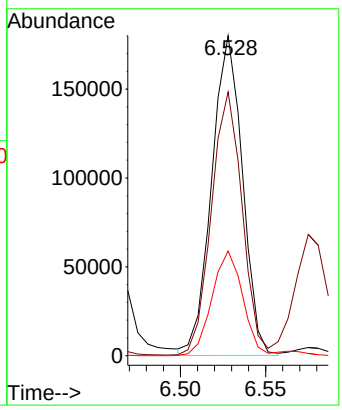


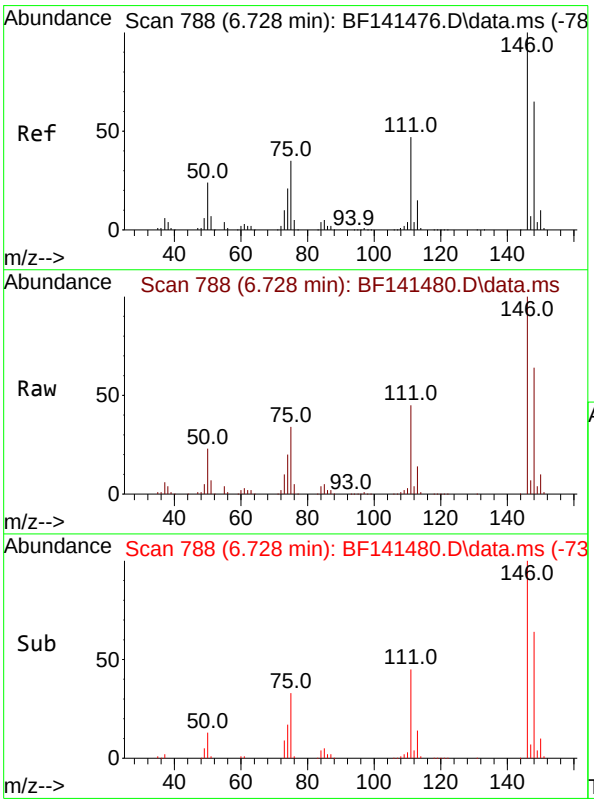
#11
bis(2-Chloroethyl)ether
Concen: 39.866 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 93 Resp: 226152

Ion	Ratio	Lower	Upper
93	100		
63	82.4	62.0	102.0
95	32.7	12.6	52.6

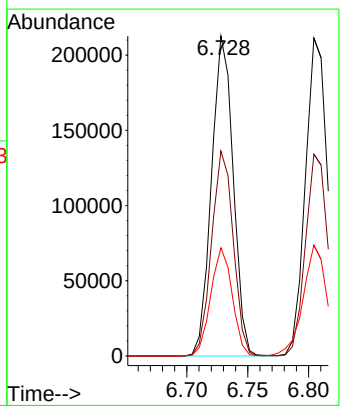


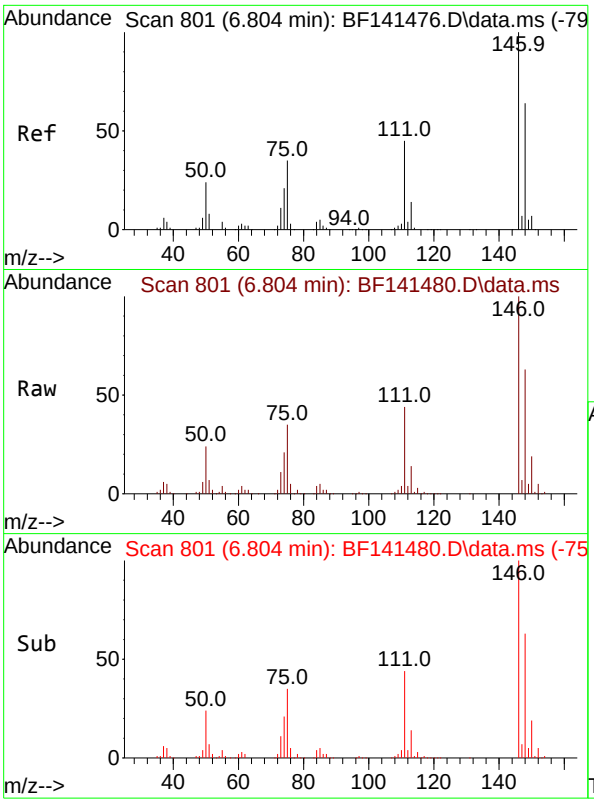


#12
1,3-Dichlorobenzene
Concen: 40.317 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:146 Resp: 264052

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.9	77.9
75	33.8	28.2	42.2



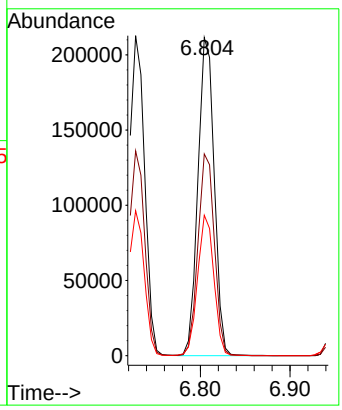


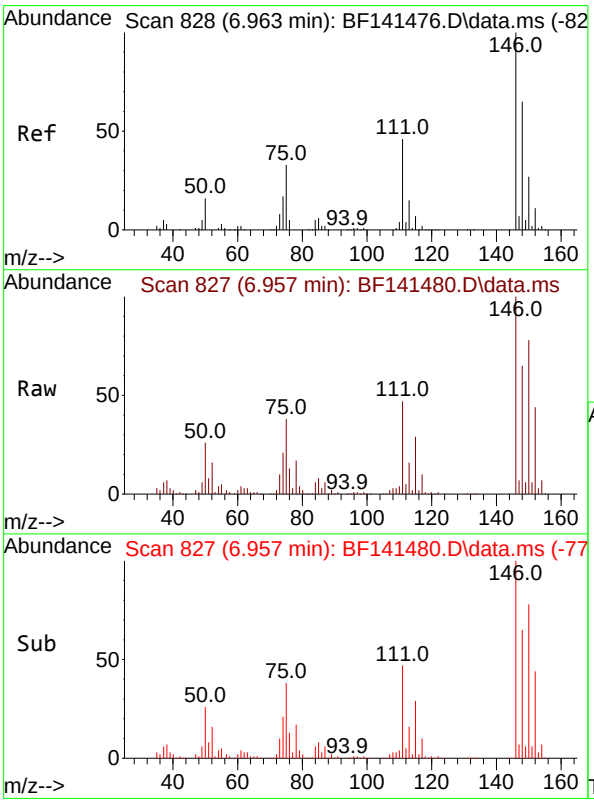
#13
1,4-Dichlorobenzene
Concen: 39.911 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:146 Resp: 267068

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.9	76.3
111	44.2	35.9	53.9

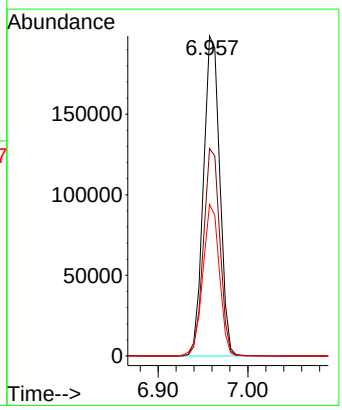


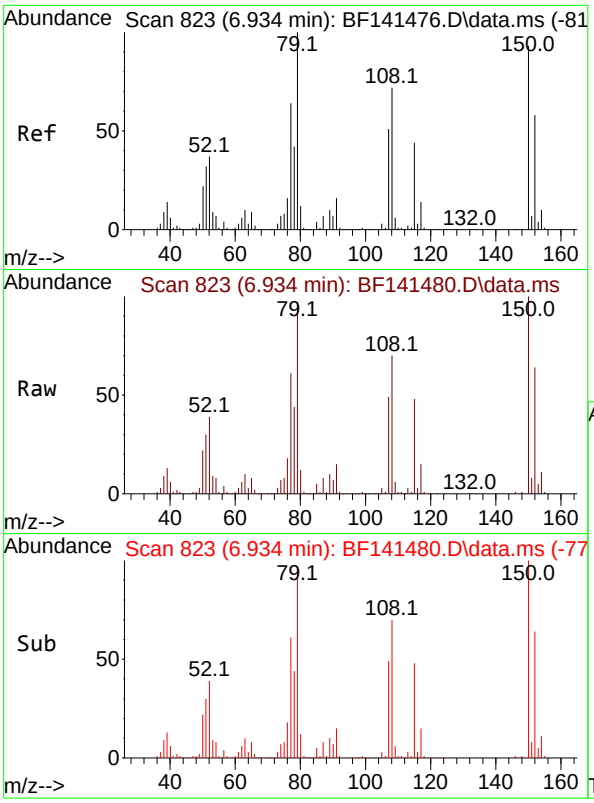


#14
1,2-Dichlorobenzene
Concen: 40.354 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:146 Resp: 250623

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.8	77.6
111	47.4	37.0	55.4



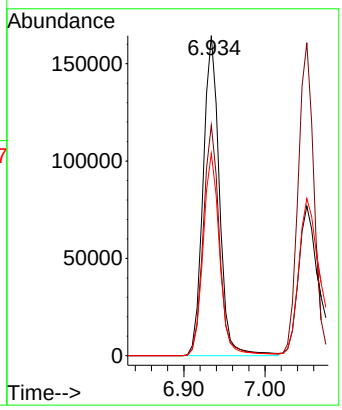


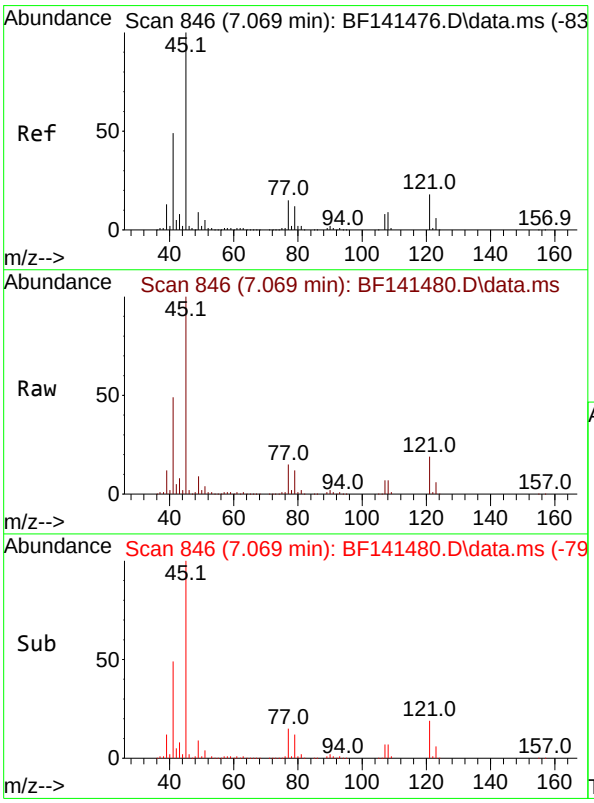
#15
Benzyl Alcohol
Concen: 41.041 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 79 Resp: 228379

Ion	Ratio	Lower	Upper
79	100		
108	72.0	57.4	86.2
77	63.2	50.9	76.3

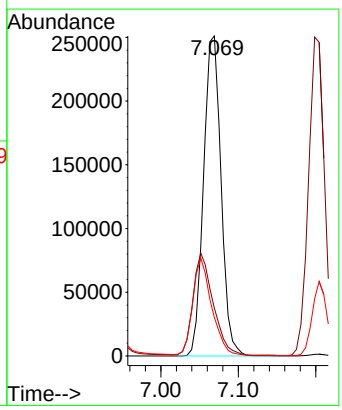


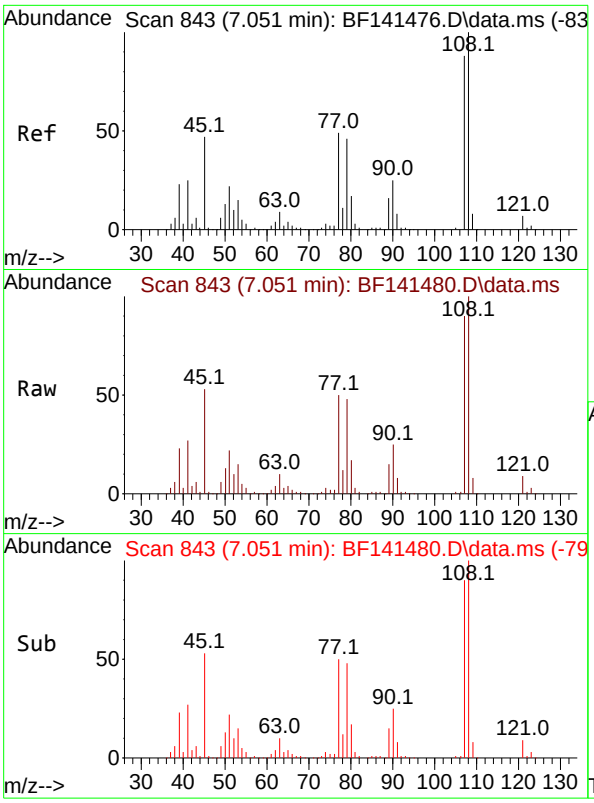


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.535 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 45 Resp: 393626

Ion	Ratio	Lower	Upper
45	100		
77	14.9	0.0	35.8
79	12.0	0.0	32.7



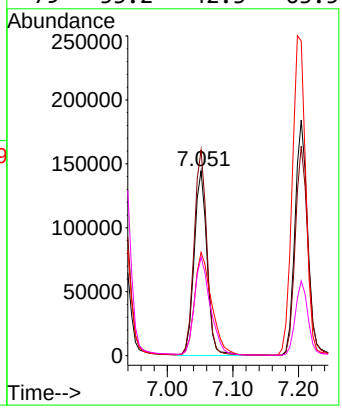


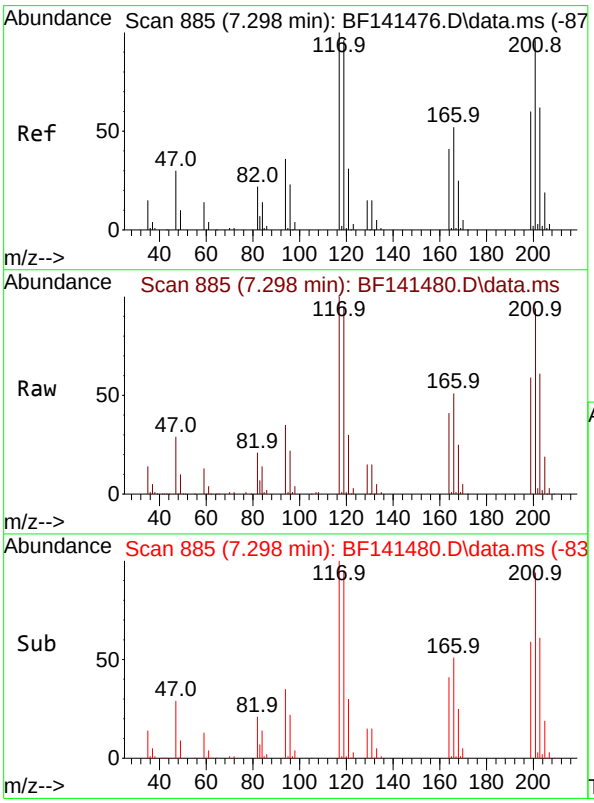
#17
2-Methylphenol
Concen: 40.768 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:107 Resp: 197905

Ion	Ratio	Lower	Upper
107	100		
108	111.3	90.6	136.0
77	55.8	44.4	66.6
79	53.2	42.3	63.5

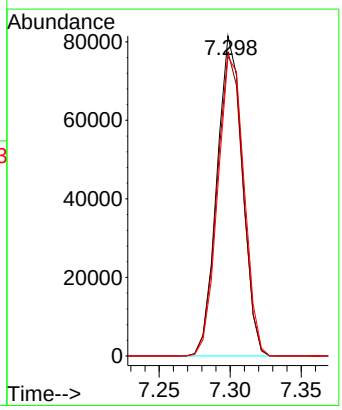


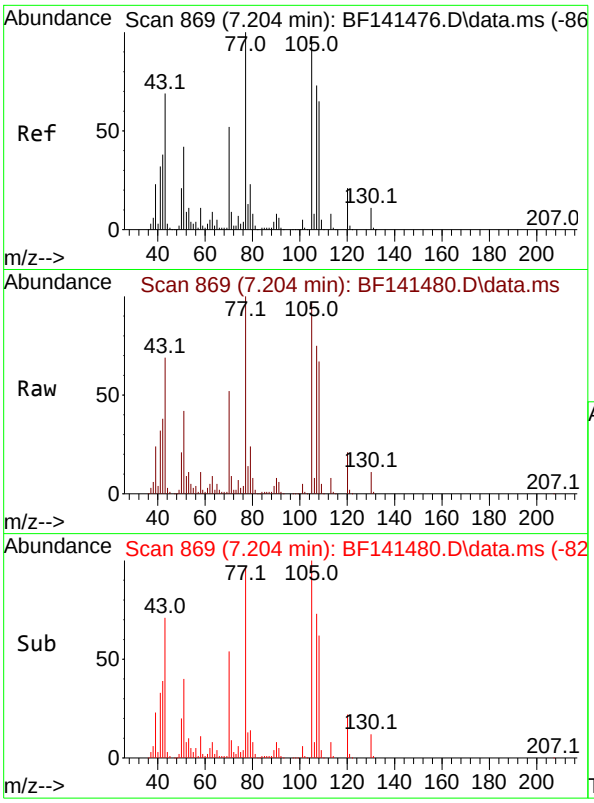


#18
Hexachloroethane
Concen: 41.061 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:117 Resp: 101687

Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.5	114.7
201	93.5	76.7	115.1



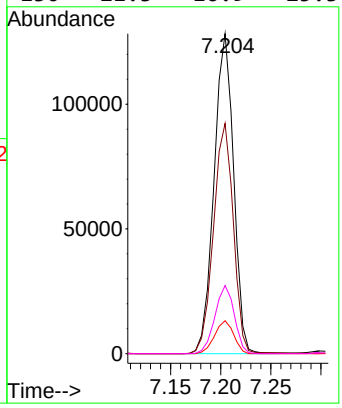


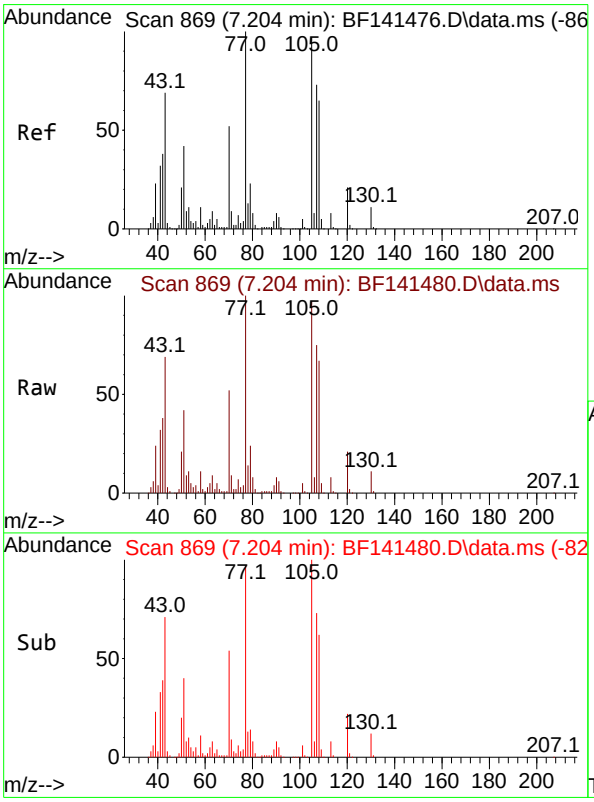
#19
n-Nitroso-di-n-propylamine
Concen: 40.048 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 70 Resp: 173832

Ion	Ratio	Lower	Upper
70	100		
42	72.0	57.4	86.2
101	10.3	8.0	12.0
130	21.3	16.9	25.3

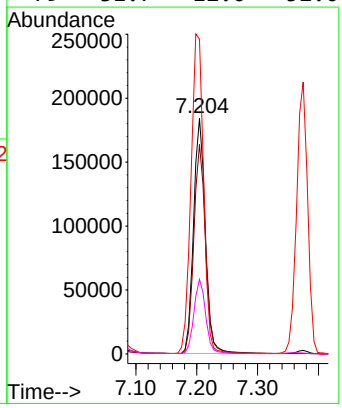


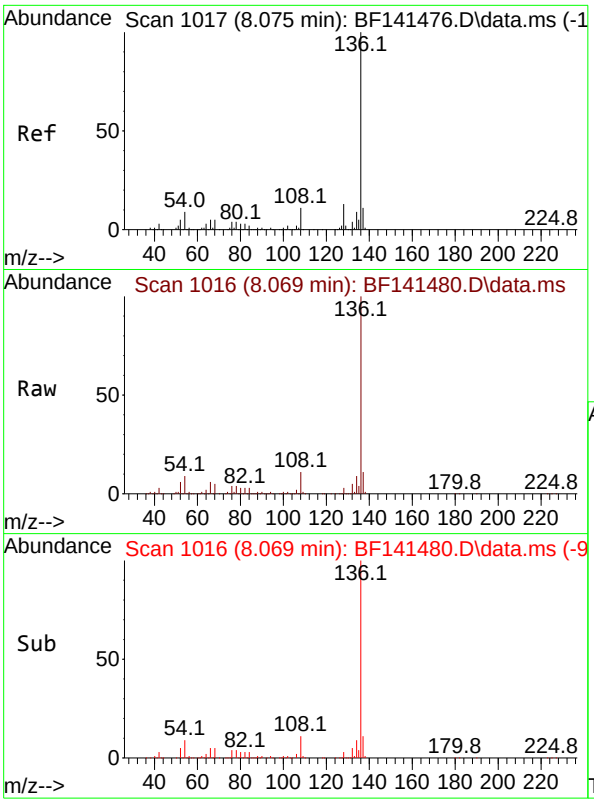


#20
3+4-Methylphenols
Concen: 40.073 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:107 Resp: 247254

Ion	Ratio	Lower	Upper
107	100		
108	88.9	68.5	108.5
77	133.5	116.5	156.5
79	31.7	12.0	52.0



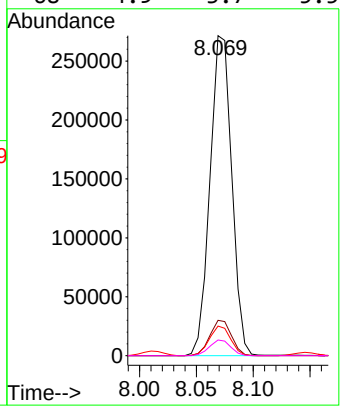


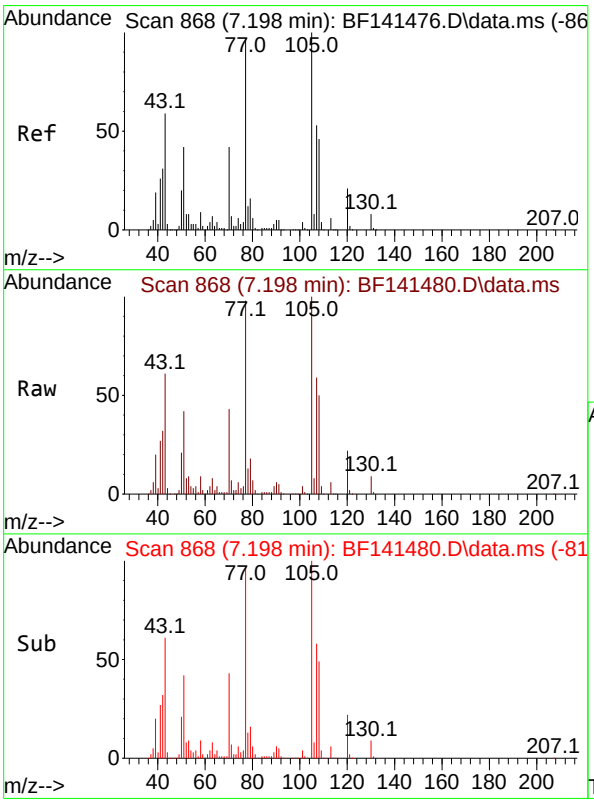
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:136 Resp: 362467

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	9.3	7.2	10.8
68	4.9	3.7	5.5

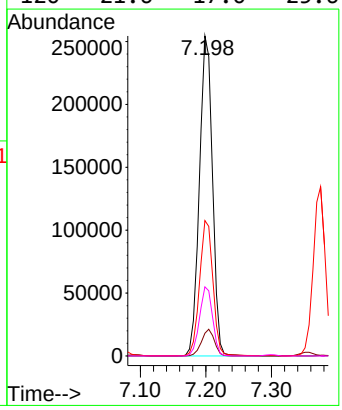


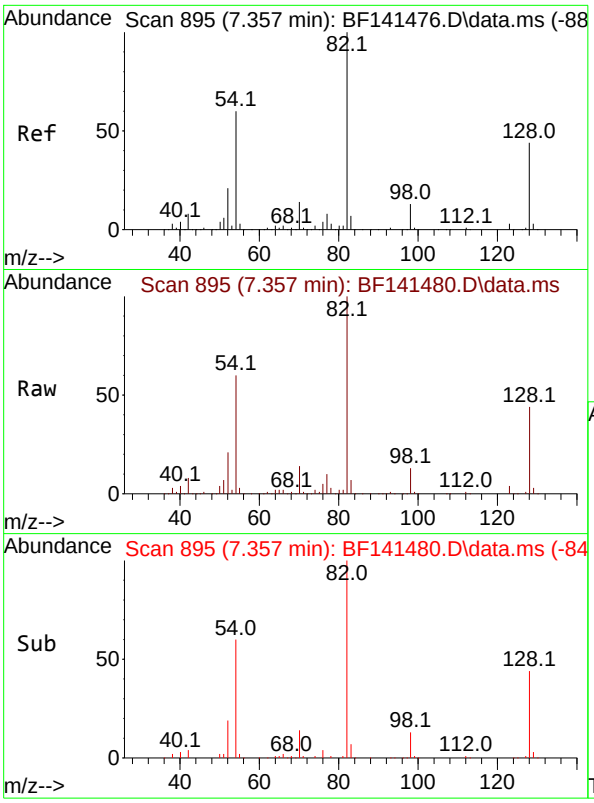


#22
Acetophenone
Concen: 39.246 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:105 Resp: 353867

Ion	Ratio	Lower	Upper
105	100		
71	7.1	5.7	8.5
51	42.3	33.7	50.5
120	21.6	17.0	25.6



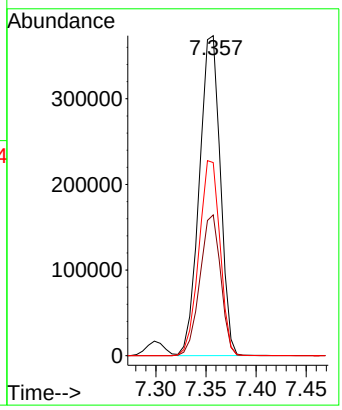


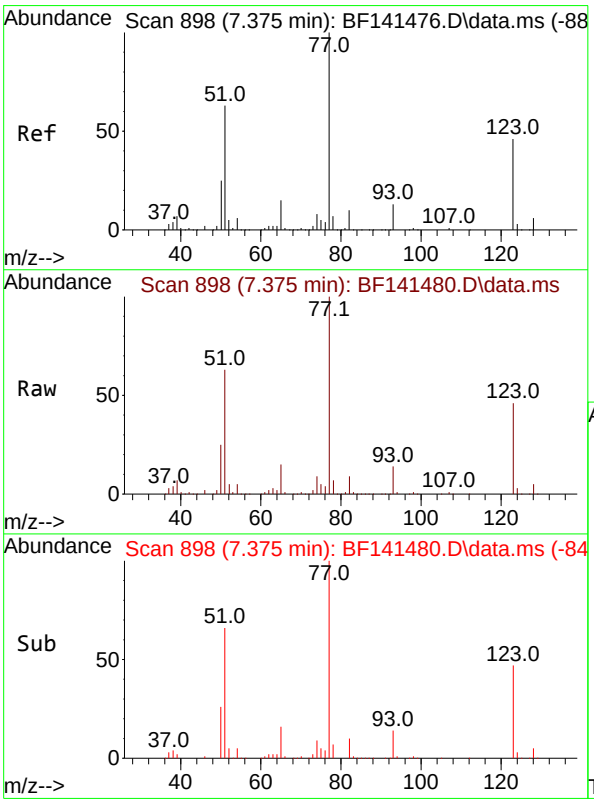
#23
Nitrobenzene-d5
Concen: 78.369 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 82 Resp: 544613

Ion	Ratio	Lower	Upper
82	100		
128	44.0	34.8	52.2
54	60.4	48.2	72.4

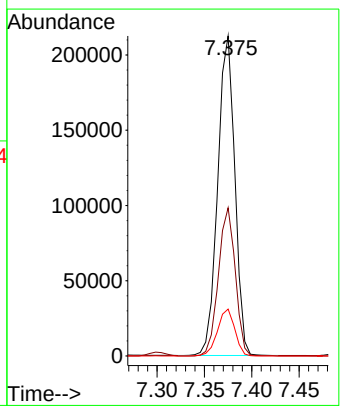


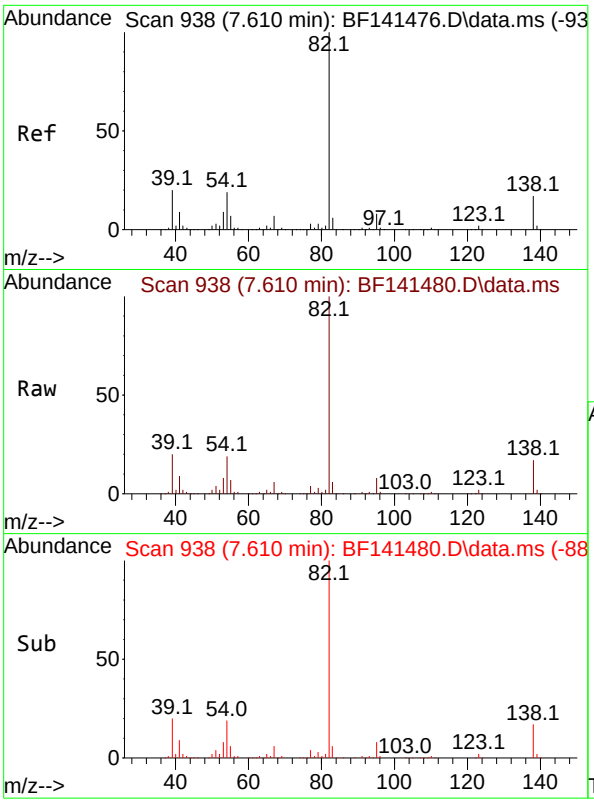


#24
Nitrobenzene
Concen: 39.429 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 77 Resp: 267193

Ion	Ratio	Lower	Upper
77	100		
123	46.3	36.9	55.3
65	14.6	11.9	17.9



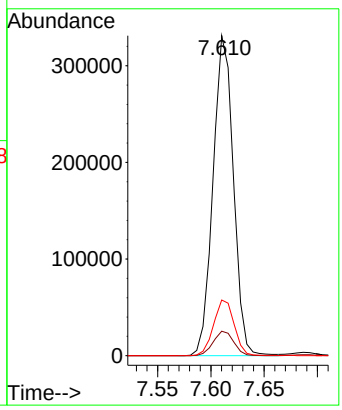


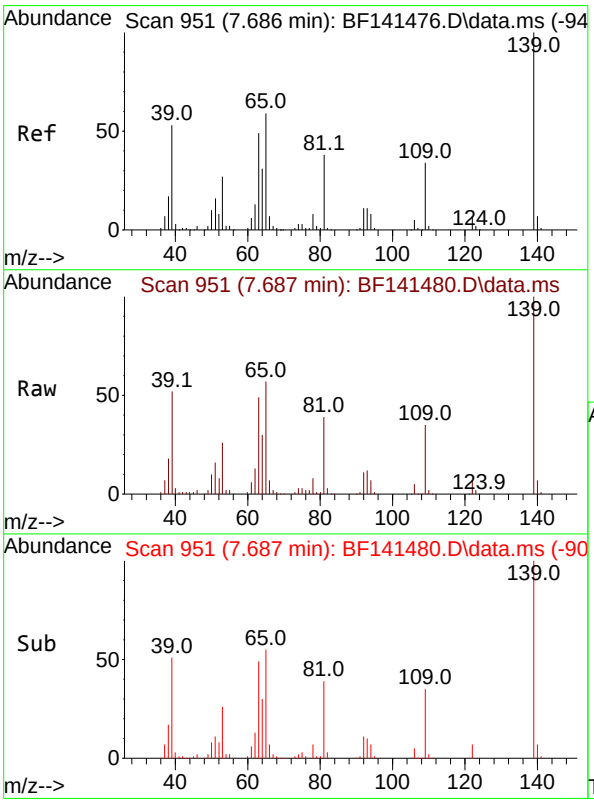
#25
Isophorone
Concen: 39.767 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 82 Resp: 440640

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	17.4	13.9	20.9

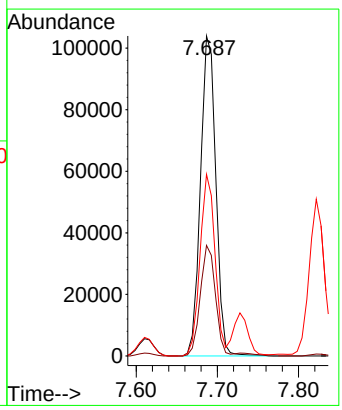


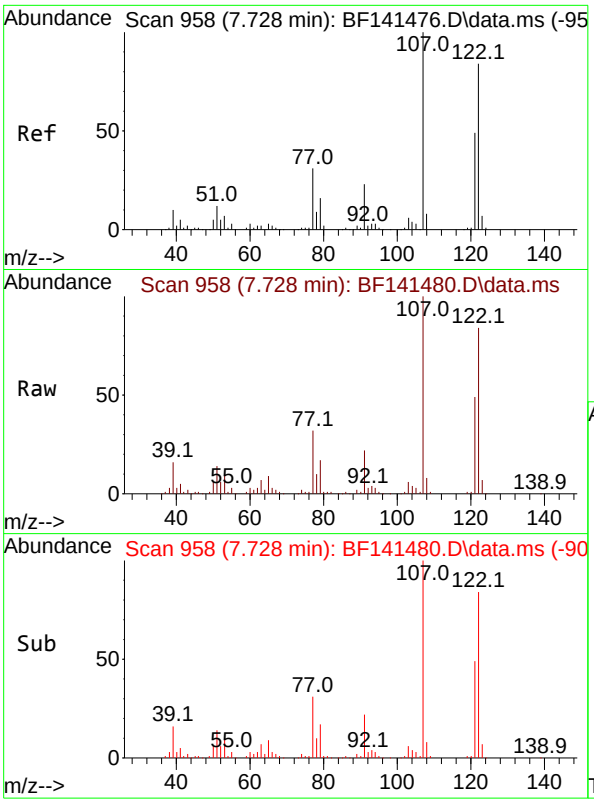


#26
2-Nitrophenol
Concen: 40.413 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:139 Resp: 136248

Ion	Ratio	Lower	Upper
139	100		
109	34.6	27.0	40.6
65	56.7	47.1	70.7



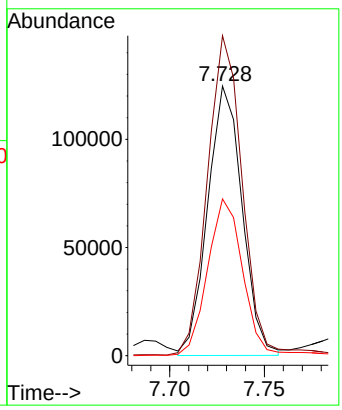


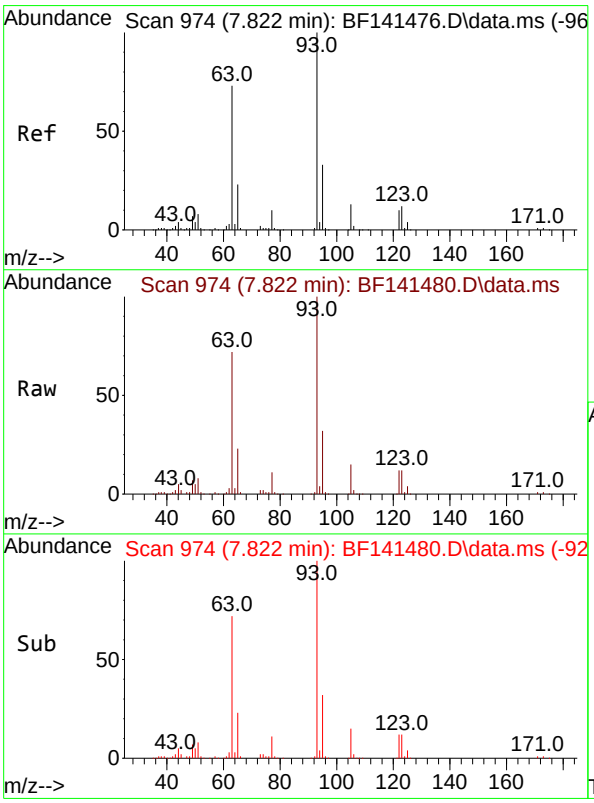
#27
2,4-Dimethylphenol
Concen: 39.924 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:122 Resp: 157242

Ion	Ratio	Lower	Upper
122	100		
107	118.7	94.3	141.5
121	58.2	46.0	69.0

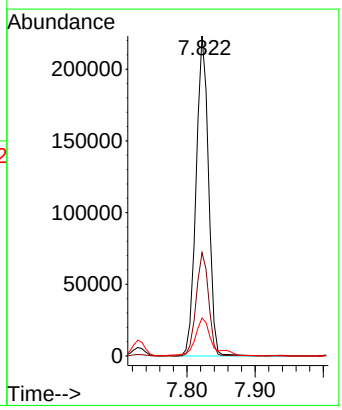


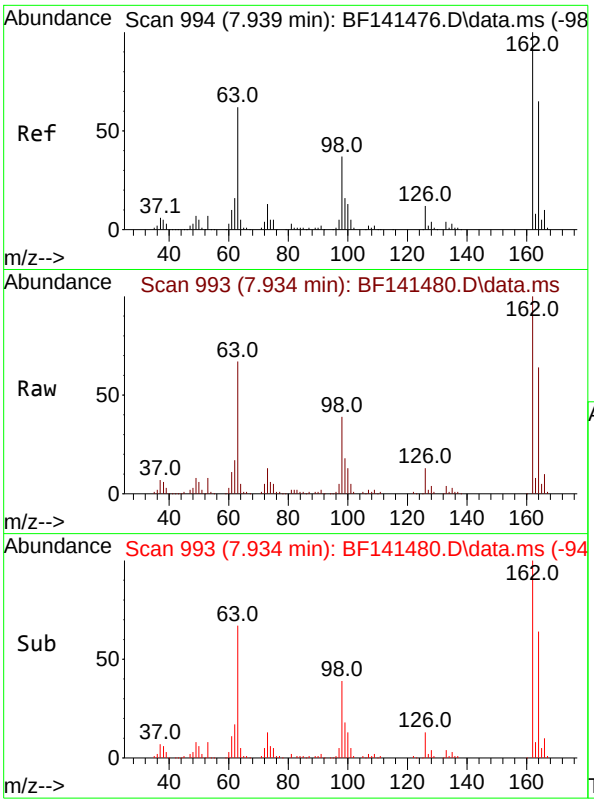


#28
bis(2-Chloroethoxy)methane
Concen: 39.822 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 93 Resp: 282744

Ion	Ratio	Lower	Upper
93	100		
95	32.3	26.1	39.1
123	11.9	9.5	14.3



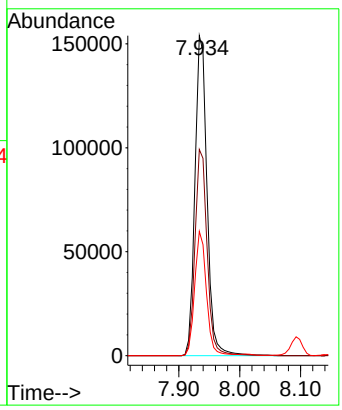


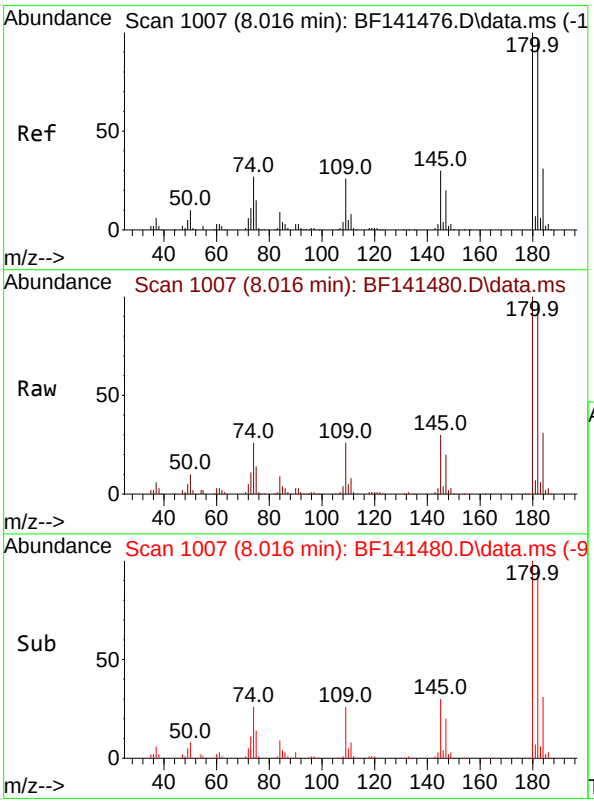
#29
2,4-Dichlorophenol
Concen: 39.818 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:162 Resp: 211891

Ion	Ratio	Lower	Upper
162	100		
164	64.5	44.6	84.6
98	38.9	17.2	57.2

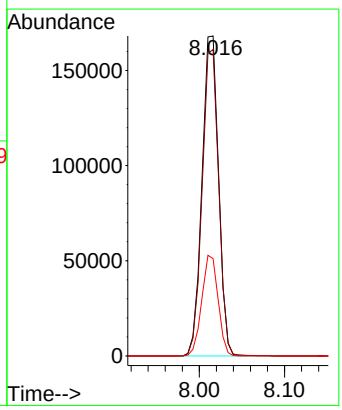


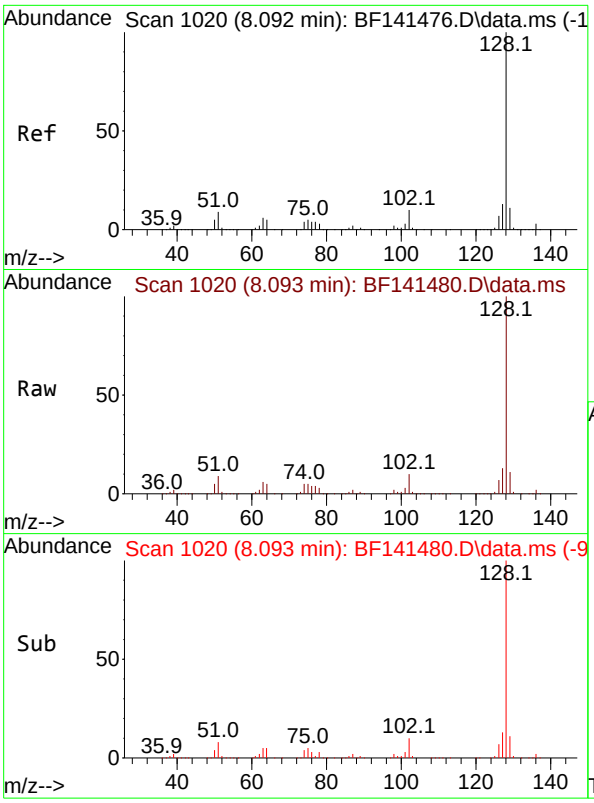


#30
1,2,4-Trichlorobenzene
Concen: 39.237 ng
RT: 8.016 min Scan# 1007
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:180 Resp: 227379

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.8	115.2
145	30.4	24.2	36.4



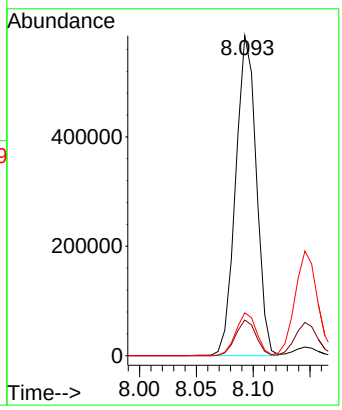


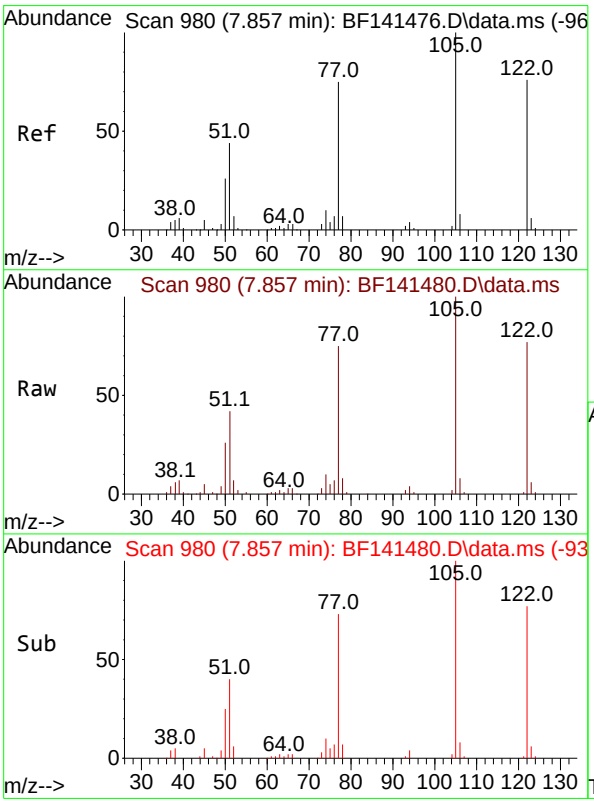
#31
Naphthalene
Concen: 39.287 ng
RT: 8.093 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:128 Resp: 741255

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.7	16.1

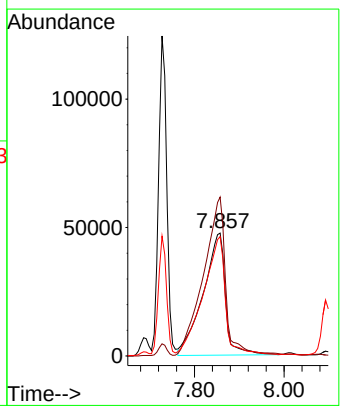


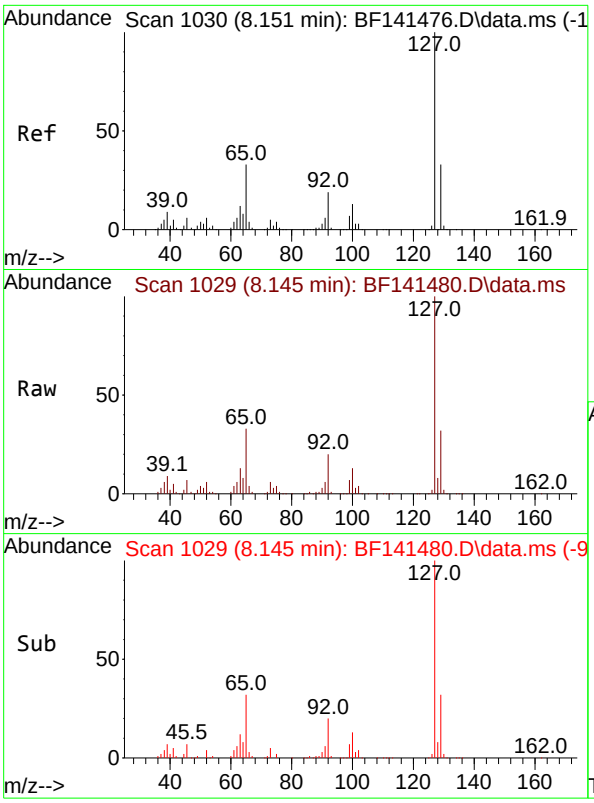


#32
Benzoic acid
Concen: 40.324 ng
RT: 7.857 min Scan# 980
Delta R.T. -0.035 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:122 Resp: 164966

Ion	Ratio	Lower	Upper
122	100		
105	129.3	106.5	146.5
77	97.2	76.3	116.3



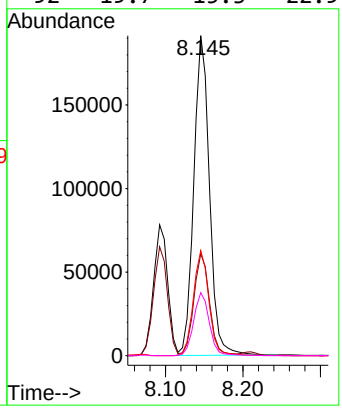


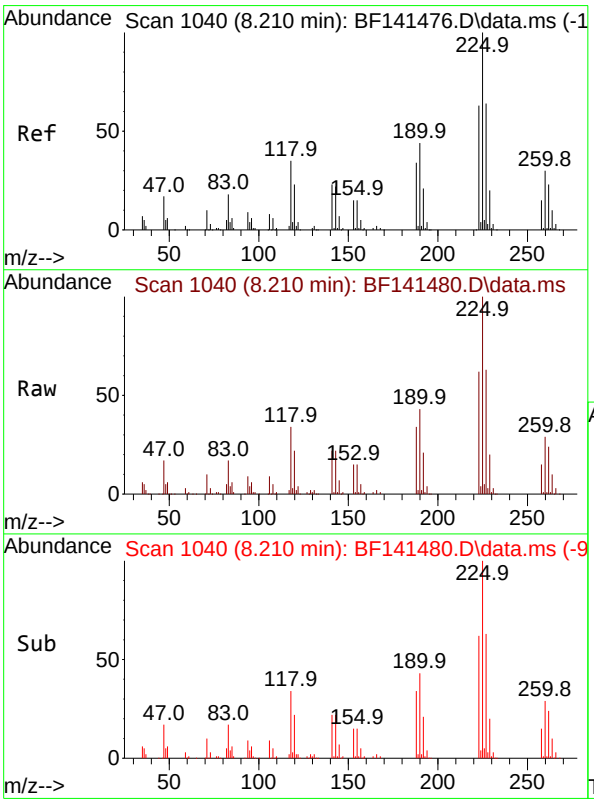
#33
4-Chloroaniline
Concen: 40.680 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:127 Resp: 267977

Ion	Ratio	Lower	Upper
127	100		
129	31.9	26.5	39.7
65	32.9	26.4	39.6
92	19.7	15.3	22.9

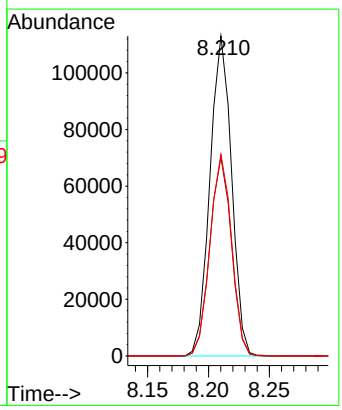


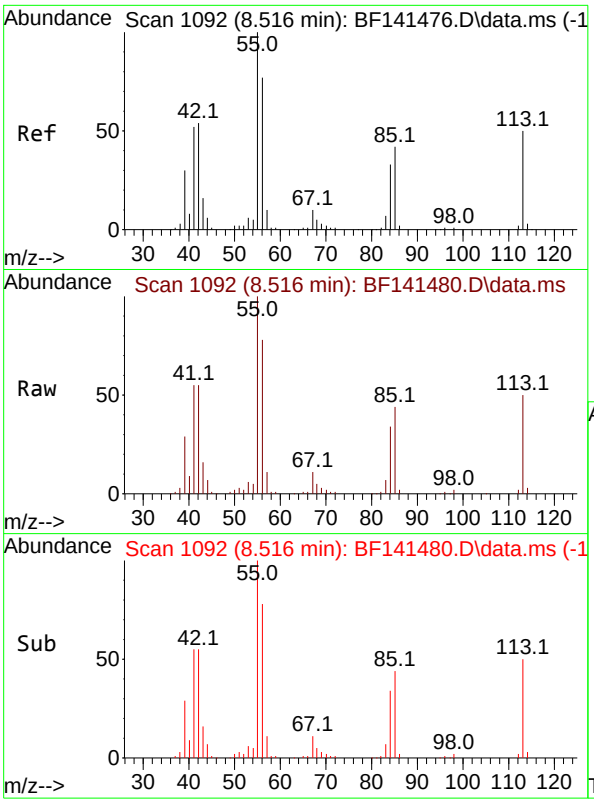


#34
Hexachlorobutadiene
Concen: 40.144 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:225 Resp: 139658

Ion	Ratio	Lower	Upper
225	100		
223	62.0	50.1	75.1
227	63.0	51.0	76.6



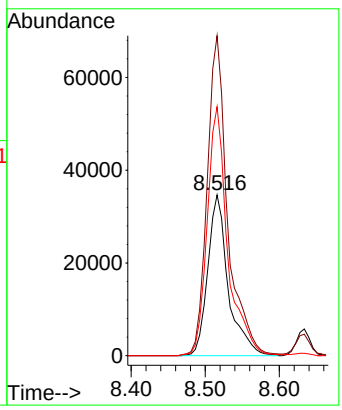


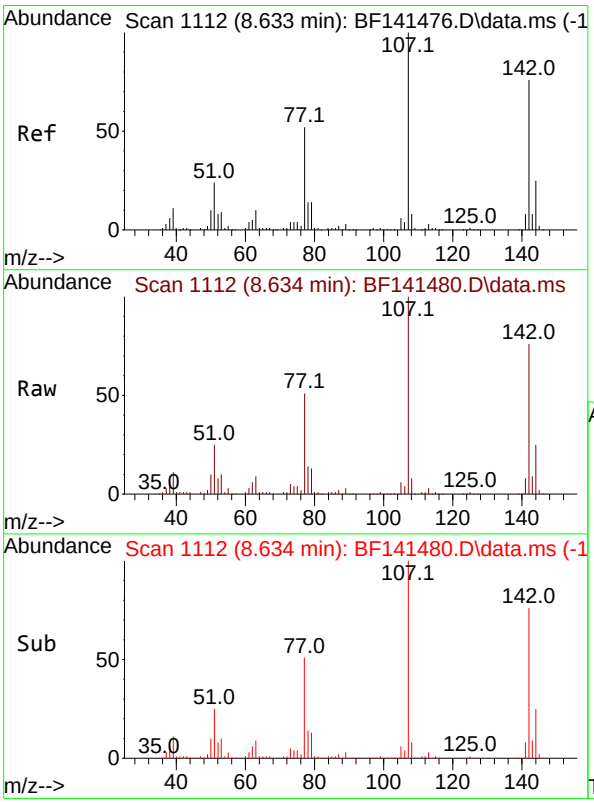
#35
Caprolactam
Concen: 41.104 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:113 Resp: 66599

Ion	Ratio	Lower	Upper
113	100		
55	199.0	180.8	220.8
56	154.8	133.6	173.6

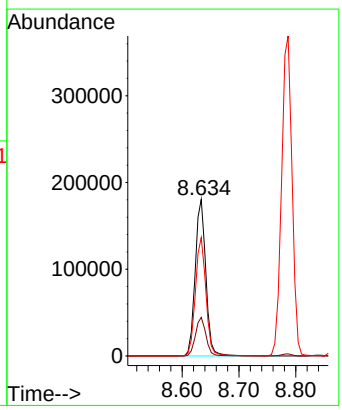


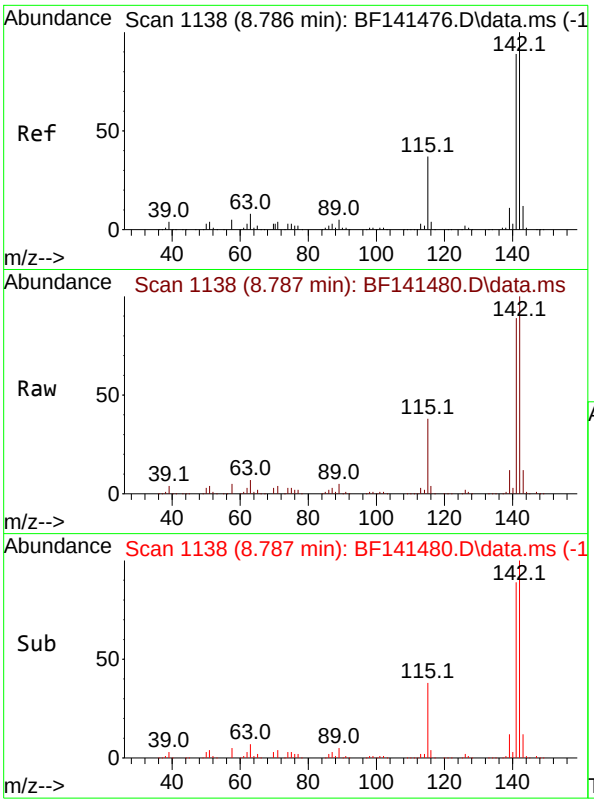


#36
4-Chloro-3-methylphenol
Concen: 40.006 ng
RT: 8.634 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:107 Resp: 235824

Ion	Ratio	Lower	Upper
107	100		
144	24.7	19.7	29.5
142	75.6	60.8	91.2



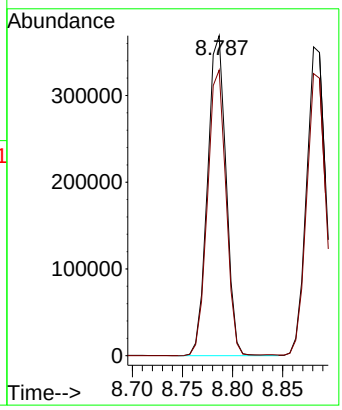


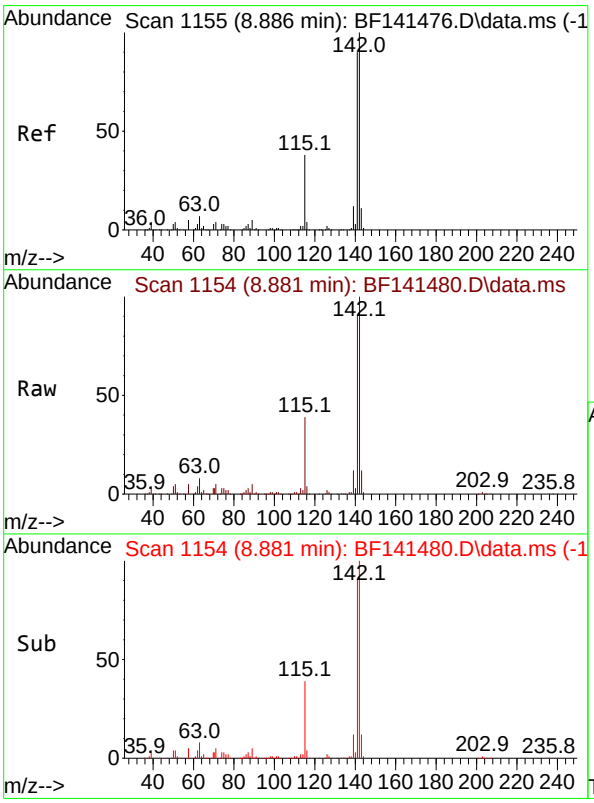
#37
2-Methylnaphthalene
Concen: 38.710 ng
RT: 8.787 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:142 Resp: 475273

Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.2	106.8

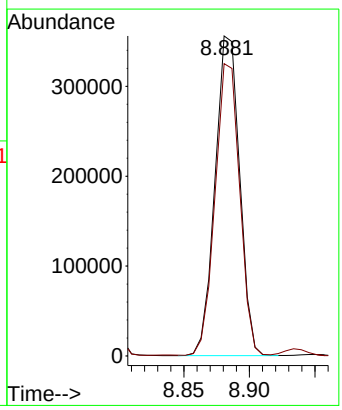


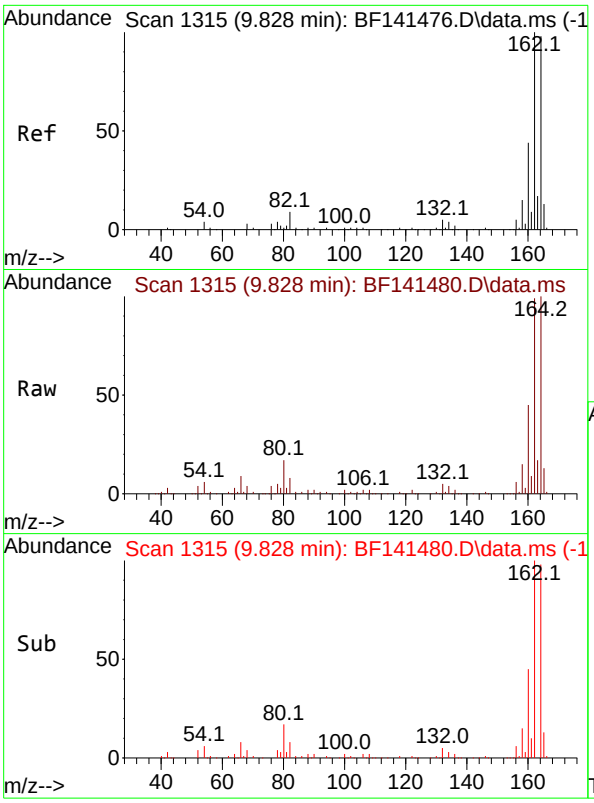


#38
1-Methylnaphthalene
Concen: 39.049 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:142 Resp: 464346

Ion	Ratio	Lower	Upper
142	100		
141	91.3	72.1	108.1



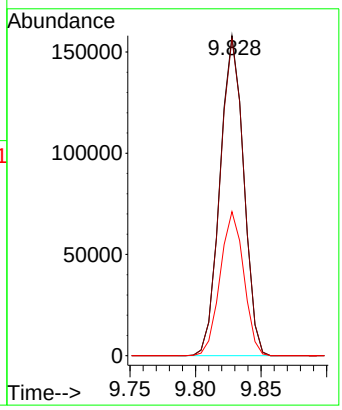


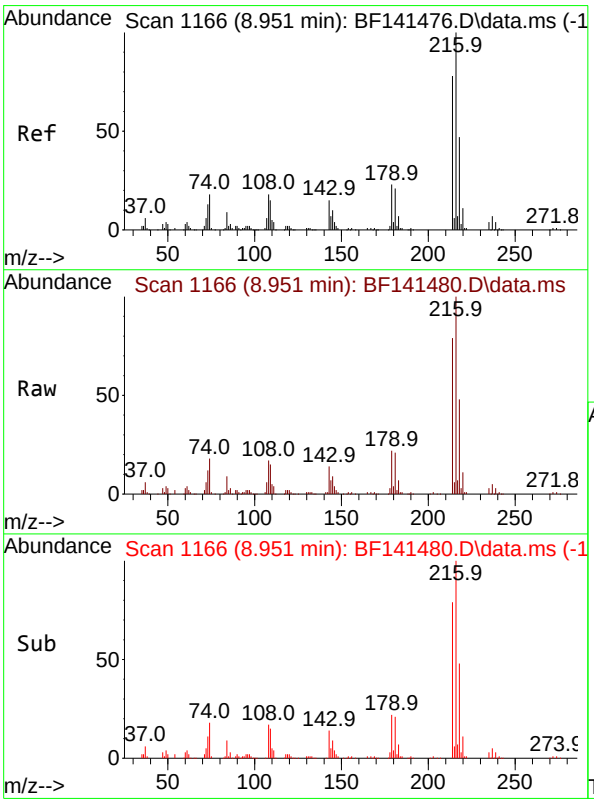
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:164 Resp: 197991

Ion	Ratio	Lower	Upper
164	100		
162	99.1	81.3	121.9
160	45.0	35.9	53.9

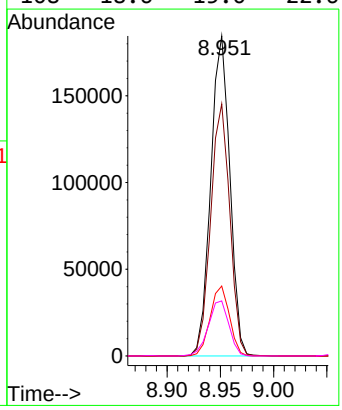


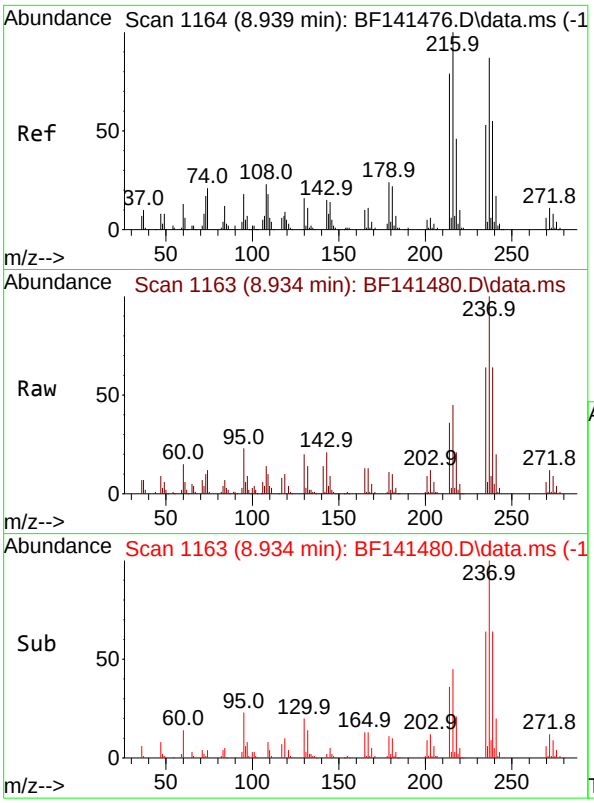


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.182 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:216 Resp: 230166

Ion	Ratio	Lower	Upper
216	100		
214	78.9	62.3	93.5
179	22.1	18.0	27.0
108	18.6	15.0	22.6



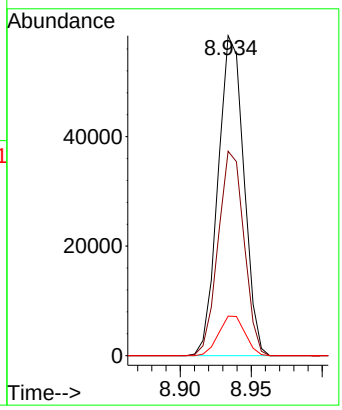


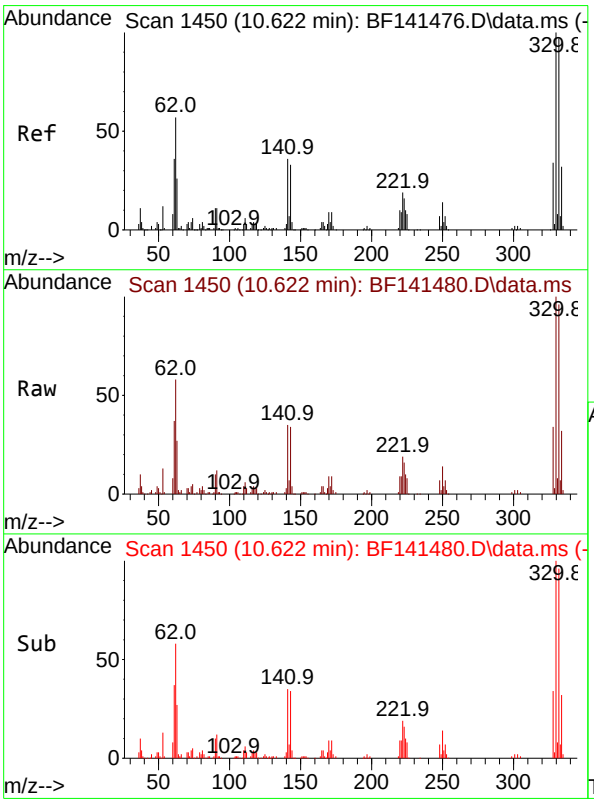
#41
Hexachlorocyclopentadiene
Concen: 38.754 ng
RT: 8.934 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:237 Resp: 73834

Ion	Ratio	Lower	Upper
237	100		
235	63.9	41.4	81.4
272	12.4	0.0	32.4

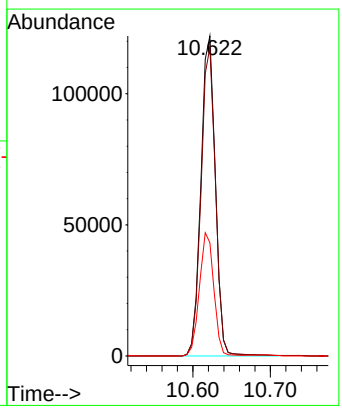


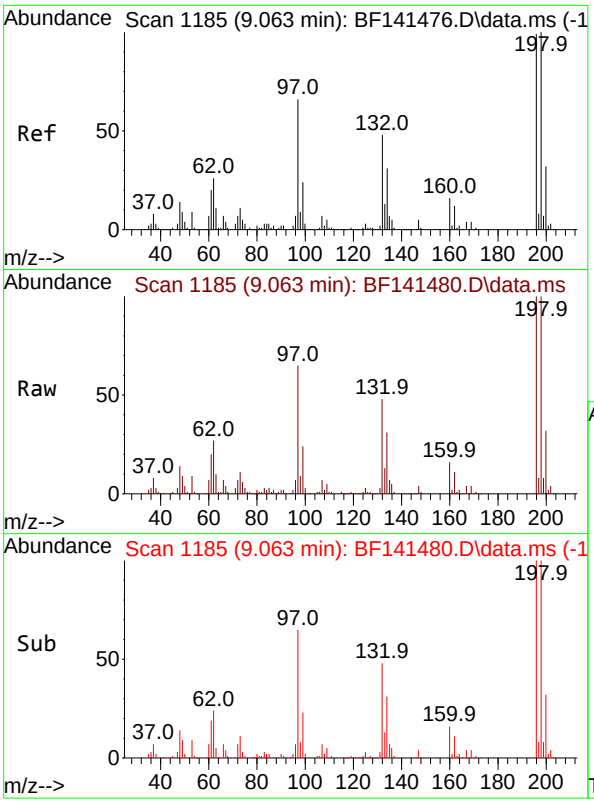


#42
2,4,6-Tribromophenol
Concen: 79.490 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:330 Resp: 158098

Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.5	117.7
141	38.4	31.0	46.4



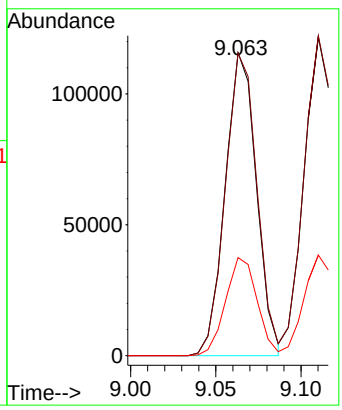


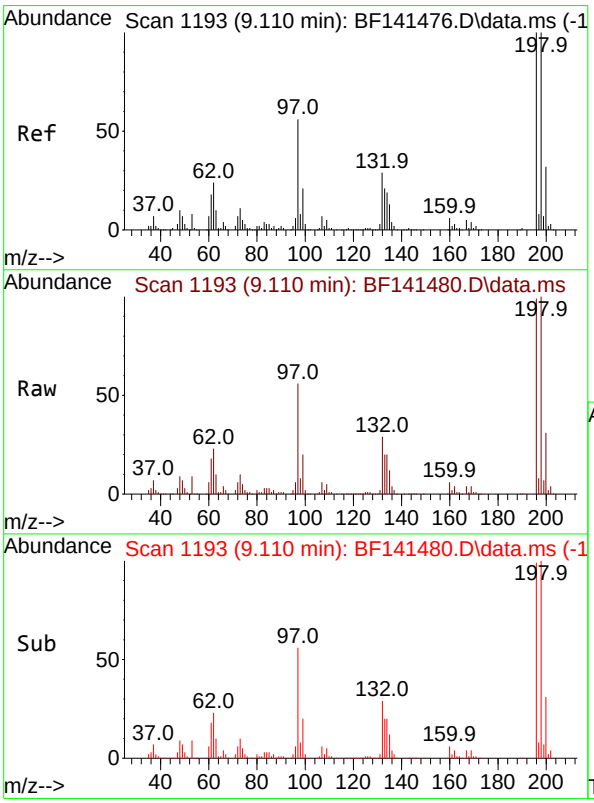
#43
2,4,6-Trichlorophenol
Concen: 39.914 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:196 Resp: 147770

Ion	Ratio	Lower	Upper
196	100		
198	99.8	80.6	121.0
200	32.3	25.5	38.3

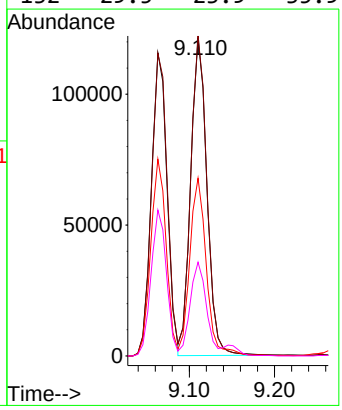


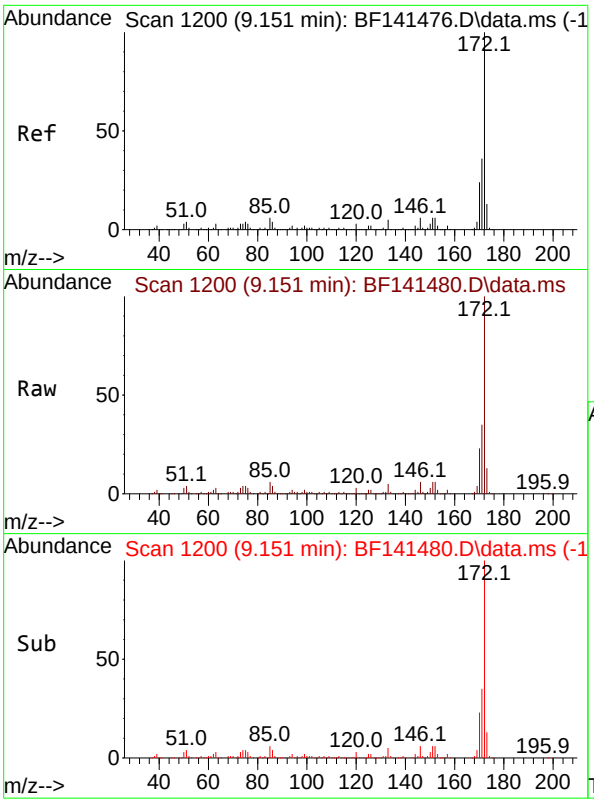


#44
2,4,5-Trichlorophenol
Concen: 40.108 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:196 Resp: 160926

Ion	Ratio	Lower	Upper
196	100		
198	100.5	79.8	119.8
97	55.8	44.8	67.2
132	29.5	23.9	35.9



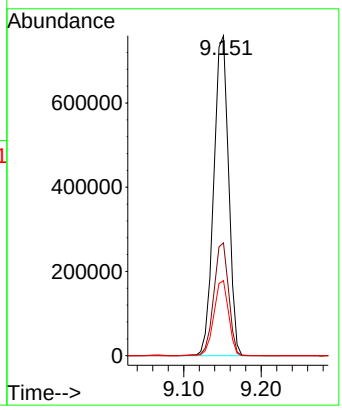


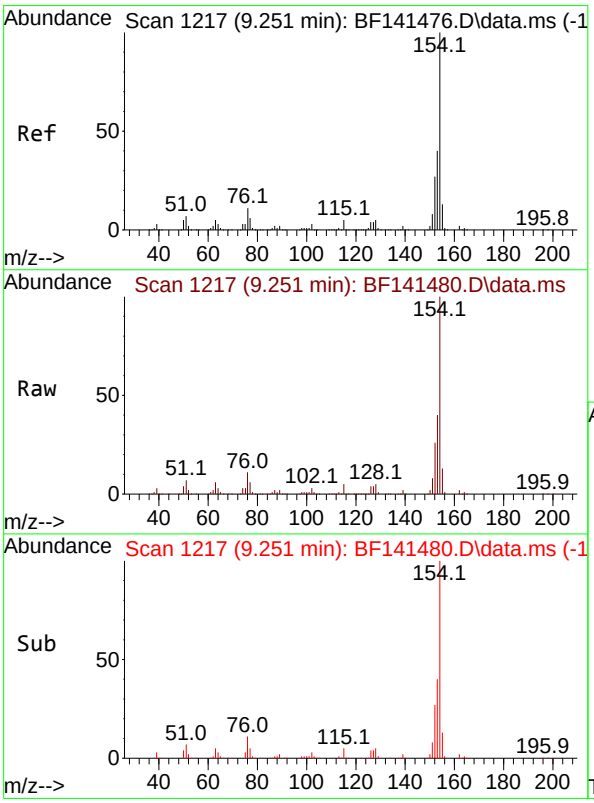
#45
2-Fluorobiphenyl
Concen: 78.786 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:172 Resp: 1012492

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.7	43.1
170	23.4	18.9	28.3

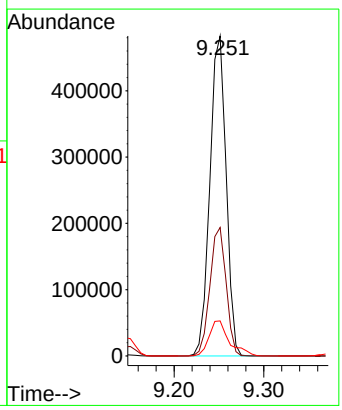


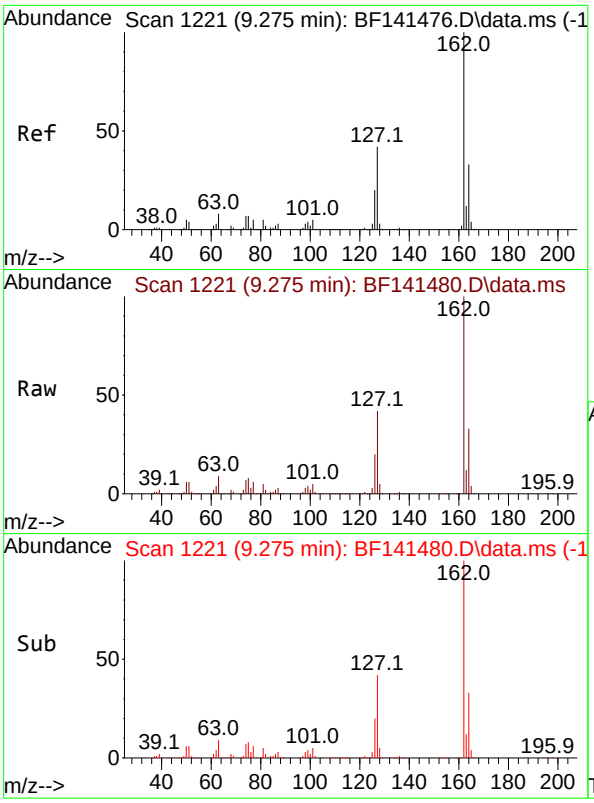


#46
1,1'-Biphenyl
Concen: 39.519 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:154 Resp: 606611

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.4	60.4
76	10.9	0.0	30.8



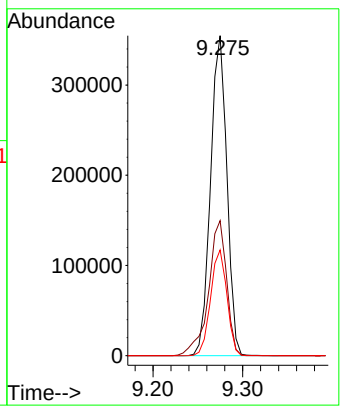


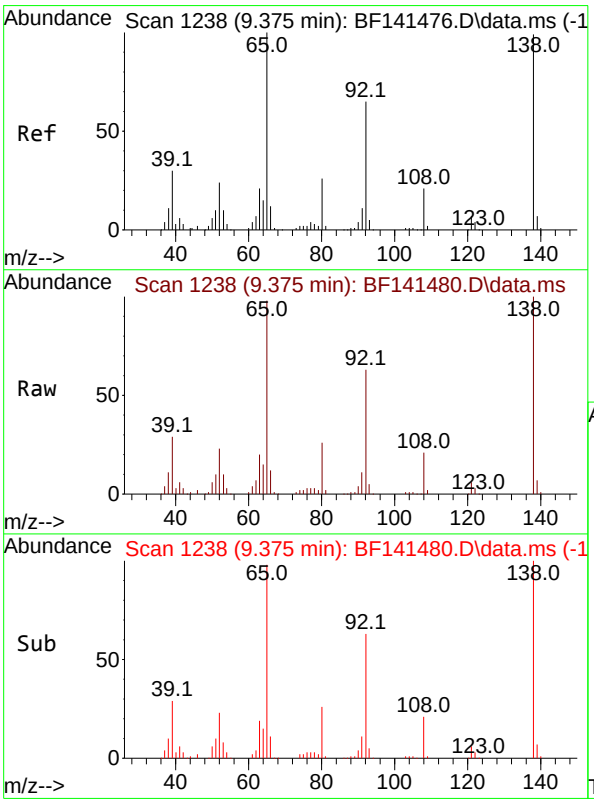
#47
2-Chloronaphthalene
Concen: 39.453 ng
RT: 9.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:162 Resp: 447817

Ion	Ratio	Lower	Upper
162	100		
127	42.2	34.1	51.1
164	33.1	26.3	39.5

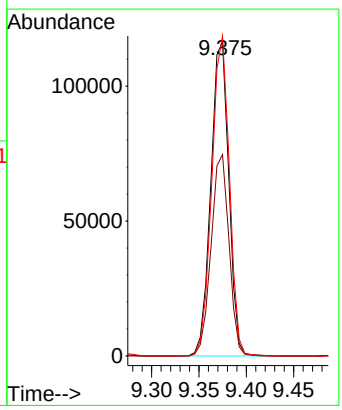


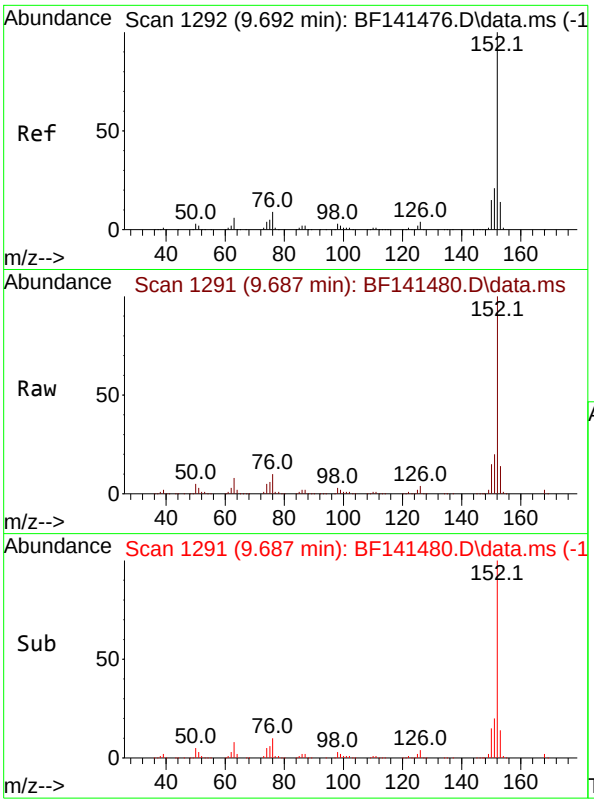


#48
2-Nitroaniline
Concen: 40.451 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 65 Resp: 154092

Ion	Ratio	Lower	Upper
65	100		
92	64.2	52.2	78.2
138	101.9	79.5	119.3



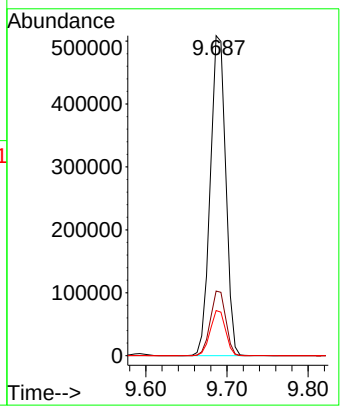


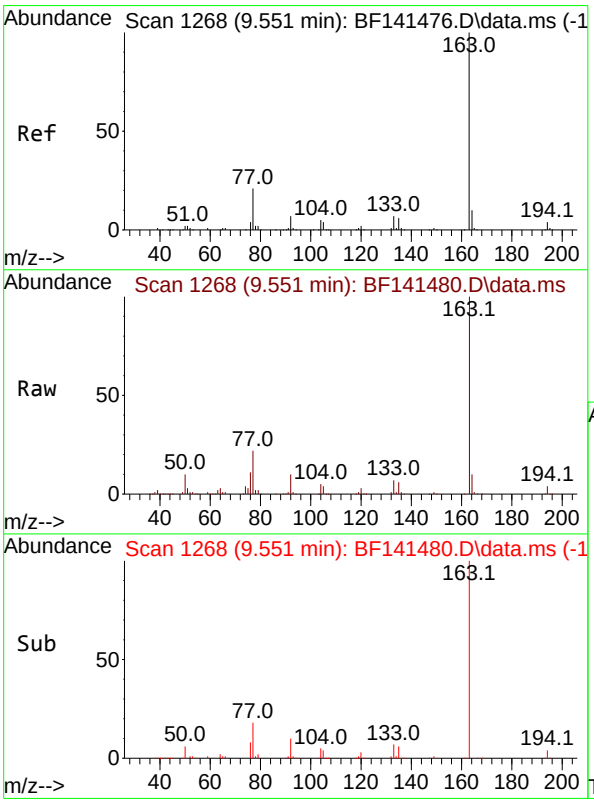
#49
Acenaphthylene
Concen: 39.734 ng
RT: 9.687 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:152 Resp: 670833

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	14.1	10.9	16.3

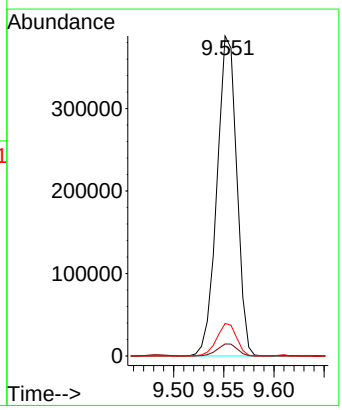


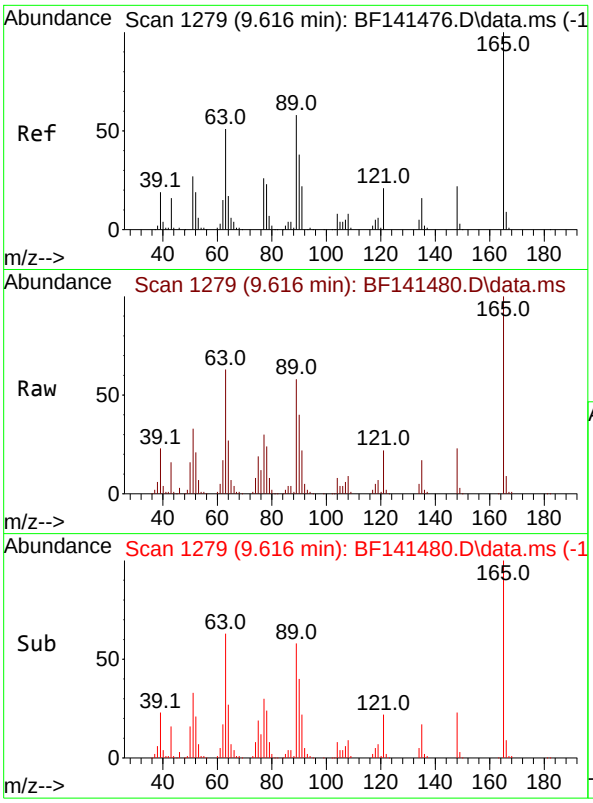


#50
Dimethylphthalate
Concen: 39.488 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:163 Resp: 530769

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.2	7.9	11.9



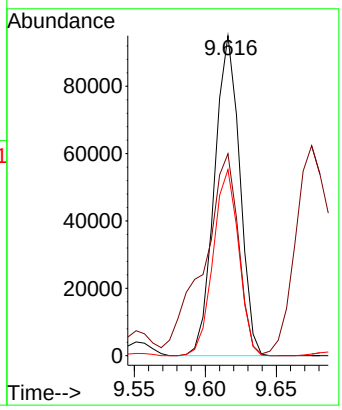


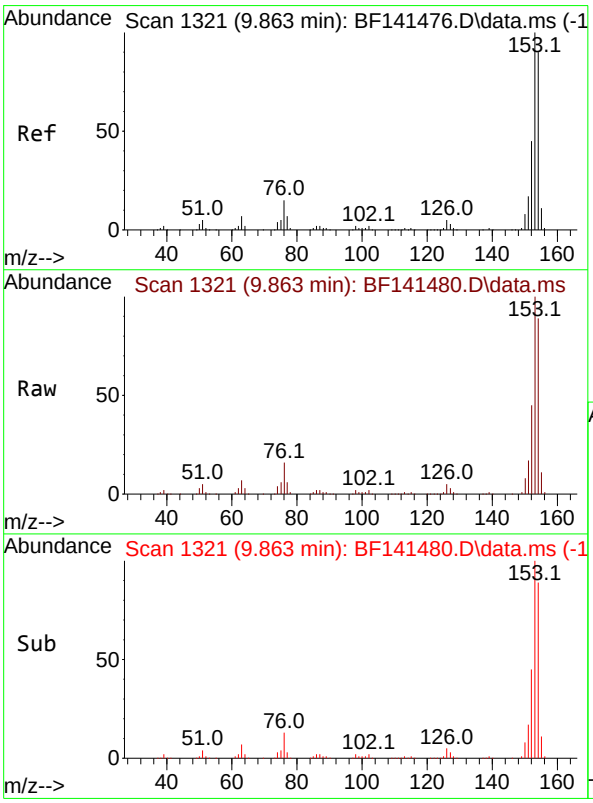
#51
2,6-Dinitrotoluene
Concen: 39.965 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:165 Resp: 117431

Ion	Ratio	Lower	Upper
165	100		
63	63.1	49.4	74.0
89	58.2	46.5	69.7

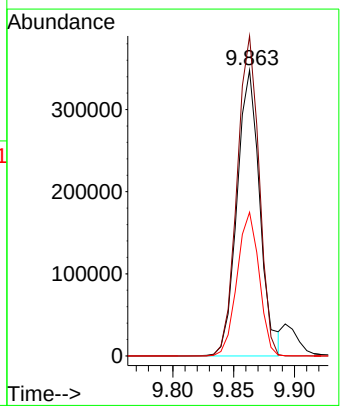


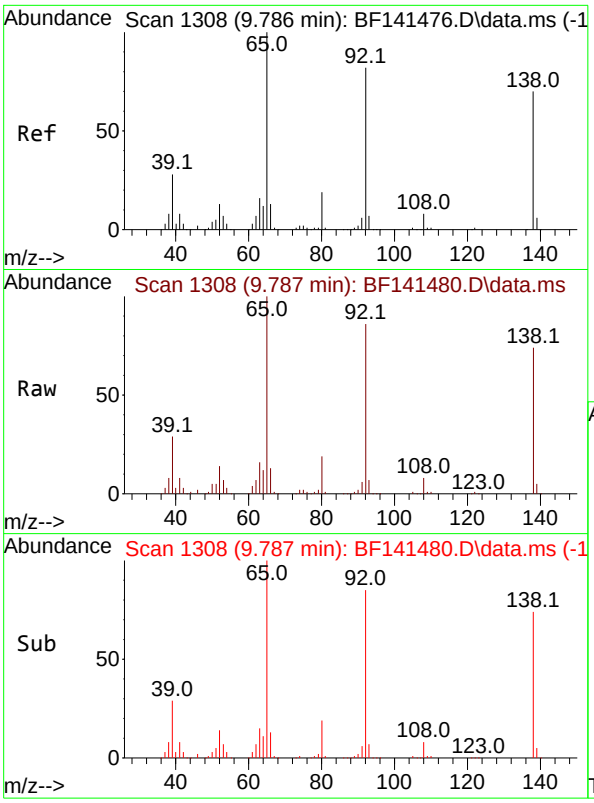


#52
Acenaphthene
Concen: 39.893 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:154 Resp: 452794

Ion	Ratio	Lower	Upper
154	100		
153	112.0	89.2	133.8
152	50.2	39.8	59.8



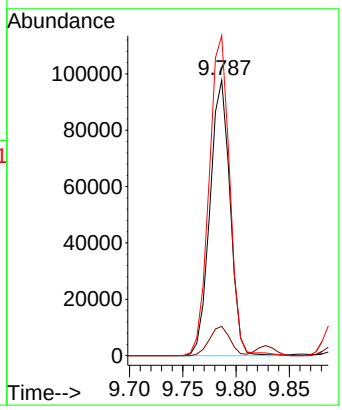


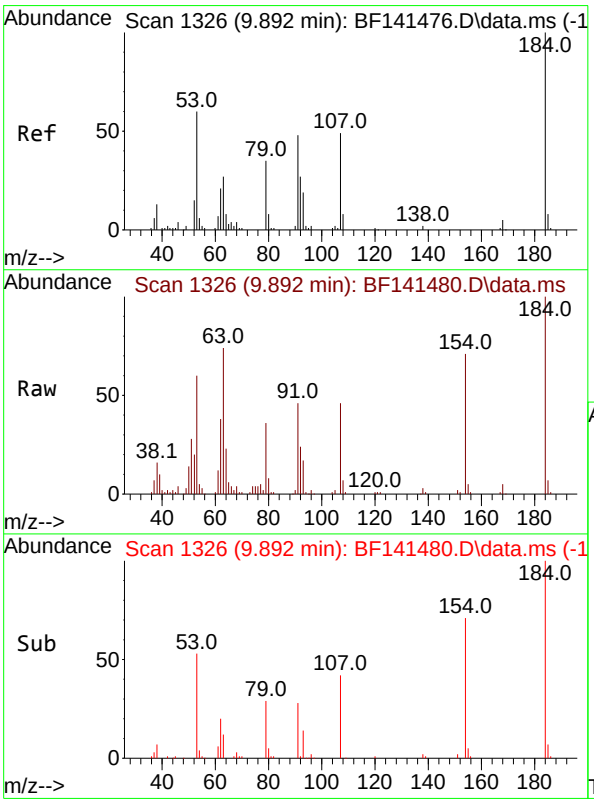
#53
3-Nitroaniline
Concen: 40.463 ng
RT: 9.787 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:138 Resp: 127965

Ion	Ratio	Lower	Upper
138	100		
108	10.7	9.0	13.4
92	116.2	93.7	140.5

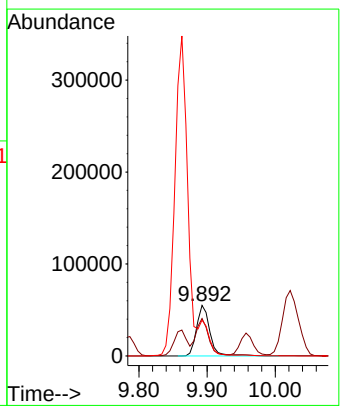


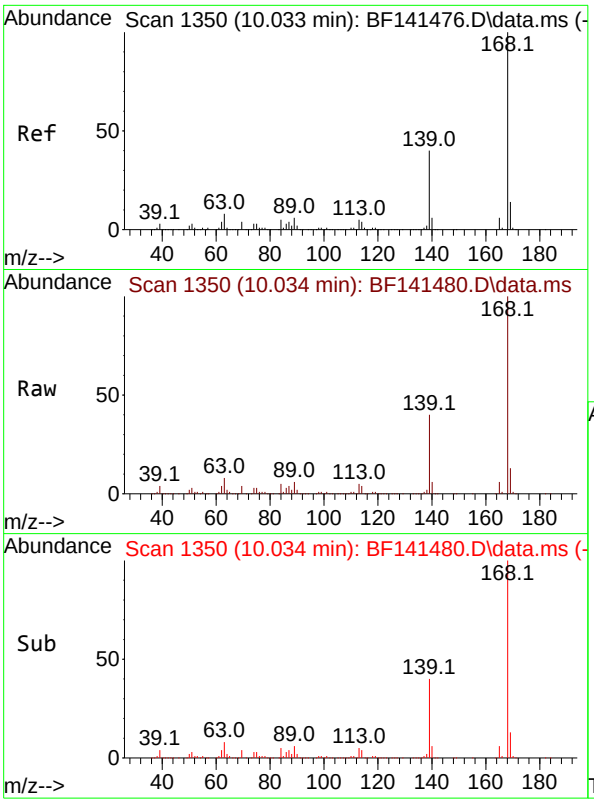


#54
2,4-Dinitrophenol
Concen: 42.639 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:184 Resp: 74461

Ion	Ratio	Lower	Upper
184	100		
63	74.2	61.0	91.6
154	71.0	59.9	89.9



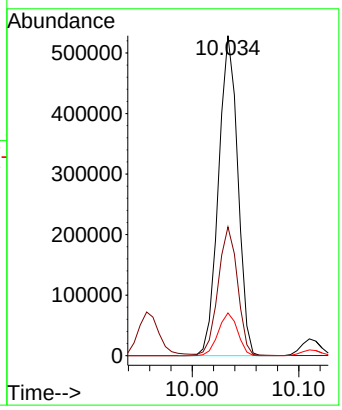


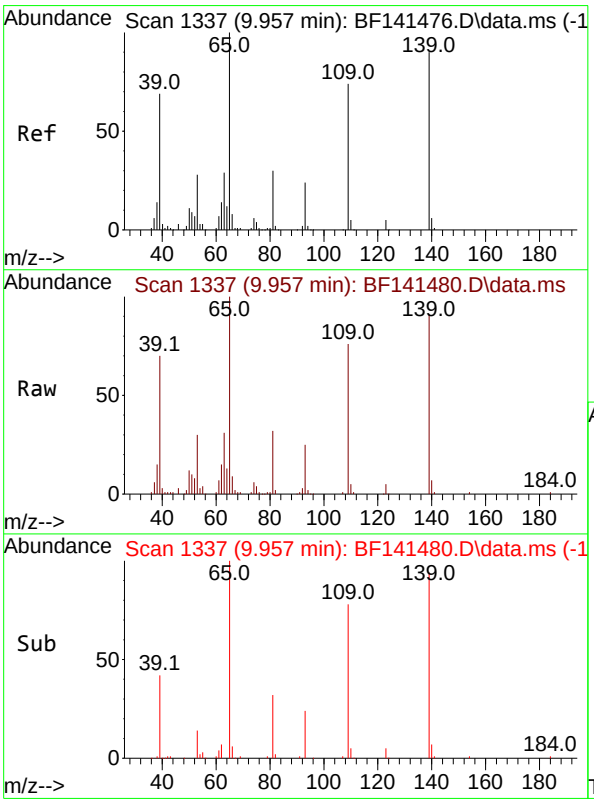
#55
Dibenzofuran
Concen: 39.860 ng
RT: 10.034 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:168 Resp: 664069

Ion	Ratio	Lower	Upper
168	100		
139	40.2	32.7	49.1
169	13.4	10.8	16.2

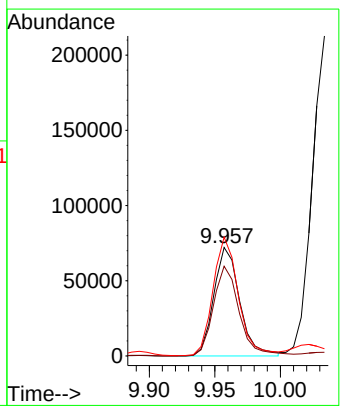


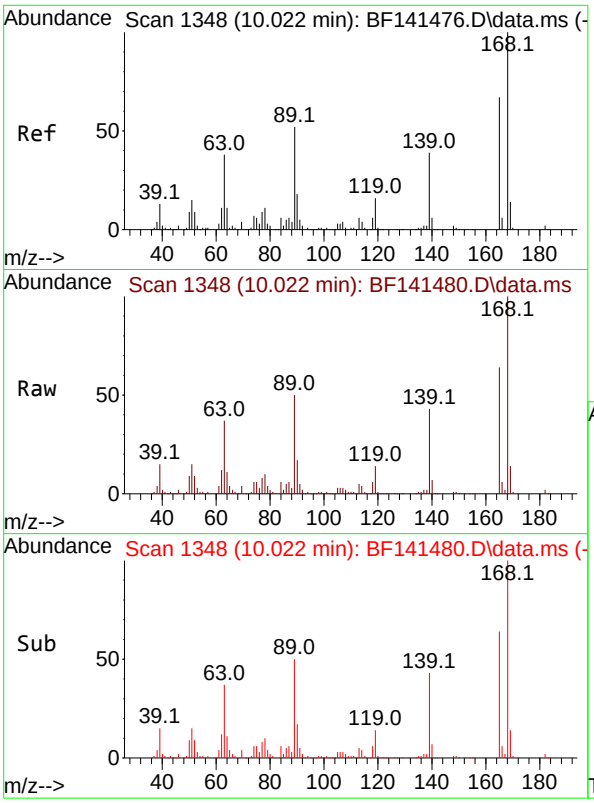


#56
4-Nitrophenol
Concen: 42.166 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.012 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:139 Resp: 98990

Ion	Ratio	Lower	Upper
139	100		
109	82.7	62.0	102.0
65	109.5	91.2	131.2



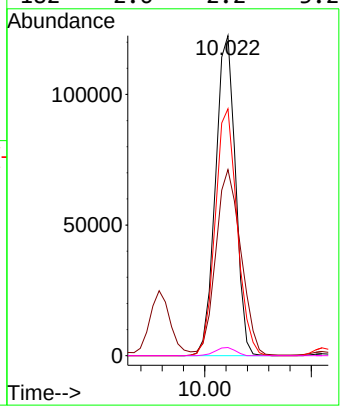


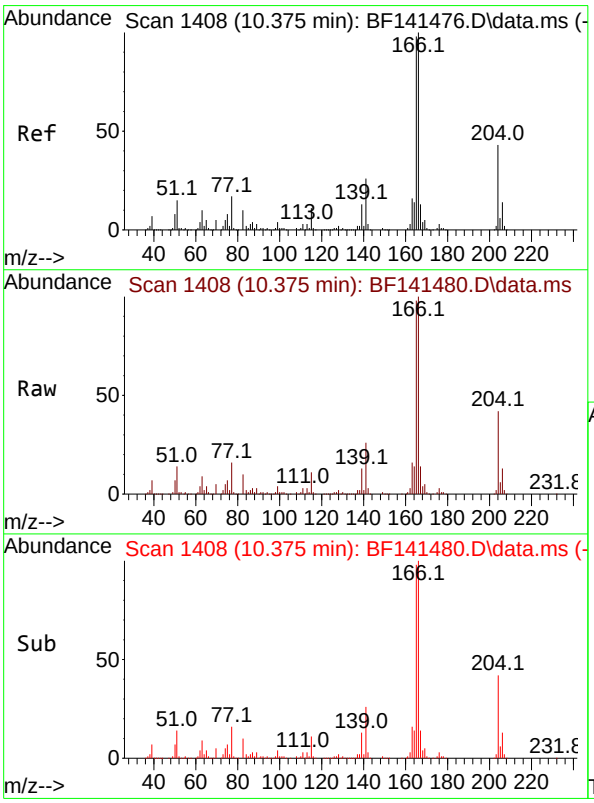
#57
2,4-Dinitrotoluene
Concen: 40.633 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:165 Resp: 158941

Ion	Ratio	Lower	Upper
165	100		
63	58.1	46.4	69.6
89	77.2	61.8	92.6
182	2.6	2.2	3.2

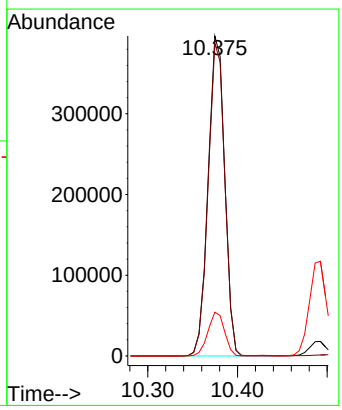


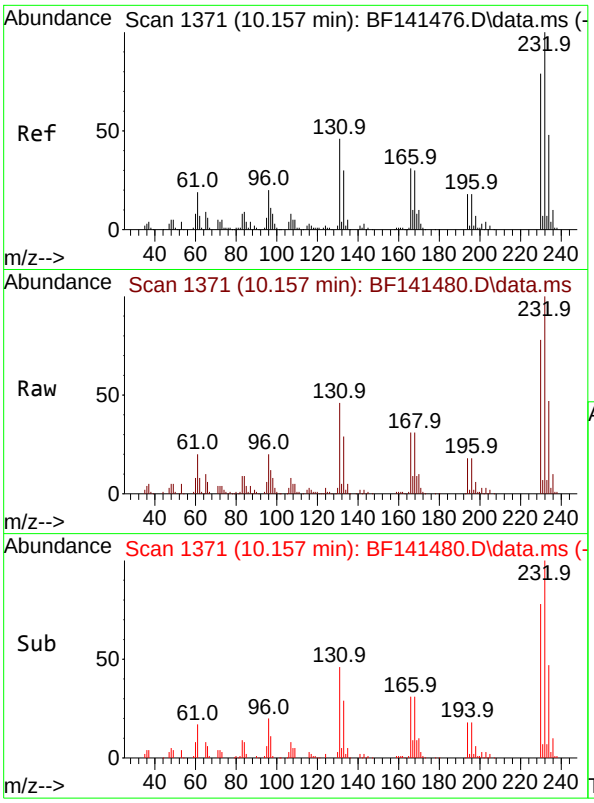


#58
Fluorene
Concen: 39.501 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:166 Resp: 508833

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.2	117.2
167	13.7	10.7	16.1



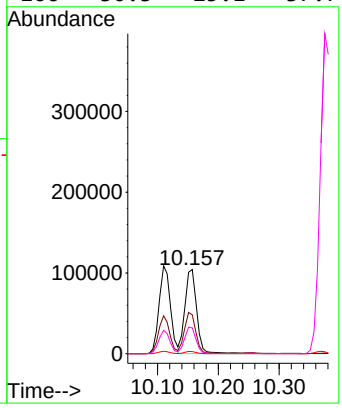


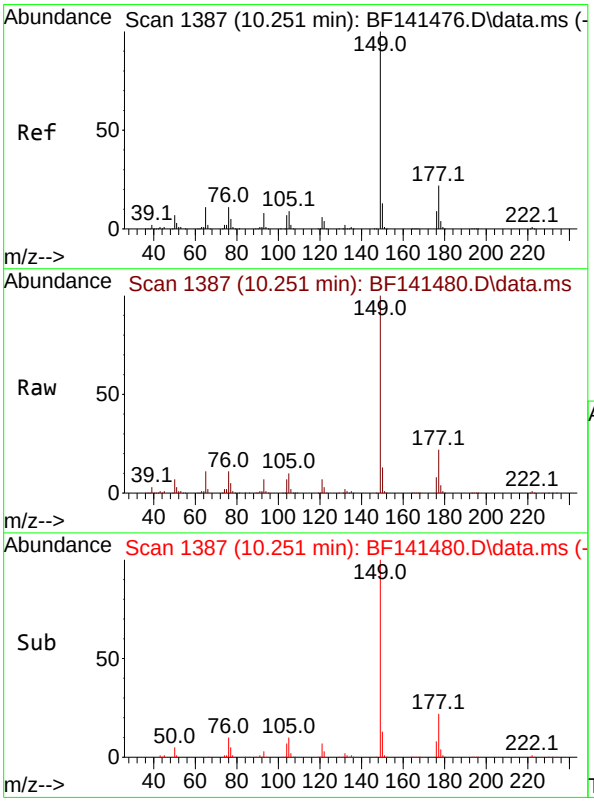
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.438 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:232 Resp: 139688

Ion	Ratio	Lower	Upper
232	100		
131	46.8	39.2	58.8
130	2.6	2.1	3.1
166	30.3	25.1	37.7

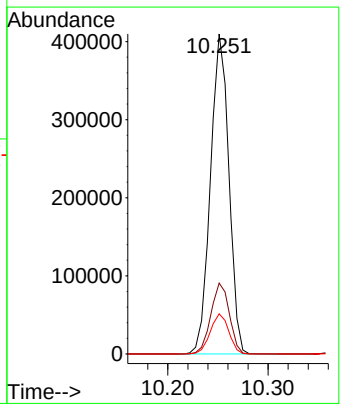


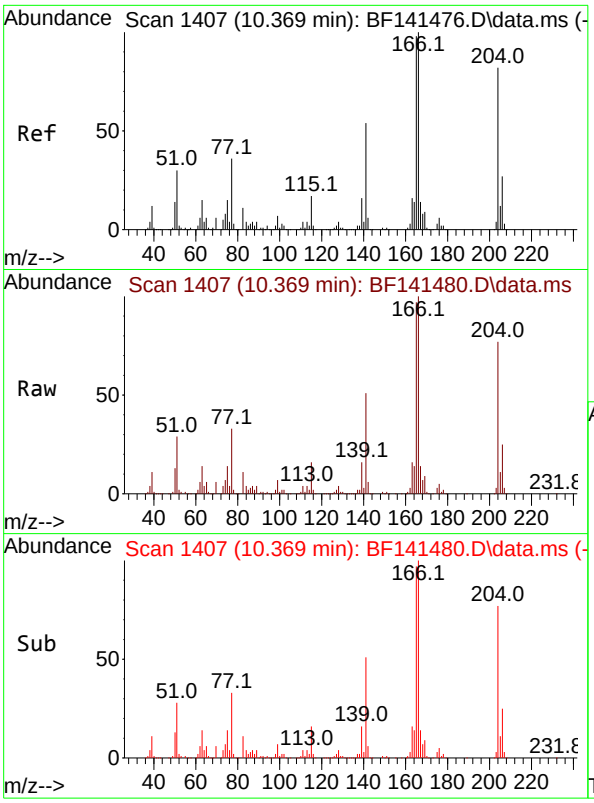


#60
Diethylphthalate
Concen: 39.467 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:149 Resp: 521933

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.6
150	12.6	10.1	15.1



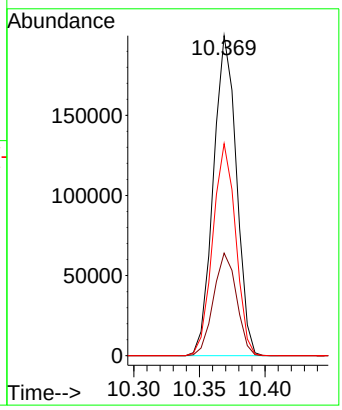


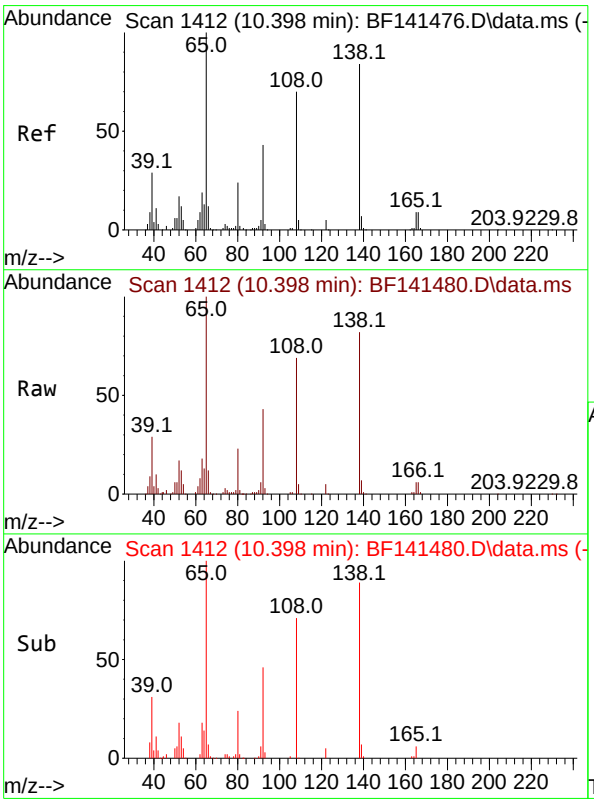
#61
4-Chlorophenyl-phenylether
Concen: 39.318 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:204 Resp: 243659

Ion	Ratio	Lower	Upper
204	100		
206	32.1	26.6	40.0
141	66.2	51.9	77.9

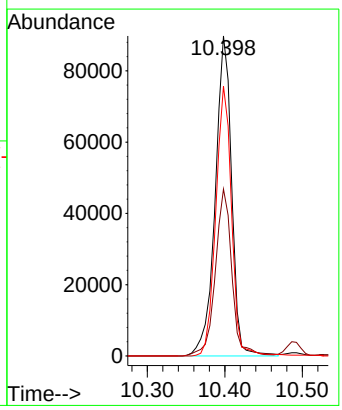


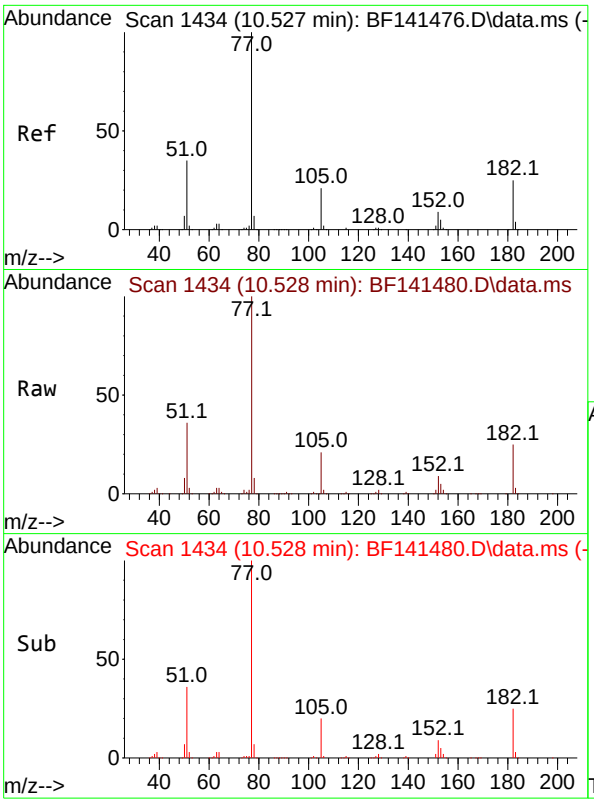


#62
4-Nitroaniline
Concen: 41.124 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.017 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:138 Resp: 132059

Ion	Ratio	Lower	Upper
138	100		
92	52.1	31.3	71.3
108	84.3	63.7	103.7



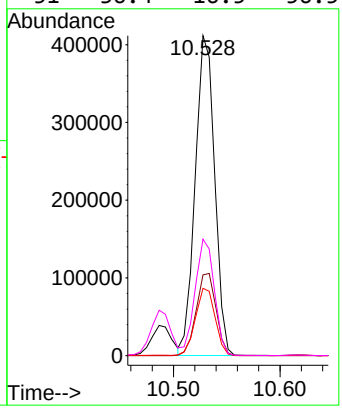


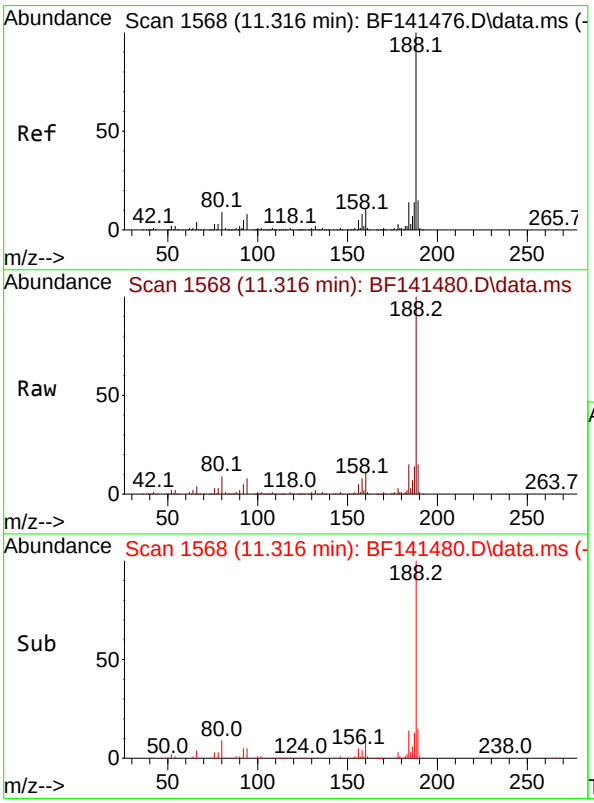
#63
Azobenzene
Concen: 39.759 ng
RT: 10.528 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 77 Resp: 522705

Ion	Ratio	Lower	Upper
77	100		
182	25.2	4.7	44.7
105	21.0	0.4	40.4
51	36.4	16.5	56.5

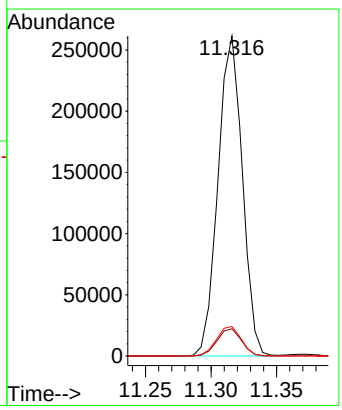


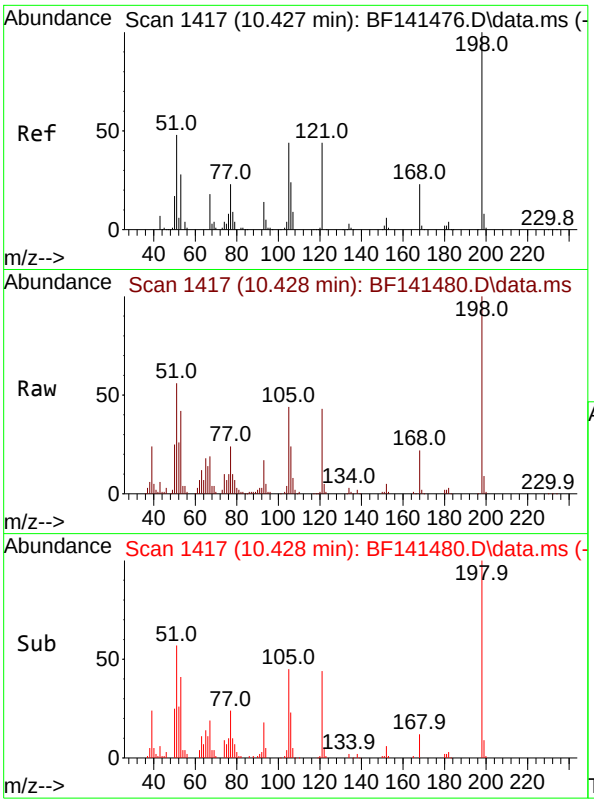


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:188 Resp: 337289

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.2	7.3	10.9



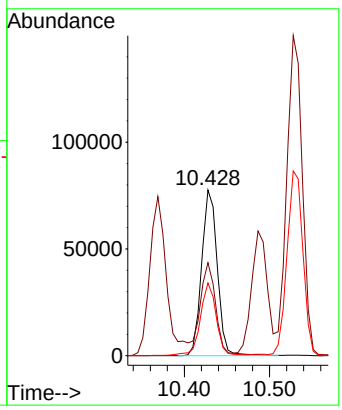


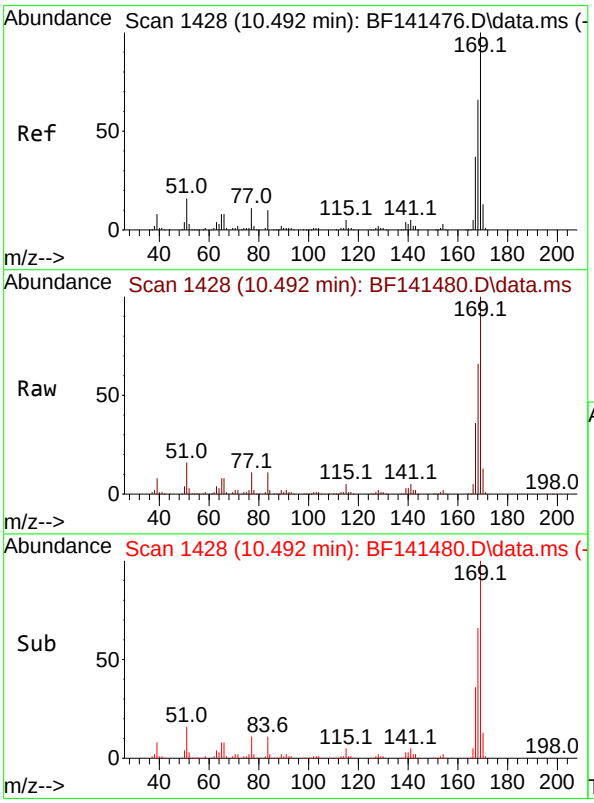
#65
4,6-Dinitro-2-methylphenol
Concen: 42.230 ng
RT: 10.428 min Scan# 14
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:198 Resp: 98944

Ion	Ratio	Lower	Upper
198	100		
51	56.2	37.4	77.4
105	43.9	25.2	65.2

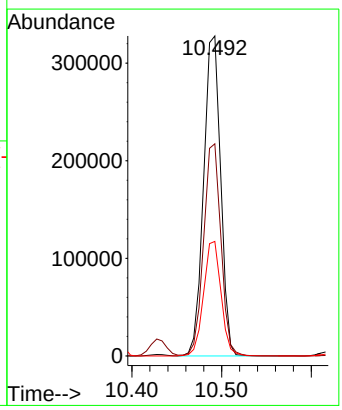


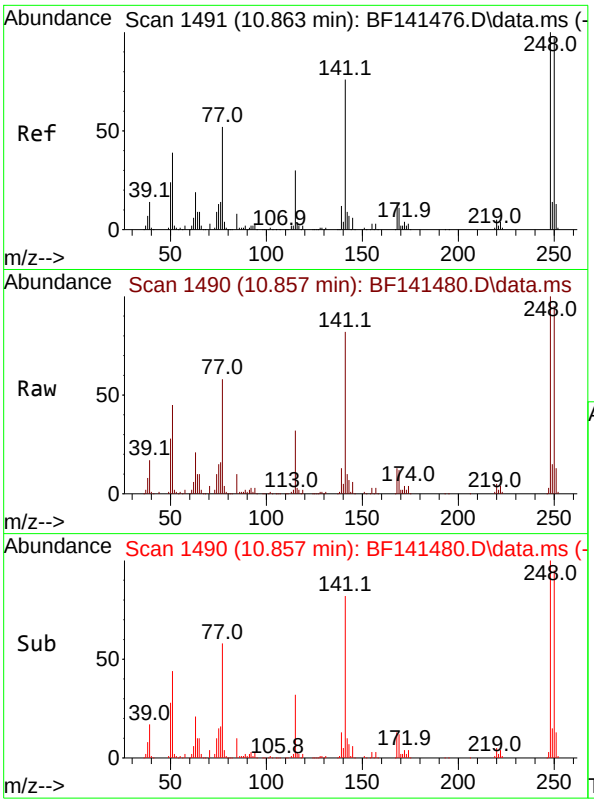


#66
n-Nitrosodiphenylamine
Concen: 40.040 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:169 Resp: 432307

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.3	79.9
167	35.8	29.4	44.2



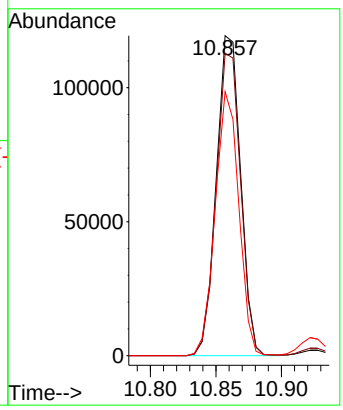


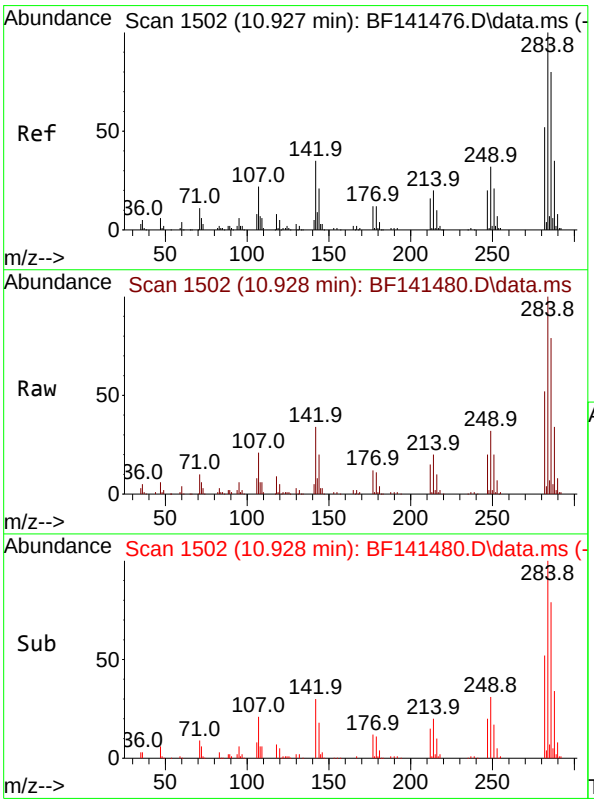
#67
4-Bromophenyl-phenylether
Concen: 40.864 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:248 Resp: 154044

Ion	Ratio	Lower	Upper
248	100		
250	94.5	77.8	116.6
141	82.5	60.6	90.8

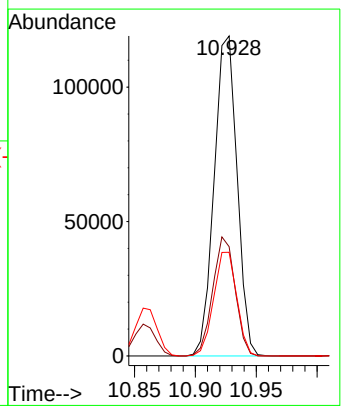


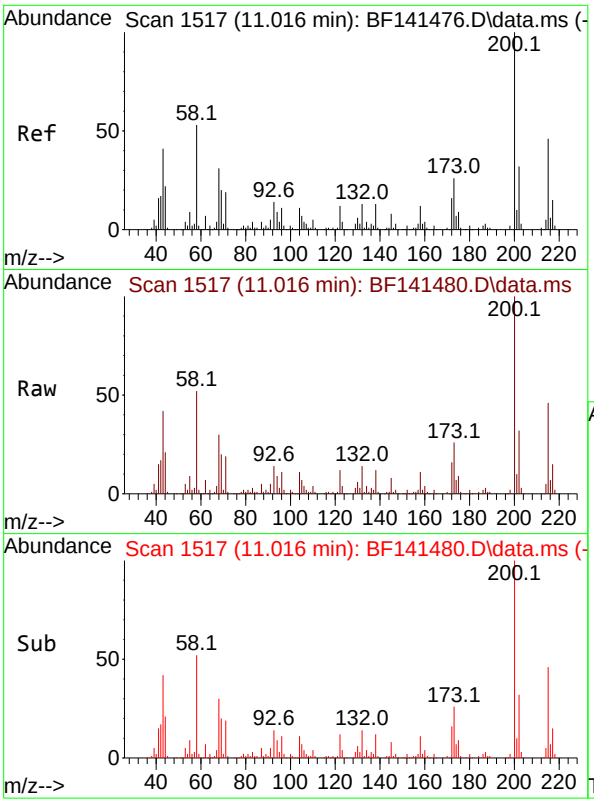


#68
Hexachlorobenzene
Concen: 40.208 ng
RT: 10.928 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:284 Resp: 156075

Ion	Ratio	Lower	Upper
284	100		
142	34.2	28.0	42.0
249	32.4	25.8	38.8



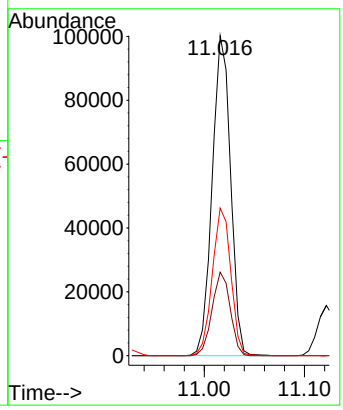


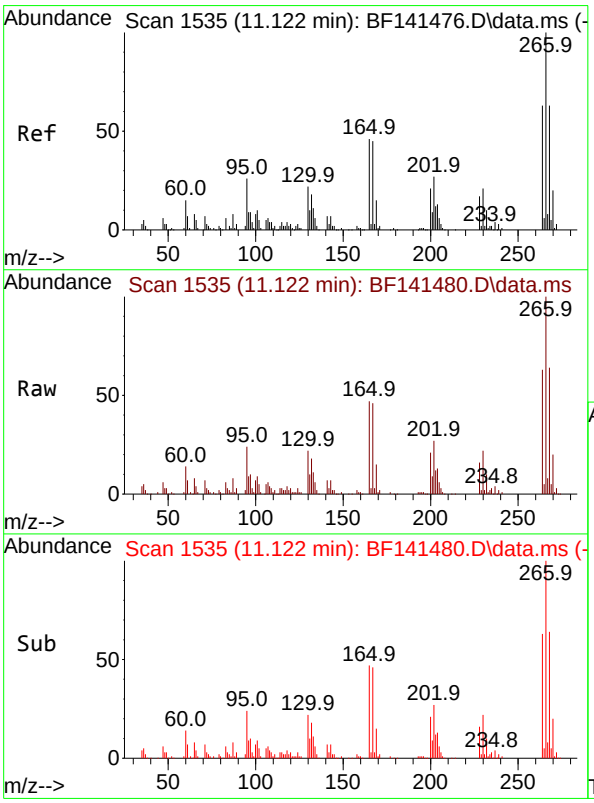
#69
Atrazine
Concen: 39.358 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:200 Resp: 127486

Ion	Ratio	Lower	Upper
200	100		
173	26.1	5.9	45.9
215	46.2	25.9	65.9

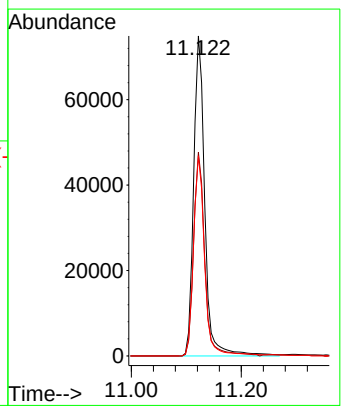


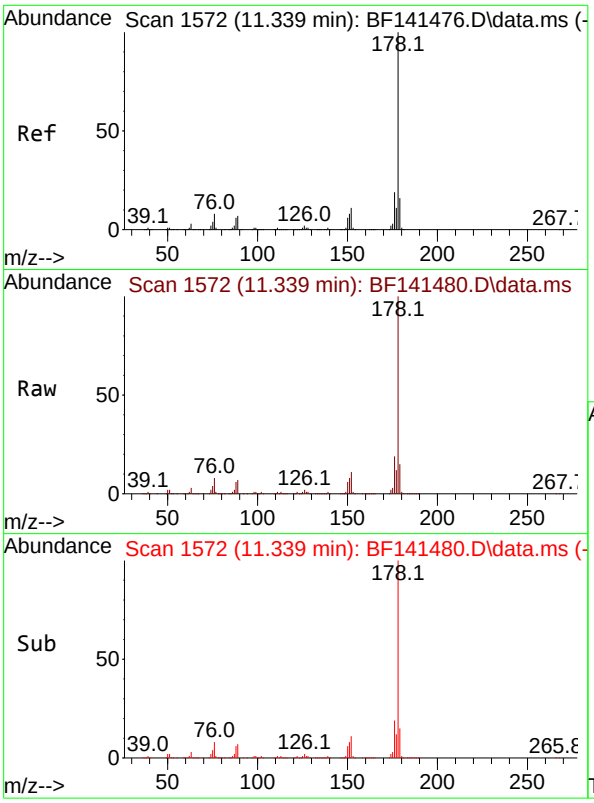


#70
Pentachlorophenol
Concen: 42.476 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:266 Resp: 105427

Ion	Ratio	Lower	Upper
266	100		
268	63.6	50.1	75.1
264	62.5	50.1	75.1



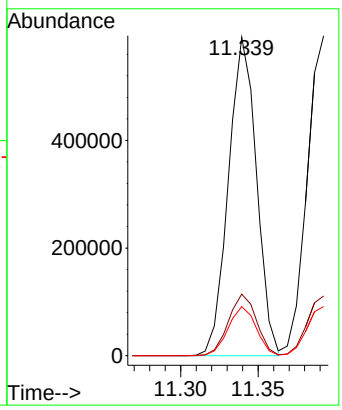


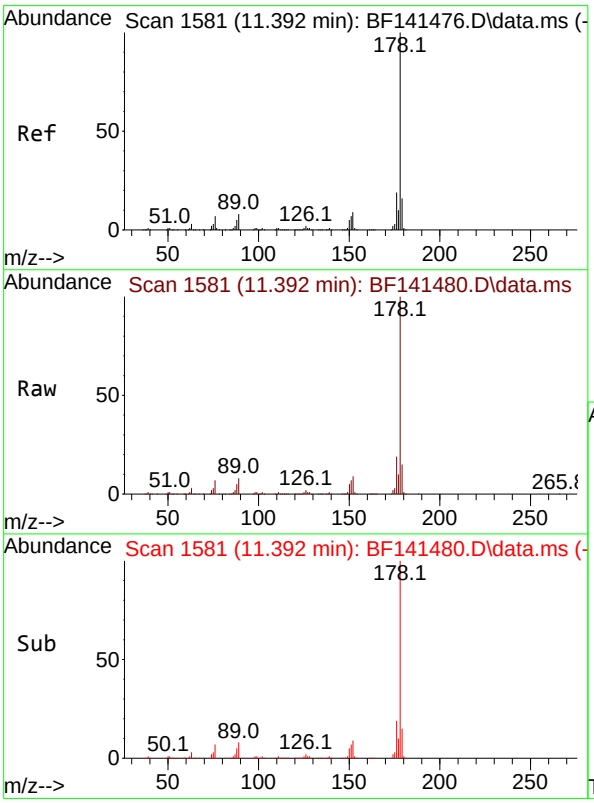
#71
Phenanthrene
Concen: 40.114 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:178 Resp: 744761

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.4	12.4	18.6

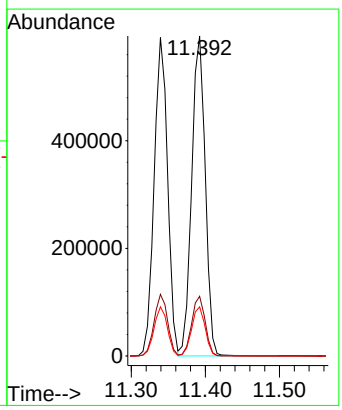


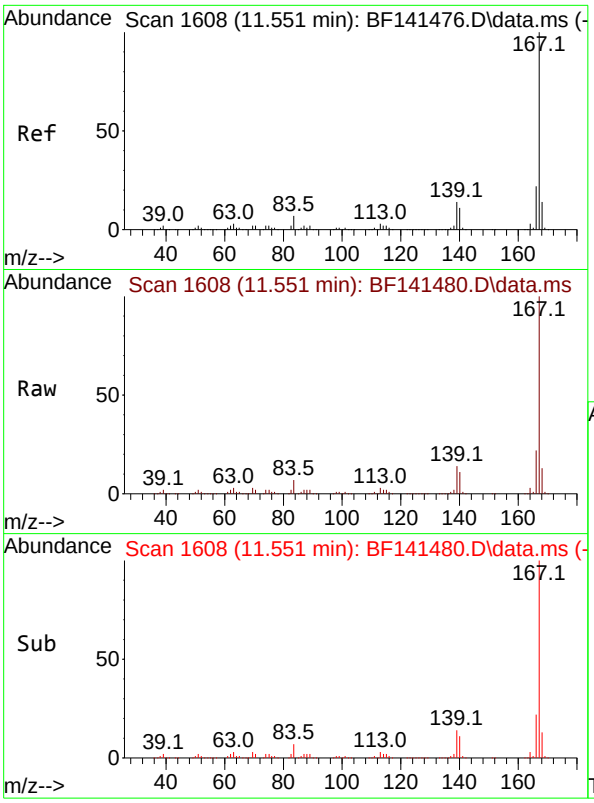


#72
Anthracene
Concen: 40.362 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:178 Resp: 753295

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	15.3	12.4	18.6



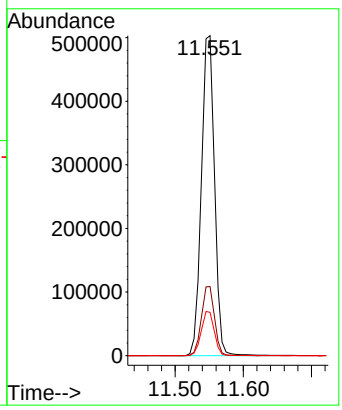


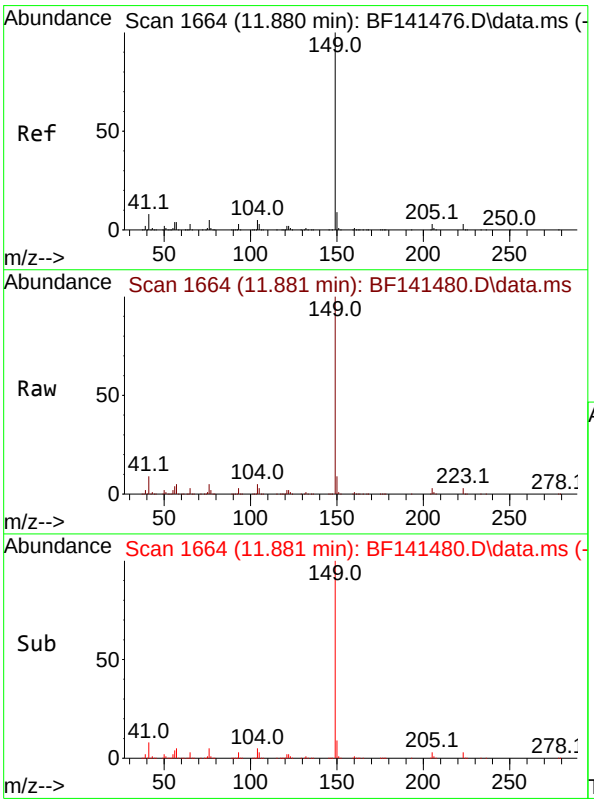
#73
Carbazole
Concen: 40.267 ng
RT: 11.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:167 Resp: 676218

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.6	10.9	16.3

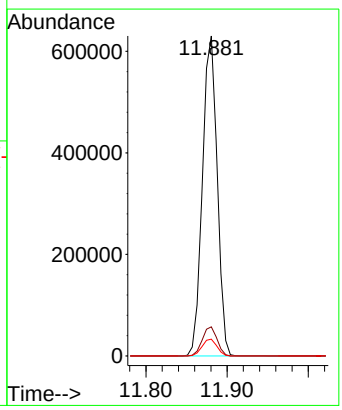


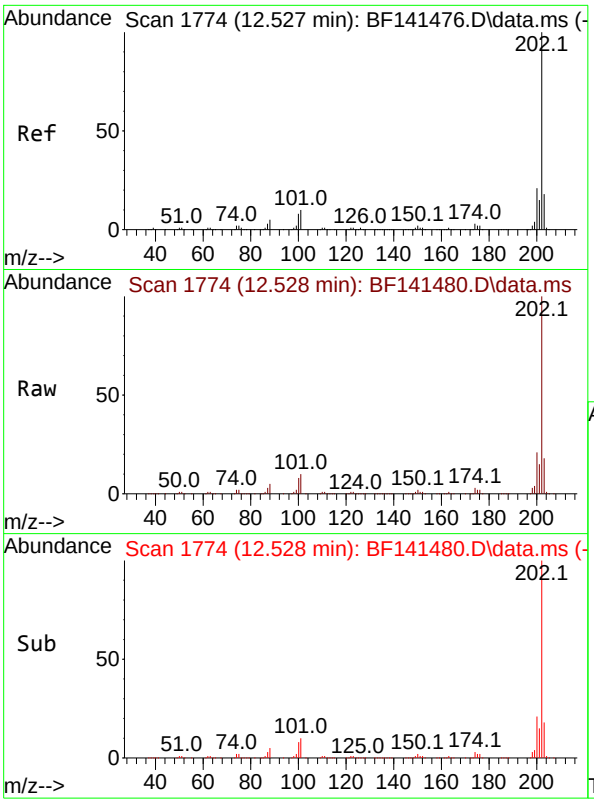


#74
Di-n-butylphthalate
Concen: 40.953 ng
RT: 11.881 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:149 Resp: 794101

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.2	6.2



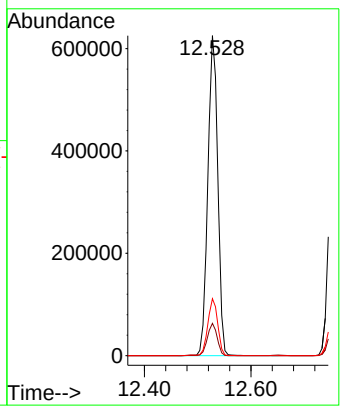


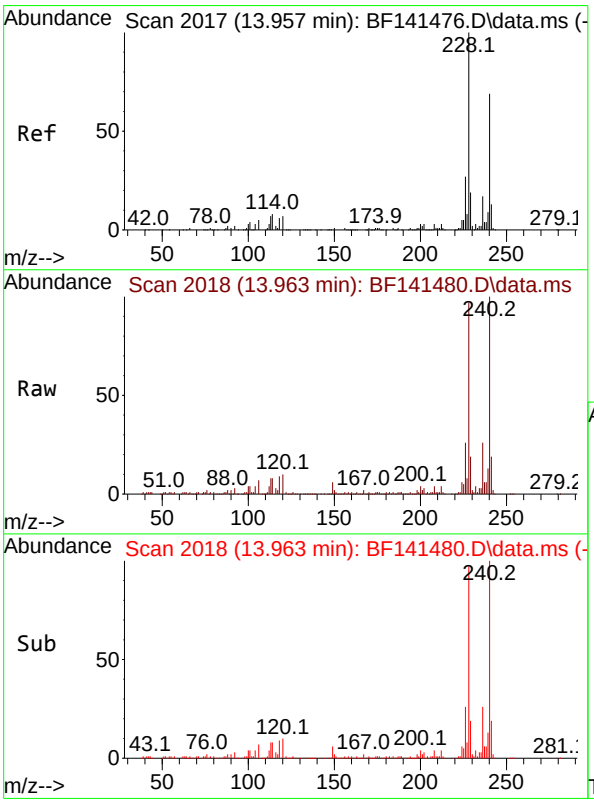
#75
Fluoranthene
Concen: 41.011 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:202 Resp: 807256

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.8	0.0	37.6

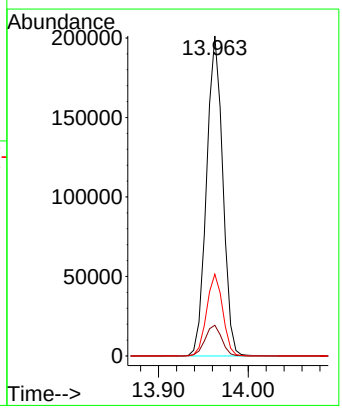


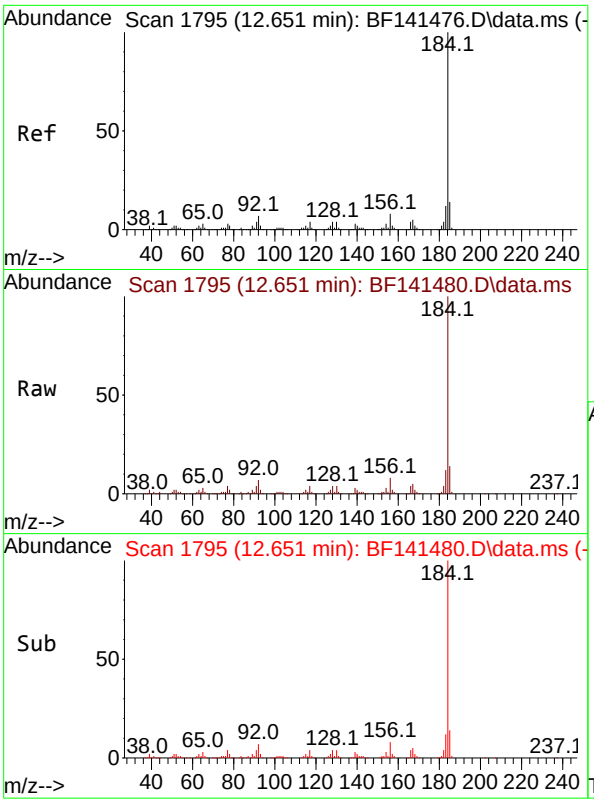


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:240 Resp: 252530

Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.0	12.0
236	25.6	19.8	29.8



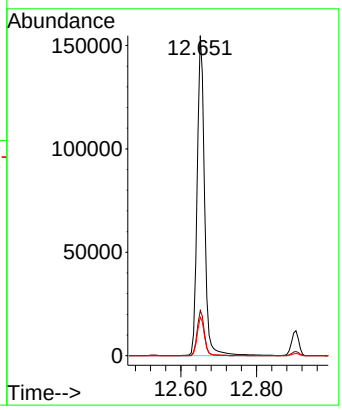


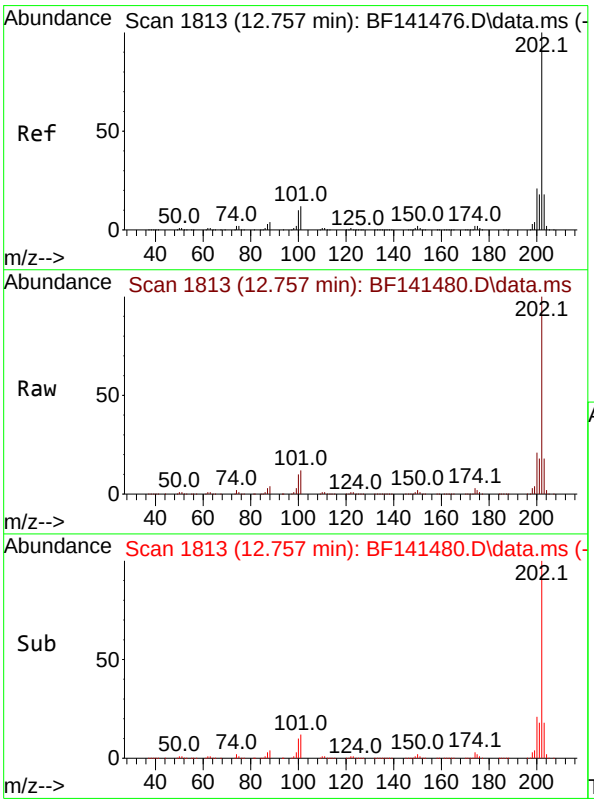
#77
Benzidine
Concen: 38.017 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:184 Resp: 211734

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.3	16.9
183	12.0	9.3	13.9

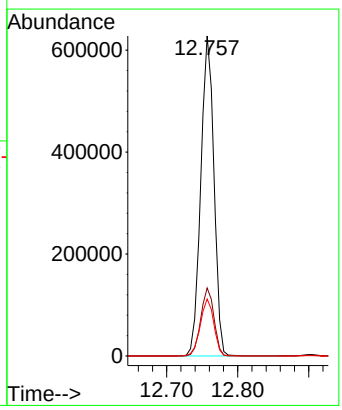


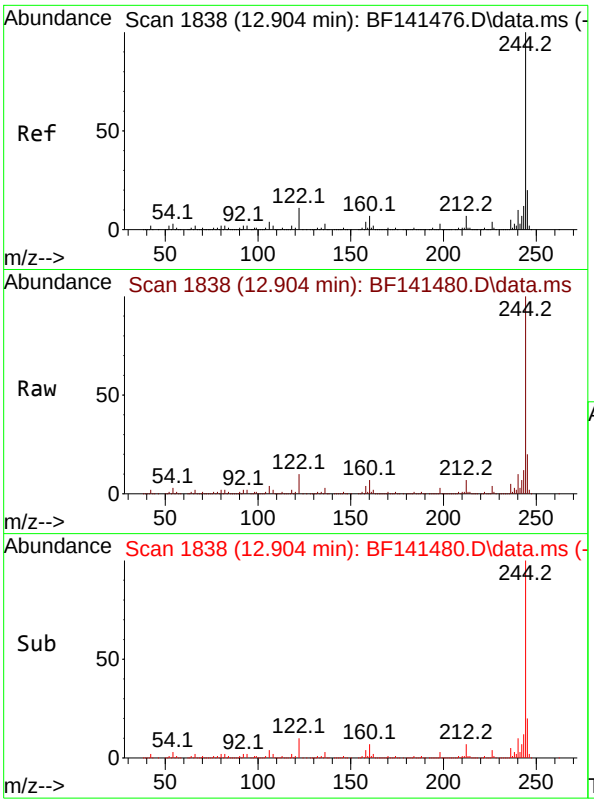


#78
Pyrene
Concen: 37.784 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:202 Resp: 812250

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.8	14.3	21.5



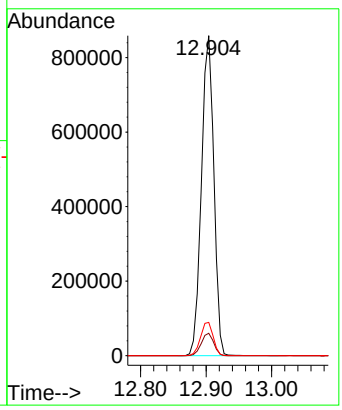


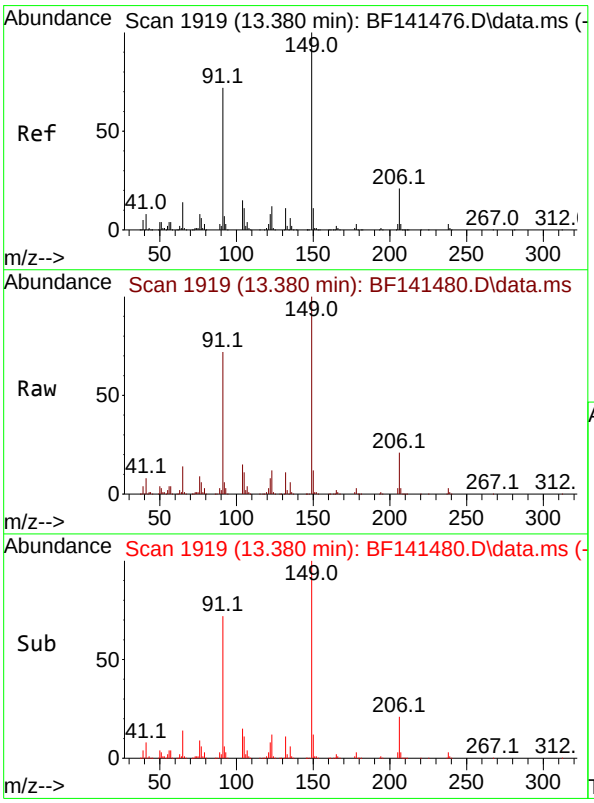
#79
Terphenyl-d14
Concen: 75.750 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:244 Resp: 1133126

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.4	8.4	12.6

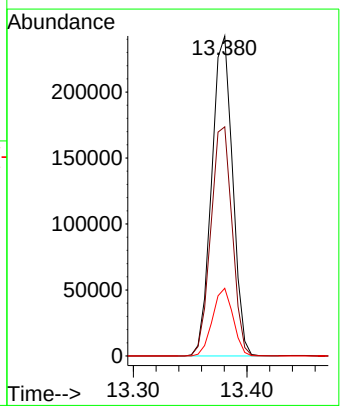


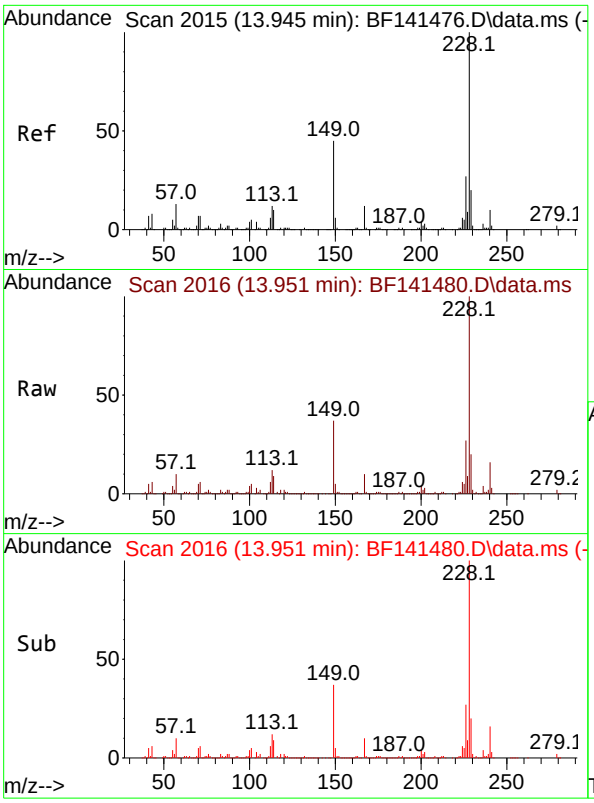


#80
Butylbenzylphthalate
Concen: 41.781 ng
RT: 13.380 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:149 Resp: 311103

Ion	Ratio	Lower	Upper
149	100		
91	71.6	57.8	86.8
206	21.2	16.7	25.1



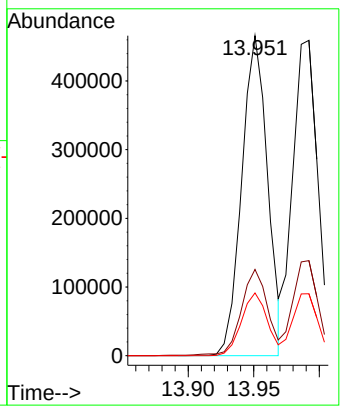


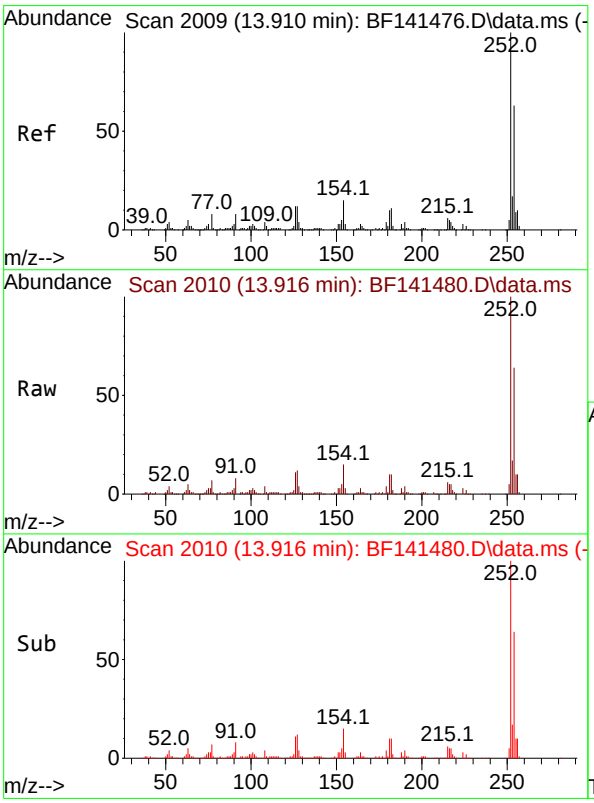
#81
Benzo(a)anthracene
Concen: 38.009 ng
RT: 13.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:228 Resp: 638036

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.8	32.8
229	19.6	15.8	23.6

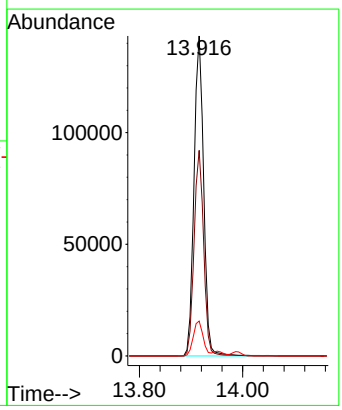


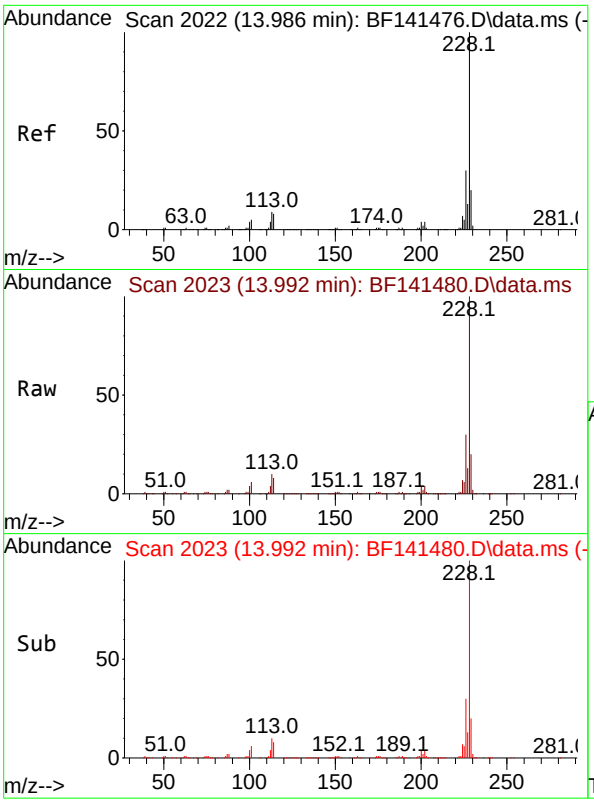


#82
3,3'-Dichlorobenzidine
Concen: 38.608 ng
RT: 13.916 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:252 Resp: 185650

Ion	Ratio	Lower	Upper
252	100		
254	64.3	50.6	76.0
126	10.9	9.3	13.9



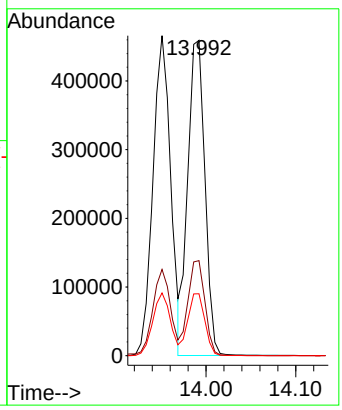


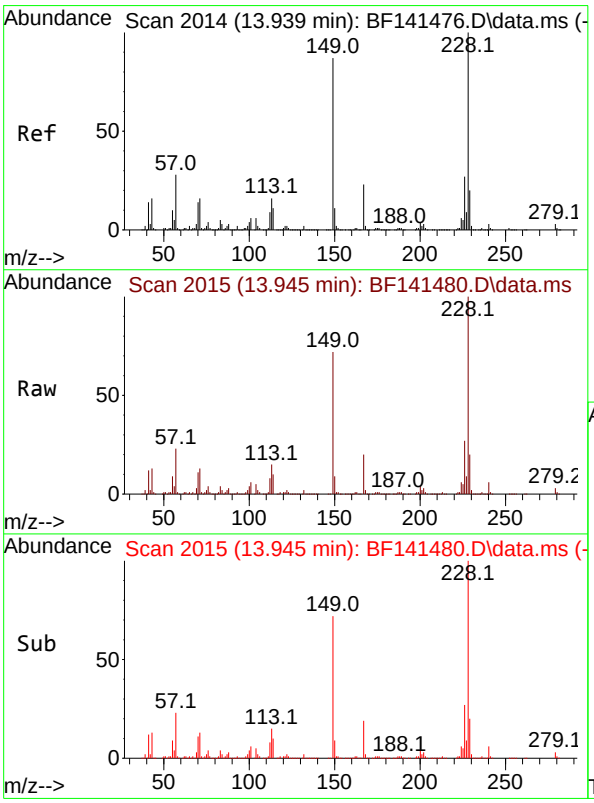
#83
Chrysene
Concen: 39.361 ng
RT: 13.992 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:228 Resp: 610091

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.0	36.0
229	19.6	15.7	23.5

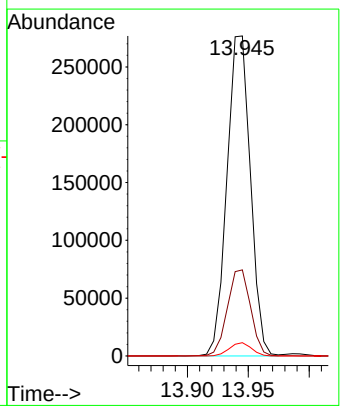


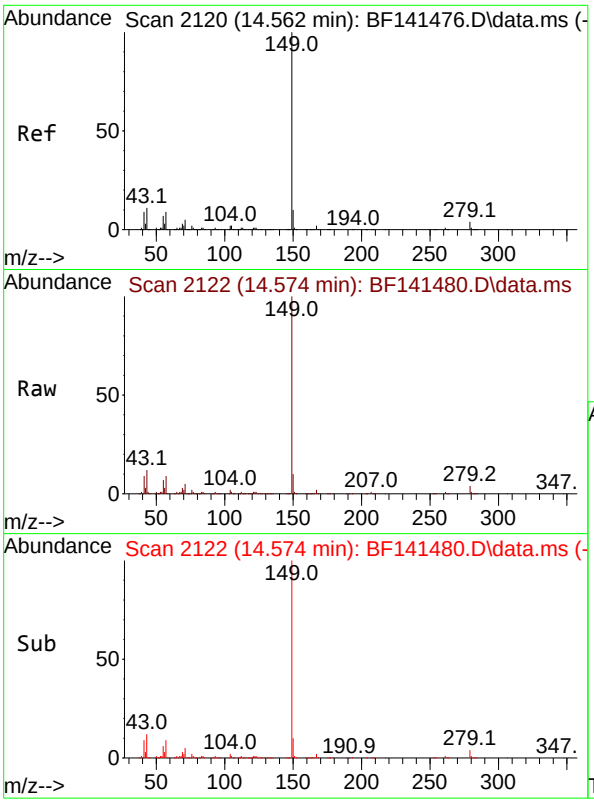


#84
Bis(2-ethylhexyl)phthalate
Concen: 44.229 ng
RT: 13.945 min Scan# 2015
Delta R.T. 0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:149 Resp: 371434

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.4	32.0
279	4.1	3.1	4.7



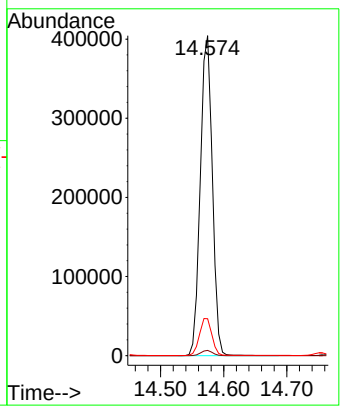


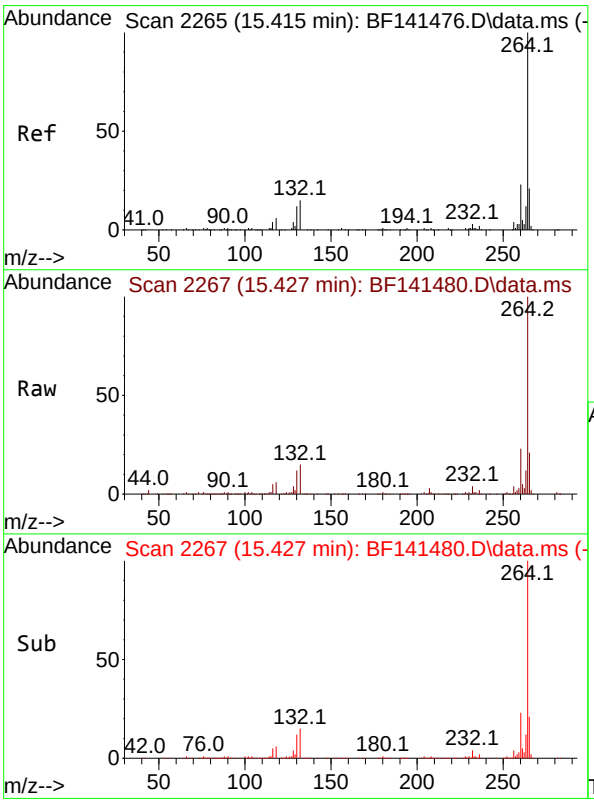
#85
Di-n-octyl phthalate
Concen: 44.652 ng
RT: 14.574 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:149 Resp: 534947

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.9	9.5	14.3

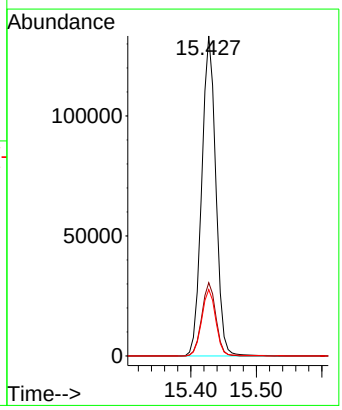


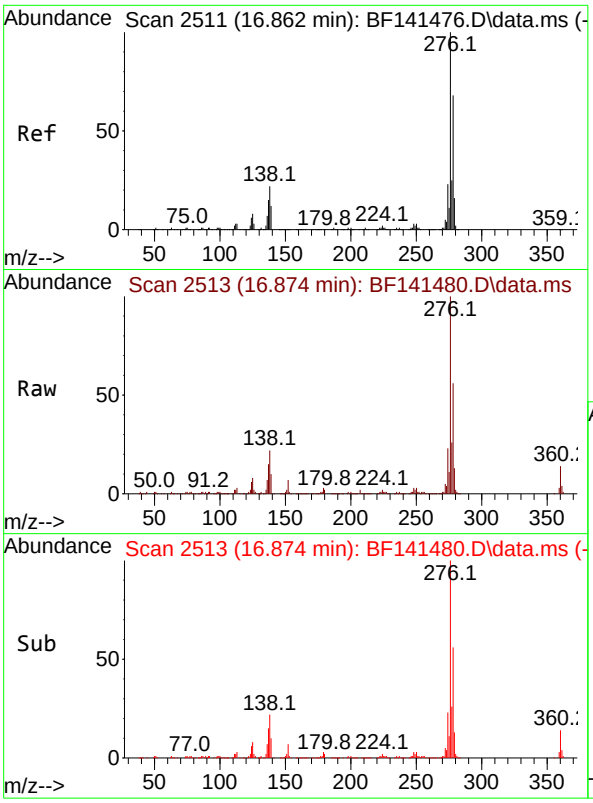


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2267
Delta R.T. 0.012 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:264 Resp: 199389

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	28.0
265	20.8	17.0	25.4



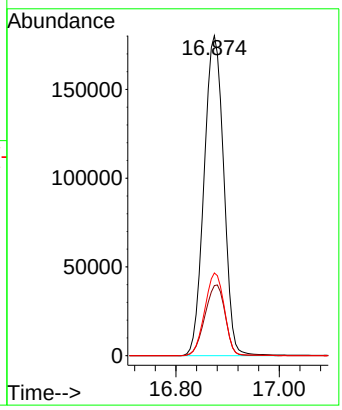


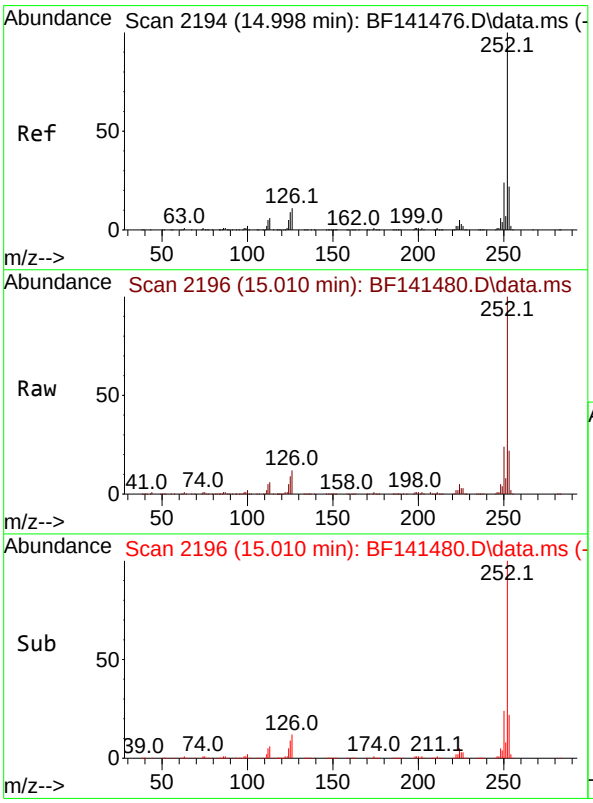
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.551 ng
RT: 16.874 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:276 Resp: 474949

Ion	Ratio	Lower	Upper
276	100		
138	22.8	18.0	27.0
277	25.8	20.4	30.6

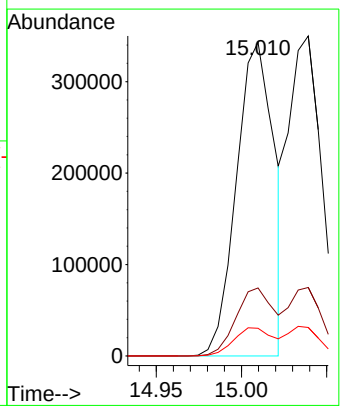


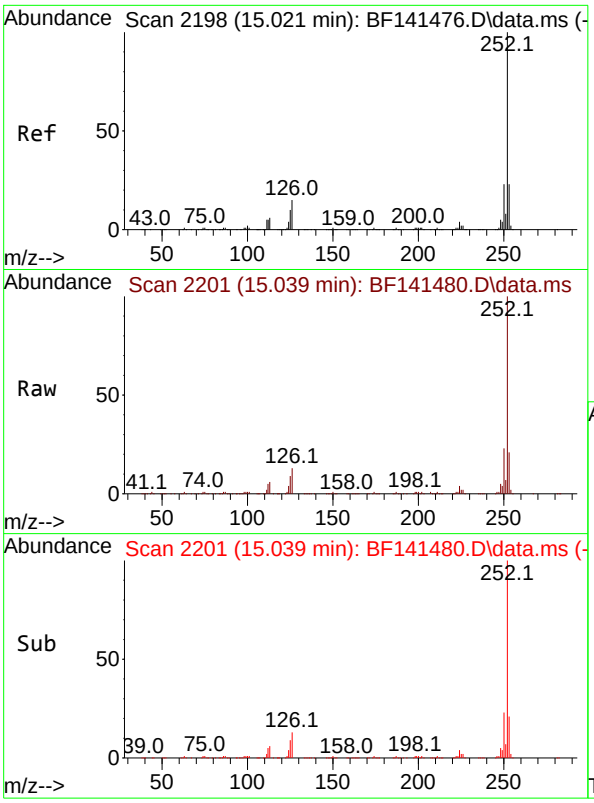


#88
Benzo(b)fluoranthene
Concen: 39.352 ng
RT: 15.010 min Scan# 2196
Delta R.T. 0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:252 Resp: 526847

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	8.8	7.0	10.6



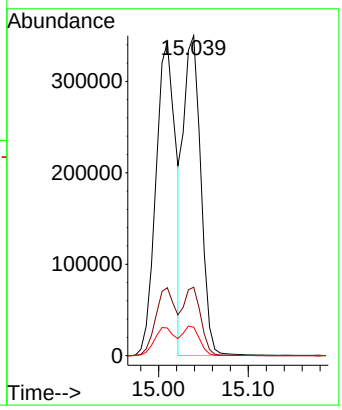


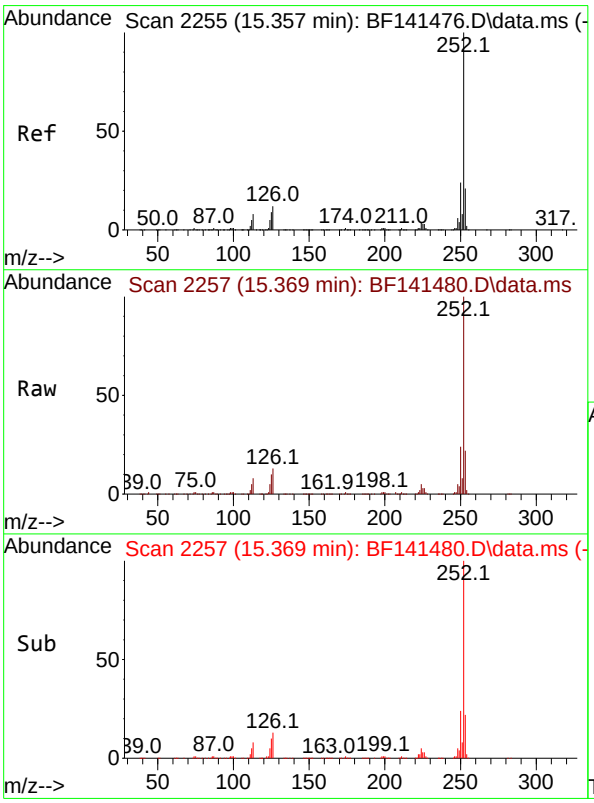
#89
Benzo(k)fluoranthene
Concen: 41.182 ng
RT: 15.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:252 Resp: 470794

Ion	Ratio	Lower	Upper
252	100		
253	21.4	18.0	27.0
125	8.9	7.4	11.0

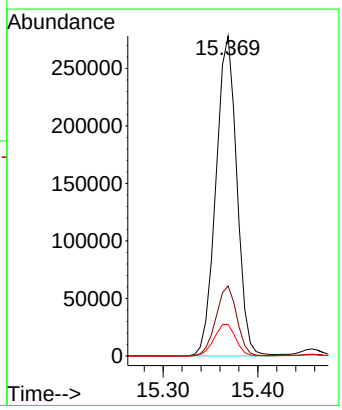


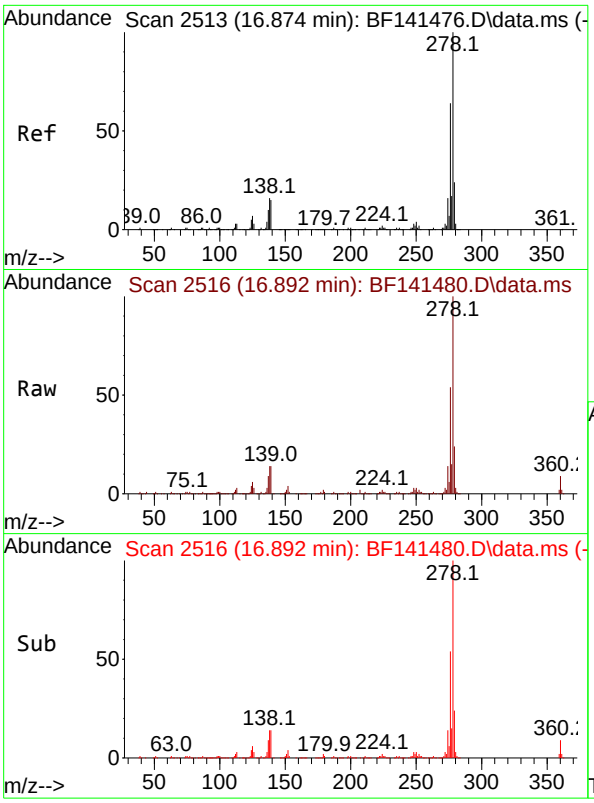


#90
Benzo(a)pyrene
Concen: 39.459 ng
RT: 15.369 min Scan# 2257
Delta R.T. 0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:252 Resp: 427462

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	9.9	7.4	11.2



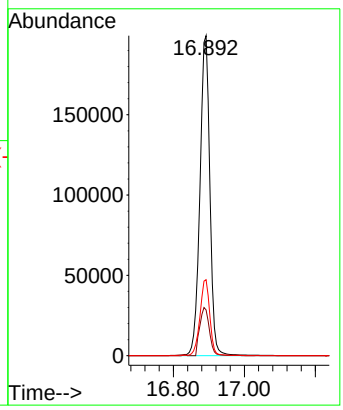


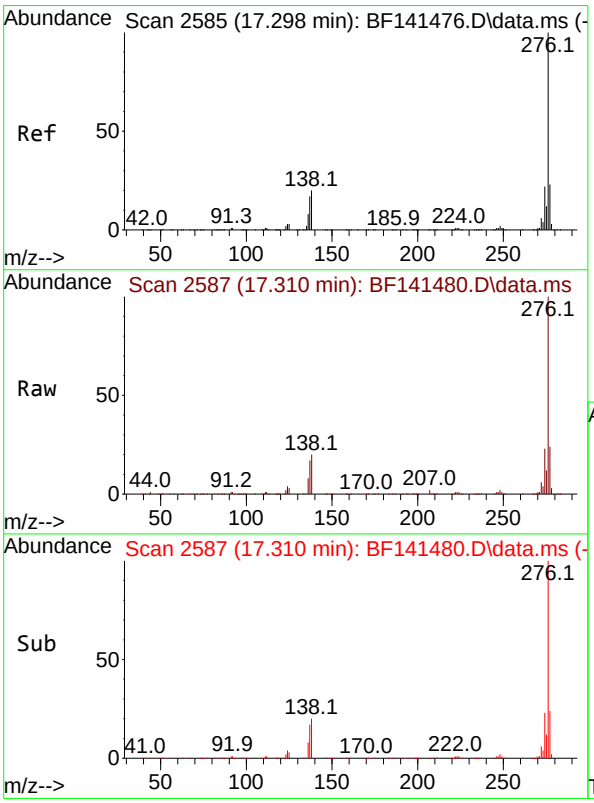
#91
Dibenzo(a,h)anthracene
Concen: 38.870 ng
RT: 16.892 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:278 Resp: 388028

Ion	Ratio	Lower	Upper
278	100		
139	14.3	11.8	17.6
279	23.7	19.1	28.7

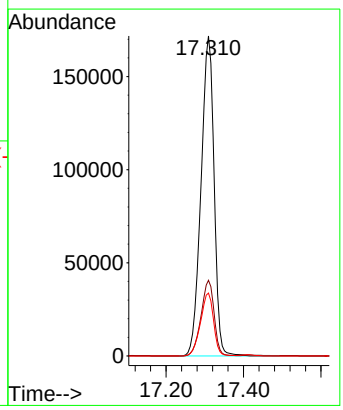




#92
Benzo(g,h,i)perylene
Concen: 38.536 ng
RT: 17.310 min Scan# 2587
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:276 Resp: 402566

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.6	28.0
138	19.7	15.9	23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Quant Time: Feb 06 16:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 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	101	0.00
2		1,4-Dioxane	0.513	0.518	-1.0	101	0.00
3		Pyridine	1.222	1.281	-4.8	102	-0.01
4		n-Nitrosodimethylamine	0.809	0.842	-4.1	104	-0.03
5	S	2-Fluorophenol	1.276	1.306	-2.4	102	0.00
6		Aniline	1.513	1.582	-4.6	104	-0.01
7	S	Phenol-d6	1.612	1.630	-1.1	102	-0.01
8		2-Chlorophenol	1.378	1.397	-1.4	102	-0.01
9		Benzaldehyde	0.857	0.859	-0.2	106	0.00
10	C	Phenol	1.678	1.704	-1.5	102	-0.01
11		bis(2-Chloroethyl)ether	1.261	1.256	0.4	100	0.00
12		1,3-Dichlorobenzene	1.455	1.467	-0.8	103	0.00
13	C	1,4-Dichlorobenzene	1.487	1.484	0.2	102	0.00
14		1,2-Dichlorobenzene	1.380	1.392	-0.9	102	0.00
15		Benzyl Alcohol	1.236	1.269	-2.7	102	0.00
16		2,2'-oxybis(1-Chloropropane	2.158	2.187	-1.3	102	0.00
17		2-Methylphenol	1.079	1.099	-1.9	103	0.00
18		Hexachloroethane	0.550	0.565	-2.7	103	0.00
19	P	n-Nitroso-di-n-propylamine	0.964	0.966	-0.2	101	-0.01
20		3+4-Methylphenols	1.371	1.373	-0.1	101	-0.01
21	I	Naphthalene-d8	1.000	1.000	0.0	103	0.00
22		Acetophenone	0.498	0.488	2.0	102	-0.01
23	S	Nitrobenzene-d5	0.383	0.376	1.8	101	0.00
24		Nitrobenzene	0.374	0.369	1.3	102	0.00
25		Isophorone	0.611	0.608	0.5	103	-0.01
26	C	2-Nitrophenol	0.186	0.188	-1.1	101	0.00
27		2,4-Dimethylphenol	0.217	0.217	0.0	100	0.00
28		bis(2-Chloroethoxy)methane	0.392	0.390	0.5	102	0.00
29	C	2,4-Dichlorophenol	0.294	0.292	0.7	102	0.00
30		1,2,4-Trichlorobenzene	0.320	0.314	1.9	102	0.00
31		Naphthalene	1.041	1.023	1.7	102	0.00
32		Benzoic acid	0.226	0.228	-0.9	102	-0.04
33		4-Chloroaniline	0.363	0.370	-1.9	105	-0.01
34	C	Hexachlorobutadiene	0.192	0.193	-0.5	103	0.00
35		Caprolactam	0.089	0.092	-3.4	102	-0.03
36	C	4-Chloro-3-methylphenol	0.325	0.325	0.0	102	0.00
37		2-Methylnaphthalene	0.677	0.656	3.1	101	0.00
38		1-Methylnaphthalene	0.656	0.641	2.3	101	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
40		1,2,4,5-Tetrachlorobenzene	0.579	0.581	-0.3	102	0.00
41	P	Hexachlorocyclopentadiene	0.192	0.186	3.1	94	0.00
42	S	2,4,6-Tribromophenol	0.201	0.200	0.5	102	0.00
43	C	2,4,6-Trichlorophenol	0.374	0.373	0.3	101	0.00
44		2,4,5-Trichlorophenol	0.405	0.406	-0.2	101	0.00
45	S	2-Fluorobiphenyl	1.298	1.278	1.5	103	0.00
46		1,1'-Biphenyl	1.551	1.532	1.2	102	0.00
47		2-Chloronaphthalene	1.147	1.131	1.4	102	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Quant Time: Feb 06 16:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 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	0.385	0.389	-1.0	102	0.00
49		Acenaphthylene	1.705	1.694	0.6	102	0.00
50		Dimethylphthalate	1.358	1.340	1.3	102	-0.01
51		2,6-Dinitrotoluene	0.297	0.297	0.0	101	0.00
52	C	Acenaphthene	1.147	1.143	0.3	102	0.00
53		3-Nitroaniline	0.319	0.323	-1.3	104	0.00
54	P	2,4-Dinitrophenol	0.176	0.188	-6.8	109	-0.01
55		Dibenzofuran	1.683	1.677	0.4	103	0.00
56	P	4-Nitrophenol	0.237	0.250	-5.5	103	-0.01
57		2,4-Dinitrotoluene	0.395	0.401	-1.5	103	0.00
58		Fluorene	1.301	1.285	1.2	102	0.00
59		2,3,4,6-Tetrachlorophenol	0.349	0.353	-1.1	104	0.00
60		Diethylphthalate	1.336	1.318	1.3	101	0.00
61		4-Chlorophenyl-phenylether	0.626	0.615	1.8	101	0.00
62		4-Nitroaniline	0.324	0.333	-2.8	102	-0.02
63		Azobenzene	1.328	1.320	0.6	102	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
65		4,6-Dinitro-2-methylphenol	0.139	0.147	-5.8	104	-0.01
66	c	n-Nitrosodiphenylamine	0.640	0.641	-0.2	102	0.00
67		4-Bromophenyl-phenylether	0.224	0.228	-1.8	104	0.00
68		Hexachlorobenzene	0.230	0.231	-0.4	102	0.00
69		Atrazine	0.192	0.189	1.6	102	0.00
70	C	Pentachlorophenol	0.147	0.156	-6.1	102	0.00
71		Phenanthrene	1.101	1.104	-0.3	102	0.00
72		Anthracene	1.107	1.117	-0.9	103	0.00
73		Carbazole	0.996	1.002	-0.6	102	0.00
74		Di-n-butylphthalate	1.150	1.177	-2.3	103	0.00
75	C	Fluoranthene	1.167	1.197	-2.6	104	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	112	0.00
77		Benzidine	0.441	0.419	5.0	89	0.00
78		Pyrene	1.703	1.608	5.6	103	0.00
79	S	Terphenyl-d14	1.185	1.122	5.3	105	0.00
80		Butylbenzylphthalate	0.590	0.616	-4.4	113	0.00
81		Benzo(a)anthracene	1.329	1.263	5.0	105	0.00
82		3,3'-Dichlorobenzidine	0.381	0.368	3.4	109	0.00
83		Chrysene	1.228	1.208	1.6	113	0.00
84		Bis(2-ethylhexyl)phthalate	0.665	0.735	-10.5	120	0.00
85	c	Di-n-octyl phthalate	0.949	1.059	-11.6	123	0.01
86	I	Perylene-d12	1.000	1.000	0.0	109	0.01
87		Indeno(1,2,3-cd)pyrene	1.236	1.191	3.6	101	0.00
88		Benzo(b)fluoranthene	1.343	1.321	1.6	108	0.00
89		Benzo(k)fluoranthene	1.147	1.181	-3.0	113	0.00
90	C	Benzo(a)pyrene	1.087	1.072	1.4	108	0.00
91		Dibenzo(a,h)anthracene	1.001	0.973	2.8	101	0.00
92		Benzo(g,h,i)perylene	1.048	1.009	3.7	100	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Quant Time: Feb 06 16:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Quant Time: Feb 06 16:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 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	101	0.00
2		1,4-Dioxane	40.000	40.369	-0.9	101	0.00
3		Pyridine	40.000	41.938	-4.8	102	-0.01
4		n-Nitrosodimethylamine	40.000	41.653	-4.1	104	-0.03
5	S	2-Fluorophenol	80.000	81.894	-2.4	102	0.00
6		Aniline	40.000	41.834	-4.6	104	-0.01
7	S	Phenol-d6	80.000	80.878	-1.1	102	-0.01
8		2-Chlorophenol	40.000	40.527	-1.3	102	-0.01
9		Benzaldehyde	40.000	40.105	-0.3	106	0.00
10	C	Phenol	40.000	40.615	-1.5	102	-0.01
11		bis(2-Chloroethyl)ether	40.000	39.866	0.3	100	0.00
12		1,3-Dichlorobenzene	40.000	40.317	-0.8	103	0.00
13	C	1,4-Dichlorobenzene	40.000	39.911	0.2	102	0.00
14		1,2-Dichlorobenzene	40.000	40.354	-0.9	102	0.00
15		Benzyl Alcohol	40.000	41.041	-2.6	102	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.535	-1.3	102	0.00
17		2-Methylphenol	40.000	40.768	-1.9	103	0.00
18		Hexachloroethane	40.000	41.061	-2.7	103	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.048	-0.1	101	-0.01
20		3+4-Methylphenols	40.000	40.073	-0.2	101	-0.01
21	I	Naphthalene-d8	20.000	20.000	0.0	103	0.00
22		Acetophenone	40.000	39.246	1.9	102	-0.01
23	S	Nitrobenzene-d5	80.000	78.369	2.0	101	0.00
24		Nitrobenzene	40.000	39.429	1.4	102	0.00
25		Isophorone	40.000	39.767	0.6	103	-0.01
26	C	2-Nitrophenol	40.000	40.413	-1.0	101	0.00
27		2,4-Dimethylphenol	40.000	39.924	0.2	100	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.822	0.4	102	0.00
29	C	2,4-Dichlorophenol	40.000	39.818	0.5	102	0.00
30		1,2,4-Trichlorobenzene	40.000	39.237	1.9	102	0.00
31		Naphthalene	40.000	39.287	1.8	102	0.00
32		Benzoic acid	40.000	40.324	-0.8	102	-0.04
33		4-Chloroaniline	40.000	40.680	-1.7	105	-0.01
34	C	Hexachlorobutadiene	40.000	40.144	-0.4	103	0.00
35		Caprolactam	40.000	41.104	-2.8	102	-0.03
36	C	4-Chloro-3-methylphenol	40.000	40.006	-0.0	102	0.00
37		2-Methylnaphthalene	40.000	38.710	3.2	101	0.00
38		1-Methylnaphthalene	40.000	39.049	2.4	101	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	102	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.182	-0.5	102	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.754	3.1	94	0.00
42	S	2,4,6-Tribromophenol	80.000	79.490	0.6	102	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.914	0.2	101	0.00
44		2,4,5-Trichlorophenol	40.000	40.108	-0.3	101	0.00
45	S	2-Fluorobiphenyl	80.000	78.786	1.5	103	0.00
46		1,1'-Biphenyl	40.000	39.519	1.2	102	0.00
47		2-Chloronaphthalene	40.000	39.453	1.4	102	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Quant Time: Feb 06 16:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 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	40.451	-1.1	102	0.00
49		Acenaphthylene	40.000	39.734	0.7	102	0.00
50		Dimethylphthalate	40.000	39.488	1.3	102	-0.01
51		2,6-Dinitrotoluene	40.000	39.965	0.1	101	0.00
52	C	Acenaphthene	40.000	39.893	0.3	102	0.00
53		3-Nitroaniline	40.000	40.463	-1.2	104	0.00
54	P	2,4-Dinitrophenol	40.000	42.639	-6.6	109	-0.01
55		Dibenzofuran	40.000	39.860	0.4	103	0.00
56	P	4-Nitrophenol	40.000	42.166	-5.4	103	-0.01
57		2,4-Dinitrotoluene	40.000	40.633	-1.6	103	0.00
58		Fluorene	40.000	39.501	1.2	102	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.438	-1.1	104	0.00
60		Diethylphthalate	40.000	39.467	1.3	101	0.00
61		4-Chlorophenyl-phenylether	40.000	39.318	1.7	101	0.00
62		4-Nitroaniline	40.000	41.124	-2.8	102	-0.02
63		Azobenzene	40.000	39.759	0.6	102	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
65		4,6-Dinitro-2-methylphenol	40.000	42.230	-5.6	104	-0.01
66	c	n-Nitrosodiphenylamine	40.000	40.040	-0.1	102	0.00
67		4-Bromophenyl-phenylether	40.000	40.864	-2.2	104	0.00
68		Hexachlorobenzene	40.000	40.208	-0.5	102	0.00
69		Atrazine	40.000	39.358	1.6	102	0.00
70	C	Pentachlorophenol	40.000	42.476	-6.2	102	0.00
71		Phenanthrene	40.000	40.114	-0.3	102	0.00
72		Anthracene	40.000	40.362	-0.9	103	0.00
73		Carbazole	40.000	40.267	-0.7	102	0.00
74		Di-n-butylphthalate	40.000	40.953	-2.4	103	0.00
75	C	Fluoranthene	40.000	41.011	-2.5	104	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	112	0.00
77		Benzidine	40.000	38.017	5.0	89	0.00
78		Pyrene	40.000	37.784	5.5	103	0.00
79	S	Terphenyl-d14	80.000	75.750	5.3	105	0.00
80		Butylbenzylphthalate	40.000	41.781	-4.5	113	0.00
81		Benzo(a)anthracene	40.000	38.009	5.0	105	0.00
82		3,3'-Dichlorobenzidine	40.000	38.608	3.5	109	0.00
83		Chrysene	40.000	39.361	1.6	113	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	44.229	-10.6	120	0.00
85	c	Di-n-octyl phthalate	40.000	44.652	-11.6	123	0.01
86	I	Perylene-d12	20.000	20.000	0.0	109	0.01
87		Indeno(1,2,3-cd)pyrene	40.000	38.551	3.6	101	0.00
88		Benzo(b)fluoranthene	40.000	39.352	1.6	108	0.00
89		Benzo(k)fluoranthene	40.000	41.182	-3.0	113	0.00
90	C	Benzo(a)pyrene	40.000	39.459	1.4	108	0.00
91		Dibenzo(a,h)anthracene	40.000	38.870	2.8	101	0.00
92		Benzo(g,h,i)perylene	40.000	38.536	3.7	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Quant Time: Feb 06 16:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: BNA_F Calibration Date/Time: 02/25/2025 10:34

Lab File ID: BF141755.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.276	1.379		8.1	
Benzaldehyde	0.857	0.938		9.5	
Phenol-d6	1.612	1.672		3.7	
Phenol	1.678	1.745		4.0	20.0
bis(2-Chloroethyl)ether	1.261	1.311		4.0	
2-Chlorophenol	1.378	1.463		6.2	
2-Methylphenol	1.079	1.115		3.3	
2,2-oxybis(1-Chloropropane)	2.158	2.073		-3.9	
Acetophenone	0.498	0.506		1.6	
3+4-Methylphenols	1.371	1.442		5.2	
n-Nitroso-di-n-propylamine	0.964	0.992	0.050	2.9	
Nitrobenzene-d5	0.383	0.384		0.3	
Hexachloroethane	0.550	0.581		5.6	
Nitrobenzene	0.374	0.377		0.8	
Isophorone	0.611	0.618		1.1	
2-Nitrophenol	0.186	0.199		7.0	20.0
2,4-Dimethylphenol	0.217	0.228		5.1	
bis(2-Chloroethoxy)methane	0.392	0.410		4.6	
2,4-Dichlorophenol	0.294	0.307		4.4	20.0
Naphthalene	1.041	1.073		3.1	
4-Chloroaniline	0.363	0.379		4.4	
Hexachlorobutadiene	0.192	0.201		4.7	20.0
Caprolactam	0.089	0.086		-3.4	
4-Chloro-3-methylphenol	0.325	0.325		0.0	20.0
2-Methylnaphthalene	0.677	0.700		3.4	
Hexachlorocyclopentadiene	0.192	0.198	0.050	3.1	
2,4,6-Trichlorophenol	0.374	0.383		2.4	20.0
2-Fluorobiphenyl	1.298	1.344		3.5	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.551	1.613		4.0	
2-Chloronaphthalene	1.147	1.203		4.9	
2-Nitroaniline	0.385	0.362		-6.0	
Dimethylphthalate	1.358	1.384		1.9	
Acenaphthylene	1.705	1.736		1.8	
2,6-Dinitrotoluene	0.297	0.294		-1.0	
3-Nitroaniline	0.319	0.305		-4.4	
Acenaphthene	1.147	1.127		-1.7	20.0
2,4-Dinitrophenol	0.176	0.155	0.050	-11.9	
4-Nitrophenol	0.237	0.207	0.050	-12.7	

Form VII SV-1

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: BNA_F Calibration Date/Time: 02/25/2025 10:34

Lab File ID: BF141755.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.683	1.672		-0.7	
2,4-Dinitrotoluene	0.395	0.376		-4.8	
Diethylphthalate	1.336	1.323		-1.0	
4-Chlorophenyl-phenylether	0.626	0.644		2.9	
Fluorene	1.301	1.287		-1.1	
4-Nitroaniline	0.324	0.286		-11.7	
4,6-Dinitro-2-methylphenol	0.139	0.136		-2.2	
n-Nitrosodiphenylamine	0.640	0.696		8.8	20.0
2,4,6-Tribromophenol	0.201	0.191		-5.0	
4-Bromophenyl-phenylether	0.224	0.247		10.3	
Hexachlorobenzene	0.230	0.252		9.6	
Atrazine	0.192	0.172		-10.4	
Pentachlorophenol	0.147	0.146		-0.7	20.0
Phenanthrene	1.101	1.126		2.3	
Anthracene	1.107	1.148		3.7	
Carbazole	0.996	0.955		-4.1	
Di-n-butylphthalate	1.150	1.169		1.7	
Fluoranthene	1.167	1.071		-8.2	20.0
Pyrene	1.703	1.941		14.0	
Terphenyl-d14	1.185	1.341		13.2	
Butylbenzylphthalate	0.590	0.653		10.7	
3,3-Dichlorobenzidine	0.381	0.421		10.5	
Benzo(a)anthracene	1.329	1.394		4.9	
Chrysene	1.228	1.271		3.5	
Bis(2-ethylhexyl)phthalate	0.665	0.826		24.2	
Di-n-octyl phthalate	0.949	1.341		41.3	20.0
Benzo(b)fluoranthene	1.343	1.171		-12.8	
Benzo(k)fluoranthene	1.147	0.994		-13.3	
Benzo(a)pyrene	1.087	1.099		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.236	1.495		21.0	
Dibenzo(a,h)anthracene	1.001	1.227		22.6	
Benzo(g,h,i)perylene	1.048	1.273		21.5	
1,2,4,5-Tetrachlorobenzene	0.579	0.620		7.1	
1,4-Dioxane	0.513	0.521		1.6	20.0
2,3,4,6-Tetrachlorophenol	0.349	0.331		-5.2	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141755.D
Acq On : 25 Feb 2025 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	83876	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	333850	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	179797	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	280239	20.000	ng		-0.01
76) Chrysene-d12	13.939	240	152344	20.000	ng		-0.02
86) Perylene-d12	15.386	264	167961	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.404	112	462555	86.457	ng		0.00
7) Phenol-d6	6.428	99	561086	82.975	ng		-0.01
23) Nitrobenzene-d5	7.351	82	513035	80.153	ng		-0.01
42) 2,4,6-Tribromophenol	10.610	330	137629	76.201	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	966496	82.817	ng		-0.01
79) Terphenyl-d14	12.886	244	817377	90.576	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.457	88	87358	40.569	ng		98
3) Pyridine	3.187	79	217499	42.447	ng		96
4) n-Nitrosodimethylamine	3.146	42	123127	36.290	ng		91
6) Aniline	6.445	93	257077	40.528	ng		88
8) 2-Chlorophenol	6.575	128	245401	42.450	ng		99
9) Benzaldehyde	6.334	77	157405	43.804	ng		98
10) Phenol	6.445	94	292725	41.592	ng		97
11) bis(2-Chloroethyl)ether	6.522	93	219867	41.592	ng		100
12) 1,3-Dichlorobenzene	6.722	146	263327	43.146	ng		97
13) 1,4-Dichlorobenzene	6.798	146	266619	42.757	ng		99
14) 1,2-Dichlorobenzene	6.951	146	250123	43.218	ng		100
15) Benzyl Alcohol	6.934	79	205915	39.710	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.057	45	347691	38.422	ng		60
17) 2-Methylphenol	7.051	107	186964	41.327	ng		95
18) Hexachloroethane	7.292	117	97445	42.225	ng		95
19) n-Nitroso-di-n-propyla...	7.198	70	166444	41.150	ng		93
20) 3+4-Methylphenols	7.204	107	241843	42.065	ng	#	80
22) Acetophenone	7.192	105	337823	40.679	ng		92
24) Nitrobenzene	7.369	77	251798	40.343	ng		98
25) Isophorone	7.604	82	412929	40.460	ng		98
26) 2-Nitrophenol	7.687	139	132793	42.764	ng		92
27) 2,4-Dimethylphenol	7.728	122	152449	42.025	ng		96
28) bis(2-Chloroethoxy)met...	7.816	93	273434	41.812	ng		99
29) 2,4-Dichlorophenol	7.934	162	205263	41.878	ng		99
30) 1,2,4-Trichlorobenzene	8.004	180	222891	41.760	ng		100
31) Naphthalene	8.086	128	716264	41.216	ng		100
32) Benzoic acid	7.863	122	121186	32.162	ng		99
33) 4-Chloroaniline	8.139	127	253211	41.733	ng		97
34) Hexachlorobutadiene	8.198	225	133921	41.794	ng		99
35) Caprolactam	8.516	113	57557	38.568	ng	#	87
36) 4-Chloro-3-methylphenol	8.628	107	216842	39.939	ng		98
37) 2-Methylnaphthalene	8.775	142	467144	41.309	ng		100
38) 1-Methylnaphthalene	8.875	142	442044	40.360	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	223056	42.881	ng		99
41) Hexachlorocyclopentadiene	8.928	237	71295	41.208	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	137576	40.921	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141755.D
Acq On : 25 Feb 2025 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

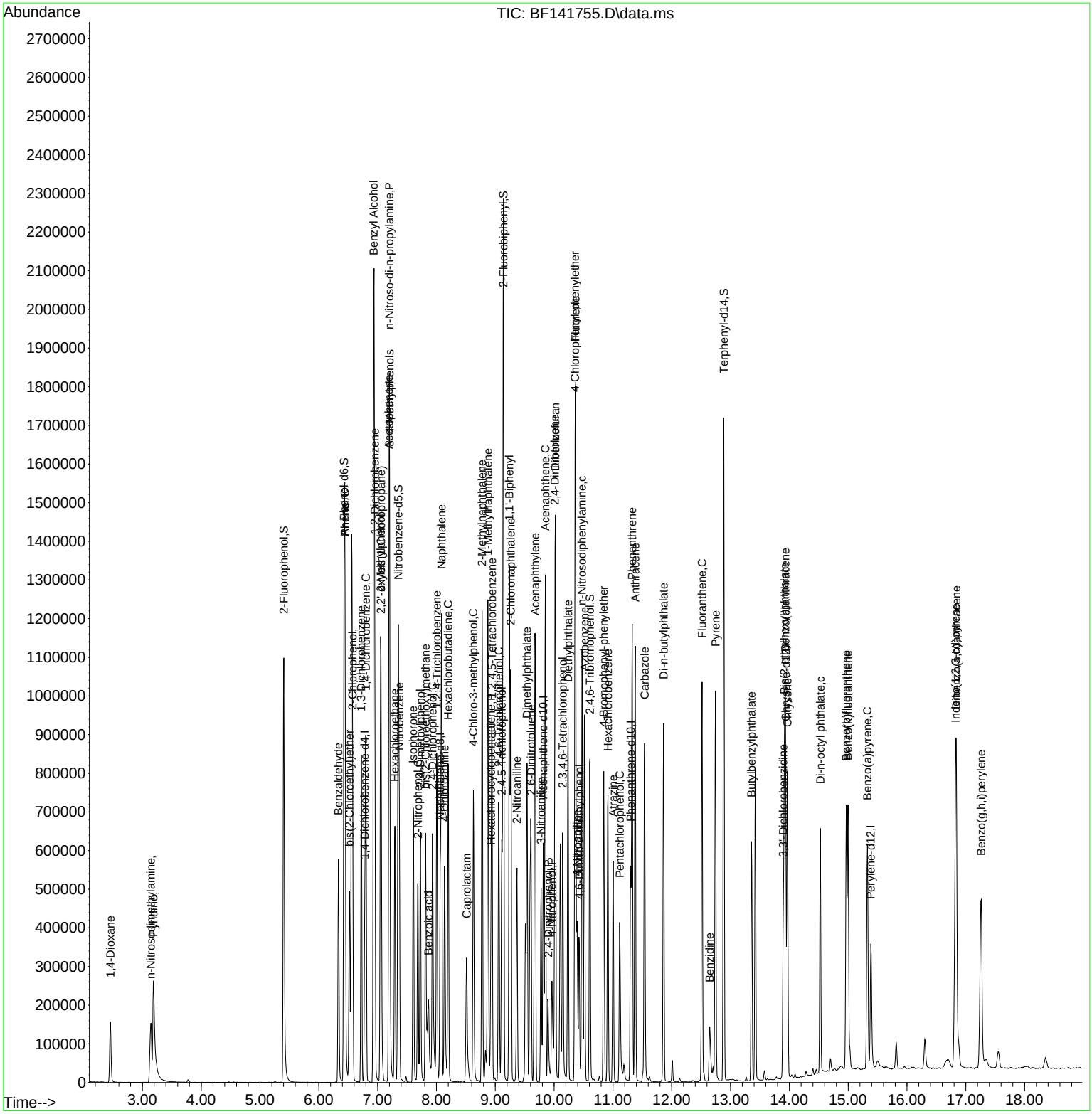
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	145193	39.849	ng	98
46) 1,1'-Biphenyl	9.239	154	579898	41.602	ng	100
47) 2-Chloronaphthalene	9.263	162	432433	41.952	ng	99
48) 2-Nitroaniline	9.369	65	130023	37.587	ng	93
49) Acenaphthylene	9.681	152	624325	40.722	ng	100
50) Dimethylphthalate	9.539	163	497613	40.768	ng	99
51) 2,6-Dinitrotoluene	9.610	165	105812	39.655	ng	95
52) Acenaphthene	9.851	154	405354	39.327	ng	99
53) 3-Nitroaniline	9.781	138	109691	38.195	ng	96
54) 2,4-Dinitrophenol	9.898	184	55724	35.138	ng	90
55) Dibenzofuran	10.022	168	601113	39.732	ng	99
56) 4-Nitrophenol	9.963	139	74346	34.873	ng	89
57) 2,4-Dinitrotoluene	10.016	165	135376	38.111	ng	95
58) Fluorene	10.363	166	462911	39.572	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.145	232	119131	37.977	ng	96
60) Diethylphthalate	10.239	149	475797	39.619	ng	100
61) 4-Chlorophenyl-phenyle...	10.357	204	231758	41.182	ng	97
62) 4-Nitroaniline	10.392	138	102774	35.243	ng	96
63) Azobenzene	10.516	77	459724	38.507	ng	96
65) 4,6-Dinitro-2-methylph...	10.428	198	76253	39.171	ng	90
66) n-Nitrosodiphenylamine	10.475	169	389832	43.456	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	138581	44.246	ng	99
68) Hexachlorobenzene	10.916	284	141111	43.753	ng	98
69) Atrazine	11.004	200	96315	35.789	ng	99
70) Pentachlorophenol	11.116	266	81715	39.625	ng	100
71) Phenanthrene	11.327	178	631134	40.914	ng	100
72) Anthracene	11.380	178	643431	41.494	ng	100
73) Carbazole	11.539	167	535192	38.357	ng	100
74) Di-n-butylphthalate	11.863	149	655095	40.662	ng	99
75) Fluoranthene	12.516	202	600259	36.703	ng	100
77) Benzidine	12.645	184	123930	36.886	ng	100
78) Pyrene	12.745	202	591308	45.595	ng	99
80) Butylbenzylphthalate	13.357	149	198892	44.277	ng	99
81) Benzo(a)anthracene	13.933	228	424696	41.938	ng	100
82) 3,3'-Dichlorobenzidine	13.898	252	128425	44.271	ng	98
83) Chrysene	13.968	228	387162	41.405	ng	98
84) Bis(2-ethylhexyl)phtha...	13.916	149	251728	49.688	ng	100
85) Di-n-octyl phthalate	14.527	149	408656	56.543	ng	98
87) Indeno(1,2,3-cd)pyrene	16.827	276	502156	48.386	ng	99
88) Benzo(b)fluoranthene	14.968	252	393427	34.885	ng	99
89) Benzo(k)fluoranthene	14.998	252	333990	34.682	ng	98
90) Benzo(a)pyrene	15.327	252	369170	40.454	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	412131	49.009	ng	99
92) Benzo(g,h,i)perylene	17.262	276	427677	48.600	ng	100

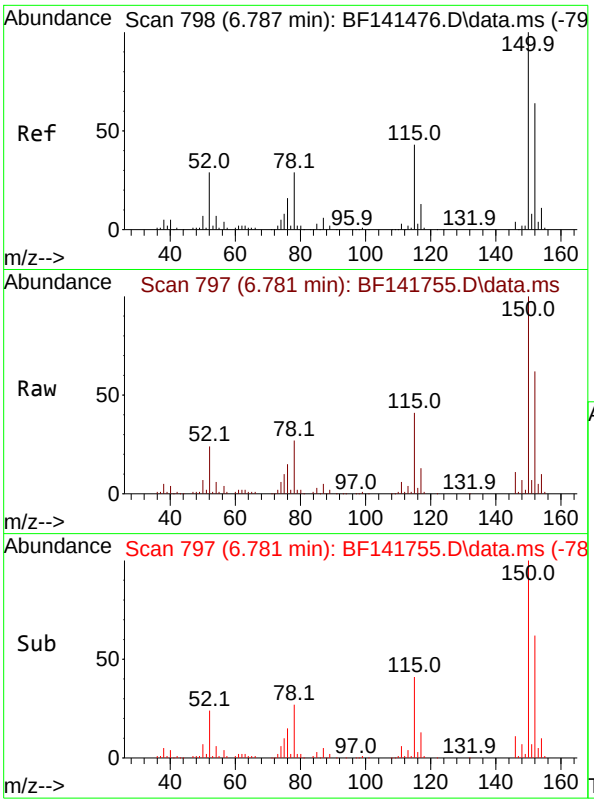
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141755.D
Acq On : 25 Feb 2025 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



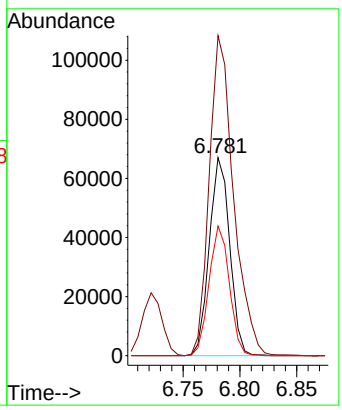


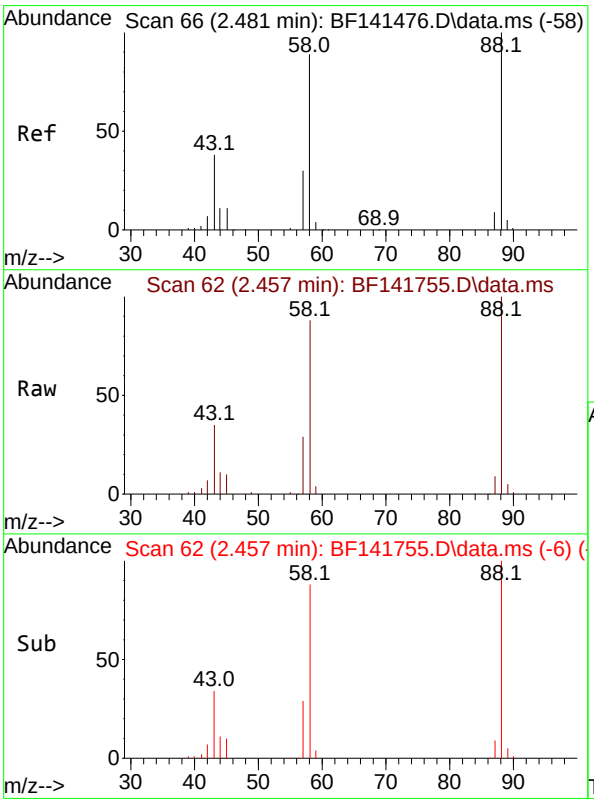
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 83876

Ion	Ratio	Lower	Upper
152	100		
150	161.5	125.0	187.4
115	65.4	53.6	80.4

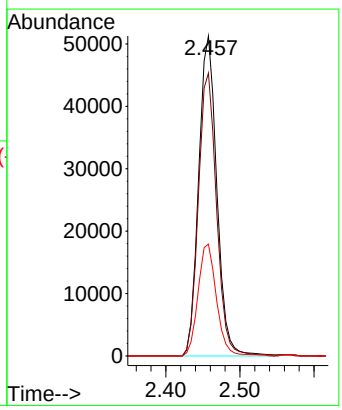


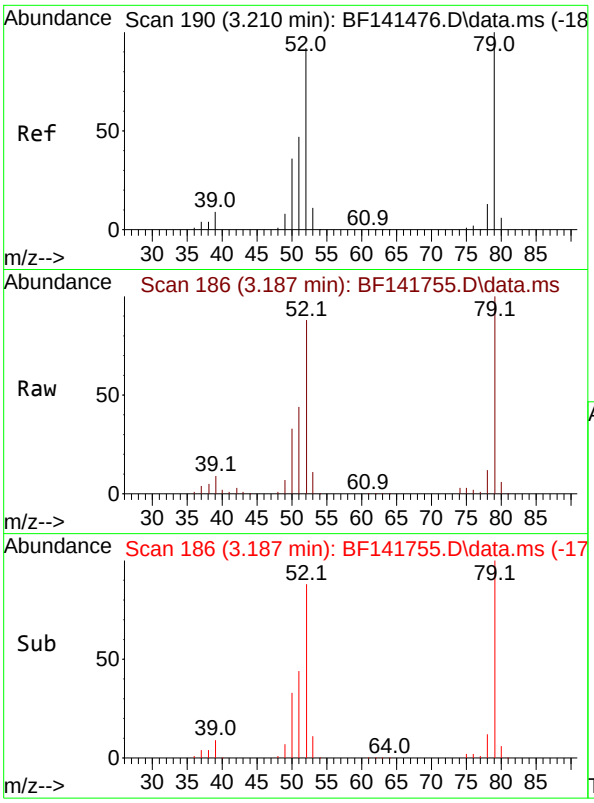


#2
1,4-Dioxane
Concen: 40.569 ng
RT: 2.457 min Scan# 62
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 88 Resp: 87358

Ion	Ratio	Lower	Upper
88	100		
58	88.3	71.1	106.7
43	35.6	30.6	46.0



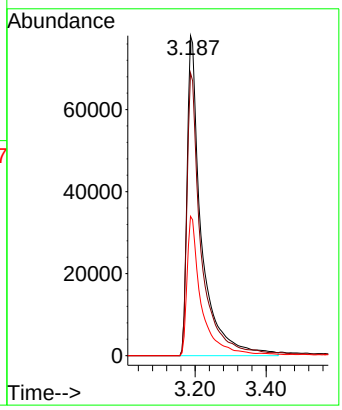


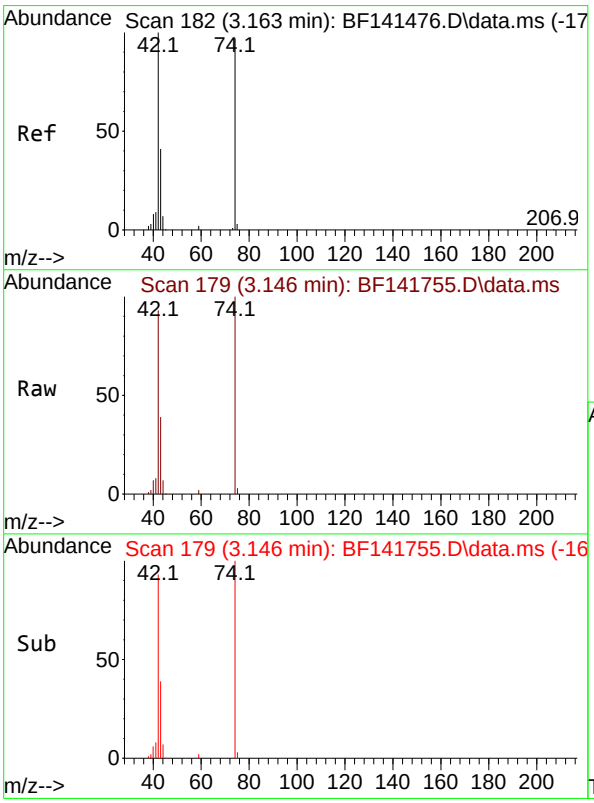
#3
Pyridine
Concen: 42.447 ng
RT: 3.187 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 217499

Ion	Ratio	Lower	Upper
79	100		
52	88.4	73.7	110.5
51	43.6	37.5	56.3

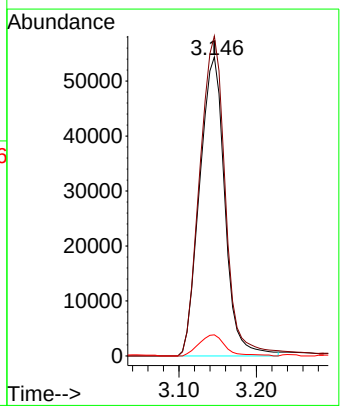


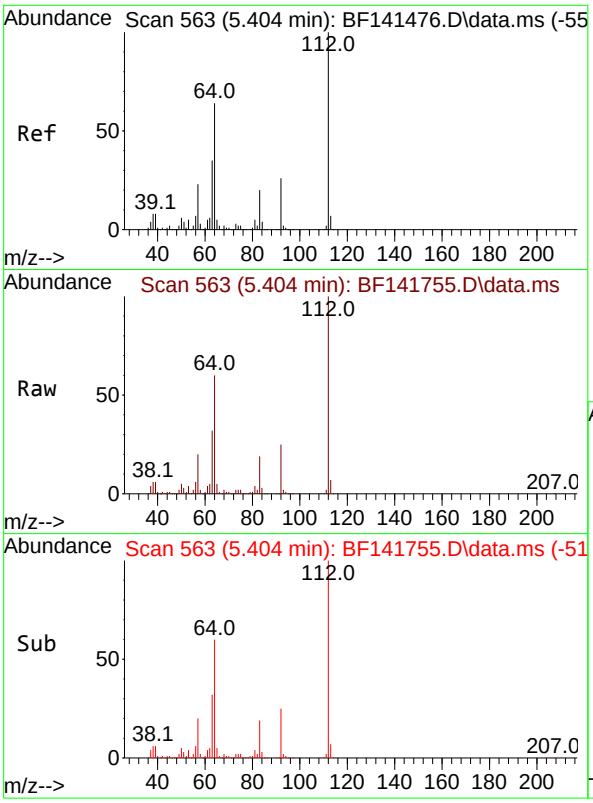


#4
n-Nitrosodimethylamine
Concen: 36.290 ng
RT: 3.146 min Scan# 179
Delta R.T. -0.041 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 42 Resp: 123127

Ion	Ratio	Lower	Upper
42	100		
74	107.0	78.0	117.0
44	7.1	5.4	8.2



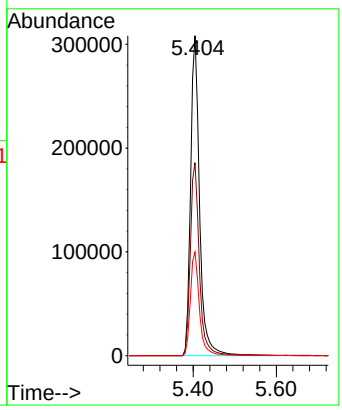


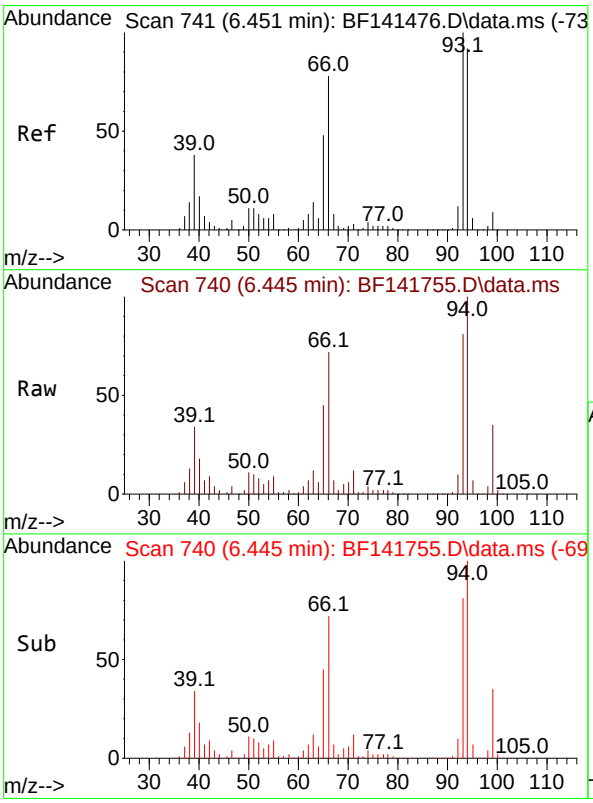
#5
2-Fluorophenol
Concen: 86.457 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 462555

Ion	Ratio	Lower	Upper
112	100		
64	60.3	51.1	76.7
63	32.4	28.4	42.6

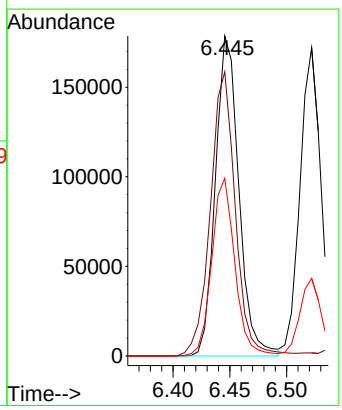


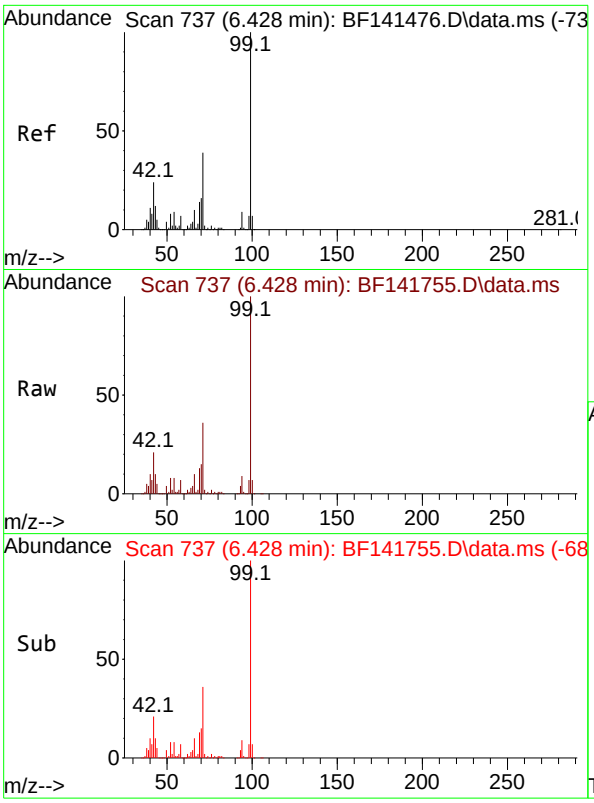


#6
Aniline
Concen: 40.528 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 93 Resp: 257077

Ion	Ratio	Lower	Upper
93	100		
66	88.8	62.6	94.0
65	55.6	38.3	57.5



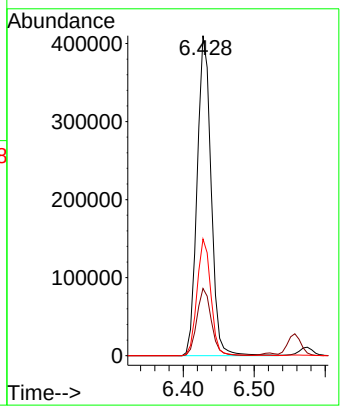


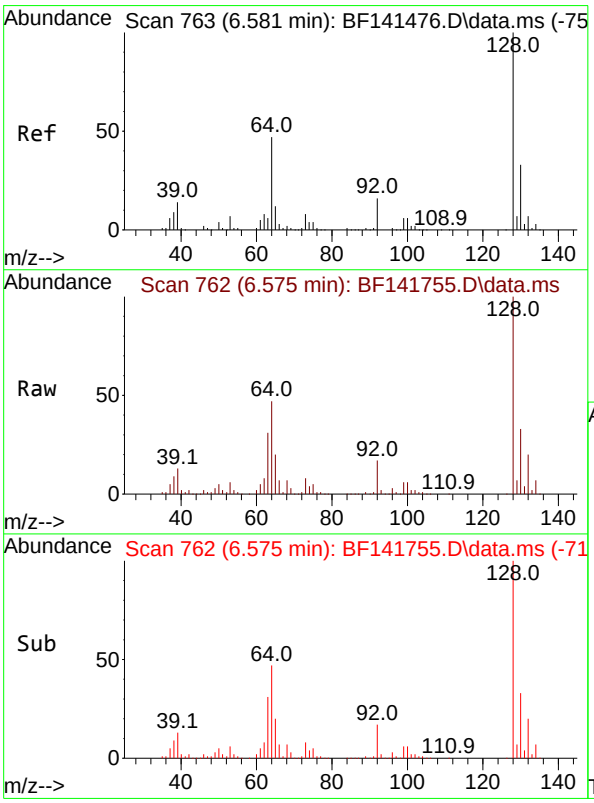
#7
Phenol-d6
Concen: 82.975 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 561086

Ion	Ratio	Lower	Upper
99	100		
42	21.0	19.1	28.7
71	36.4	31.1	46.7

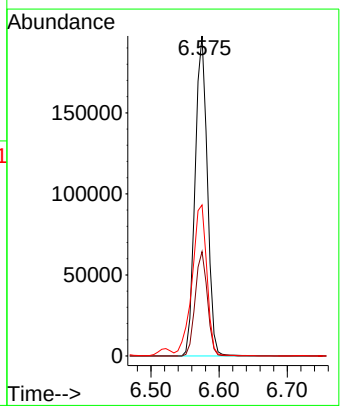


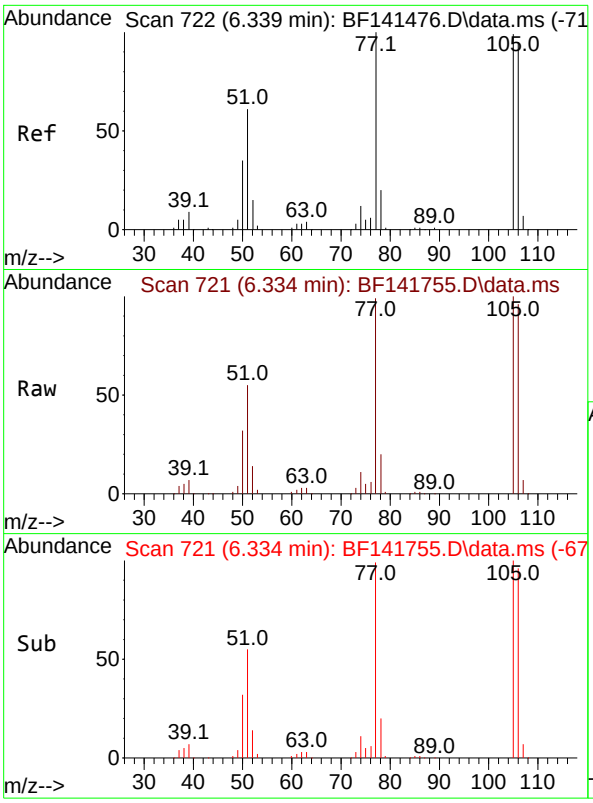


#8
2-Chlorophenol
Concen: 42.450 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:128 Resp: 245401

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.7	52.7
64	47.2	28.3	68.3



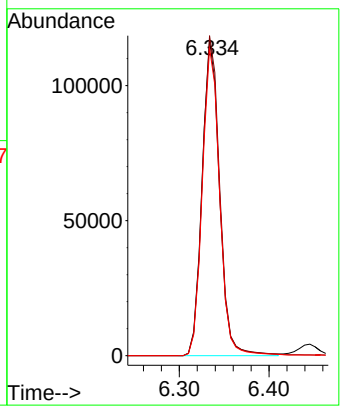


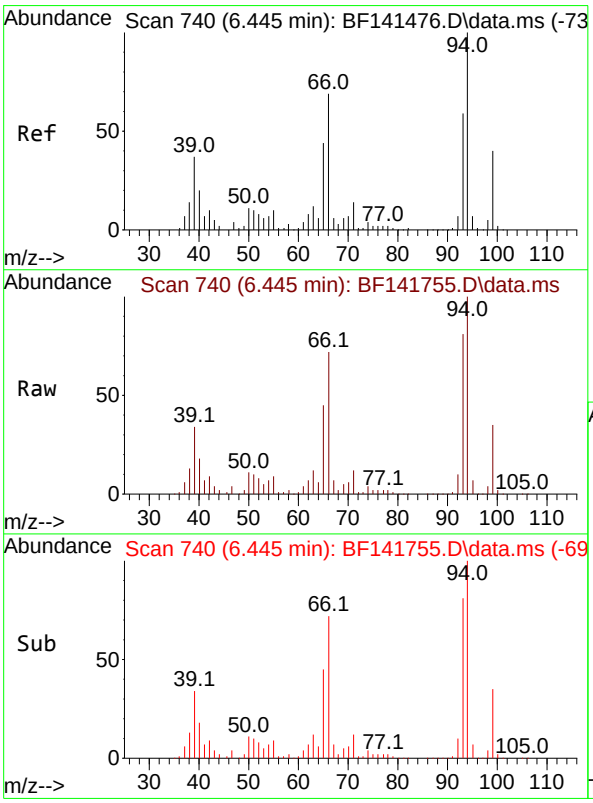
#9
Benzaldehyde
Concen: 43.804 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 157405

Ion	Ratio	Lower	Upper
77	100		
105	101.4	79.4	119.4
106	97.4	75.1	115.1

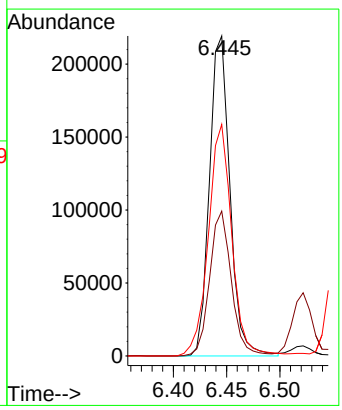


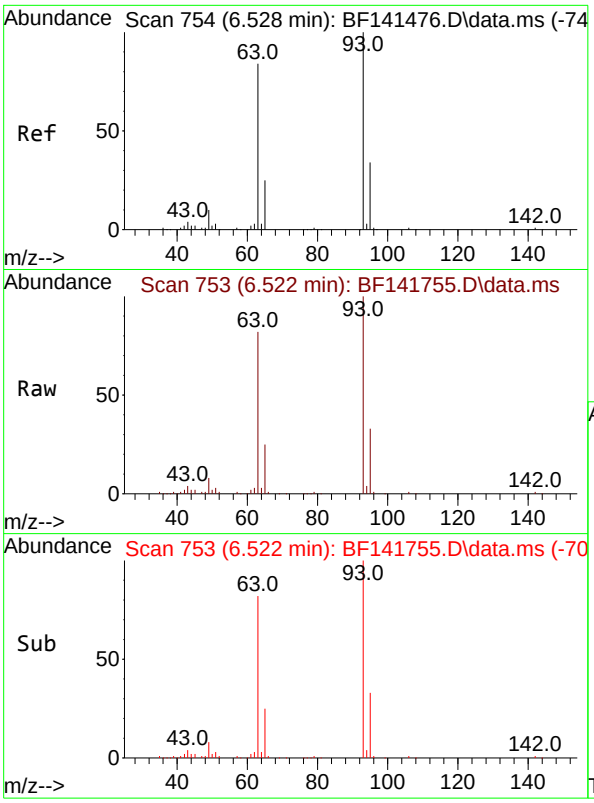


#10
Phenol
Concen: 41.592 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 94 Resp: 292725

Ion	Ratio	Lower	Upper
94	100		
65	45.3	23.7	63.7
66	72.3	49.3	89.3



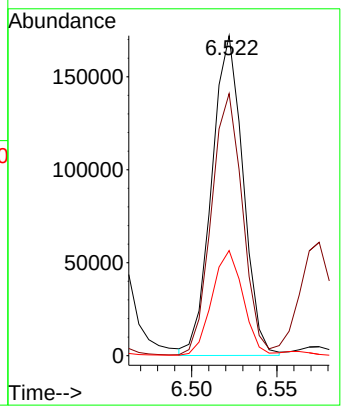


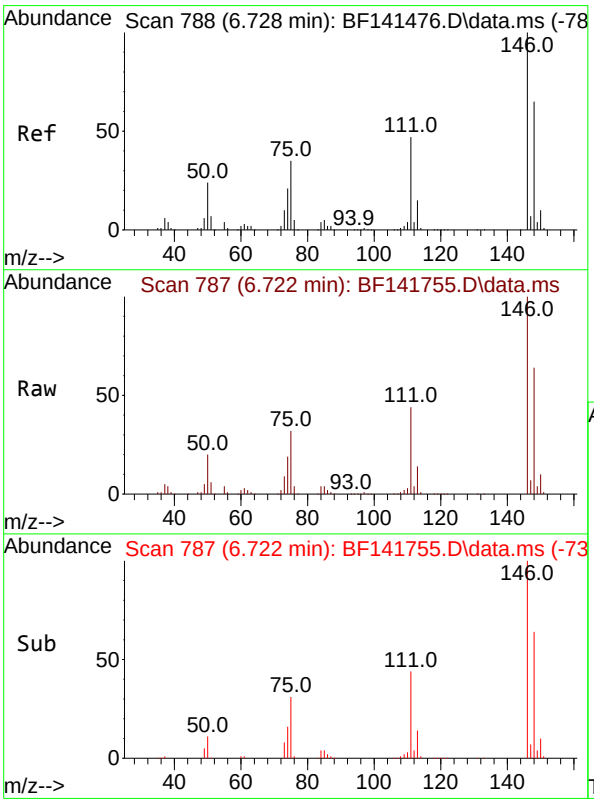
#11
bis(2-Chloroethyl)ether
Concen: 41.592 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 219867

Ion	Ratio	Lower	Upper
93	100		
63	81.9	62.0	102.0
95	32.8	12.6	52.6

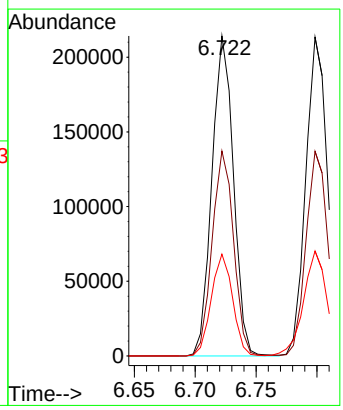


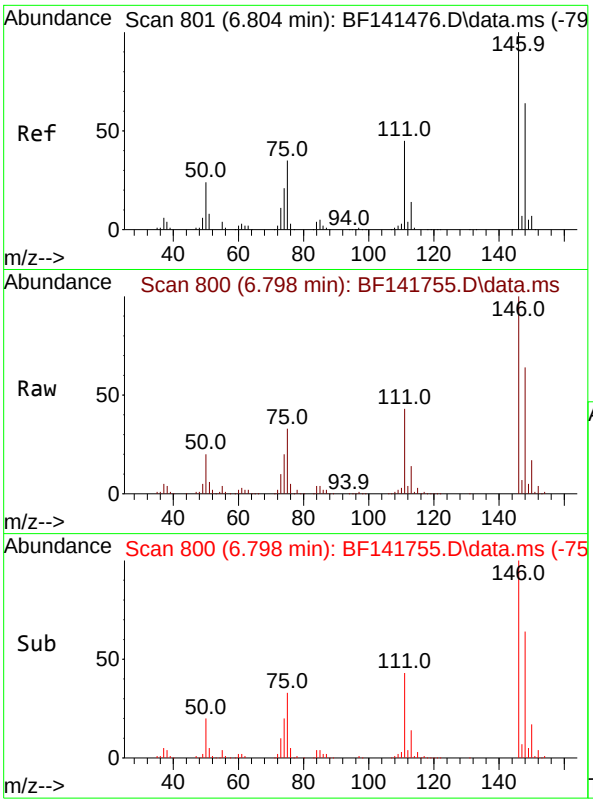


#12
1,3-Dichlorobenzene
Concen: 43.146 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:146 Resp: 263327

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.9	77.9
75	31.8	28.2	42.2



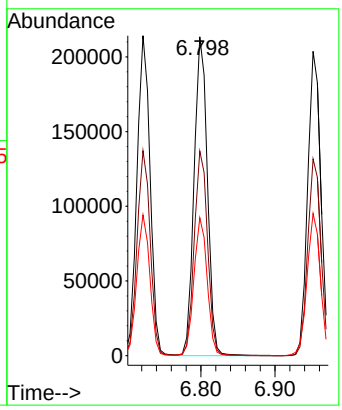


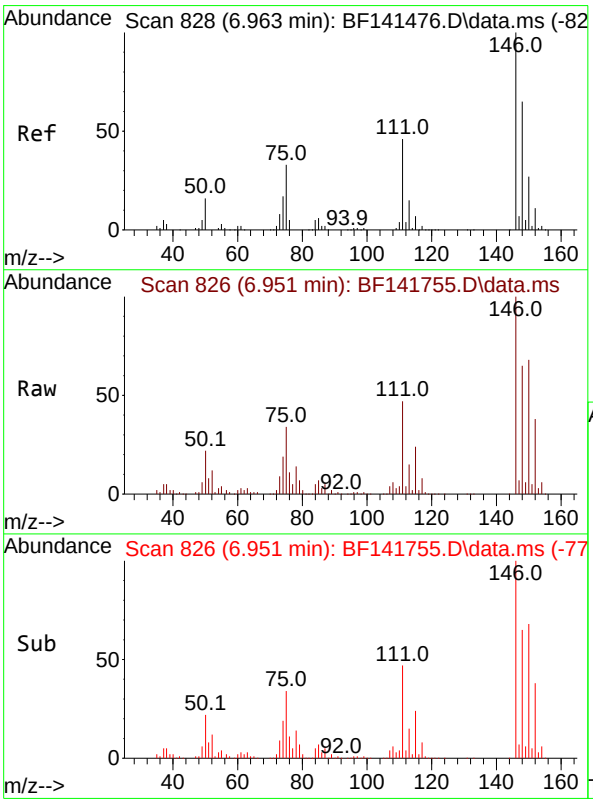
#13
1,4-Dichlorobenzene
Concen: 42.757 ng
RT: 6.798 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 266619

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.9	76.3
111	43.2	35.9	53.9

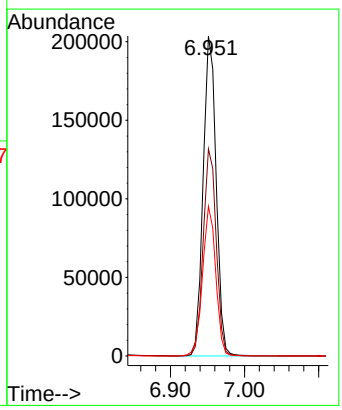


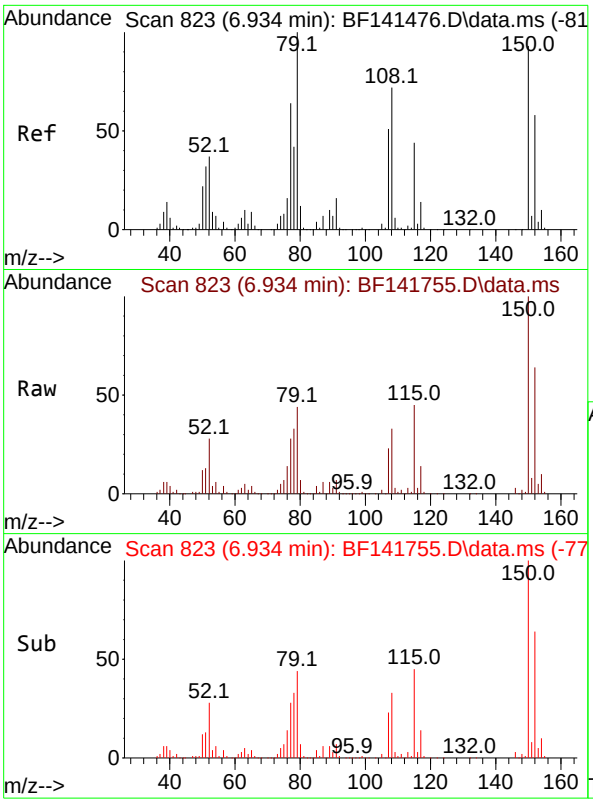


#14
1,2-Dichlorobenzene
Concen: 43.218 ng
RT: 6.951 min Scan# 826
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:146 Resp: 250123

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.8	77.6
111	46.7	37.0	55.4



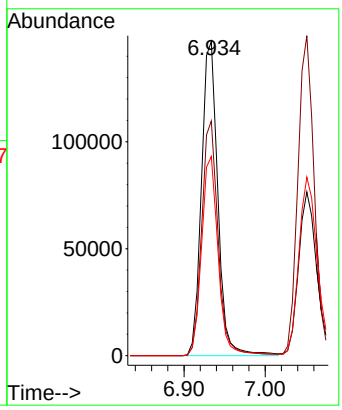


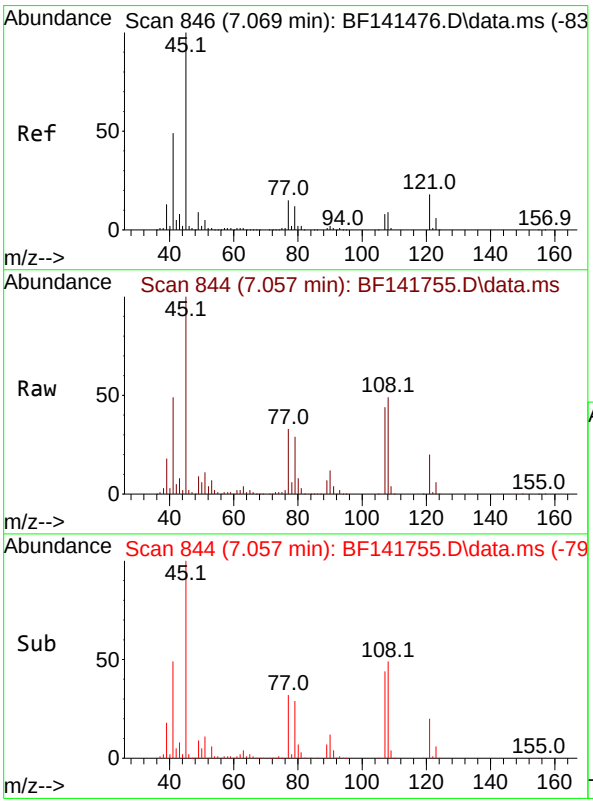
#15
Benzyl Alcohol
Concen: 39.710 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 205915

Ion	Ratio	Lower	Upper
79	100		
108	74.7	57.4	86.2
77	63.4	50.9	76.3

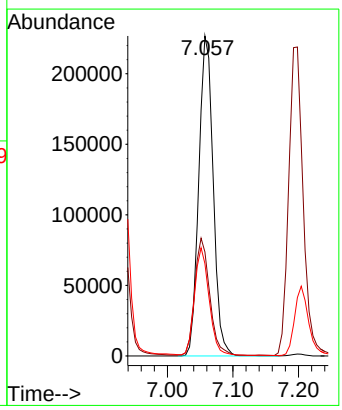


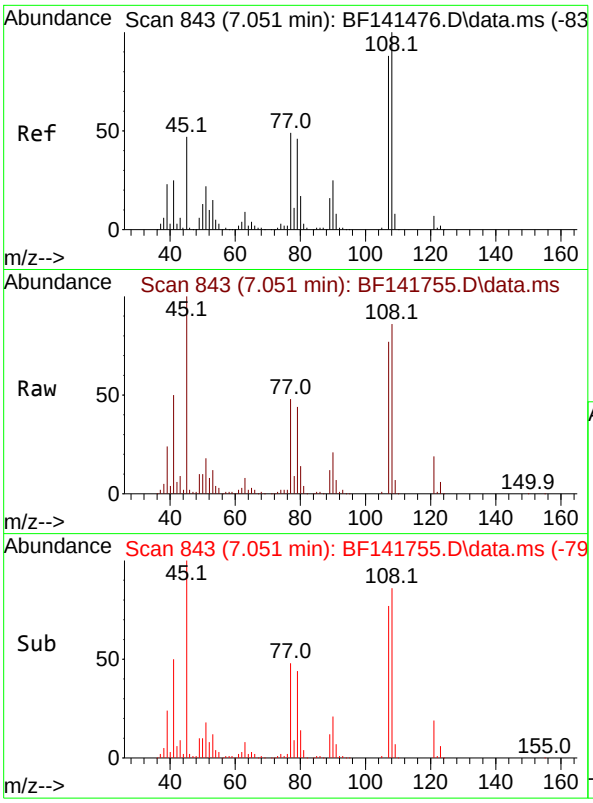


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.422 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 45 Resp: 347691

Ion	Ratio	Lower	Upper
45	100		
77	32.5	0.0	35.8
79	28.8	0.0	32.7



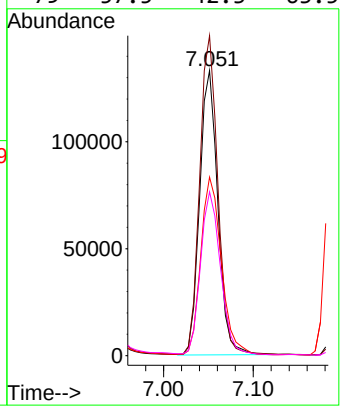


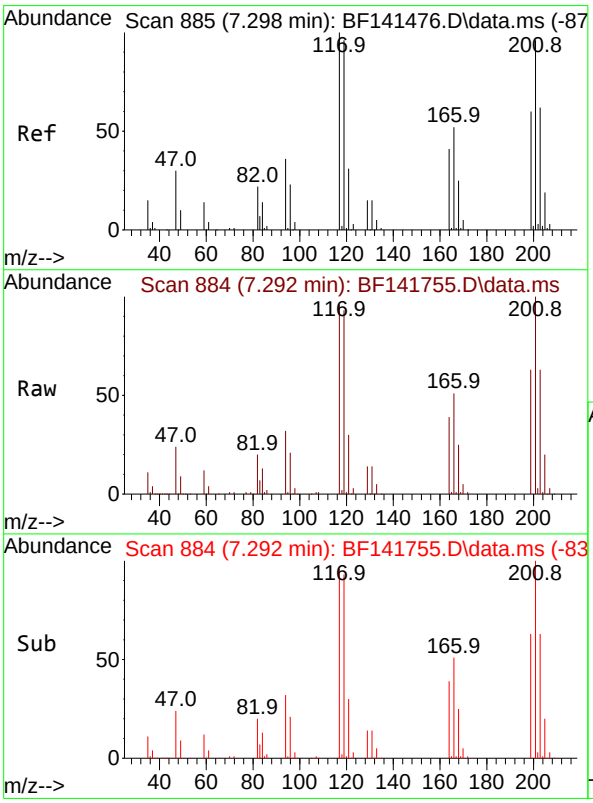
#17
2-Methylphenol
Concen: 41.327 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 186964

Ion	Ratio	Lower	Upper
107	100		
108	112.2	90.6	136.0
77	62.7	44.4	66.6
79	57.5	42.3	63.5

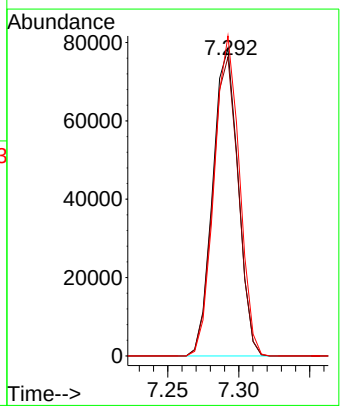


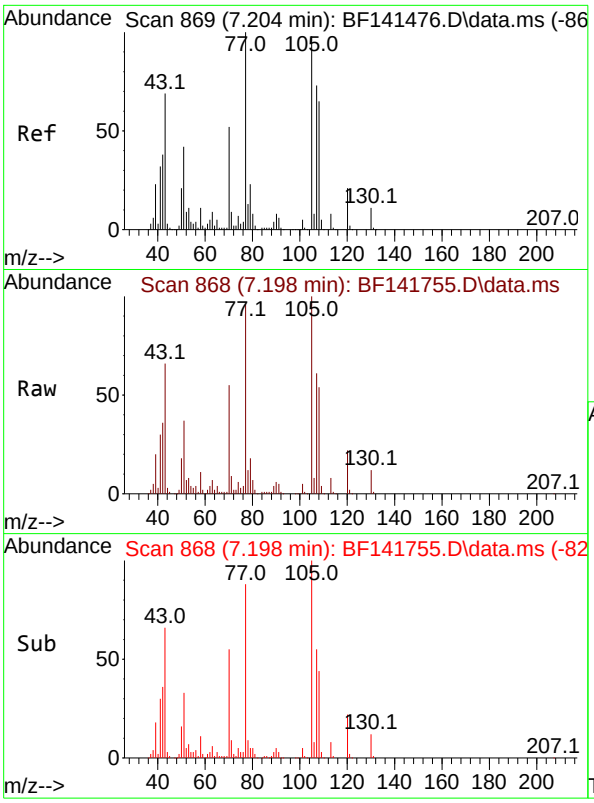


#18
Hexachloroethane
Concen: 42.225 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:117 Resp: 97445

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.5	114.7
201	103.9	76.7	115.1



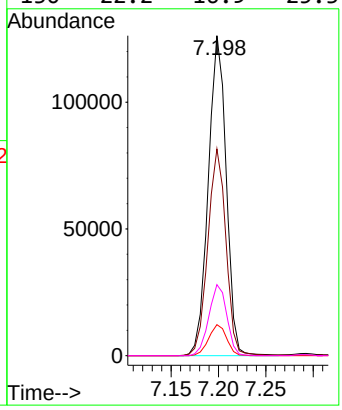


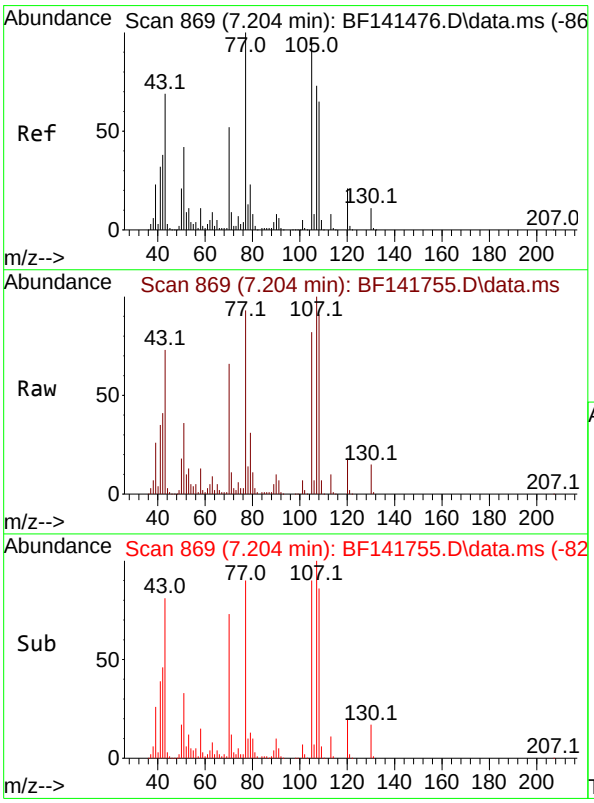
#19
n-Nitroso-di-n-propylamine
Concen: 41.150 ng
RT: 7.198 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 166444

Ion	Ratio	Lower	Upper
70	100		
42	64.6	57.4	86.2
101	9.7	8.0	12.0
130	22.2	16.9	25.3

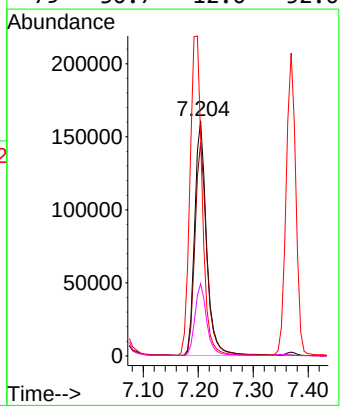


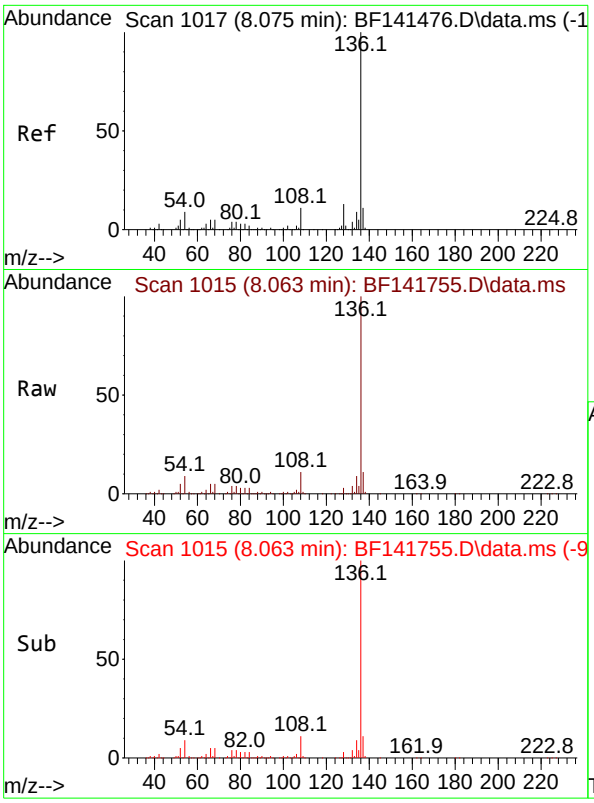


#20
3+4-Methylphenols
Concen: 42.065 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:107 Resp: 241843

Ion	Ratio	Lower	Upper
107	100		
108	90.7	68.5	108.5
77	93.4	116.5	156.5#
79	30.7	12.0	52.0



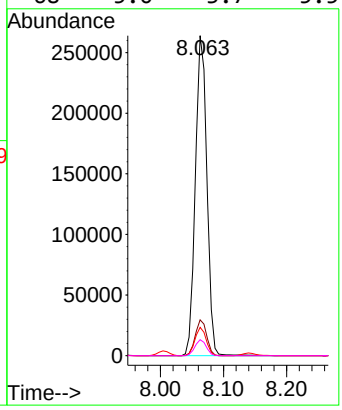


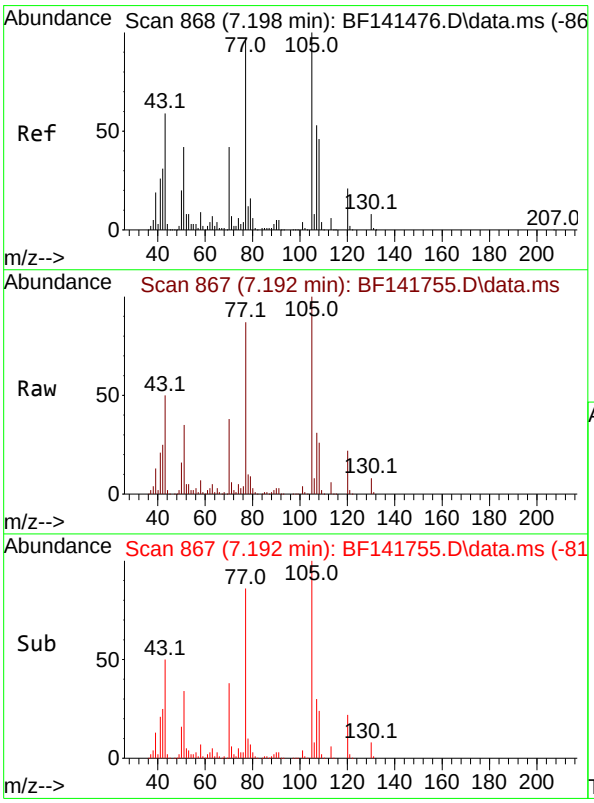
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 333850

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.6	13.0
54	8.9	7.2	10.8
68	5.0	3.7	5.5

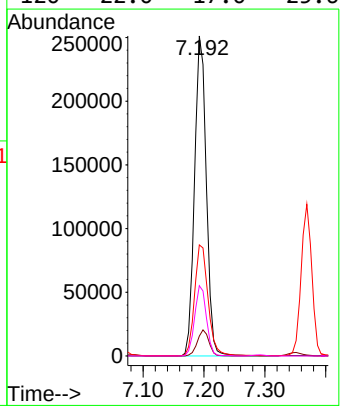


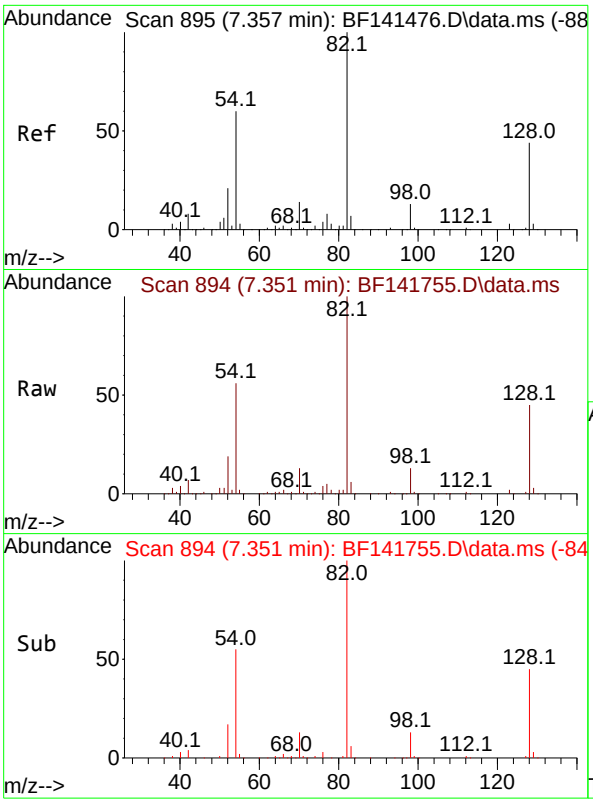


#22
Acetophenone
Concen: 40.679 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:105 Resp: 337823

Ion	Ratio	Lower	Upper
105	100		
71	6.2	5.7	8.5
51	34.7	33.7	50.5
120	22.0	17.0	25.6



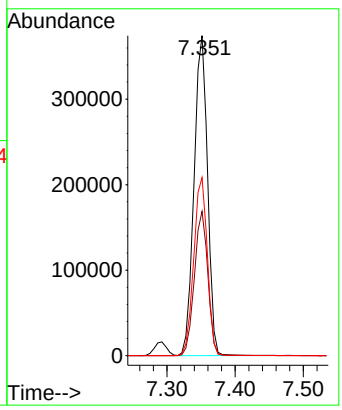


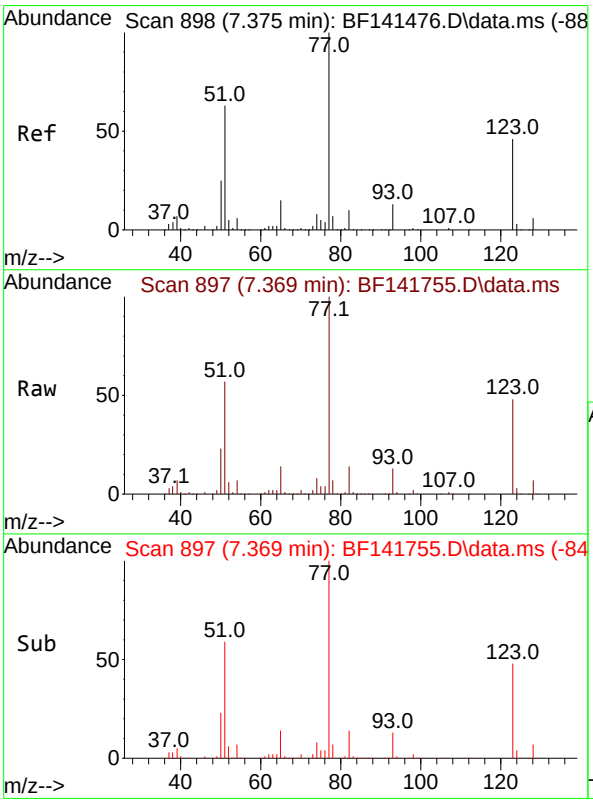
#23
Nitrobenzene-d5
Concen: 80.153 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 513035

Ion	Ratio	Lower	Upper
82	100		
128	45.1	34.8	52.2
54	55.7	48.2	72.4

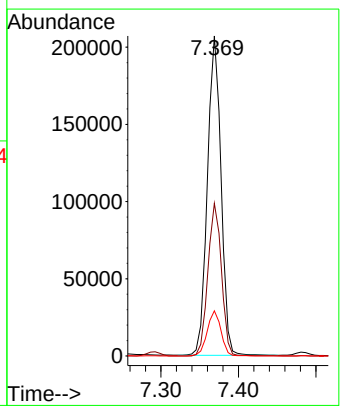


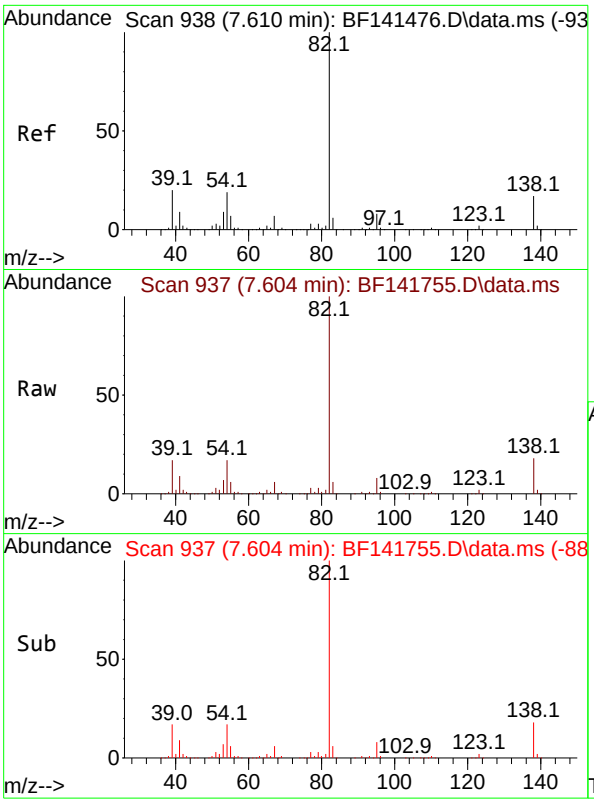


#24
Nitrobenzene
Concen: 40.343 ng
RT: 7.369 min Scan# 897
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 77 Resp: 251798

Ion	Ratio	Lower	Upper
77	100		
123	47.7	36.9	55.3
65	14.1	11.9	17.9



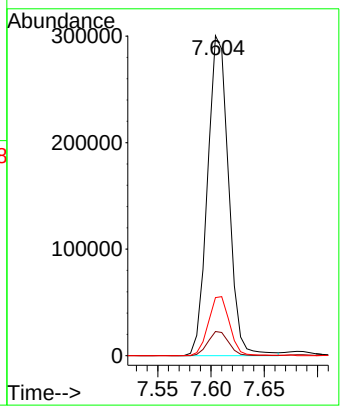


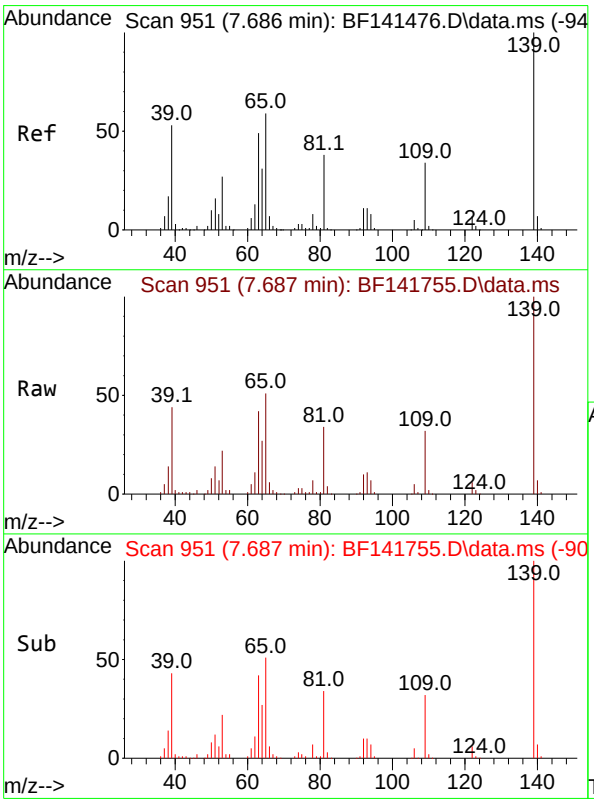
#25
Isophorone
Concen: 40.460 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 412929

Ion	Ratio	Lower	Upper
82	100		
95	7.5	6.4	9.6
138	18.2	13.9	20.9

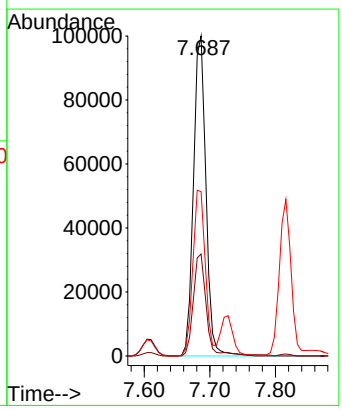


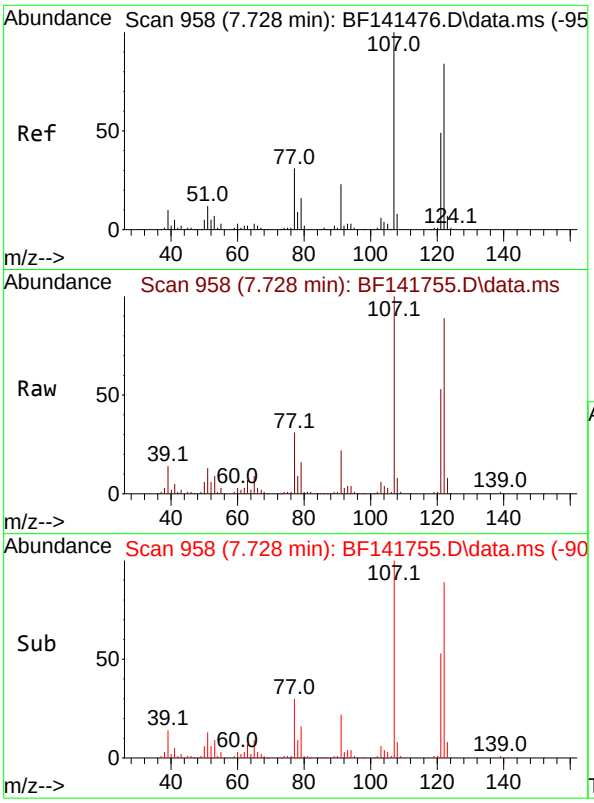


#26
2-Nitrophenol
Concen: 42.764 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:139 Resp: 132793

Ion	Ratio	Lower	Upper
139	100		
109	31.8	27.0	40.6
65	51.4	47.1	70.7



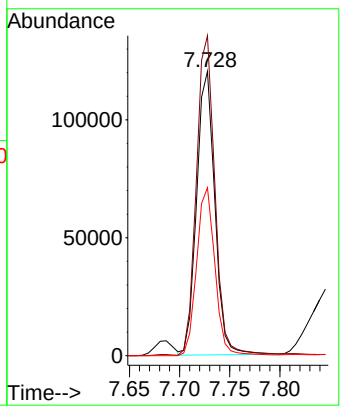


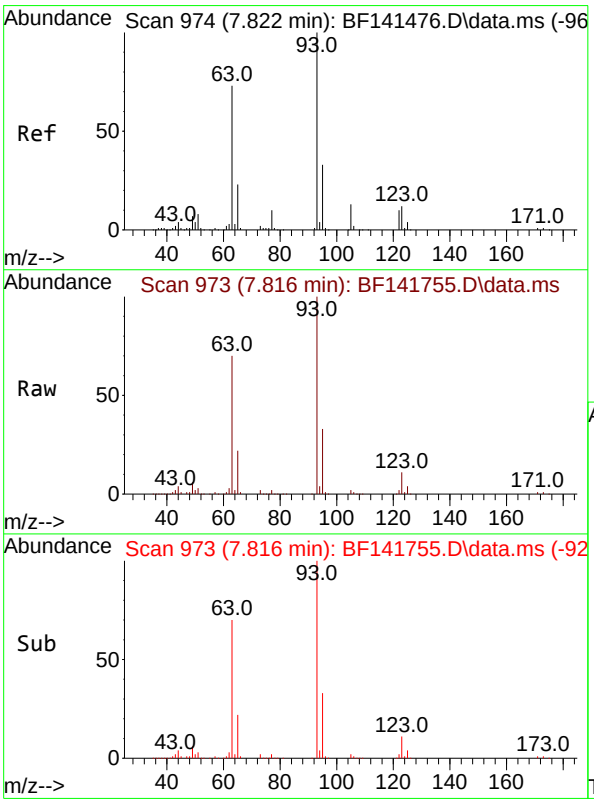
#27
2,4-Dimethylphenol
Concen: 42.025 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 152449

Ion	Ratio	Lower	Upper
122	100		
107	112.6	94.3	141.5
121	59.1	46.0	69.0

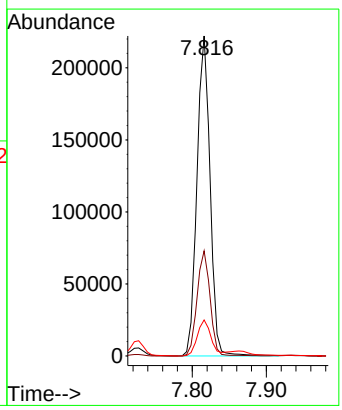


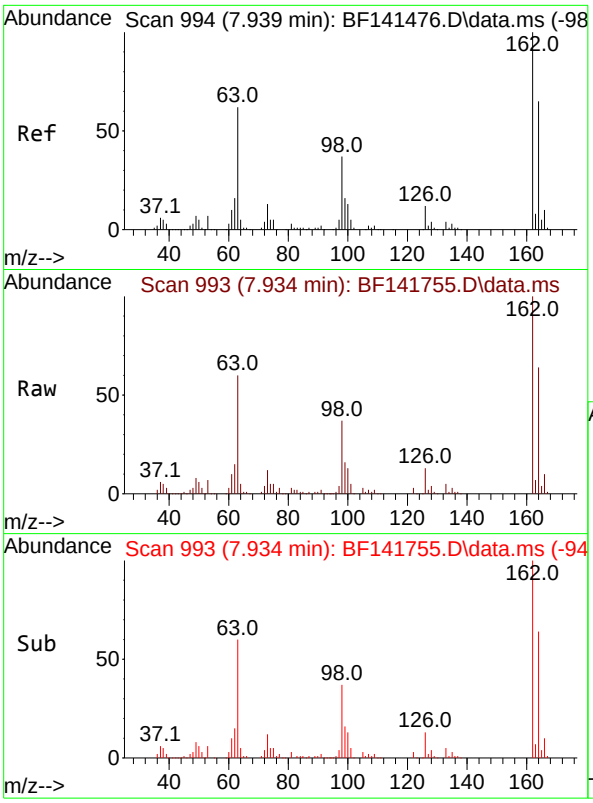


#28
bis(2-Chloroethoxy)methane
Concen: 41.812 ng
RT: 7.816 min Scan# 973
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 93 Resp: 273434

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.1	39.1
123	11.3	9.5	14.3



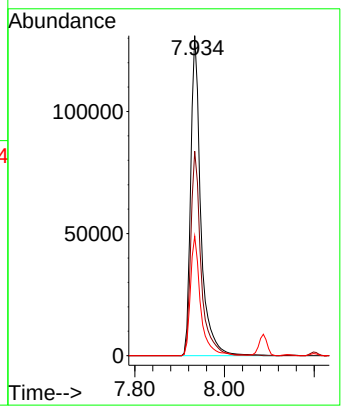


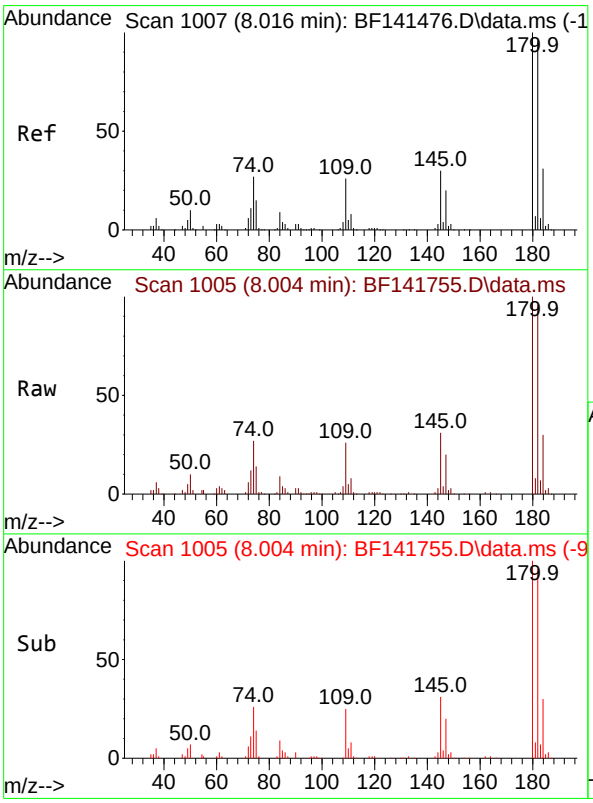
#29
2,4-Dichlorophenol
Concen: 41.878 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 205263

Ion	Ratio	Lower	Upper
162	100		
164	63.9	44.6	84.6
98	37.4	17.2	57.2

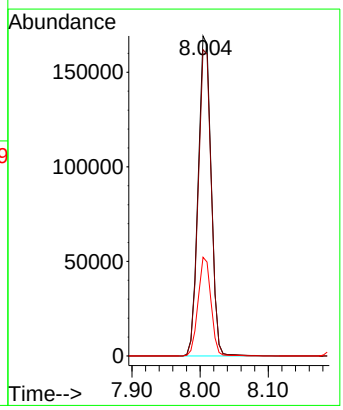


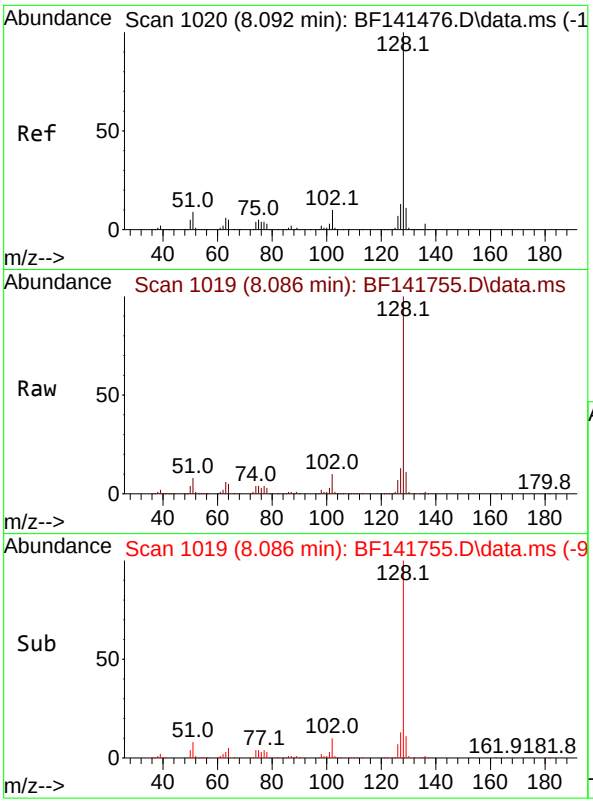


#30
1,2,4-Trichlorobenzene
Concen: 41.760 ng
RT: 8.004 min Scan# 1005
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:180 Resp: 222891

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.8	115.2
145	30.8	24.2	36.4



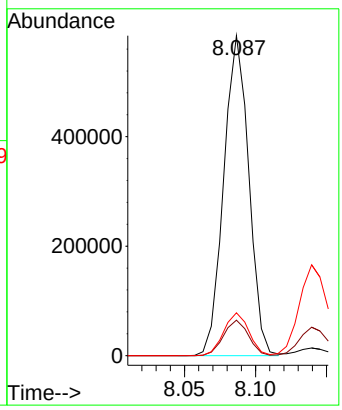


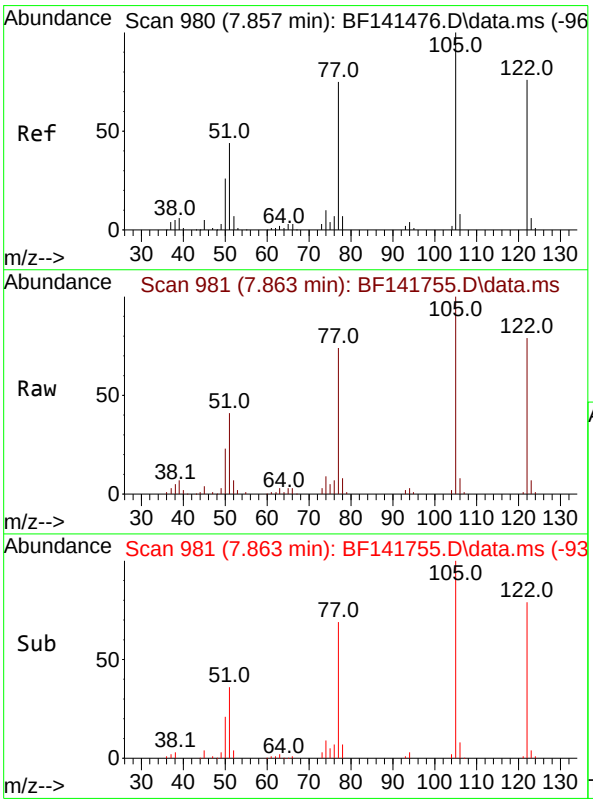
#31
Naphthalene
Concen: 41.216 ng
RT: 8.086 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 716264

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.7	16.1

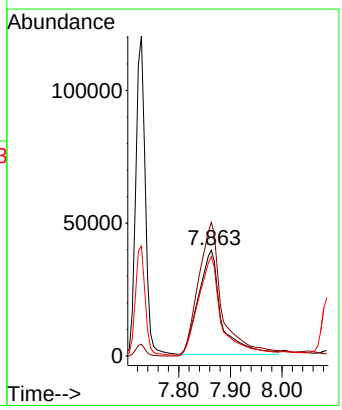


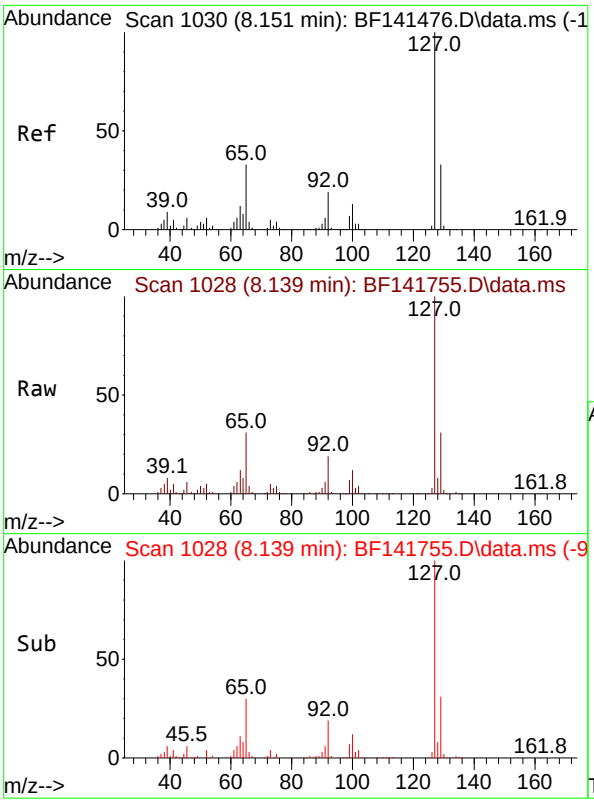


#32
Benzoic acid
Concen: 32.162 ng
RT: 7.863 min Scan# 981
Delta R.T. -0.029 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:122 Resp: 121186

Ion	Ratio	Lower	Upper
122	100		
105	126.4	106.5	146.5
77	94.0	76.3	116.3



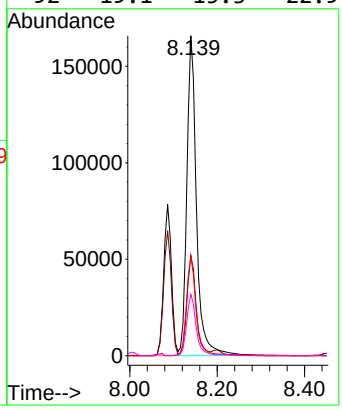


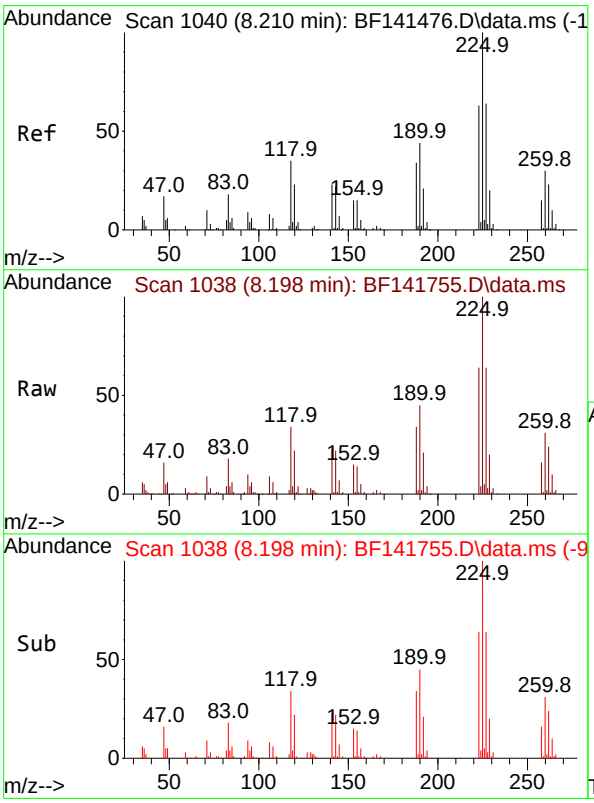
#33
4-Chloroaniline
Concen: 41.733 ng
RT: 8.139 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 253211

Ion	Ratio	Lower	Upper
127	100		
129	31.3	26.5	39.7
65	31.1	26.4	39.6
92	19.1	15.3	22.9

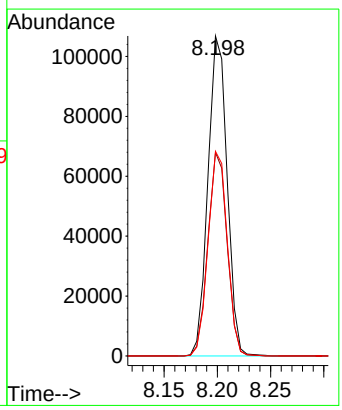


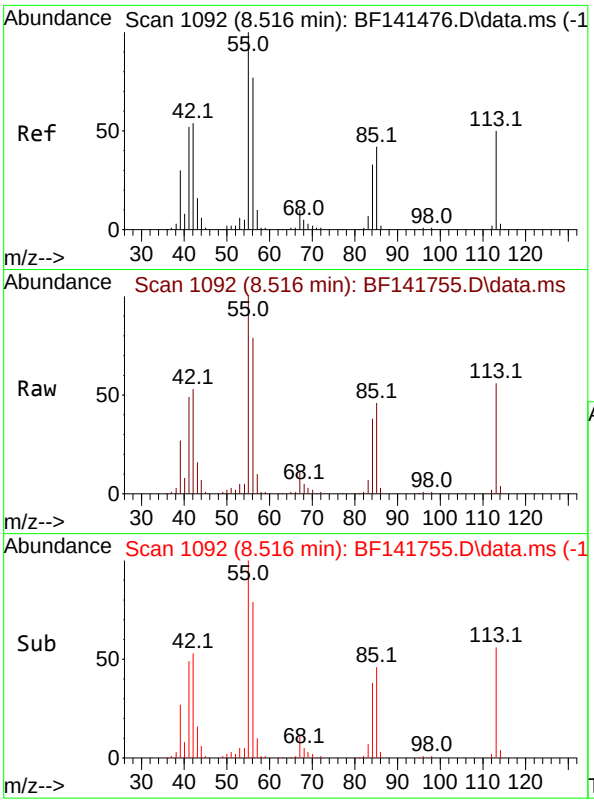


#34
Hexachlorobutadiene
Concen: 41.794 ng
RT: 8.198 min Scan# 1038
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:225 Resp: 133921

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.1	75.1
227	63.9	51.0	76.6



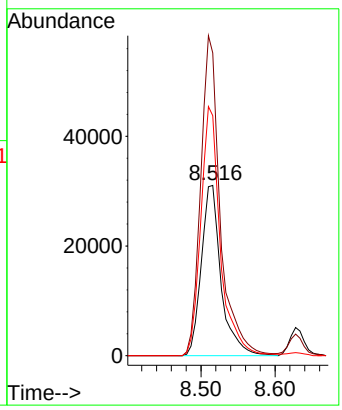


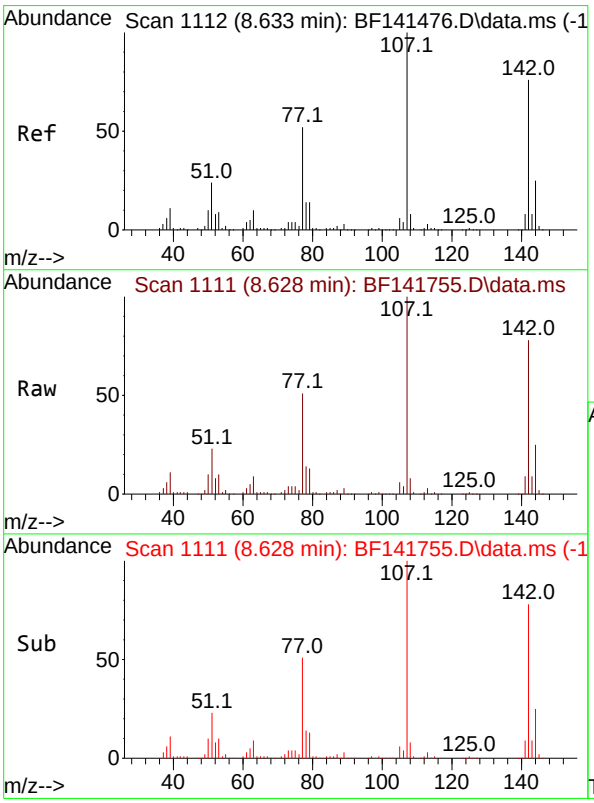
#35
Caprolactam
Concen: 38.568 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 57557

Ion	Ratio	Lower	Upper
113	100		
55	177.7	180.8	220.8#
56	140.9	133.6	173.6

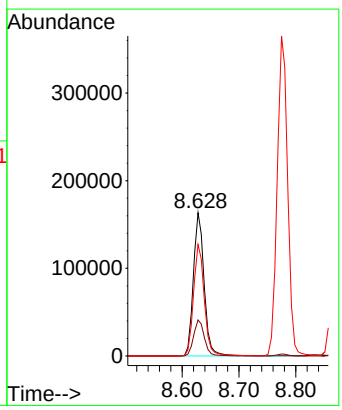


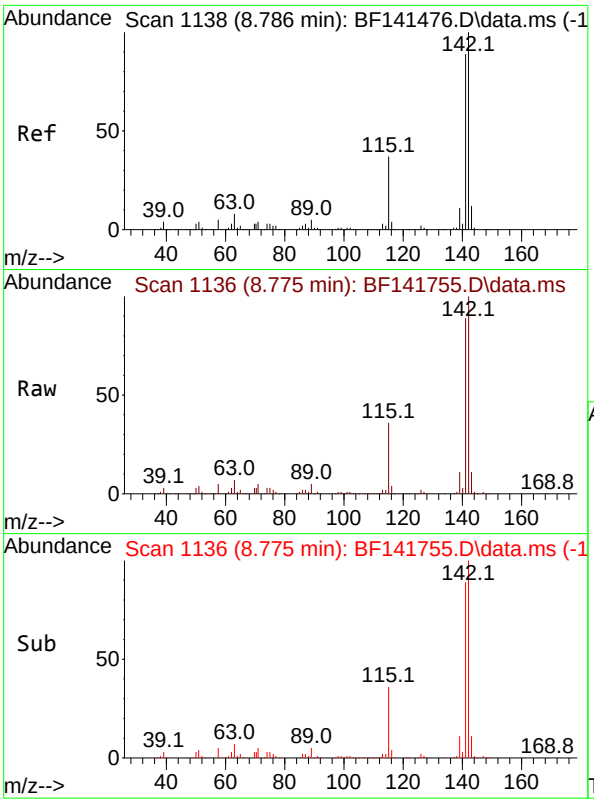


#36
4-Chloro-3-methylphenol
Concen: 39.939 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:107 Resp: 216842

Ion	Ratio	Lower	Upper
107	100		
144	25.2	19.7	29.5
142	77.9	60.8	91.2



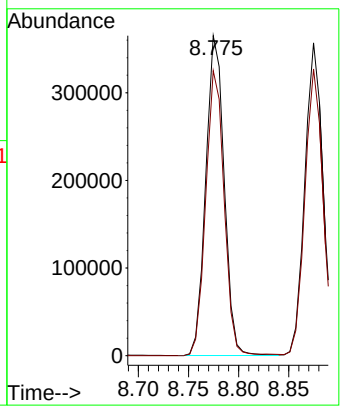


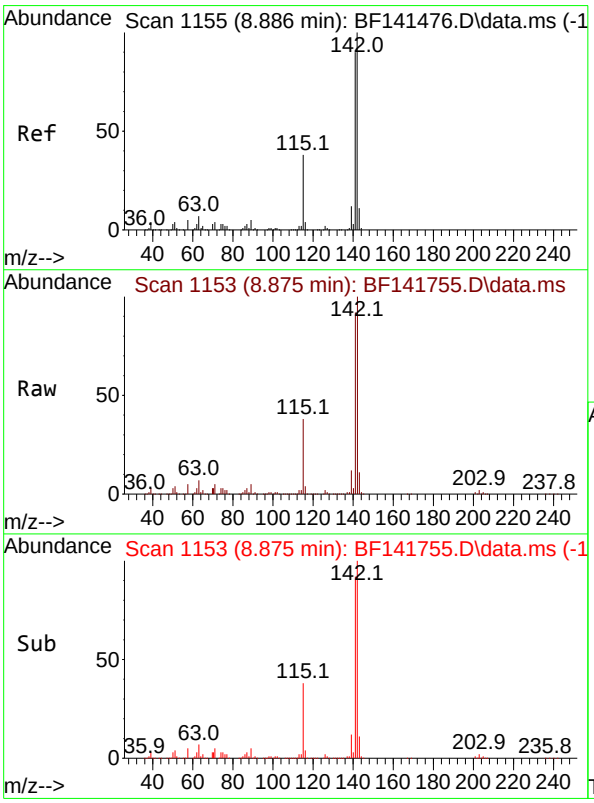
#37
2-Methylnaphthalene
Concen: 41.309 ng
RT: 8.775 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 467144

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.2	106.8

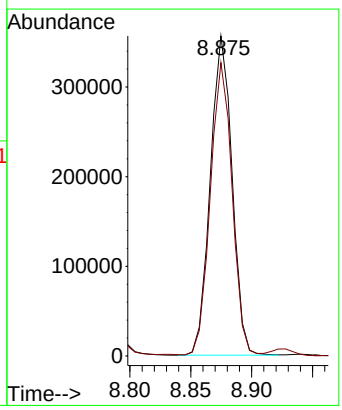


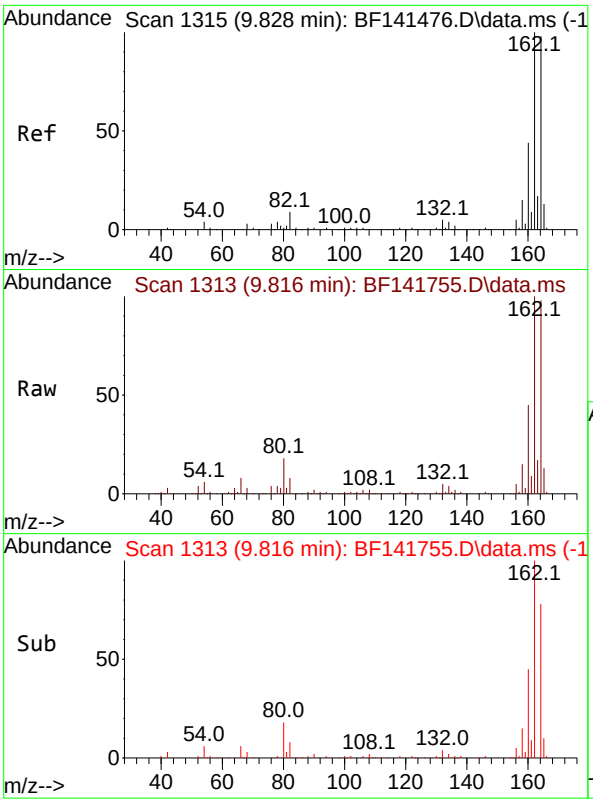


#38
1-Methylnaphthalene
Concen: 40.360 ng
RT: 8.875 min Scan# 1153
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:142 Resp: 442044

Ion	Ratio	Lower	Upper
142	100		
141	91.7	72.1	108.1



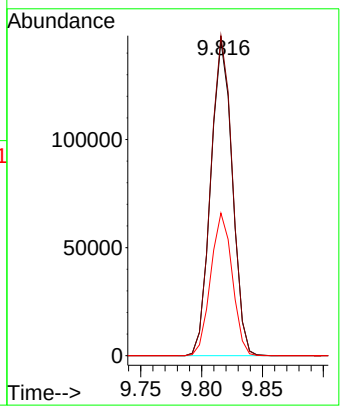


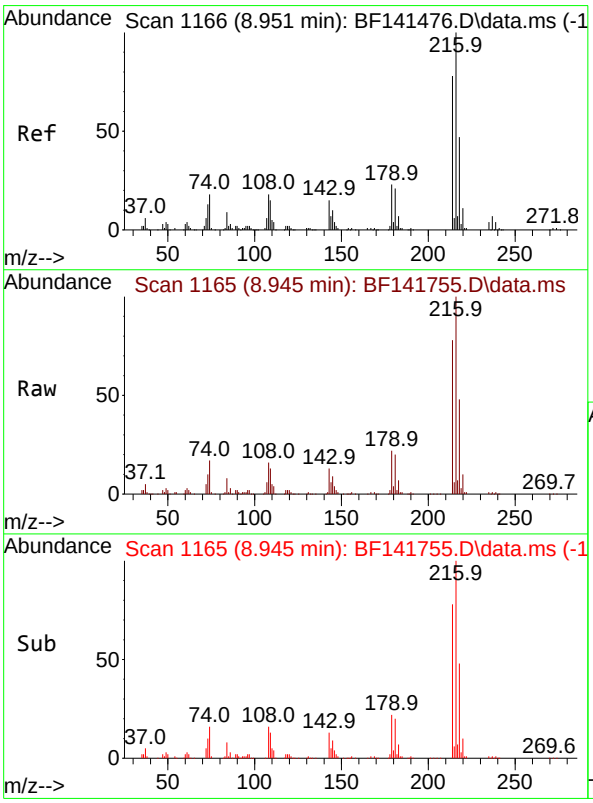
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 179797

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.3	121.9
160	45.3	35.9	53.9

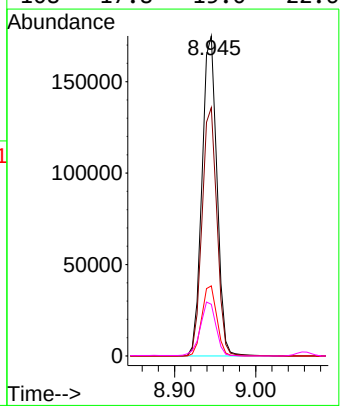


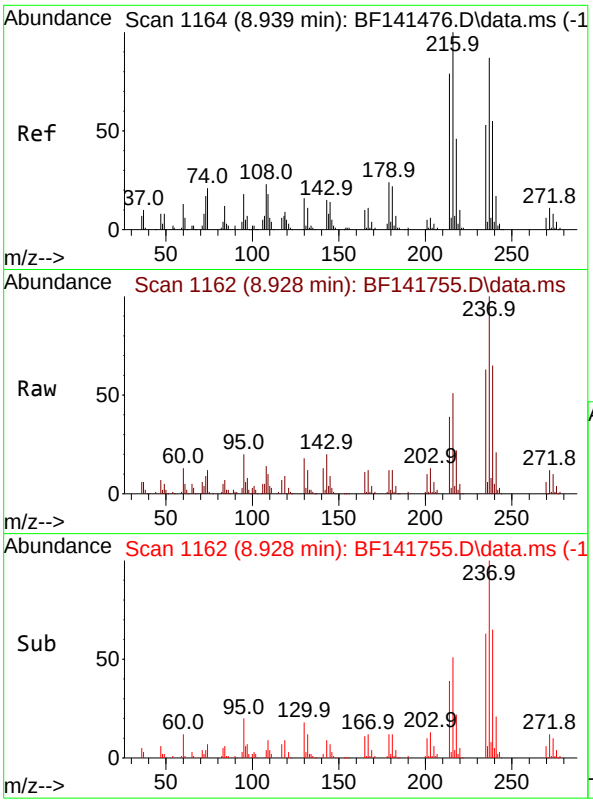


#40
1,2,4,5-Tetrachlorobenzene
Concen: 42.881 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:216 Resp: 223056

Ion	Ratio	Lower	Upper
216	100		
214	77.5	62.3	93.5
179	21.9	18.0	27.0
108	17.8	15.0	22.6



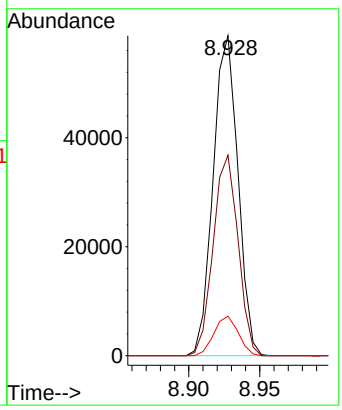


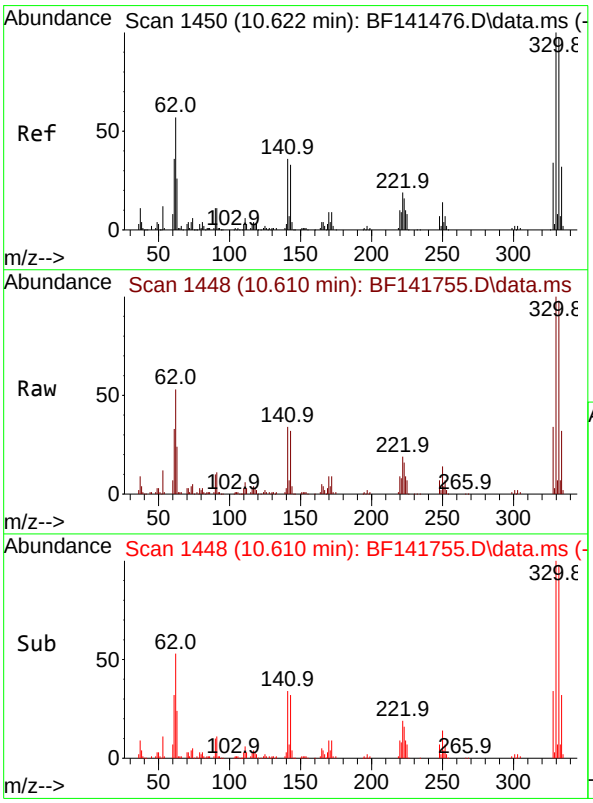
#41
Hexachlorocyclopentadiene
Concen: 41.208 ng
RT: 8.928 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 71295

Ion	Ratio	Lower	Upper
237	100		
235	62.7	41.4	81.4
272	12.4	0.0	32.4

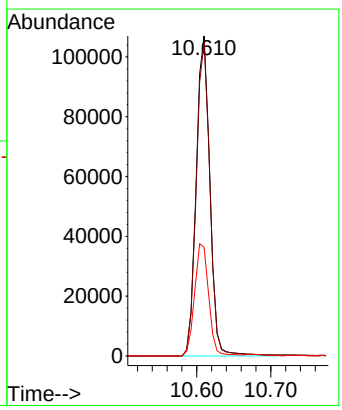


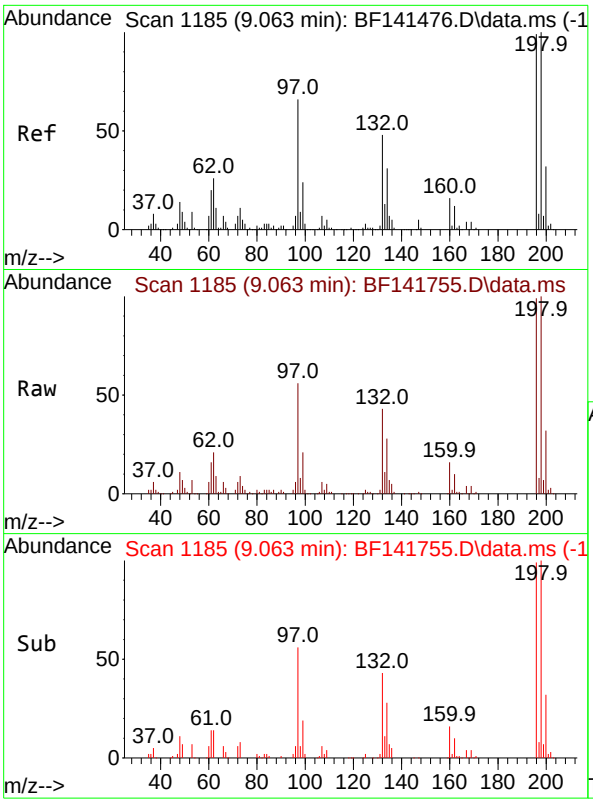


#42
2,4,6-Tribromophenol
Concen: 76.201 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:330 Resp: 137629

Ion	Ratio	Lower	Upper
330	100		
332	98.0	78.5	117.7
141	36.0	31.0	46.4



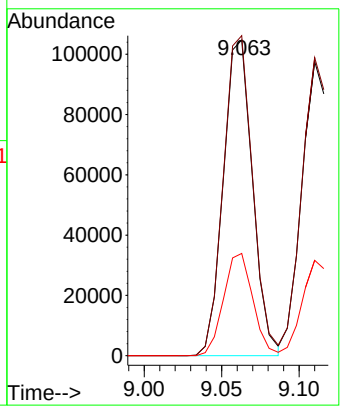


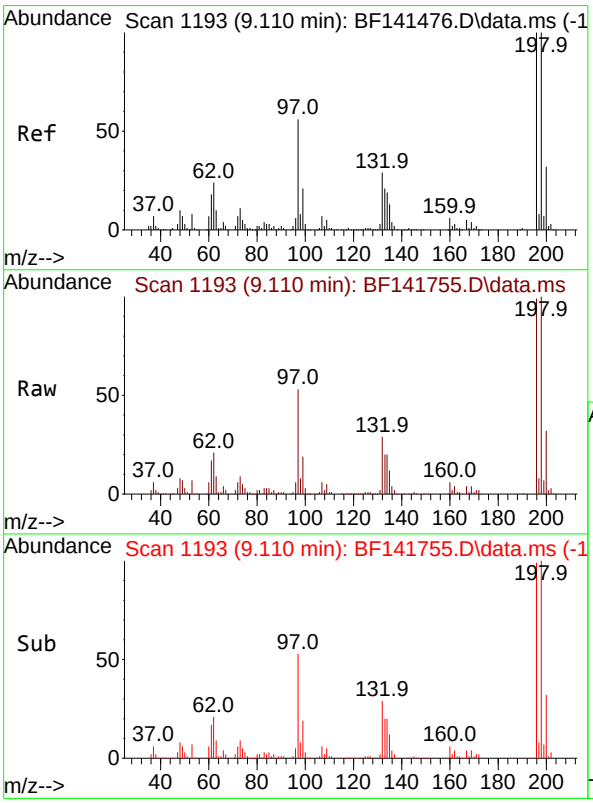
#43
2,4,6-Trichlorophenol
Concen: 40.921 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 137576

Ion	Ratio	Lower	Upper
196	100		
198	101.4	80.6	121.0
200	32.4	25.5	38.3

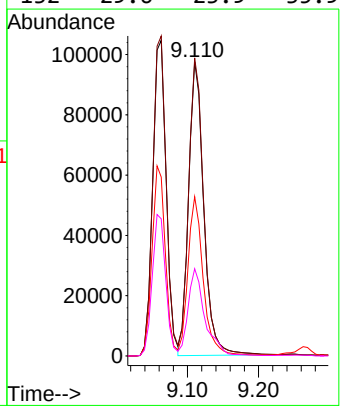


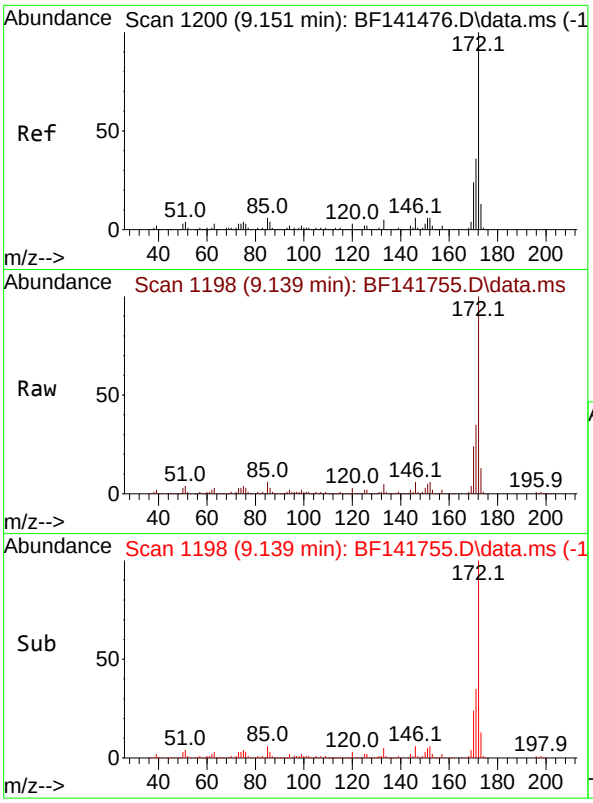


#44
2,4,5-Trichlorophenol
Concen: 39.849 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:196 Resp: 145193

Ion	Ratio	Lower	Upper
196	100		
198	101.3	79.8	119.8
97	54.1	44.8	67.2
132	29.6	23.9	35.9



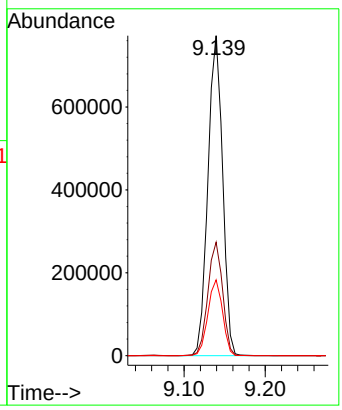


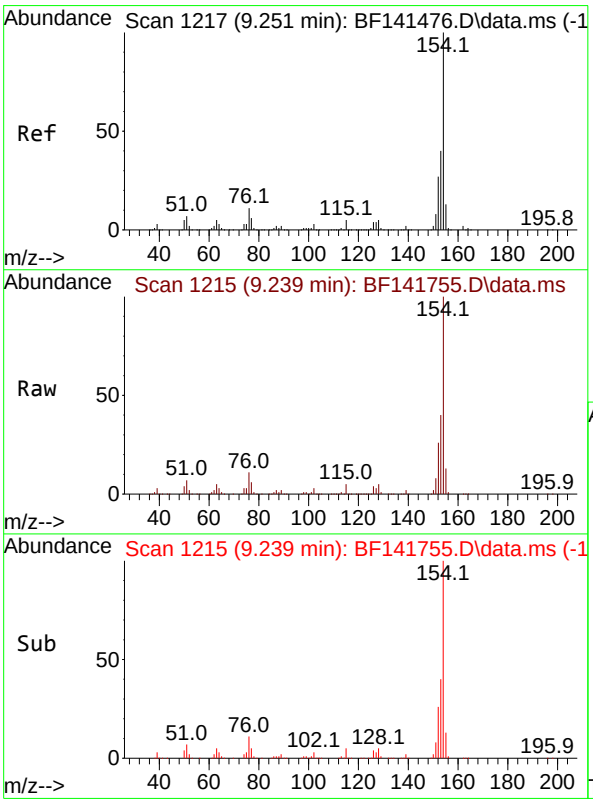
#45
2-Fluorobiphenyl
Concen: 82.817 ng
RT: 9.139 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 966496

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.7	43.1
170	23.7	18.9	28.3

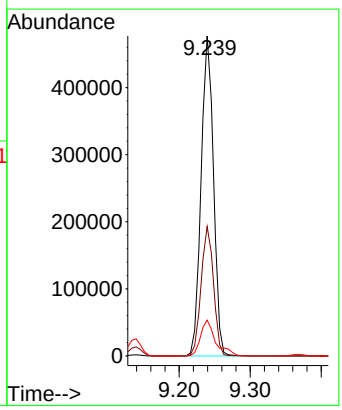


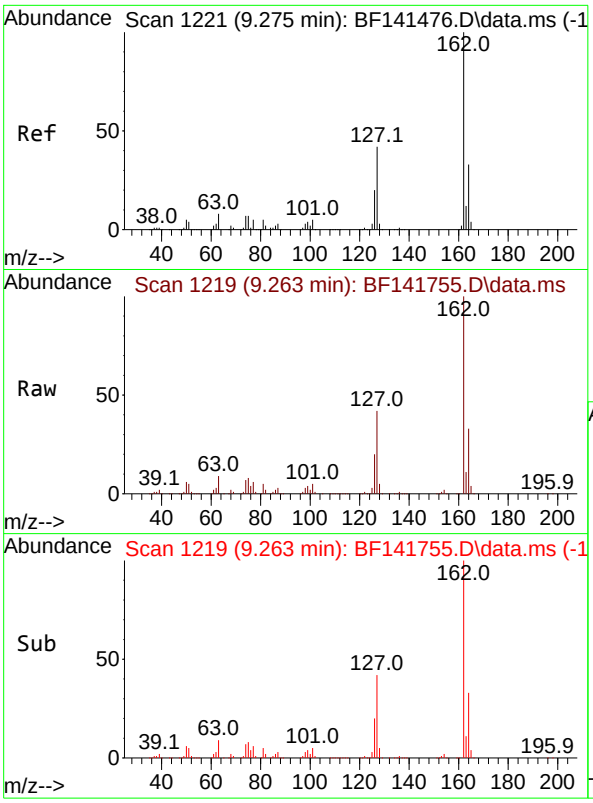


#46
1,1'-Biphenyl
Concen: 41.602 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:154 Resp: 579898

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	11.2	0.0	30.8



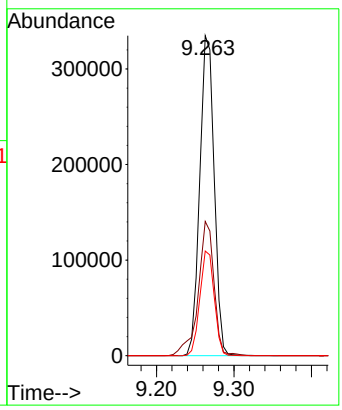


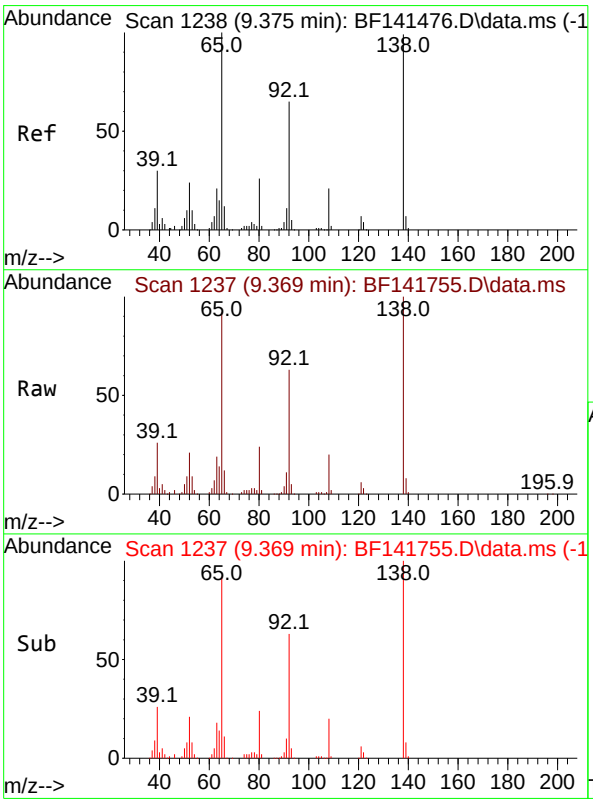
#47
2-Chloronaphthalene
Concen: 41.952 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 432433

Ion	Ratio	Lower	Upper
162	100		
127	42.0	34.1	51.1
164	32.7	26.3	39.5

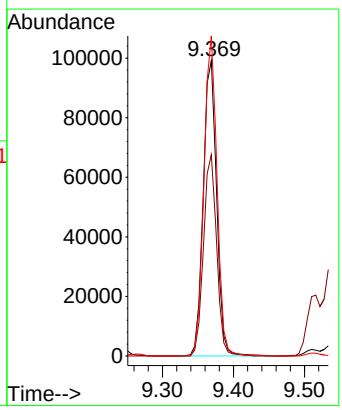


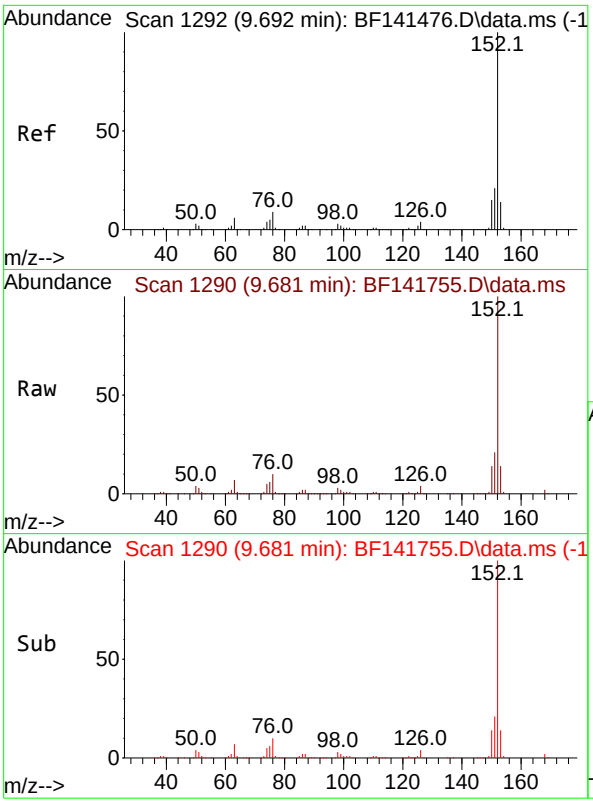


#48
2-Nitroaniline
Concen: 37.587 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 65 Resp: 130023

Ion	Ratio	Lower	Upper
65	100		
92	68.2	52.2	78.2
138	108.4	79.5	119.3



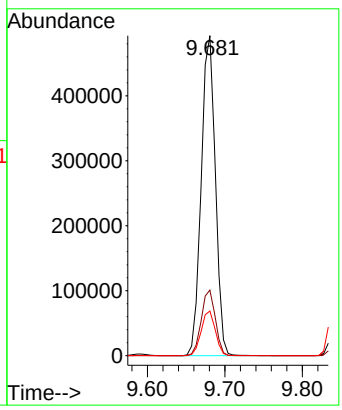


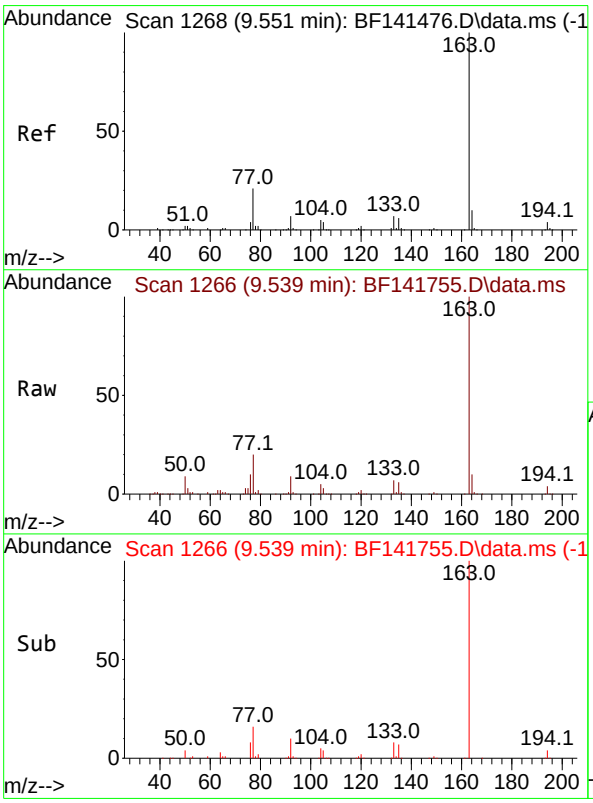
#49
Acenaphthylene
Concen: 40.722 ng
RT: 9.681 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 624325

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.4	24.6
153	13.9	10.9	16.3

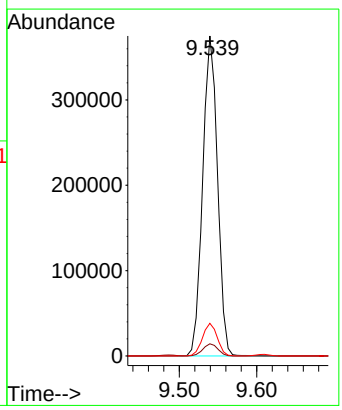


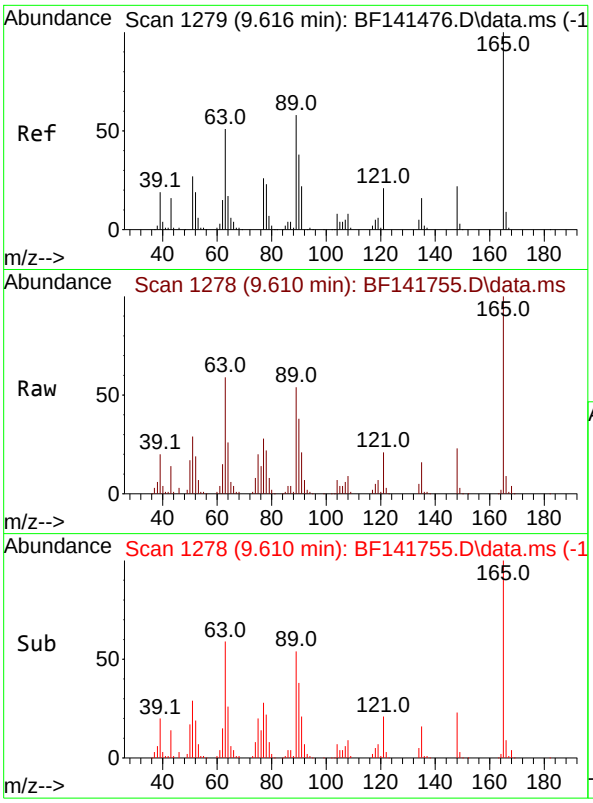


#50
Dimethylphthalate
Concen: 40.768 ng
RT: 9.539 min Scan# 1266
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:163 Resp: 497613

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.2	7.9	11.9



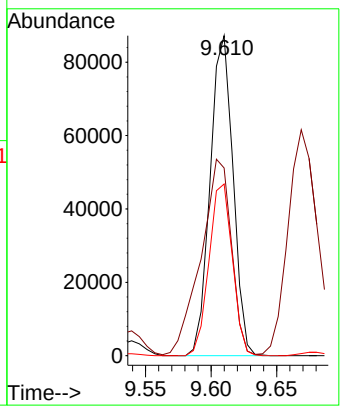


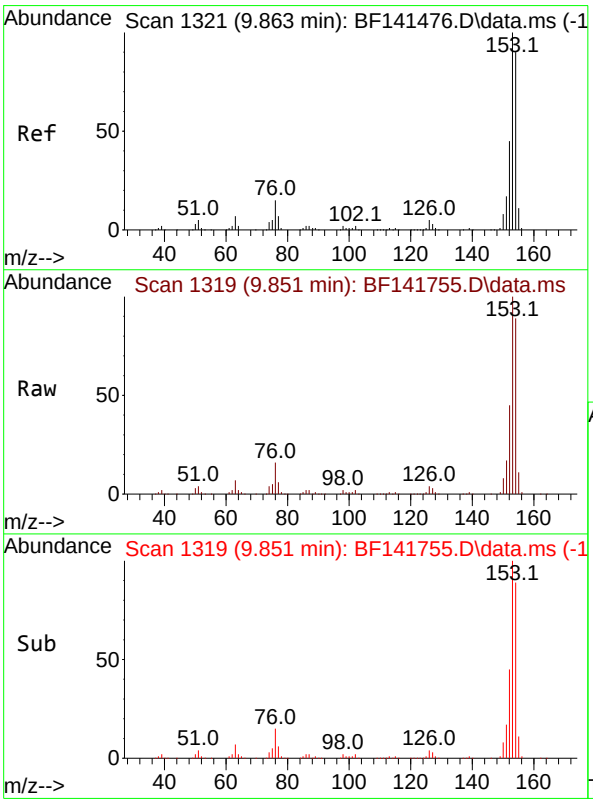
#51
2,6-Dinitrotoluene
Concen: 39.655 ng
RT: 9.610 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 105812

Ion	Ratio	Lower	Upper
165	100		
63	58.7	49.4	74.0
89	53.6	46.5	69.7

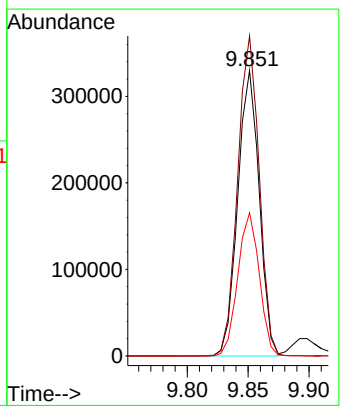


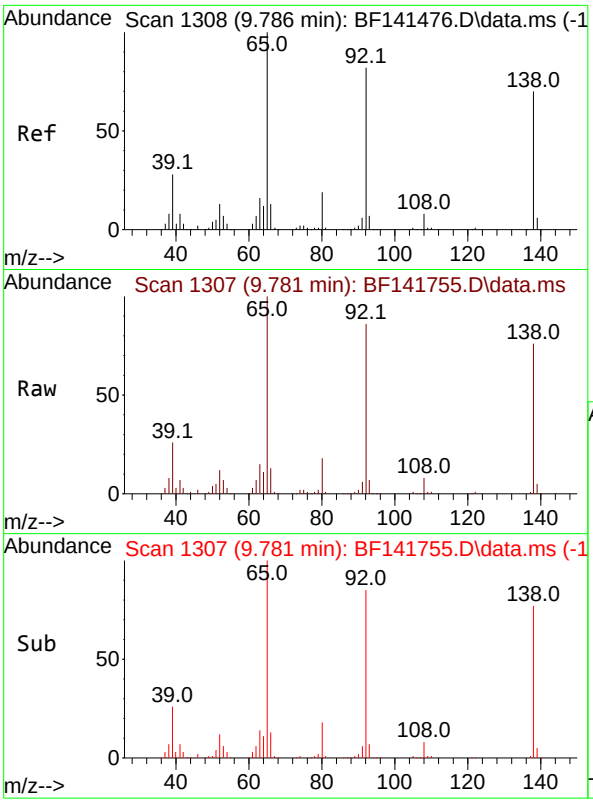


#52
Acenaphthene
Concen: 39.327 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:154 Resp: 405354

Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.2	133.8
152	50.2	39.8	59.8



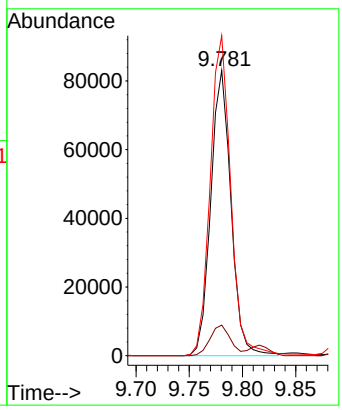


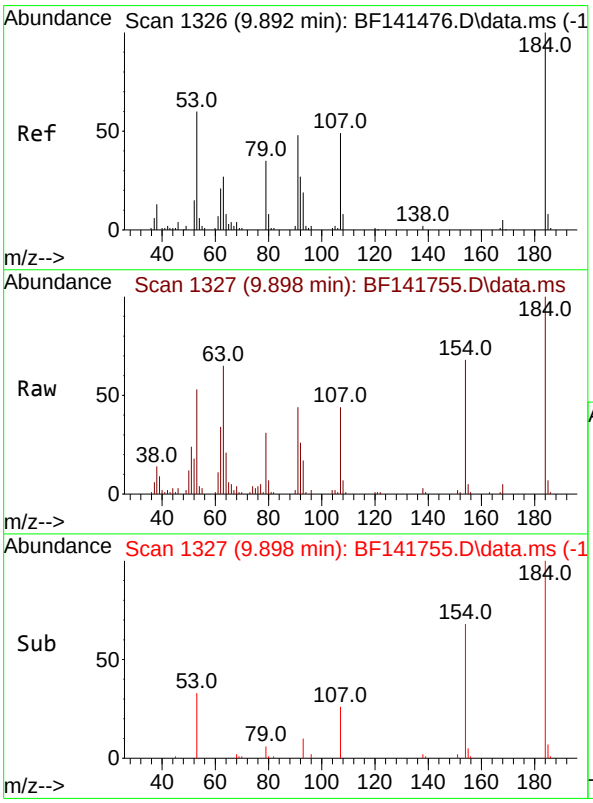
#53
3-Nitroaniline
Concen: 38.195 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 109691

Ion	Ratio	Lower	Upper
138	100		
108	10.7	9.0	13.4
92	112.2	93.7	140.5

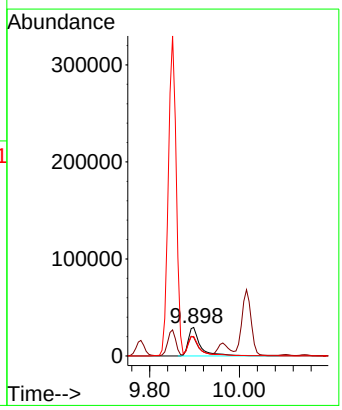


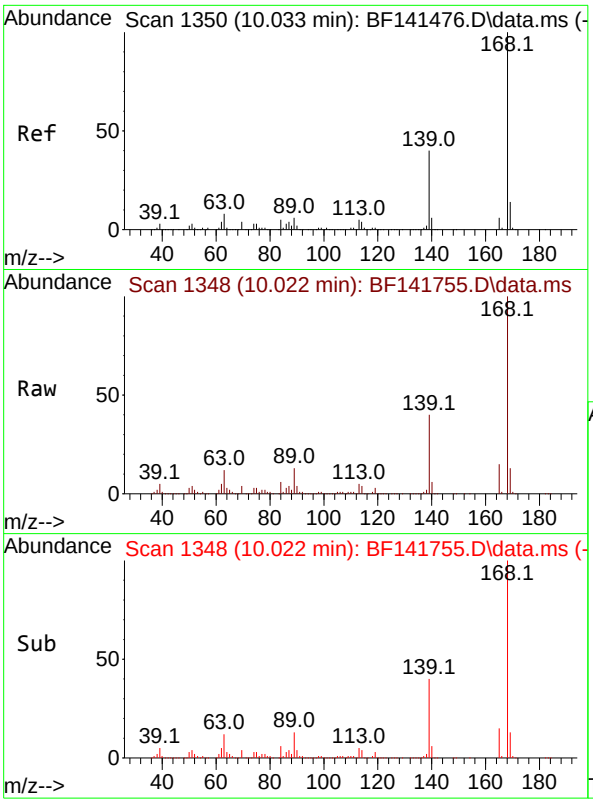


#54
2,4-Dinitrophenol
Concen: 35.138 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:184 Resp: 55724

Ion	Ratio	Lower	Upper
184	100		
63	65.0	61.0	91.6
154	68.5	59.9	89.9



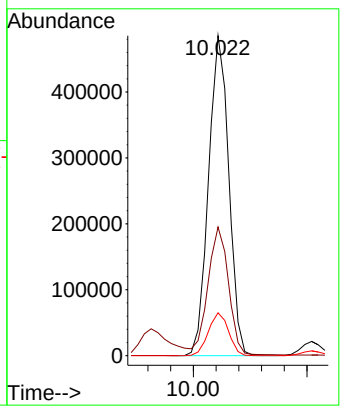


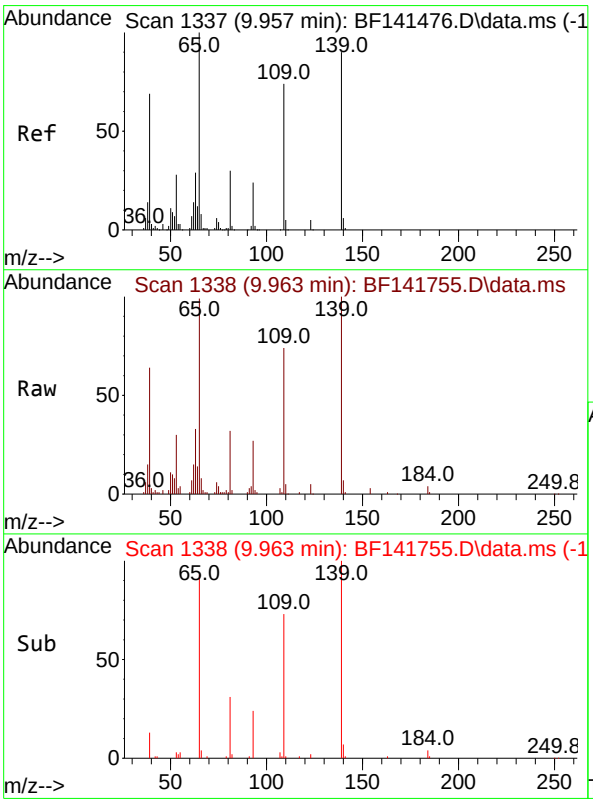
#55
Dibenzofuran
Concen: 39.732 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 601113

Ion	Ratio	Lower	Upper
168	100		
139	40.2	32.7	49.1
169	13.4	10.8	16.2

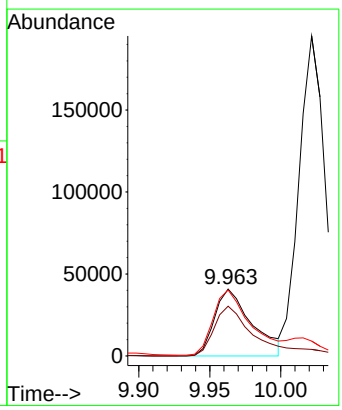


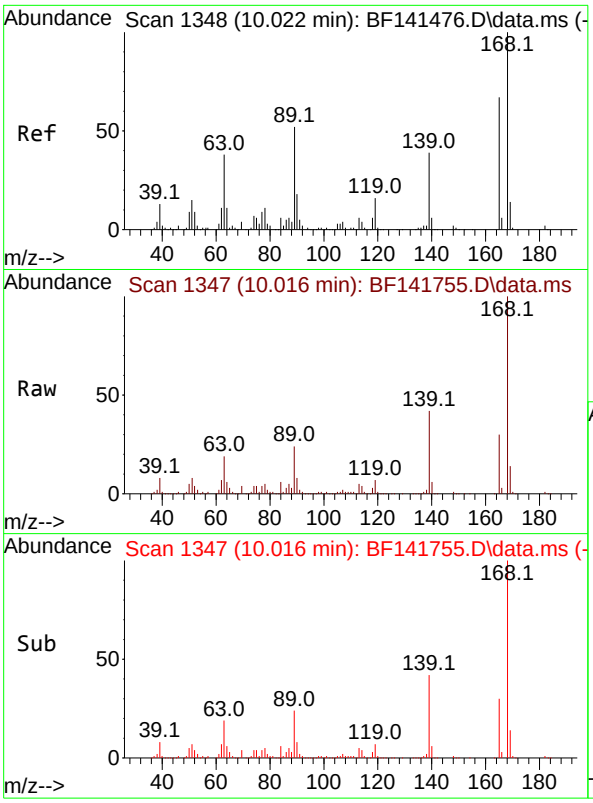


#56
4-Nitrophenol
Concen: 34.873 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:139 Resp: 74346

Ion	Ratio	Lower	Upper
139	100		
109	74.3	62.0	102.0
65	98.6	91.2	131.2



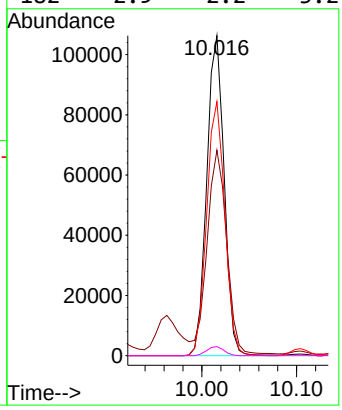


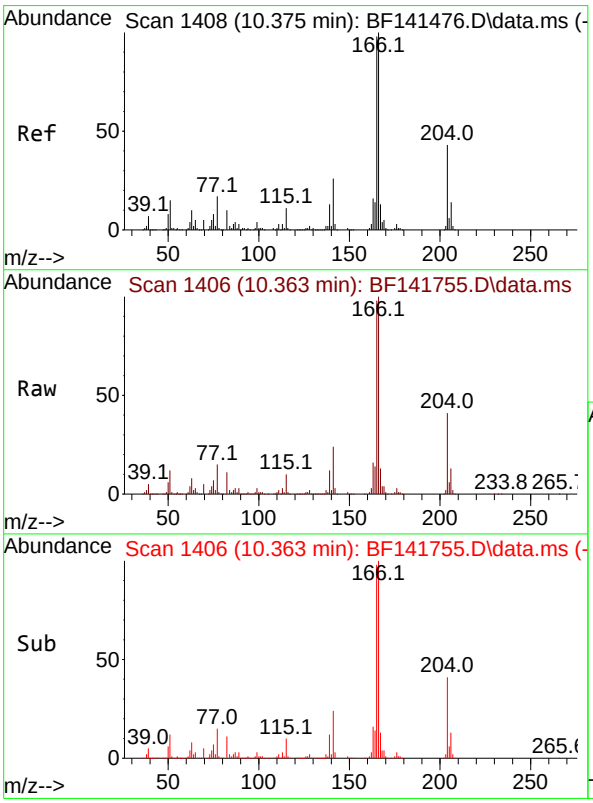
#57
2,4-Dinitrotoluene
Concen: 38.111 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 135376

Ion	Ratio	Lower	Upper
165	100		
63	64.2	46.4	69.6
89	79.4	61.8	92.6
182	2.9	2.2	3.2

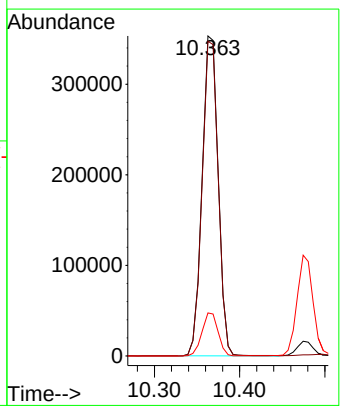


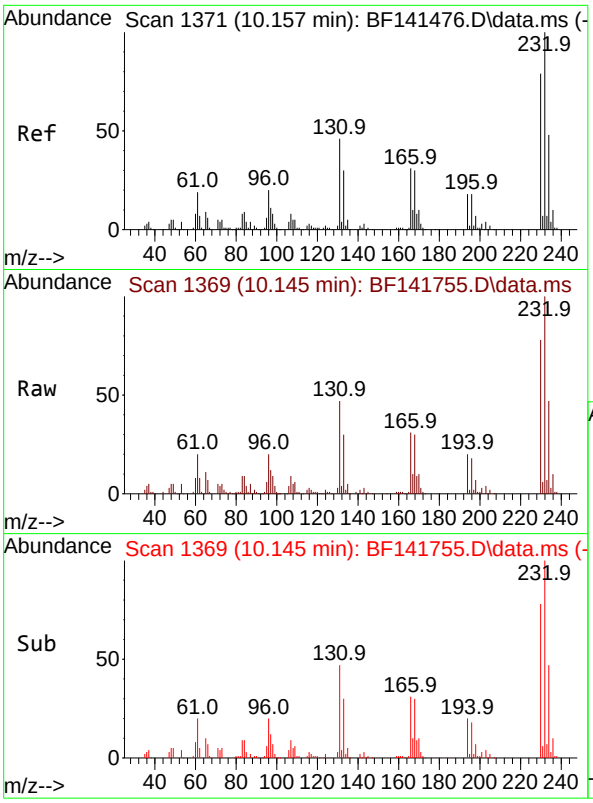


#58
Fluorene
Concen: 39.572 ng
RT: 10.363 min Scan# 1406
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:166 Resp: 462911

Ion	Ratio	Lower	Upper
166	100		
165	98.4	78.2	117.2
167	13.5	10.7	16.1



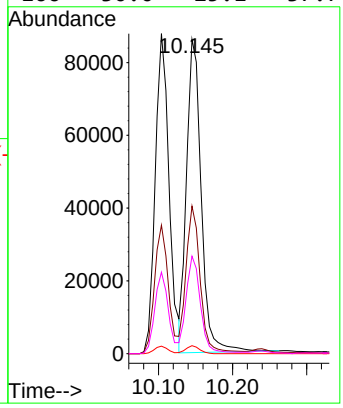


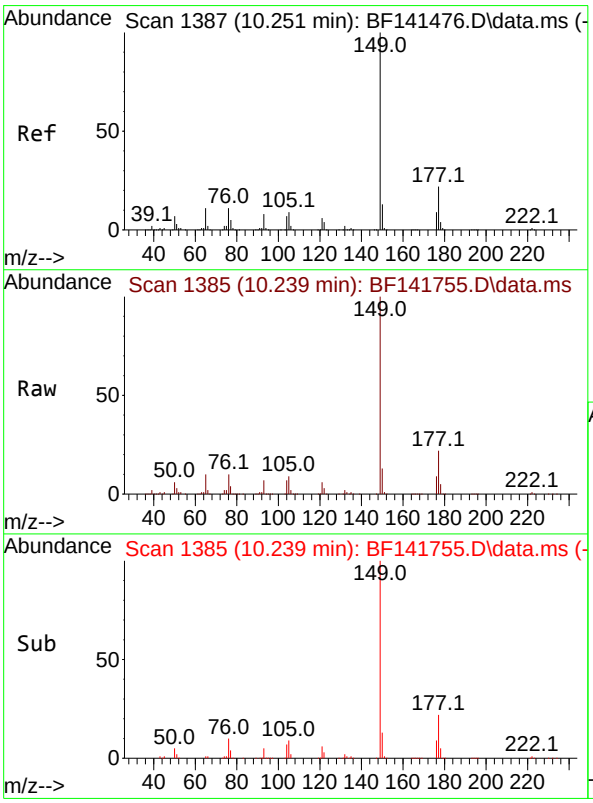
#59
2,3,4,6-Tetrachlorophenol
Concen: 37.977 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 119131

Ion	Ratio	Lower	Upper
232	100		
131	45.4	39.2	58.8
130	2.4	2.1	3.1
166	30.0	25.1	37.7

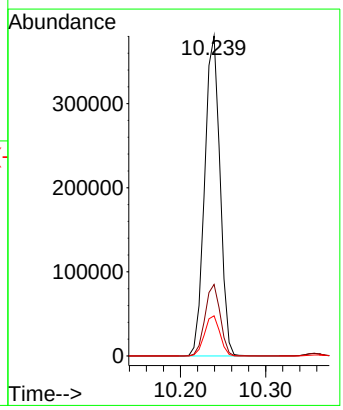


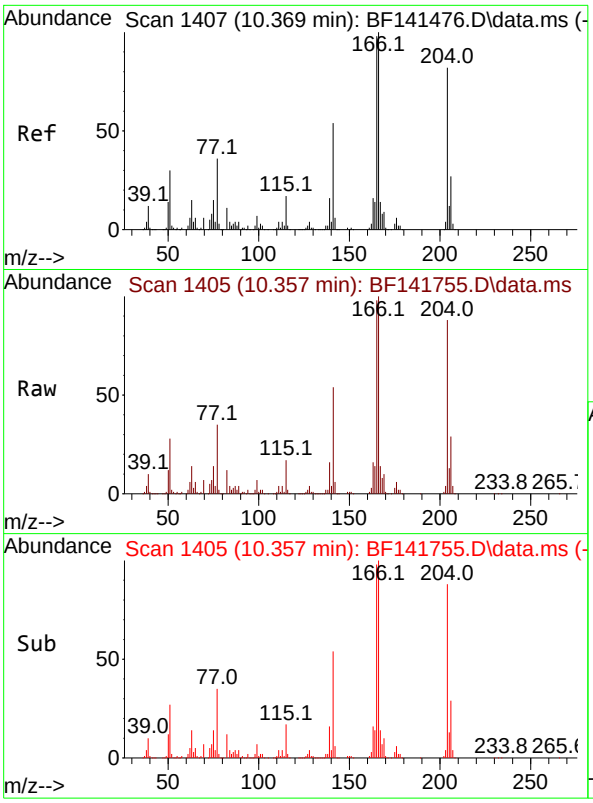


#60
Diethylphthalate
Concen: 39.619 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:149 Resp: 475797

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.8	26.6
150	12.6	10.1	15.1



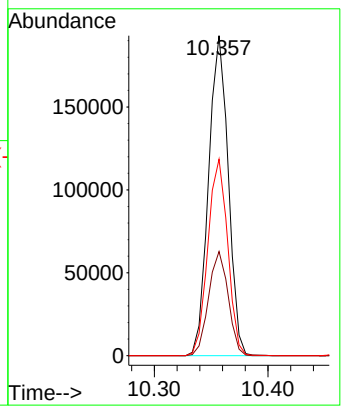


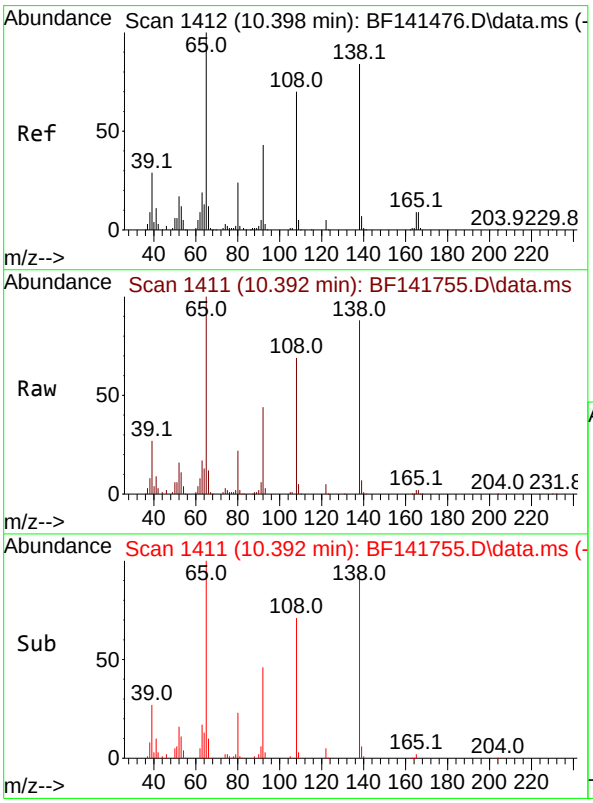
#61
4-Chlorophenyl-phenylether
Concen: 41.182 ng
RT: 10.357 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 231758

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.6	40.0
141	61.4	51.9	77.9

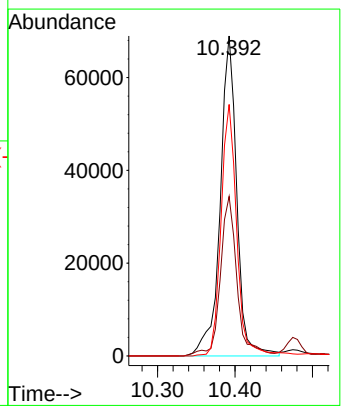


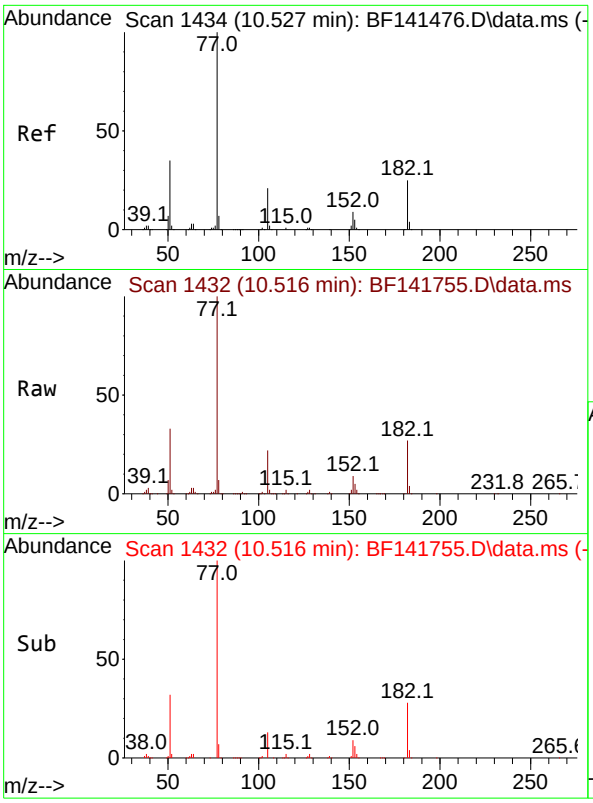


#62
4-Nitroaniline
Concen: 35.243 ng
RT: 10.392 min Scan# 1411
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:138 Resp: 102774

Ion	Ratio	Lower	Upper
138	100		
92	49.8	31.3	71.3
108	78.6	63.7	103.7



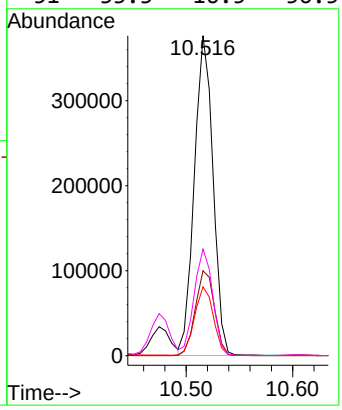


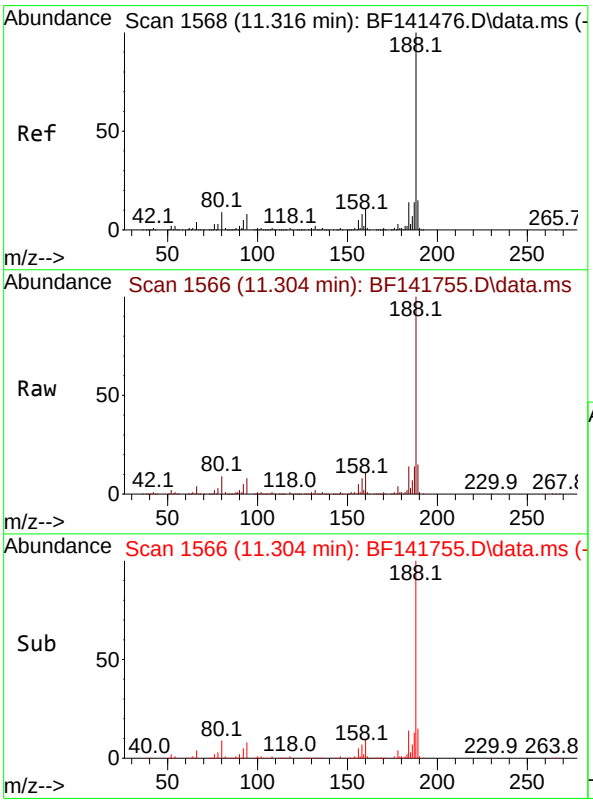
#63
Azobenzene
Concen: 38.507 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 459724

Ion	Ratio	Lower	Upper
77	100		
182	26.5	4.7	44.7
105	21.5	0.4	40.4
51	33.3	16.5	56.5

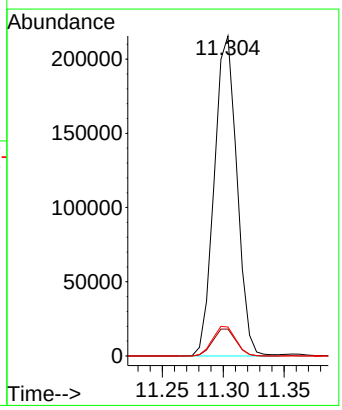


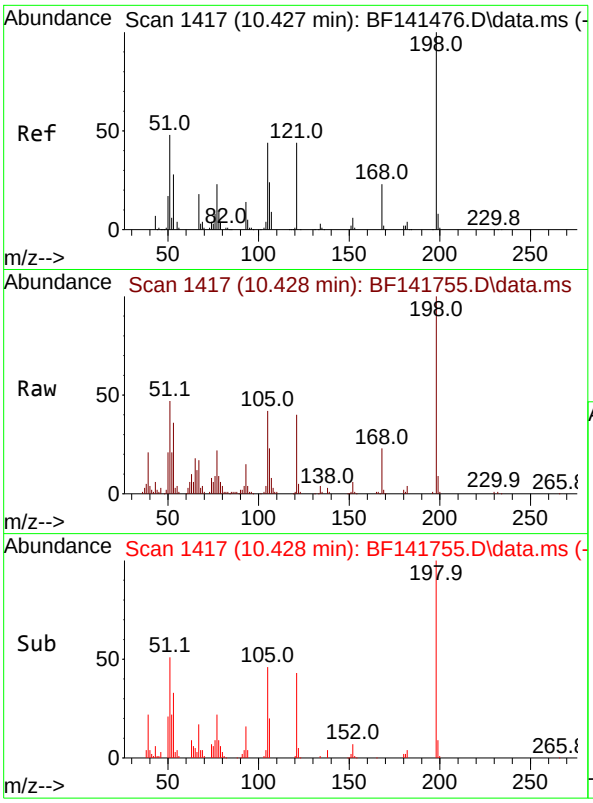


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:188 Resp: 280239

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	9.0	7.3	10.9



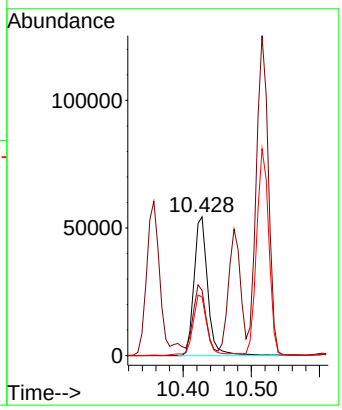


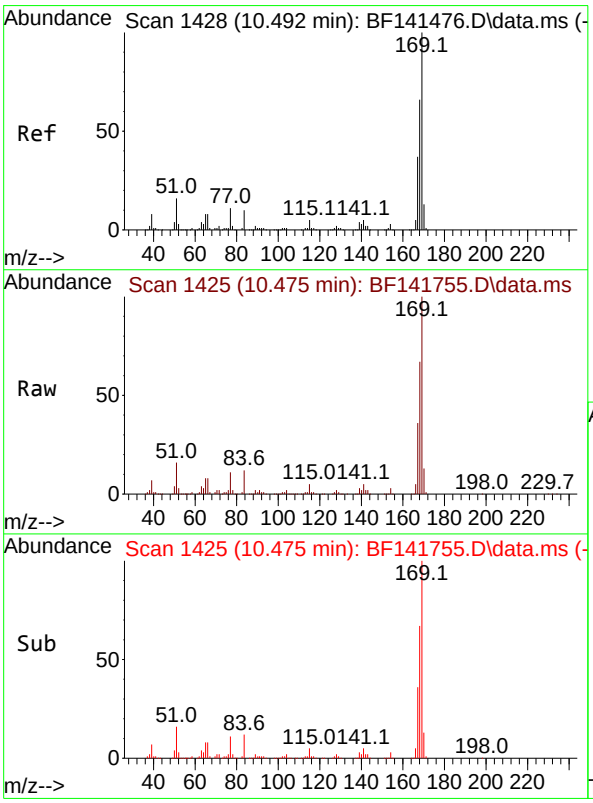
#65
4,6-Dinitro-2-methylphenol
Concen: 39.171 ng
RT: 10.428 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 76253

Ion	Ratio	Lower	Upper
198	100		
51	47.1	37.4	77.4
105	42.3	25.2	65.2

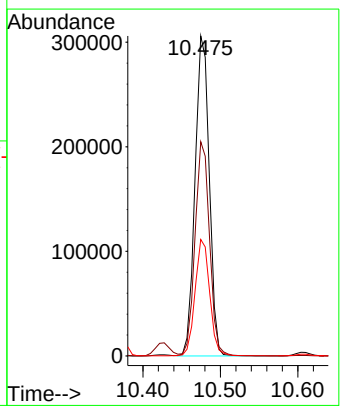


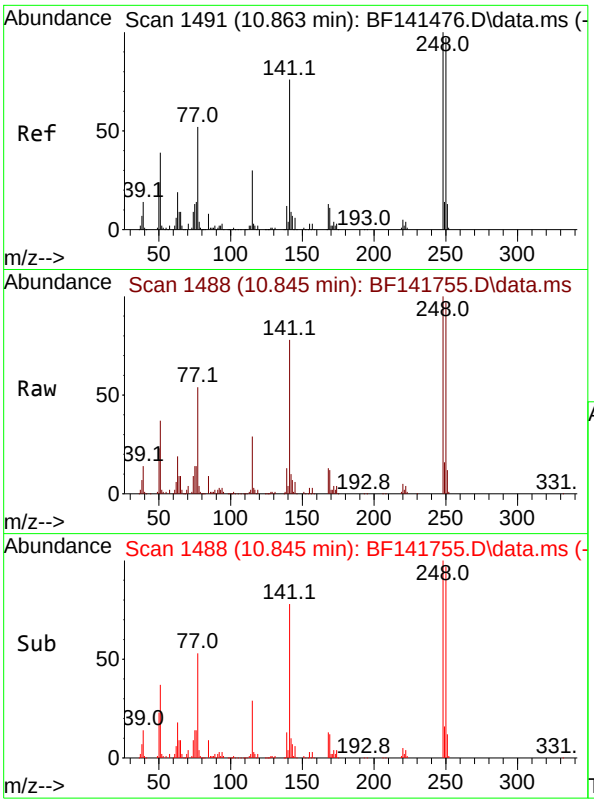


#66
n-Nitrosodiphenylamine
Concen: 43.456 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:169 Resp: 389832

Ion	Ratio	Lower	Upper
169	100		
168	67.0	53.3	79.9
167	36.4	29.4	44.2



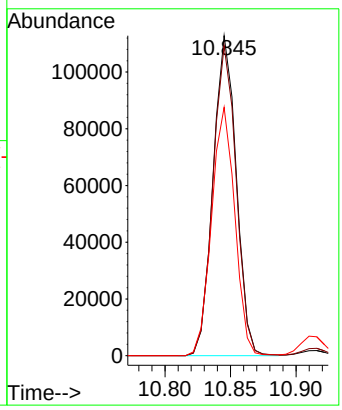


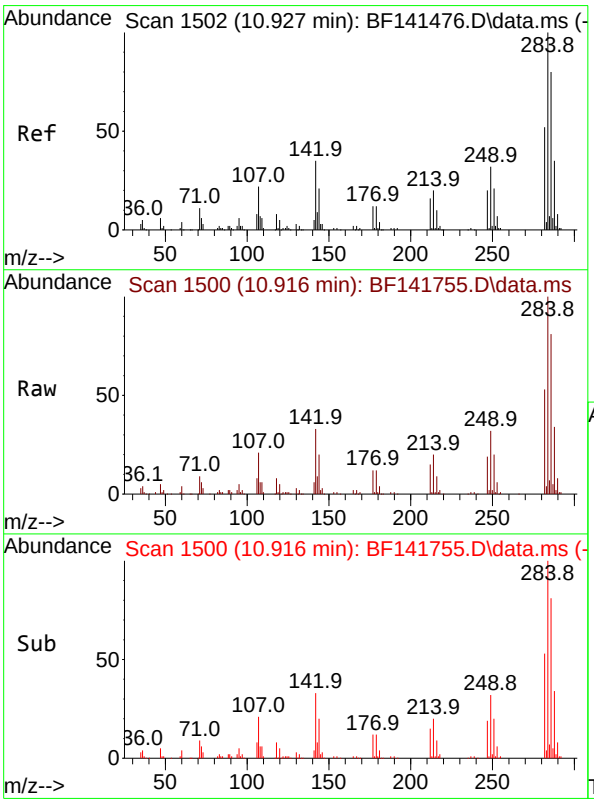
#67
4-Bromophenyl-phenylether
Concen: 44.246 ng
RT: 10.845 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 138581

Ion	Ratio	Lower	Upper
248	100		
250	96.8	77.8	116.6
141	77.6	60.6	90.8

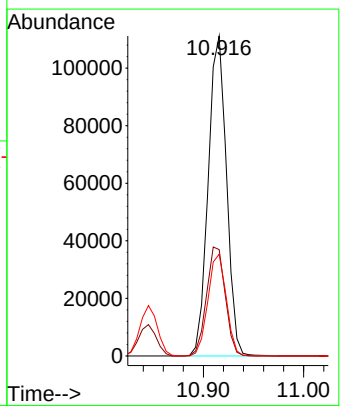


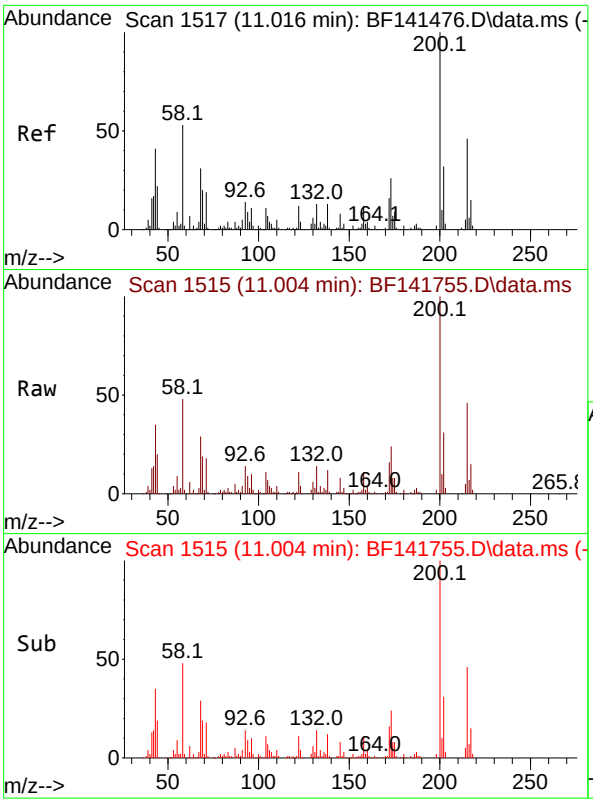


#68
Hexachlorobenzene
Concen: 43.753 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:284 Resp: 141111

Ion	Ratio	Lower	Upper
284	100		
142	33.2	28.0	42.0
249	31.8	25.8	38.8



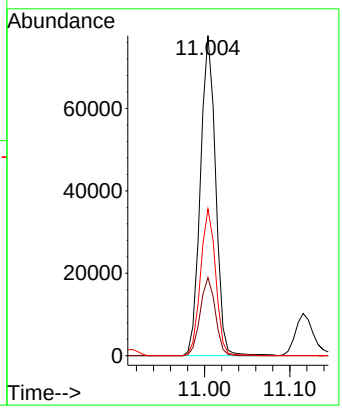


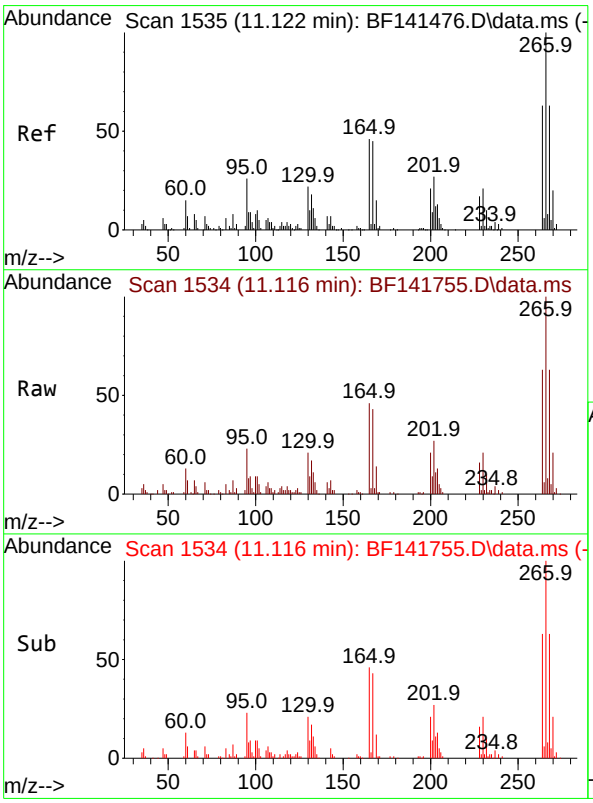
#69
Atrazine
Concen: 35.789 ng
RT: 11.004 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 96315

Ion	Ratio	Lower	Upper
200	100		
173	24.4	5.9	45.9
215	45.8	25.9	65.9

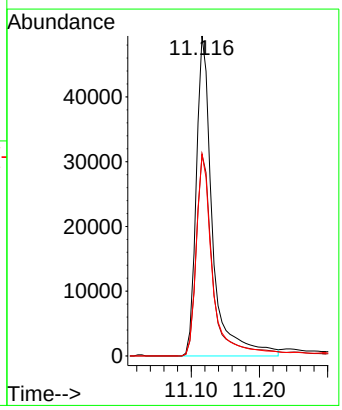


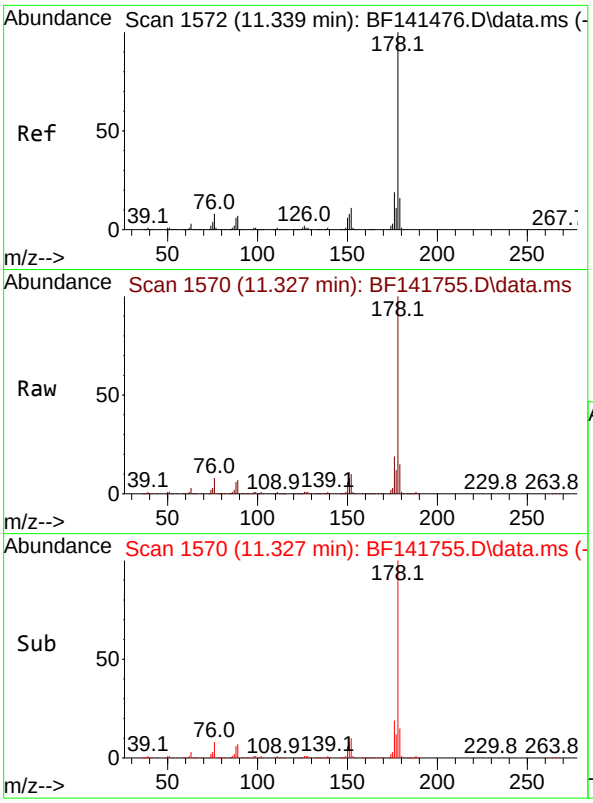


#70
Pentachlorophenol
Concen: 39.625 ng
RT: 11.116 min Scan# 1534
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:266 Resp: 81715

Ion	Ratio	Lower	Upper
266	100		
268	63.0	50.1	75.1
264	62.9	50.1	75.1



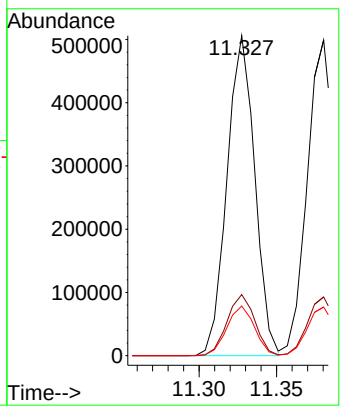


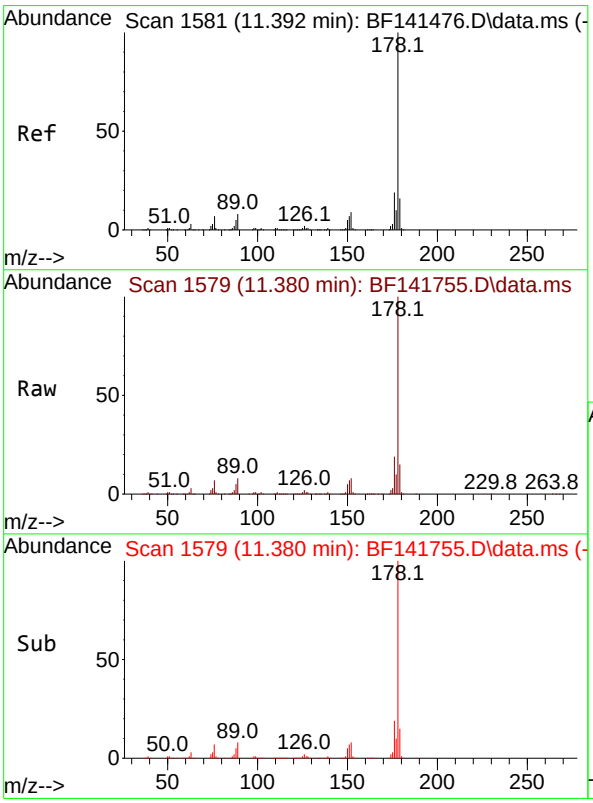
#71
Phenanthrene
Concen: 40.914 ng
RT: 11.327 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 631134

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.5	12.4	18.6

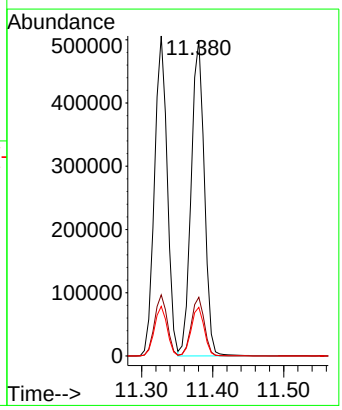


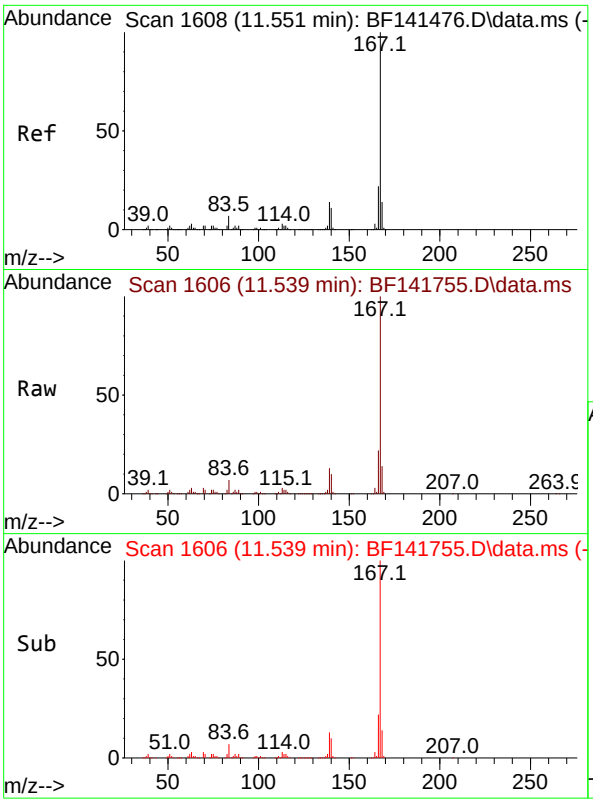


#72
Anthracene
Concen: 41.494 ng
RT: 11.380 min Scan# 1579
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:178 Resp: 643431

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	15.4	12.4	18.6



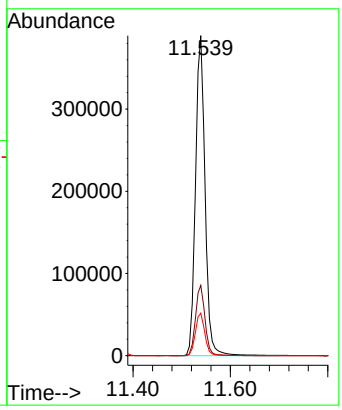


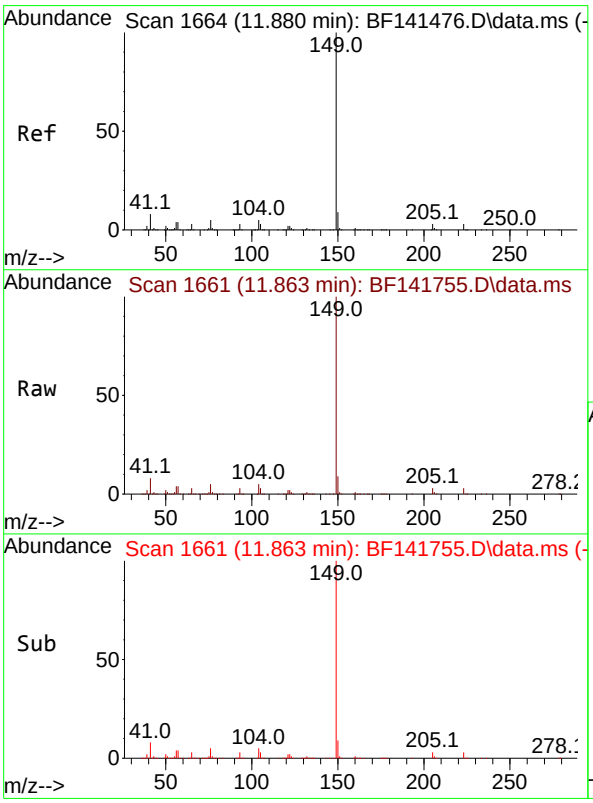
#73
Carbazole
Concen: 38.357 ng
RT: 11.539 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 535192

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.4	26.2
139	13.3	10.9	16.3

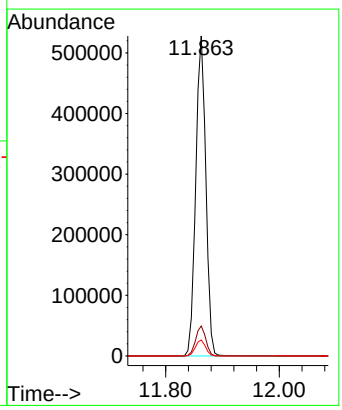


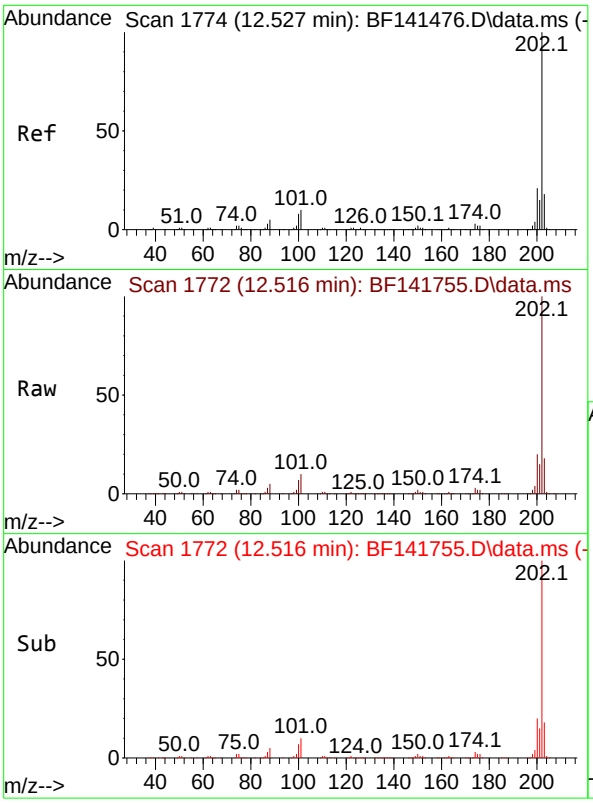


#74
Di-n-butylphthalate
Concen: 40.662 ng
RT: 11.863 min Scan# 1661
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:149 Resp: 655095

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.0
104	5.0	4.2	6.2



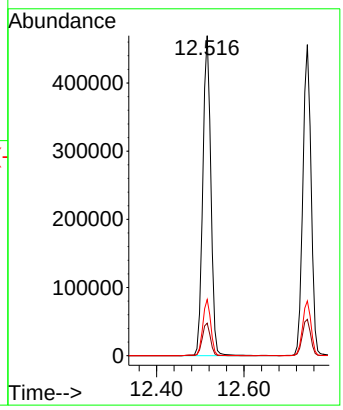


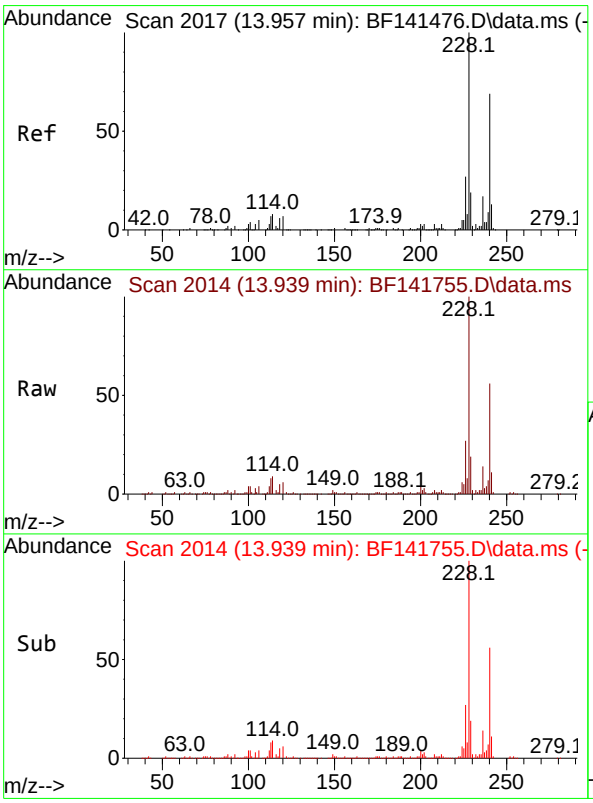
#75
Fluoranthene
Concen: 36.703 ng
RT: 12.516 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 600259

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.5	0.0	37.6

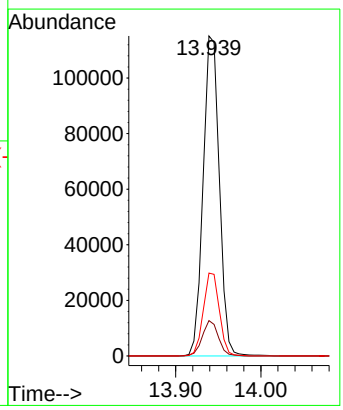


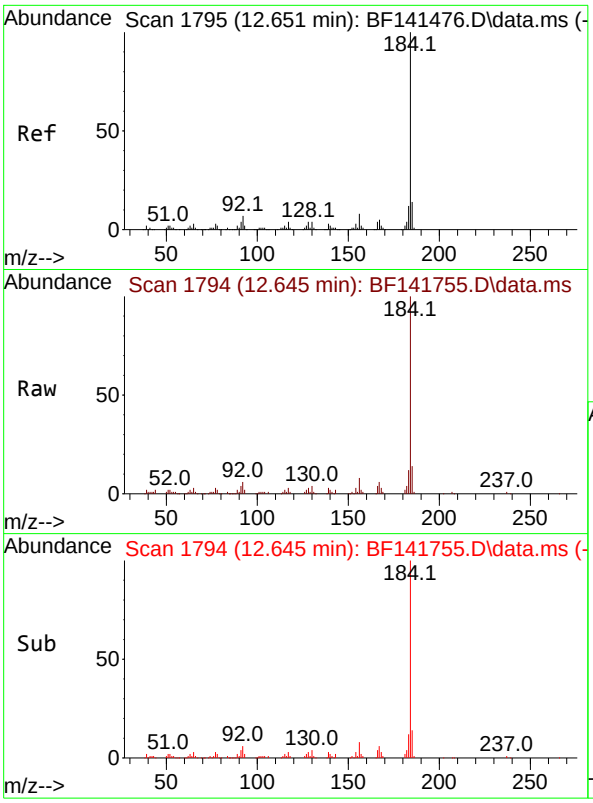


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:240 Resp: 152344

Ion	Ratio	Lower	Upper
240	100		
120	11.0	8.0	12.0
236	25.9	19.8	29.8



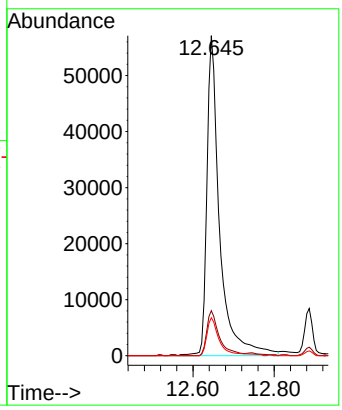


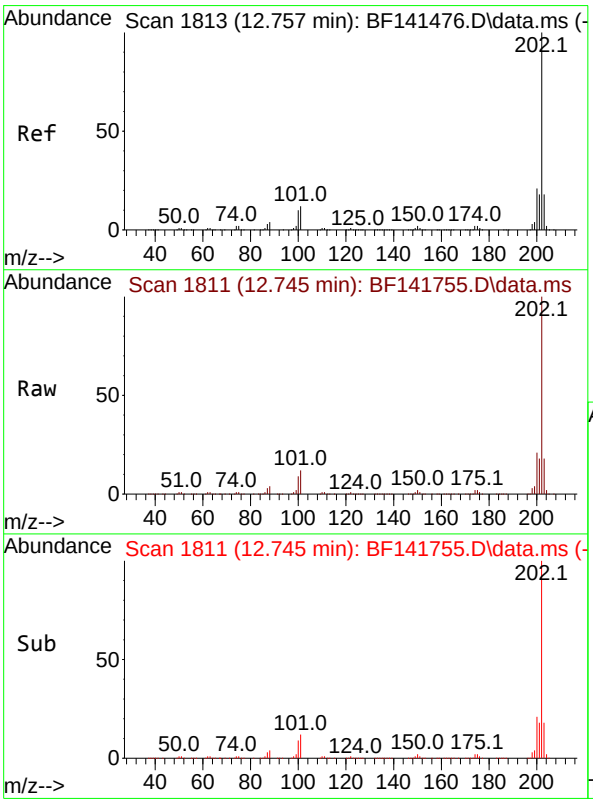
#77
Benzidine
Concen: 36.886 ng
RT: 12.645 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 123930

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.3	16.9
183	11.9	9.3	13.9

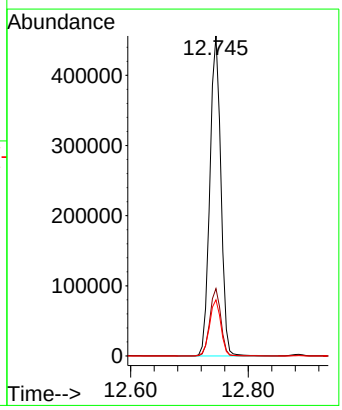


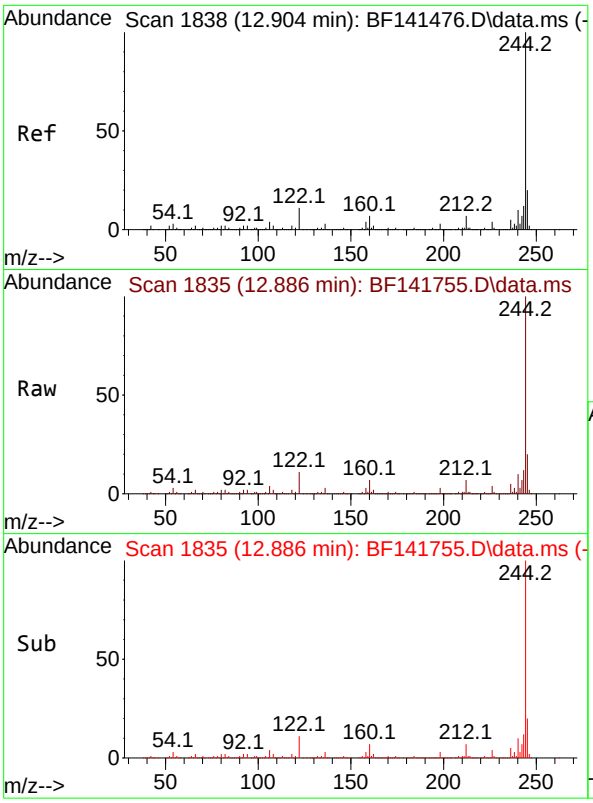


#78
Pyrene
Concen: 45.595 ng
RT: 12.745 min Scan# 1811
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:202 Resp: 591308

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.6	14.3	21.5



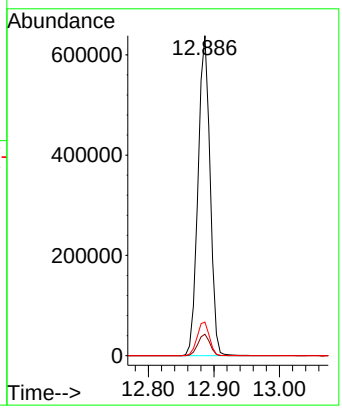


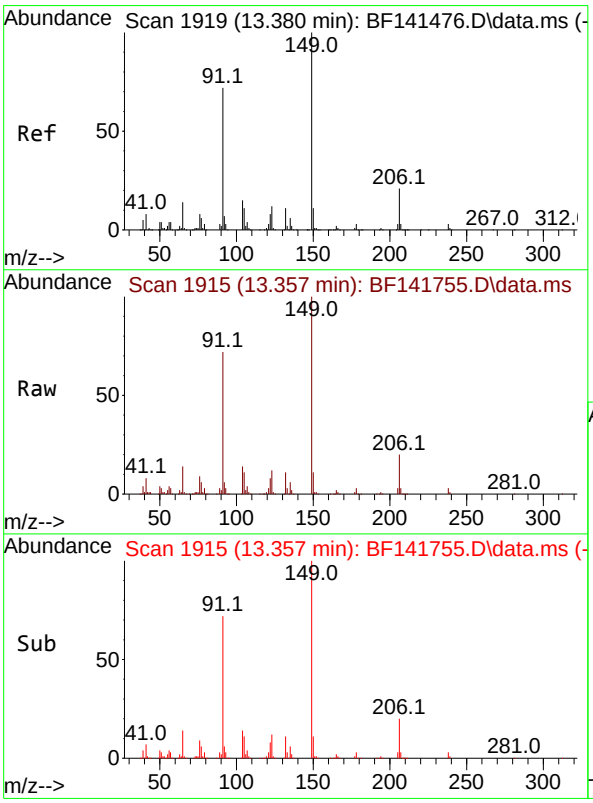
#79
Terphenyl-d14
Concen: 90.576 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 817377

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.5	8.4	12.6

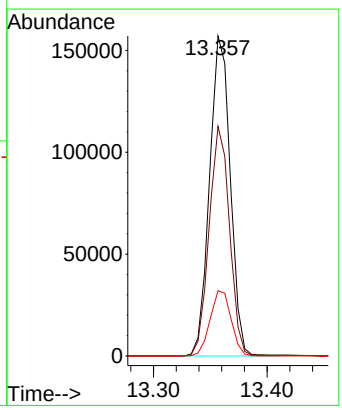


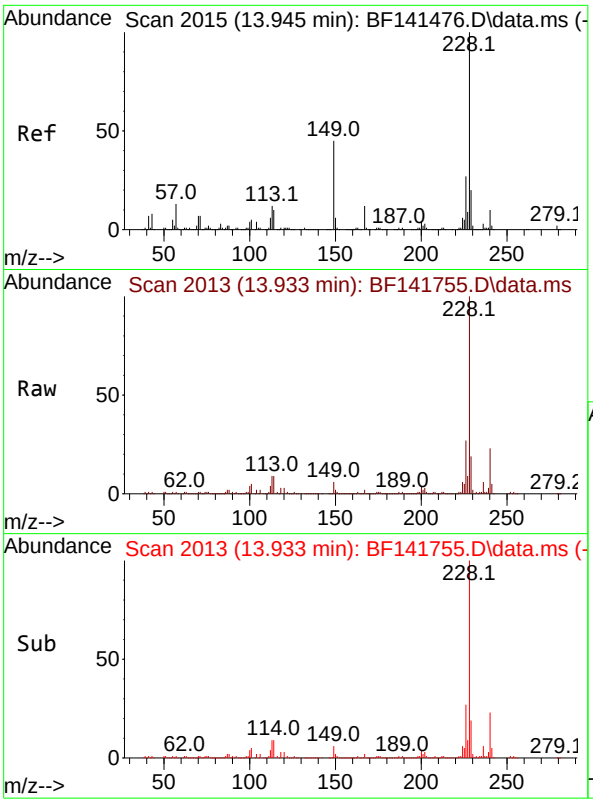


#80
Butylbenzylphthalate
Concen: 44.277 ng
RT: 13.357 min Scan# 1915
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:149 Resp: 198892

Ion	Ratio	Lower	Upper
149	100		
91	71.8	57.8	86.8
206	20.4	16.7	25.1



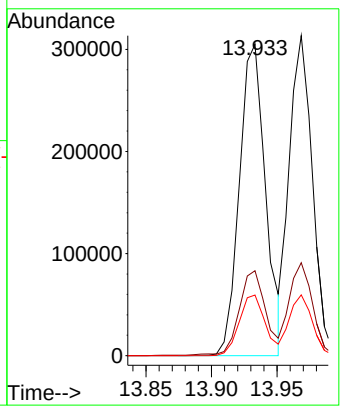


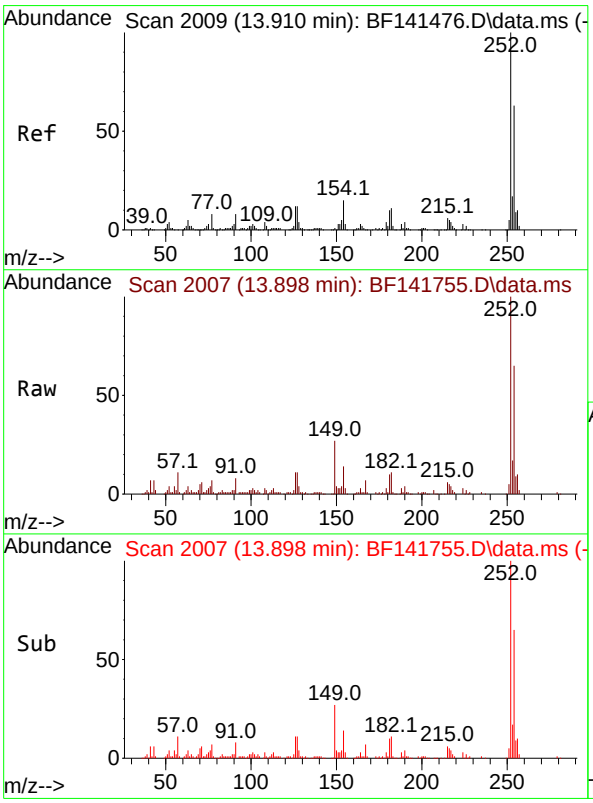
#81
Benzo(a)anthracene
Concen: 41.938 ng
RT: 13.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 424696

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	19.5	15.8	23.6

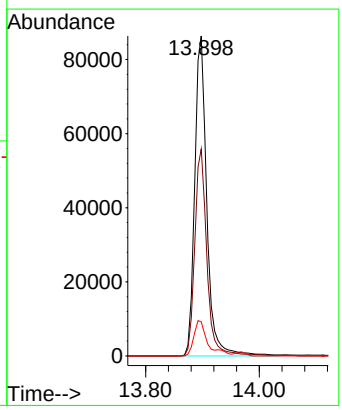


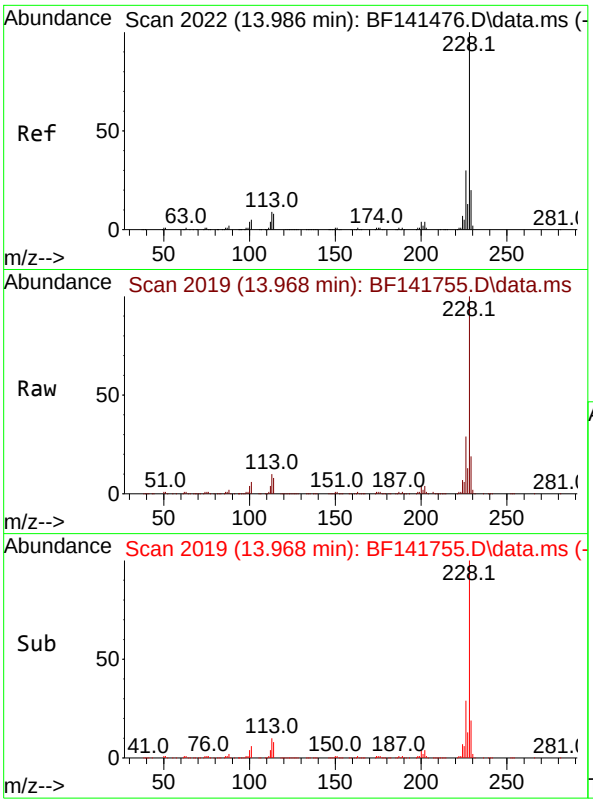


#82
3,3'-Dichlorobenzidine
Concen: 44.271 ng
RT: 13.898 min Scan# 2007
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:252 Resp: 128425

Ion	Ratio	Lower	Upper
252	100		
254	64.7	50.6	76.0
126	10.7	9.3	13.9



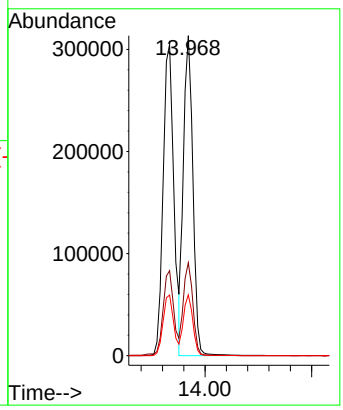


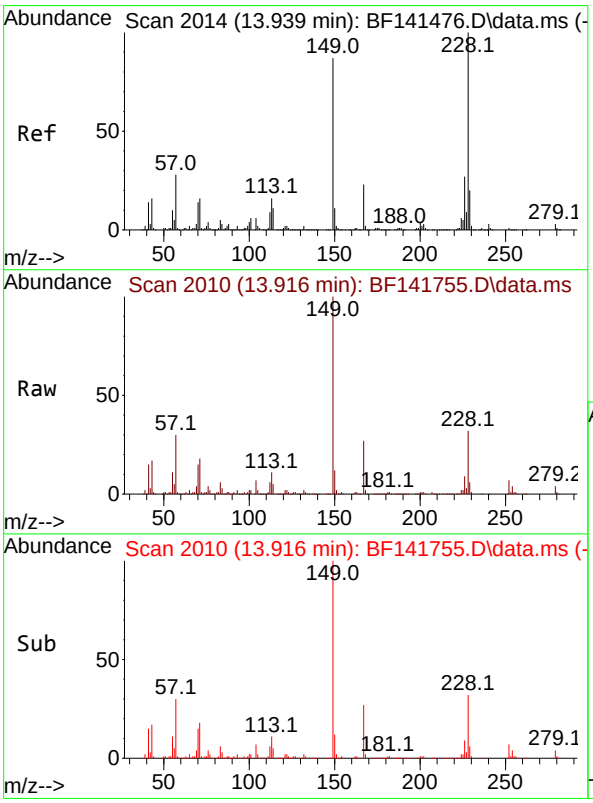
#83
Chrysene
Concen: 41.405 ng
RT: 13.968 min Scan# 2(
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 387162

Ion	Ratio	Lower	Upper
228	100		
226	29.1	24.0	36.0
229	19.0	15.7	23.5

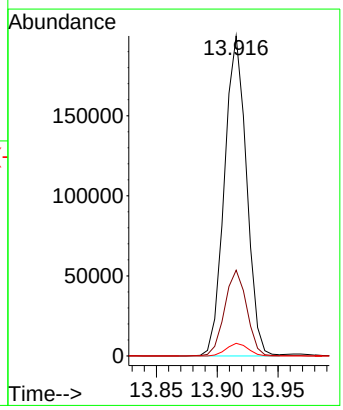


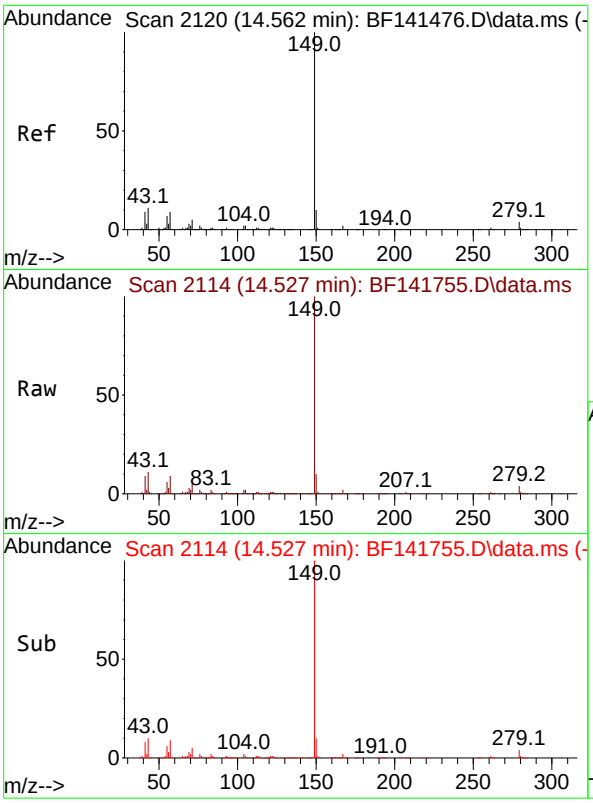


#84
Bis(2-ethylhexyl)phthalate
Concen: 49.688 ng
RT: 13.916 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:149 Resp: 251728

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.4	32.0
279	3.9	3.1	4.7



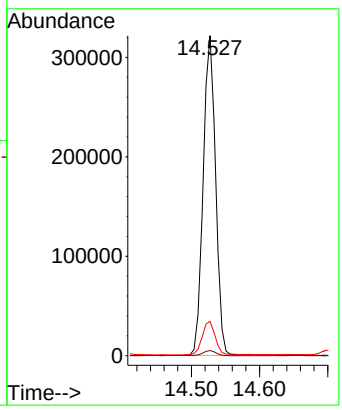


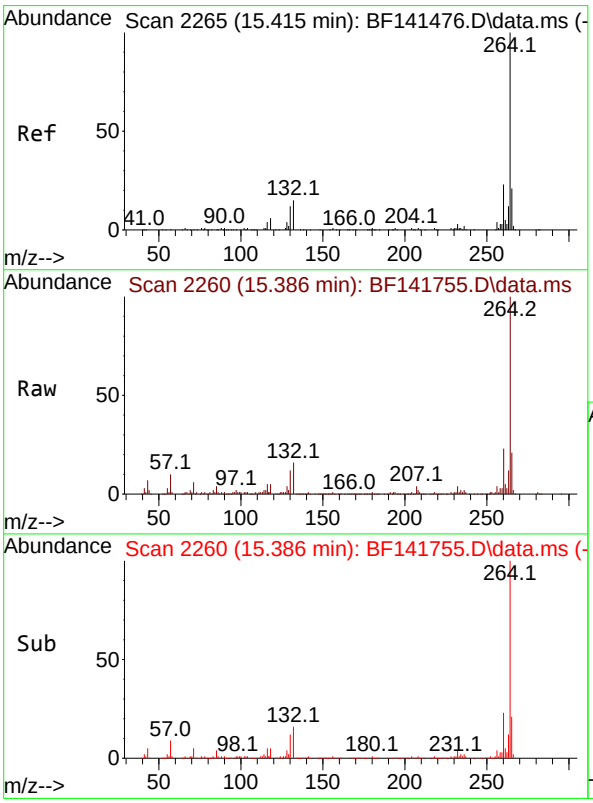
#85
Di-n-octyl phthalate
Concen: 56.543 ng
RT: 14.527 min Scan# 21
Delta R.T. -0.035 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 408656

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	11.0	9.5	14.3

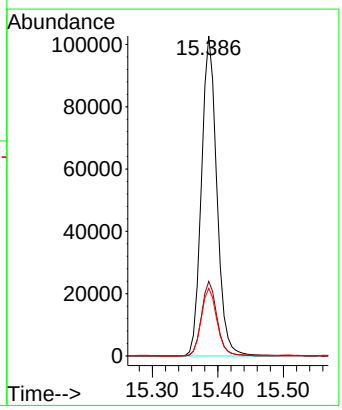


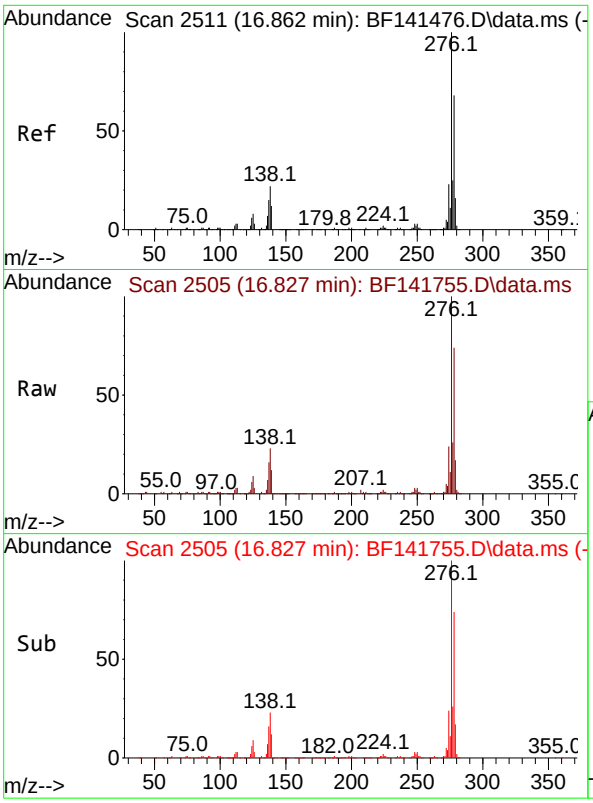


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:264 Resp: 167961

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.1	17.0	25.4



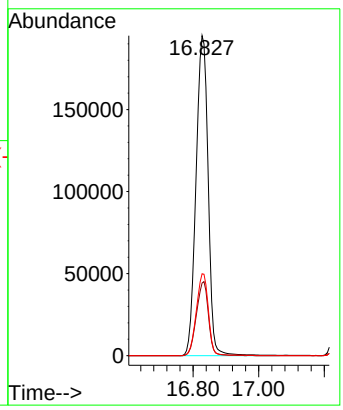


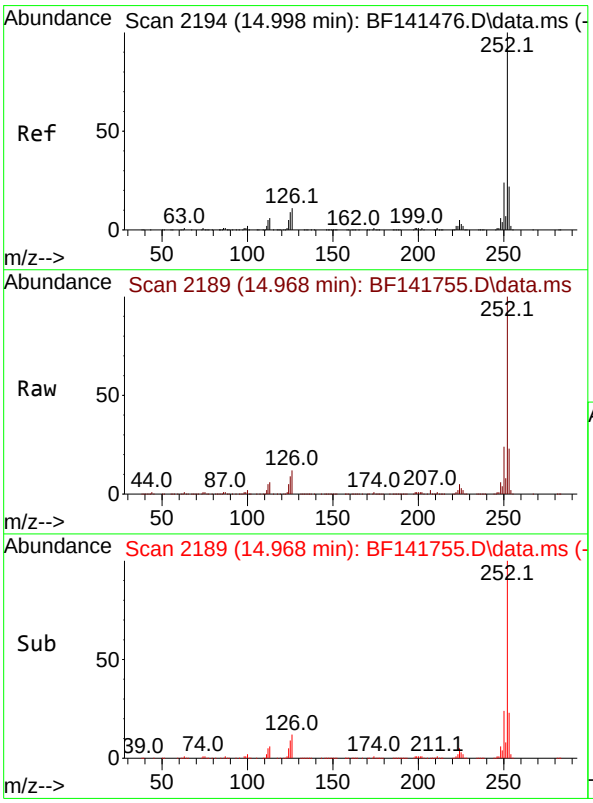
#87
Indeno(1,2,3-cd)pyrene
Concen: 48.386 ng
RT: 16.827 min Scan# 2
Delta R.T. -0.047 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 502156

Ion	Ratio	Lower	Upper
276	100		
138	22.9	18.0	27.0
277	25.3	20.4	30.6

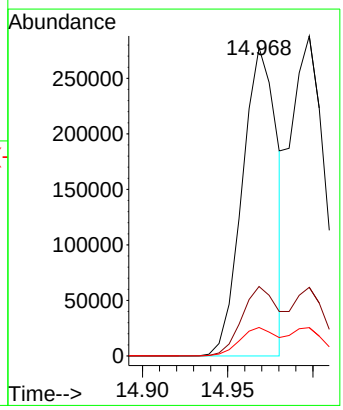


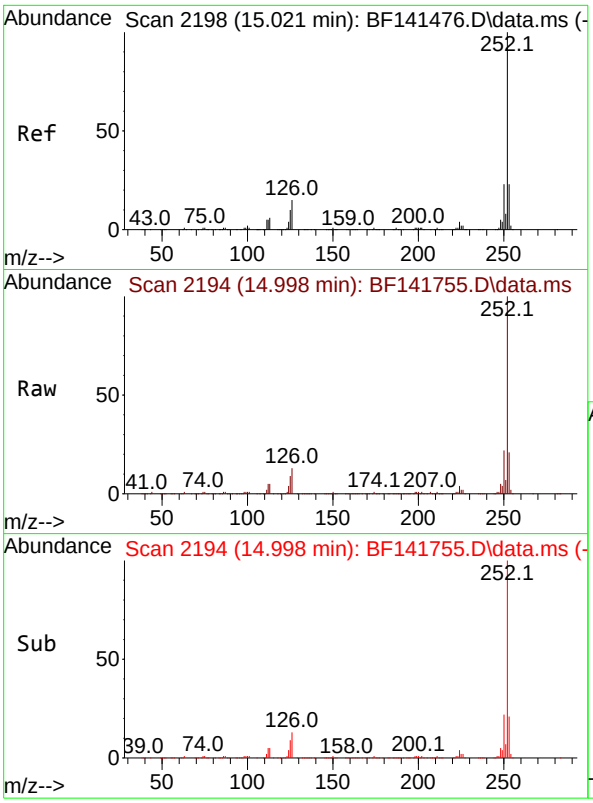


#88
Benzo(b)fluoranthene
Concen: 34.885 ng
RT: 14.968 min Scan# 2189
Delta R.T. -0.035 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:252 Resp: 393427

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	9.2	7.0	10.6



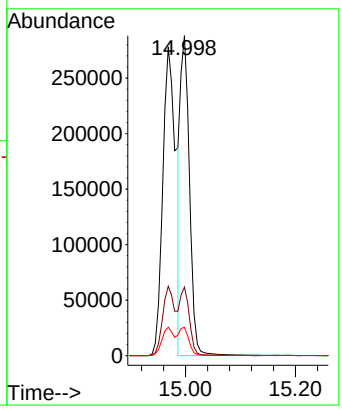


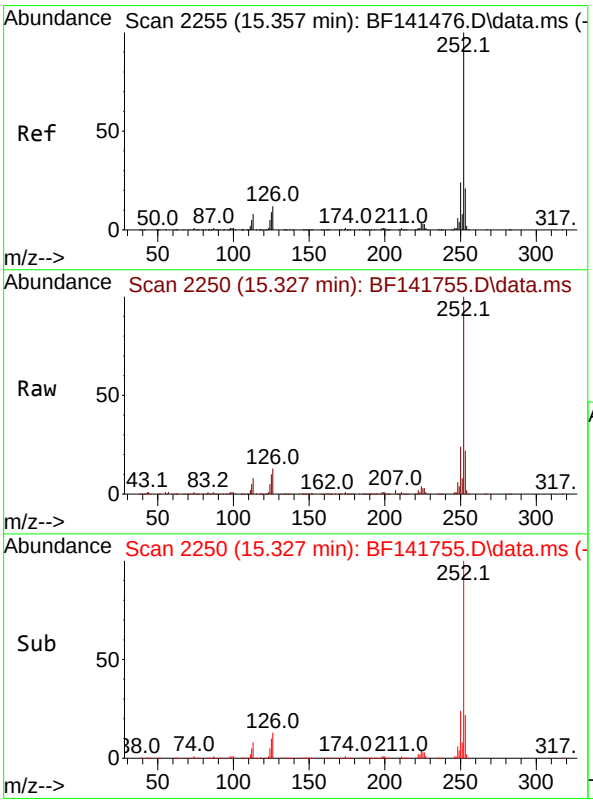
#89
Benzo(k)fluoranthene
Concen: 34.682 ng
RT: 14.998 min Scan# 21
Delta R.T. -0.035 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 333990

Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.0	27.0
125	8.8	7.4	11.0

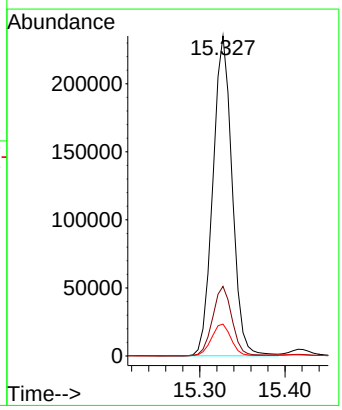


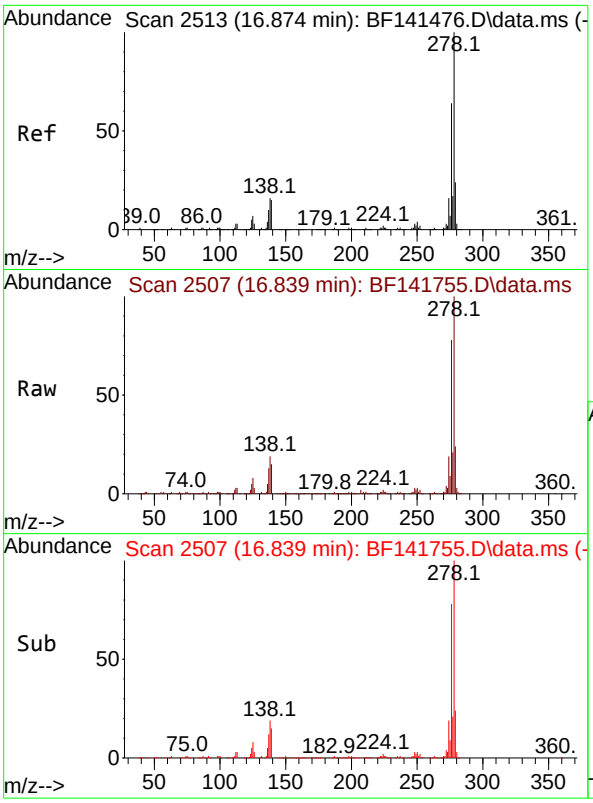


#90
Benzo(a)pyrene
Concen: 40.454 ng
RT: 15.327 min Scan# 2250
Delta R.T. -0.035 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:252 Resp: 369170

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	10.0	7.4	11.2



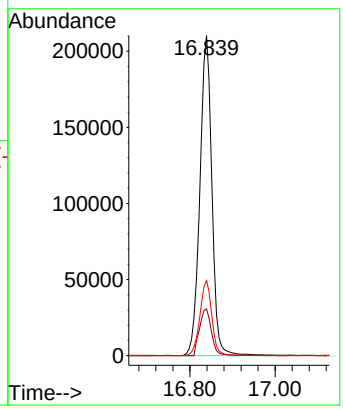


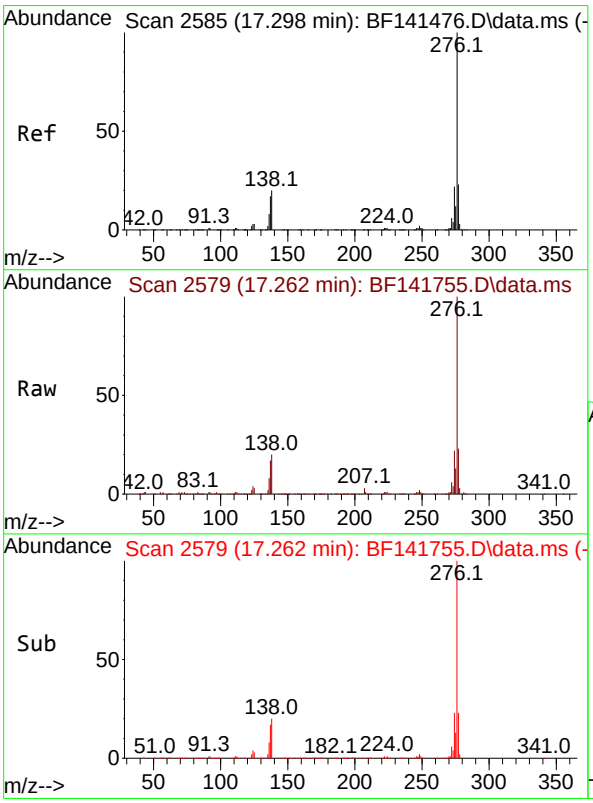
#91
Dibenzo(a,h)anthracene
Concen: 49.009 ng
RT: 16.839 min Scan# 2
Delta R.T. -0.053 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 412131

Ion	Ratio	Lower	Upper
278	100		
139	14.6	11.8	17.6
279	23.5	19.1	28.7

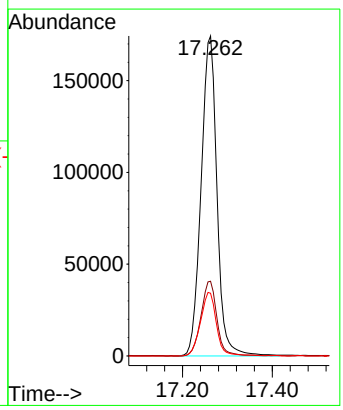




#92
Benzo(g,h,i)perylene
Concen: 48.600 ng
RT: 17.262 min Scan# 2579
Delta R.T. -0.053 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:276 Resp: 427677

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	19.6	15.9	23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141755.D
Acq On : 25 Feb 2025 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 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	94	-0.01
2		1,4-Dioxane	0.513	0.521	-1.6	95	-0.02
3		Pyridine	1.222	1.297	-6.1	97	-0.03
4		n-Nitrosodimethylamine	0.809	0.734	9.3	84	-0.04
5	S	2-Fluorophenol	1.276	1.379	-8.1	101	0.00
6		Aniline	1.513	1.532	-1.3	94	-0.02
7	S	Phenol-d6	1.612	1.672	-3.7	98	-0.01
8		2-Chlorophenol	1.378	1.463	-6.2	100	-0.01
9		Benzaldehyde	0.857	0.938	-9.5	108	0.00
10	C	Phenol	1.678	1.745	-4.0	97	-0.01
11		bis(2-Chloroethyl)ether	1.261	1.311	-4.0	97	-0.01
12		1,3-Dichlorobenzene	1.455	1.570	-7.9	103	-0.01
13	C	1,4-Dichlorobenzene	1.487	1.589	-6.9	102	-0.01
14		1,2-Dichlorobenzene	1.380	1.491	-8.0	102	-0.01
15		Benzyl Alcohol	1.236	1.227	0.7	92	0.00
16		2,2'-oxybis(1-Chloropropane	2.158	2.073	3.9	90	-0.01
17		2-Methylphenol	1.079	1.115	-3.3	97	0.00
18		Hexachloroethane	0.550	0.581	-5.6	99	-0.01
19	P	n-Nitroso-di-n-propylamine	0.964	0.992	-2.9	96	-0.02
20		3+4-Methylphenols	1.371	1.442	-5.2	99	-0.01
21	I	Naphthalene-d8	1.000	1.000	0.0	95	-0.01
22		Acetophenone	0.498	0.506	-1.6	97	-0.02
23	S	Nitrobenzene-d5	0.383	0.384	-0.3	95	-0.01
24		Nitrobenzene	0.374	0.377	-0.8	96	-0.01
25		Isophorone	0.611	0.618	-1.1	96	-0.02
26	C	2-Nitrophenol	0.186	0.199	-7.0	98	0.00
27		2,4-Dimethylphenol	0.217	0.228	-5.1	97	0.00
28		bis(2-Chloroethoxy)methane	0.392	0.410	-4.6	99	-0.01
29	C	2,4-Dichlorophenol	0.294	0.307	-4.4	98	0.00
30		1,2,4-Trichlorobenzene	0.320	0.334	-4.4	100	-0.01
31		Naphthalene	1.041	1.073	-3.1	98	-0.01
32		Benzoic acid	0.226	0.181	19.9	75	-0.03
33		4-Chloroaniline	0.363	0.379	-4.4	99	-0.02
34	C	Hexachlorobutadiene	0.192	0.201	-4.7	99	-0.01
35		Caprolactam	0.089	0.086	3.4	88	-0.03
36	C	4-Chloro-3-methylphenol	0.325	0.325	0.0	94	-0.01
37		2-Methylnaphthalene	0.677	0.700	-3.4	99	-0.01
38		1-Methylnaphthalene	0.656	0.662	-0.9	96	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	93	-0.02
40		1,2,4,5-Tetrachlorobenzene	0.579	0.620	-7.1	99	0.00
41	P	Hexachlorocyclopentadiene	0.192	0.198	-3.1	91	-0.01
42	S	2,4,6-Tribromophenol	0.201	0.191	5.0	89	-0.02
43	C	2,4,6-Trichlorophenol	0.374	0.383	-2.4	94	0.00
44		2,4,5-Trichlorophenol	0.405	0.404	0.2	91	0.00
45	S	2-Fluorobiphenyl	1.298	1.344	-3.5	98	-0.01
46		1,1'-Biphenyl	1.551	1.613	-4.0	97	-0.02
47		2-Chloronaphthalene	1.147	1.203	-4.9	99	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141755.D
Acq On : 25 Feb 2025 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 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	0.385	0.362	6.0	86	-0.01
49		Acenaphthylene	1.705	1.736	-1.8	95	-0.01
50		Dimethylphthalate	1.358	1.384	-1.9	96	-0.02
51		2,6-Dinitrotoluene	0.297	0.294	1.0	91	-0.01
52	C	Acenaphthene	1.147	1.127	1.7	91	-0.02
53		3-Nitroaniline	0.319	0.305	4.4	89	-0.01
54	P	2,4-Dinitrophenol	0.176	0.155	11.9	81	0.00
55		Dibenzofuran	1.683	1.672	0.7	93	-0.02
56	P	4-Nitrophenol	0.237	0.207	12.7	77	0.00
57		2,4-Dinitrotoluene	0.395	0.376	4.8	88	-0.01
58		Fluorene	1.301	1.287	1.1	93	-0.02
59		2,3,4,6-Tetrachlorophenol	0.349	0.331	5.2	89	-0.02
60		Diethylphthalate	1.336	1.323	1.0	93	-0.02
61		4-Chlorophenyl-phenylether	0.626	0.644	-2.9	96	-0.02
62		4-Nitroaniline	0.324	0.286	11.7	79	-0.02
63		Azobenzene	1.328	1.278	3.8	90	-0.02
64	I	Phenanthrene-d10	1.000	1.000	0.0	83	-0.01
65		4,6-Dinitro-2-methylphenol	0.139	0.136	2.2	80	-0.01
66	c	n-Nitrosodiphenylamine	0.640	0.696	-8.7	92	-0.02
67		4-Bromophenyl-phenylether	0.224	0.247	-10.3	93	-0.02
68		Hexachlorobenzene	0.230	0.252	-9.6	92	-0.01
69		Atrazine	0.192	0.172	10.4	77	-0.02
70	C	Pentachlorophenol	0.147	0.146	0.7	79	-0.01
71		Phenanthrene	1.101	1.126	-2.3	87	-0.02
72		Anthracene	1.107	1.148	-3.7	88	-0.02
73		Carbazole	0.996	0.955	4.1	81	-0.01
74		Di-n-butylphthalate	1.150	1.169	-1.7	85	-0.02
75	C	Fluoranthene	1.167	1.071	8.2	78	-0.02
76	I	Chrysene-d12	1.000	1.000	0.0	68	-0.02
77		Benzidine	0.441	0.407	7.7	52	-0.01
78		Pyrene	1.703	1.941	-14.0	75	-0.02
79	S	Terphenyl-d14	1.185	1.341	-13.2	76	-0.02
80		Butylbenzylphthalate	0.590	0.653	-10.7	72	-0.02
81		Benzo(a)anthracene	1.329	1.394	-4.9	70	-0.02
82		3,3'-Dichlorobenzidine	0.381	0.421	-10.5	75	-0.02
83		Chrysene	1.228	1.271	-3.5	72	-0.02
84		Bis(2-ethylhexyl)phthalate	0.665	0.826	-24.2	81	-0.02
85	c	Di-n-octyl phthalate	0.949	1.341	-41.3#	94	-0.04
86	I	Perylene-d12	1.000	1.000	0.0	92	-0.03
87		Indeno(1,2,3-cd)pyrene	1.236	1.495	-21.0	107	-0.05
88		Benzo(b)fluoranthene	1.343	1.171	12.8	81	-0.04
89		Benzo(k)fluoranthene	1.147	0.994	13.3	80	-0.04
90	C	Benzo(a)pyrene	1.087	1.099	-1.1	93	-0.04
91		Dibenzo(a,h)anthracene	1.001	1.227	-22.6	107	-0.05
92		Benzo(g,h,i)perylene	1.048	1.273	-21.5	106	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141755.D
Acq On : 25 Feb 2025 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141755.D
Acq On : 25 Feb 2025 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 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	94	-0.01
2		1,4-Dioxane	40.000	40.569	-1.4	95	-0.02
3		Pyridine	40.000	42.447	-6.1	97	-0.03
4		n-Nitrosodimethylamine	40.000	36.290	9.3	84	-0.04
5	S	2-Fluorophenol	80.000	86.457	-8.1	101	0.00
6		Aniline	40.000	40.528	-1.3	94	-0.02
7	S	Phenol-d6	80.000	82.975	-3.7	98	-0.01
8		2-Chlorophenol	40.000	42.450	-6.1	100	-0.01
9		Benzaldehyde	40.000	43.804	-9.5	108	0.00
10	C	Phenol	40.000	41.592	-4.0	97	-0.01
11		bis(2-Chloroethyl)ether	40.000	41.592	-4.0	97	-0.01
12		1,3-Dichlorobenzene	40.000	43.146	-7.9	103	-0.01
13	C	1,4-Dichlorobenzene	40.000	42.757	-6.9	102	-0.01
14		1,2-Dichlorobenzene	40.000	43.218	-8.0	102	-0.01
15		Benzyl Alcohol	40.000	39.710	0.7	92	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.422	3.9	90	-0.01
17		2-Methylphenol	40.000	41.327	-3.3	97	0.00
18		Hexachloroethane	40.000	42.225	-5.6	99	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	41.150	-2.9	96	-0.02
20		3+4-Methylphenols	40.000	42.065	-5.2	99	-0.01
21	I	Naphthalene-d8	20.000	20.000	0.0	95	-0.01
22		Acetophenone	40.000	40.679	-1.7	97	-0.02
23	S	Nitrobenzene-d5	80.000	80.153	-0.2	95	-0.01
24		Nitrobenzene	40.000	40.343	-0.9	96	-0.01
25		Isophorone	40.000	40.460	-1.2	96	-0.02
26	C	2-Nitrophenol	40.000	42.764	-6.9	98	0.00
27		2,4-Dimethylphenol	40.000	42.025	-5.1	97	0.00
28		bis(2-Chloroethoxy)methane	40.000	41.812	-4.5	99	-0.01
29	C	2,4-Dichlorophenol	40.000	41.878	-4.7	98	0.00
30		1,2,4-Trichlorobenzene	40.000	41.760	-4.4	100	-0.01
31		Naphthalene	40.000	41.216	-3.0	98	-0.01
32		Benzoic acid	40.000	32.162	19.6	75	-0.03
33		4-Chloroaniline	40.000	41.733	-4.3	99	-0.02
34	C	Hexachlorobutadiene	40.000	41.794	-4.5	99	-0.01
35		Caprolactam	40.000	38.568	3.6	88	-0.03
36	C	4-Chloro-3-methylphenol	40.000	39.939	0.2	94	-0.01
37		2-Methylnaphthalene	40.000	41.309	-3.3	99	-0.01
38		1-Methylnaphthalene	40.000	40.360	-0.9	96	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	93	-0.02
40		1,2,4,5-Tetrachlorobenzene	40.000	42.881	-7.2	99	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.208	-3.0	91	-0.01
42	S	2,4,6-Tribromophenol	80.000	76.201	4.7	89	-0.02
43	C	2,4,6-Trichlorophenol	40.000	40.921	-2.3	94	0.00
44		2,4,5-Trichlorophenol	40.000	39.849	0.4	91	0.00
45	S	2-Fluorobiphenyl	80.000	82.817	-3.5	98	-0.01
46		1,1'-Biphenyl	40.000	41.602	-4.0	97	-0.02
47		2-Chloronaphthalene	40.000	41.952	-4.9	99	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141755.D
Acq On : 25 Feb 2025 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 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	37.587	6.0	86	-0.01
49		Acenaphthylene	40.000	40.722	-1.8	95	-0.01
50		Dimethylphthalate	40.000	40.768	-1.9	96	-0.02
51		2,6-Dinitrotoluene	40.000	39.655	0.9	91	-0.01
52	C	Acenaphthene	40.000	39.327	1.7	91	-0.02
53		3-Nitroaniline	40.000	38.195	4.5	89	-0.01
54	P	2,4-Dinitrophenol	40.000	35.138	12.2	81	0.00
55		Dibenzofuran	40.000	39.732	0.7	93	-0.02
56	P	4-Nitrophenol	40.000	34.873	12.8	77	0.00
57		2,4-Dinitrotoluene	40.000	38.111	4.7	88	-0.01
58		Fluorene	40.000	39.572	1.1	93	-0.02
59		2,3,4,6-Tetrachlorophenol	40.000	37.977	5.1	89	-0.02
60		Diethylphthalate	40.000	39.619	1.0	93	-0.02
61		4-Chlorophenyl-phenylether	40.000	41.182	-3.0	96	-0.02
62		4-Nitroaniline	40.000	35.243	11.9	79	-0.02
63		Azobenzene	40.000	38.507	3.7	90	-0.02
64	I	Phenanthrene-d10	20.000	20.000	0.0	83	-0.01
65		4,6-Dinitro-2-methylphenol	40.000	39.171	2.1	80	-0.01
66	c	n-Nitrosodiphenylamine	40.000	43.456	-8.6	92	-0.02
67		4-Bromophenyl-phenylether	40.000	44.246	-10.6	93	-0.02
68		Hexachlorobenzene	40.000	43.753	-9.4	92	-0.01
69		Atrazine	40.000	35.789	10.5	77	-0.02
70	C	Pentachlorophenol	40.000	39.625	0.9	79	-0.01
71		Phenanthrene	40.000	40.914	-2.3	87	-0.02
72		Anthracene	40.000	41.494	-3.7	88	-0.02
73		Carbazole	40.000	38.357	4.1	81	-0.01
74		Di-n-butylphthalate	40.000	40.662	-1.7	85	-0.02
75	C	Fluoranthene	40.000	36.703	8.2	78	-0.02
76	I	Chrysene-d12	20.000	20.000	0.0	68	-0.02
77		Benzidine	40.000	36.886	7.8	52	-0.01
78		Pyrene	40.000	45.595	-14.0	75	-0.02
79	S	Terphenyl-d14	80.000	90.576	-13.2	76	-0.02
80		Butylbenzylphthalate	40.000	44.277	-10.7	72	-0.02
81		Benzo(a)anthracene	40.000	41.938	-4.8	70	-0.02
82		3,3'-Dichlorobenzidine	40.000	44.271	-10.7	75	-0.02
83		Chrysene	40.000	41.405	-3.5	72	-0.02
84		Bis(2-ethylhexyl)phthalate	40.000	49.688	-24.2	81	-0.02
85	c	Di-n-octyl phthalate	40.000	56.543	-41.4#	94	-0.04
86	I	Perylene-d12	20.000	20.000	0.0	92	-0.03
87		Indeno(1,2,3-cd)pyrene	40.000	48.386	-21.0	107	-0.05
88		Benzo(b)fluoranthene	40.000	34.885	12.8	81	-0.04
89		Benzo(k)fluoranthene	40.000	34.682	13.3	80	-0.04
90	C	Benzo(a)pyrene	40.000	40.454	-1.1	93	-0.04
91		Dibenzo(a,h)anthracene	40.000	49.009	-22.5	107	-0.05
92		Benzo(g,h,i)perylene	40.000	48.600	-21.5	106	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141755.D
Acq On : 25 Feb 2025 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 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: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: BNA_F Calibration Date/Time: 02/26/2025 10:45

Lab File ID: BF141775.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.276	1.366		7.1	
Benzaldehyde	0.857	0.907		5.8	
Phenol-d6	1.612	1.663		3.2	
Phenol	1.678	1.722		2.6	20.0
bis(2-Chloroethyl)ether	1.261	1.285		1.9	
2-Chlorophenol	1.378	1.467		6.5	
2-Methylphenol	1.079	1.099		1.9	
2,2-oxybis(1-Chloropropane)	2.158	2.011		-6.8	
Acetophenone	0.498	0.499		0.2	
3+4-Methylphenols	1.371	1.432		4.4	
n-Nitroso-di-n-propylamine	0.964	0.977	0.050	1.3	
Nitrobenzene-d5	0.383	0.375		-2.1	
Hexachloroethane	0.550	0.572		4.0	
Nitrobenzene	0.374	0.361		-3.5	
Isophorone	0.611	0.607		-0.7	
2-Nitrophenol	0.186	0.196		5.4	20.0
2,4-Dimethylphenol	0.217	0.221		1.8	
bis(2-Chloroethoxy)methane	0.392	0.404		3.1	
2,4-Dichlorophenol	0.294	0.303		3.1	20.0
Naphthalene	1.041	1.050		0.9	
4-Chloroaniline	0.363	0.381		5.0	
Hexachlorobutadiene	0.192	0.196		2.1	20.0
Caprolactam	0.089	0.090		1.1	
4-Chloro-3-methylphenol	0.325	0.327		0.6	20.0
2-Methylnaphthalene	0.677	0.692		2.2	
Hexachlorocyclopentadiene	0.192	0.186	0.050	-3.1	
2,4,6-Trichlorophenol	0.374	0.378		1.1	20.0
2-Fluorobiphenyl	1.298	1.311		1.0	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.551	1.592		2.6	
2-Chloronaphthalene	1.147	1.179		2.8	
2-Nitroaniline	0.385	0.371		-3.6	
Dimethylphthalate	1.358	1.404		3.4	
Acenaphthylene	1.705	1.716		0.6	
2,6-Dinitrotoluene	0.297	0.311		4.7	
3-Nitroaniline	0.319	0.316		-0.9	
Acenaphthene	1.147	1.148		0.1	20.0
2,4-Dinitrophenol	0.176	0.165	0.050	-6.3	
4-Nitrophenol	0.237	0.220	0.050	-7.2	

Form VII SV-1

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: BNA_F Calibration Date/Time: 02/26/2025 10:45

Lab File ID: BF141775.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.683	1.683		0.0	
2,4-Dinitrotoluene	0.395	0.392		-0.8	
Diethylphthalate	1.336	1.362		1.9	
4-Chlorophenyl-phenylether	0.626	0.660		5.4	
Fluorene	1.301	1.325		1.8	
4-Nitroaniline	0.324	0.308		-4.9	
4,6-Dinitro-2-methylphenol	0.139	0.138		-0.7	
n-Nitrosodiphenylamine	0.640	0.669		4.5	20.0
2,4,6-Tribromophenol	0.201	0.205		2.0	
4-Bromophenyl-phenylether	0.224	0.239		6.7	
Hexachlorobenzene	0.230	0.248		7.8	
Atrazine	0.192	0.176		-8.3	
Pentachlorophenol	0.147	0.154		4.8	20.0
Phenanthrene	1.101	1.138		3.4	
Anthracene	1.107	1.135		2.5	
Carbazole	0.996	0.991		-0.5	
Di-n-butylphthalate	1.150	1.240		7.8	
Fluoranthene	1.167	1.148		-1.6	20.0
Pyrene	1.703	1.867		9.6	
Terphenyl-d14	1.185	1.316		11.1	
Butylbenzylphthalate	0.590	0.688		16.6	
3,3-Dichlorobenzidine	0.381	0.427		12.1	
Benzo(a)anthracene	1.329	1.363		2.6	
Chrysene	1.228	1.285		4.6	
Bis(2-ethylhexyl)phthalate	0.665	0.883		32.8	
Di-n-octyl phthalate	0.949	1.339		41.1	20.0
Benzo(b)fluoranthene	1.343	1.304		-2.9	
Benzo(k)fluoranthene	1.147	1.152		0.4	
Benzo(a)pyrene	1.087	1.110		2.1	20.0
Indeno(1,2,3-cd)pyrene	1.236	1.406		13.8	
Dibenzo(a,h)anthracene	1.001	1.141		14.0	
Benzo(g,h,i)perylene	1.048	1.186		13.2	
1,2,4,5-Tetrachlorobenzene	0.579	0.600		3.6	
1,4-Dioxane	0.513	0.531		3.5	20.0
2,3,4,6-Tetrachlorophenol	0.349	0.345		-1.1	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141775.D
Acq On : 26 Feb 2025 10:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	85384	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	345346	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	188350	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	315416	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	190171	20.000	ng		-0.02
86) Perylene-d12	15.392	264	189428	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.404	112	466432	85.642	ng		0.00
7) Phenol-d6	6.428	99	568111	82.530	ng		-0.01
23) Nitrobenzene-d5	7.351	82	518282	78.277	ng		-0.01
42) 2,4,6-Tribromophenol	10.610	330	154150	81.472	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	987847	80.803	ng		-0.01
79) Terphenyl-d14	12.886	244	1001068	88.866	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.463	88	90761	41.405	ng		93
3) Pyridine	3.193	79	224879	43.112	ng		93
4) n-Nitrosodimethylamine	3.152	42	123982	35.897	ng		88
6) Aniline	6.445	93	260952	40.412	ng		85
8) 2-Chlorophenol	6.575	128	250565	42.577	ng		99
9) Benzaldehyde	6.334	77	154886	42.342	ng		98
10) Phenol	6.445	94	294136	41.054	ng		97
11) bis(2-Chloroethyl)ether	6.522	93	219466	40.782	ng		100
12) 1,3-Dichlorobenzene	6.722	146	264975	42.649	ng		97
13) 1,4-Dichlorobenzene	6.798	146	265409	41.812	ng		98
14) 1,2-Dichlorobenzene	6.951	146	250587	42.534	ng		99
15) Benzyl Alcohol	6.934	79	211609	40.087	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.057	45	343419	37.280	ng		56
17) 2-Methylphenol	7.051	107	187635	40.743	ng		96
18) Hexachloroethane	7.292	117	97620	41.554	ng		96
19) n-Nitroso-di-n-propyla...	7.198	70	166799	40.509	ng		95
20) 3+4-Methylphenols	7.204	107	244599	41.793	ng	#	82
22) Acetophenone	7.192	105	344659	40.120	ng	#	91
24) Nitrobenzene	7.369	77	249297	38.612	ng		98
25) Isophorone	7.610	82	419034	39.692	ng		97
26) 2-Nitrophenol	7.687	139	135704	42.247	ng		91
27) 2,4-Dimethylphenol	7.728	122	152758	40.708	ng		98
28) bis(2-Chloroethoxy)met...	7.816	93	278738	41.204	ng		100
29) 2,4-Dichlorophenol	7.934	162	209577	41.335	ng		99
30) 1,2,4-Trichlorobenzene	8.010	180	225383	40.821	ng		99
31) Naphthalene	8.087	128	725441	40.355	ng		100
32) Benzoic acid	7.869	122	129646	33.261	ng		97
33) 4-Chloroaniline	8.139	127	263309	41.953	ng		98
34) Hexachlorobutadiene	8.198	225	135565	40.899	ng		99
35) Caprolactam	8.516	113	62085	40.218	ng		92
36) 4-Chloro-3-methylphenol	8.628	107	225929	40.227	ng		100
37) 2-Methylnaphthalene	8.775	142	478235	40.882	ng		100
38) 1-Methylnaphthalene	8.875	142	456969	40.333	ng		97
40) 1,2,4,5-Tetrachloroben...	8.945	216	226158	41.503	ng		99
41) Hexachlorocyclopentadiene	8.928	237	70017	38.631	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	142256	40.392	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141775.D
Acq On : 26 Feb 2025 10:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

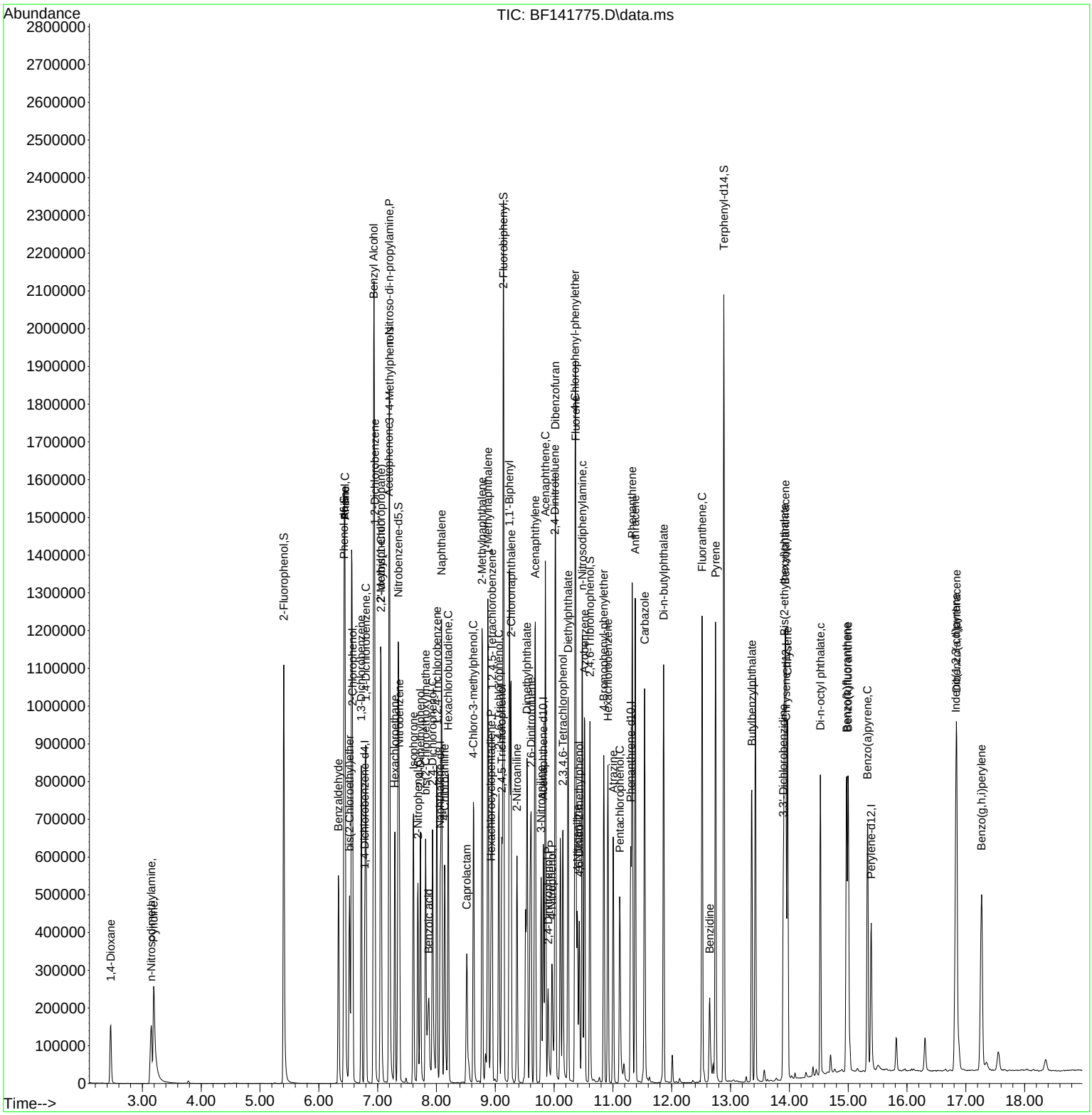
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	152360	39.917	ng	97
46) 1,1'-Biphenyl	9.239	154	599651	41.065	ng	99
47) 2-Chloronaphthalene	9.269	162	444145	41.132	ng	98
48) 2-Nitroaniline	9.369	65	139713	38.554	ng	95
49) Acenaphthylene	9.681	152	646345	40.243	ng	100
50) Dimethylphthalate	9.539	163	528963	41.369	ng	99
51) 2,6-Dinitrotoluene	9.610	165	117206	41.931	ng	95
52) Acenaphthene	9.851	154	432327	40.039	ng	100
53) 3-Nitroaniline	9.781	138	118897	39.520	ng	98
54) 2,4-Dinitrophenol	9.898	184	61995	37.317	ng	89
55) Dibenzofuran	10.022	168	633880	39.995	ng	99
56) 4-Nitrophenol	9.963	139	82815	37.082	ng	92
57) 2,4-Dinitrotoluene	10.016	165	147701	39.692	ng	98
58) Fluorene	10.369	166	499306	40.745	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	129813	39.503	ng	95
60) Diethylphthalate	10.239	149	512946	40.773	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	248595	42.168	ng	97
62) 4-Nitroaniline	10.398	138	116085	38.000	ng	94
63) Azobenzene	10.516	77	492750	39.399	ng	96
65) 4,6-Dinitro-2-methylph...	10.428	198	86949	39.684	ng	93
66) n-Nitrosodiphenylamine	10.480	169	422215	41.817	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	150998	42.834	ng	98
68) Hexachlorobenzene	10.916	284	156619	43.146	ng	98
69) Atrazine	11.004	200	111316	36.750	ng	98
70) Pentachlorophenol	11.116	266	96995	41.789	ng	98
71) Phenanthrene	11.327	178	718095	41.360	ng	100
72) Anthracene	11.380	178	716154	41.033	ng	100
73) Carbazole	11.539	167	625228	39.813	ng	100
74) Di-n-butylphthalate	11.863	149	782379	43.146	ng	100
75) Fluoranthene	12.516	202	723900	39.327	ng	100
77) Benzidine	12.645	184	169464	40.405	ng	99
78) Pyrene	12.745	202	710043	43.860	ng	100
80) Butylbenzylphthalate	13.363	149	261592	46.652	ng	96
81) Benzo(a)anthracene	13.933	228	518321	41.002	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	162521	44.881	ng	98
83) Chrysene	13.969	228	488888	41.884	ng	100
84) Bis(2-ethylhexyl)phtha...	13.916	149	335921	53.117	ng	100
85) Di-n-octyl phthalate	14.527	149	509316	56.453	ng	97
87) Indeno(1,2,3-cd)pyrene	16.833	276	532782	45.519	ng	99
88) Benzo(b)fluoranthene	14.974	252	493954	38.835	ng	99
89) Benzo(k)fluoranthene	14.998	252	436482	40.188	ng	99
90) Benzo(a)pyrene	15.327	252	420633	40.870	ng	98
91) Dibenzo(a,h)anthracene	16.845	278	432192	45.570	ng	99
92) Benzo(g,h,i)perylene	17.268	276	449342	45.275	ng	99

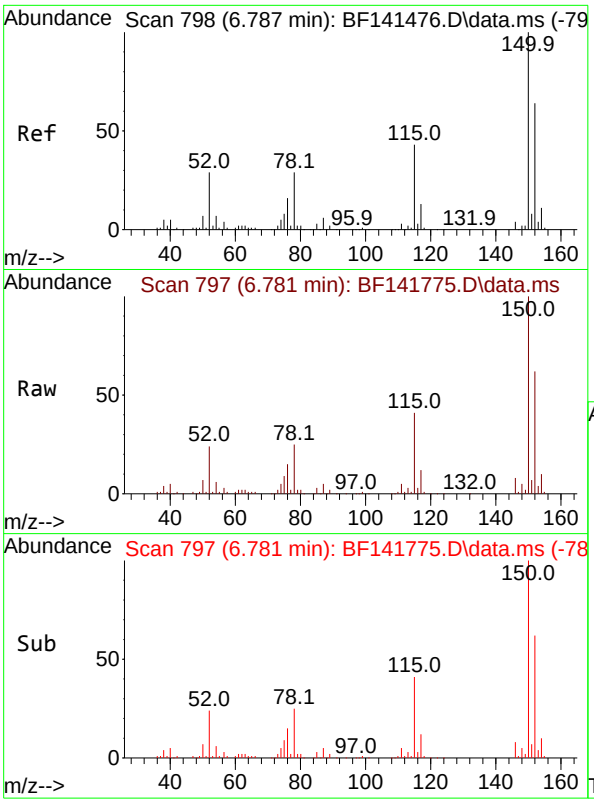
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141775.D
Acq On : 26 Feb 2025 10:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



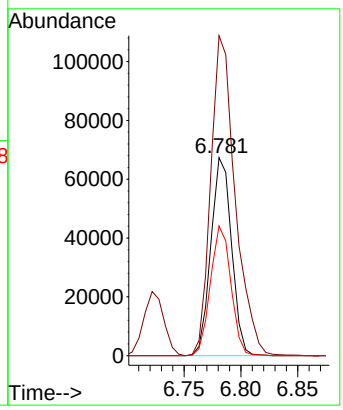


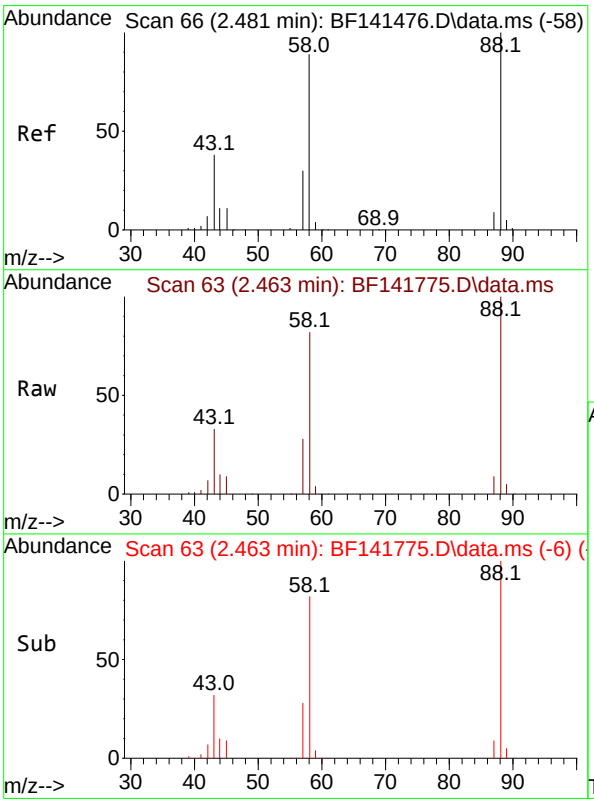
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 85384

Ion	Ratio	Lower	Upper
152	100		
150	161.5	125.0	187.4
115	65.5	53.6	80.4

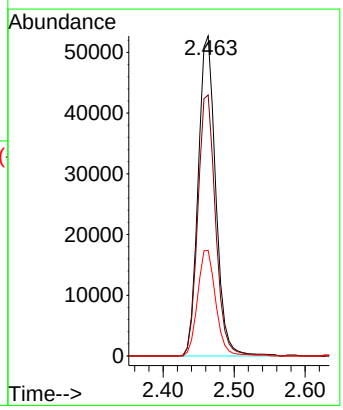


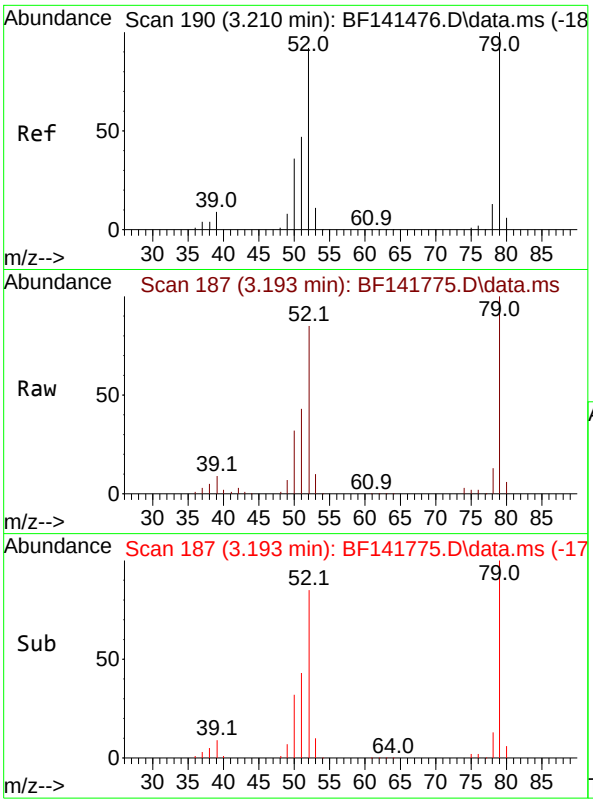


#2
1,4-Dioxane
Concen: 41.405 ng
RT: 2.463 min Scan# 63
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion: 88 Resp: 90761

Ion	Ratio	Lower	Upper
88	100		
58	82.5	71.1	106.7
43	34.2	30.6	46.0



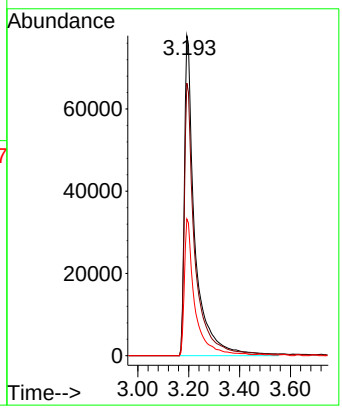


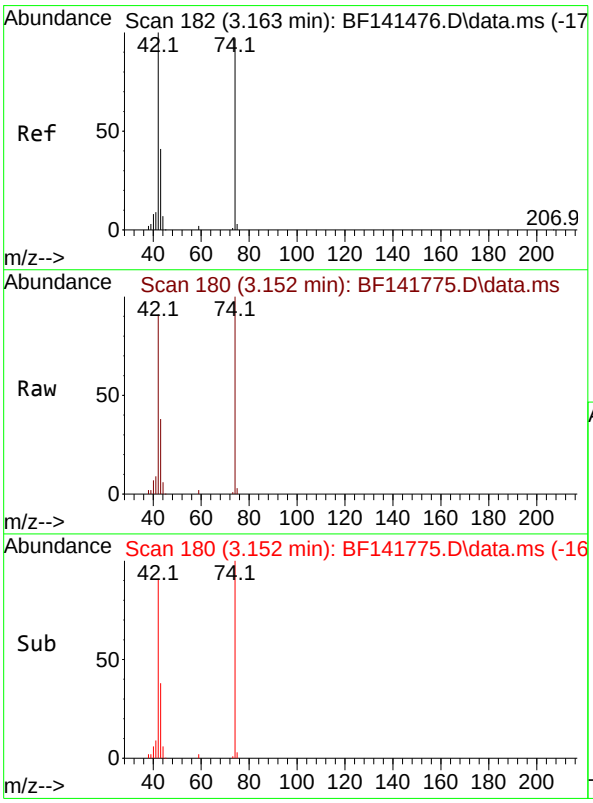
#3
Pyridine
Concen: 43.112 ng
RT: 3.193 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 224879

Ion	Ratio	Lower	Upper
79	100		
52	85.2	73.7	110.5
51	42.7	37.5	56.3

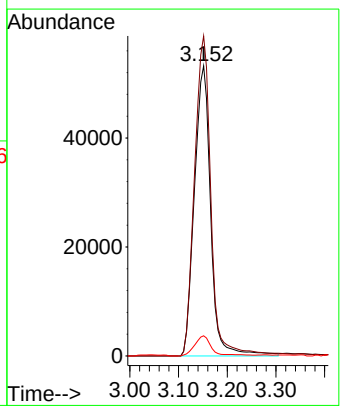


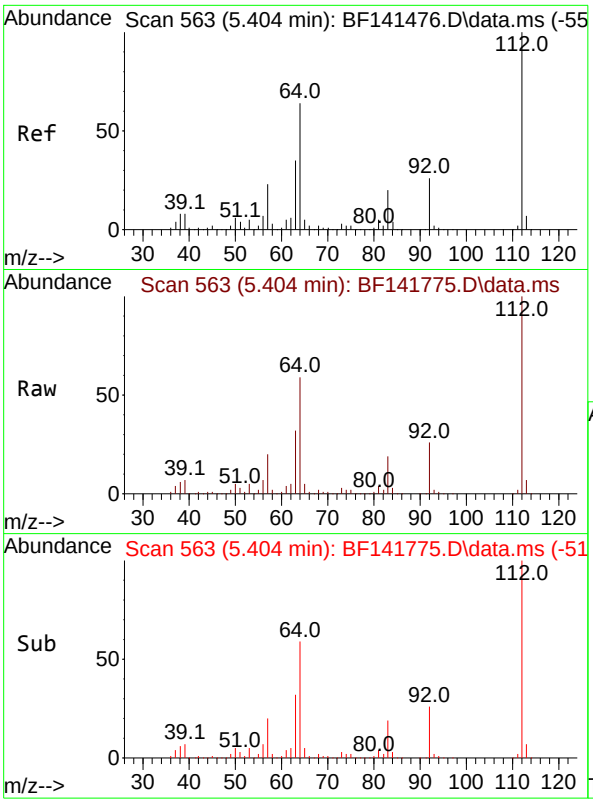


#4
n-Nitrosodimethylamine
Concen: 35.897 ng
RT: 3.152 min Scan# 180
Delta R.T. -0.035 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion: 42 Resp: 123982

Ion	Ratio	Lower	Upper
42	100		
74	110.3	78.0	117.0
44	7.0	5.4	8.2



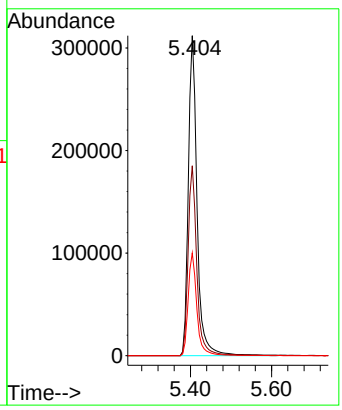


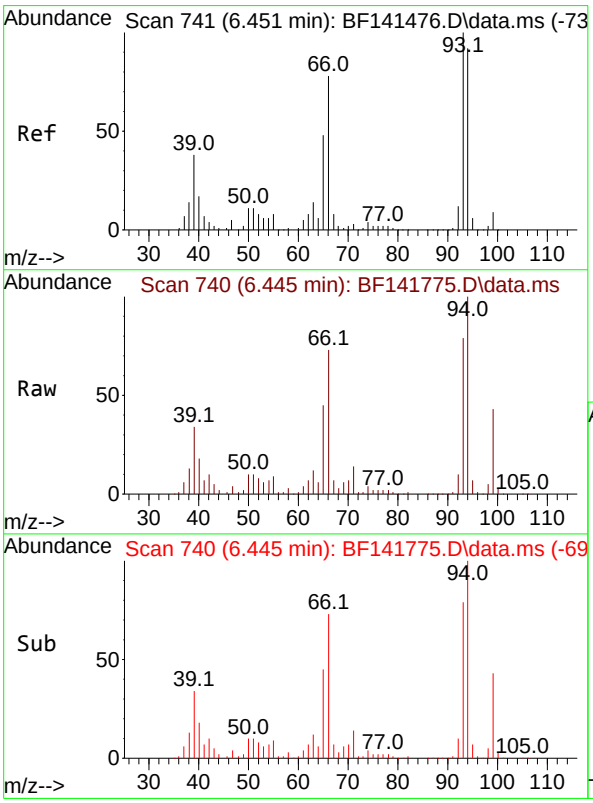
#5
2-Fluorophenol
Concen: 85.642 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 466432

Ion	Ratio	Lower	Upper
112	100		
64	59.4	51.1	76.7
63	32.1	28.4	42.6

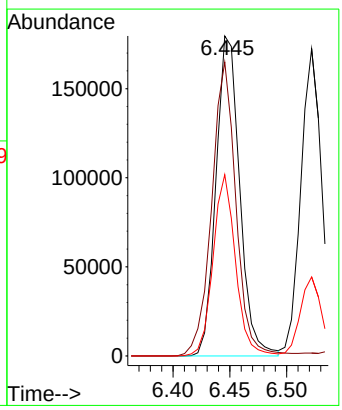


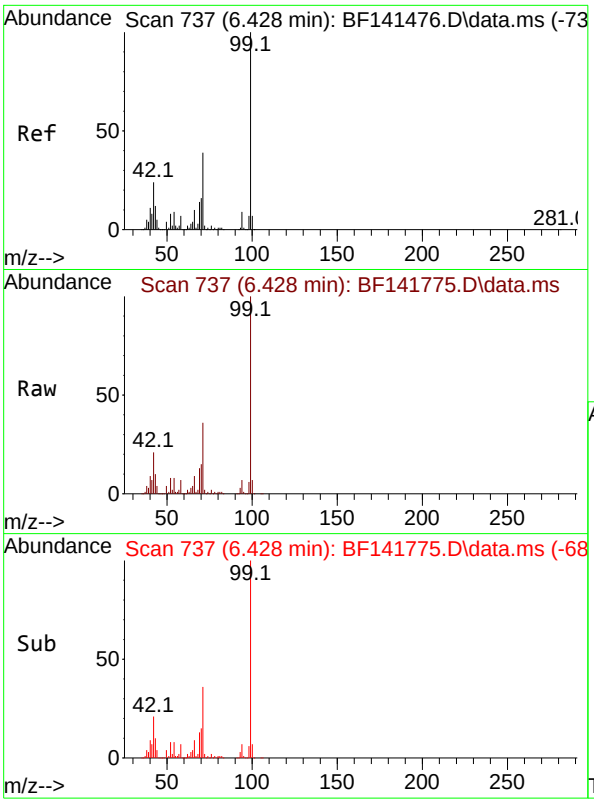


#6
Aniline
Concen: 40.412 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion: 93 Resp: 260952

Ion	Ratio	Lower	Upper
93	100		
66	91.9	62.6	94.0
65	56.7	38.3	57.5



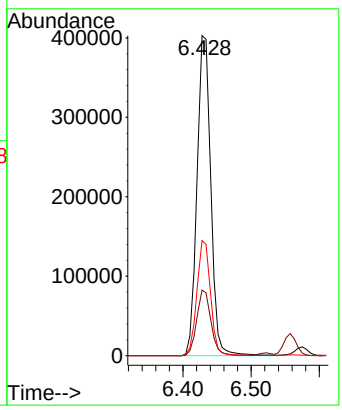


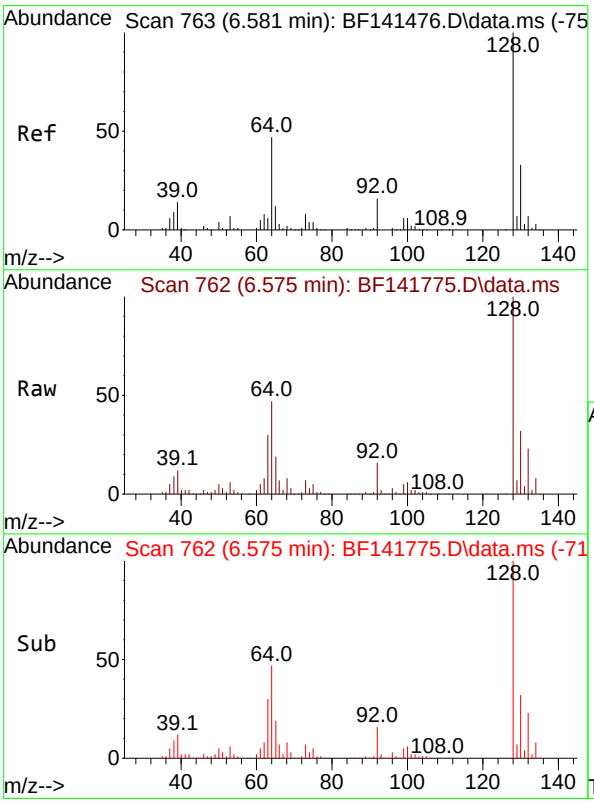
#7
Phenol-d6
Concen: 82.530 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 568111

Ion	Ratio	Lower	Upper
99	100		
42	20.5	19.1	28.7
71	35.9	31.1	46.7

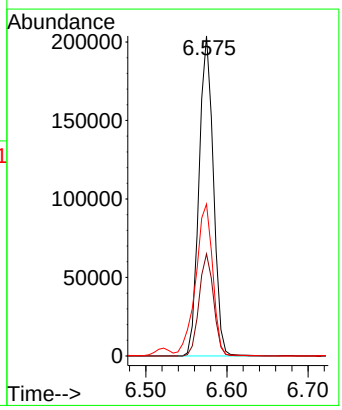


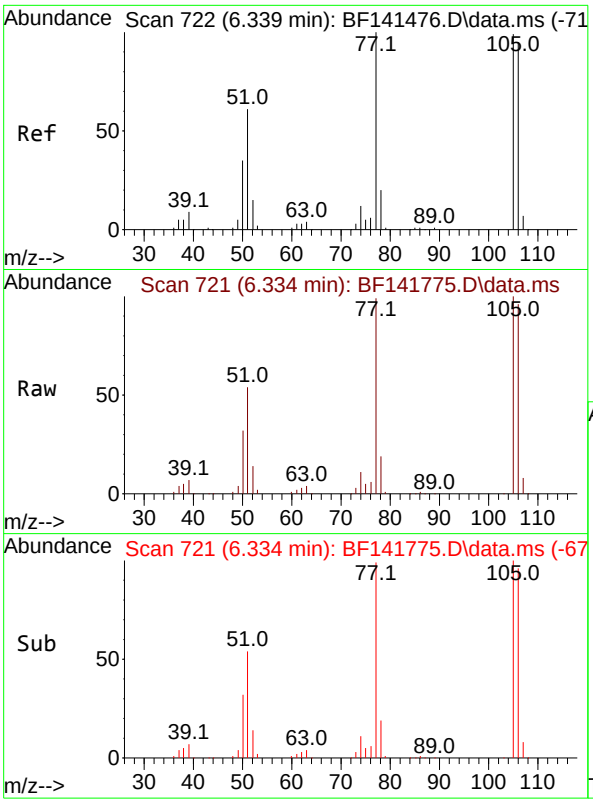


#8
2-Chlorophenol
Concen: 42.577 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:128 Resp: 250565

Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.7	52.7
64	47.4	28.3	68.3



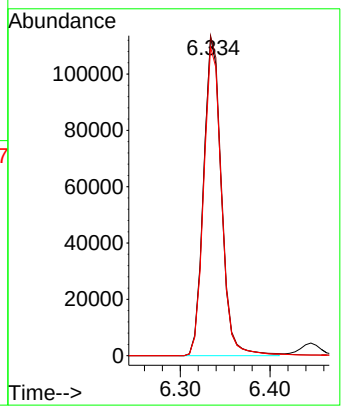


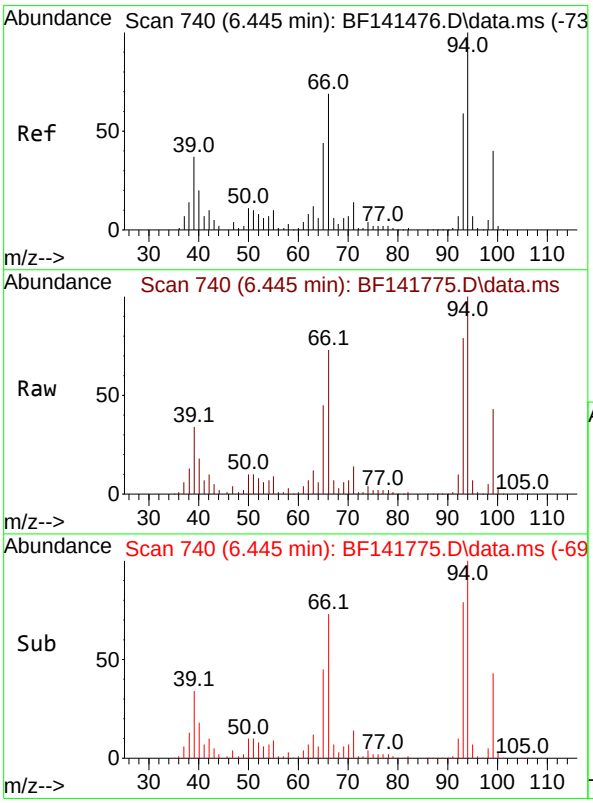
#9
Benzaldehyde
Concen: 42.342 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 154886

Ion	Ratio	Lower	Upper
77	100		
105	100.5	79.4	119.4
106	97.0	75.1	115.1

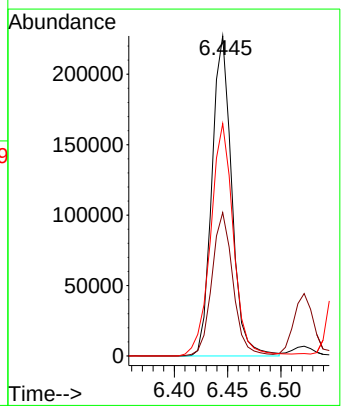


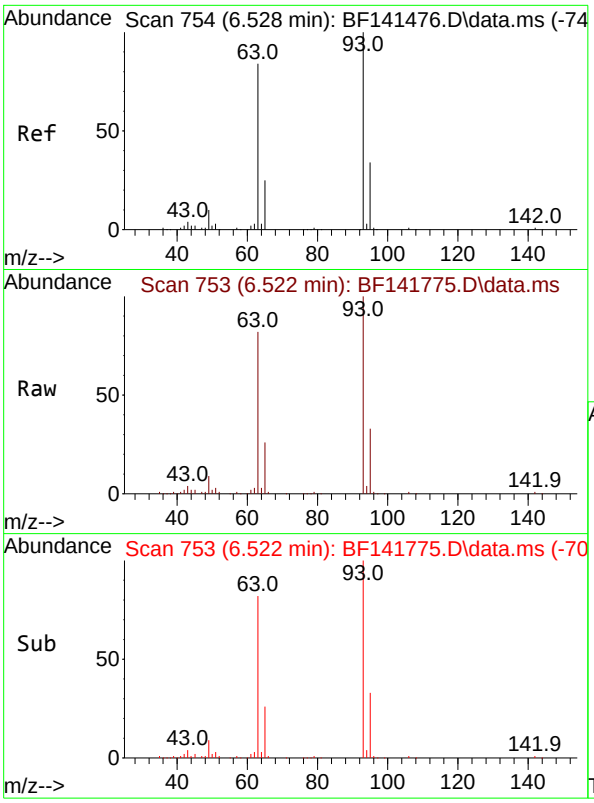


#10
Phenol
Concen: 41.054 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion: 94 Resp: 294136

Ion	Ratio	Lower	Upper
94	100		
65	44.8	23.7	63.7
66	72.6	49.3	89.3



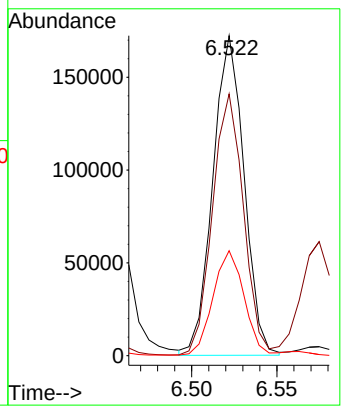


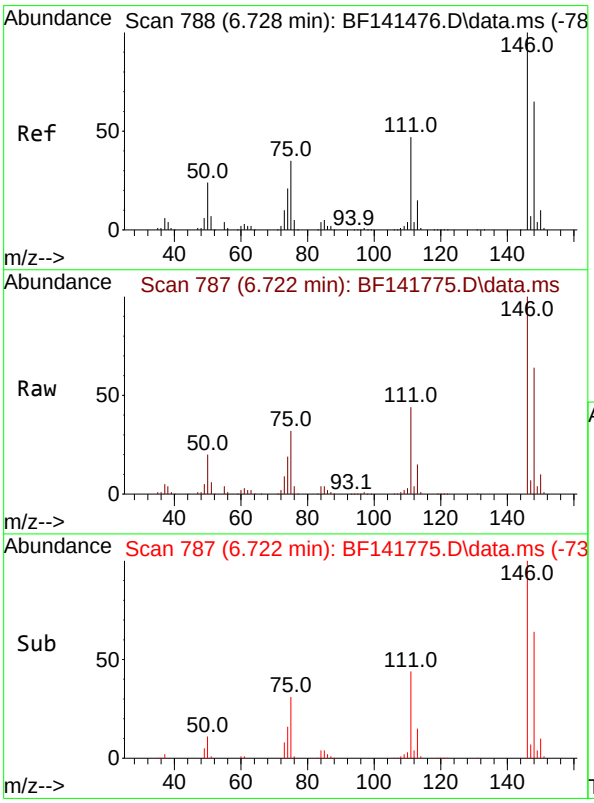
#11
bis(2-Chloroethyl)ether
Concen: 40.782 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 219466

Ion	Ratio	Lower	Upper
93	100		
63	81.8	62.0	102.0
95	32.8	12.6	52.6

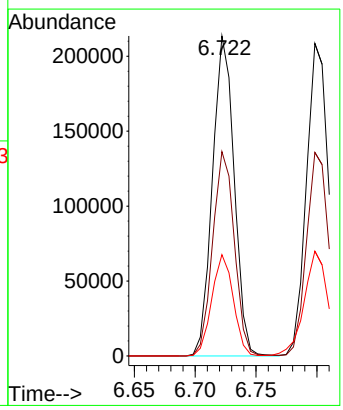


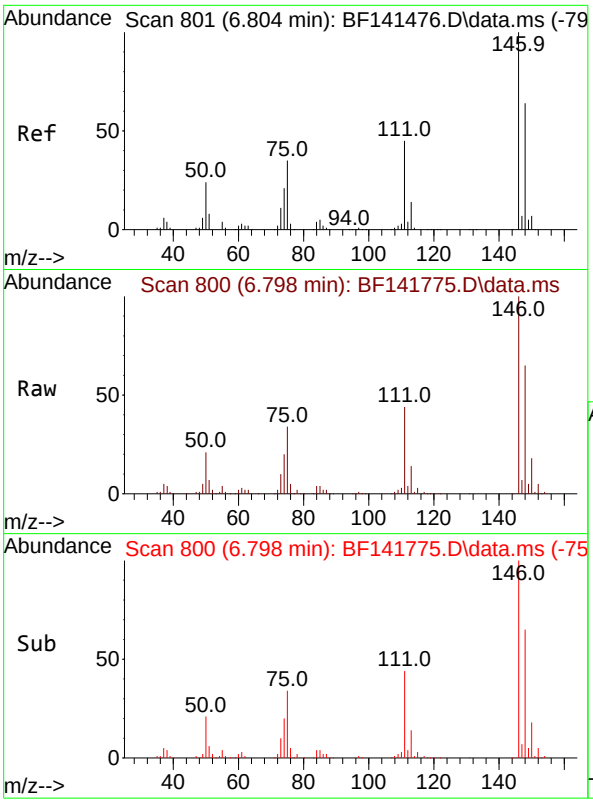


#12
1,3-Dichlorobenzene
Concen: 42.649 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:146 Resp: 264975

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.9	77.9
75	31.6	28.2	42.2



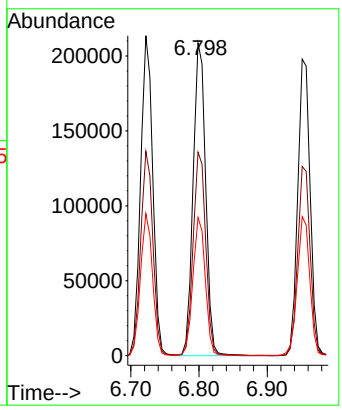


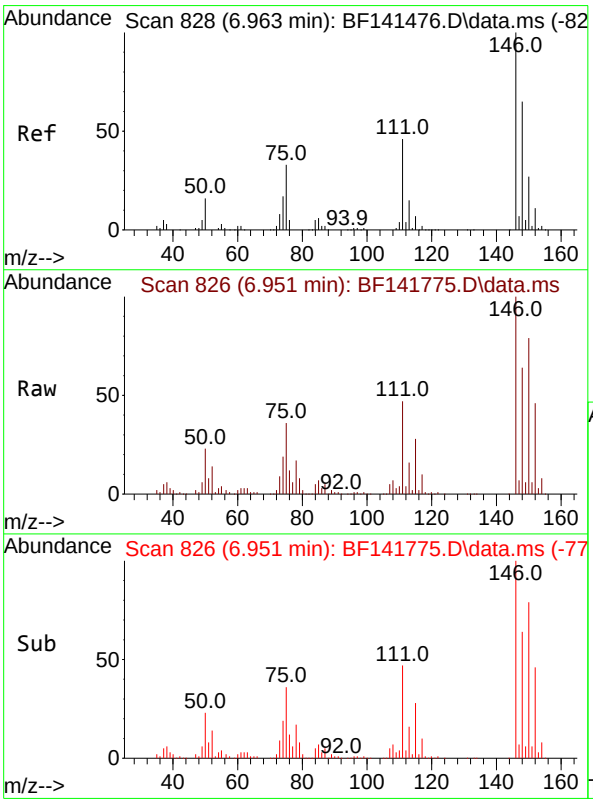
#13
1,4-Dichlorobenzene
Concen: 41.812 ng
RT: 6.798 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 265409

Ion	Ratio	Lower	Upper
146	100		
148	65.1	50.9	76.3
111	44.2	35.9	53.9

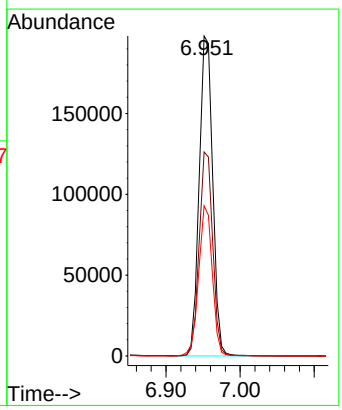


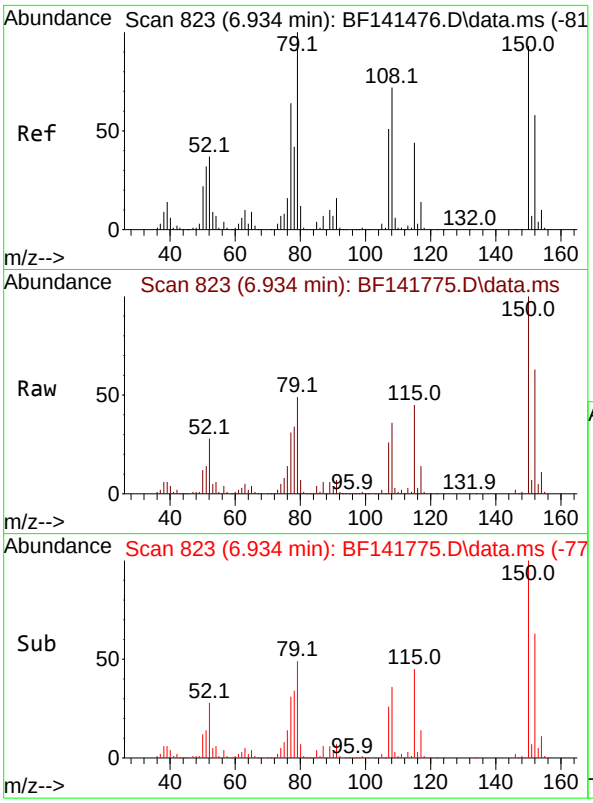


#14
1,2-Dichlorobenzene
Concen: 42.534 ng
RT: 6.951 min Scan# 826
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:146 Resp: 250587

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.8	77.6
111	46.9	37.0	55.4



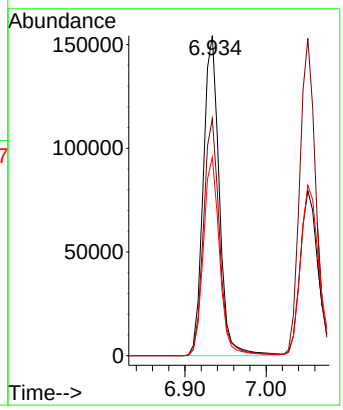


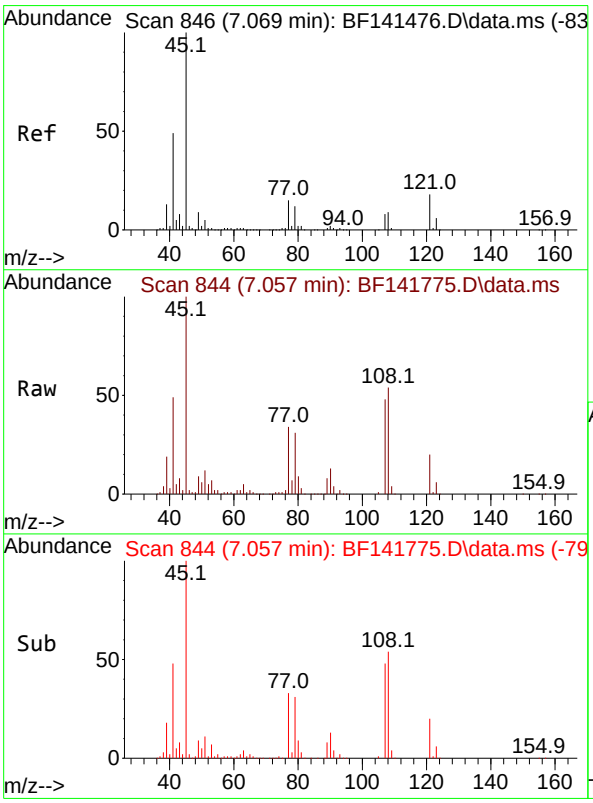
#15
Benzyl Alcohol
Concen: 40.087 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 211609

Ion	Ratio	Lower	Upper
79	100		
108	74.1	57.4	86.2
77	62.1	50.9	76.3

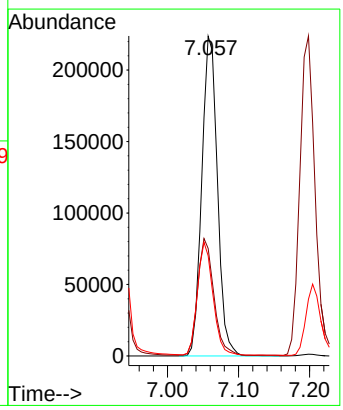


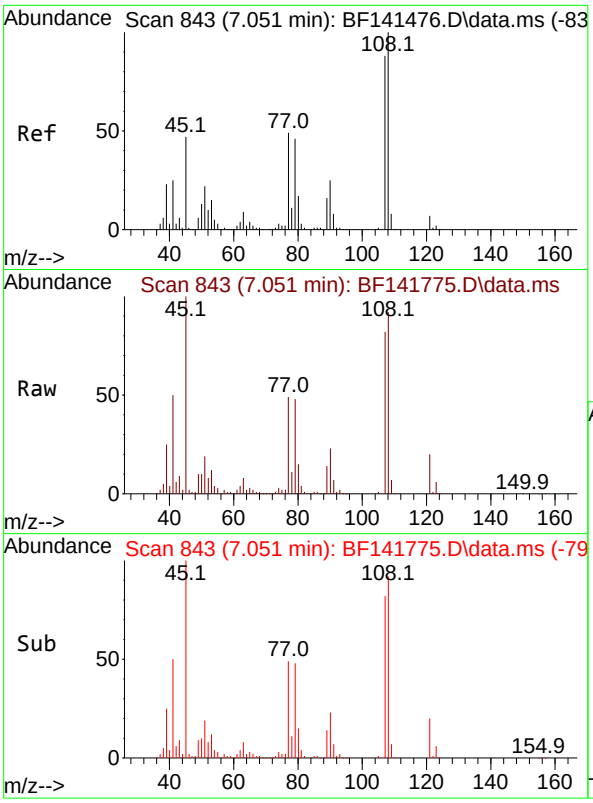


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.280 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion: 45 Resp: 343419

Ion	Ratio	Lower	Upper
45	100		
77	33.7	0.0	35.8
79	31.3	0.0	32.7



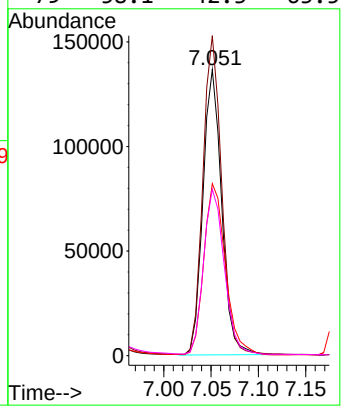


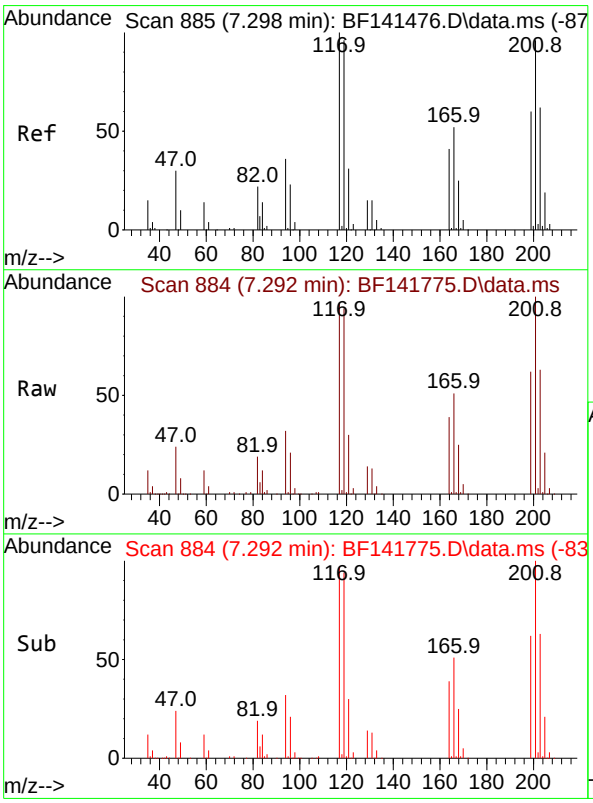
#17
2-Methylphenol
Concen: 40.743 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 187635

Ion	Ratio	Lower	Upper
107	100		
108	111.8	90.6	136.0
77	60.1	44.4	66.6
79	58.1	42.3	63.5

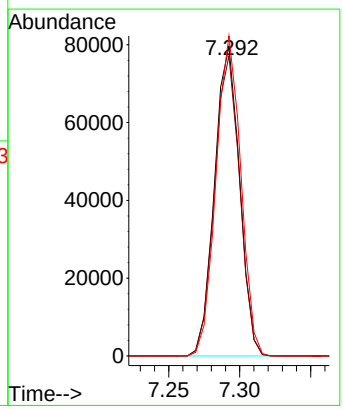


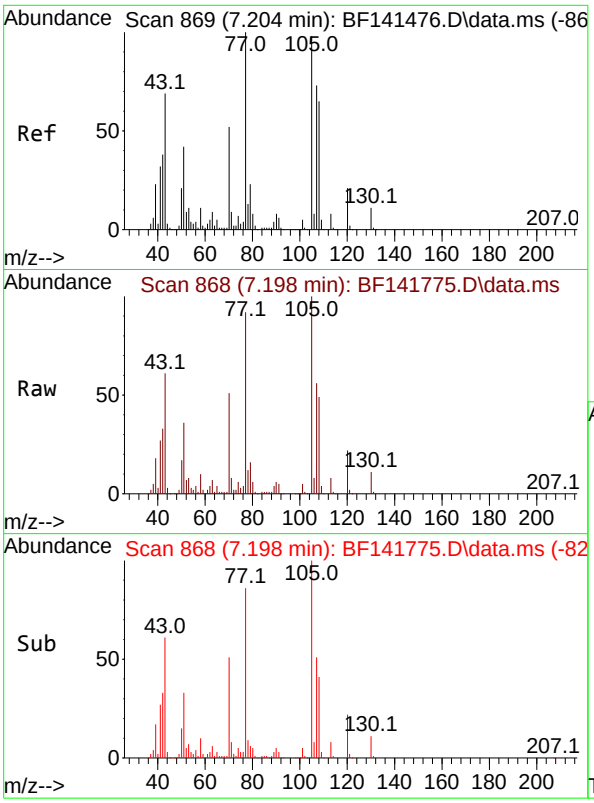


#18
Hexachloroethane
Concen: 41.554 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:117 Resp: 97620

Ion	Ratio	Lower	Upper
117	100		
119	96.9	76.5	114.7
201	103.3	76.7	115.1



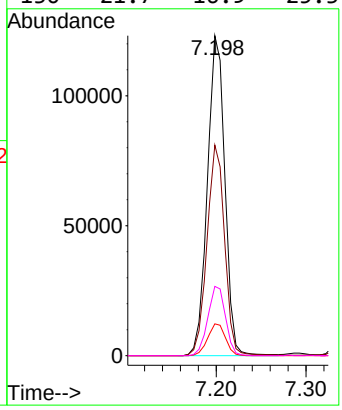


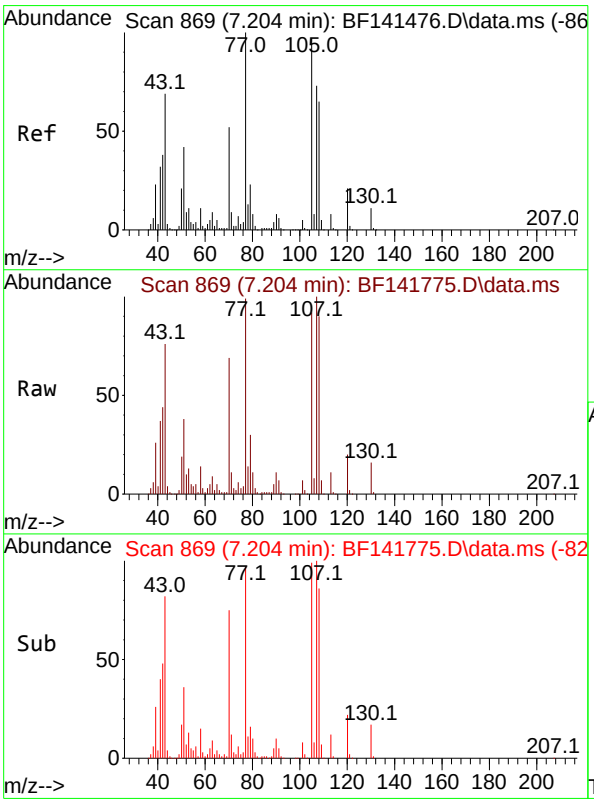
#19
n-Nitroso-di-n-propylamine
Concen: 40.509 ng
RT: 7.198 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 166799

Ion	Ratio	Lower	Upper
70	100		
42	65.8	57.4	86.2
101	10.0	8.0	12.0
130	21.7	16.9	25.3

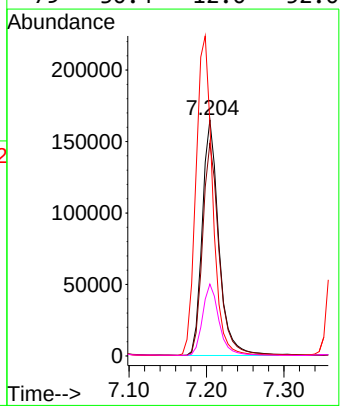


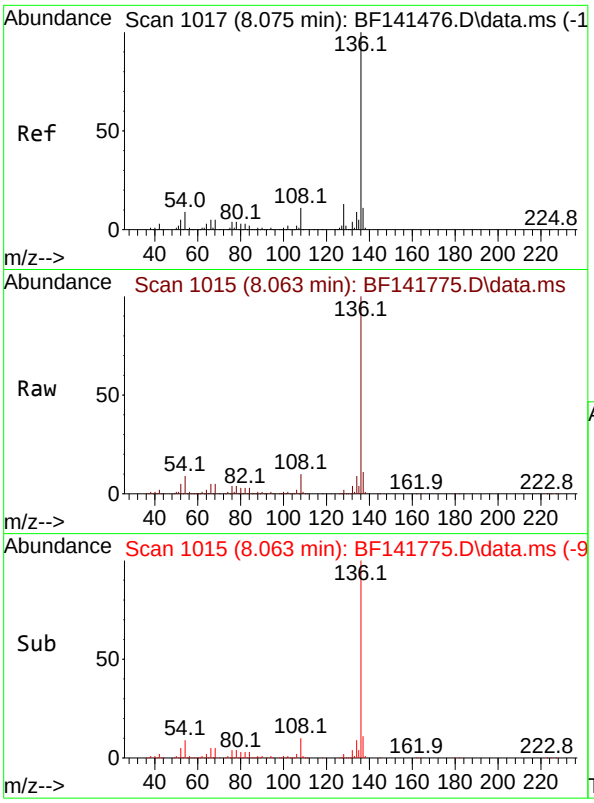


#20
3+4-Methylphenols
Concen: 41.793 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:107 Resp: 244599

Ion	Ratio	Lower	Upper
107	100		
108	90.2	68.5	108.5
77	98.8	116.5	156.5#
79	30.4	12.0	52.0



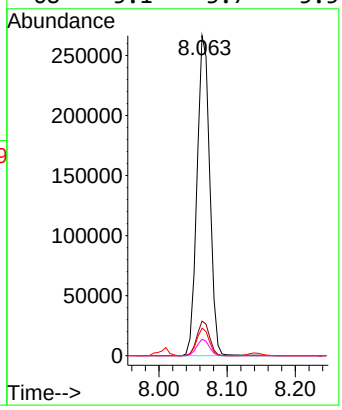


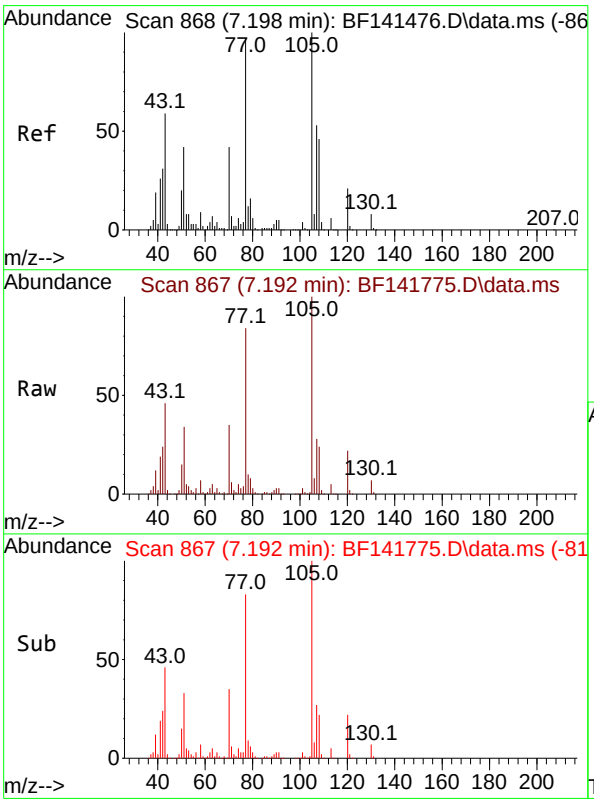
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 345346

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.6	7.2	10.8
68	5.1	3.7	5.5

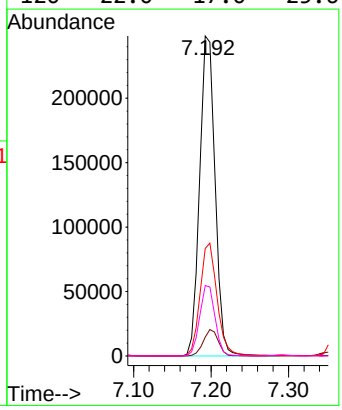


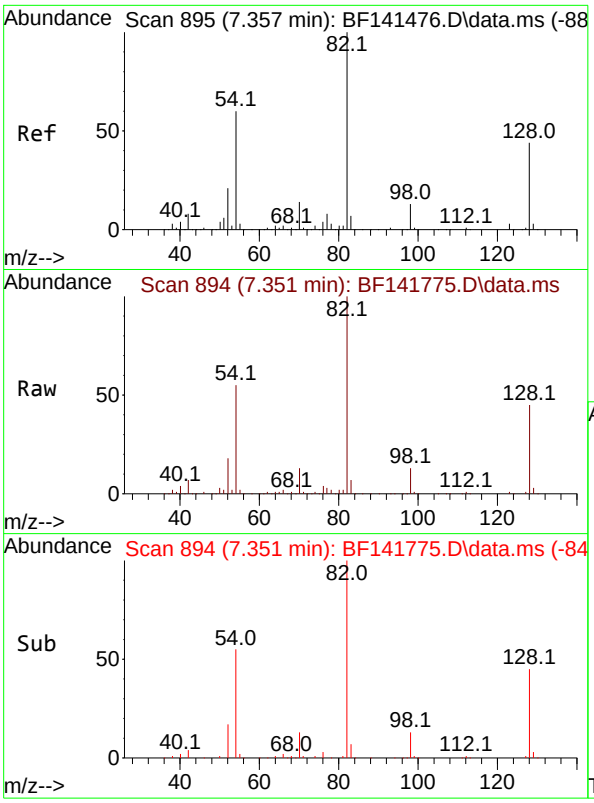


#22
Acetophenone
Concen: 40.120 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:105 Resp: 344659

Ion	Ratio	Lower	Upper
105	100		
71	5.9	5.7	8.5
51	33.6	33.7	50.5#
120	22.0	17.0	25.6



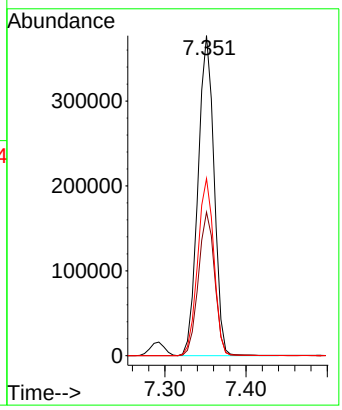


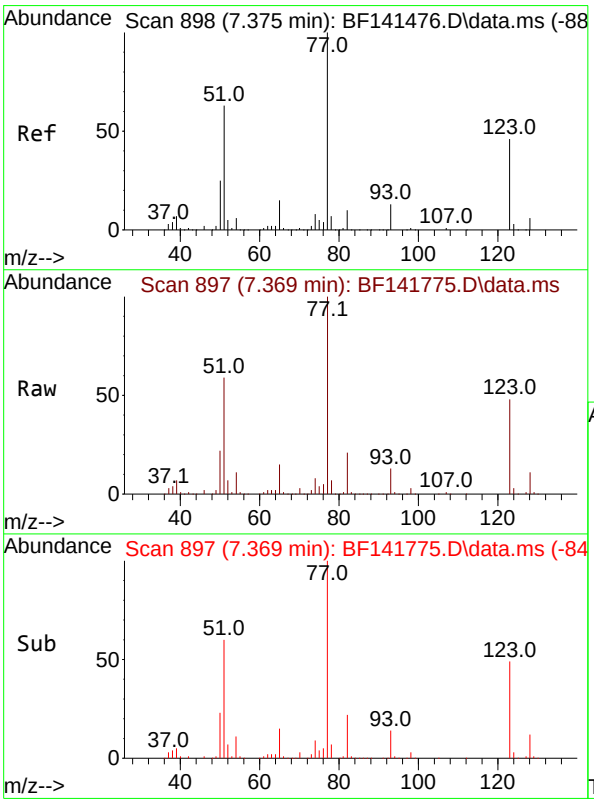
#23
Nitrobenzene-d5
Concen: 78.277 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 518282

Ion	Ratio	Lower	Upper
82	100		
128	44.9	34.8	52.2
54	55.4	48.2	72.4

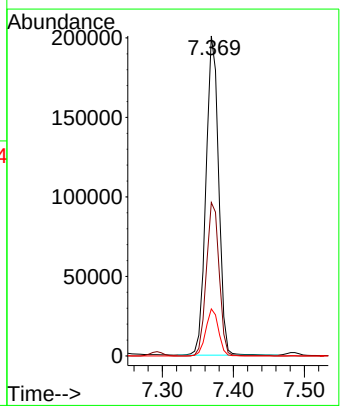


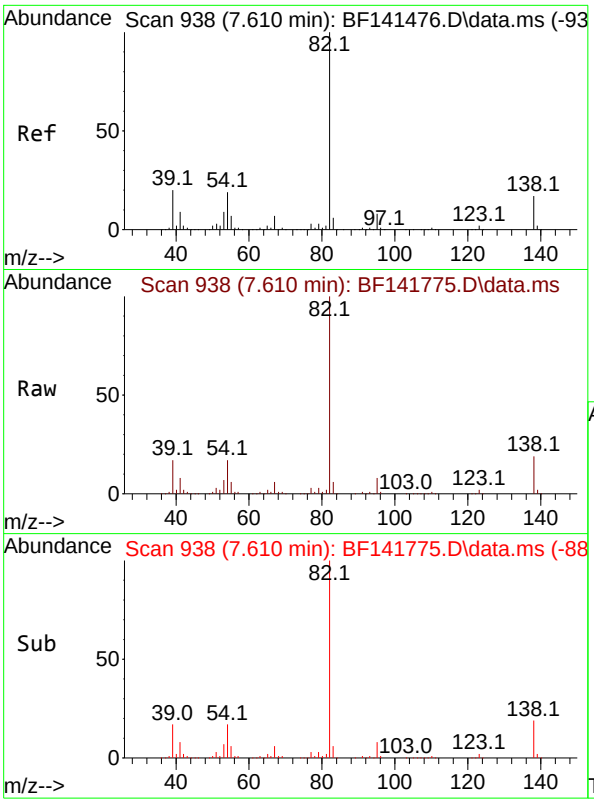


#24
Nitrobenzene
Concen: 38.612 ng
RT: 7.369 min Scan# 897
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion: 77 Resp: 249297

Ion	Ratio	Lower	Upper
77	100		
123	48.0	36.9	55.3
65	14.7	11.9	17.9



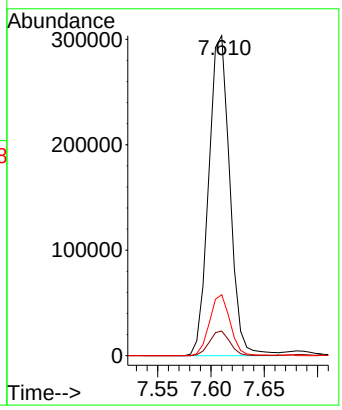


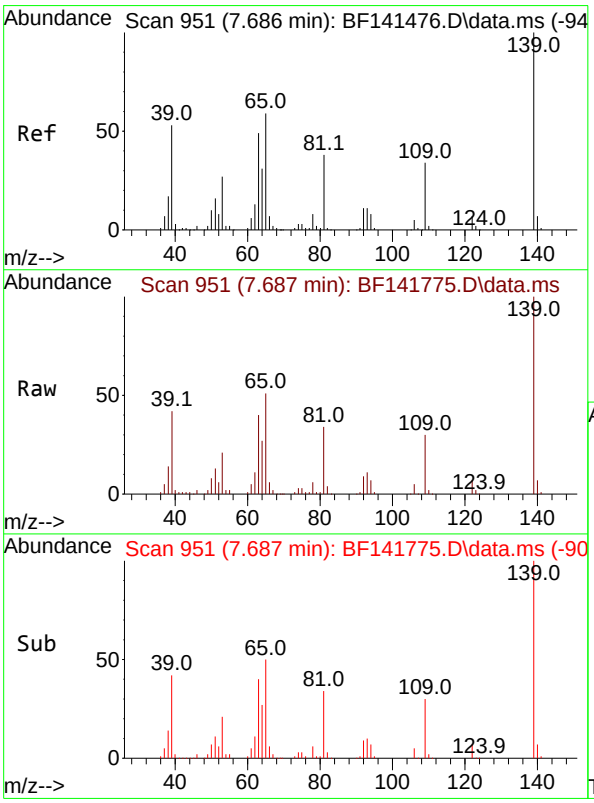
#25
Isophorone
Concen: 39.692 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 419034

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	19.1	13.9	20.9

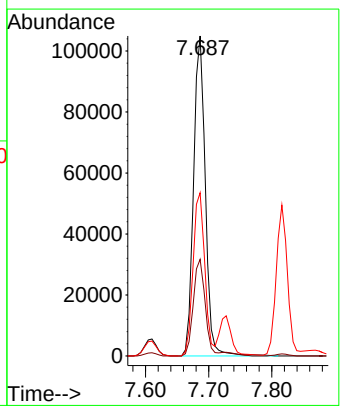


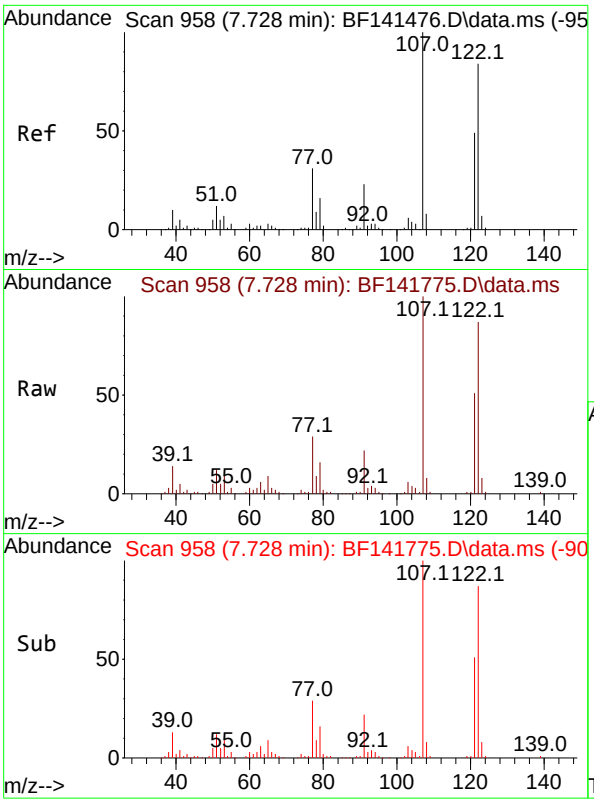


#26
2-Nitrophenol
Concen: 42.247 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:139 Resp: 135704

Ion	Ratio	Lower	Upper
139	100		
109	30.2	27.0	40.6
65	51.0	47.1	70.7



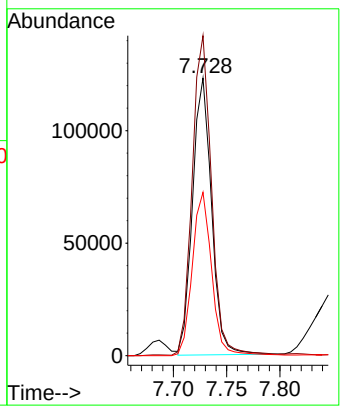


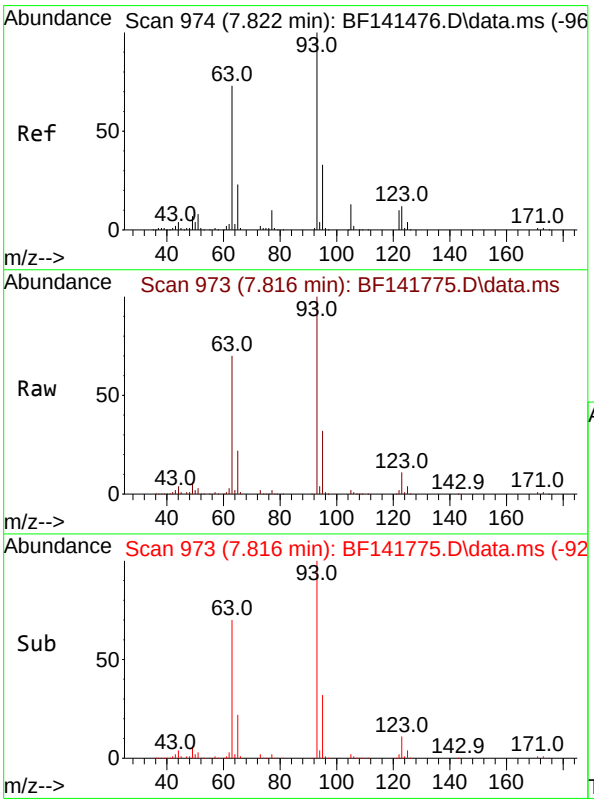
#27
2,4-Dimethylphenol
Concen: 40.708 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 152758

Ion	Ratio	Lower	Upper
122	100		
107	115.3	94.3	141.5
121	58.8	46.0	69.0

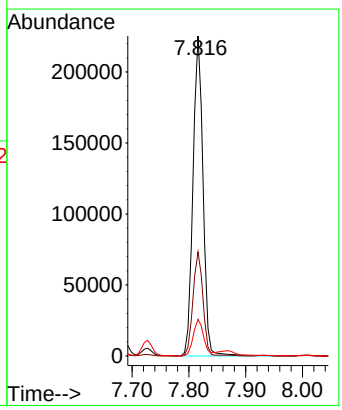


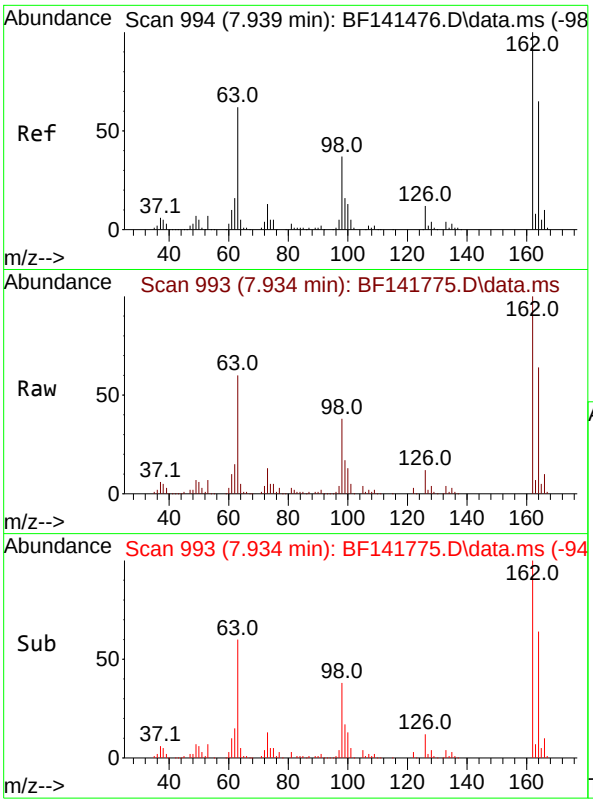


#28
bis(2-Chloroethoxy)methane
Concen: 41.204 ng
RT: 7.816 min Scan# 973
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion: 93 Resp: 278738

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.1	39.1
123	11.5	9.5	14.3



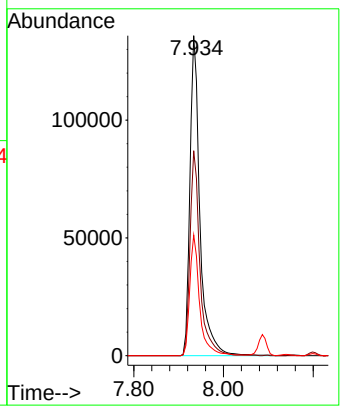


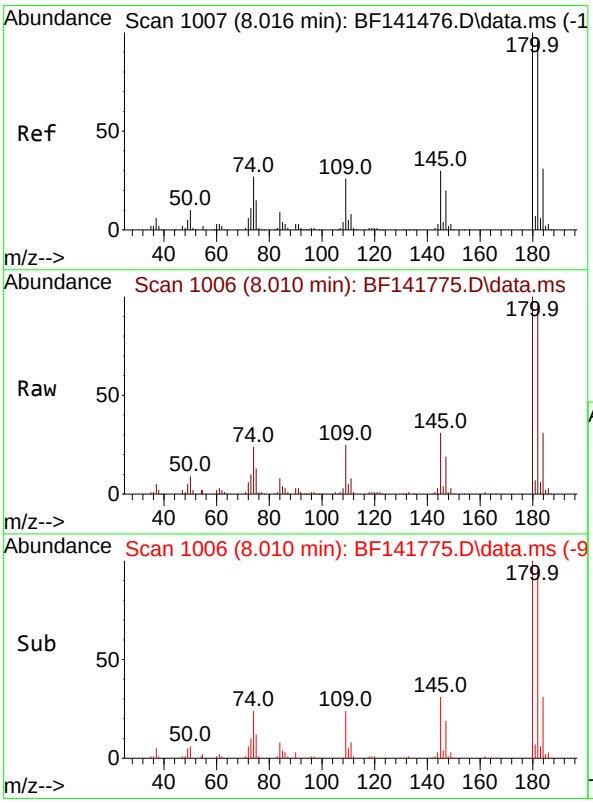
#29
2,4-Dichlorophenol
Concen: 41.335 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 209577

Ion	Ratio	Lower	Upper
162	100		
164	64.0	44.6	84.6
98	37.7	17.2	57.2

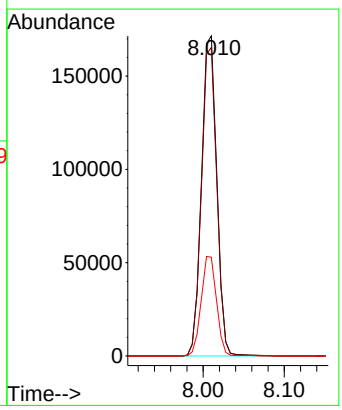


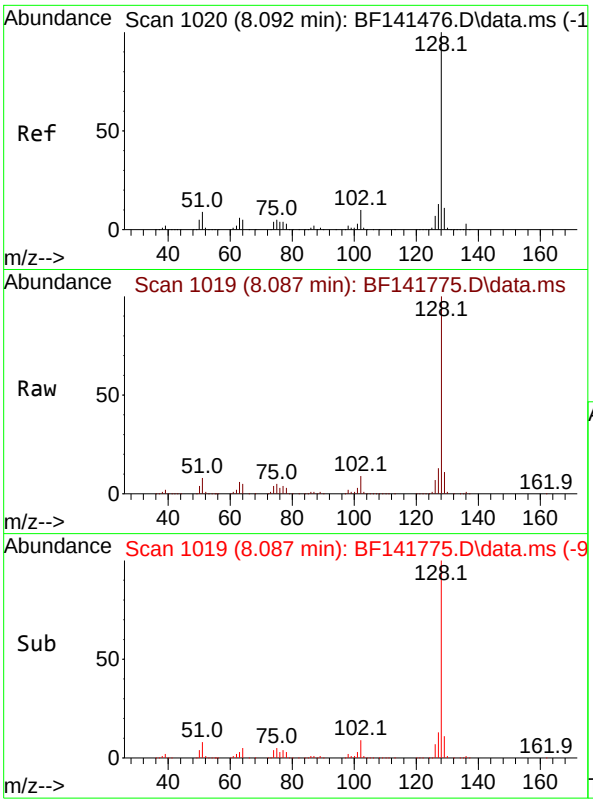


#30
1,2,4-Trichlorobenzene
Concen: 40.821 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:180 Resp: 225383

Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.8	115.2
145	30.8	24.2	36.4



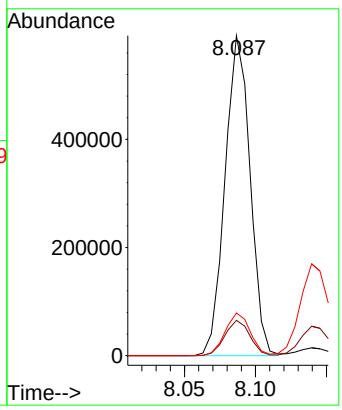


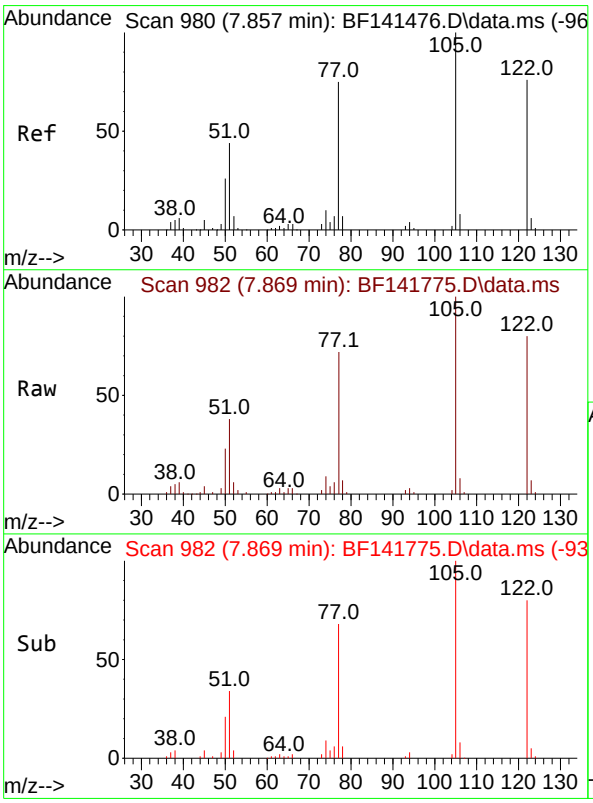
#31
Naphthalene
Concen: 40.355 ng
RT: 8.087 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 725441

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.7	16.1

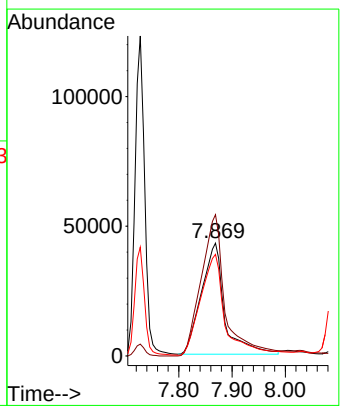


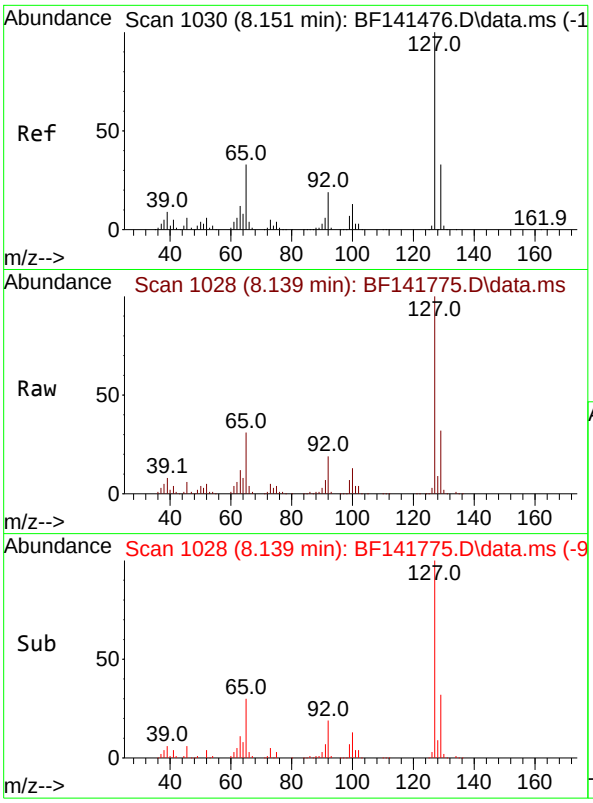


#32
Benzoic acid
Concen: 33.261 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.023 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:122 Resp: 129646

Ion	Ratio	Lower	Upper
122	100		
105	125.2	106.5	146.5
77	90.1	76.3	116.3



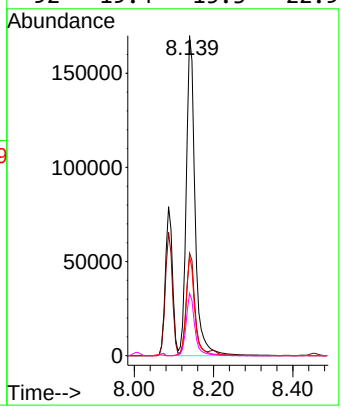


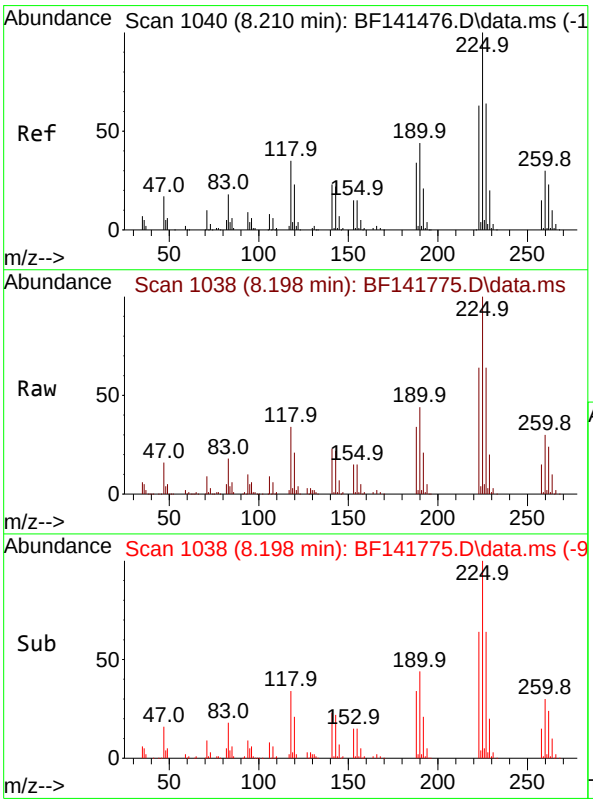
#33
4-Chloroaniline
Concen: 41.953 ng
RT: 8.139 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 263309

Ion	Ratio	Lower	Upper
127	100		
129	32.0	26.5	39.7
65	31.1	26.4	39.6
92	19.4	15.3	22.9

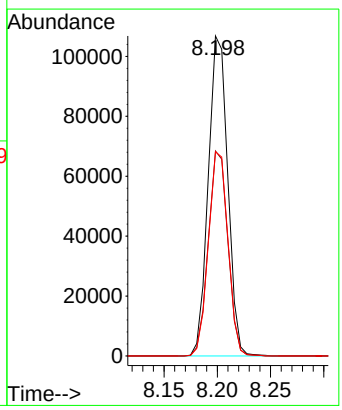


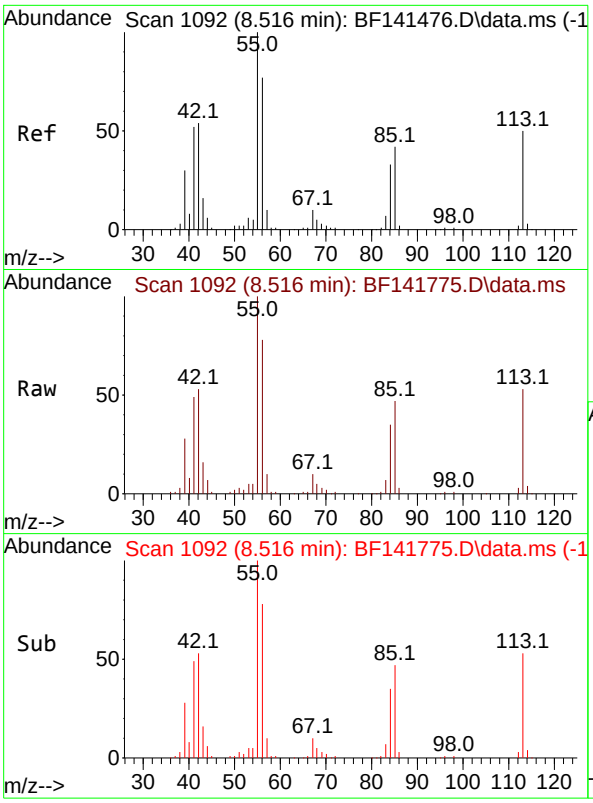


#34
Hexachlorobutadiene
Concen: 40.899 ng
RT: 8.198 min Scan# 1038
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:225 Resp: 135565

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.1	75.1
227	63.8	51.0	76.6



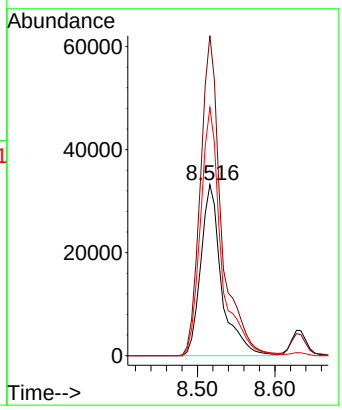


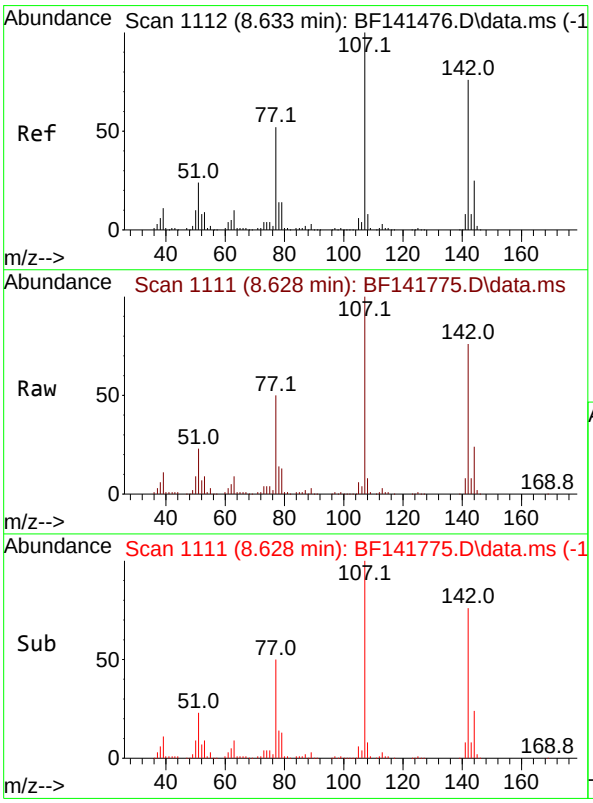
#35
Caprolactam
Concen: 40.218 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 62085

Ion	Ratio	Lower	Upper
113	100		
55	187.0	180.8	220.8
56	145.0	133.6	173.6

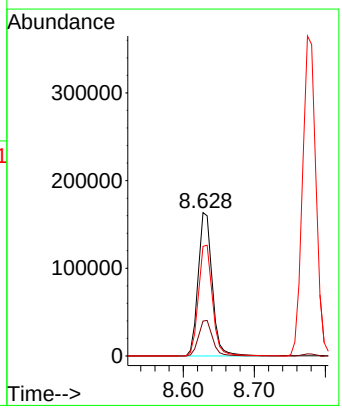


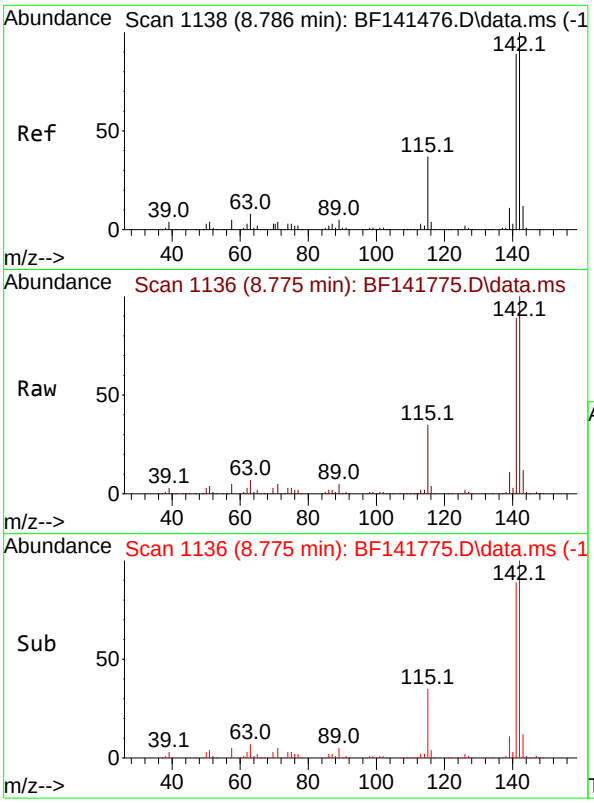


#36
4-Chloro-3-methylphenol
Concen: 40.227 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:107 Resp: 225929

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.7	29.5
142	76.4	60.8	91.2



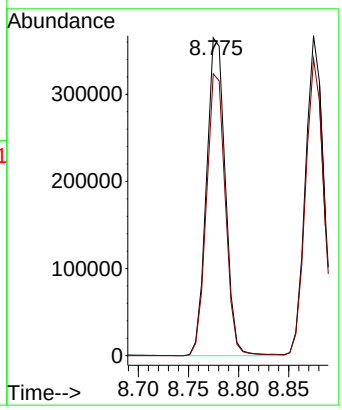


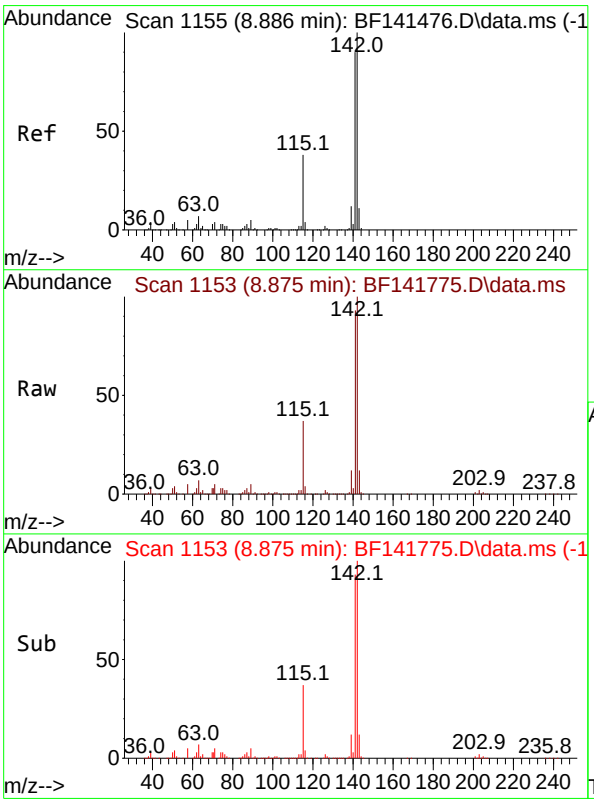
#37
2-Methylnaphthalene
Concen: 40.882 ng
RT: 8.775 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 478235

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.2	106.8

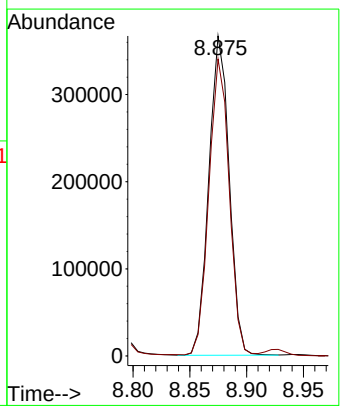


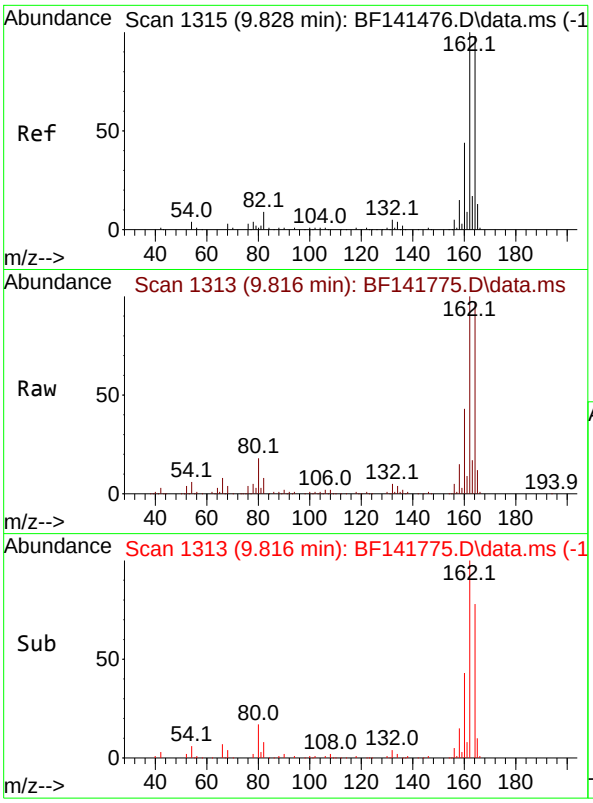


#38
1-Methylnaphthalene
Concen: 40.333 ng
RT: 8.875 min Scan# 1153
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:142 Resp: 456969

Ion	Ratio	Lower	Upper
142	100		
141	92.8	72.1	108.1



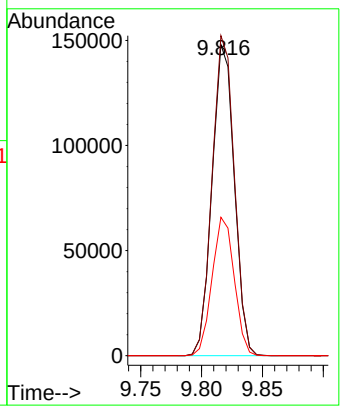


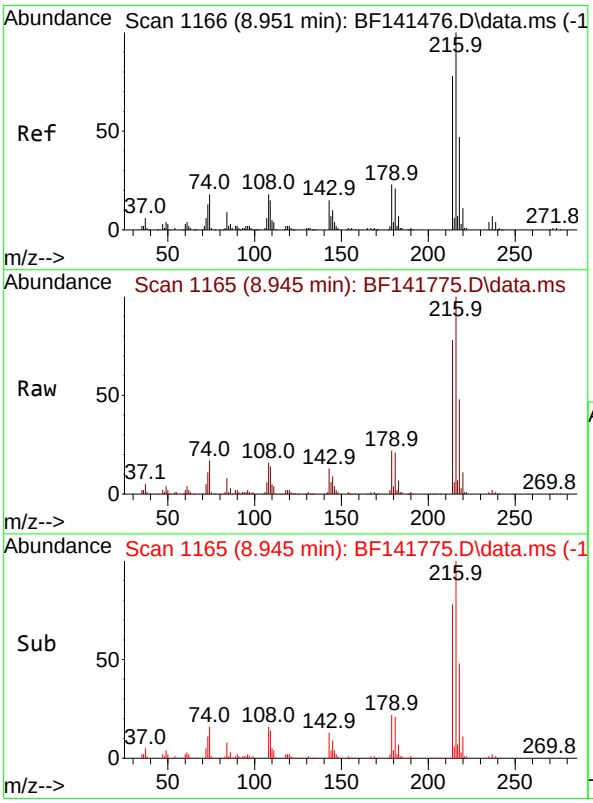
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 188350

Ion	Ratio	Lower	Upper
164	100		
162	102.9	81.3	121.9
160	44.5	35.9	53.9

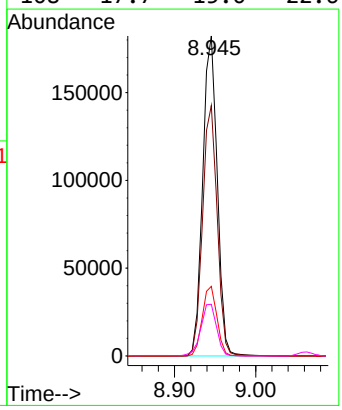


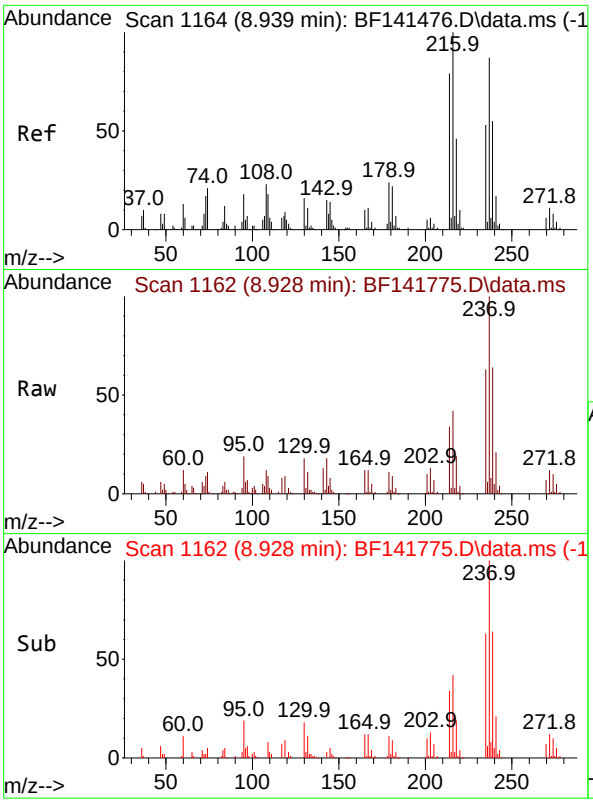


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.503 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:216 Resp: 226158

Ion	Ratio	Lower	Upper
216	100		
214	78.6	62.3	93.5
179	21.9	18.0	27.0
108	17.7	15.0	22.6



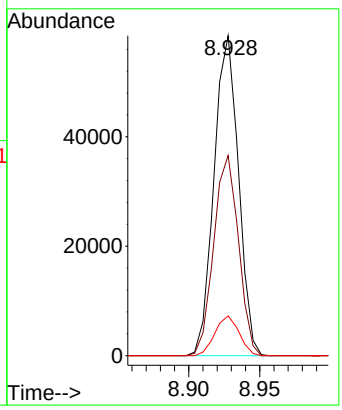


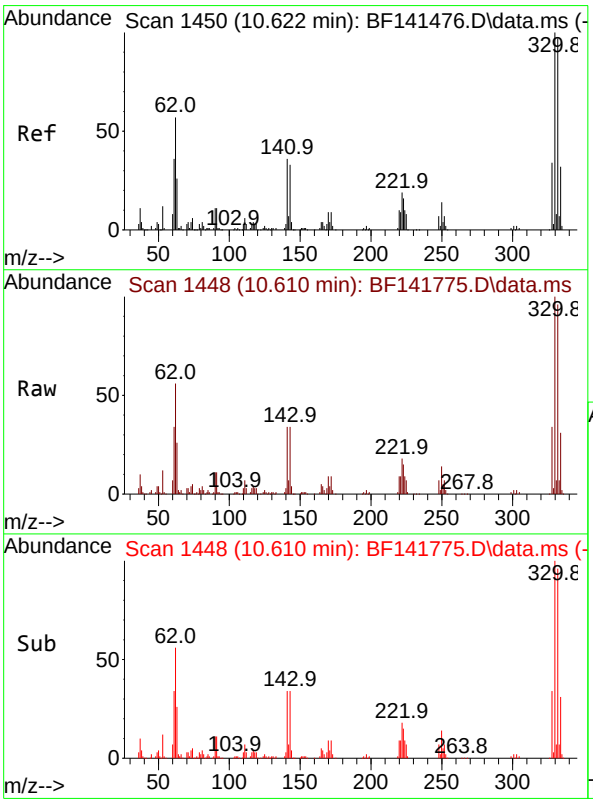
#41
Hexachlorocyclopentadiene
Concen: 38.631 ng
RT: 8.928 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 70017

Ion	Ratio	Lower	Upper
237	100		
235	62.5	41.4	81.4
272	12.4	0.0	32.4

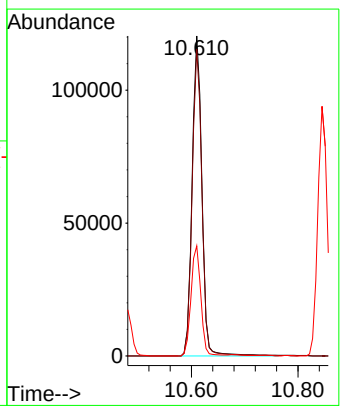


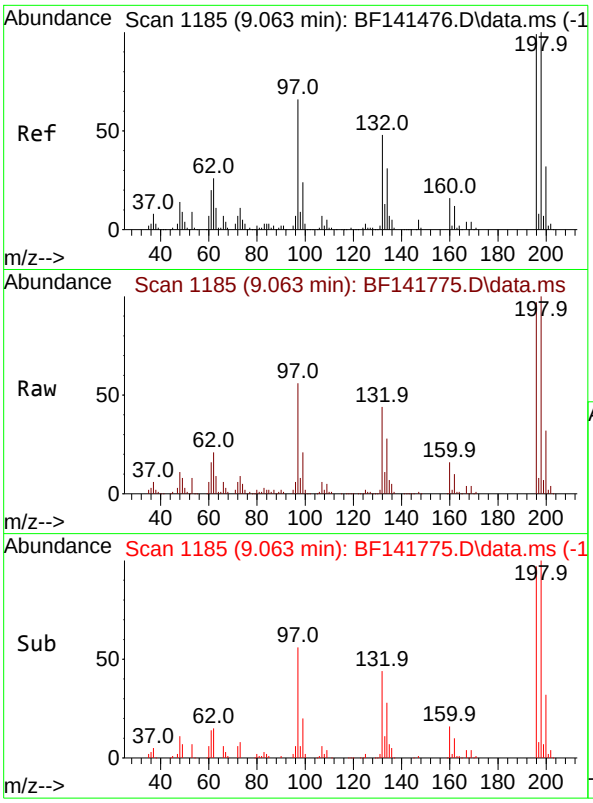


#42
2,4,6-Tribromophenol
Concen: 81.472 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:330 Resp: 154150

Ion	Ratio	Lower	Upper
330	100		
332	95.9	78.5	117.7
141	34.5	31.0	46.4



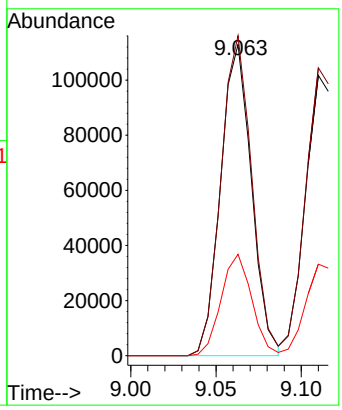


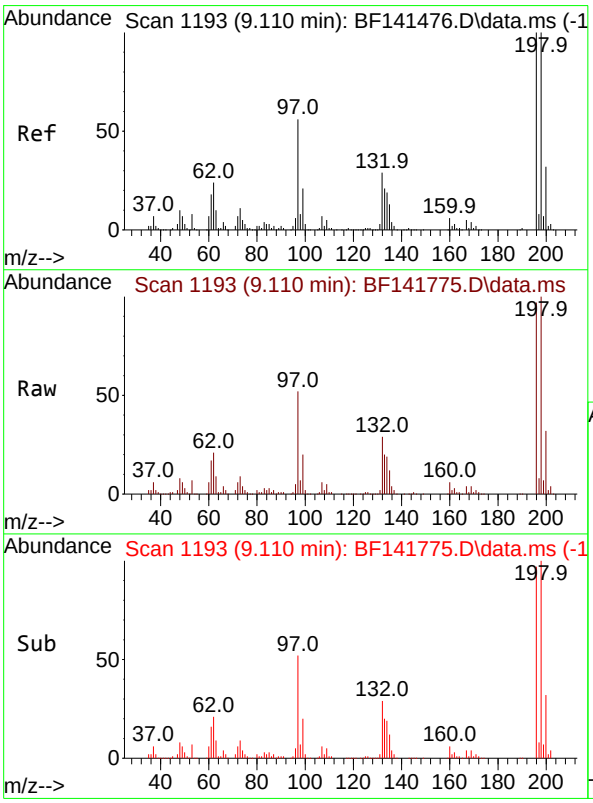
#43
2,4,6-Trichlorophenol
Concen: 40.392 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 142256

Ion	Ratio	Lower	Upper
196	100		
198	102.8	80.6	121.0
200	32.6	25.5	38.3

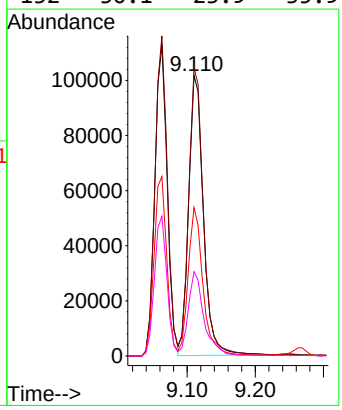


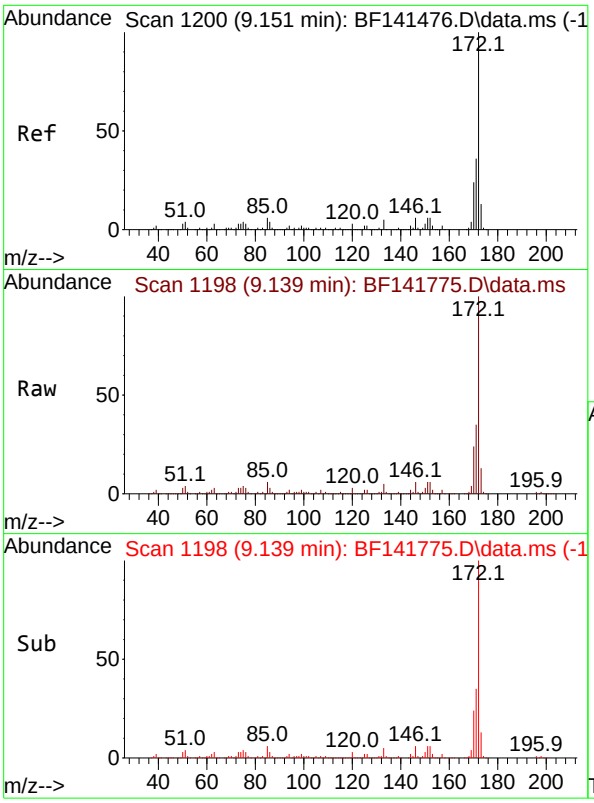


#44
2,4,5-Trichlorophenol
Concen: 39.917 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:196 Resp: 152360

Ion	Ratio	Lower	Upper
196	100		
198	102.7	79.8	119.8
97	52.9	44.8	67.2
132	30.1	23.9	35.9



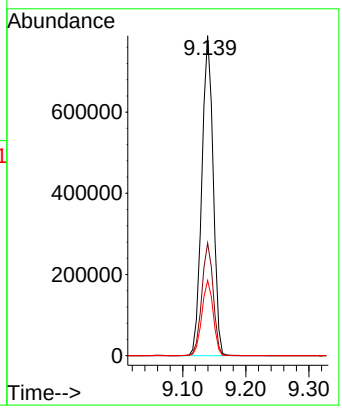


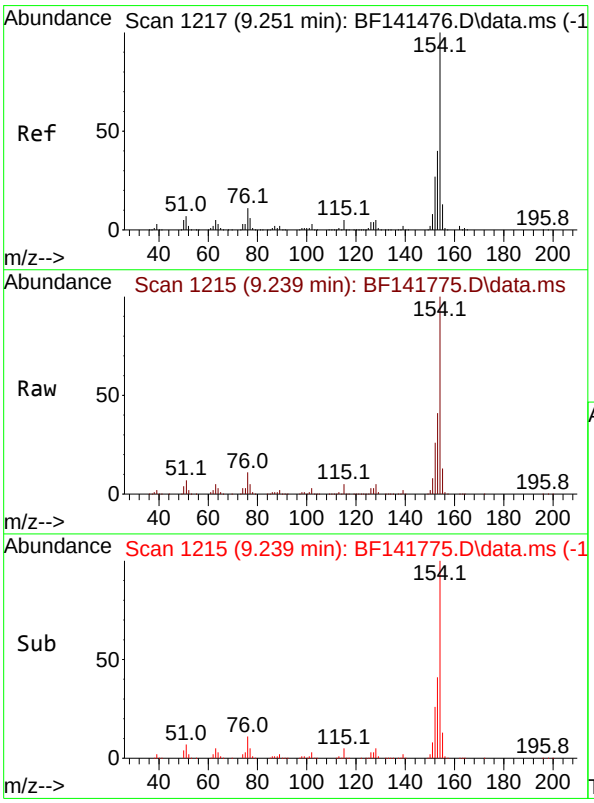
#45
2-Fluorobiphenyl
Concen: 80.803 ng
RT: 9.139 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 987847

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.7	43.1
170	23.5	18.9	28.3

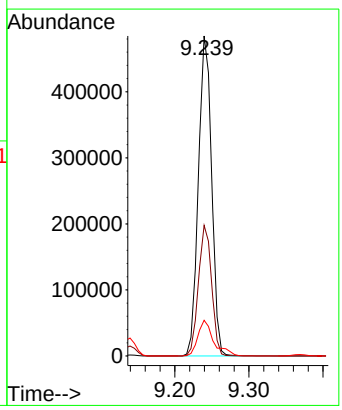


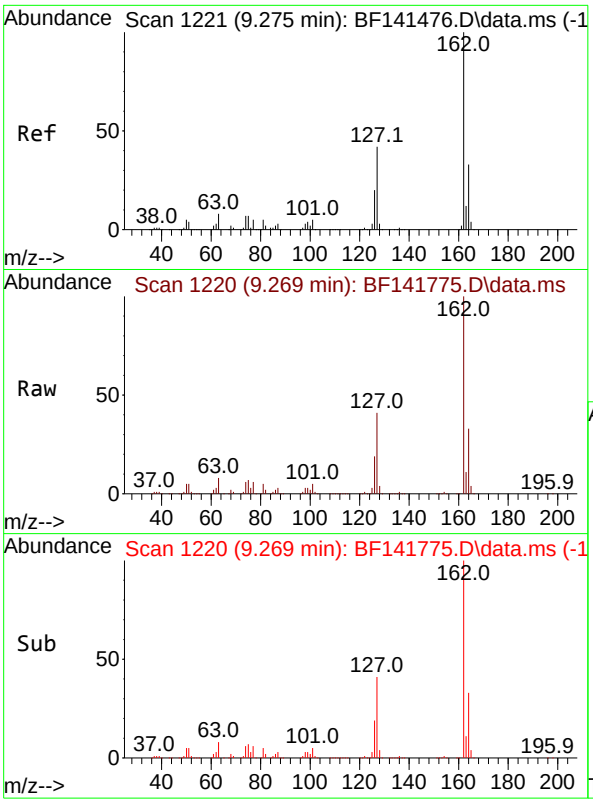


#46
1,1'-Biphenyl
Concen: 41.065 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:154 Resp: 599651

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.4	60.4
76	11.2	0.0	30.8



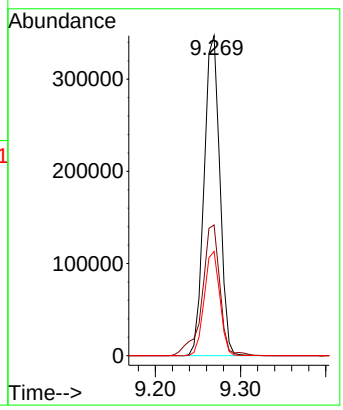


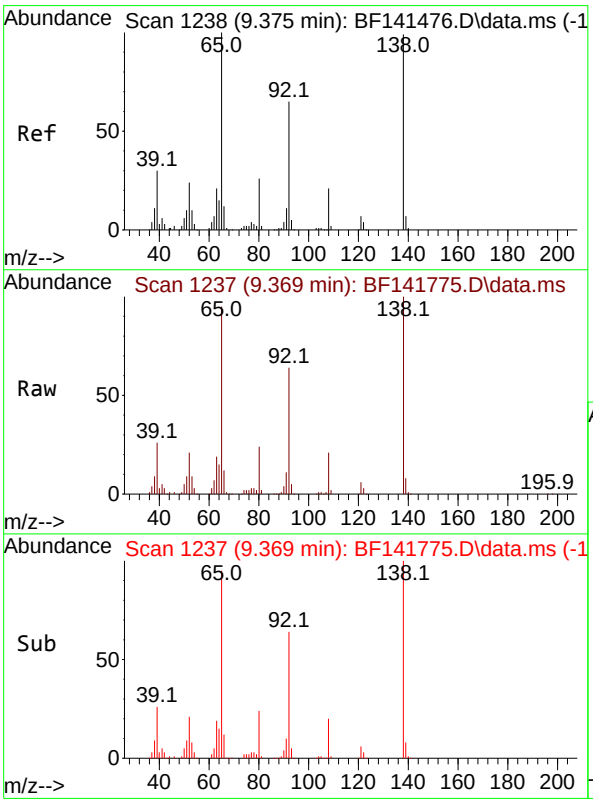
#47
2-Chloronaphthalene
Concen: 41.132 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 444145

Ion	Ratio	Lower	Upper
162	100		
127	40.8	34.1	51.1
164	32.5	26.3	39.5

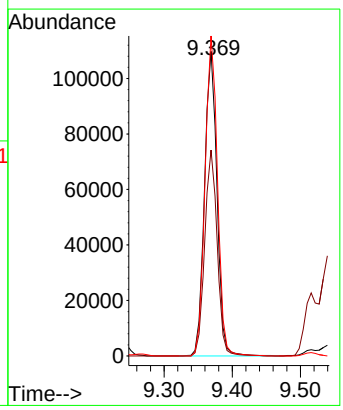


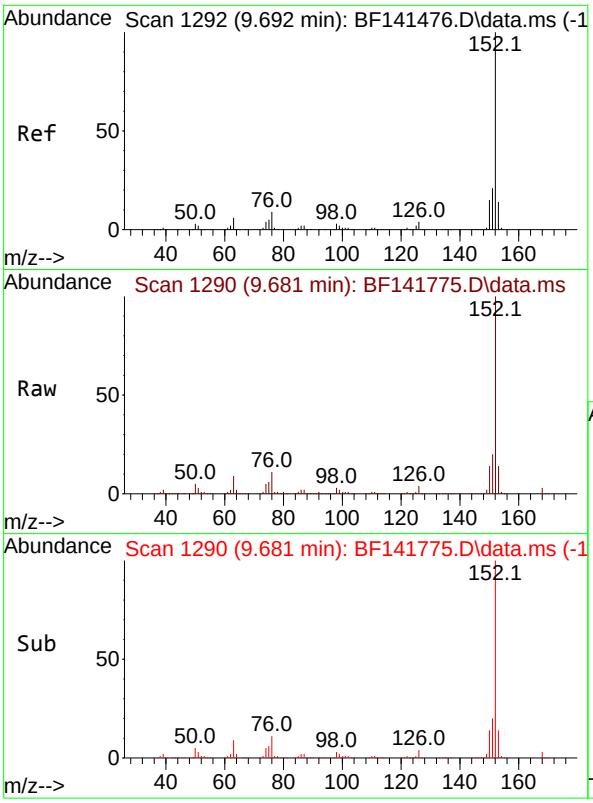


#48
2-Nitroaniline
Concen: 38.554 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion: 65 Resp: 139713

Ion	Ratio	Lower	Upper
65	100		
92	67.6	52.2	78.2
138	105.1	79.5	119.3



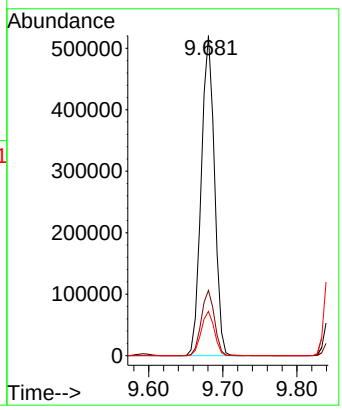


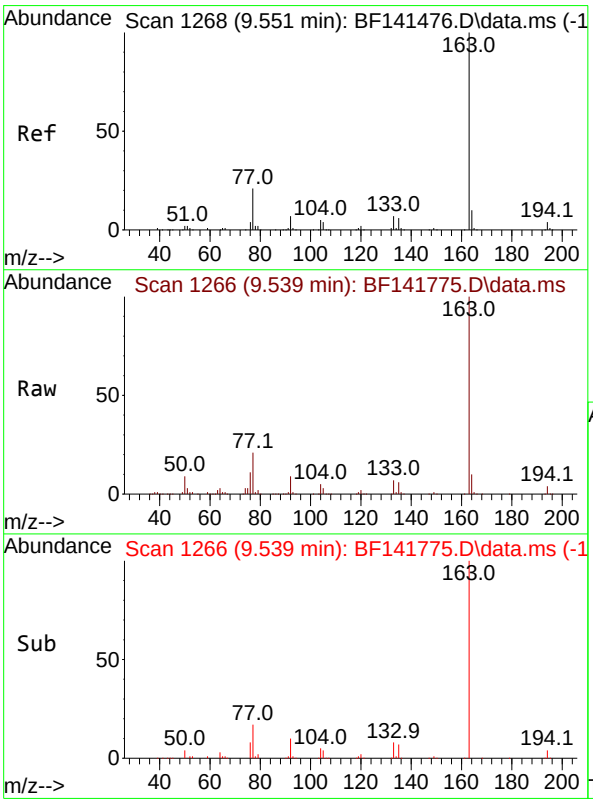
#49
Acenaphthylene
Concen: 40.243 ng
RT: 9.681 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 646345

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.4	24.6
153	13.9	10.9	16.3

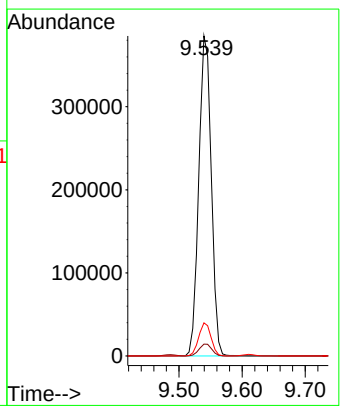


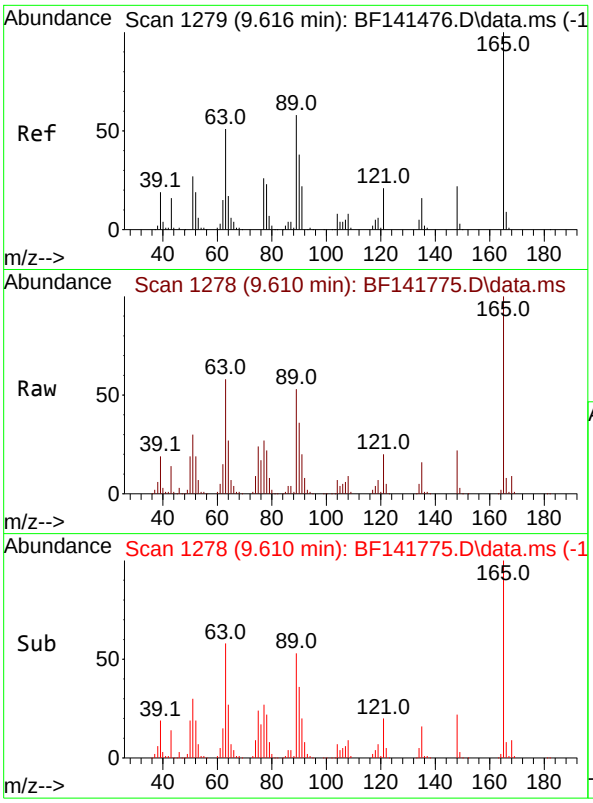


#50
Dimethylphthalate
Concen: 41.369 ng
RT: 9.539 min Scan# 1266
Delta R.T. -0.023 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:163 Resp: 528963

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.4
164	10.3	7.9	11.9



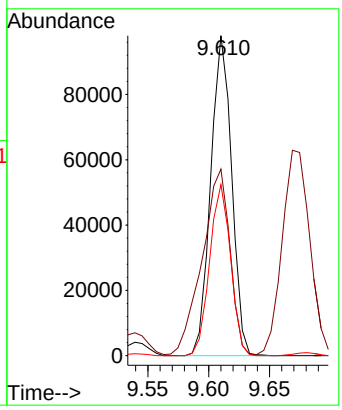


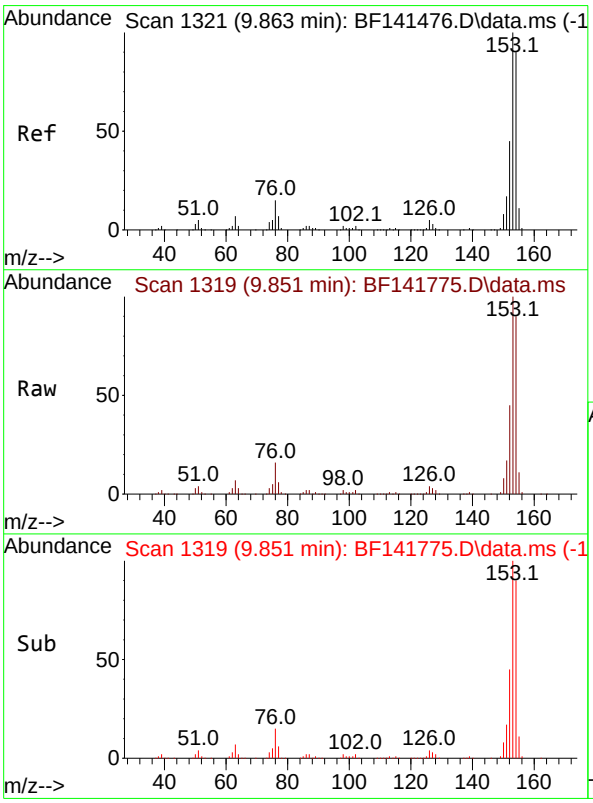
#51
2,6-Dinitrotoluene
Concen: 41.931 ng
RT: 9.610 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 117206

Ion	Ratio	Lower	Upper
165	100		
63	58.3	49.4	74.0
89	53.4	46.5	69.7

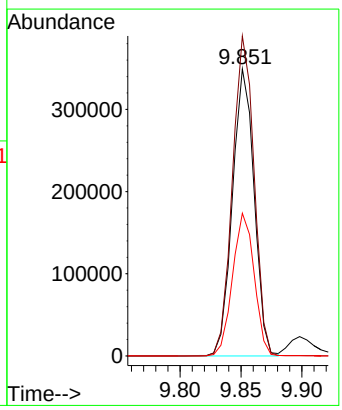


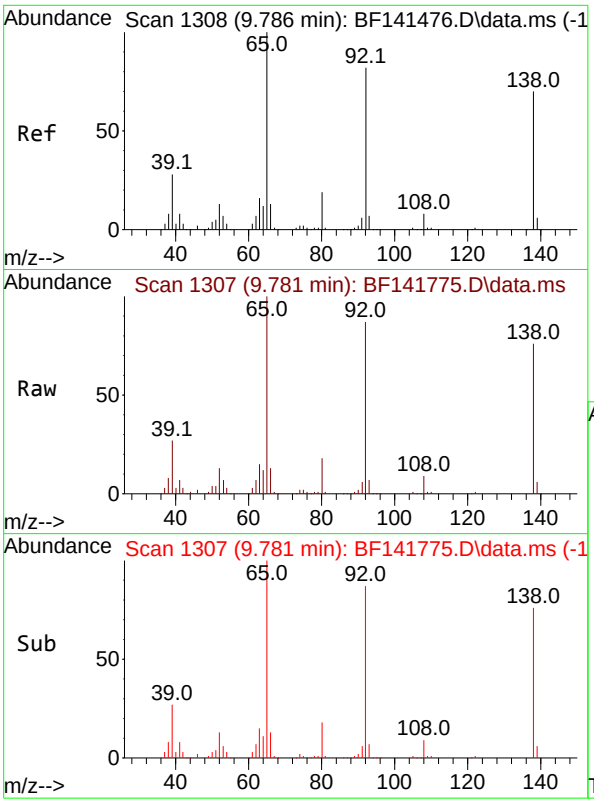


#52
Acenaphthene
Concen: 40.039 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:154 Resp: 432327

Ion	Ratio	Lower	Upper
154	100		
153	111.5	89.2	133.8
152	49.7	39.8	59.8



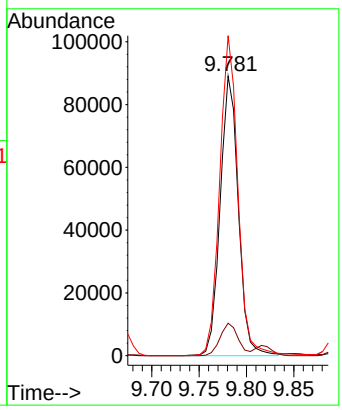


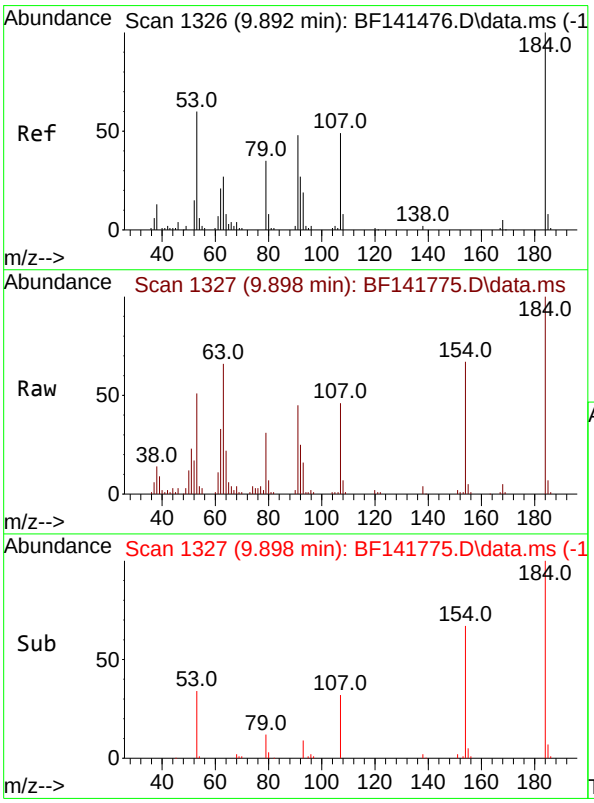
#53
3-Nitroaniline
Concen: 39.520 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 118897

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.0	13.4
92	114.5	93.7	140.5

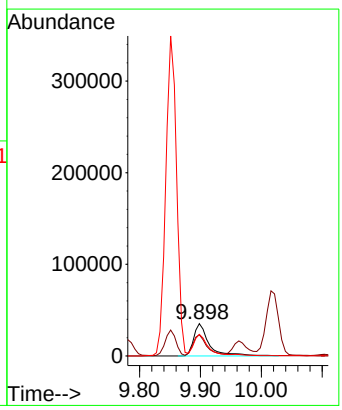


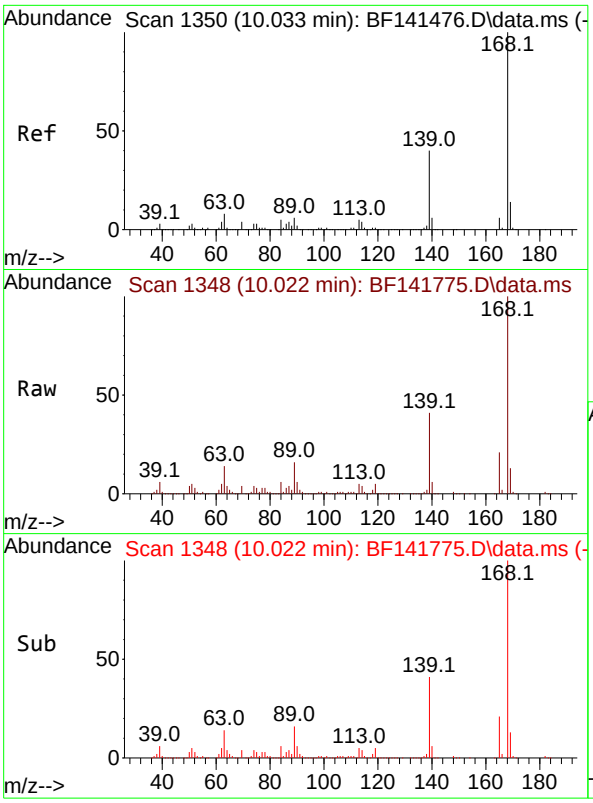


#54
2,4-Dinitrophenol
Concen: 37.317 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:184 Resp: 61995

Ion	Ratio	Lower	Upper
184	100		
63	65.6	61.0	91.6
154	66.7	59.9	89.9



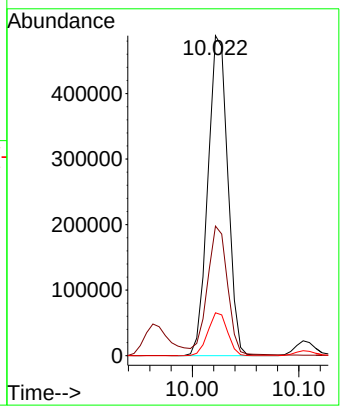


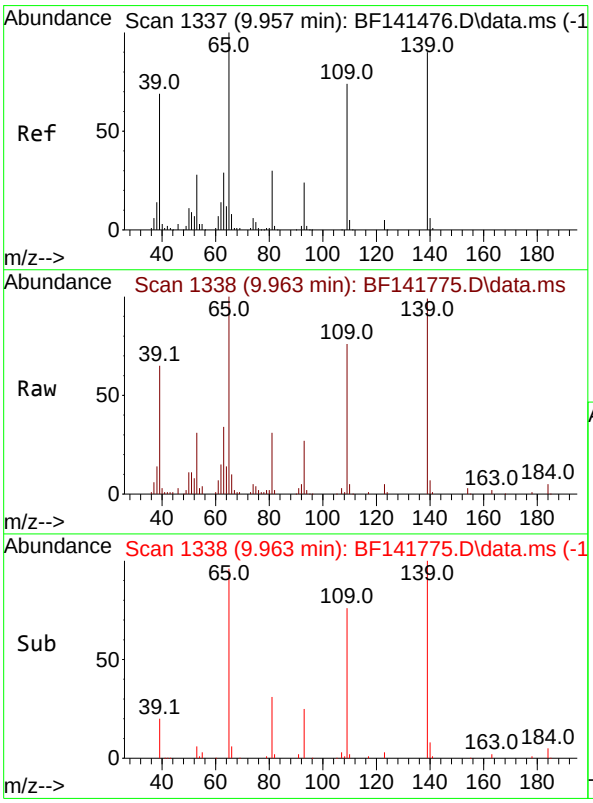
#55
Dibenzofuran
Concen: 39.995 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 633880

Ion	Ratio	Lower	Upper
168	100		
139	40.5	32.7	49.1
169	13.4	10.8	16.2

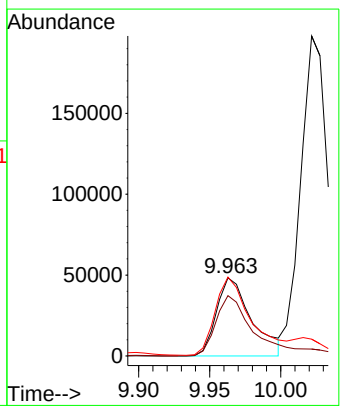


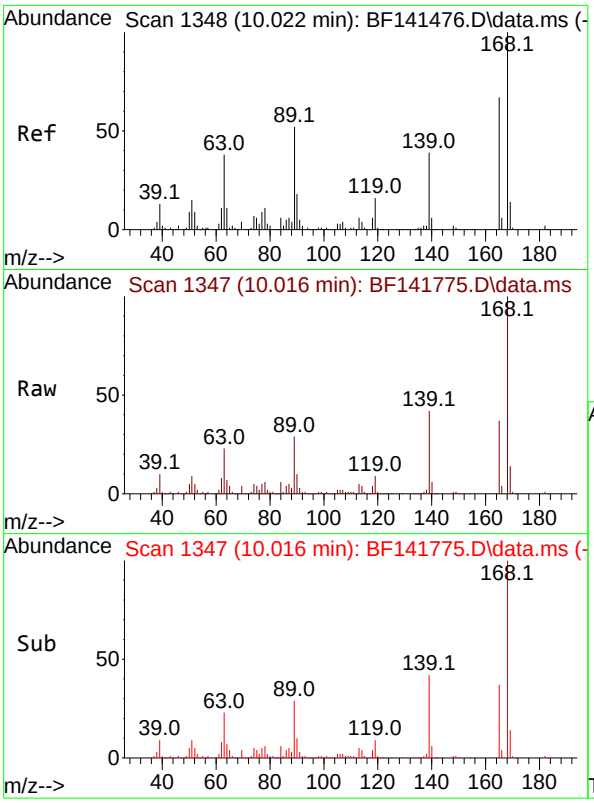


#56
4-Nitrophenol
Concen: 37.082 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:139 Resp: 82815

Ion	Ratio	Lower	Upper
139	100		
109	77.2	62.0	102.0
65	101.0	91.2	131.2



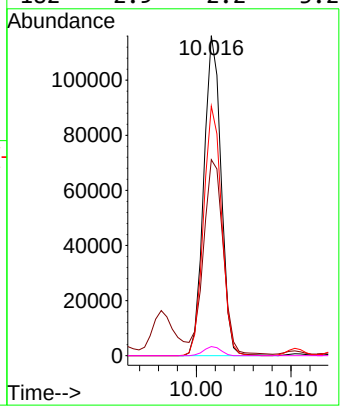


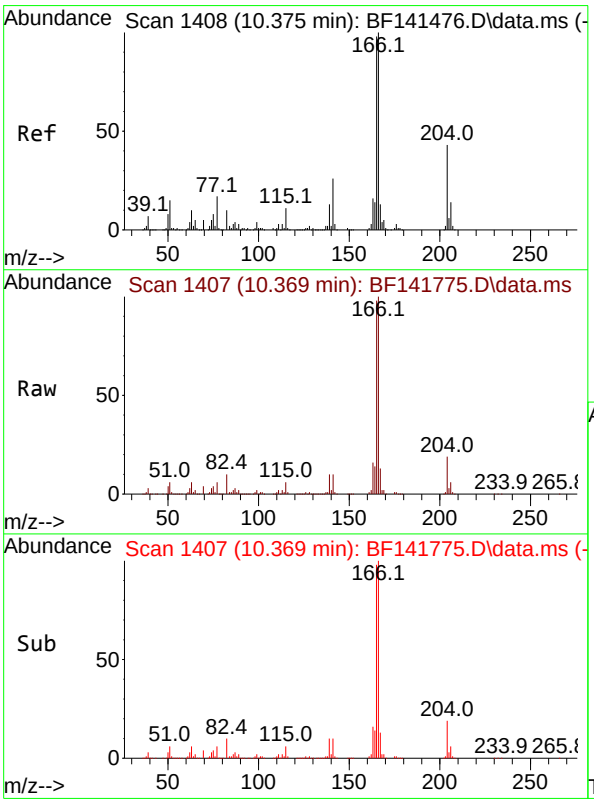
#57
2,4-Dinitrotoluene
Concen: 39.692 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 147701

Ion	Ratio	Lower	Upper
165	100		
63	61.3	46.4	69.6
89	78.0	61.8	92.6
182	2.9	2.2	3.2

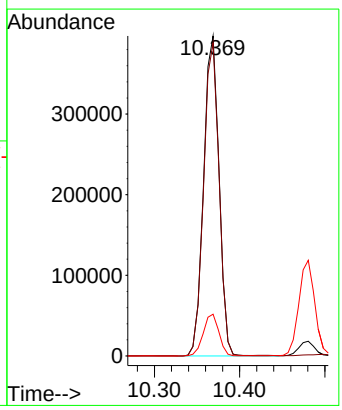


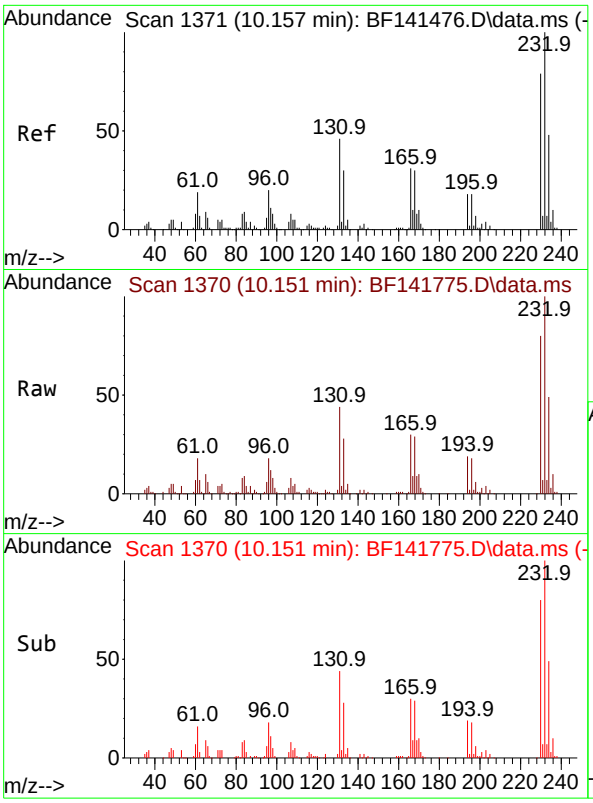


#58
Fluorene
Concen: 40.745 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:166 Resp: 499306

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.2	117.2
167	13.1	10.7	16.1



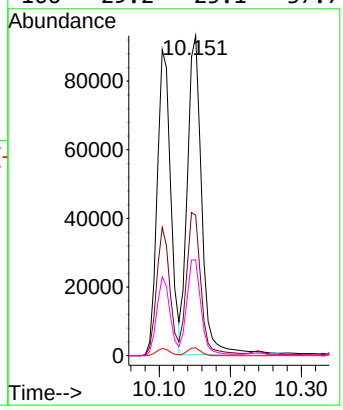


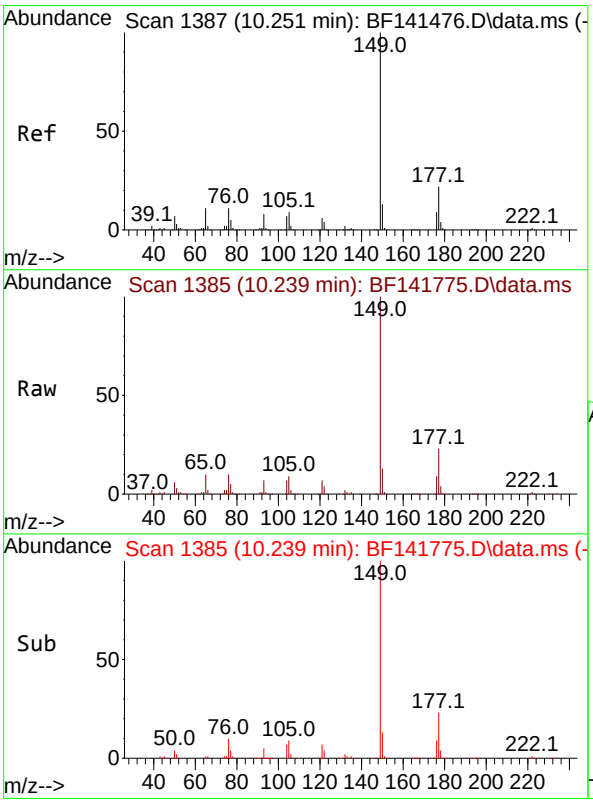
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.503 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 129813

Ion	Ratio	Lower	Upper
232	100		
131	45.1	39.2	58.8
130	2.3	2.1	3.1
166	29.2	25.1	37.7

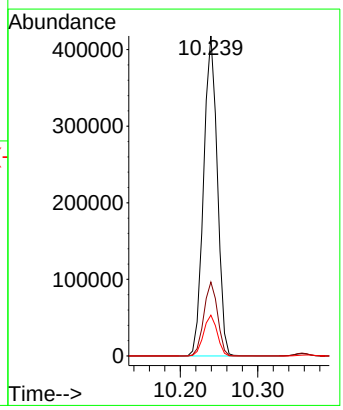


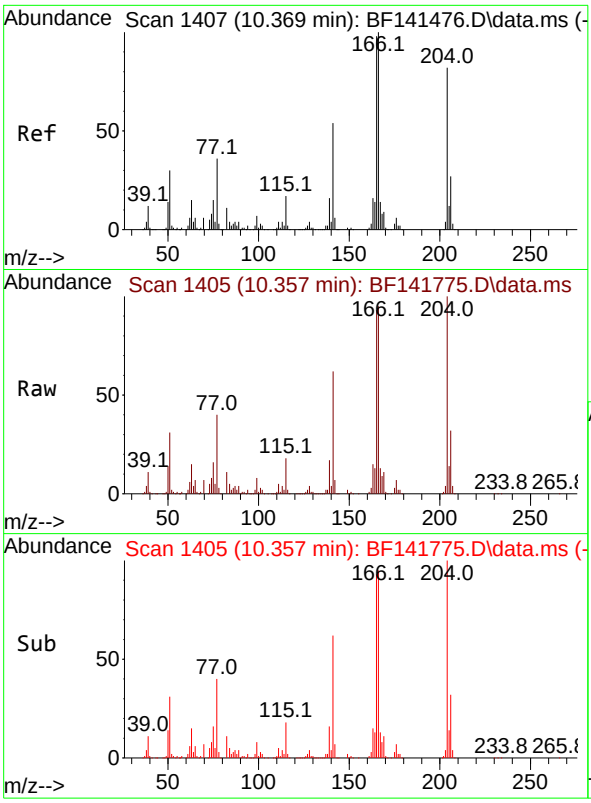


#60
Diethylphthalate
Concen: 40.773 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:149 Resp: 512946

Ion	Ratio	Lower	Upper
149	100		
177	23.1	17.8	26.6
150	12.8	10.1	15.1



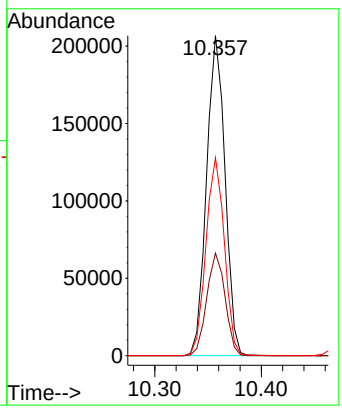


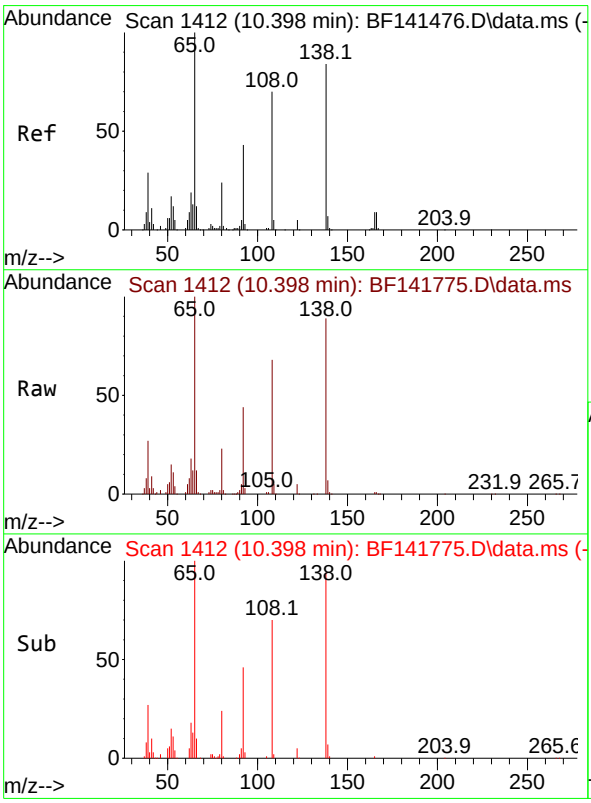
#61
4-Chlorophenyl-phenylether
Concen: 42.168 ng
RT: 10.357 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 248595

Ion	Ratio	Lower	Upper
204	100		
206	32.0	26.6	40.0
141	61.9	51.9	77.9

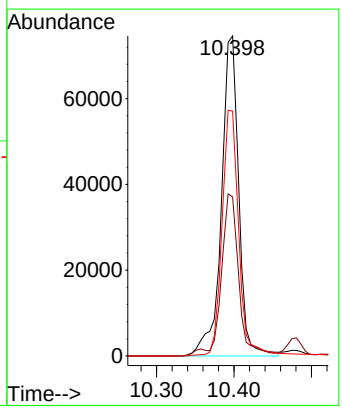


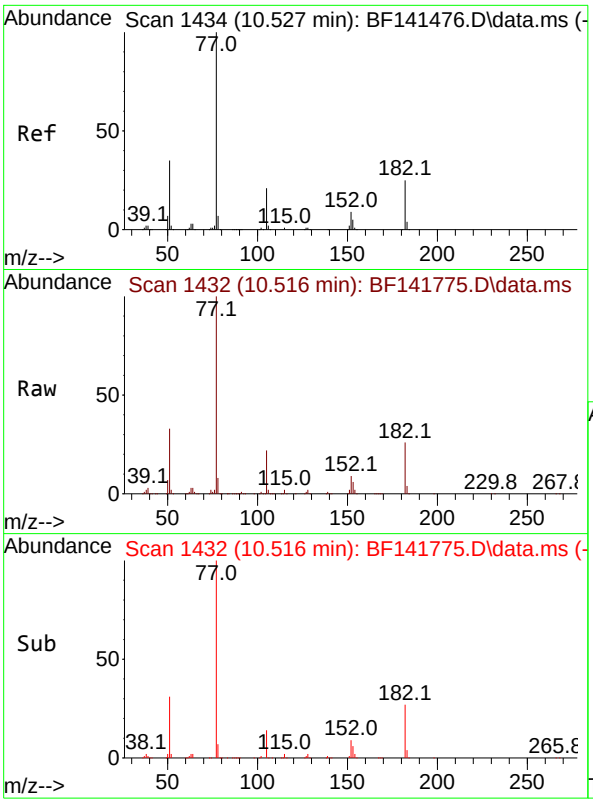


#62
4-Nitroaniline
Concen: 38.000 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:138 Resp: 116085

Ion	Ratio	Lower	Upper
138	100		
92	49.7	31.3	71.3
108	76.5	63.7	103.7



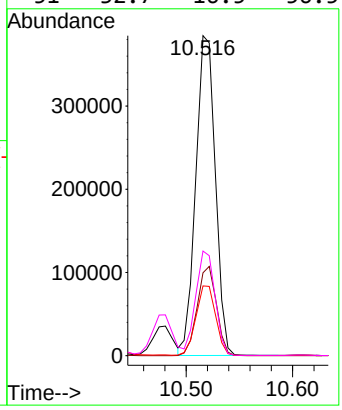


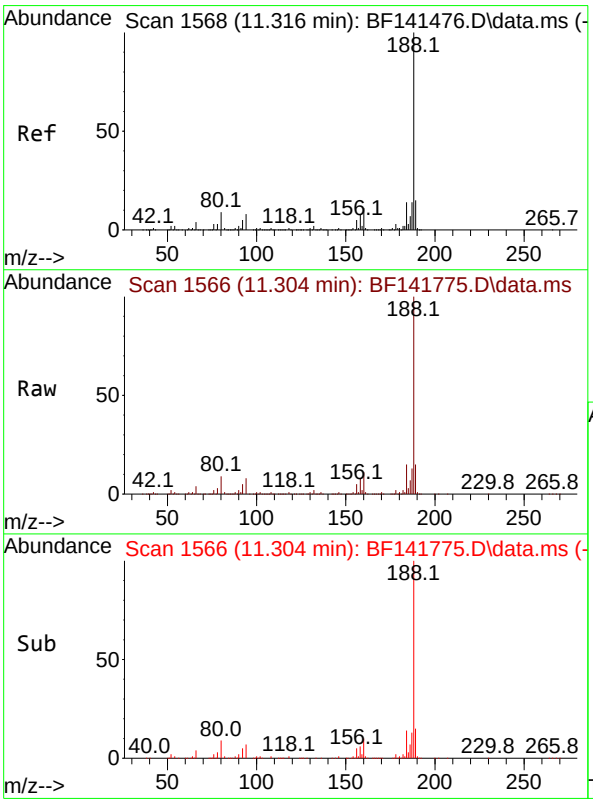
#63
Azobenzene
Concen: 39.399 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 492750

Ion	Ratio	Lower	Upper
77	100		
182	25.9	4.7	44.7
105	21.8	0.4	40.4
51	32.7	16.5	56.5

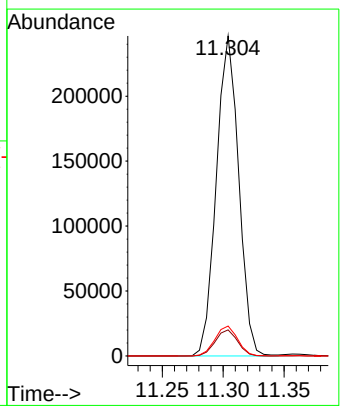


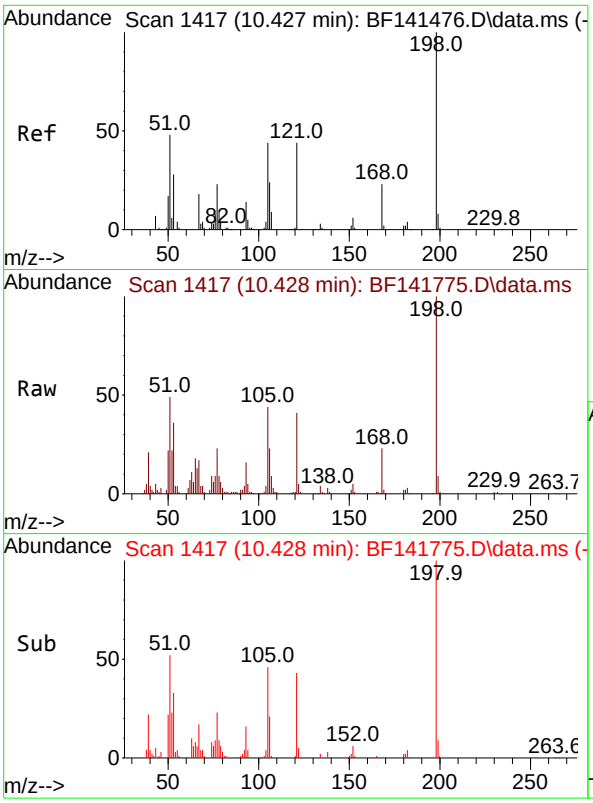


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:188 Resp: 315416

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.6	10.0
80	9.4	7.3	10.9



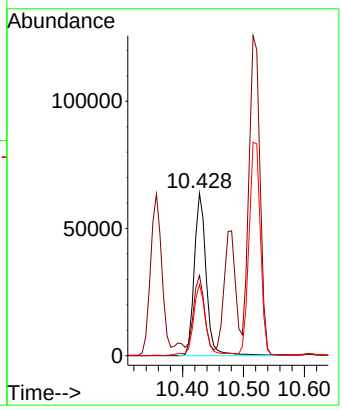


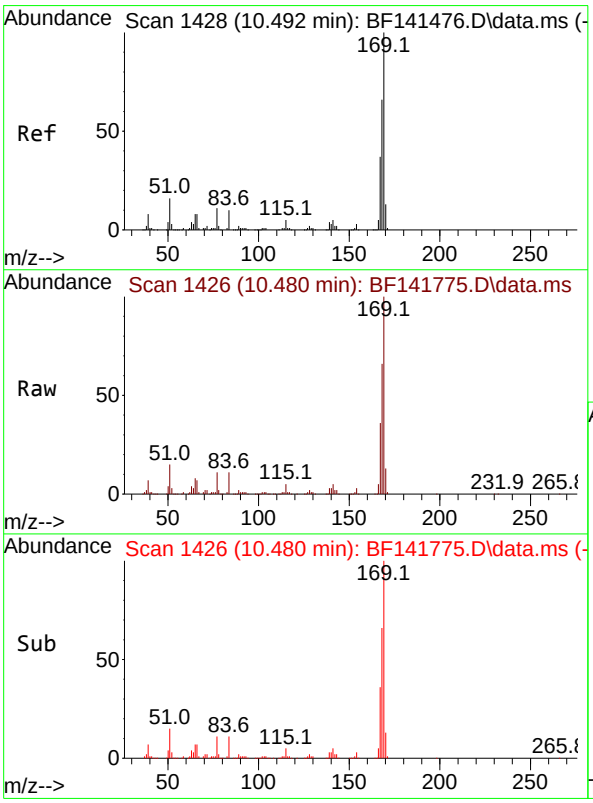
#65
4,6-Dinitro-2-methylphenol
Concen: 39.684 ng
RT: 10.428 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 86949

Ion	Ratio	Lower	Upper
198	100		
51	49.4	37.4	77.4
105	43.9	25.2	65.2

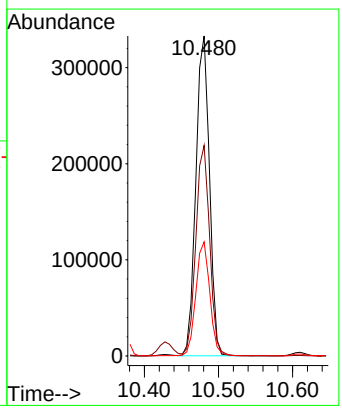


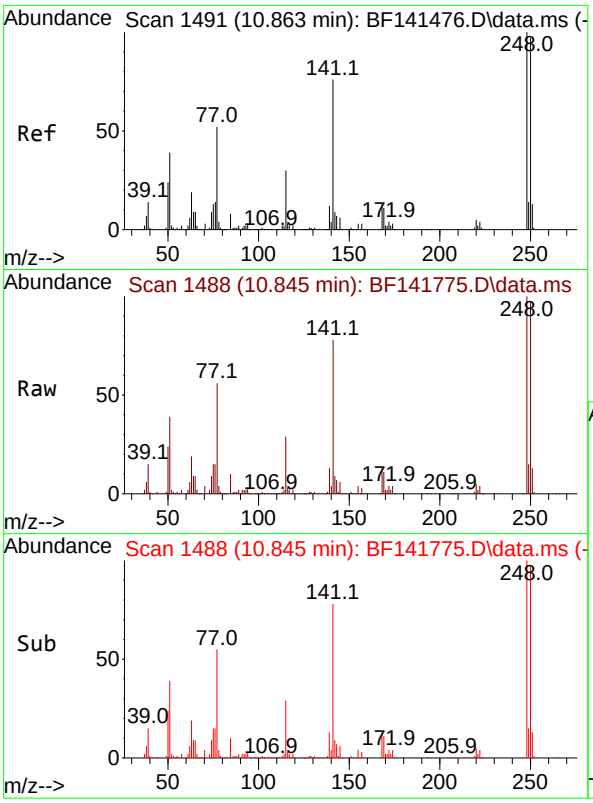


#66
n-Nitrosodiphenylamine
Concen: 41.817 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:169 Resp: 422215

Ion	Ratio	Lower	Upper
169	100		
168	65.8	53.3	79.9
167	35.7	29.4	44.2



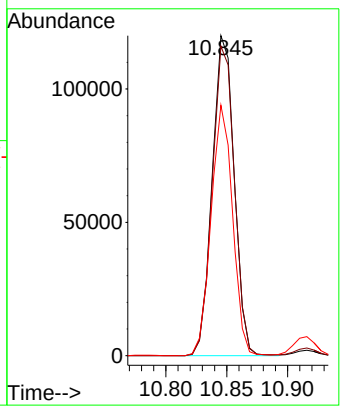


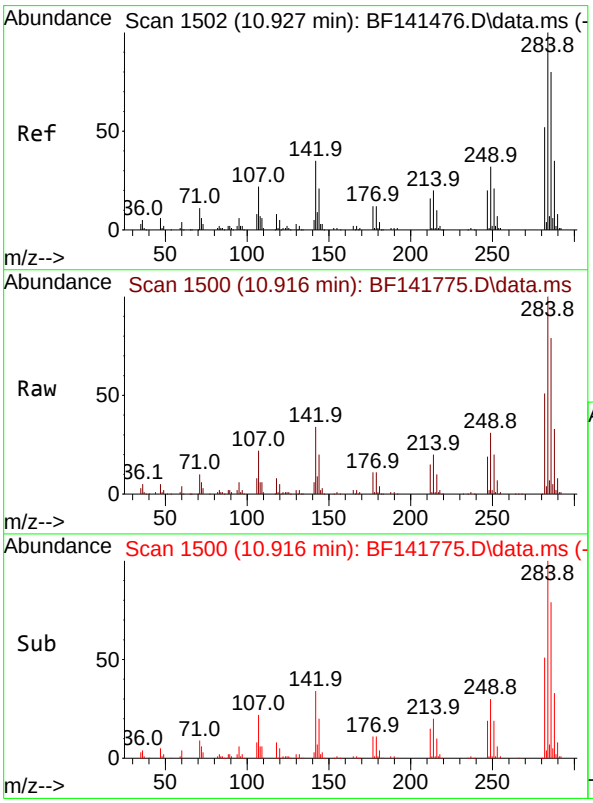
#67
4-Bromophenyl-phenylether
Concen: 42.834 ng
RT: 10.845 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 150998

Ion	Ratio	Lower	Upper
248	100		
250	96.7	77.8	116.6
141	78.3	60.6	90.8

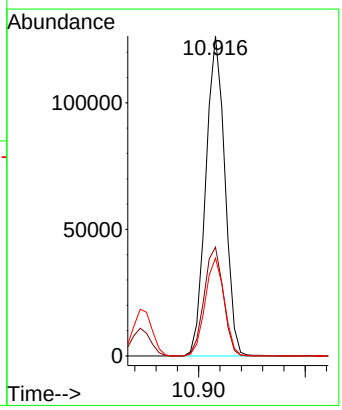


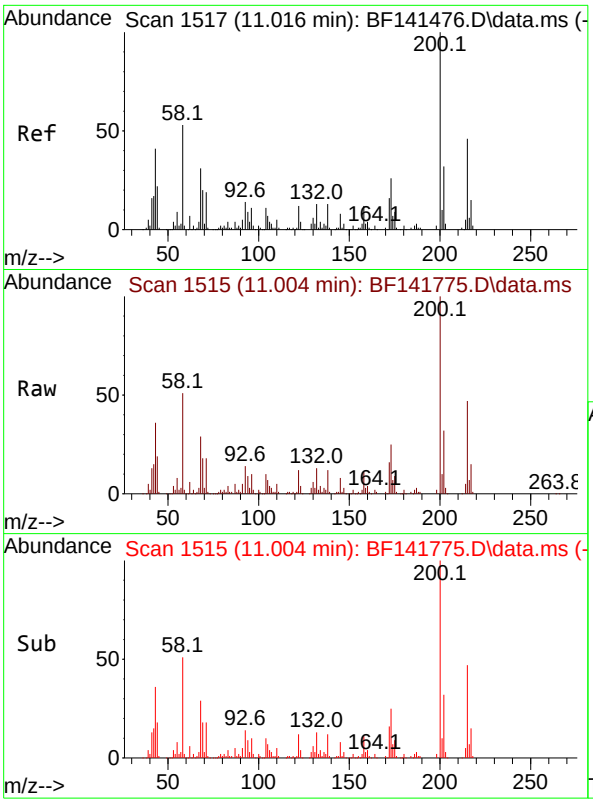


#68
Hexachlorobenzene
Concen: 43.146 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:284 Resp: 156619

Ion	Ratio	Lower	Upper
284	100		
142	34.0	28.0	42.0
249	30.6	25.8	38.8



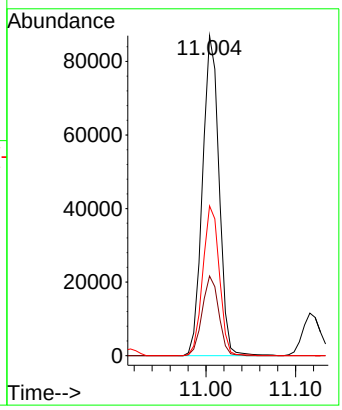


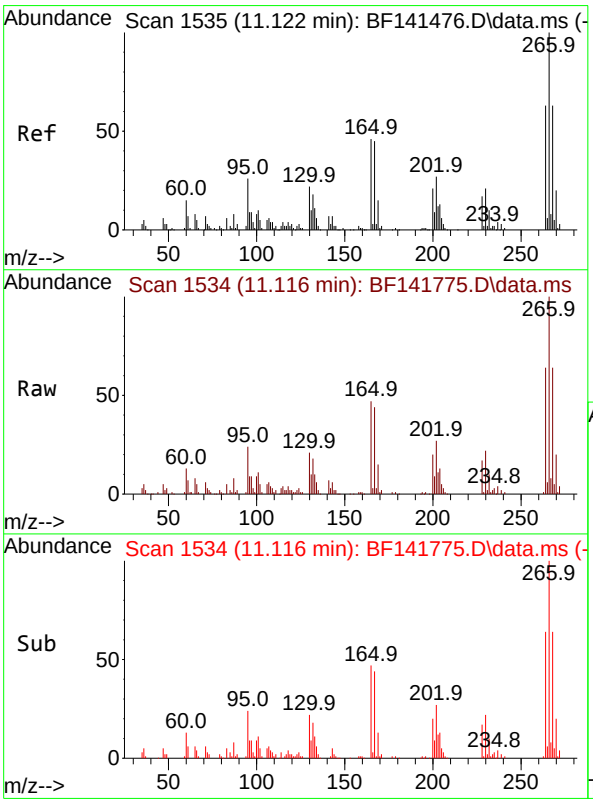
#69
Atrazine
Concen: 36.750 ng
RT: 11.004 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 111316

Ion	Ratio	Lower	Upper
200	100		
173	24.9	5.9	45.9
215	46.8	25.9	65.9

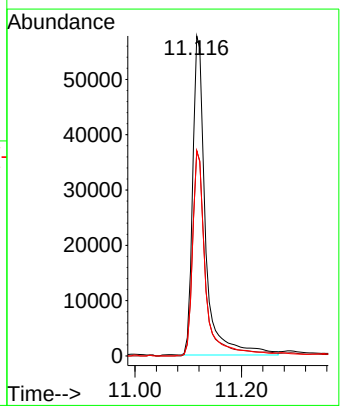


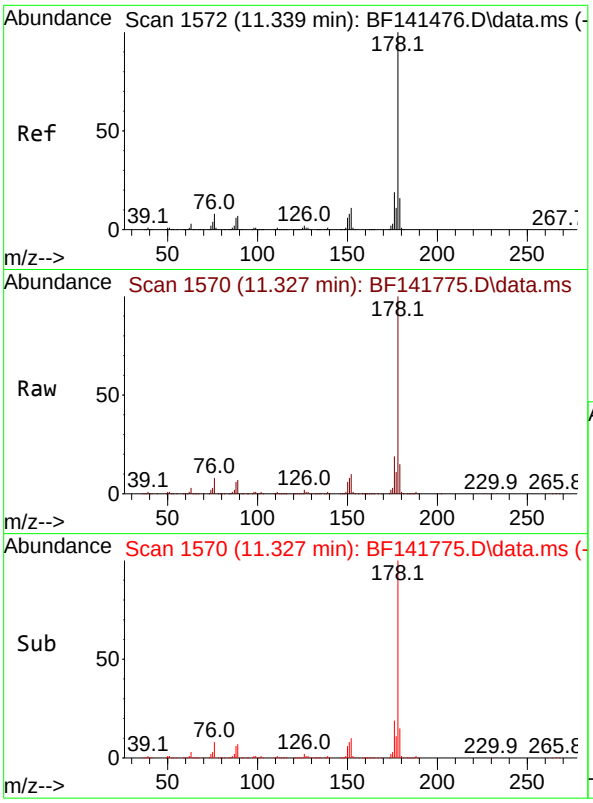


#70
Pentachlorophenol
Concen: 41.789 ng
RT: 11.116 min Scan# 1534
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:266 Resp: 96995

Ion	Ratio	Lower	Upper
266	100		
268	64.0	50.1	75.1
264	64.1	50.1	75.1



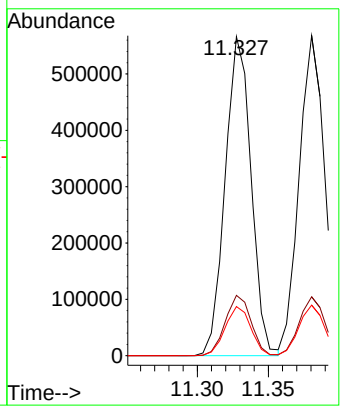


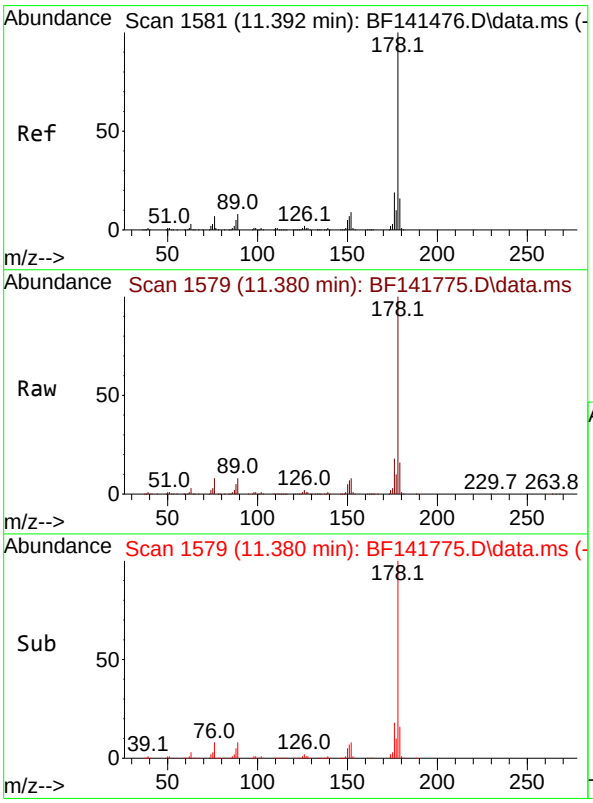
#71
Phenanthrene
Concen: 41.360 ng
RT: 11.327 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 718095

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.4	12.4	18.6

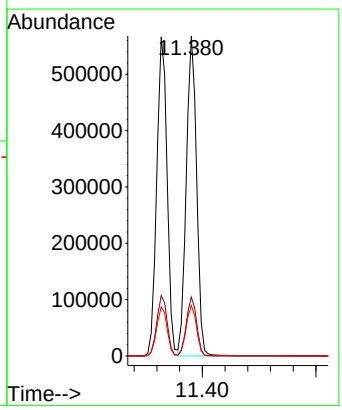


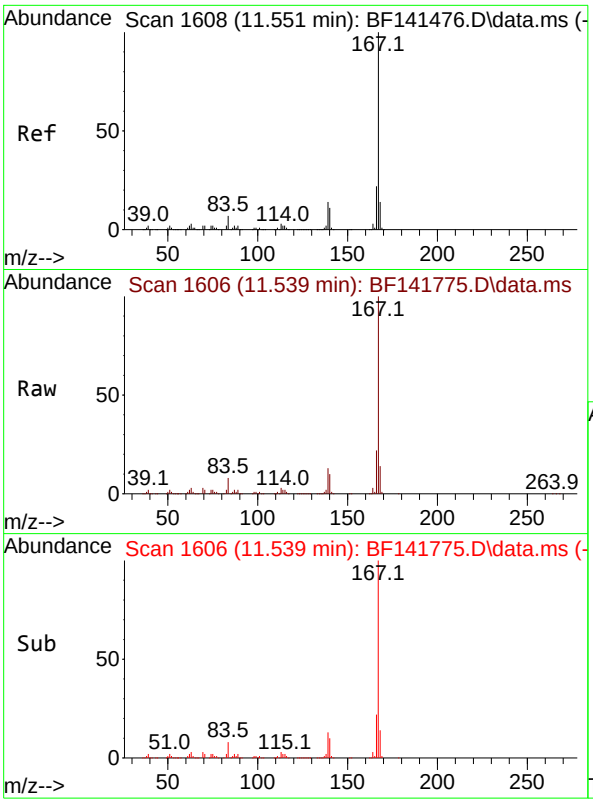


#72
Anthracene
Concen: 41.033 ng
RT: 11.380 min Scan# 1579
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:178 Resp: 716154

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.8	22.2
179	15.8	12.4	18.6



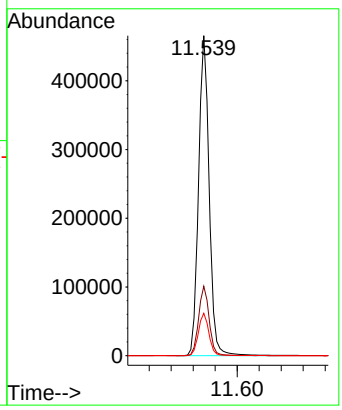


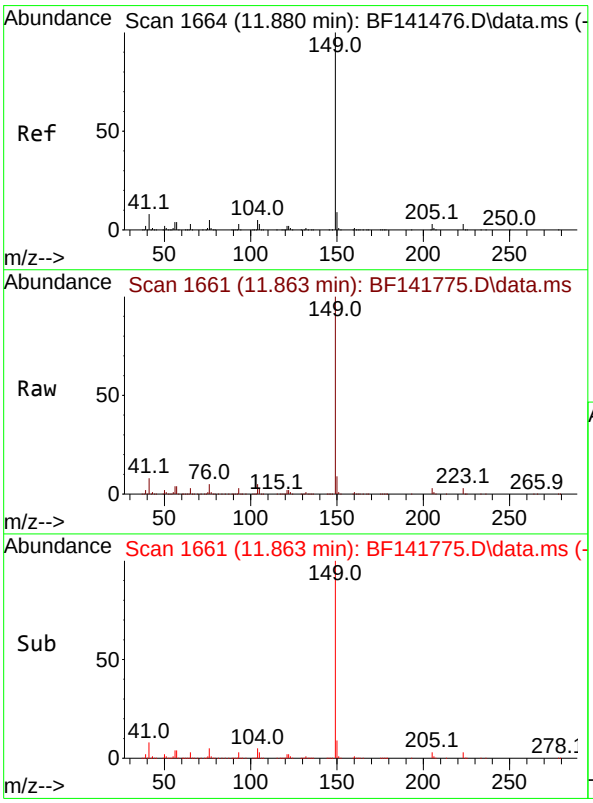
#73
Carbazole
Concen: 39.813 ng
RT: 11.539 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 625228

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.4	26.2
139	13.3	10.9	16.3

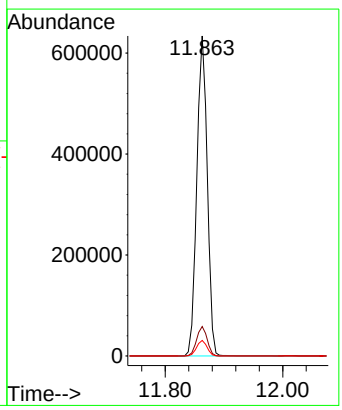


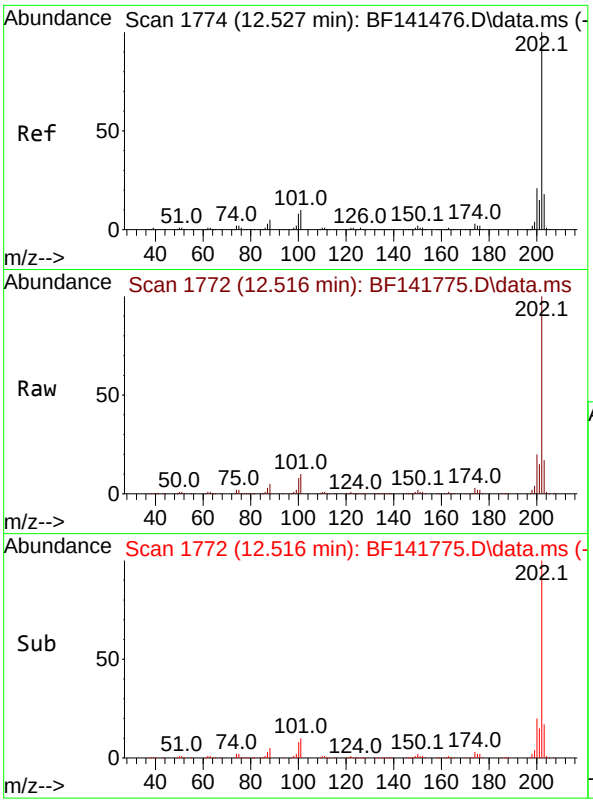


#74
Di-n-butylphthalate
Concen: 43.146 ng
RT: 11.863 min Scan# 1661
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:149 Resp: 782379

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	4.8	4.2	6.2



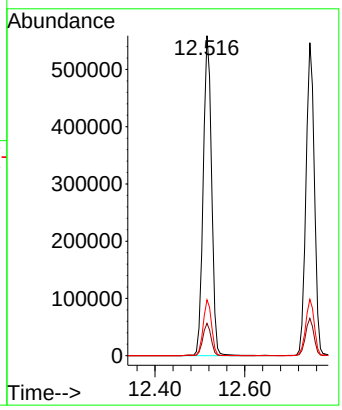


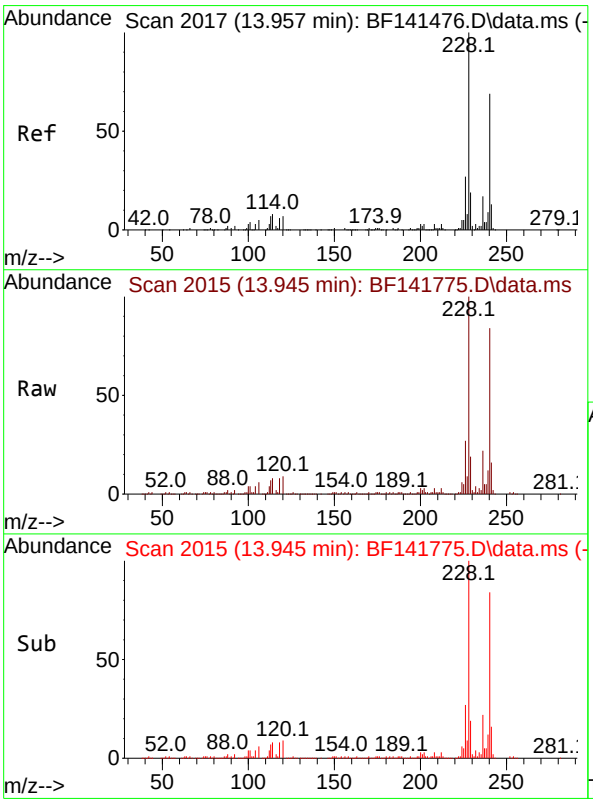
#75
Fluoranthene
Concen: 39.327 ng
RT: 12.516 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 723900

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.4	0.0	37.6

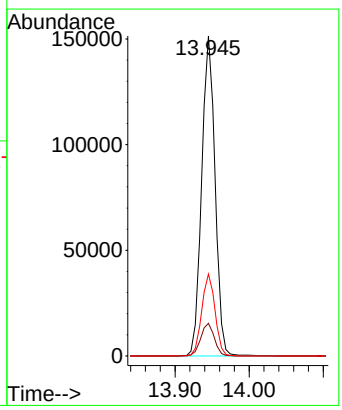


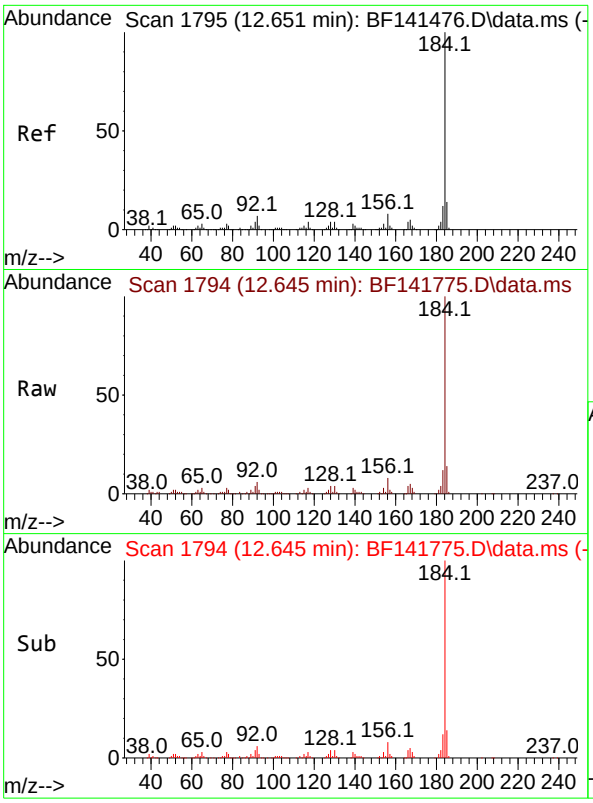


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:240 Resp: 190171

Ion	Ratio	Lower	Upper
240	100		
120	10.2	8.0	12.0
236	25.6	19.8	29.8



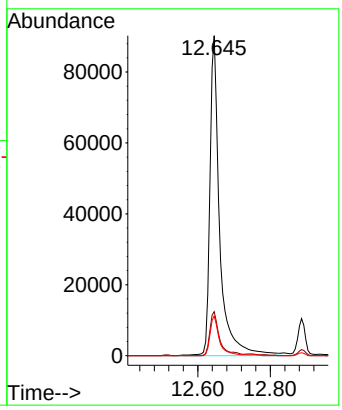


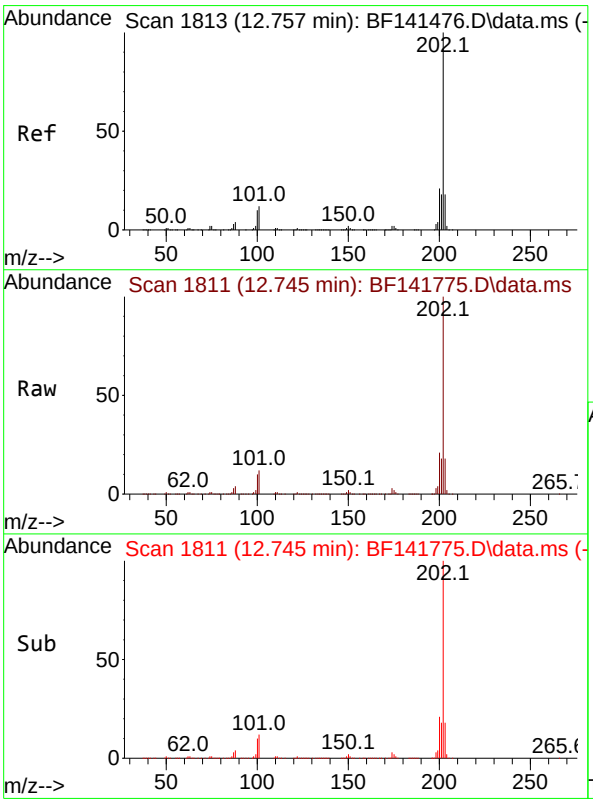
#77
Benzidine
Concen: 40.405 ng
RT: 12.645 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 169464

Ion	Ratio	Lower	Upper
184	100		
185	13.8	11.3	16.9
183	12.4	9.3	13.9

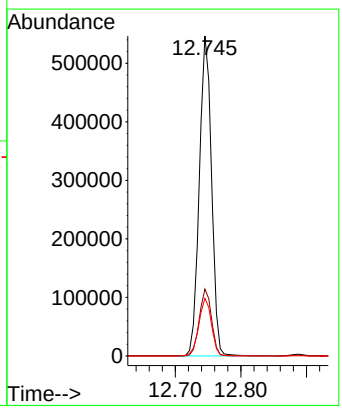


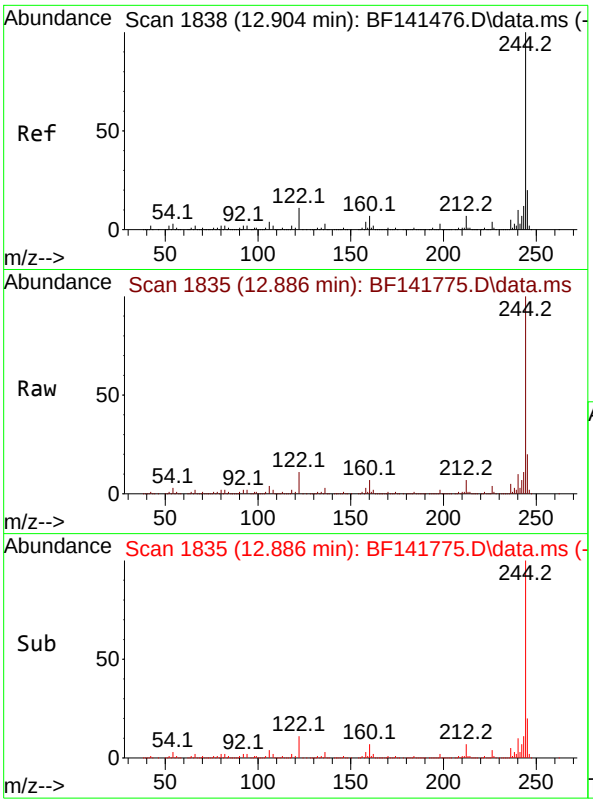


#78
Pyrene
Concen: 43.860 ng
RT: 12.745 min Scan# 1811
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:202 Resp: 710043

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	18.0	14.3	21.5



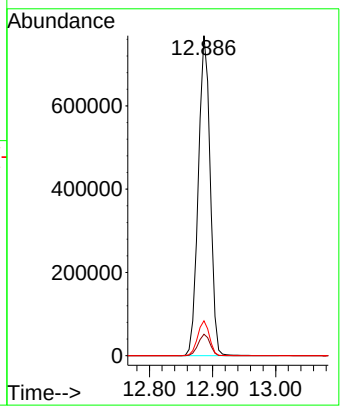


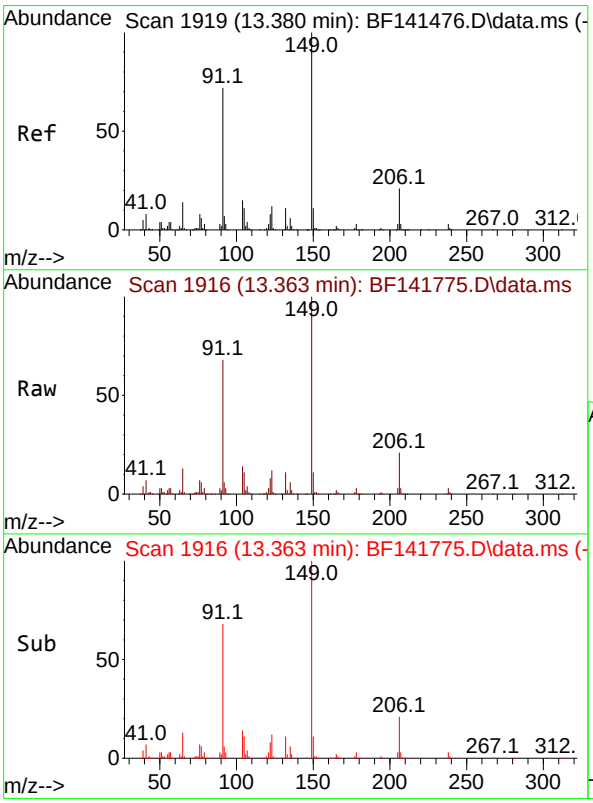
#79
Terphenyl-d14
Concen: 88.866 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 1001068

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.9	8.4	12.6

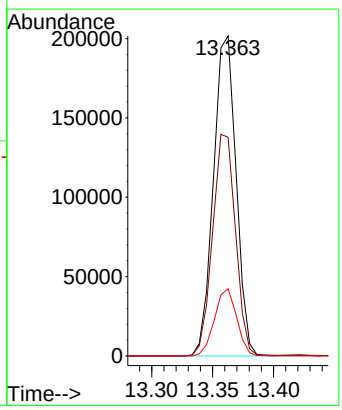


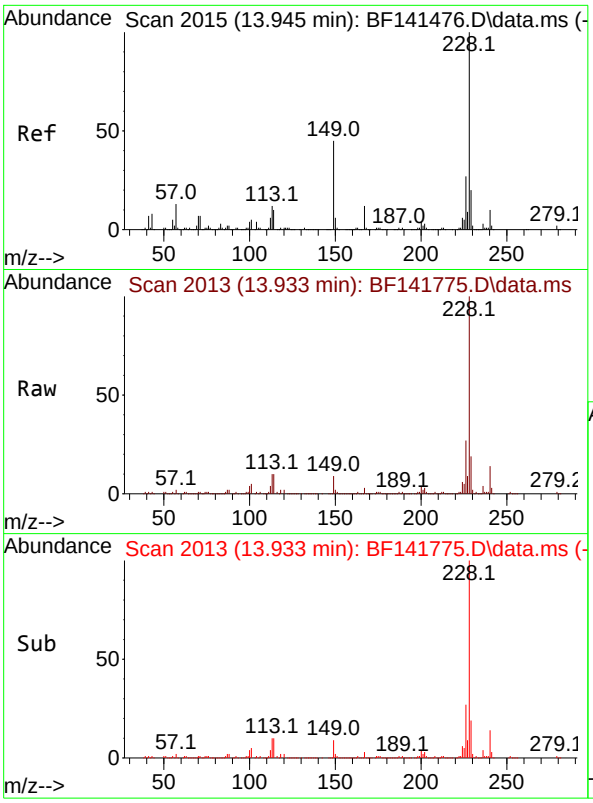


#80
Butylbenzylphthalate
Concen: 46.652 ng
RT: 13.363 min Scan# 1916
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:149 Resp: 261592

Ion	Ratio	Lower	Upper
149	100		
91	68.3	57.8	86.8
206	21.0	16.7	25.1



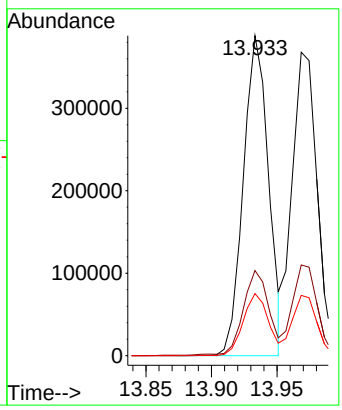


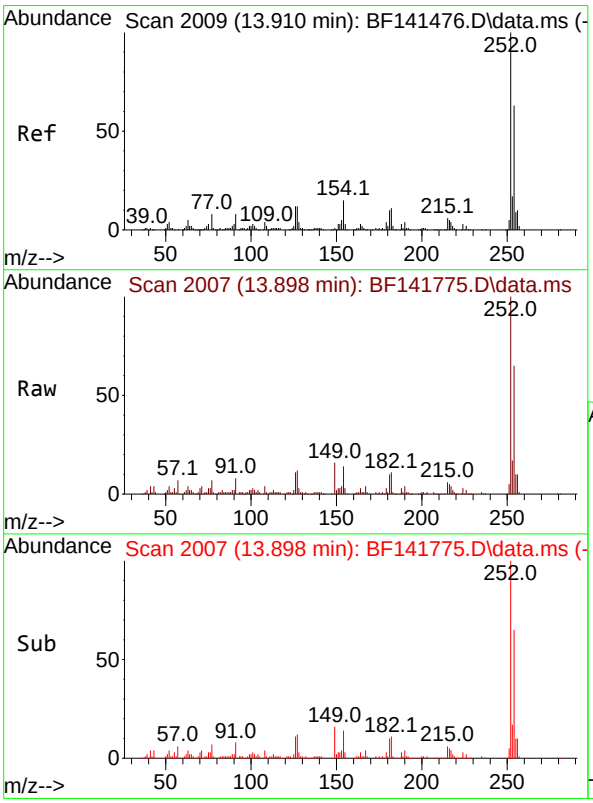
#81
Benzo(a)anthracene
Concen: 41.002 ng
RT: 13.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 518321

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.8	32.8
229	19.4	15.8	23.6

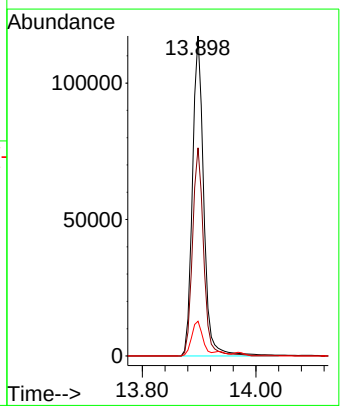


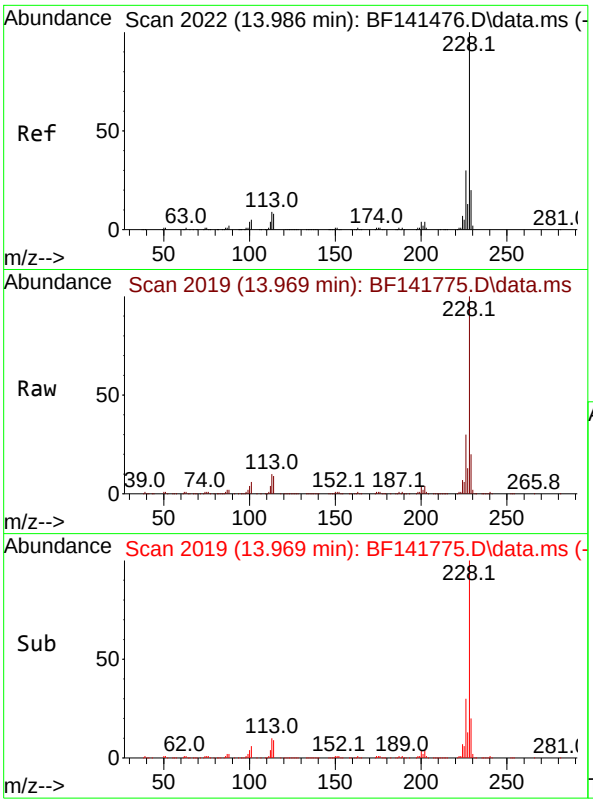


#82
3,3'-Dichlorobenzidine
Concen: 44.881 ng
RT: 13.898 min Scan# 2007
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:252 Resp: 162521

Ion	Ratio	Lower	Upper
252	100		
254	65.0	50.6	76.0
126	10.8	9.3	13.9



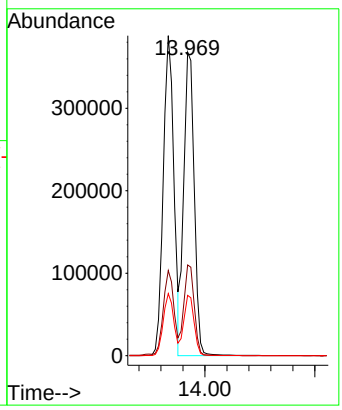


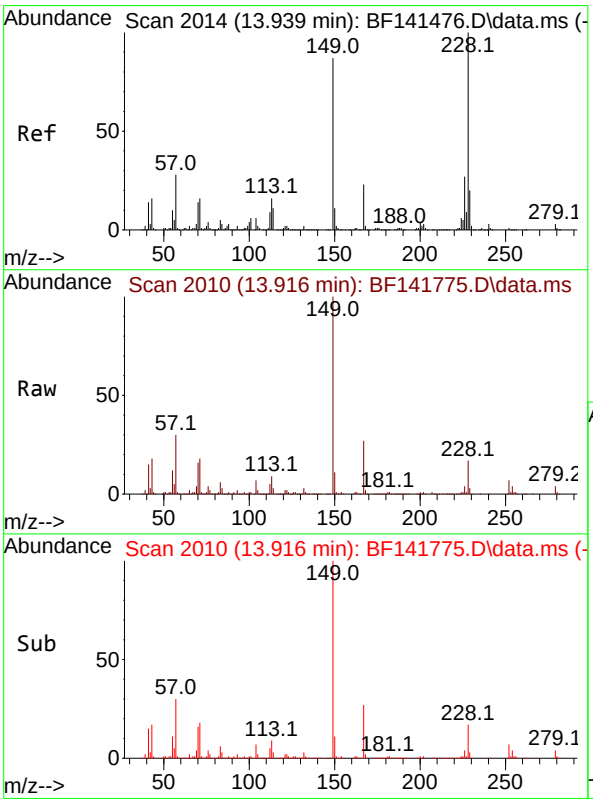
#83
Chrysene
Concen: 41.884 ng
RT: 13.969 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 488888

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.0	36.0
229	19.9	15.7	23.5

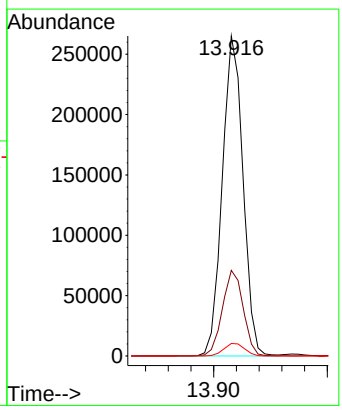


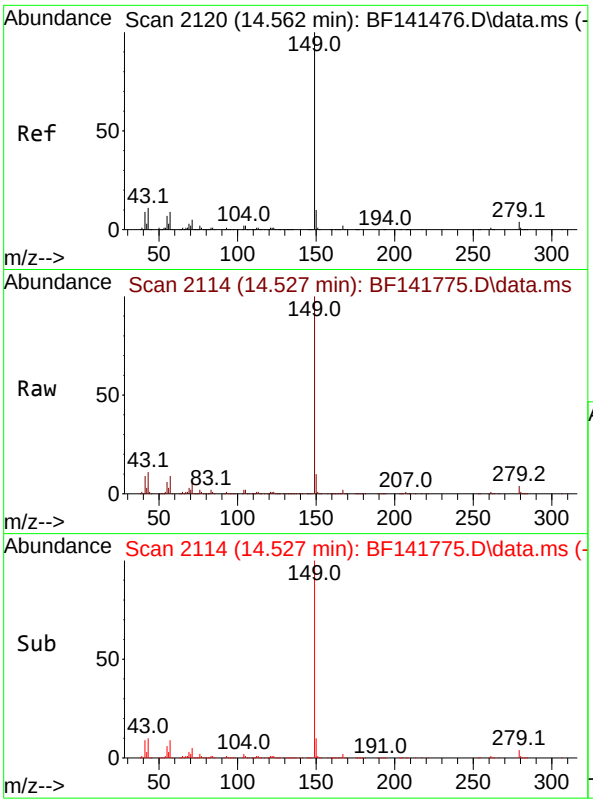


#84
Bis(2-ethylhexyl)phthalate
Concen: 53.117 ng
RT: 13.916 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:149 Resp: 335921

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.4	32.0
279	3.9	3.1	4.7



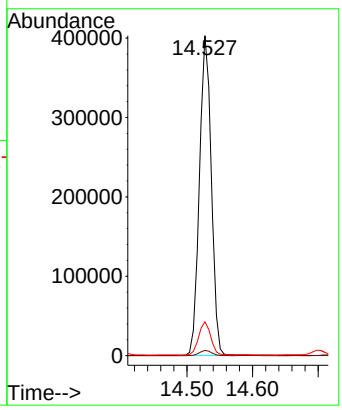


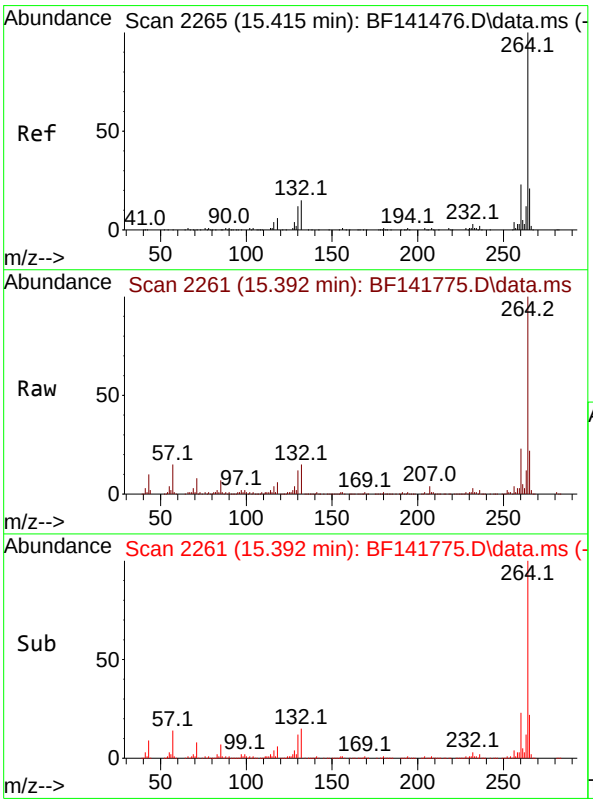
#85
Di-n-octyl phthalate
Concen: 56.453 ng
RT: 14.527 min Scan# 21
Delta R.T. -0.035 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 509316

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	10.5	9.5	14.3

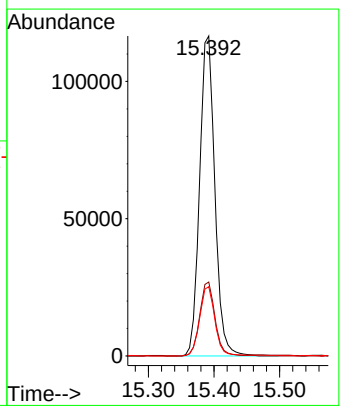


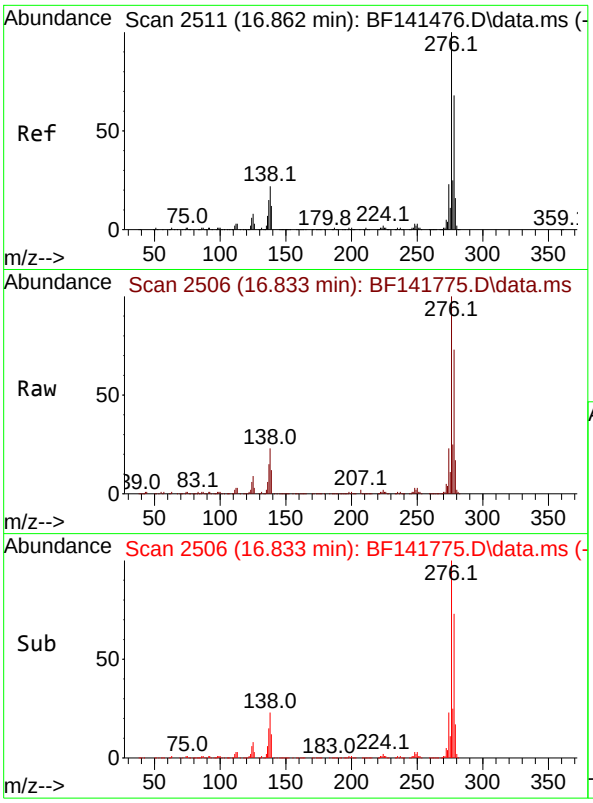


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.392 min Scan# 2261
Delta R.T. -0.023 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:264 Resp: 189428

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.7	17.0	25.4



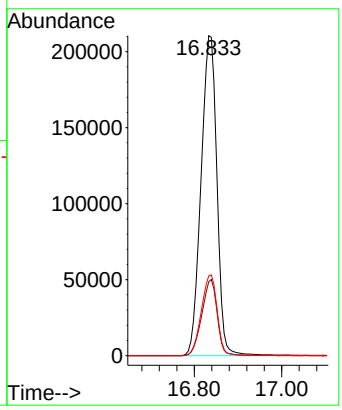


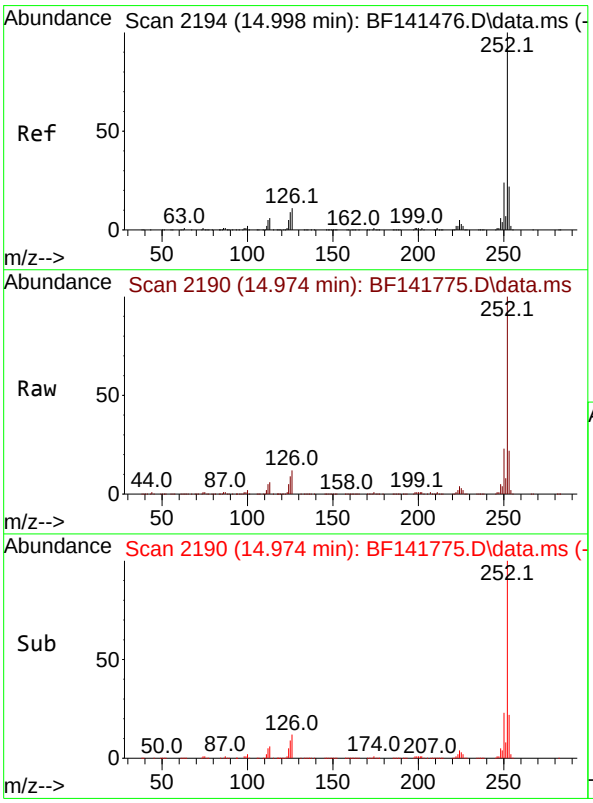
#87
Indeno(1,2,3-cd)pyrene
Concen: 45.519 ng
RT: 16.833 min Scan# 2
Delta R.T. -0.041 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 532782

Ion	Ratio	Lower	Upper
276	100		
138	23.1	18.0	27.0
277	25.2	20.4	30.6

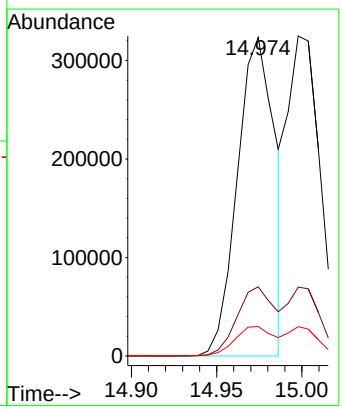


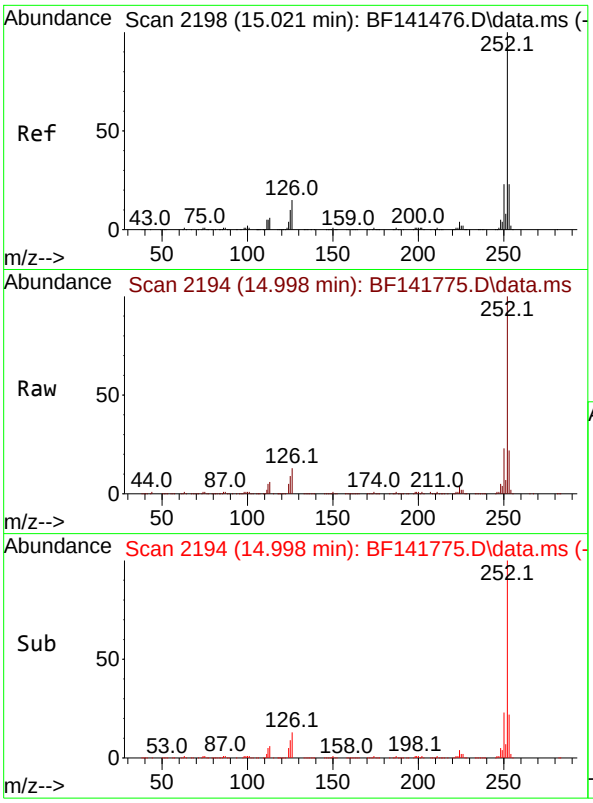


#88
Benzo(b)fluoranthene
Concen: 38.835 ng
RT: 14.974 min Scan# 2190
Delta R.T. -0.029 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:252 Resp: 493954

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	9.3	7.0	10.6



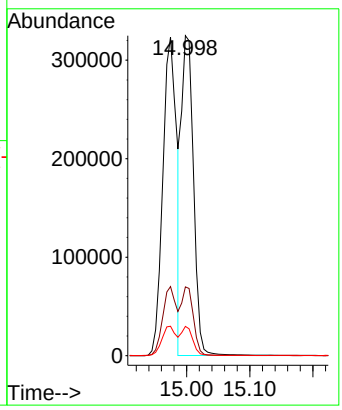


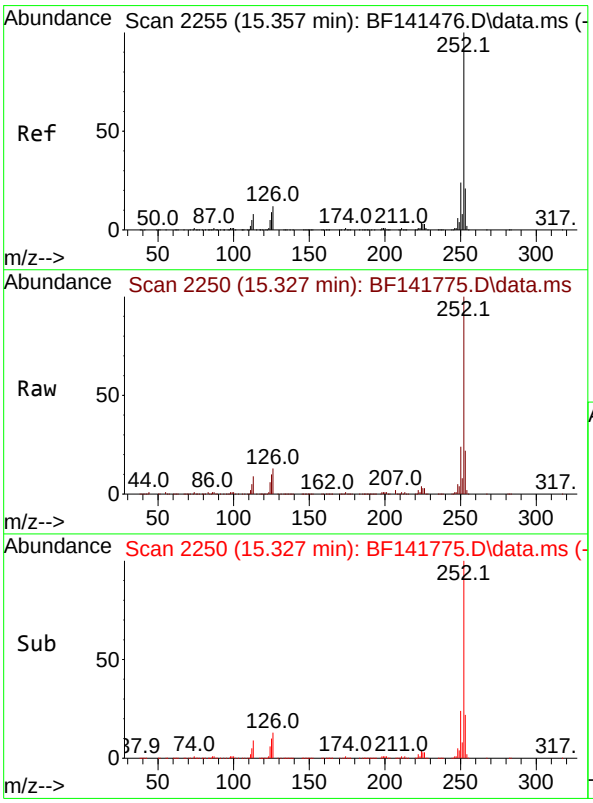
#89
Benzo(k)fluoranthene
Concen: 40.188 ng
RT: 14.998 min Scan# 21
Delta R.T. -0.035 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 436482

Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.0	27.0
125	9.1	7.4	11.0

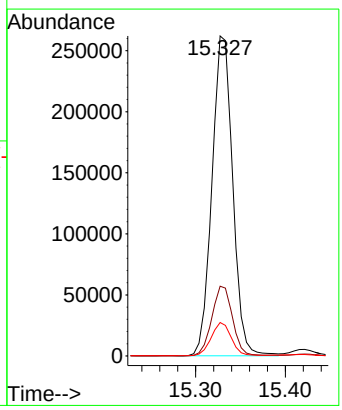


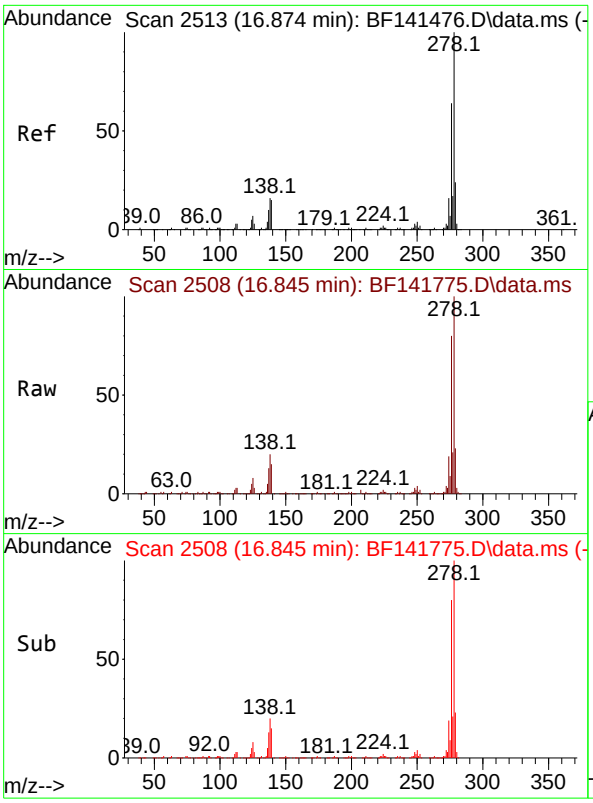


#90
Benzo(a)pyrene
Concen: 40.870 ng
RT: 15.327 min Scan# 2250
Delta R.T. -0.035 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:252 Resp: 420633

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	10.4	7.4	11.2



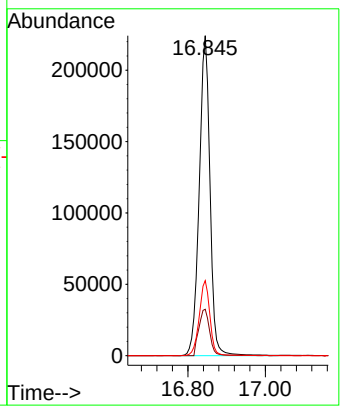


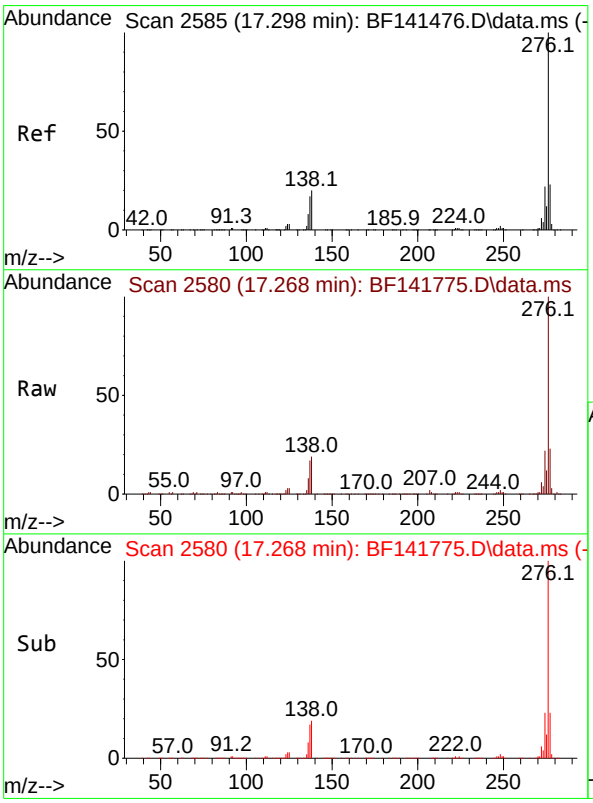
#91
Dibenzo(a,h)anthracene
Concen: 45.570 ng
RT: 16.845 min Scan# 2
Delta R.T. -0.047 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 432192

Ion	Ratio	Lower	Upper
278	100		
139	14.5	11.8	17.6
279	23.4	19.1	28.7

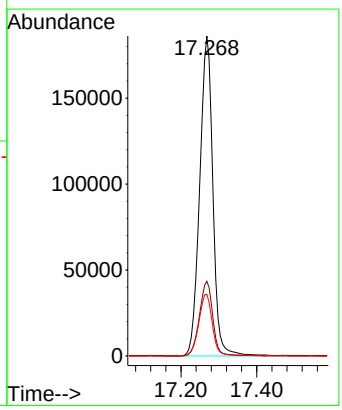




#92
Benzo(g,h,i)perylene
Concen: 45.275 ng
RT: 17.268 min Scan# 2580
Delta R.T. -0.047 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:276 Resp: 449342

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	19.3	15.9	23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141775.D
Acq On : 26 Feb 2025 10:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 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	96	-0.01
2		1,4-Dioxane	0.513	0.531	-3.5	99	-0.02
3		Pyridine	1.222	1.317	-7.8	100	-0.02
4		n-Nitrosodimethylamine	0.809	0.726	10.3	85	-0.04
5	S	2-Fluorophenol	1.276	1.366	-7.1	102	0.00
6		Aniline	1.513	1.528	-1.0	95	-0.02
7	S	Phenol-d6	1.612	1.663	-3.2	99	-0.01
8		2-Chlorophenol	1.378	1.467	-6.5	102	-0.01
9		Benzaldehyde	0.857	0.907	-5.8	106	0.00
10	C	Phenol	1.678	1.722	-2.6	98	-0.01
11		bis(2-Chloroethyl)ether	1.261	1.285	-1.9	97	-0.01
12		1,3-Dichlorobenzene	1.455	1.552	-6.7	103	-0.01
13	C	1,4-Dichlorobenzene	1.487	1.554	-4.5	101	-0.01
14		1,2-Dichlorobenzene	1.380	1.467	-6.3	102	-0.01
15		Benzyl Alcohol	1.236	1.239	-0.2	94	0.00
16		2,2'-oxybis(1-Chloropropane	2.158	2.011	6.8	89	-0.01
17		2-Methylphenol	1.079	1.099	-1.9	98	0.00
18		Hexachloroethane	0.550	0.572	-4.0	99	-0.01
19	P	n-Nitroso-di-n-propylamine	0.964	0.977	-1.3	97	-0.02
20		3+4-Methylphenols	1.371	1.432	-4.4	100	-0.01
21	I	Naphthalene-d8	1.000	1.000	0.0	98	-0.01
22		Acetophenone	0.498	0.499	-0.2	99	-0.02
23	S	Nitrobenzene-d5	0.383	0.375	2.1	96	-0.01
24		Nitrobenzene	0.374	0.361	3.5	95	-0.01
25		Isophorone	0.611	0.607	0.7	98	-0.01
26	C	2-Nitrophenol	0.186	0.196	-5.4	100	0.00
27		2,4-Dimethylphenol	0.217	0.221	-1.8	98	0.00
28		bis(2-Chloroethoxy)methane	0.392	0.404	-3.1	101	-0.01
29	C	2,4-Dichlorophenol	0.294	0.303	-3.1	101	0.00
30		1,2,4-Trichlorobenzene	0.320	0.326	-1.9	101	0.00
31		Naphthalene	1.041	1.050	-0.9	99	-0.01
32		Benzoic acid	0.226	0.188	16.8	80	-0.02
33		4-Chloroaniline	0.363	0.381	-5.0	103	-0.02
34	C	Hexachlorobutadiene	0.192	0.196	-2.1	100	-0.01
35		Caprolactam	0.089	0.090	-1.1	95	-0.03
36	C	4-Chloro-3-methylphenol	0.325	0.327	-0.6	98	-0.01
37		2-Methylnaphthalene	0.677	0.692	-2.2	102	-0.01
38		1-Methylnaphthalene	0.656	0.662	-0.9	99	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	97	-0.02
40		1,2,4,5-Tetrachlorobenzene	0.579	0.600	-3.6	100	0.00
41	P	Hexachlorocyclopentadiene	0.192	0.186	3.1	89	-0.01
42	S	2,4,6-Tribromophenol	0.201	0.205	-2.0	100	-0.02
43	C	2,4,6-Trichlorophenol	0.374	0.378	-1.1	98	0.00
44		2,4,5-Trichlorophenol	0.405	0.404	0.2	96	0.00
45	S	2-Fluorobiphenyl	1.298	1.311	-1.0	101	-0.01
46		1,1'-Biphenyl	1.551	1.592	-2.6	100	-0.02
47		2-Chloronaphthalene	1.147	1.179	-2.8	101	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141775.D
Acq On : 26 Feb 2025 10:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 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	0.385	0.371	3.6	93	-0.01
49		Acenaphthylene	1.705	1.716	-0.6	99	-0.01
50		Dimethylphthalate	1.358	1.404	-3.4	102	-0.02
51		2,6-Dinitrotoluene	0.297	0.311	-4.7	101	-0.01
52	C	Acenaphthene	1.147	1.148	-0.1	97	-0.02
53		3-Nitroaniline	0.319	0.316	0.9	96	-0.01
54	P	2,4-Dinitrophenol	0.176	0.165	6.2	91	0.00
55		Dibenzofuran	1.683	1.683	0.0	98	-0.02
56	P	4-Nitrophenol	0.237	0.220	7.2	86	0.00
57		2,4-Dinitrotoluene	0.395	0.392	0.8	96	-0.01
58		Fluorene	1.301	1.325	-1.8	100	-0.01
59		2,3,4,6-Tetrachlorophenol	0.349	0.345	1.1	96	-0.01
60		Diethylphthalate	1.336	1.362	-1.9	100	-0.02
61		4-Chlorophenyl-phenylether	0.626	0.660	-5.4	103	-0.02
62		4-Nitroaniline	0.324	0.308	4.9	90	-0.02
63		Azobenzene	1.328	1.308	1.5	96	-0.02
64	I	Phenanthrene-d10	1.000	1.000	0.0	94	-0.01
65		4,6-Dinitro-2-methylphenol	0.139	0.138	0.7	91	-0.01
66	c	n-Nitrosodiphenylamine	0.640	0.669	-4.5	100	-0.02
67		4-Bromophenyl-phenylether	0.224	0.239	-6.7	102	-0.02
68		Hexachlorobenzene	0.230	0.248	-7.8	103	-0.01
69		Atrazine	0.192	0.176	8.3	89	-0.02
70	C	Pentachlorophenol	0.147	0.154	-4.8	93	-0.01
71		Phenanthrene	1.101	1.138	-3.4	98	-0.02
72		Anthracene	1.107	1.135	-2.5	98	-0.02
73		Carbazole	0.996	0.991	0.5	94	-0.01
74		Di-n-butylphthalate	1.150	1.240	-7.8	102	-0.02
75	C	Fluoranthene	1.167	1.148	1.6	93	-0.02
76	I	Chrysene-d12	1.000	1.000	0.0	84	-0.02
77		Benzidine	0.441	0.446	-1.1	71	-0.01
78		Pyrene	1.703	1.867	-9.6	90	-0.02
79	S	Terphenyl-d14	1.185	1.316	-11.1	93	-0.02
80		Butylbenzylphthalate	0.590	0.688	-16.6	95	-0.02
81		Benzo(a)anthracene	1.329	1.363	-2.6	85	-0.02
82		3,3'-Dichlorobenzidine	0.381	0.427	-12.1	95	-0.02
83		Chrysene	1.228	1.285	-4.6	90	-0.02
84		Bis(2-ethylhexyl)phthalate	0.665	0.883	-32.8#	108	-0.02
85	c	Di-n-octyl phthalate	0.949	1.339	-41.1#	117	-0.04
86	I	Perylene-d12	1.000	1.000	0.0	104	-0.02
87		Indeno(1,2,3-cd)pyrene	1.236	1.406	-13.8	113	-0.04
88		Benzo(b)fluoranthene	1.343	1.304	2.9	101	-0.03
89		Benzo(k)fluoranthene	1.147	1.152	-0.4	104	-0.04
90	C	Benzo(a)pyrene	1.087	1.110	-2.1	106	-0.04
91		Dibenzo(a,h)anthracene	1.001	1.141	-14.0	112	-0.05
92		Benzo(g,h,i)perylene	1.048	1.186	-13.2	112	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141775.D
Acq On : 26 Feb 2025 10:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141775.D
Acq On : 26 Feb 2025 10:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 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	96	-0.01
2		1,4-Dioxane	40.000	41.405	-3.5	99	-0.02
3		Pyridine	40.000	43.112	-7.8	100	-0.02
4		n-Nitrosodimethylamine	40.000	35.897	10.3	85	-0.04
5	S	2-Fluorophenol	80.000	85.642	-7.1	102	0.00
6		Aniline	40.000	40.412	-1.0	95	-0.02
7	S	Phenol-d6	80.000	82.530	-3.2	99	-0.01
8		2-Chlorophenol	40.000	42.577	-6.4	102	-0.01
9		Benzaldehyde	40.000	42.342	-5.9	106	0.00
10	C	Phenol	40.000	41.054	-2.6	98	-0.01
11		bis(2-Chloroethyl)ether	40.000	40.782	-2.0	97	-0.01
12		1,3-Dichlorobenzene	40.000	42.649	-6.6	103	-0.01
13	C	1,4-Dichlorobenzene	40.000	41.812	-4.5	101	-0.01
14		1,2-Dichlorobenzene	40.000	42.534	-6.3	102	-0.01
15		Benzyl Alcohol	40.000	40.087	-0.2	94	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.280	6.8	89	-0.01
17		2-Methylphenol	40.000	40.743	-1.9	98	0.00
18		Hexachloroethane	40.000	41.554	-3.9	99	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	40.509	-1.3	97	-0.02
20		3+4-Methylphenols	40.000	41.793	-4.5	100	-0.01
21	I	Naphthalene-d8	20.000	20.000	0.0	98	-0.01
22		Acetophenone	40.000	40.120	-0.3	99	-0.02
23	S	Nitrobenzene-d5	80.000	78.277	2.2	96	-0.01
24		Nitrobenzene	40.000	38.612	3.5	95	-0.01
25		Isophorone	40.000	39.692	0.8	98	-0.01
26	C	2-Nitrophenol	40.000	42.247	-5.6	100	0.00
27		2,4-Dimethylphenol	40.000	40.708	-1.8	98	0.00
28		bis(2-Chloroethoxy)methane	40.000	41.204	-3.0	101	-0.01
29	C	2,4-Dichlorophenol	40.000	41.335	-3.3	101	0.00
30		1,2,4-Trichlorobenzene	40.000	40.821	-2.1	101	0.00
31		Naphthalene	40.000	40.355	-0.9	99	-0.01
32		Benzoic acid	40.000	33.261	16.8	80	-0.02
33		4-Chloroaniline	40.000	41.953	-4.9	103	-0.02
34	C	Hexachlorobutadiene	40.000	40.899	-2.2	100	-0.01
35		Caprolactam	40.000	40.218	-0.5	95	-0.03
36	C	4-Chloro-3-methylphenol	40.000	40.227	-0.6	98	-0.01
37		2-Methylnaphthalene	40.000	40.882	-2.2	102	-0.01
38		1-Methylnaphthalene	40.000	40.333	-0.8	99	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	97	-0.02
40		1,2,4,5-Tetrachlorobenzene	40.000	41.503	-3.8	100	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.631	3.4	89	-0.01
42	S	2,4,6-Tribromophenol	80.000	81.472	-1.8	100	-0.02
43	C	2,4,6-Trichlorophenol	40.000	40.392	-1.0	98	0.00
44		2,4,5-Trichlorophenol	40.000	39.917	0.2	96	0.00
45	S	2-Fluorobiphenyl	80.000	80.803	-1.0	101	-0.01
46		1,1'-Biphenyl	40.000	41.065	-2.7	100	-0.02
47		2-Chloronaphthalene	40.000	41.132	-2.8	101	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141775.D
Acq On : 26 Feb 2025 10:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 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	38.554	3.6	93	-0.01
49		Acenaphthylene	40.000	40.243	-0.6	99	-0.01
50		Dimethylphthalate	40.000	41.369	-3.4	102	-0.02
51		2,6-Dinitrotoluene	40.000	41.931	-4.8	101	-0.01
52	C	Acenaphthene	40.000	40.039	-0.1	97	-0.02
53		3-Nitroaniline	40.000	39.520	1.2	96	-0.01
54	P	2,4-Dinitrophenol	40.000	37.317	6.7	91	0.00
55		Dibenzofuran	40.000	39.995	0.0	98	-0.02
56	P	4-Nitrophenol	40.000	37.082	7.3	86	0.00
57		2,4-Dinitrotoluene	40.000	39.692	0.8	96	-0.01
58		Fluorene	40.000	40.745	-1.9	100	-0.01
59		2,3,4,6-Tetrachlorophenol	40.000	39.503	1.2	96	-0.01
60		Diethylphthalate	40.000	40.773	-1.9	100	-0.02
61		4-Chlorophenyl-phenylether	40.000	42.168	-5.4	103	-0.02
62		4-Nitroaniline	40.000	38.000	5.0	90	-0.02
63		Azobenzene	40.000	39.399	1.5	96	-0.02
64	I	Phenanthrene-d10	20.000	20.000	0.0	94	-0.01
65		4,6-Dinitro-2-methylphenol	40.000	39.684	0.8	91	-0.01
66	c	n-Nitrosodiphenylamine	40.000	41.817	-4.5	100	-0.02
67		4-Bromophenyl-phenylether	40.000	42.834	-7.1	102	-0.02
68		Hexachlorobenzene	40.000	43.146	-7.9	103	-0.01
69		Atrazine	40.000	36.750	8.1	89	-0.02
70	C	Pentachlorophenol	40.000	41.789	-4.5	93	-0.01
71		Phenanthrene	40.000	41.360	-3.4	98	-0.02
72		Anthracene	40.000	41.033	-2.6	98	-0.02
73		Carbazole	40.000	39.813	0.5	94	-0.01
74		Di-n-butylphthalate	40.000	43.146	-7.9	102	-0.02
75	C	Fluoranthene	40.000	39.327	1.7	93	-0.02
76	I	Chrysene-d12	20.000	20.000	0.0	84	-0.02
77		Benzidine	40.000	40.405	-1.0	71	-0.01
78		Pyrene	40.000	43.860	-9.6	90	-0.02
79	S	Terphenyl-d14	80.000	88.866	-11.1	93	-0.02
80		Butylbenzylphthalate	40.000	46.652	-16.6	95	-0.02
81		Benzo(a)anthracene	40.000	41.002	-2.5	85	-0.02
82		3,3'-Dichlorobenzidine	40.000	44.881	-12.2	95	-0.02
83		Chrysene	40.000	41.884	-4.7	90	-0.02
84		Bis(2-ethylhexyl)phthalate	40.000	53.117	-32.8#	108	-0.02
85	c	Di-n-octyl phthalate	40.000	56.453	-41.1#	117	-0.04
86	I	Perylene-d12	20.000	20.000	0.0	104	-0.02
87		Indeno(1,2,3-cd)pyrene	40.000	45.519	-13.8	113	-0.04
88		Benzo(b)fluoranthene	40.000	38.835	2.9	101	-0.03
89		Benzo(k)fluoranthene	40.000	40.188	-0.5	104	-0.04
90	C	Benzo(a)pyrene	40.000	40.870	-2.2	106	-0.04
91		Dibenzo(a,h)anthracene	40.000	45.570	-13.9	112	-0.05
92		Benzo(g,h,i)perylene	40.000	45.275	-13.2	112	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141775.D
Acq On : 26 Feb 2025 10:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

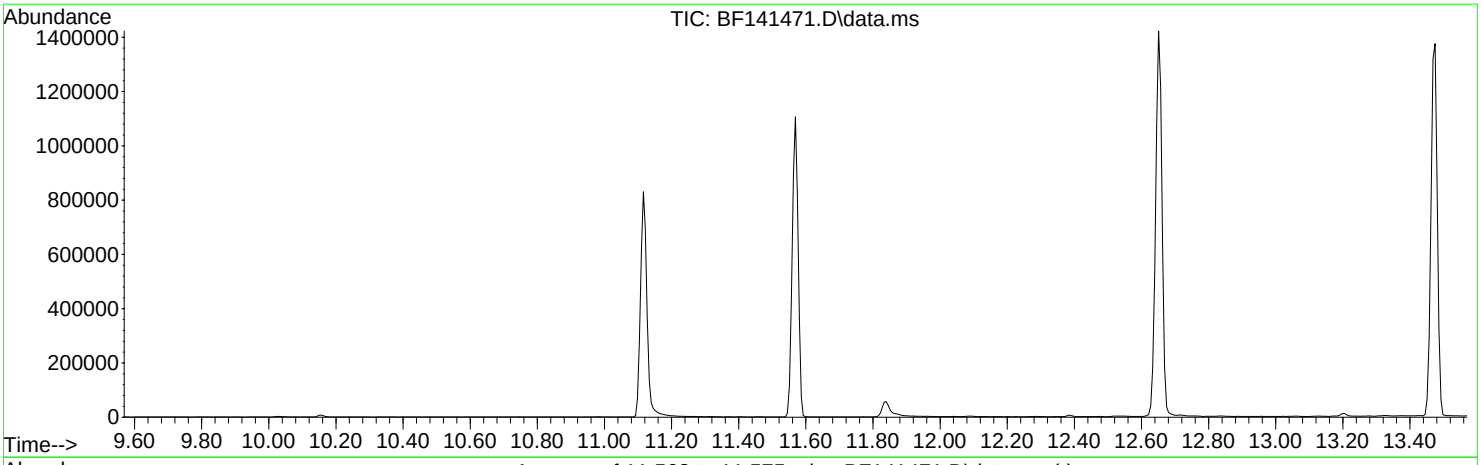
QC SAMPLE DATA

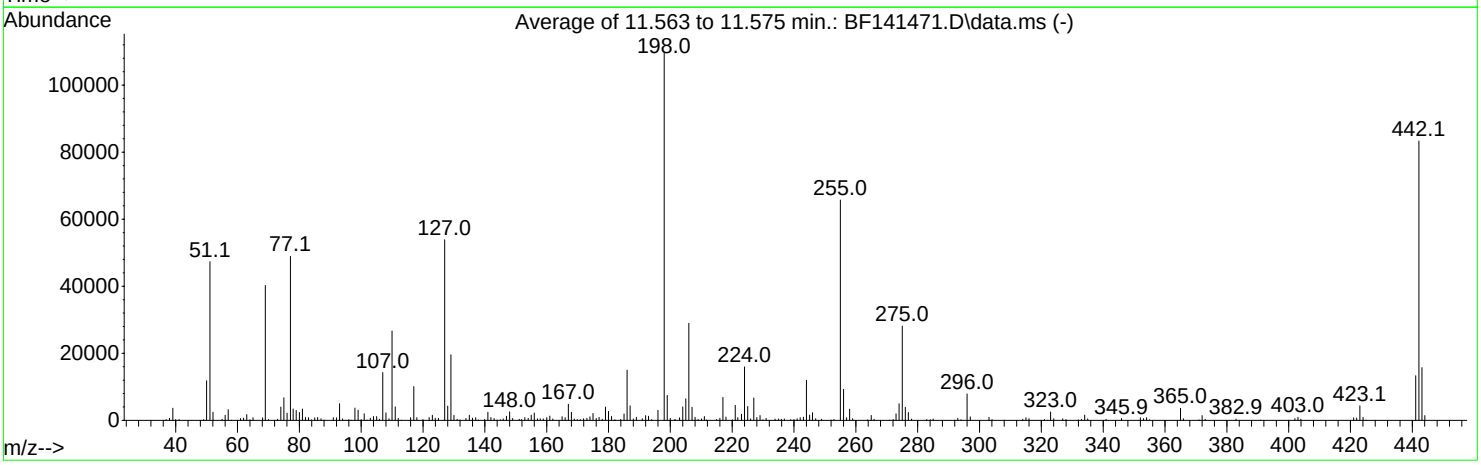
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141471.D
Acq On : 06 Feb 2025 10:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 16:58:59 2025





AutoFind: Scans 1610, 1611, 1612; Background Corrected with Scan 1603

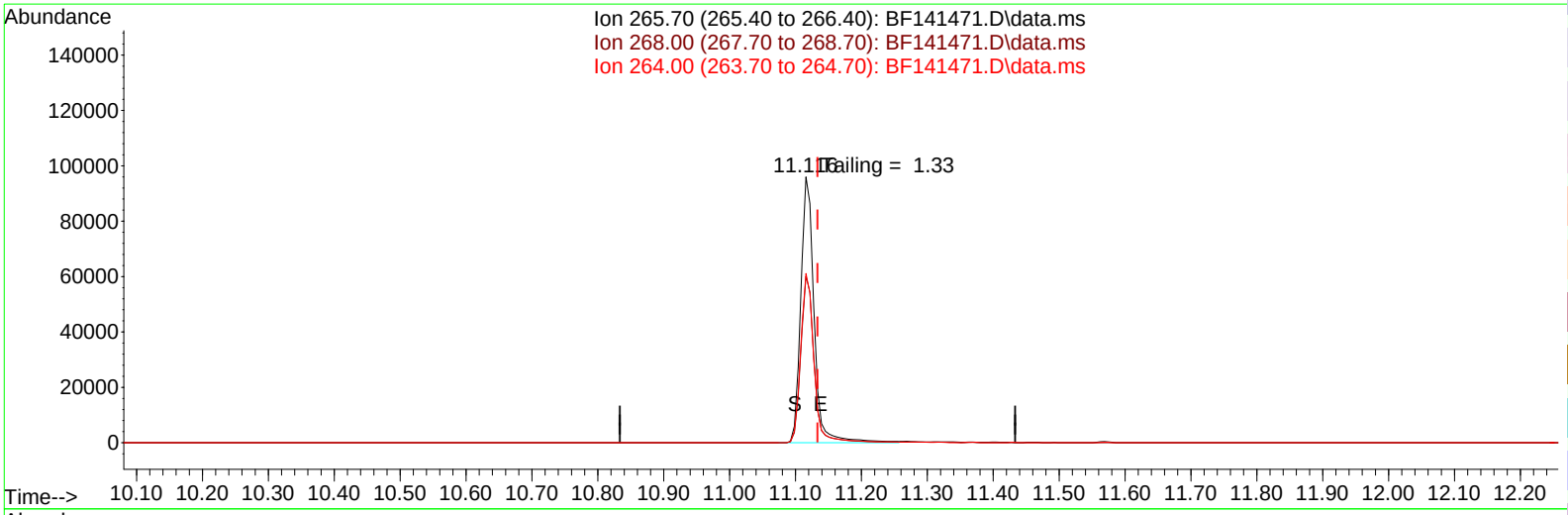
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.2	47360	PASS
68	69	0.00	2	1.9	756	PASS
69	198	0.00	100	36.7	40248	PASS
70	69	0.00	2	0.5	221	PASS
127	198	10	80	49.1	53877	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	109720	PASS
199	198	5	9	6.8	7444	PASS
275	198	10	60	25.6	28133	PASS
365	198	1	100	3.3	3599	PASS
441	198	0.01	100	12.2	13341	PASS
442	442	50	100	100.0	83323	PASS
443	442	15	24	18.9	15754	PASS

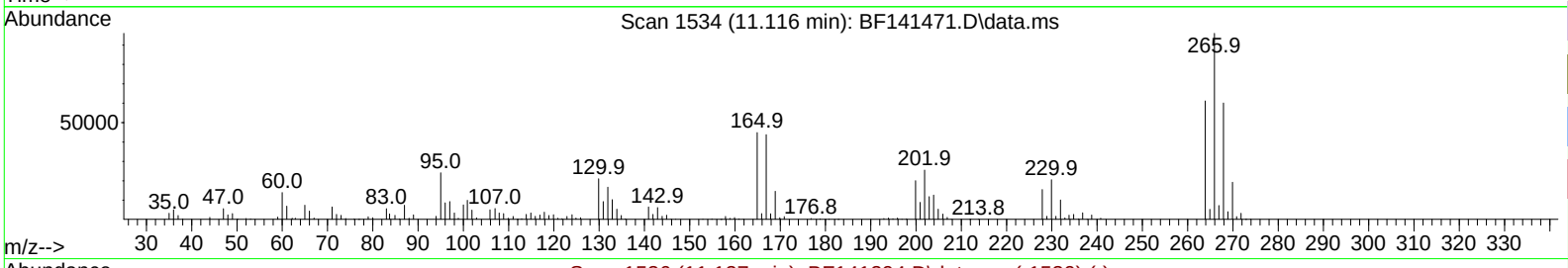
Sample Results: **BF141471.D**

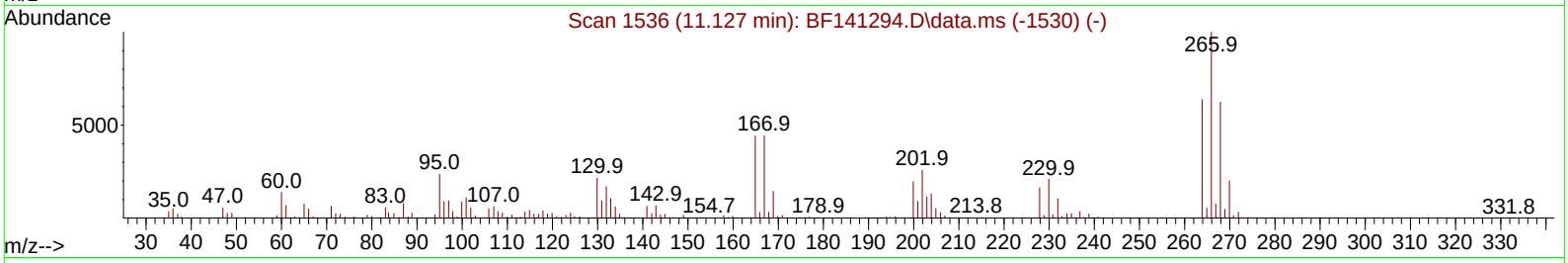
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141471.D
Acq On : 06 Feb 2025 10:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 06 13:09:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 13:08:53 2025
Response via : Initial Calibration







TIC: BF141471.D\data.ms

(70) Pentachlorophenol (C)

11.116min (-0.018) 32915.33 ng

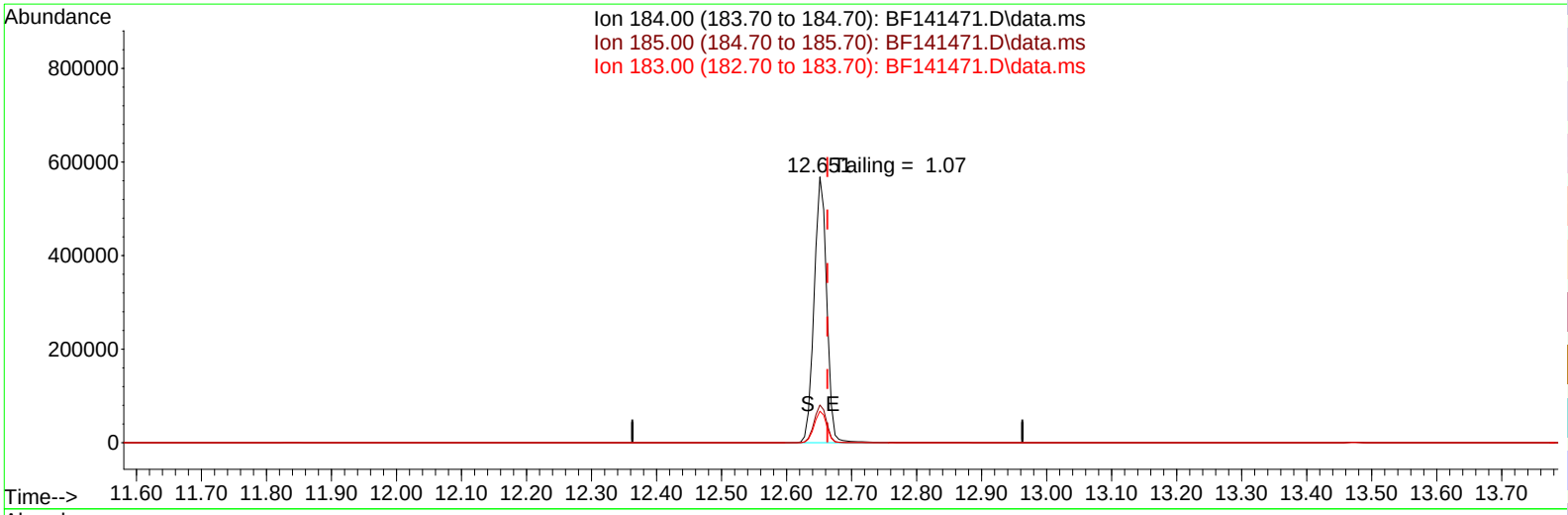
response 135048

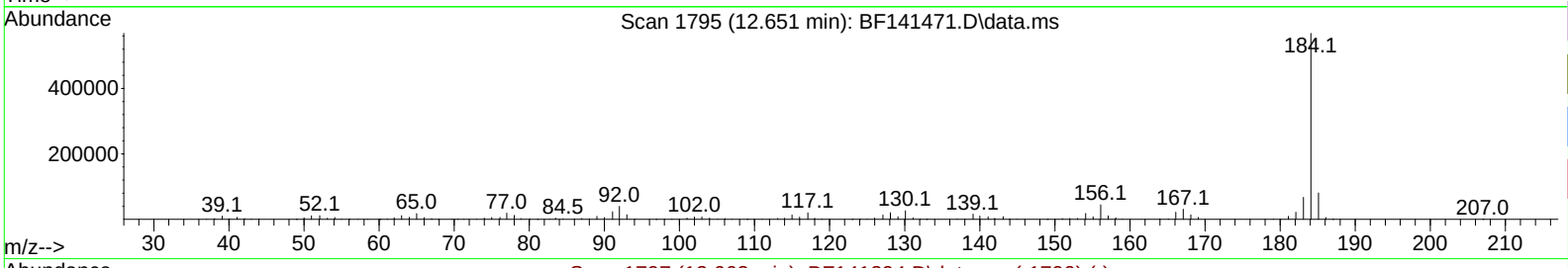
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.40	62.59
264.00	63.70	63.70
0.00	0.00	0.00

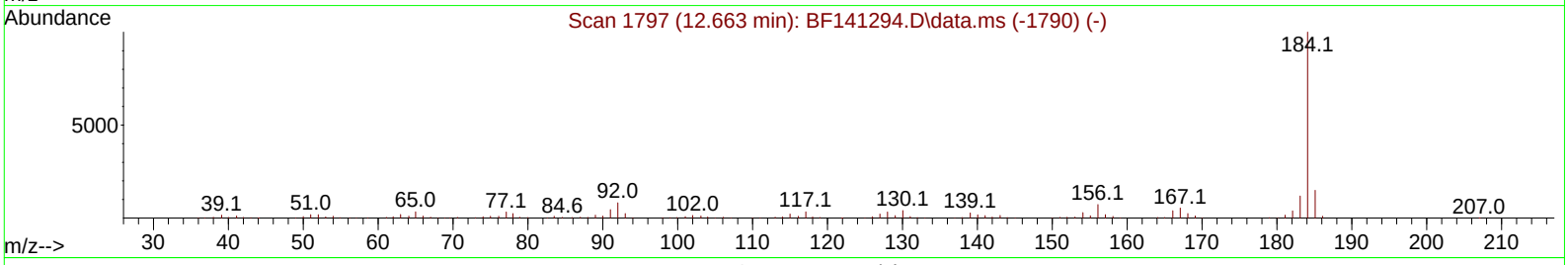
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141471.D
Acq On : 06 Feb 2025 10:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 06 13:09:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 13:08:53 2025
Response via : Initial Calibration







TIC: BF141471.D\data.ms

(77) Benzidine

12.651min (-0.012) 0.00 ng

response 764582

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.21
183.00	11.90	11.88
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

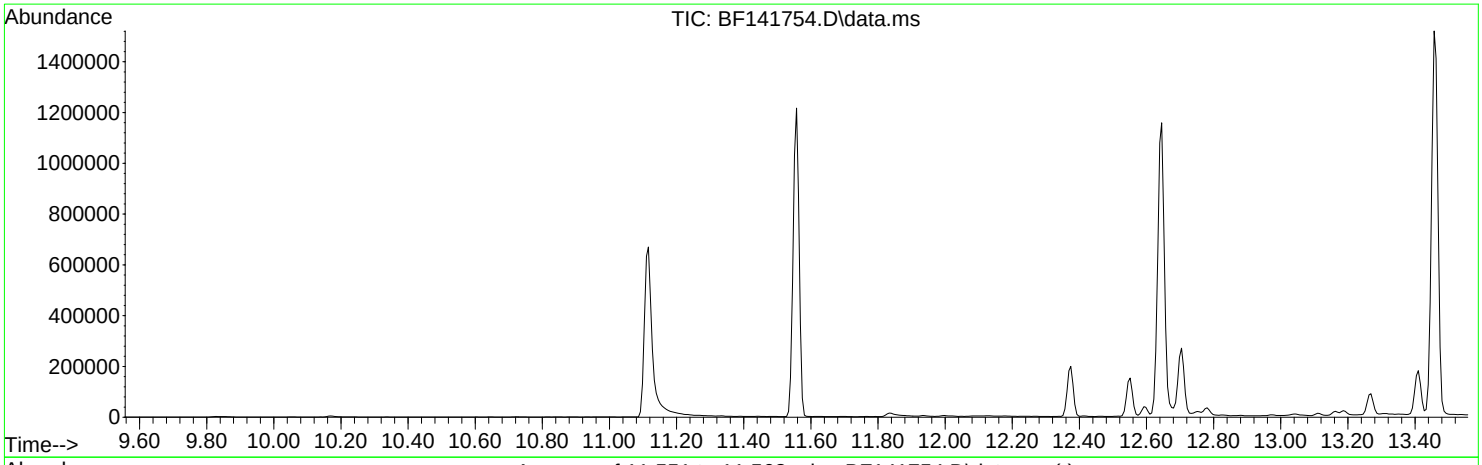
Date	Instrument Name	DFTPP Data File
2/6/2025	BNA_F	BF141471.D
Compound Name	**Response**	**Retention Time**
DDT	348871	13.475
DDD	6398	13.204
DDE	521	12.839
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6919	355790	1.94

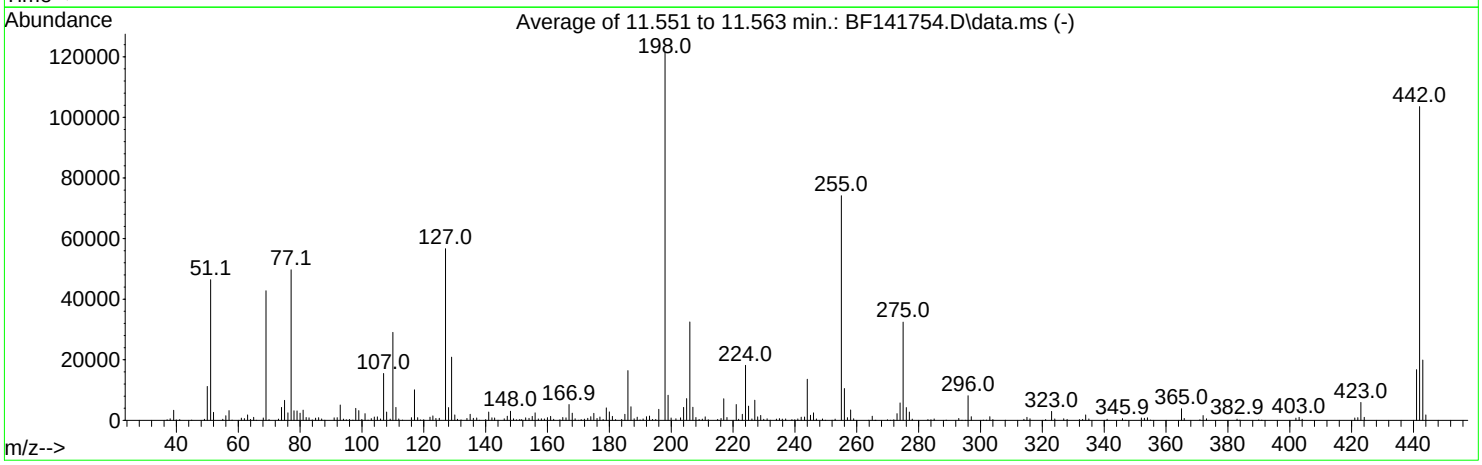
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141754.D
Acq On : 25 Feb 2025 09:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 16:58:59 2025





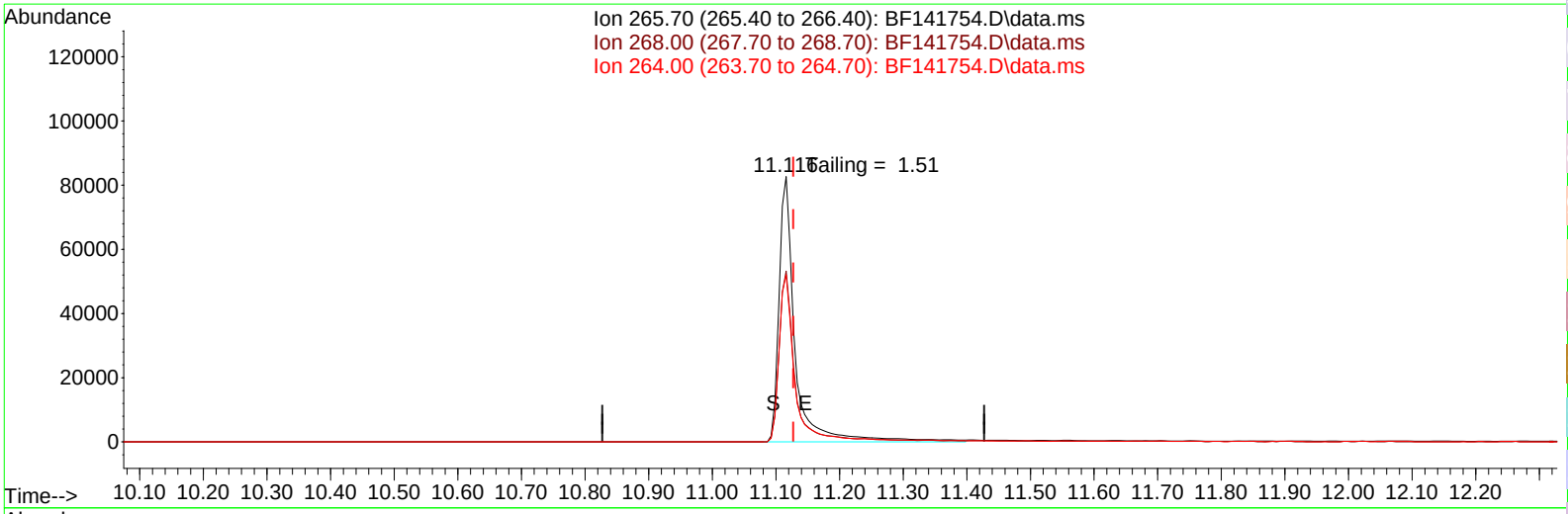
AutoFind: Scans 1608, 1609, 1610; Background Corrected with Scan 1602

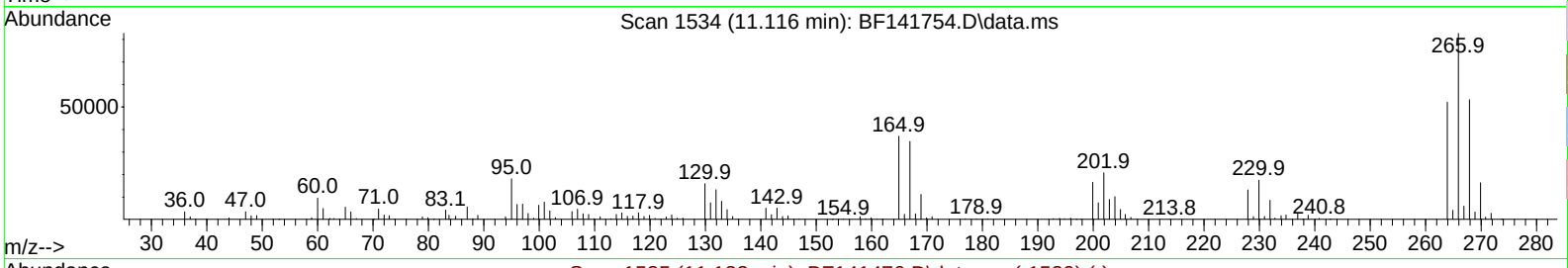
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.2	46424	PASS
68	69	0.00	2	1.9	816	PASS
69	198	0.00	100	35.2	42755	PASS
70	69	0.00	2	0.6	249	PASS
127	198	10	80	46.7	56675	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	121405	PASS
199	198	5	9	6.8	8275	PASS
275	198	10	60	26.7	32403	PASS
365	198	1	100	3.2	3833	PASS
441	198	0.01	100	13.8	16753	PASS
442	442	50	100	100.0	103555	PASS
443	442	15	24	19.2	19914	PASS

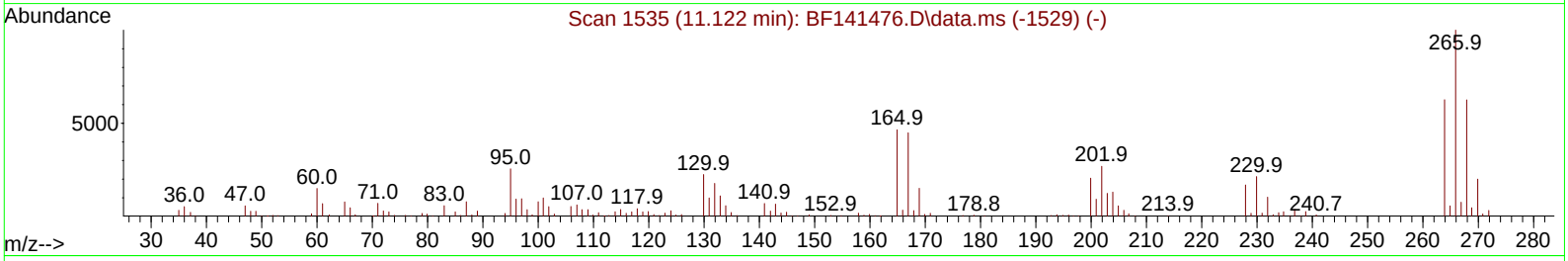
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141754.D
Acq On : 25 Feb 2025 09:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 25 09:54:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration







TIC: BF141754.D\data.ms

(70) Pentachlorophenol (C)

11.116min (-0.011) 155220.49 ng

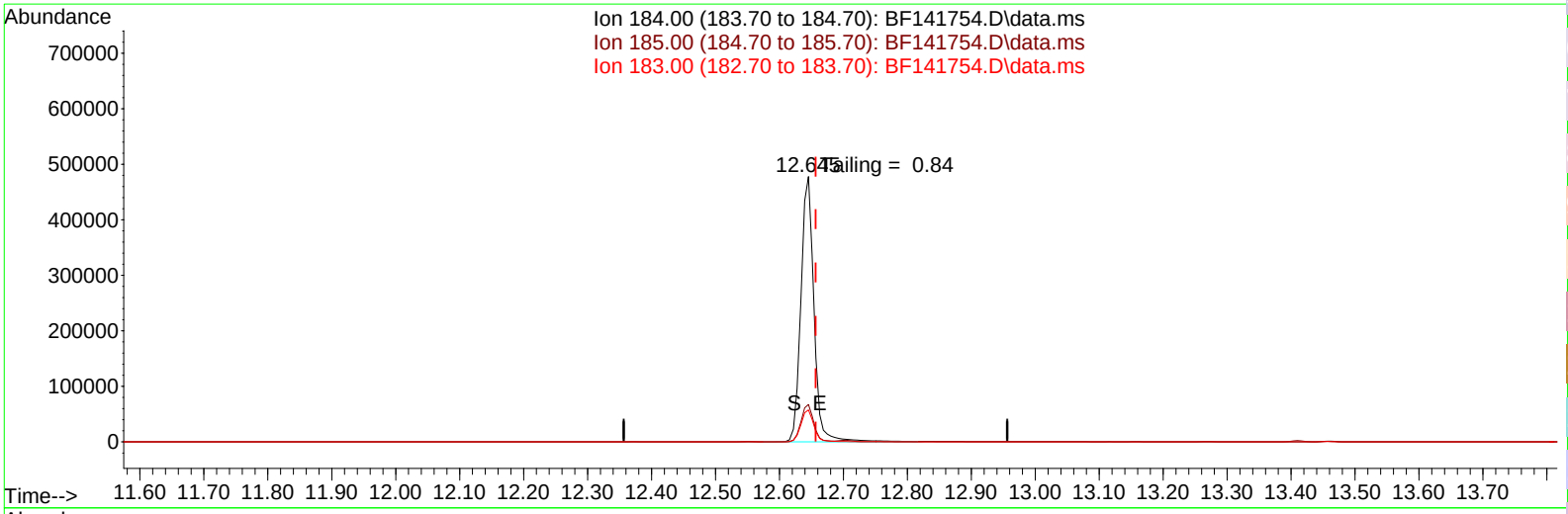
response 143922

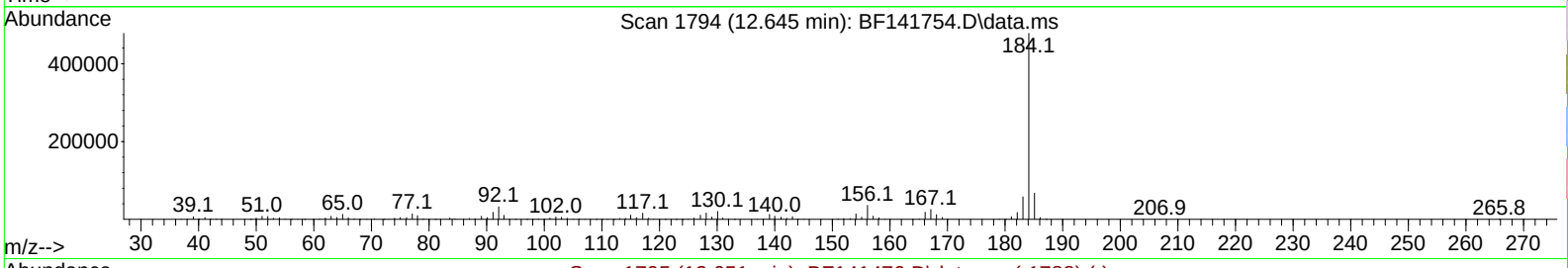
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.60	64.39
264.00	62.60	63.03
0.00	0.00	0.00

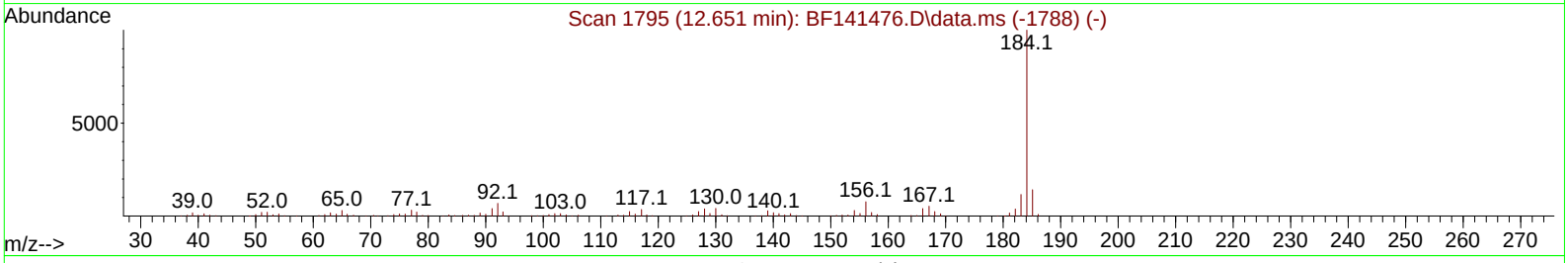
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141754.D
Acq On : 25 Feb 2025 09:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 25 09:54:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration







TIC: BF141754.D\data.ms

(77) Benzidine

12.645min (-0.012) 0.00 ng

response 681801

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.09
183.00	11.60	12.08
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

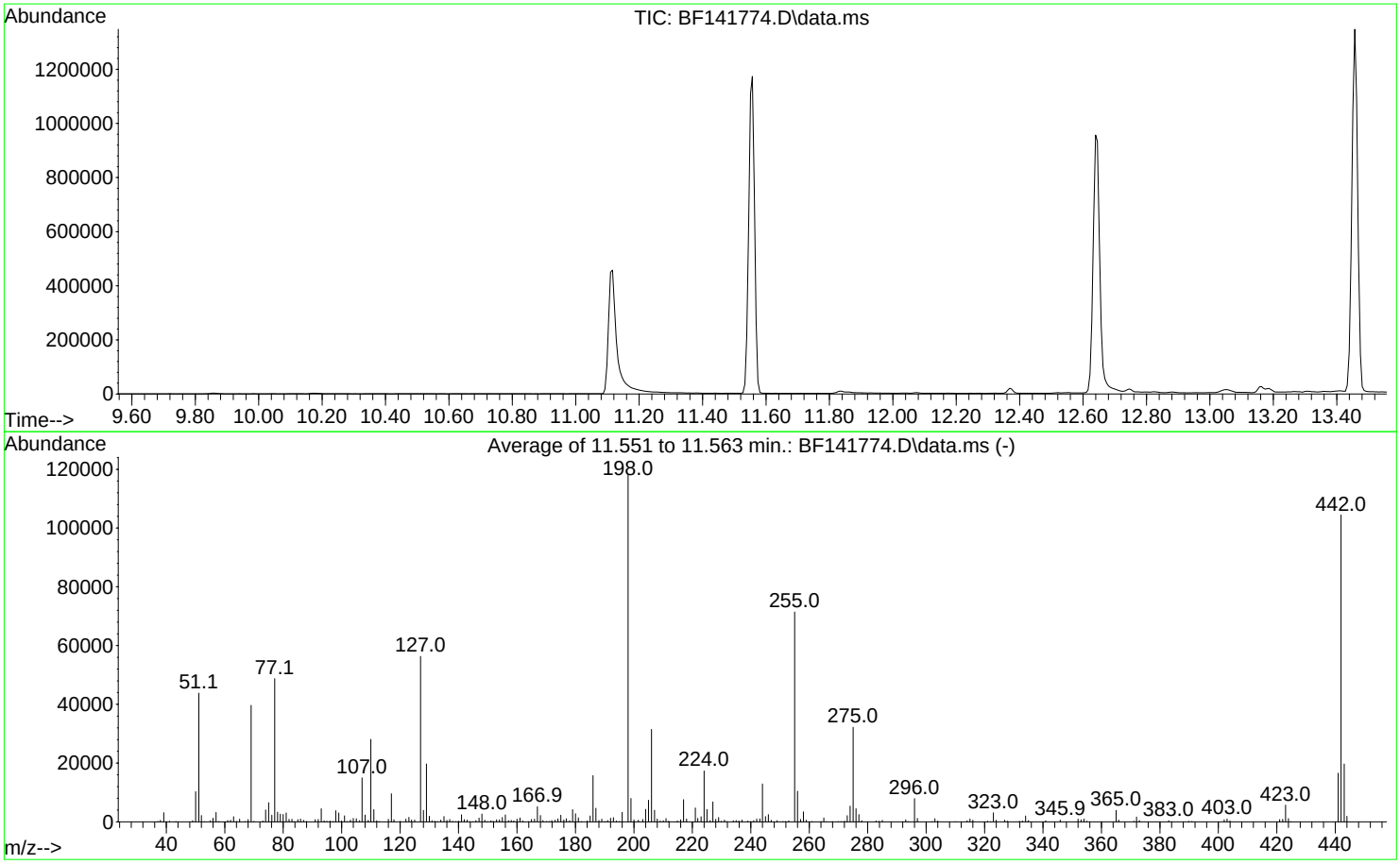
Date	Instrument Name	DFTPP Data File
2/25/2025	BNA_F	BF141754.D
Compound Name	**Response**	**Retention Time**
DDT	391181	13.457
DDD	10426	13.186
DDE	753	12.828
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
11179	402360	2.78

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141774.D
Acq On : 26 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-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 16:58:59 2025



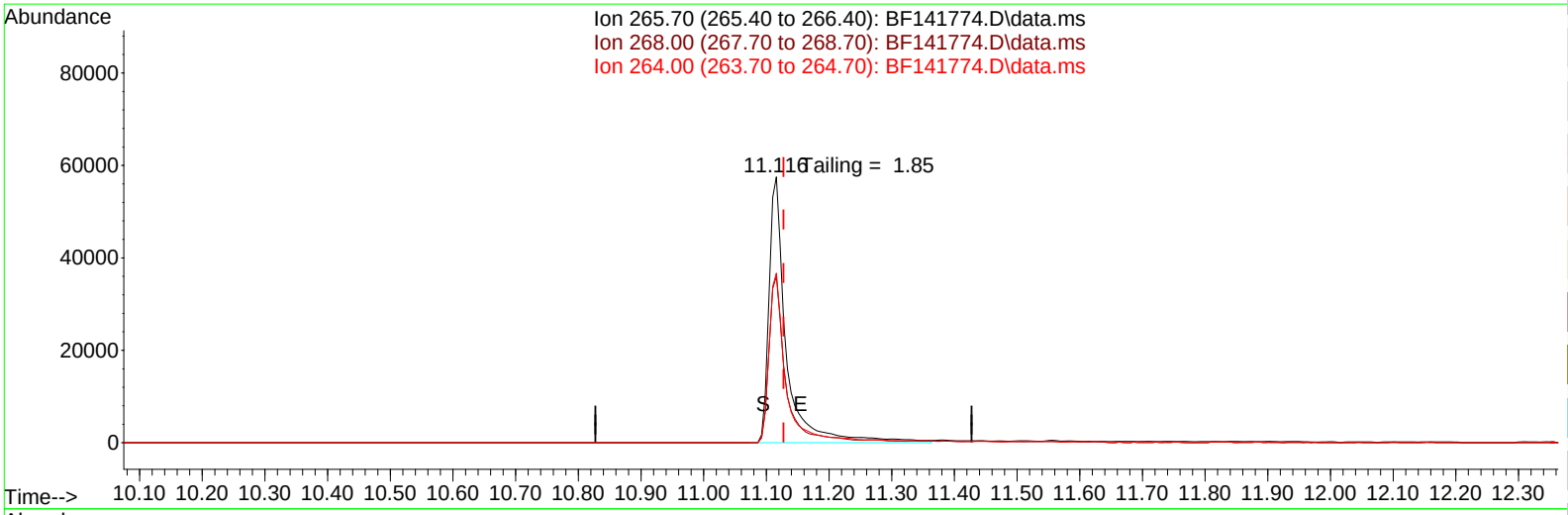
AutoFind: Scans 1608, 1609, 1610; Background Corrected with Scan 1601

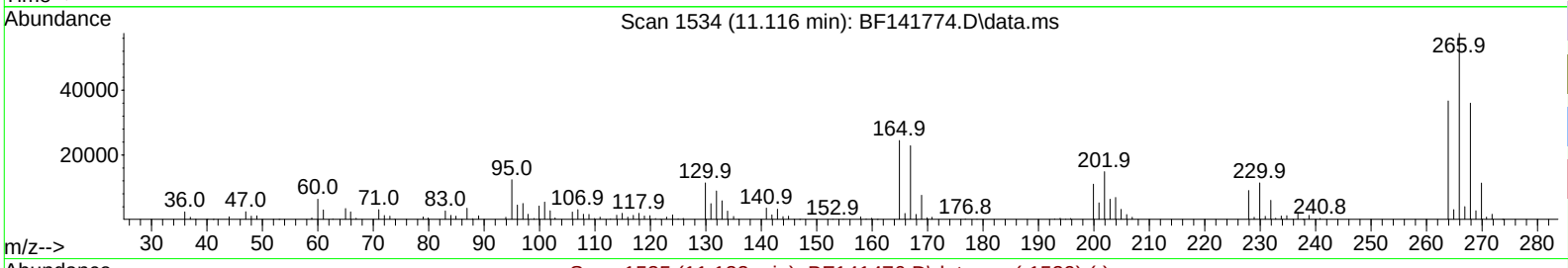
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.0	43792	PASS
68	69	0.00	2	1.9	769	PASS
69	198	0.00	100	33.5	39664	PASS
70	69	0.00	2	0.4	146	PASS
127	198	10	80	47.6	56291	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	118229	PASS
199	198	5	9	6.8	7983	PASS
275	198	10	60	27.2	32213	PASS
365	198	1	100	3.3	3888	PASS
441	198	0.01	100	14.0	16583	PASS
442	442	50	100	100.0	104443	PASS
443	442	15	24	18.9	19701	PASS

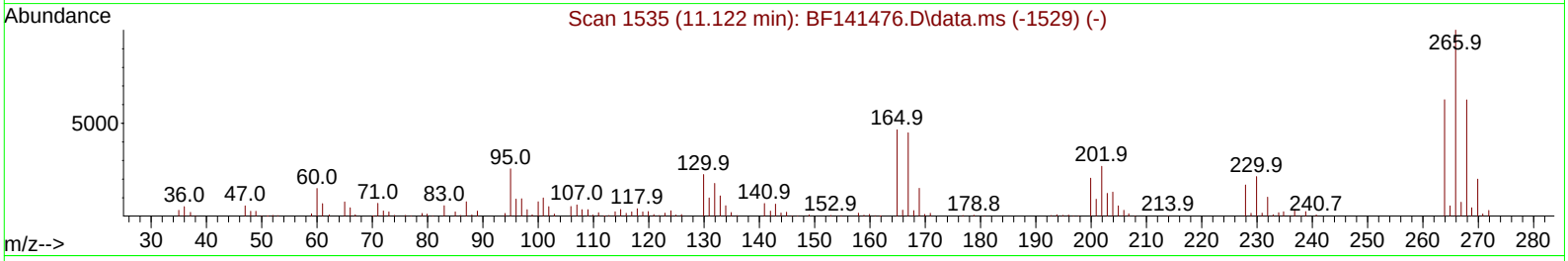
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141774.D
Acq On : 26 Feb 2025 10:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 26 11:20:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration







TIC: BF141774.D\data.ms

(70) Pentachlorophenol (C)

11.116min (-0.012) 20690.83 ng

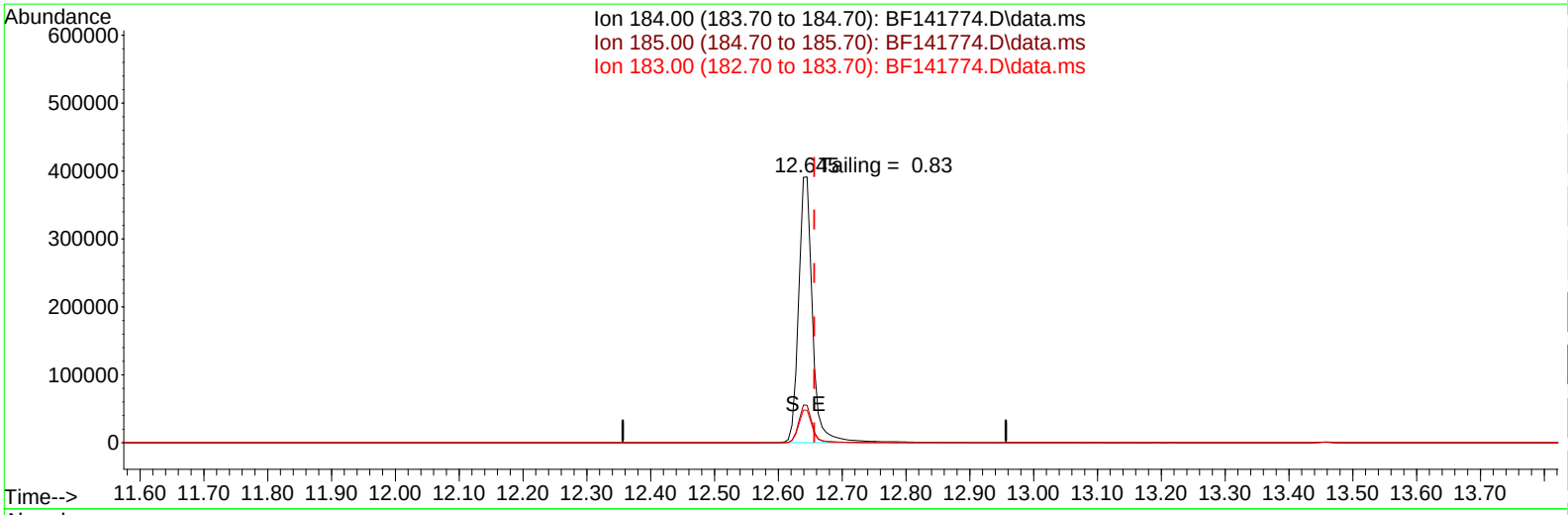
response 111911

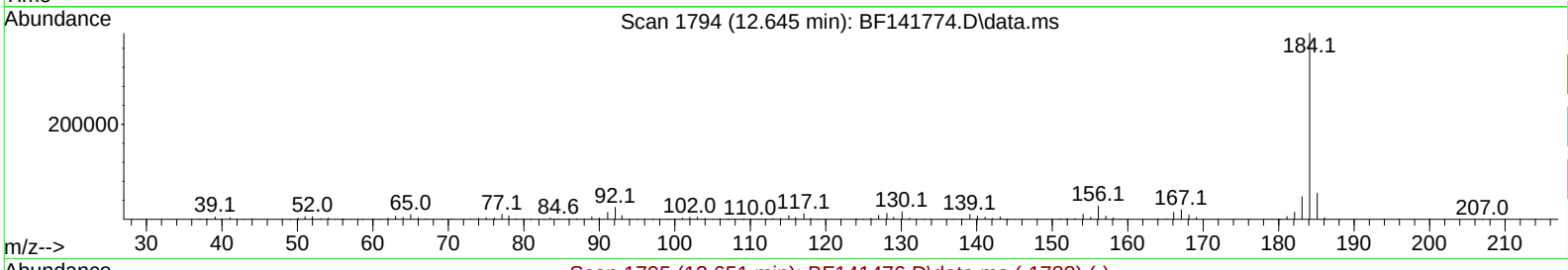
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.60	62.57
264.00	62.60	63.80
0.00	0.00	0.00

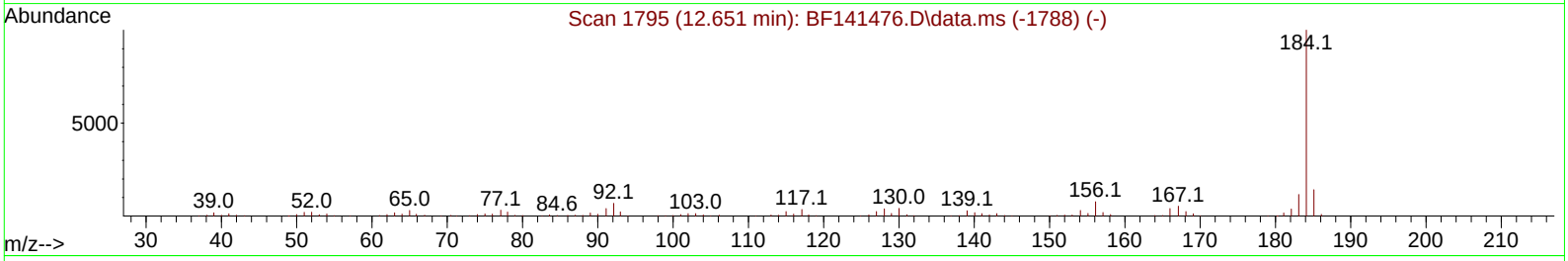
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141774.D
Acq On : 26 Feb 2025 10:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 26 11:20:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration







TIC: BF141774.D\data.ms

(77) Benzidine

12.645min (-0.012) 57427.54 ng

response 596534

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.12
183.00	11.60	12.25
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/26/2025	BNA_F	BF141774.D
Compound Name	**Response**	**Retention Time**
DDT	345364	13.457
DDD	14023	13.163
DDE	1091	12.827
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
15114	360478	4.19

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	PB166853BL			SDG No.:	Q1421
Lab Sample ID:	PB166853BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
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
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.8	U	82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	170	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	170	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	170	ug/Kg
105-60-2	Caprolactam	86.7	U	86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	170	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	PB166853BL	SDG No.:	Q1421
Lab Sample ID:	PB166853BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.4	U	86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	170	ug/Kg
83-32-9	Acenaphthene	81.0	U	81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	170	ug/Kg
84-66-2	Diethylphthalate	80.0	U	80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.5	U	81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	170	ug/Kg
87-86-5	Pentachlorophenol	77.2	U	77.2	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	170	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.0	U	81.0	170	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	PB166853BL			SDG No.:	Q1421
Lab Sample ID:	PB166853BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
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
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.0	U	78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.0	U	80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	141		18 - 112	94%	SPK: 150
13127-88-3	Phenol-d6	133		15 - 107	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.7		18 - 107	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.0		20 - 109	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		10 - 116	90%	SPK: 150
1718-51-0	Terphenyl-d14	104		10 - 105	104%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81300	6.781			
1146-65-2	Naphthalene-d8	324000	8.063			
15067-26-2	Acenaphthene-d10	178000	9.816			
1517-22-2	Phenanthrene-d10	318000	11.298			
1719-03-5	Chrysene-d12	217000	13.939			
1520-96-3	Perylene-d12	172000	15.386			

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\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Time: Feb 26 12:11:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

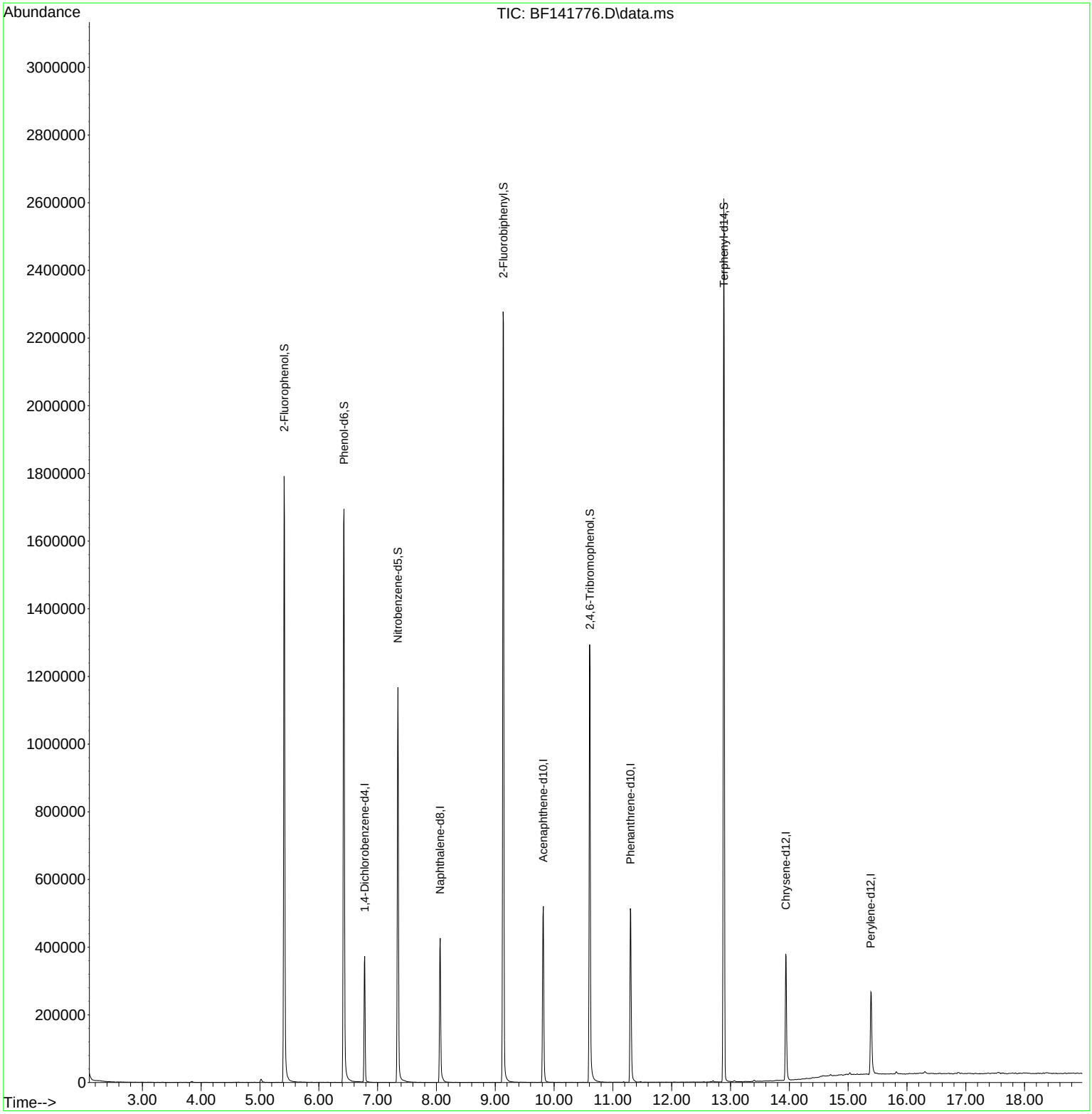
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	81286	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	323646	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	177621	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	318142	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	217249	20.000	ng	-0.02
86) Perylene-d12	15.386	264	172479	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	728584	140.520	ng	0.00
7) Phenol-d6	6.428	99	871422	132.975	ng	-0.01
23) Nitrobenzene-d5	7.345	82	562566	90.662	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	241346	135.262	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	1118399	97.007	ng	-0.01
79) Terphenyl-d14	12.886	244	1339199	104.065	ng	-0.02
Target Compounds						Qvalue

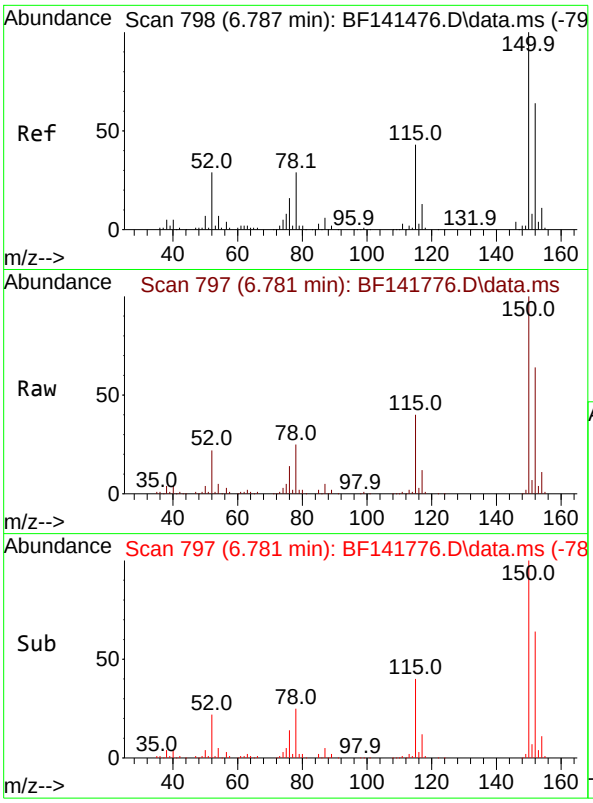
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Time: Feb 26 12:11:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



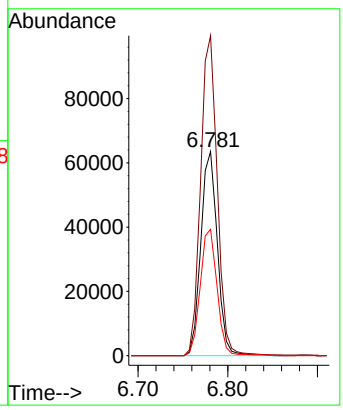


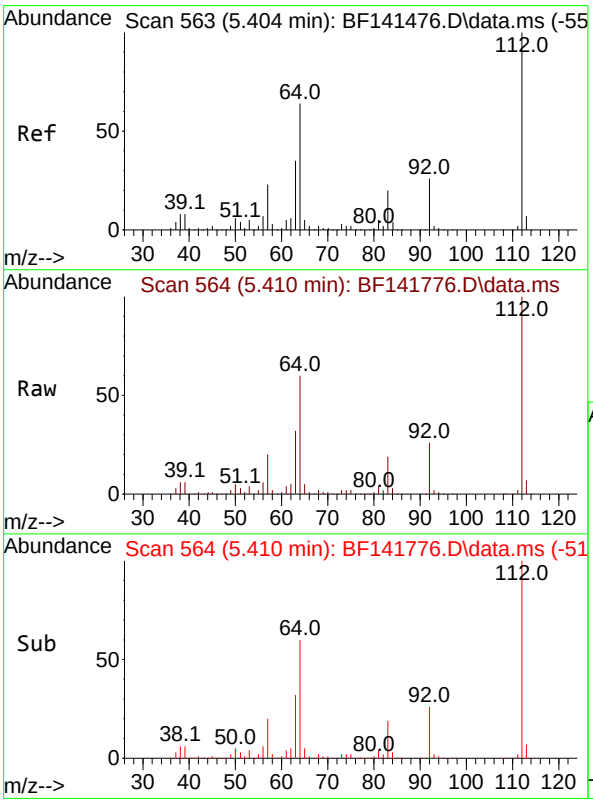
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:152 Resp: 81286

Ion	Ratio	Lower	Upper
152	100		
150	156.7	125.0	187.4
115	61.9	53.6	80.4

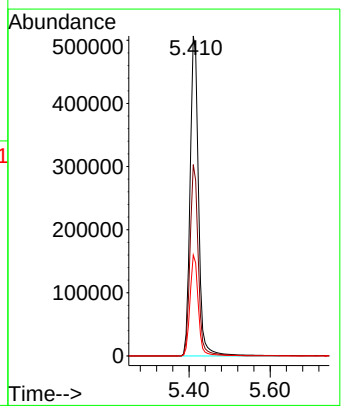


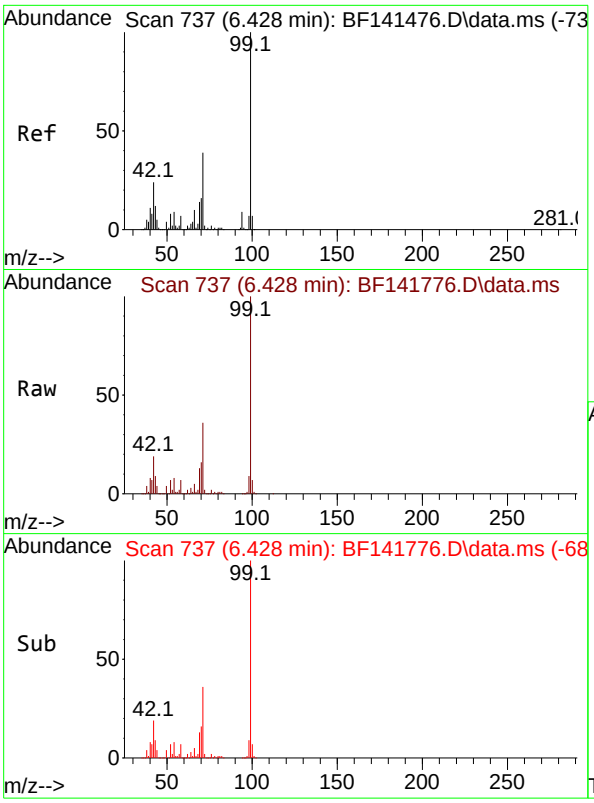


#5
2-Fluorophenol
Concen: 140.520 ng
RT: 5.410 min Scan# 564
Delta R.T. 0.000 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:112 Resp: 728584

Ion	Ratio	Lower	Upper
112	100		
64	59.8	51.1	76.7
63	31.6	28.4	42.6



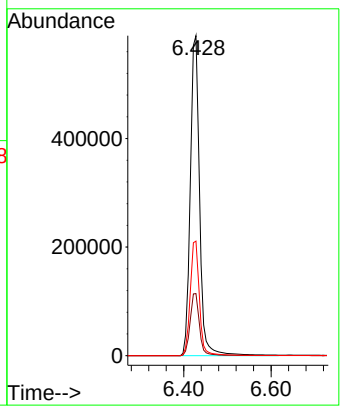


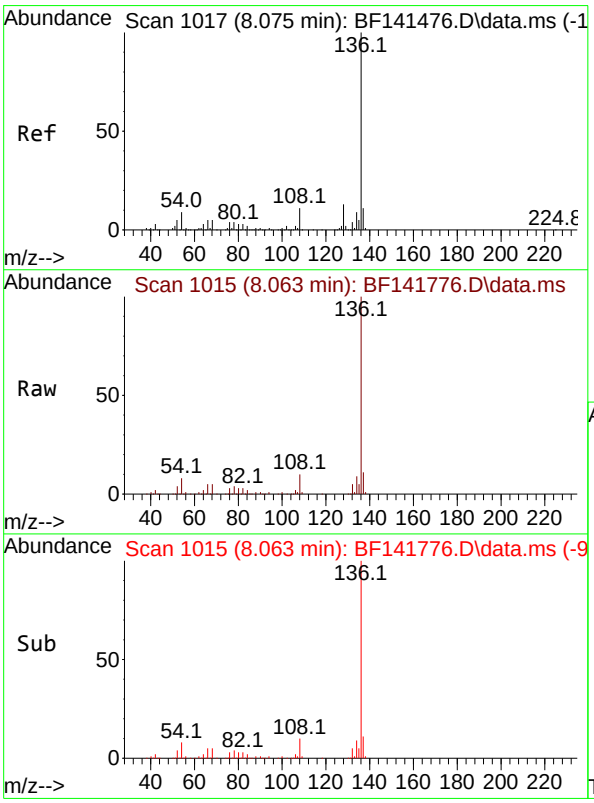
#7
Phenol-d6
Concen: 132.975 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion: 99 Resp: 871422

Ion	Ratio	Lower	Upper
99	100		
42	19.4	19.1	28.7
71	35.8	31.1	46.7

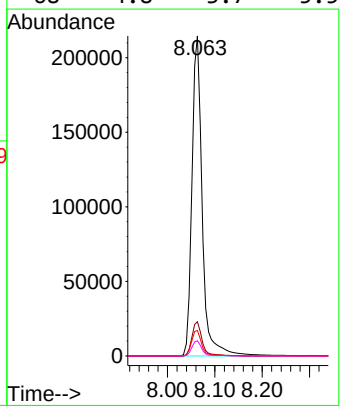


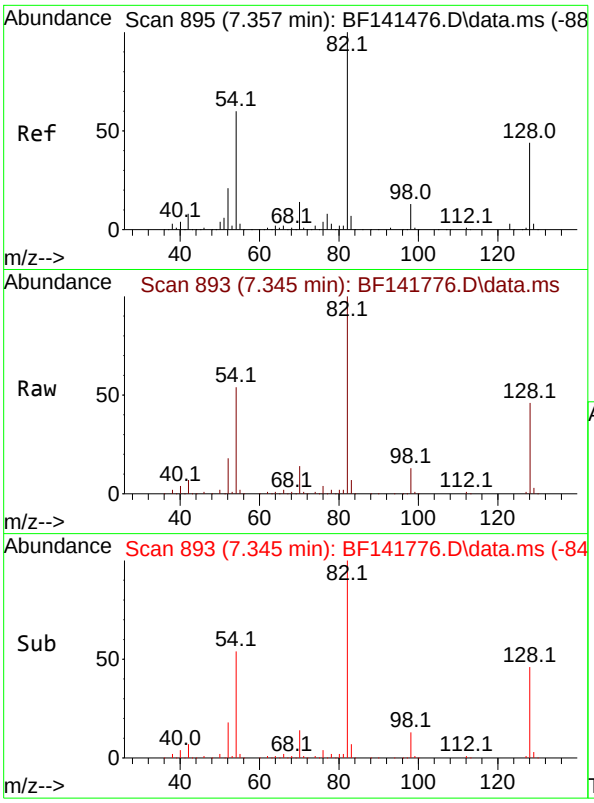


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:136 Resp: 323646

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	7.9	7.2	10.8
68	4.8	3.7	5.5



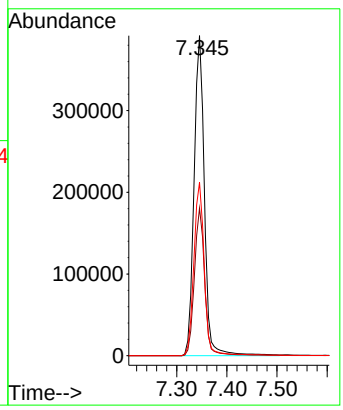


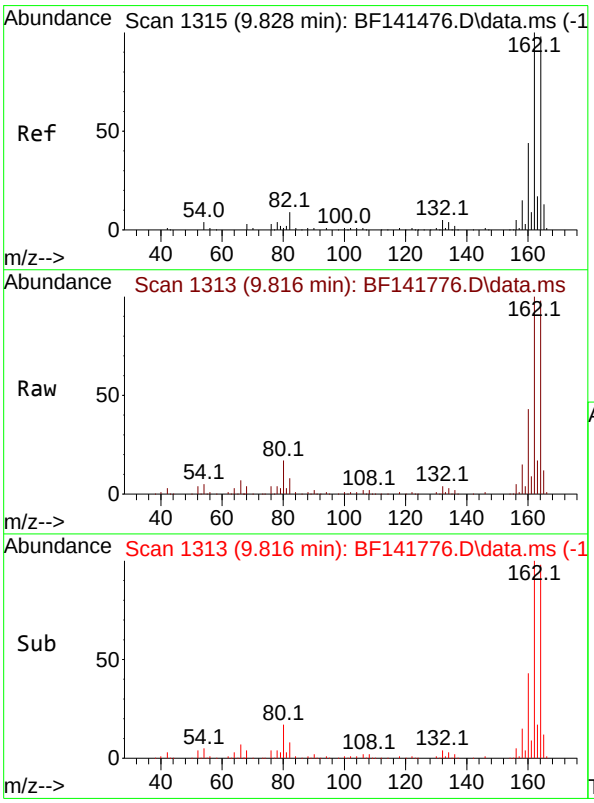
#23
Nitrobenzene-d5
Concen: 90.662 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion: 82 Resp: 562566

Ion	Ratio	Lower	Upper
82	100		
128	46.1	34.8	52.2
54	54.1	48.2	72.4

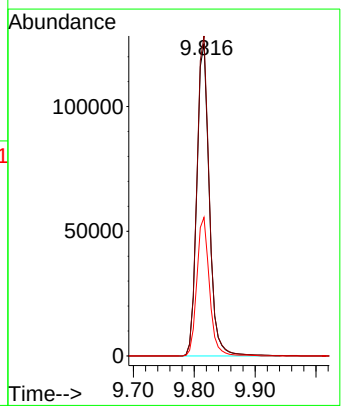


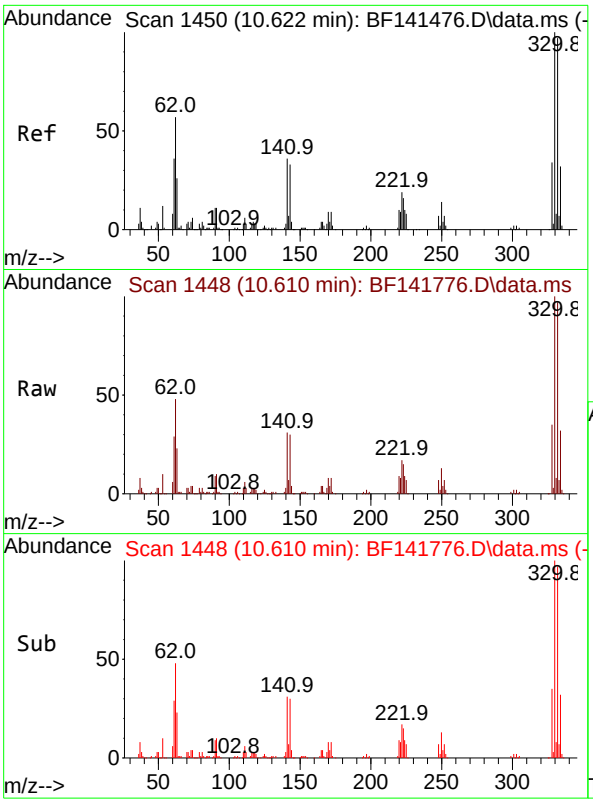


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:164 Resp: 177621

Ion	Ratio	Lower	Upper
164	100		
162	102.4	81.3	121.9
160	44.4	35.9	53.9



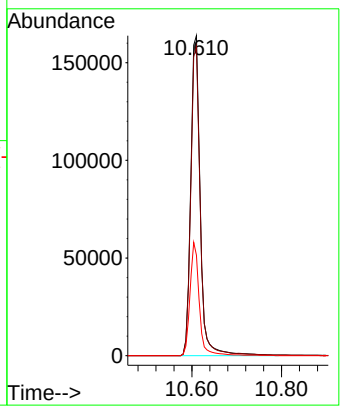


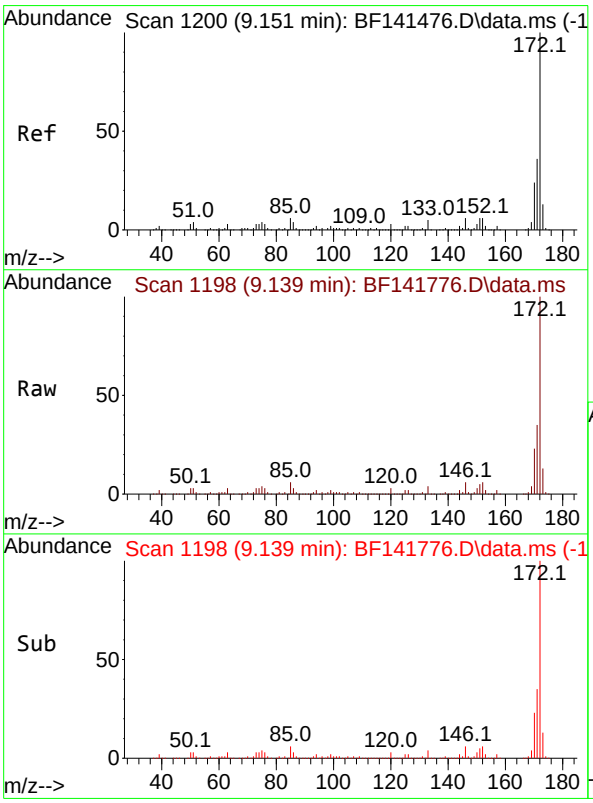
#42
2,4,6-Tribromophenol
Concen: 135.262 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:330 Resp: 241346

Ion	Ratio	Lower	Upper
330	100		
332	97.1	78.5	117.7
141	34.8	31.0	46.4

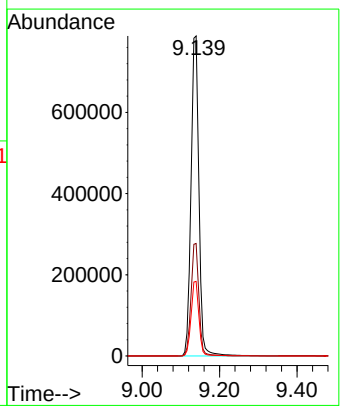


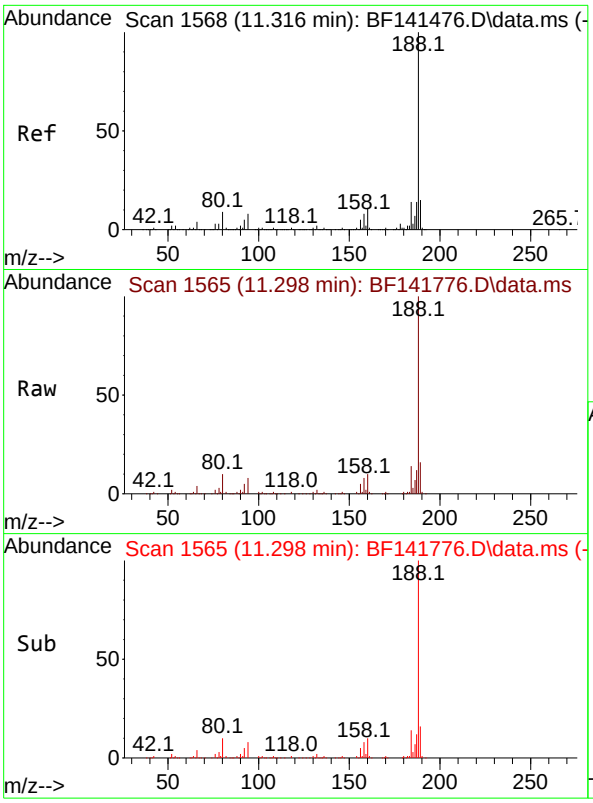


#45
2-Fluorobiphenyl
Concen: 97.007 ng
RT: 9.139 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:172 Resp: 1118399

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.7	43.1
170	23.3	18.9	28.3



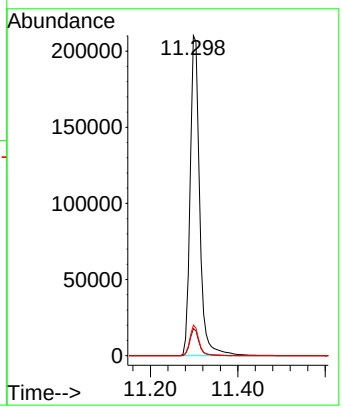


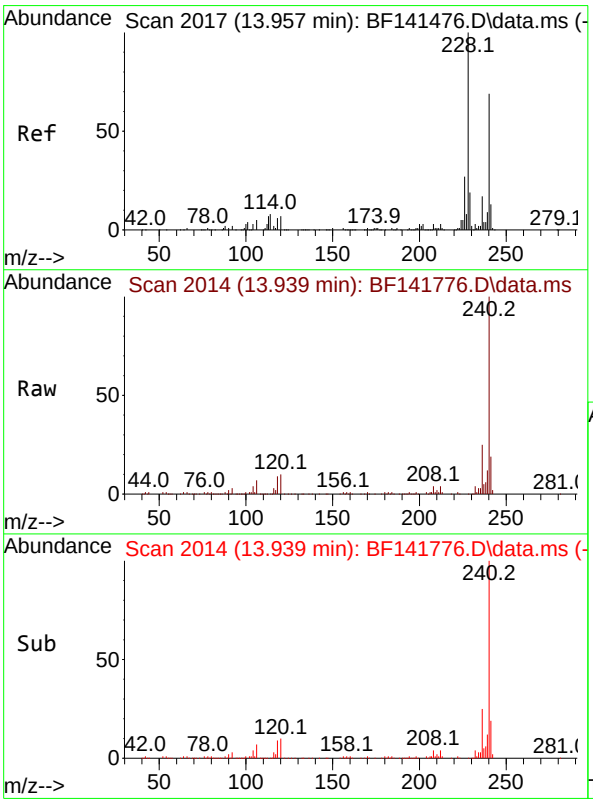
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:188 Resp: 318142

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.6	7.3	10.9

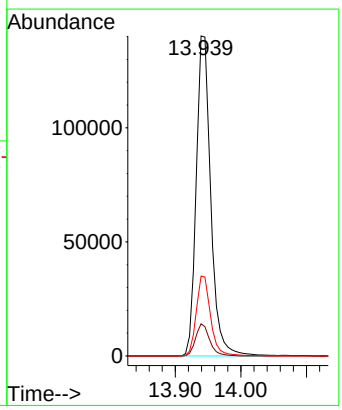


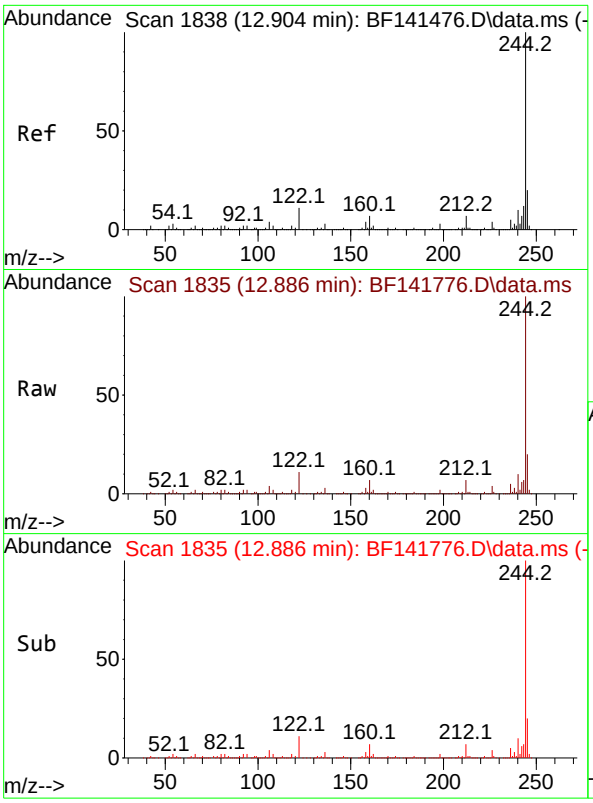


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:240 Resp: 217249

Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.0	12.0
236	24.9	19.8	29.8



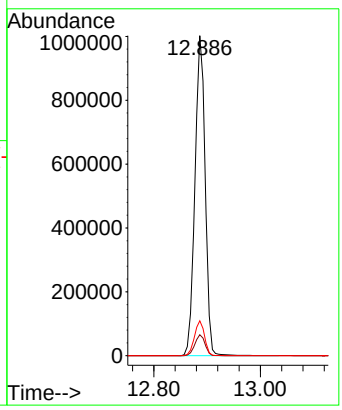


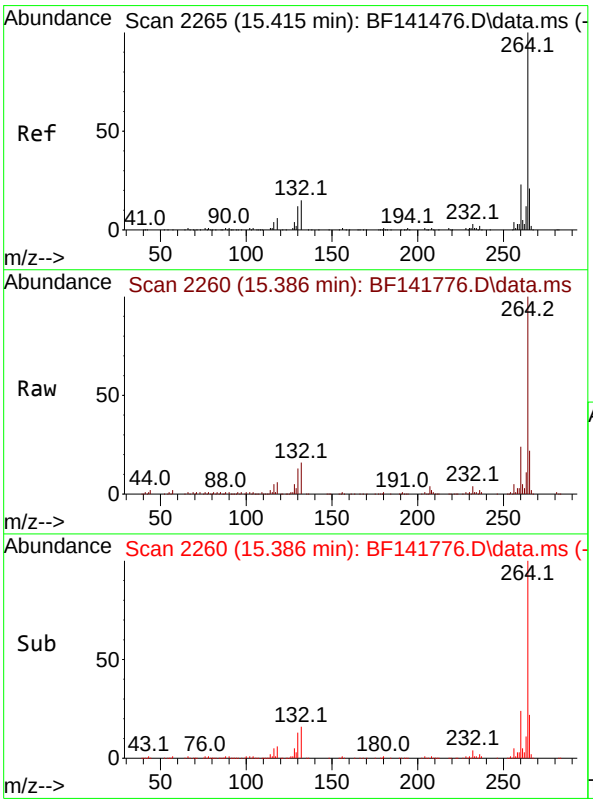
#79
Terphenyl-d14
Concen: 104.065 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:244 Resp: 1339199

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.9	8.4	12.6

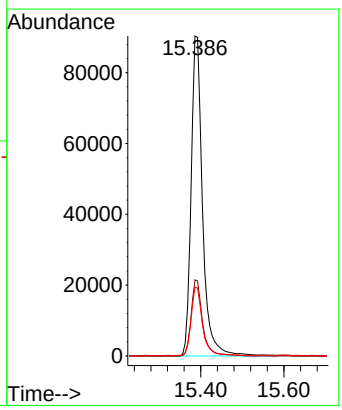




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:264 Resp: 172479

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	21.5	17.0	25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141776.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.410	559	564	592	rBV	1791256	2537814	73.52%	13.446%
2	6.428	731	737	771	rBV	1693710	2506219	72.61%	13.279%
3	6.781	792	797	813	rVB	371805	480196	13.91%	2.544%
4	7.345	887	893	922	rBV	1167216	1673975	48.50%	8.869%
5	8.063	1009	1015	1034	rBV	426239	631629	18.30%	3.347%
6	9.134	1191	1197	1231	rBV	2277833	3198026	92.65%	16.945%
7	9.816	1307	1313	1334	rBV	520195	734935	21.29%	3.894%
8	10.604	1442	1447	1479	rBV	1293803	1878893	54.43%	9.955%
9	11.298	1560	1565	1585	rBV	513083	761297	22.06%	4.034%
10	12.886	1829	1835	1840	rBV	2609654	3451671	100.00%	18.288%
11	13.939	2009	2014	2029	rBV	373186	562712	16.30%	2.981%
12	15.386	2254	2260	2272	rBV	243364	456086	13.21%	2.417%

Sum of corrected areas: 18873453

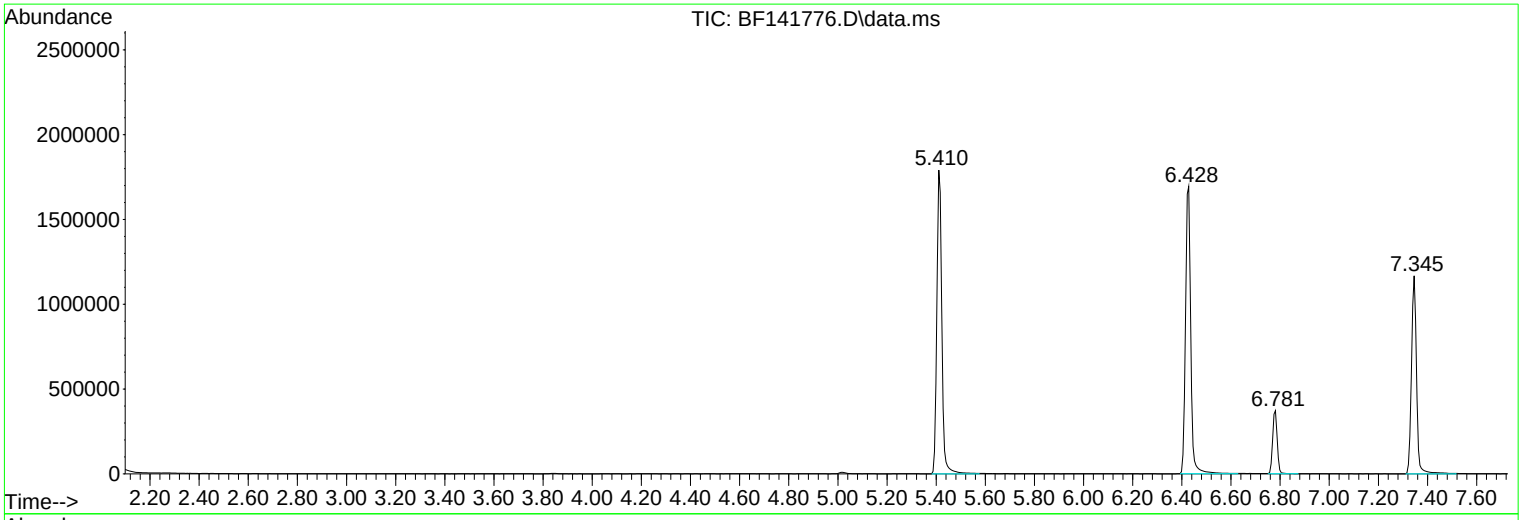
Sample Results: **BF141776.D**

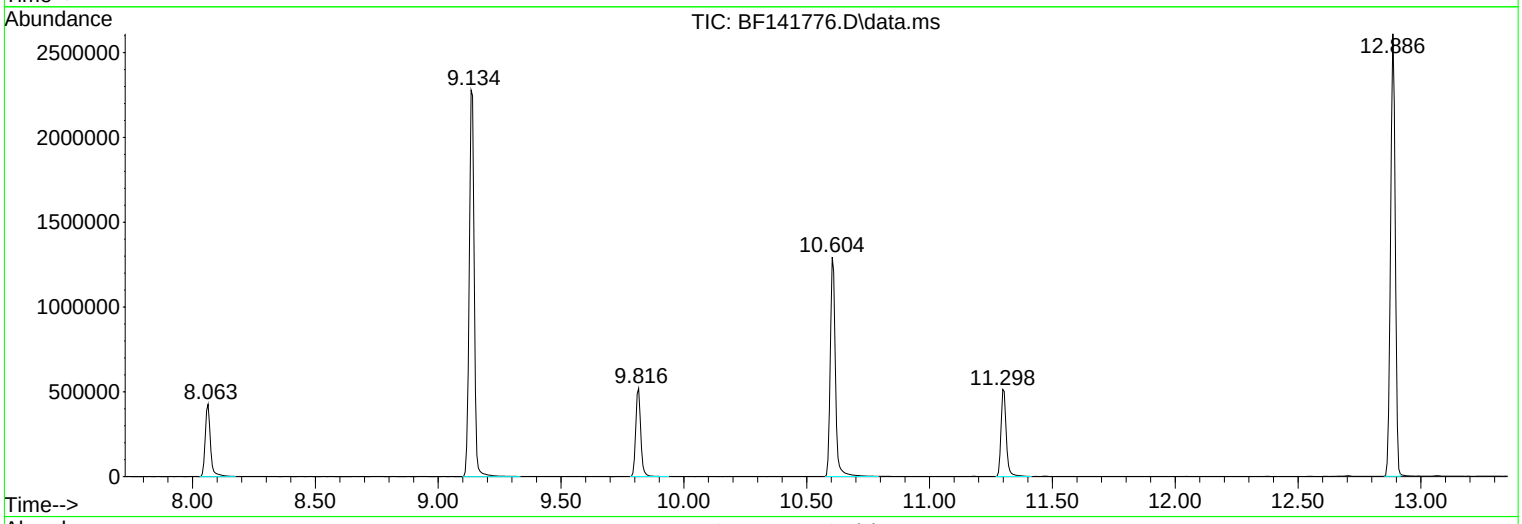
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

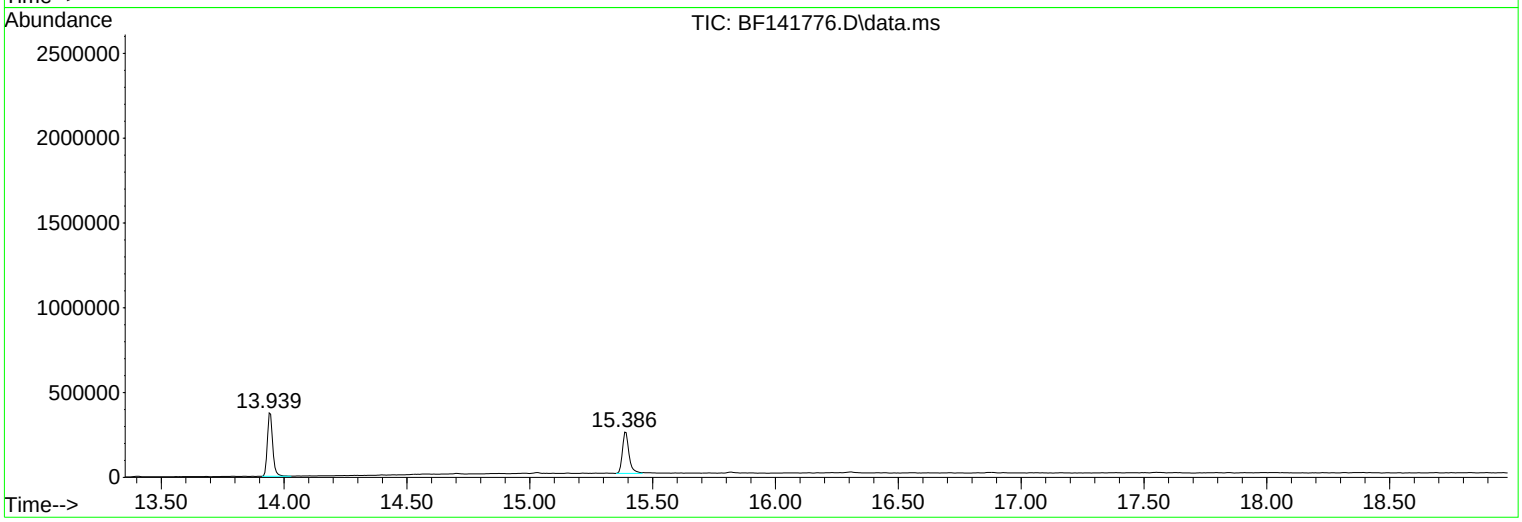
Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	PB166853BS	SDG No.:	Q1421
Lab Sample ID:	PB166853BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	950		180	330	ug/Kg
108-95-2	Phenol	1400		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		83.7	170	ug/Kg
95-57-8	2-Chlorophenol	1500		83.5	170	ug/Kg
95-48-7	2-Methylphenol	1500		80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		90.9	170	ug/Kg
98-86-2	Acetophenone	1600		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1500		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.8	170	ug/Kg
78-59-1	Isophorone	1500		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1500		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		75.5	170	ug/Kg
91-20-3	Naphthalene	1400		82.6	170	ug/Kg
106-47-8	4-Chloroaniline	740		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.3	170	ug/Kg
105-60-2	Caprolactam	1700		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4300	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1400		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.7	170	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	PB166853BS			SDG No.:	Q1421
Lab Sample ID:	PB166853BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
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
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	910		89.2	170	ug/Kg
83-32-9	Acenaphthene	1400		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3000	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	2600		120	330	ug/Kg
132-64-9	Dibenzofuran	1400		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		85.6	170	ug/Kg
86-73-7	Fluorene	1500		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1500		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		85.0	170	ug/Kg
1912-24-9	Atrazine	2000		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	2400		77.3	330	ug/Kg
85-01-8	Phenanthrene	1500		84.0	170	ug/Kg
120-12-7	Anthracene	1600		84.4	170	ug/Kg
86-74-8	Carbazole	1500		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.3	170	ug/Kg
206-44-0	Fluoranthene	1500		81.7	170	ug/Kg
129-00-0	Pyrene	1700		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.7	170	ug/Kg
218-01-9	Chrysene	1600		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	2100		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.1	170	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	PB166853BS			SDG No.:	Q1421
Lab Sample ID:	PB166853BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
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
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1400		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	138		18 - 112	92%	SPK: 150
13127-88-3	Phenol-d6	131		15 - 107	88%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.9		18 - 107	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.9		20 - 109	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		10 - 116	96%	SPK: 150
1718-51-0	Terphenyl-d14	116	*	10 - 105	116%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81700	6.781			
1146-65-2	Naphthalene-d8	332000	8.063			
15067-26-2	Acenaphthene-d10	180000	9.816			
1517-22-2	Phenanthrene-d10	319000	11.304			
1719-03-5	Chrysene-d12	192000	13.945			
1520-96-3	Perylene-d12	177000	15.386			

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\BF022625\
Data File : BF141777.D
Acq On : 26 Feb 2025 12:19
Operator : RC/JU
Sample : PB166853BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 13:24:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	81688	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	331787	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	180365	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	319305	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	191917	20.000	ng		-0.02
86) Perylene-d12	15.386	264	177241	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	716848	137.576	ng		0.00
7) Phenol-d6	6.428	99	865294	131.390	ng		-0.01
23) Nitrobenzene-d5	7.351	82	558919	87.864	ng		-0.01
42) 2,4,6-Tribromophenol	10.610	330	262131	144.676	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	1122463	95.879	ng		-0.01
79) Terphenyl-d14	12.886	244	1319483	116.067	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.569	88	86876	41.426	ng		94
3) Pyridine	3.304	79	204895	41.058	ng		91
4) n-Nitrosodimethylamine	3.252	42	121475	36.762	ng		87
6) Aniline	6.445	93	218407	35.354	ng	#	73
8) 2-Chlorophenol	6.575	128	257670	45.766	ng		97
9) Benzaldehyde	6.334	77	100149	28.617	ng		97
10) Phenol	6.445	94	297590	43.416	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	236565	45.949	ng		97
12) 1,3-Dichlorobenzene	6.722	146	268531	45.177	ng		97
13) 1,4-Dichlorobenzene	6.798	146	269542	44.384	ng		99
14) 1,2-Dichlorobenzene	6.951	146	260378	46.195	ng		99
15) Benzyl Alcohol	6.928	79	214872	42.547	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.057	45	344765	39.119	ng		61
17) 2-Methylphenol	7.051	107	195576	44.389	ng		94
18) Hexachloroethane	7.287	117	100289	44.622	ng		97
19) n-Nitroso-di-n-propyla...	7.198	70	171908	43.639	ng		91
20) 3+4-Methylphenols	7.204	107	257970	46.071	ng	#	75
22) Acetophenone	7.192	105	390944	47.368	ng	#	91
24) Nitrobenzene	7.369	77	259378	41.815	ng		96
25) Isophorone	7.604	82	462376	45.587	ng		98
26) 2-Nitrophenol	7.681	139	138079	44.743	ng		92
27) 2,4-Dimethylphenol	7.728	122	201881	55.997	ng		97
28) bis(2-Chloroethoxy)met...	7.816	93	290160	44.645	ng		100
29) 2,4-Dichlorophenol	7.934	162	216937	44.535	ng		98
30) 1,2,4-Trichlorobenzene	8.004	180	233773	44.071	ng		99
31) Naphthalene	8.086	128	740758	42.891	ng		99
32) Benzoic acid	7.875	122	136752	36.518	ng		97
33) 4-Chloroaniline	8.139	127	134615	22.325	ng		97
34) Hexachlorobutadiene	8.198	225	142354	44.702	ng		99
35) Caprolactam	8.516	113	76597m	51.646	ng		
36) 4-Chloro-3-methylphenol	8.633	107	234899	43.534	ng		100
37) 2-Methylnaphthalene	8.775	142	471459	41.950	ng		99
38) 1-Methylnaphthalene	8.875	142	460135	42.273	ng		99
40) 1,2,4,5-Tetrachloroben...	8.945	216	261645	50.141	ng		98
41) Hexachlorocyclopentadiene	8.928	237	221790	127.788	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	150125	44.513	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141777.D
Acq On : 26 Feb 2025 12:19
Operator : RC/JU
Sample : PB166853BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 13:24:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	162948	44.581	ng	97
46) 1,1'-Biphenyl	9.239	154	686888	49.122	ng	99
47) 2-Chloronaphthalene	9.263	162	470296	45.482	ng	99
48) 2-Nitroaniline	9.369	65	146947	42.345	ng	89
49) Acenaphthylene	9.681	152	721764	46.929	ng	99
50) Dimethylphthalate	9.539	163	571666	46.687	ng	99
51) 2,6-Dinitrotoluene	9.610	165	125505	46.887	ng	92
52) Acenaphthene	9.851	154	448107	43.338	ng	99
53) 3-Nitroaniline	9.780	138	78775	27.343	ng	98
54) 2,4-Dinitrophenol	9.898	184	144884	91.073	ng	86
55) Dibenzofuran	10.022	168	650259	42.845	ng	98
56) 4-Nitrophenol	9.963	139	165178	77.235	ng	92
57) 2,4-Dinitrotoluene	10.016	165	167288	46.946	ng	99
58) Fluorene	10.369	166	534517	45.550	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	141879	45.087	ng	94
60) Diethylphthalate	10.239	149	555522	46.112	ng	100
61) 4-Chlorophenyl-phenyle...	10.357	204	264126	46.786	ng	97
62) 4-Nitroaniline	10.398	138	129151	44.149	ng	93
63) Azobenzene	10.516	77	510011	42.585	ng	95
65) 4,6-Dinitro-2-methylph...	10.428	198	96796	43.640	ng	90
66) n-Nitrosodiphenylamine	10.480	169	466927	45.682	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	167414	46.912	ng	99
68) Hexachlorobenzene	10.916	284	174013	47.354	ng	98
69) Atrazine	11.010	200	183372	59.801	ng	99
70) Pentachlorophenol	11.116	266	172467	73.399	ng	100
71) Phenanthrene	11.327	178	795359	45.252	ng	100
72) Anthracene	11.380	178	834948	47.256	ng	100
73) Carbazole	11.539	167	713496	44.880	ng	99
74) Di-n-butylphthalate	11.863	149	878298	47.846	ng	99
75) Fluoranthene	12.516	202	832656	44.684	ng	99
77) Benzidine	12.639	184	212949	50.312	ng	99
78) Pyrene	12.745	202	829507	50.774	ng	99
80) Butylbenzylphthalate	13.357	149	311733	55.088	ng	98
81) Benzo(a)anthracene	13.933	228	616649	48.337	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	123372	33.760	ng	98
83) Chrysene	13.968	228	555284	47.140	ng	99
84) Bis(2-ethylhexyl)phtha...	13.916	149	394616	61.830	ng	100
85) Di-n-octyl phthalate	14.527	149	565858	62.150	ng	96
87) Indeno(1,2,3-cd)pyrene	16.827	276	565885	51.672	ng	99
88) Benzo(b)fluoranthene	14.968	252	481397	40.451	ng	99
89) Benzo(k)fluoranthene	14.998	252	411471	40.490	ng	99
90) Benzo(a)pyrene	15.327	252	468144	48.614	ng	98
91) Dibenzo(a,h)anthracene	16.839	278	461450	52.001	ng	99
92) Benzo(g,h,i)perylene	17.262	276	439909	47.372	ng	100

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

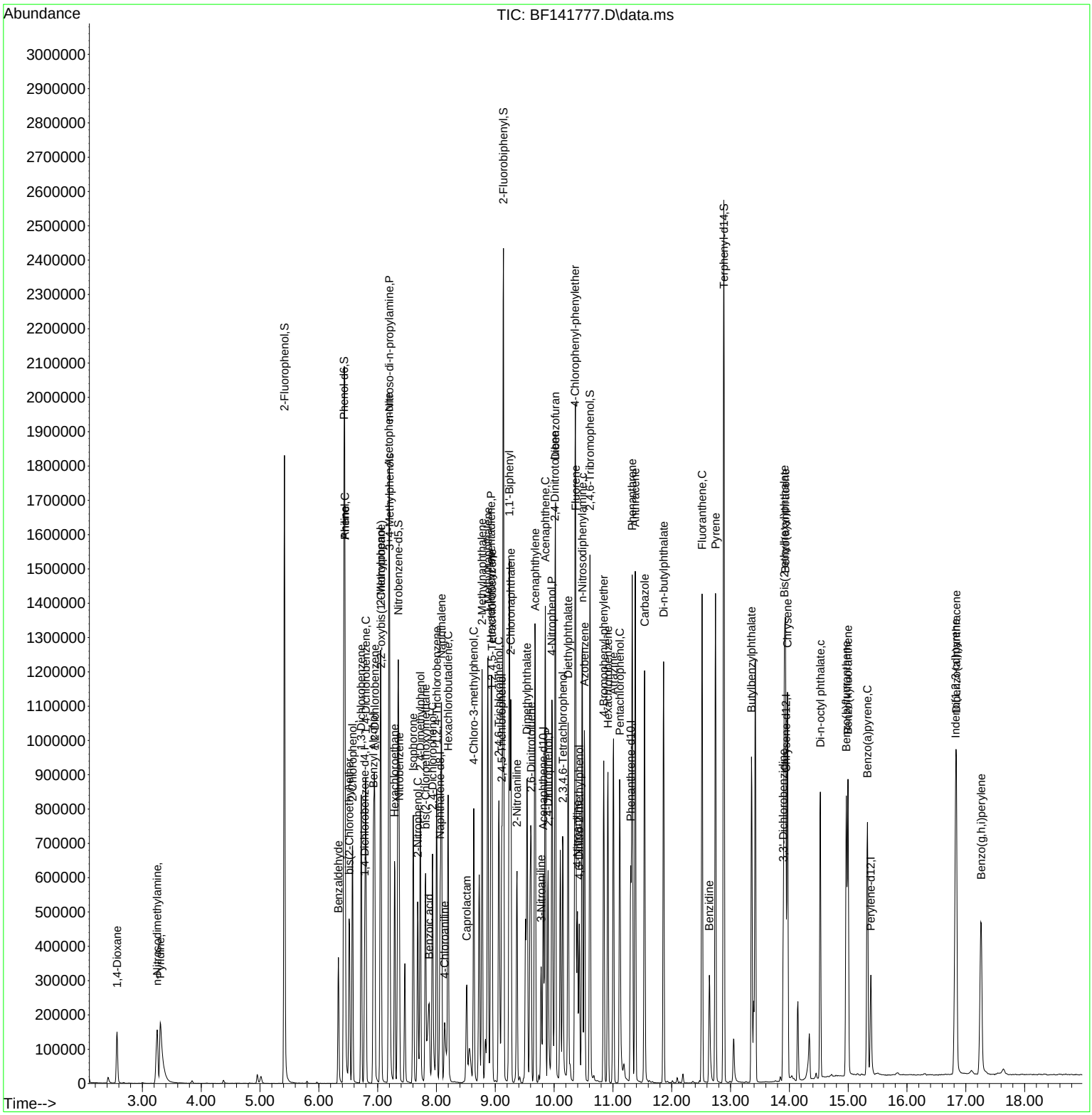
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141777.D
Acq On : 26 Feb 2025 12:19
Operator : RC/JU
Sample : PB166853BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

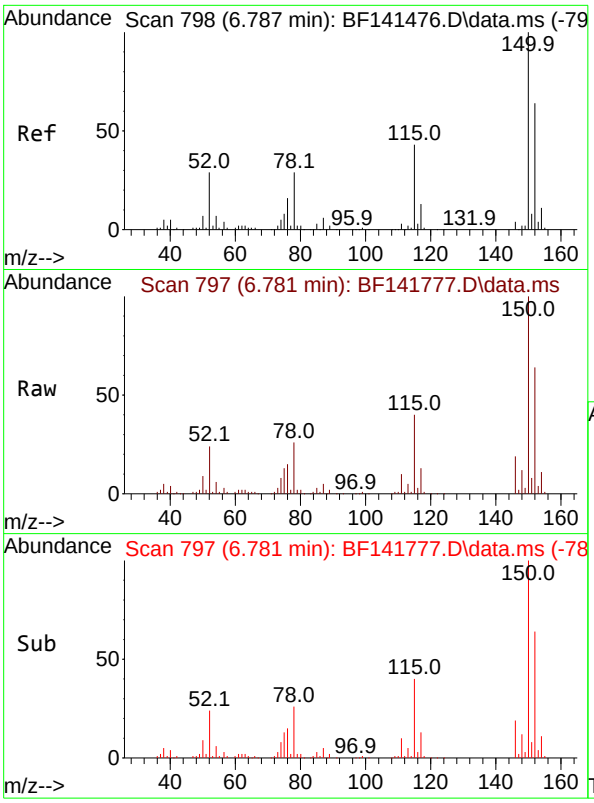
Quant Time: Feb 26 13:24:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

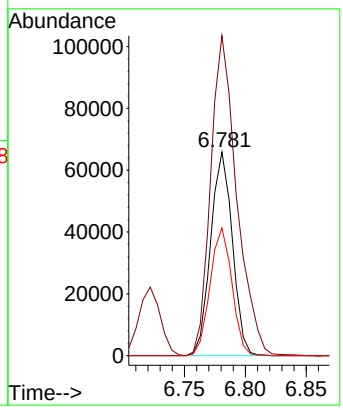




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:152 Resp: 8168

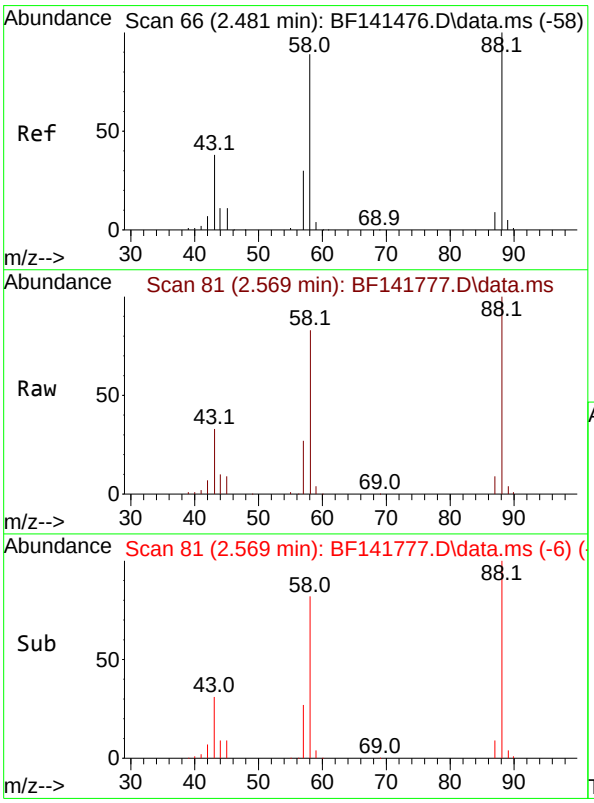
Ion	Ratio	Lower	Upper
152	100		
150	157.1	125.0	187.4
115	62.8	53.6	80.4



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

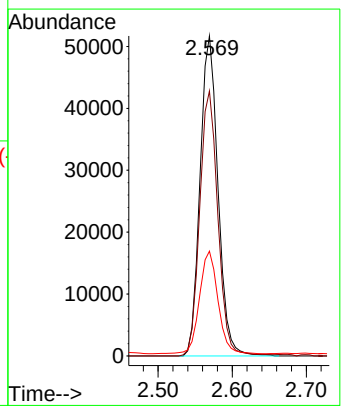
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

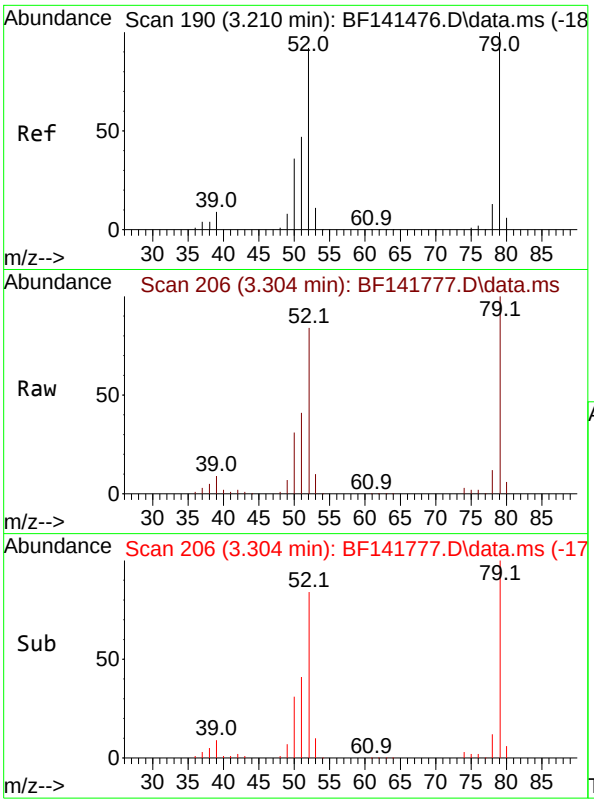


#2
1,4-Dioxane
Concen: 41.426 ng
RT: 2.569 min Scan# 81
Delta R.T. 0.088 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 88 Resp: 86876

Ion	Ratio	Lower	Upper
88	100		
58	83.8	71.1	106.7
43	33.1	30.6	46.0

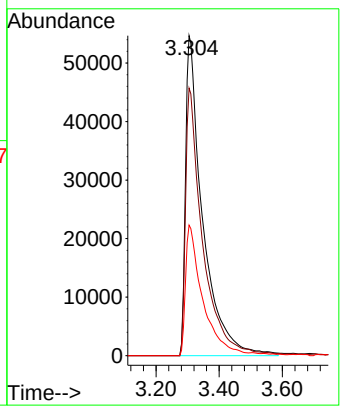




#3
Pyridine
Concen: 41.058 ng
RT: 3.304 min Scan# 2
Delta R.T. 0.088 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 79 Resp: 20489

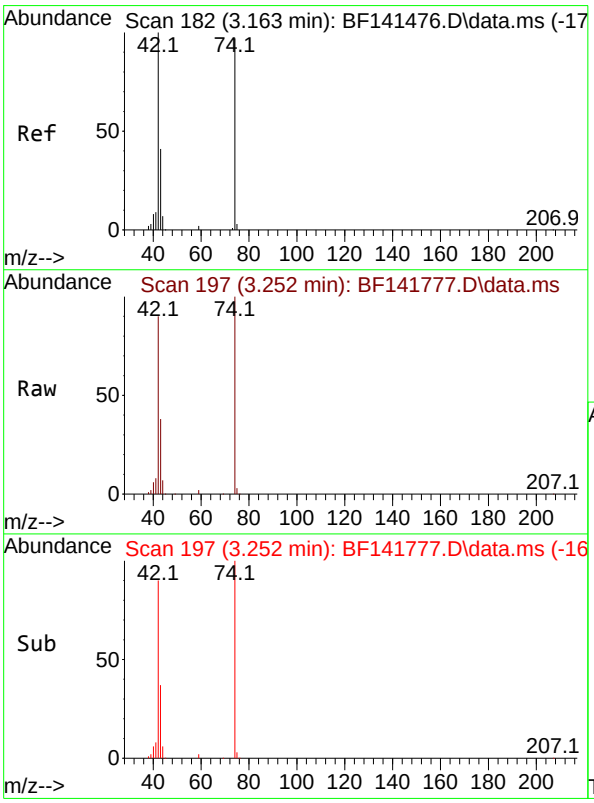
Ion	Ratio	Lower	Upper
79	100		
52	83.6	73.7	110.5
51	40.8	37.5	56.3



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

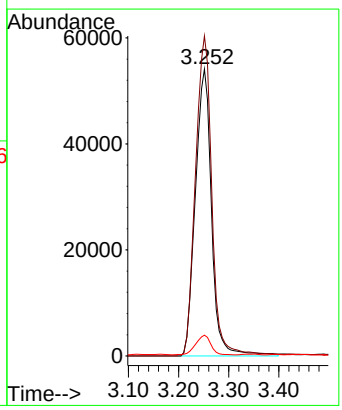
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

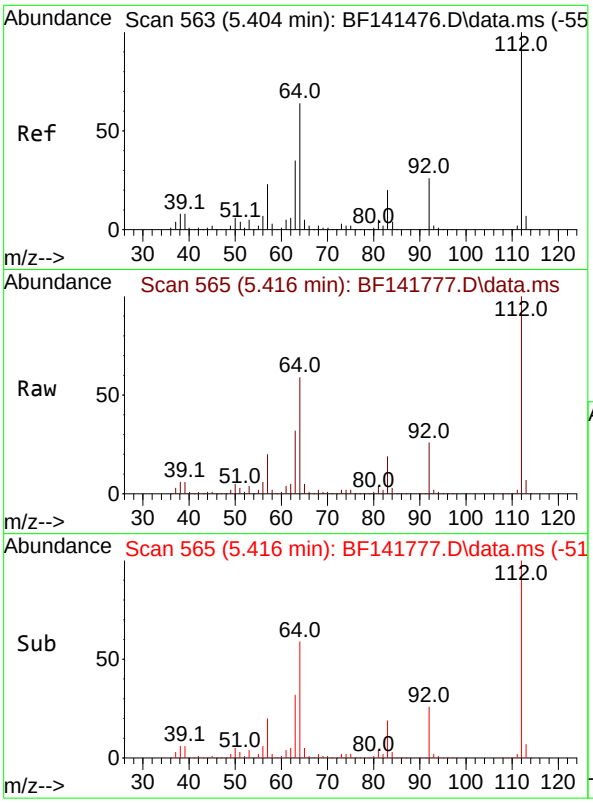


#4
n-Nitrosodimethylamine
Concen: 36.762 ng
RT: 3.252 min Scan# 197
Delta R.T. 0.065 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 42 Resp: 121475

Ion	Ratio	Lower	Upper
42	100		
74	111.5	78.0	117.0
44	7.3	5.4	8.2

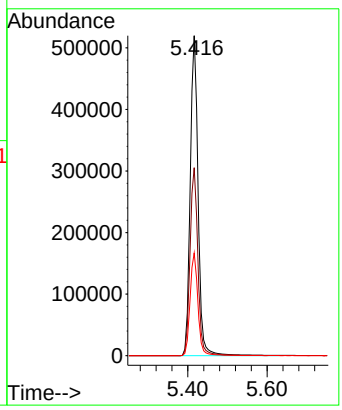




#5
2-Fluorophenol
Concen: 137.576 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:112 Resp: 71684

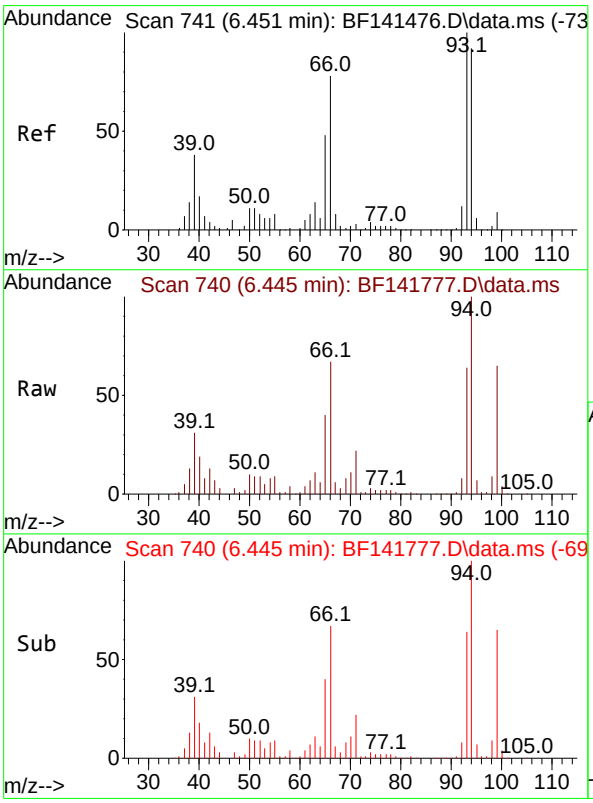
Ion	Ratio	Lower	Upper
112	100		
64	58.8	51.1	76.7
63	32.1	28.4	42.6



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

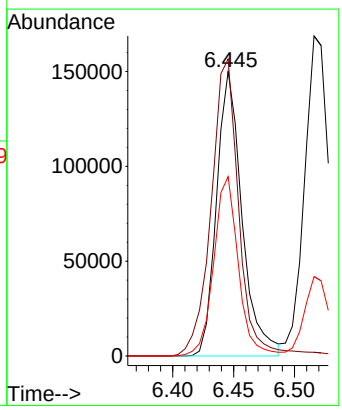
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

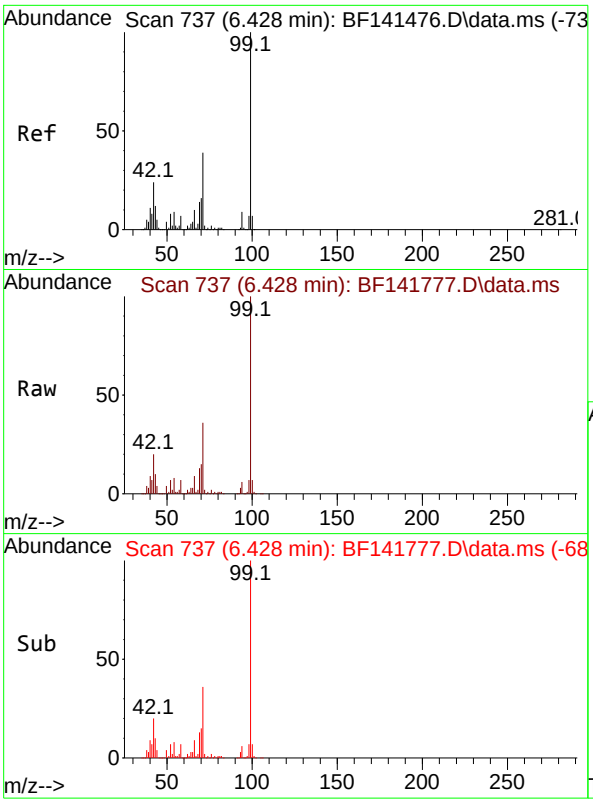


#6
Aniline
Concen: 35.354 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 93 Resp: 218407

Ion	Ratio	Lower	Upper
93	100		
66	104.4	62.6	94.0#
65	63.0	38.3	57.5#

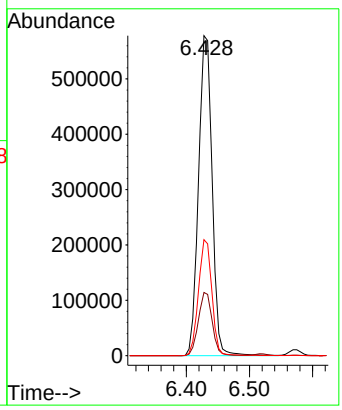




#7
Phenol-d6
Concen: 131.390 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 99 Resp: 86529

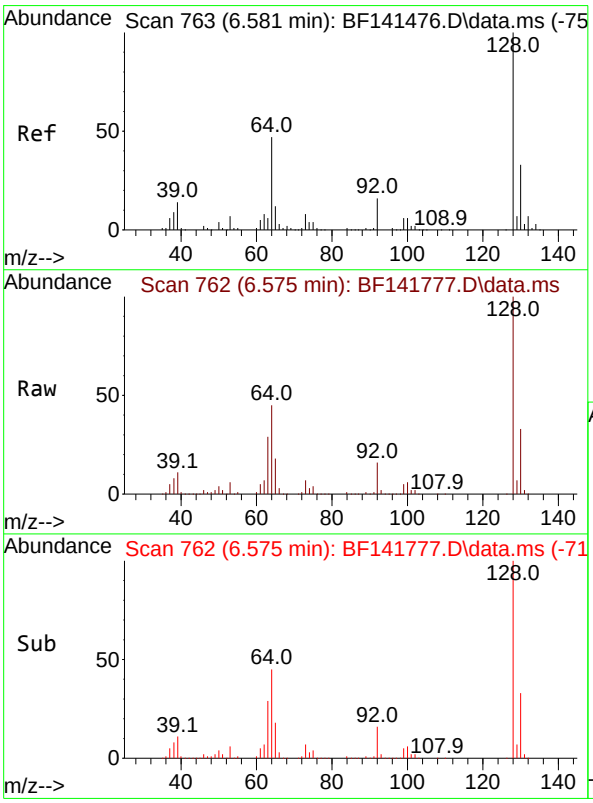
Ion	Ratio	Lower	Upper
99	100		
42	19.7	19.1	28.7
71	36.3	31.1	46.7



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

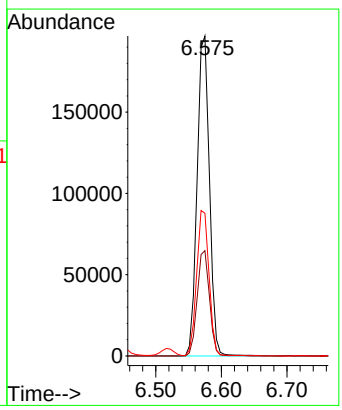
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

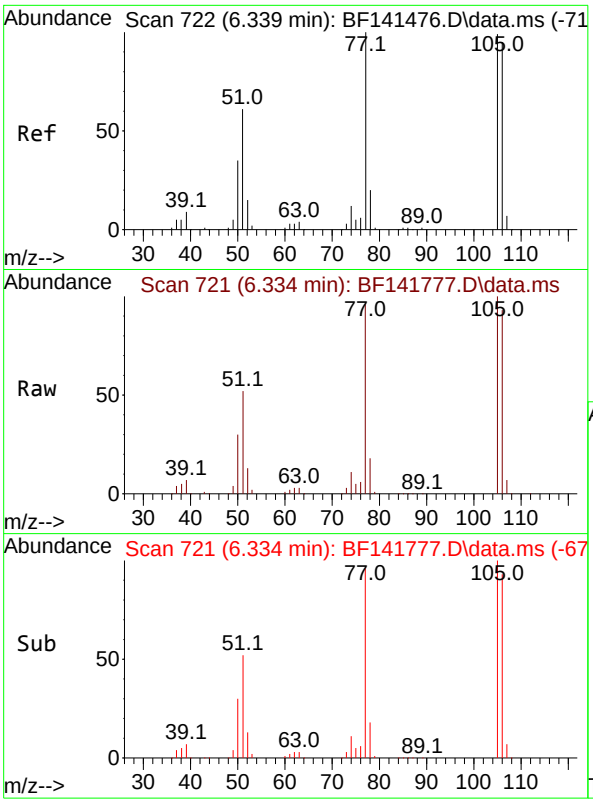


#8
2-Chlorophenol
Concen: 45.766 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:128 Resp: 257670

Ion	Ratio	Lower	Upper
128	100		
130	32.9	12.7	52.7
64	44.6	28.3	68.3

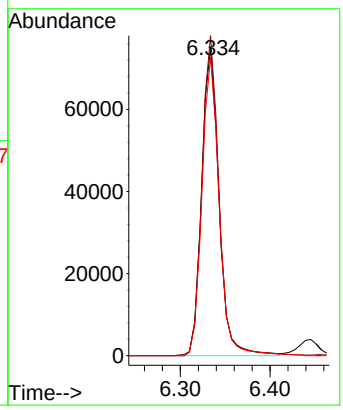




#9
Benzaldehyde
Concen: 28.617 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 77 Resp: 10014

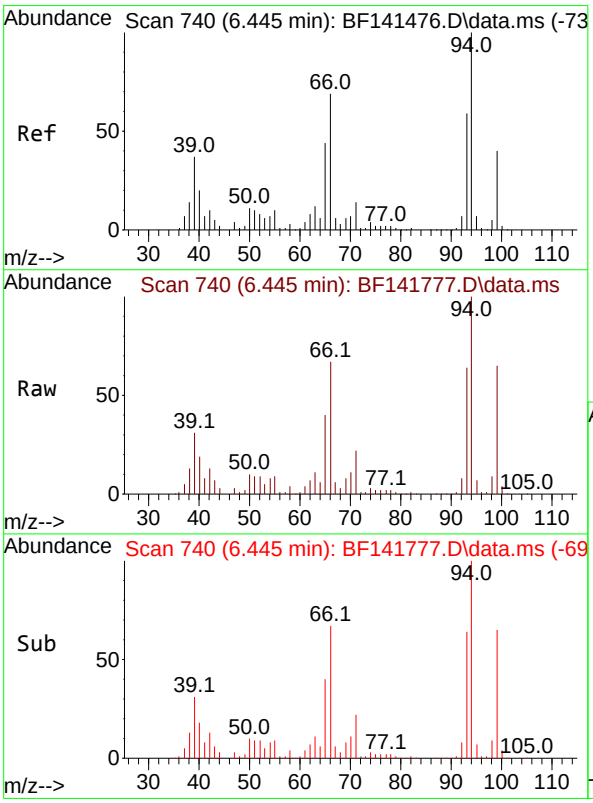
Ion	Ratio	Lower	Upper
77	100		
105	103.7	79.4	119.4
106	96.6	75.1	115.1



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

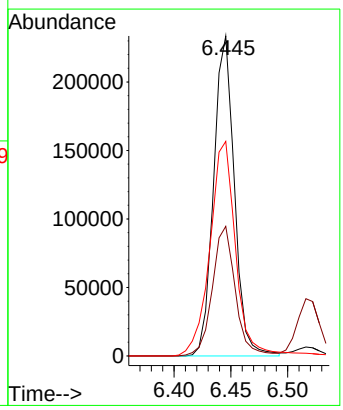
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

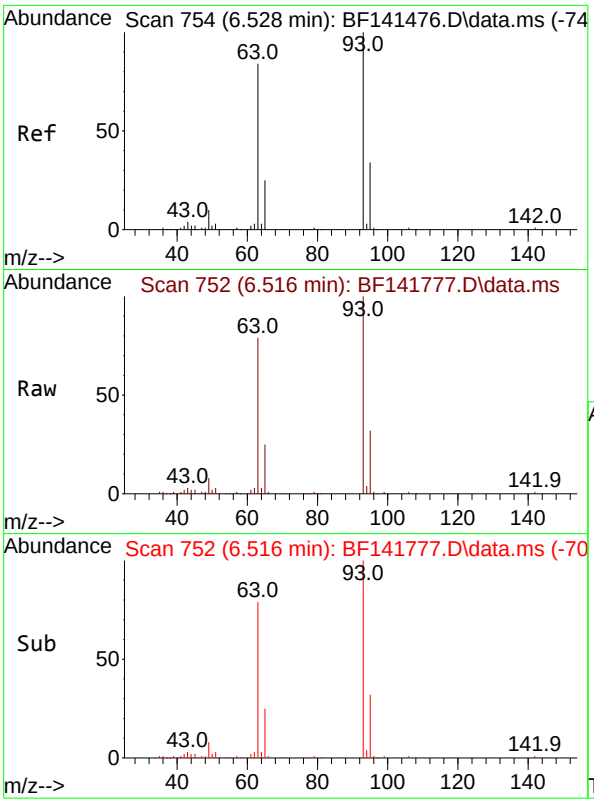


#10
Phenol
Concen: 43.416 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 94 Resp: 297590

Ion	Ratio	Lower	Upper
94	100		
65	40.5	23.7	63.7
66	67.0	49.3	89.3

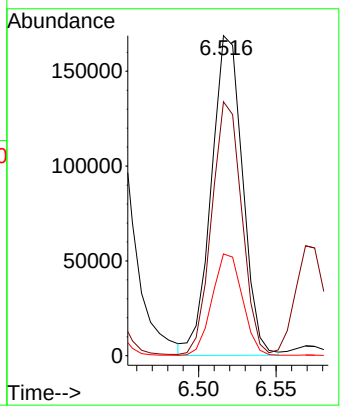




#11
bis(2-Chloroethyl)ether
Concen: 45.949 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 93 Resp: 23656

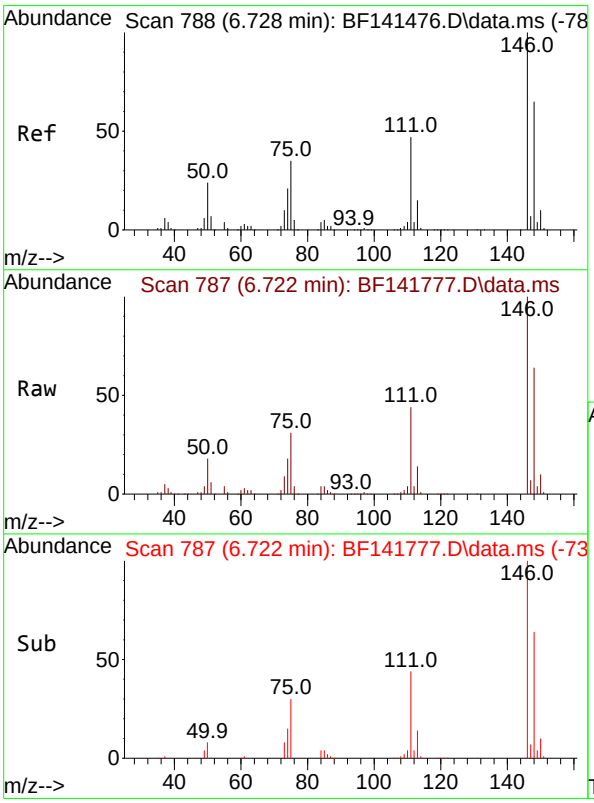
Ion	Ratio	Lower	Upper
93	100		
63	79.3	62.0	102.0
95	31.8	12.6	52.6



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

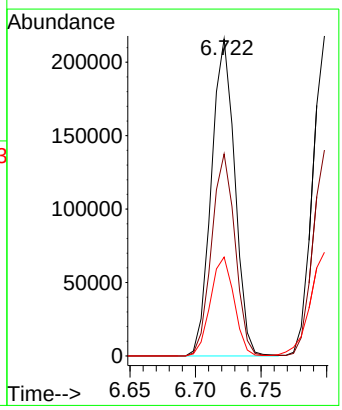
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

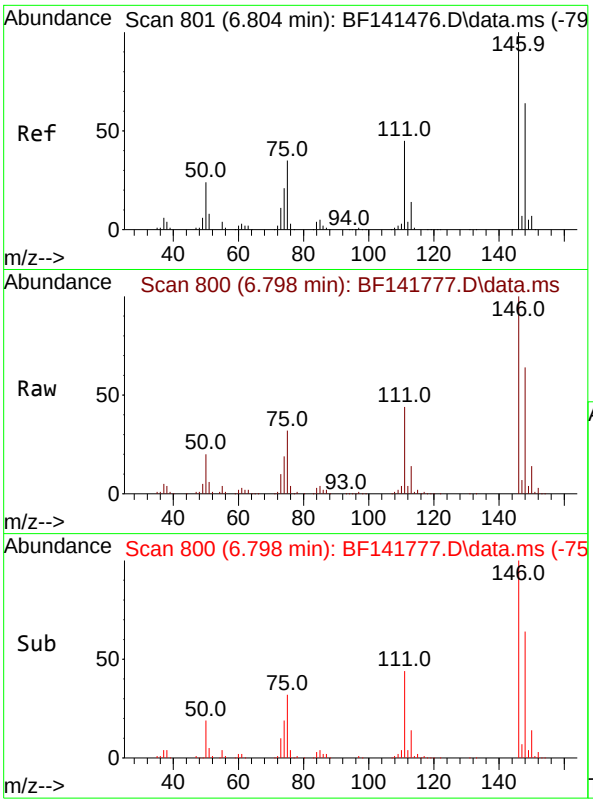


#12
1,3-Dichlorobenzene
Concen: 45.177 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:146 Resp: 268531

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.9	77.9
75	31.2	28.2	42.2

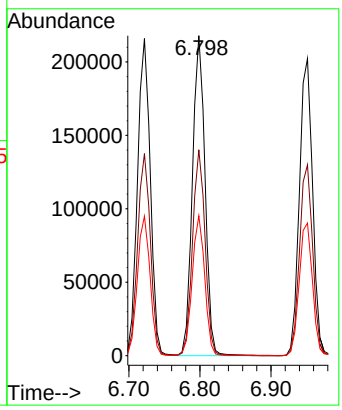




#13
1,4-Dichlorobenzene
Concen: 44.384 ng
RT: 6.798 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:146 Resp: 26954

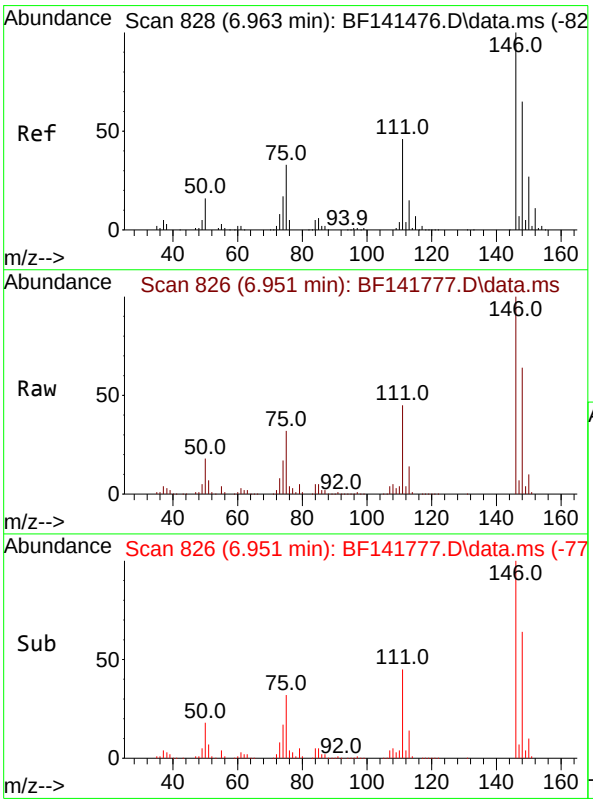
Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.9	76.3
111	43.7	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

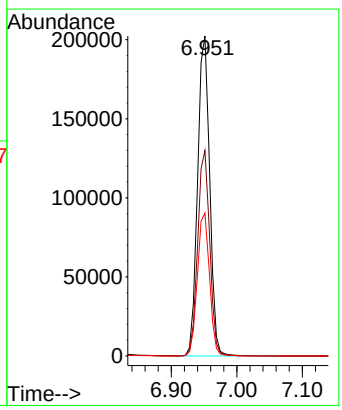
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

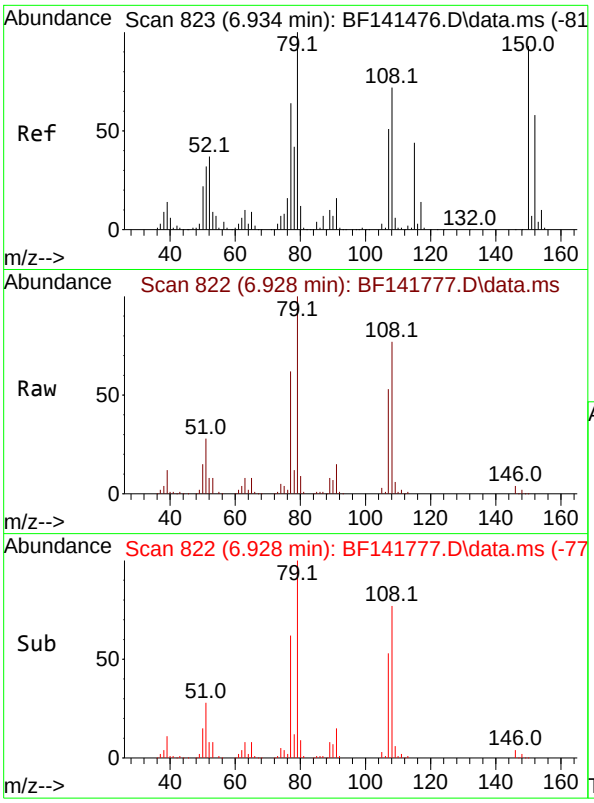


#14
1,2-Dichlorobenzene
Concen: 46.195 ng
RT: 6.951 min Scan# 826
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:146 Resp: 260378

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.8	77.6
111	44.7	37.0	55.4





#15
Benzyl Alcohol
Concen: 42.547 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

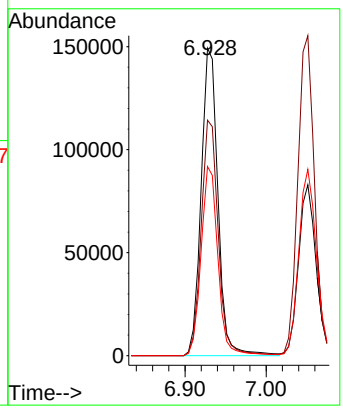
Tgt Ion: 79 Resp: 21487

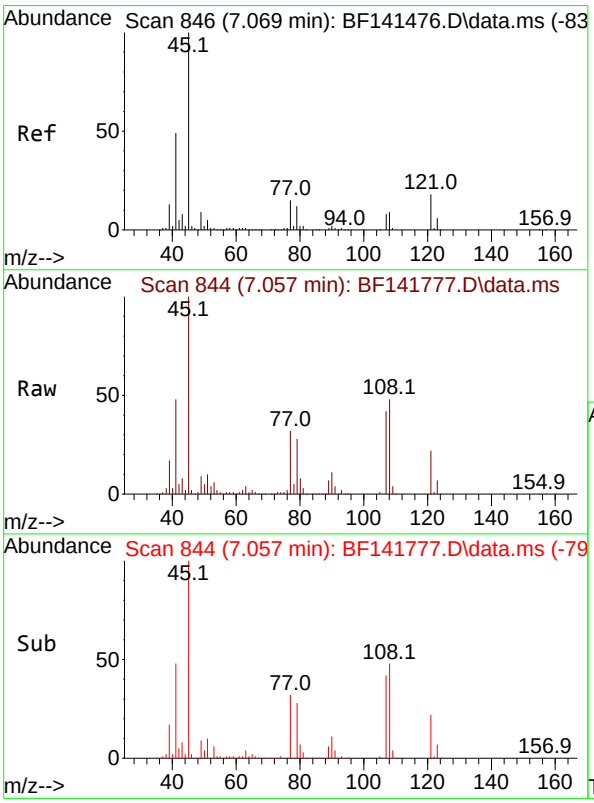
Ion	Ratio	Lower	Upper
79	100		
108	76.6	57.4	86.2
77	61.5	50.9	76.3

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

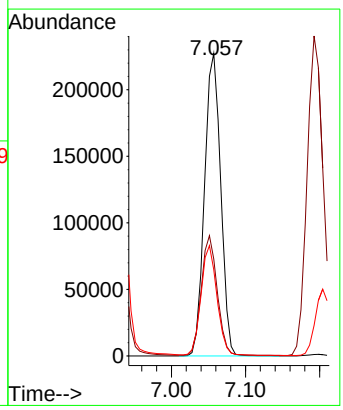


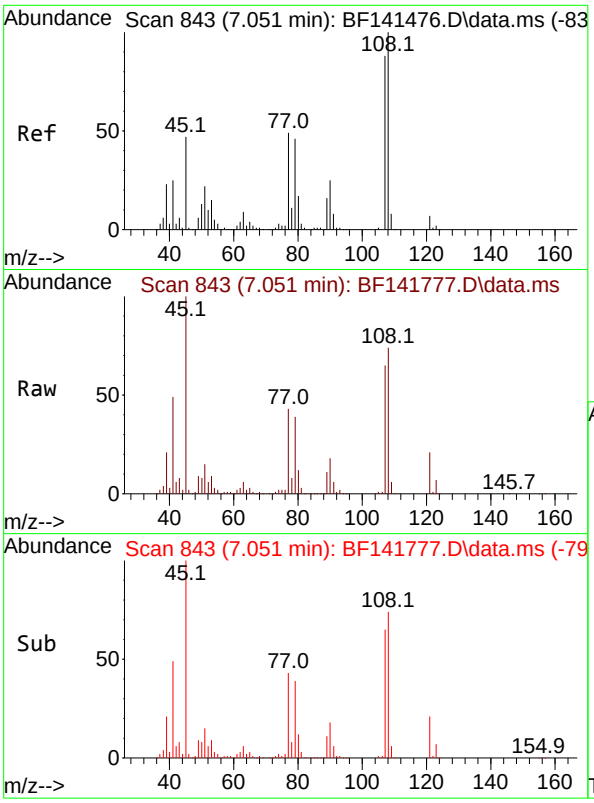


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.119 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 45 Resp: 344765

Ion	Ratio	Lower	Upper
45	100		
77	32.1	0.0	35.8
79	28.5	0.0	32.7

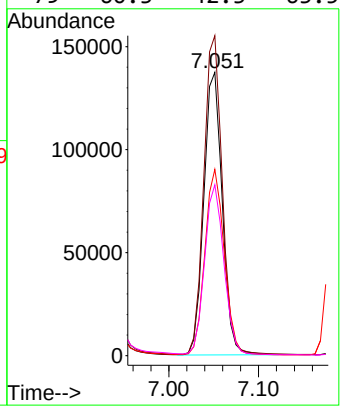




#17
2-Methylphenol
Concen: 44.389 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:107 Resp: 19557

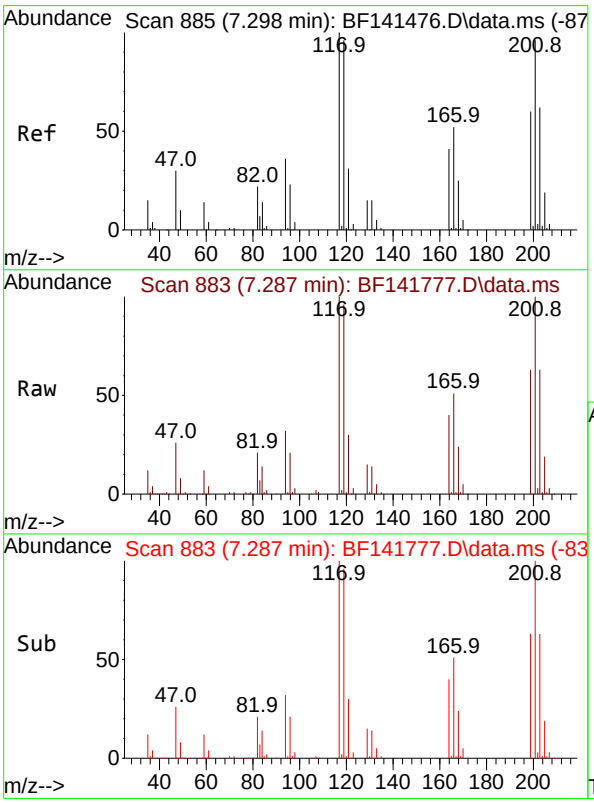
Ion	Ratio	Lower	Upper
107	100		
108	112.9	90.6	136.0
77	65.7	44.4	66.6
79	60.3	42.3	63.5



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

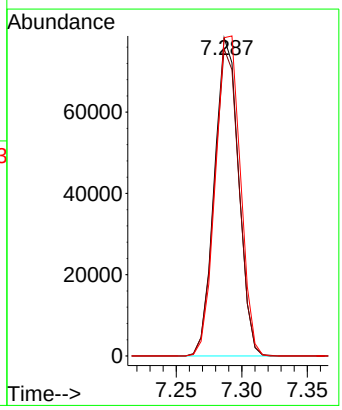
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

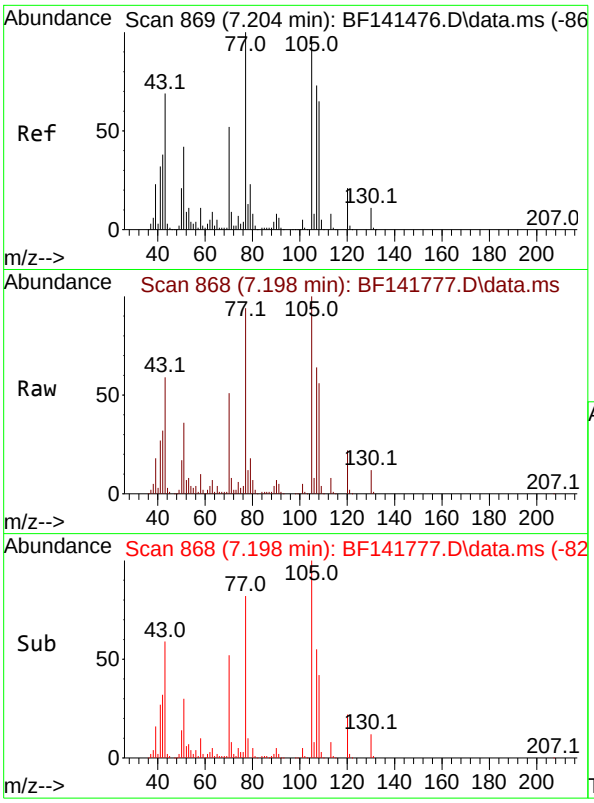


#18
Hexachloroethane
Concen: 44.622 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:117 Resp: 100289

Ion	Ratio	Lower	Upper
117	100		
119	96.5	76.5	114.7
201	100.0	76.7	115.1

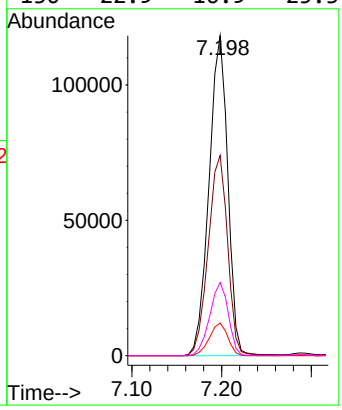




#19
n-Nitroso-di-n-propylamine
Concen: 43.639 ng
RT: 7.198 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 70 Resp: 17190

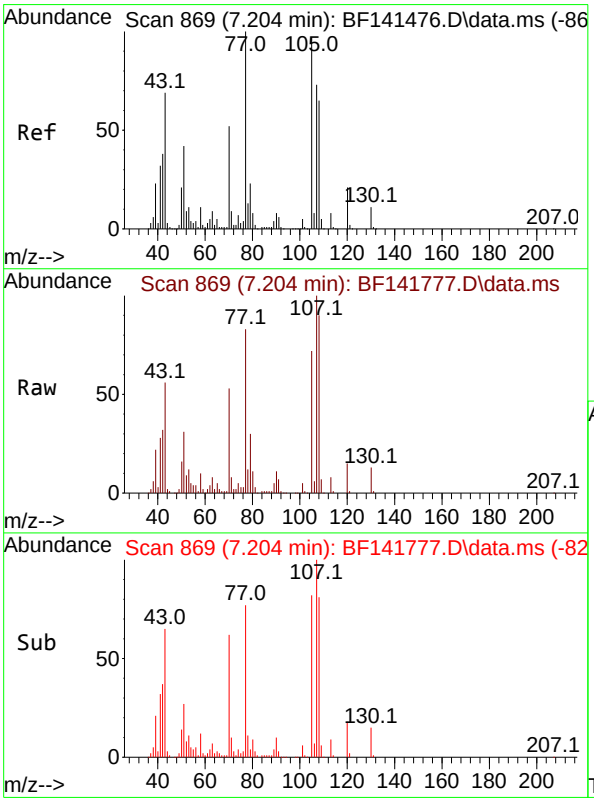
Ion	Ratio	Lower	Upper
70	100		
42	62.6	57.4	86.2
101	10.2	8.0	12.0
130	22.9	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

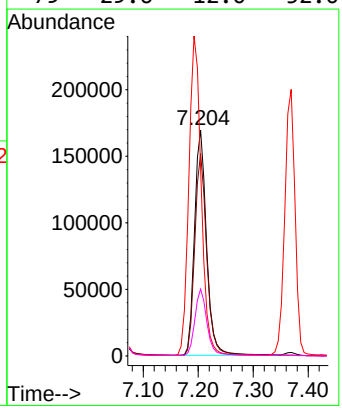
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

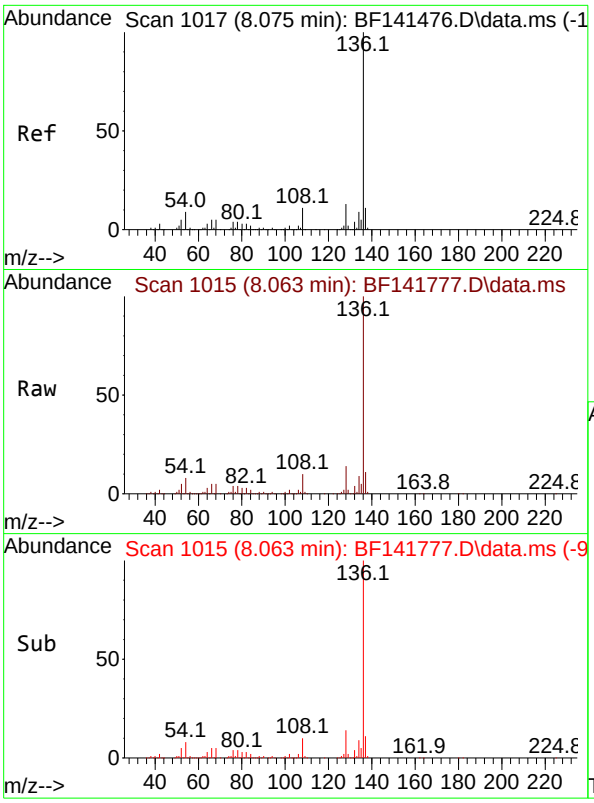


#20
3+4-Methylphenols
Concen: 46.071 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:107 Resp: 257970

Ion	Ratio	Lower	Upper
107	100		
108	89.6	68.5	108.5
77	83.1	116.5	156.5#
79	29.6	12.0	52.0

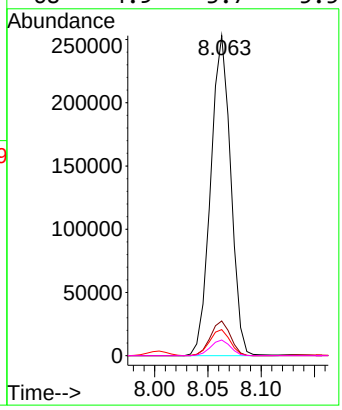




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:136 Resp: 33178

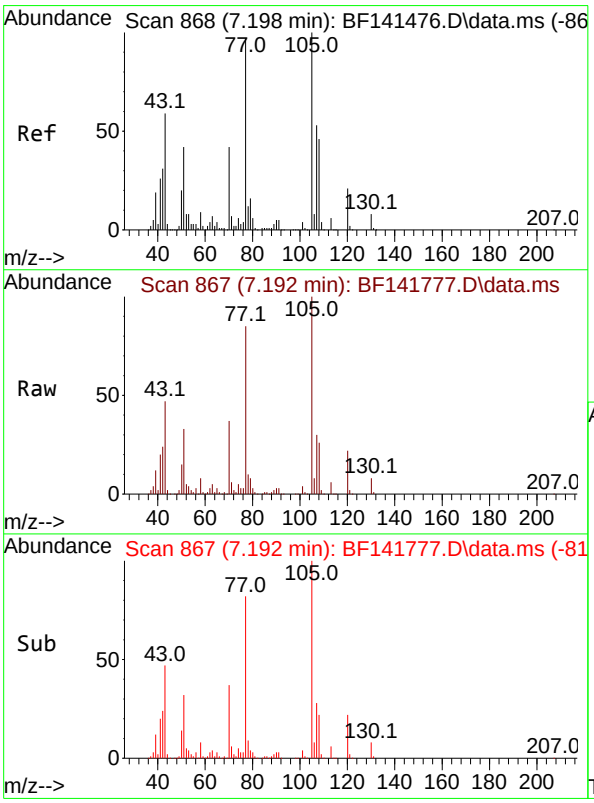
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.1	7.2	10.8
68	4.9	3.7	5.5



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

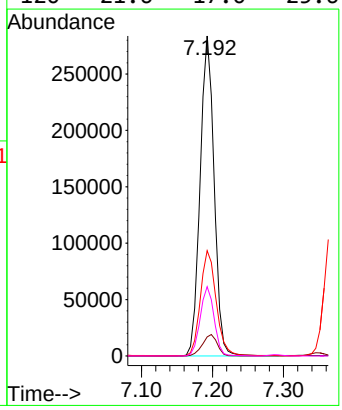
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

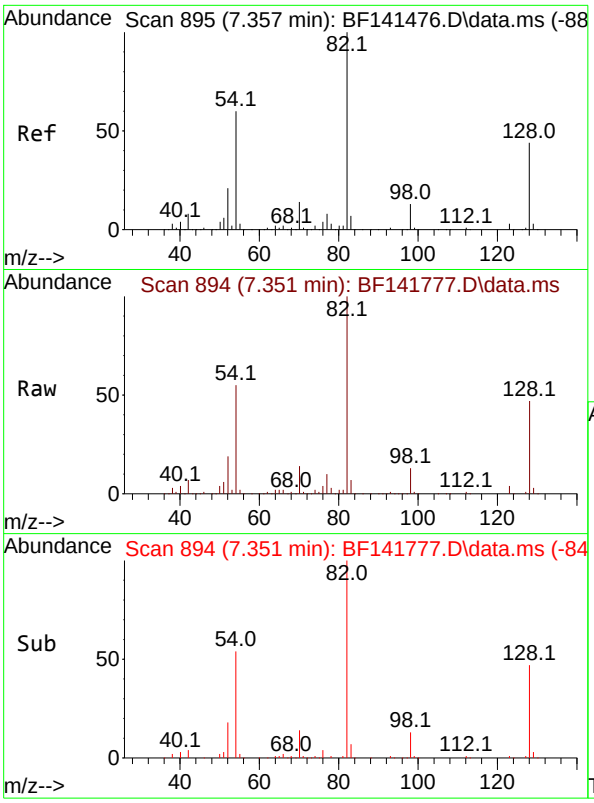


#22
Acetophenone
Concen: 47.368 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:105 Resp: 390944

Ion	Ratio	Lower	Upper
105	100		
71	6.0	5.7	8.5
51	32.9	33.7	50.5#
120	21.6	17.0	25.6

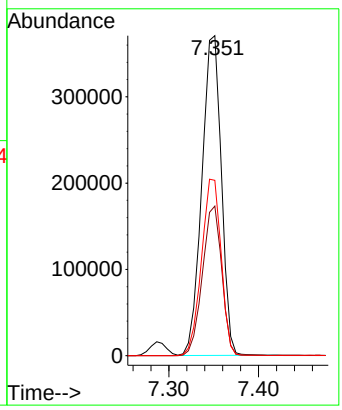




#23
Nitrobenzene-d5
Concen: 87.864 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 82 Resp: 55891

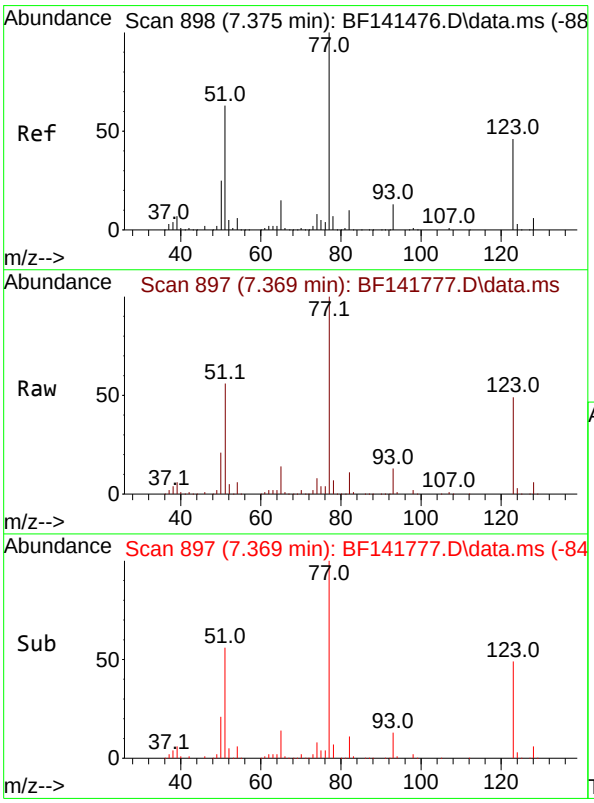
Ion	Ratio	Lower	Upper
82	100		
128	46.7	34.8	52.2
54	54.8	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

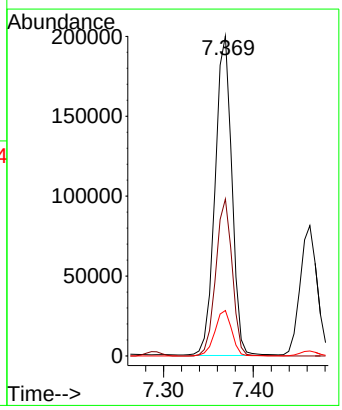
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

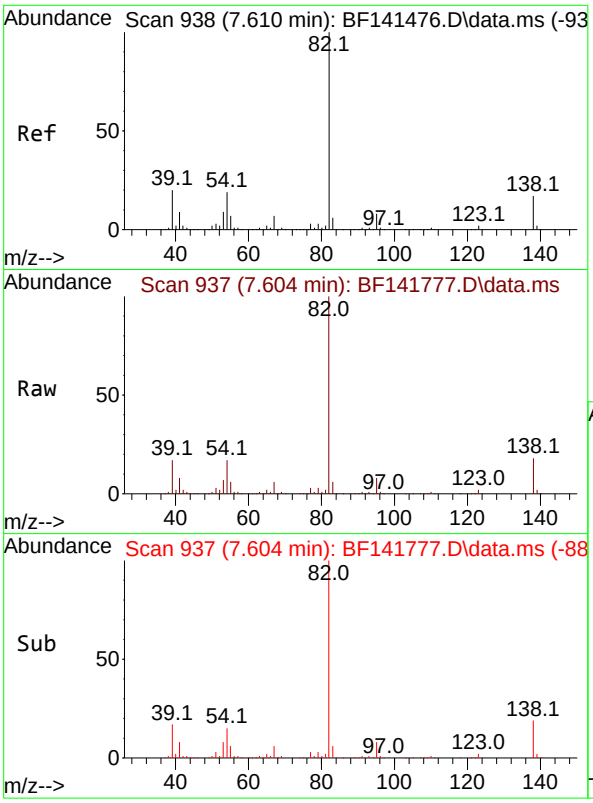


#24
Nitrobenzene
Concen: 41.815 ng
RT: 7.369 min Scan# 897
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 77 Resp: 259378

Ion	Ratio	Lower	Upper
77	100		
123	49.0	36.9	55.3
65	14.2	11.9	17.9

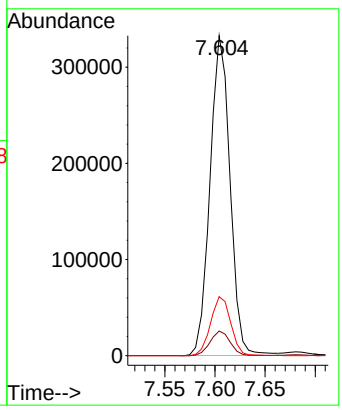




#25
Isophorone
Concen: 45.587 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 82 Resp: 46237

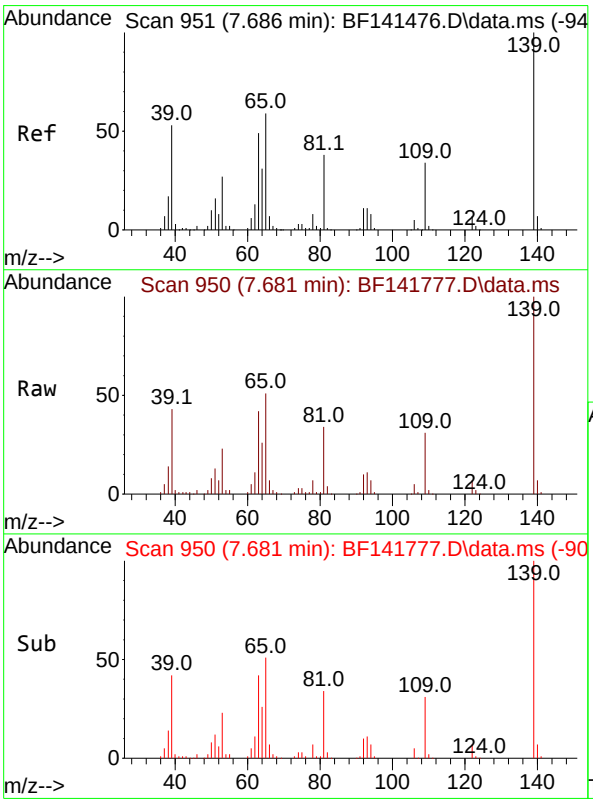
Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	18.5	13.9	20.9



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

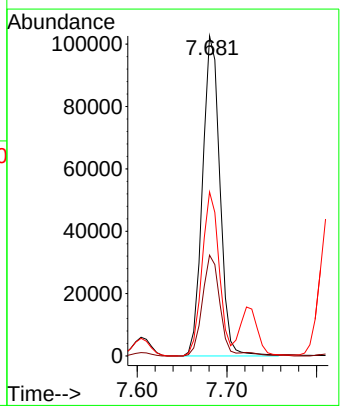
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

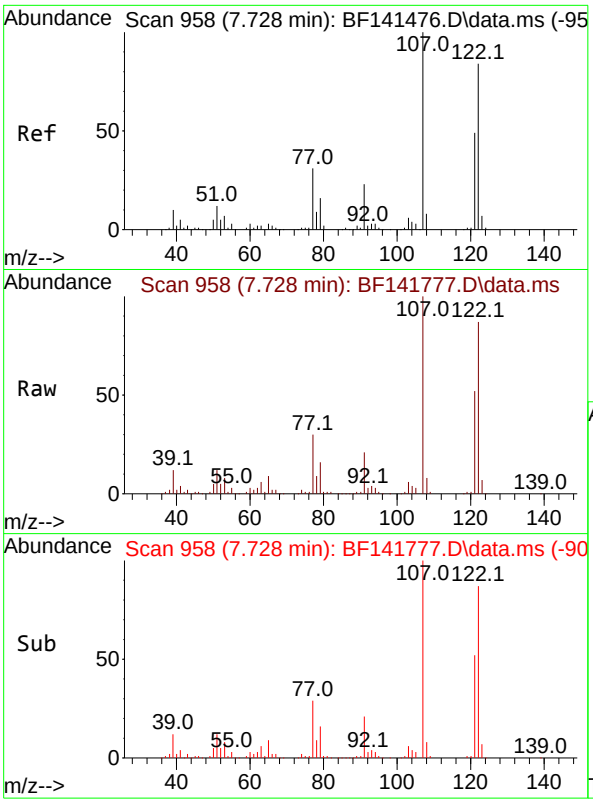


#26
2-Nitrophenol
Concen: 44.743 ng
RT: 7.681 min Scan# 950
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:139 Resp: 138079

Ion	Ratio	Lower	Upper
139	100		
109	31.5	27.0	40.6
65	51.3	47.1	70.7

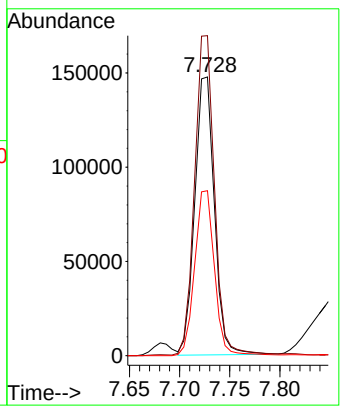




#27
2,4-Dimethylphenol
Concen: 55.997 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:122 Resp: 20188

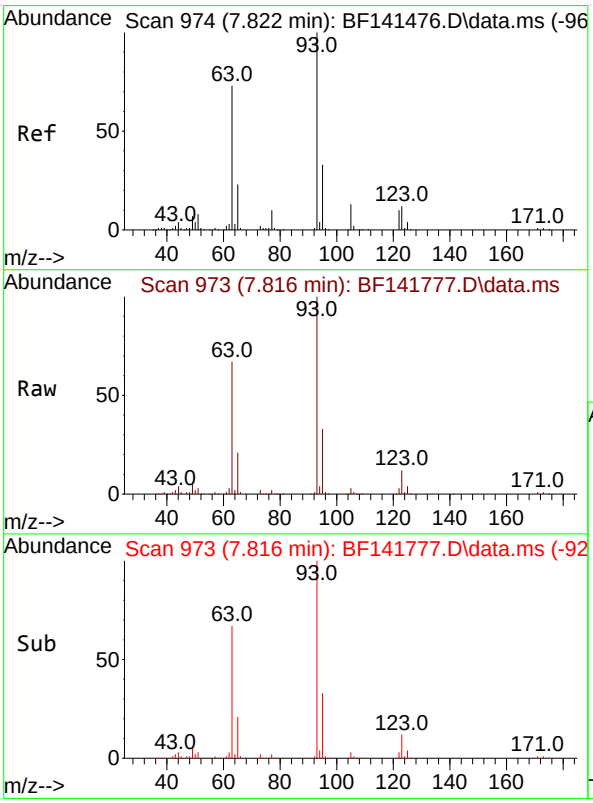
Ion	Ratio	Lower	Upper
122	100		
107	114.8	94.3	141.5
121	59.2	46.0	69.0



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

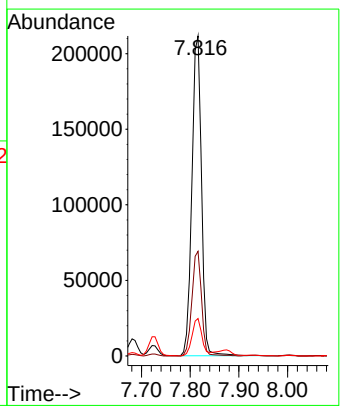
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

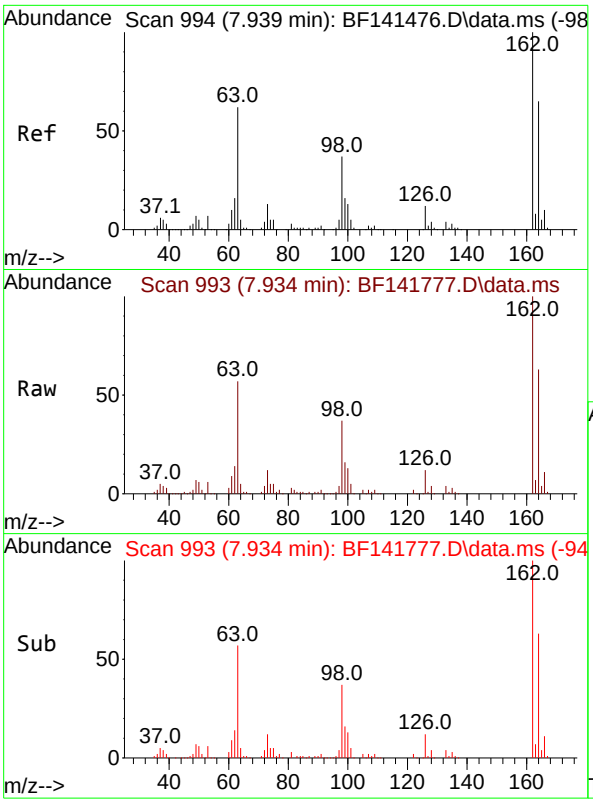


#28
bis(2-Chloroethoxy)methane
Concen: 44.645 ng
RT: 7.816 min Scan# 973
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 93 Resp: 290160

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.1	39.1
123	11.7	9.5	14.3

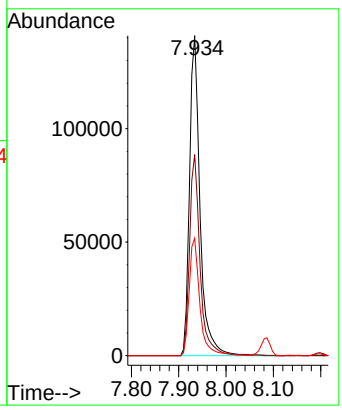




#29
2,4-Dichlorophenol
Concen: 44.535 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:162 Resp: 21693

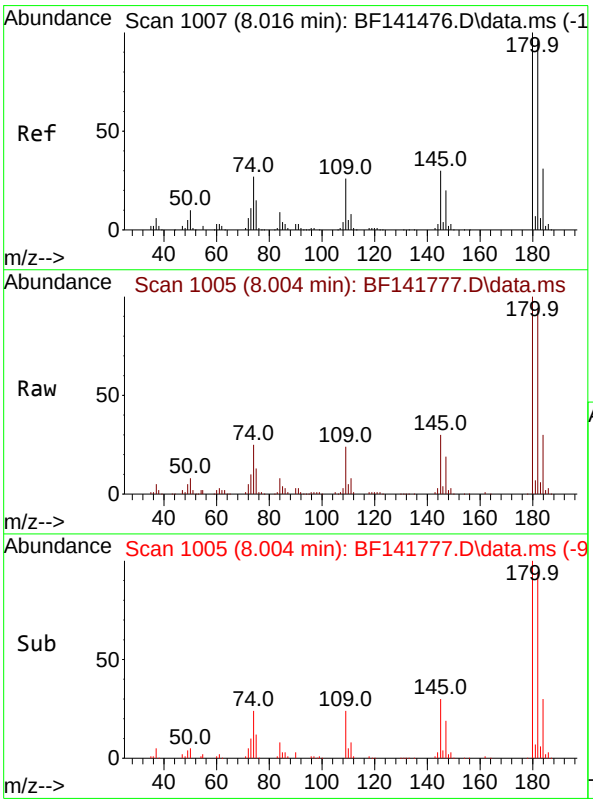
Ion	Ratio	Lower	Upper
162	100		
164	62.9	44.6	84.6
98	36.7	17.2	57.2



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

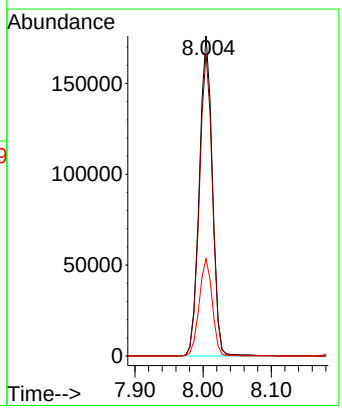
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

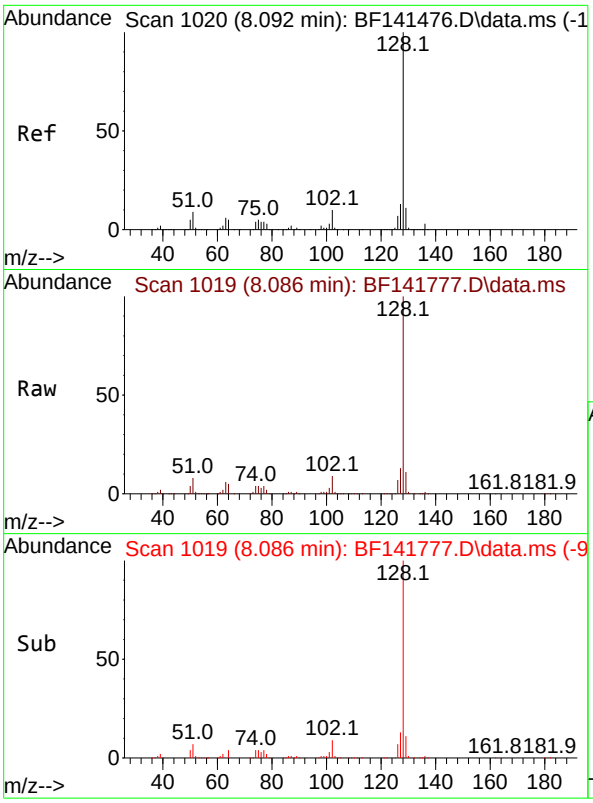


#30
1,2,4-Trichlorobenzene
Concen: 44.071 ng
RT: 8.004 min Scan# 1005
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:180 Resp: 233773

Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.8	115.2
145	30.4	24.2	36.4

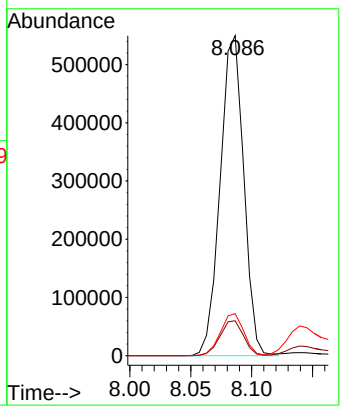




#31
Naphthalene
Concen: 42.891 ng
RT: 8.086 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:128 Resp: 74075

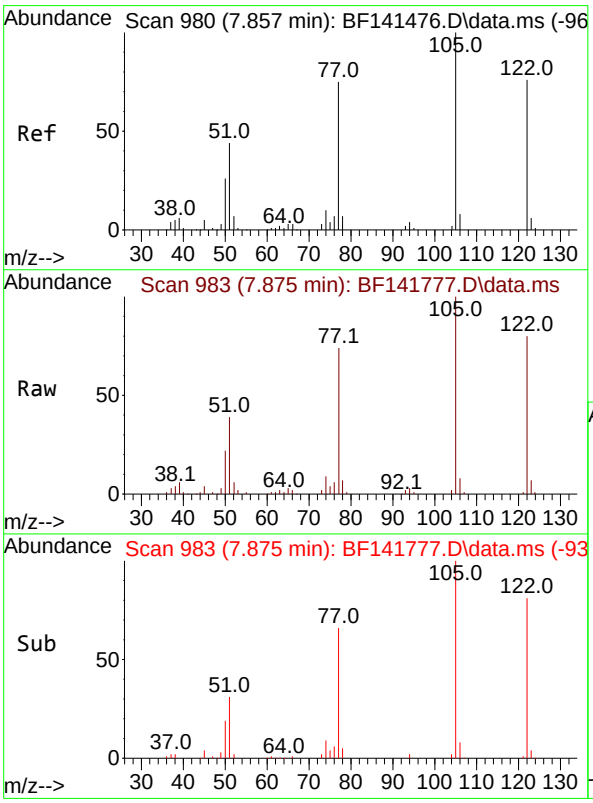
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.2	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

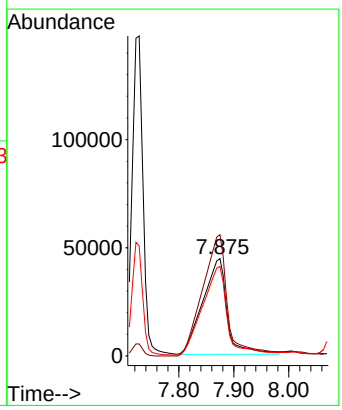
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

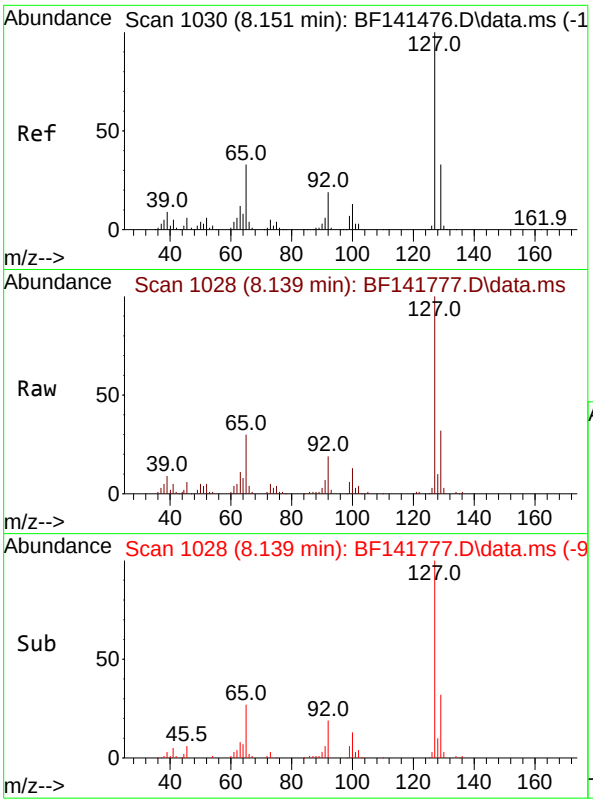


#32
Benzoic acid
Concen: 36.518 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:122 Resp: 136752

Ion	Ratio	Lower	Upper
122	100		
105	124.7	106.5	146.5
77	92.0	76.3	116.3

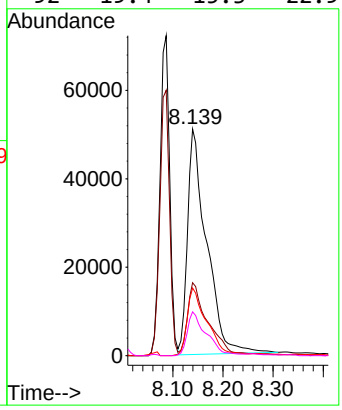




#33
4-Chloroaniline
Concen: 22.325 ng
RT: 8.139 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:127 Resp: 13461

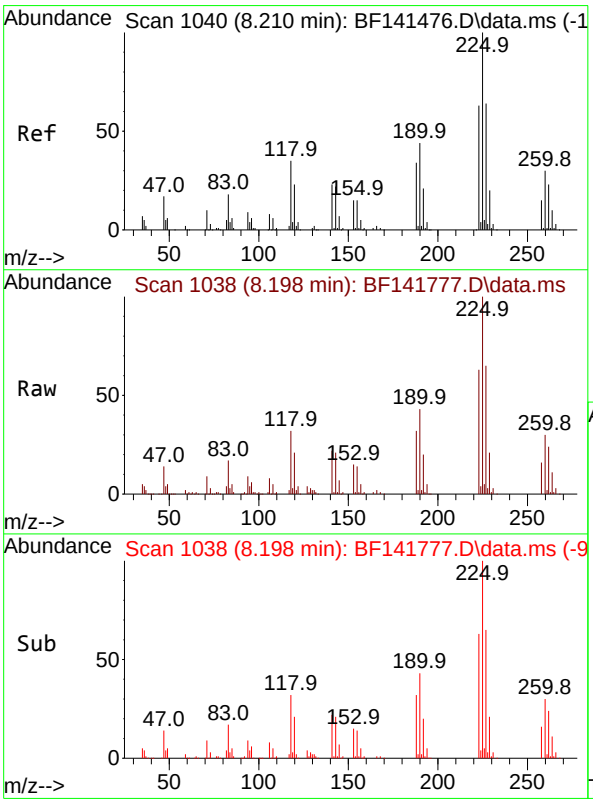
Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.5	39.7
65	29.9	26.4	39.6
92	19.4	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

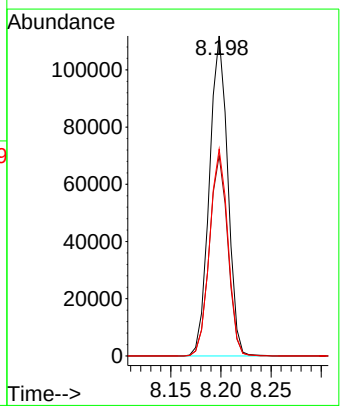
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

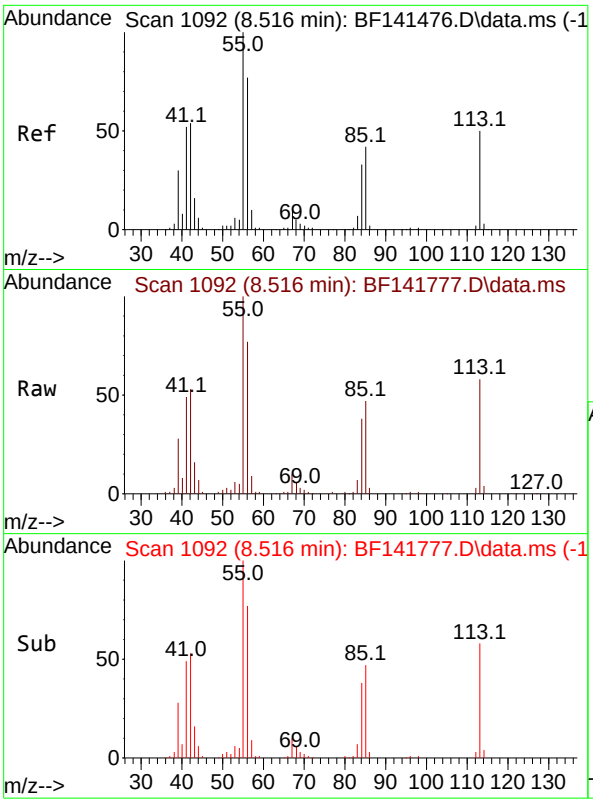


#34
Hexachlorobutadiene
Concen: 44.702 ng
RT: 8.198 min Scan# 1038
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:225 Resp: 142354

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1
227	64.7	51.0	76.6

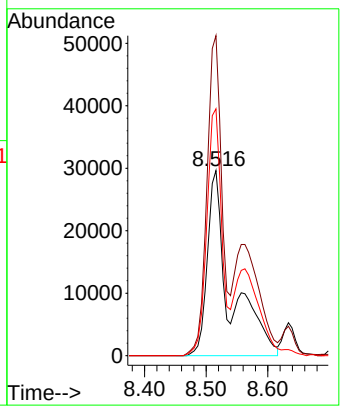




#35
Caprolactam
Concen: 51.646 ng m
RT: 8.516 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:113 Resp: 7659

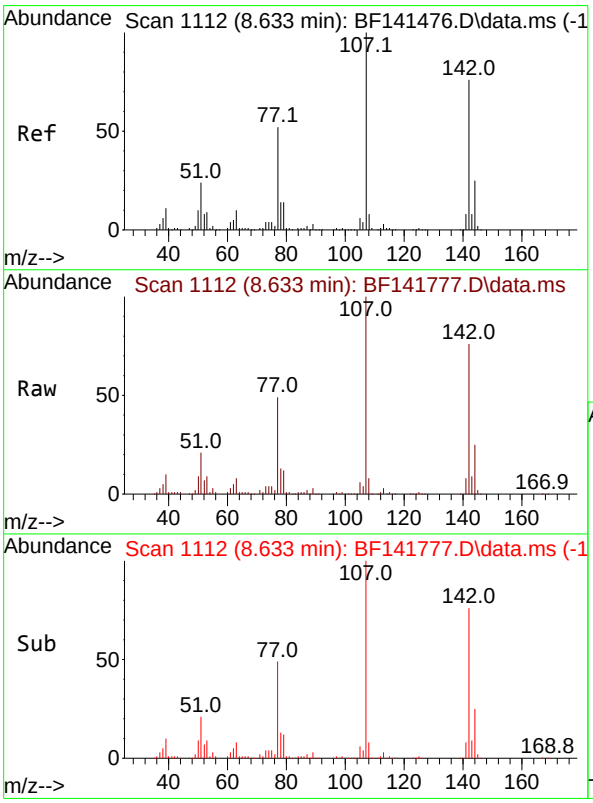
Ion	Ratio	Lower	Upper
113	100		
55	172.8	180.8	220.8#
56	133.3	133.6	173.6#



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

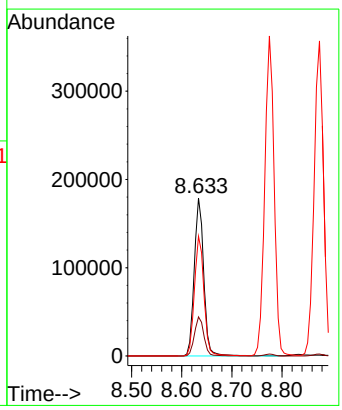
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

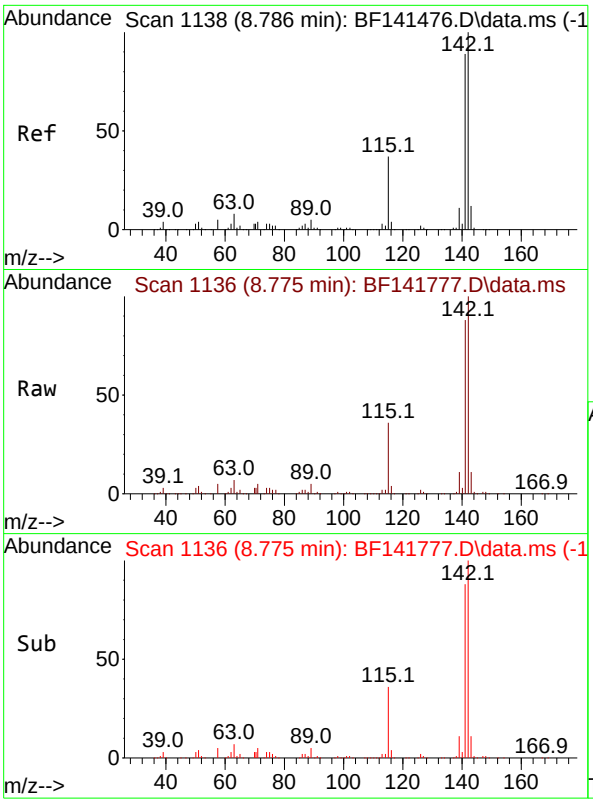


#36
4-Chloro-3-methylphenol
Concen: 43.534 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:107 Resp: 234899

Ion	Ratio	Lower	Upper
107	100		
144	24.7	19.7	29.5
142	75.8	60.8	91.2

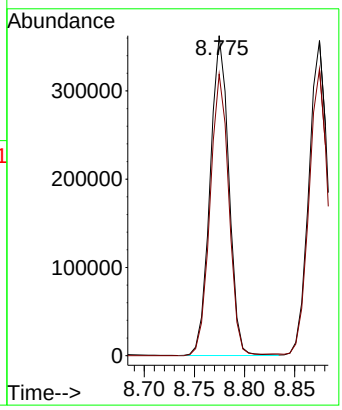




#37
2-Methylnaphthalene
Concen: 41.950 ng
RT: 8.775 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:142 Resp: 47145

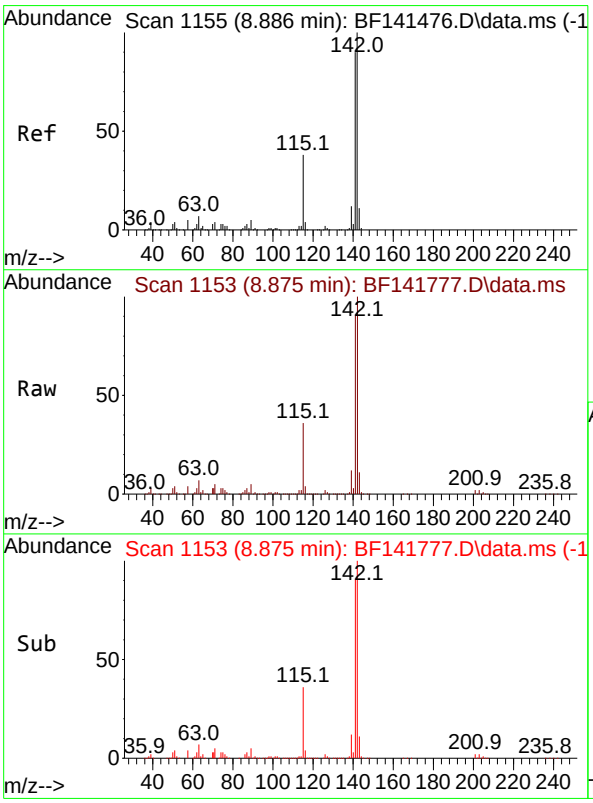
Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.2	106.8



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

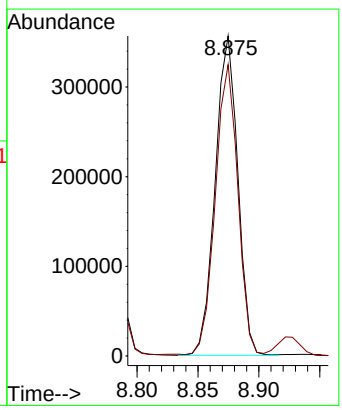
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

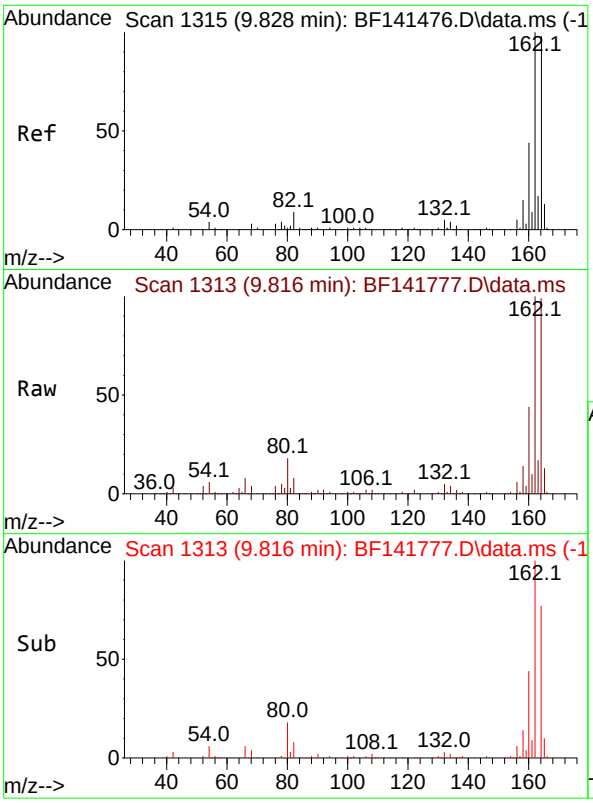


#38
1-Methylnaphthalene
Concen: 42.273 ng
RT: 8.875 min Scan# 1153
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:142 Resp: 460135

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.1	108.1

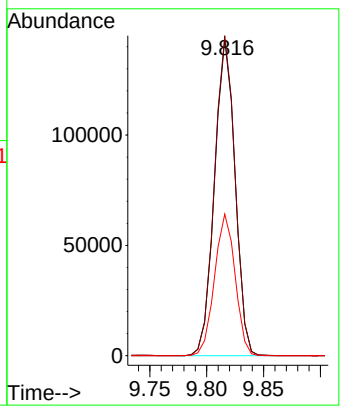




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:164 Resp: 18036

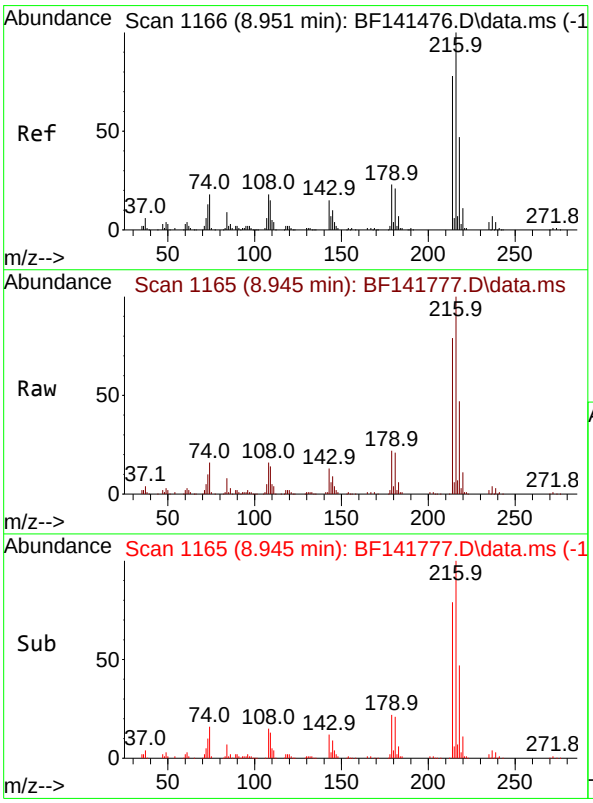
Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.3	121.9
160	44.8	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

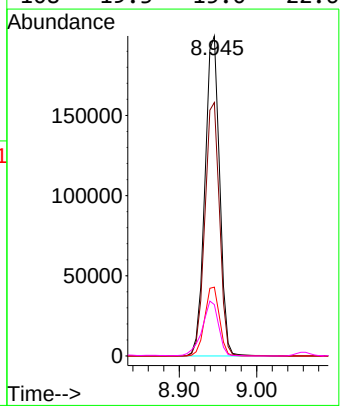
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

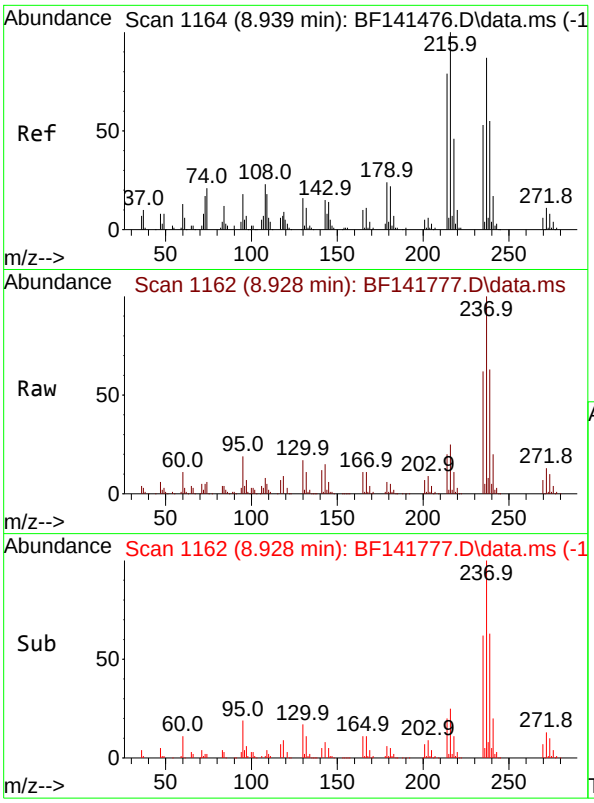


#40
1,2,4,5-Tetrachlorobenzene
Concen: 50.141 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:216 Resp: 261645

Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.3	93.5
179	21.6	18.0	27.0
108	19.3	15.0	22.6

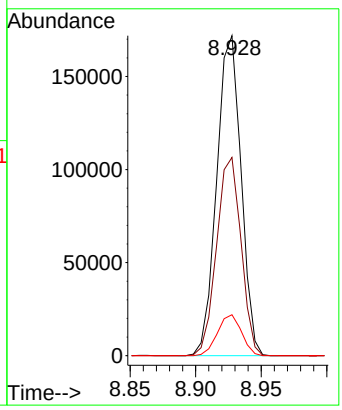




#41
Hexachlorocyclopentadiene
Concen: 127.788 ng
RT: 8.928 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:237 Resp: 22179

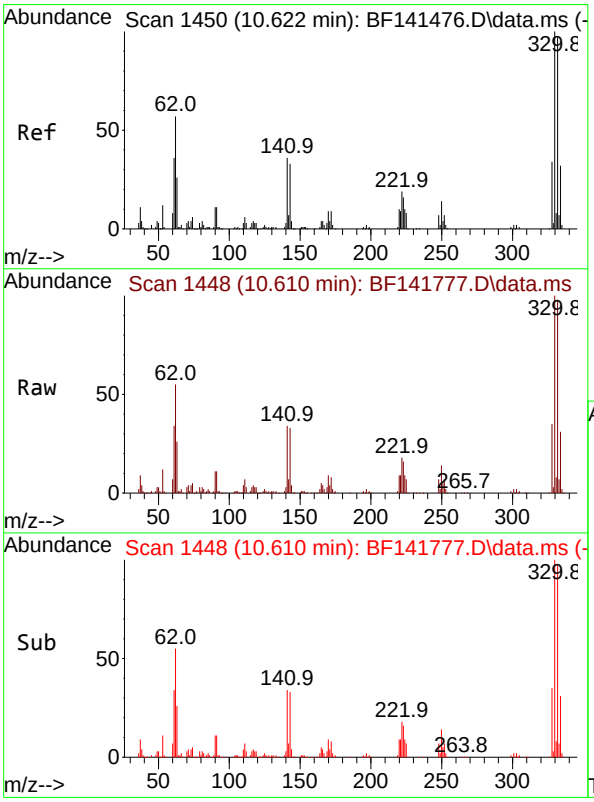
Ion	Ratio	Lower	Upper
237	100		
235	61.9	41.4	81.4
272	12.8	0.0	32.4



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

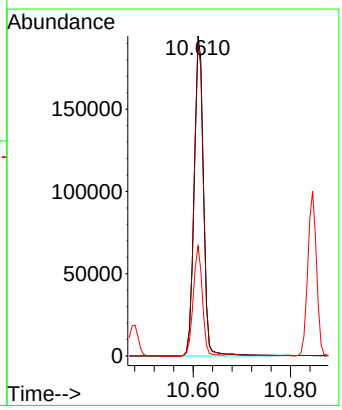
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

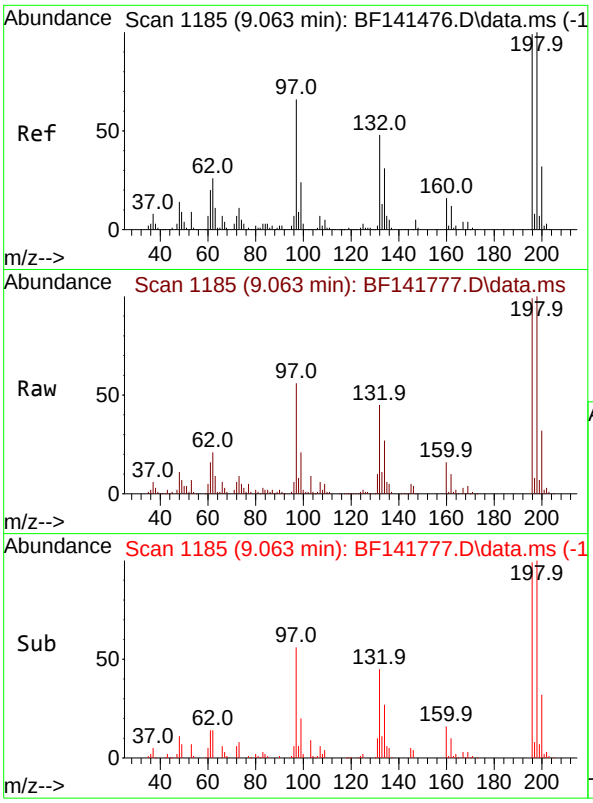


#42
2,4,6-Tribromophenol
Concen: 144.676 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:330 Resp: 262131

Ion	Ratio	Lower	Upper
330	100		
332	97.9	78.5	117.7
141	33.2	31.0	46.4

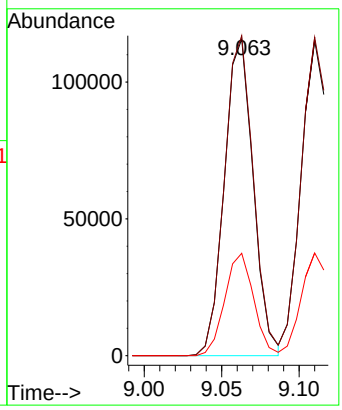




#43
2,4,6-Trichlorophenol
Concen: 44.513 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:196 Resp: 15012

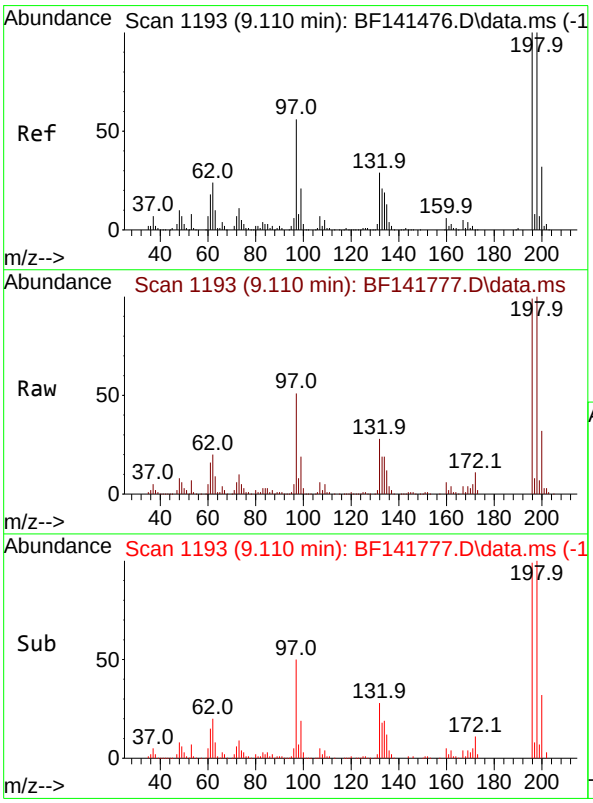
Ion	Ratio	Lower	Upper
196	100		
198	101.0	80.6	121.0
200	32.3	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

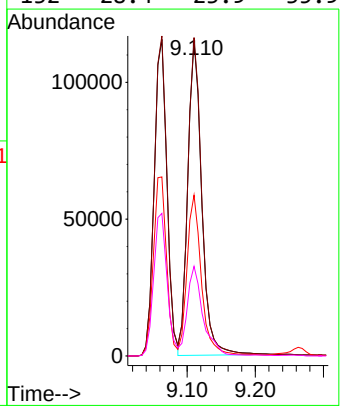
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

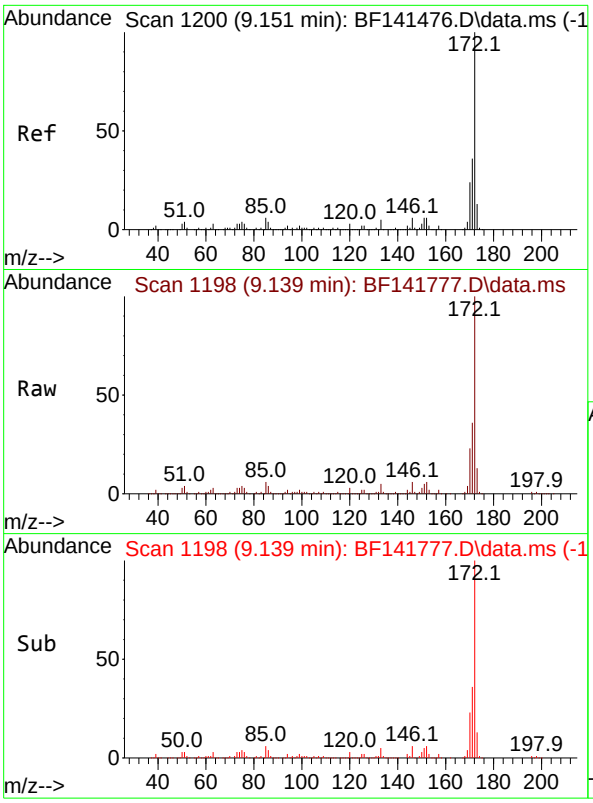


#44
2,4,5-Trichlorophenol
Concen: 44.581 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:196 Resp: 162948

Ion	Ratio	Lower	Upper
196	100		
198	101.0	79.8	119.8
97	51.0	44.8	67.2
132	28.4	23.9	35.9

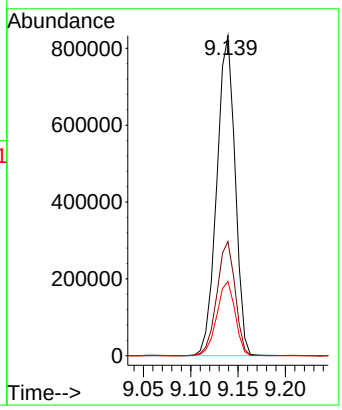




#45
2-Fluorobiphenyl
Concen: 95.879 ng
RT: 9.139 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:172 Resp: 112246

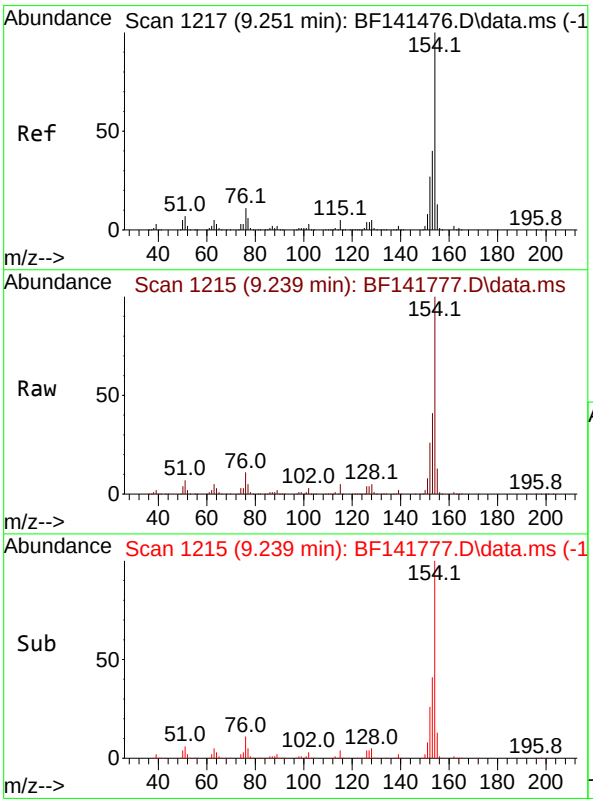
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.7	43.1
170	23.2	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

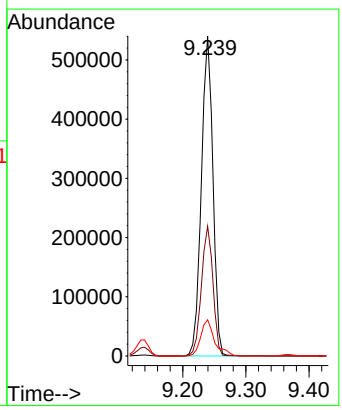
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

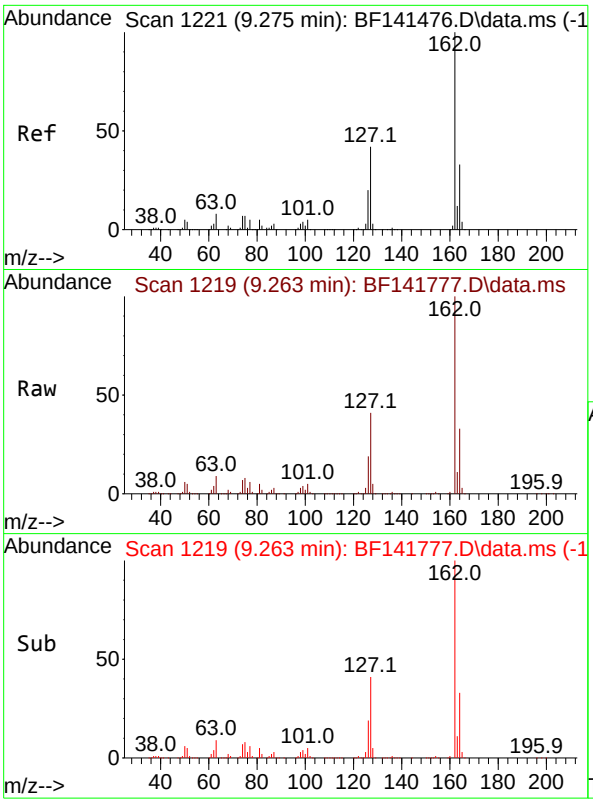


#46
1,1'-Biphenyl
Concen: 49.122 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:154 Resp: 686888

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.4	60.4
76	11.3	0.0	30.8

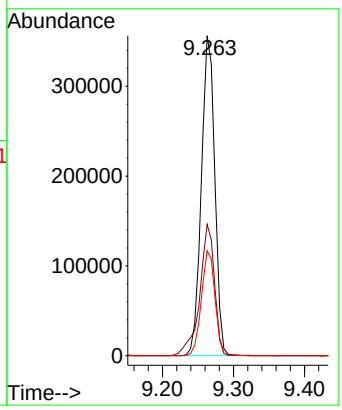




#47
2-Chloronaphthalene
Concen: 45.482 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:162 Resp: 47029

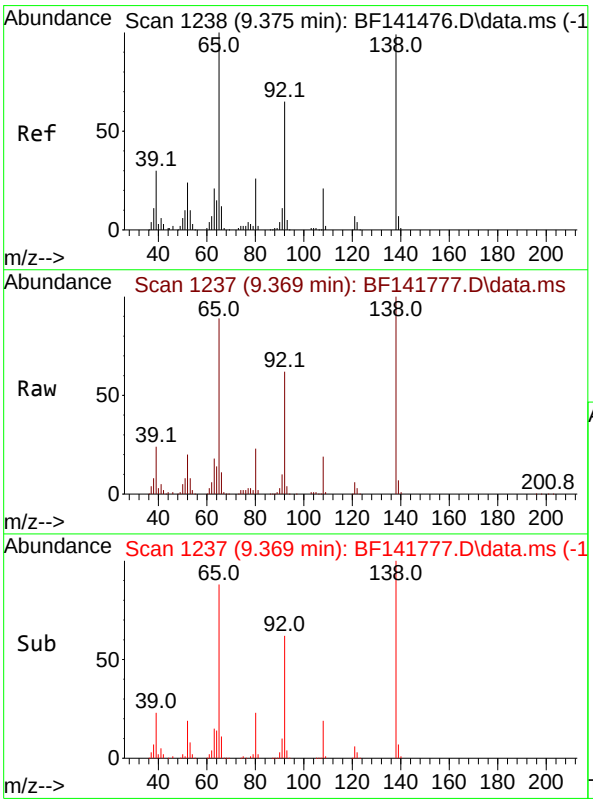
Ion	Ratio	Lower	Upper
162	100		
127	41.0	34.1	51.1
164	32.8	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

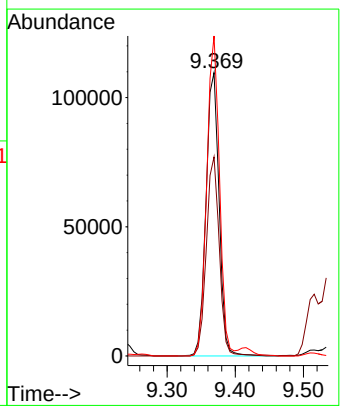
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

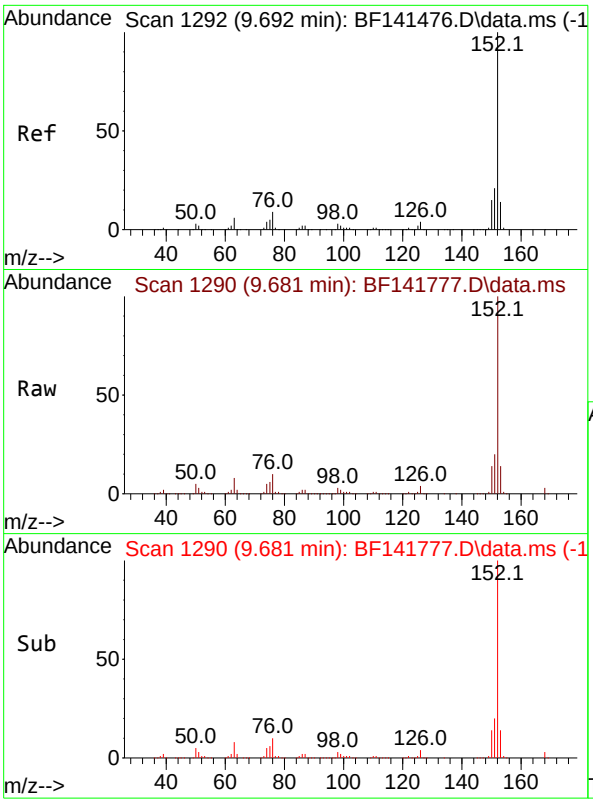


#48
2-Nitroaniline
Concen: 42.345 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 65 Resp: 146947

Ion	Ratio	Lower	Upper
65	100		
92	70.2	52.2	78.2
138	112.9	79.5	119.3

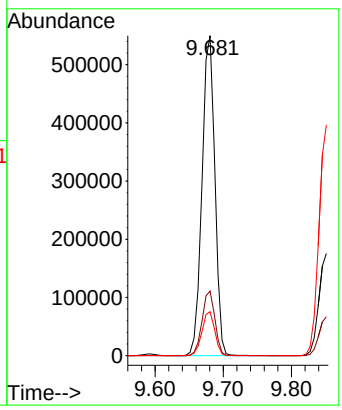




#49
Acenaphthylene
Concen: 46.929 ng
RT: 9.681 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:152 Resp: 72176

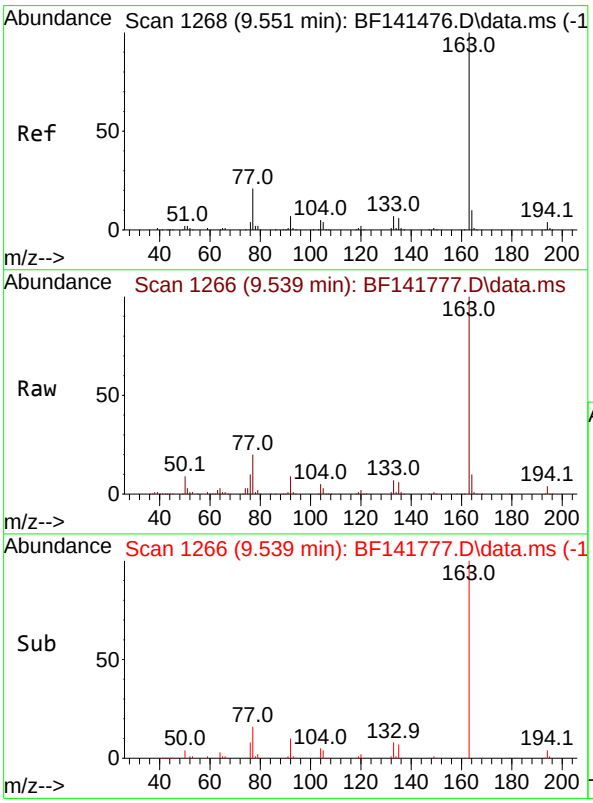
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	13.7	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

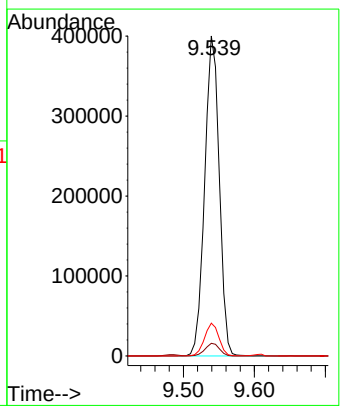
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

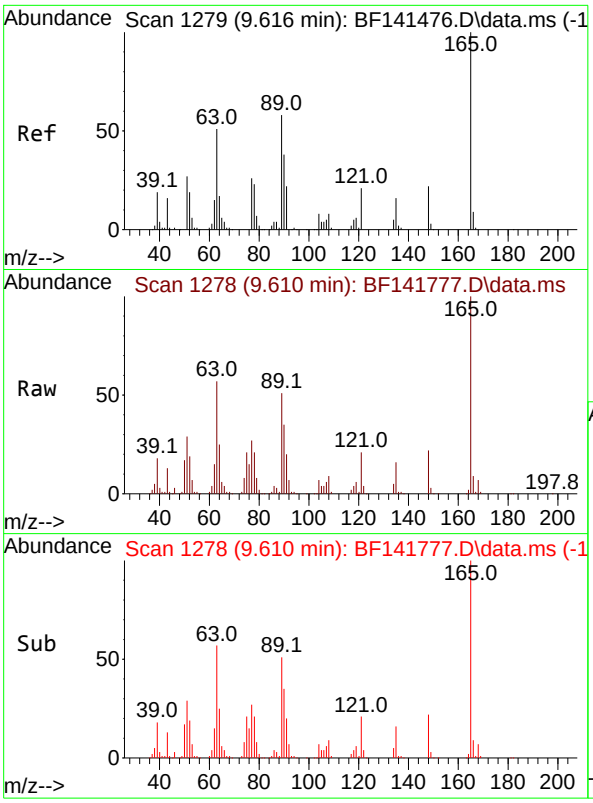


#50
Dimethylphthalate
Concen: 46.687 ng
RT: 9.539 min Scan# 1266
Delta R.T. -0.023 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:163 Resp: 571666

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.4
164	10.2	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 46.887 ng
RT: 9.610 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

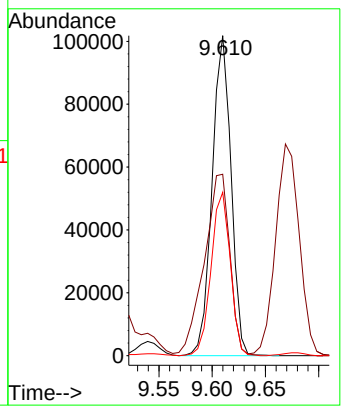
Tgt Ion:165 Resp: 12550

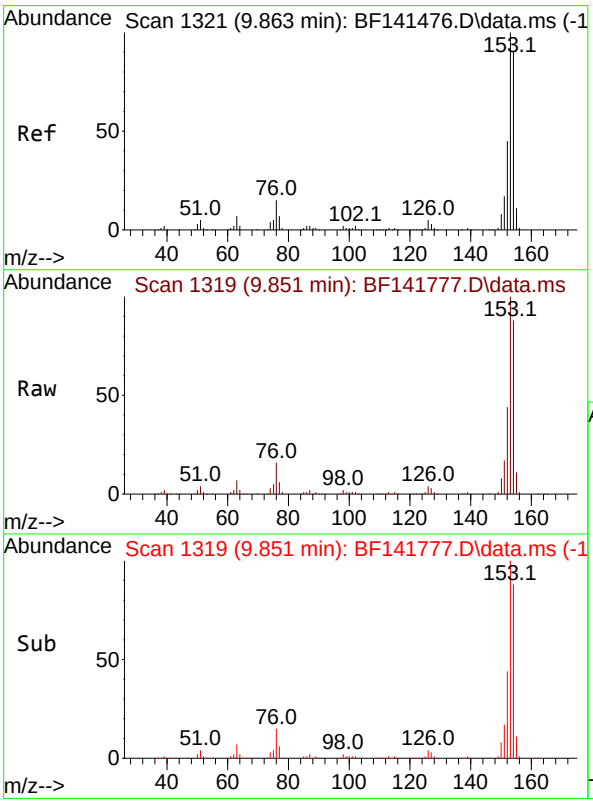
Ion	Ratio	Lower	Upper
165	100		
63	56.7	49.4	74.0
89	51.0	46.5	69.7

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

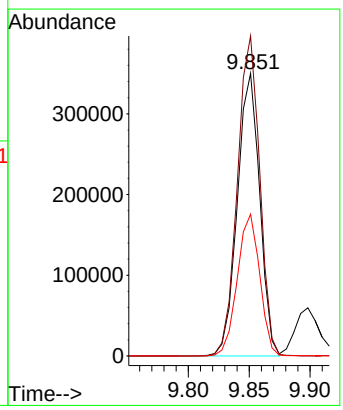


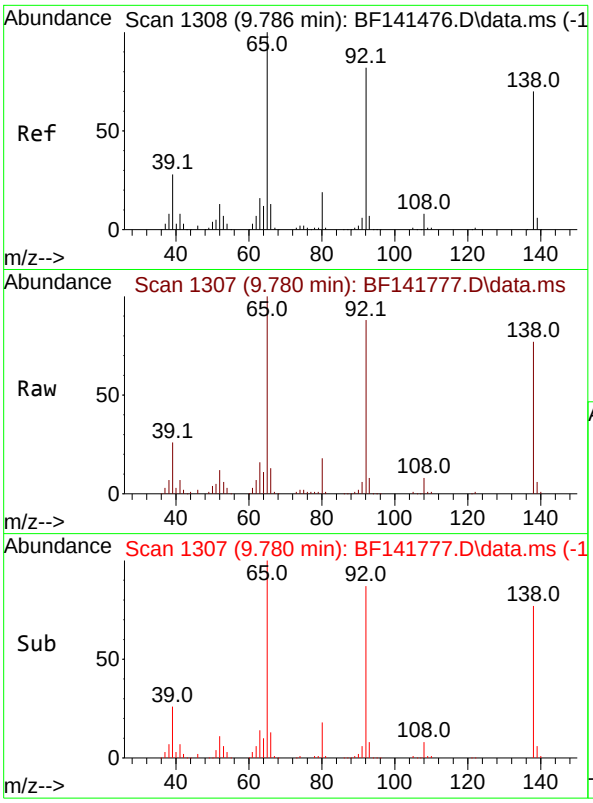


#52
Acenaphthene
Concen: 43.338 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:154 Resp: 448107

Ion	Ratio	Lower	Upper
154	100		
153	113.3	89.2	133.8
152	50.2	39.8	59.8

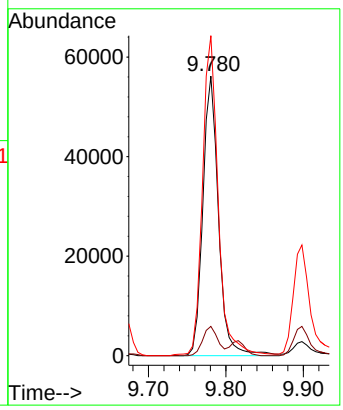




#53
3-Nitroaniline
Concen: 27.343 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:138 Resp: 7877

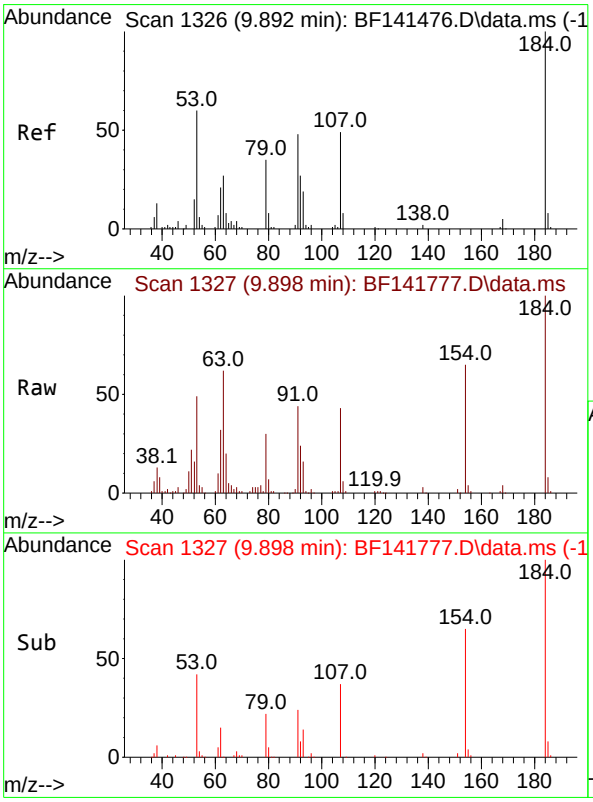
Ion	Ratio	Lower	Upper
138	100		
108	10.5	9.0	13.4
92	114.5	93.7	140.5



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

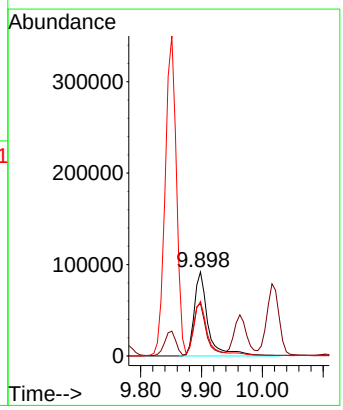
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

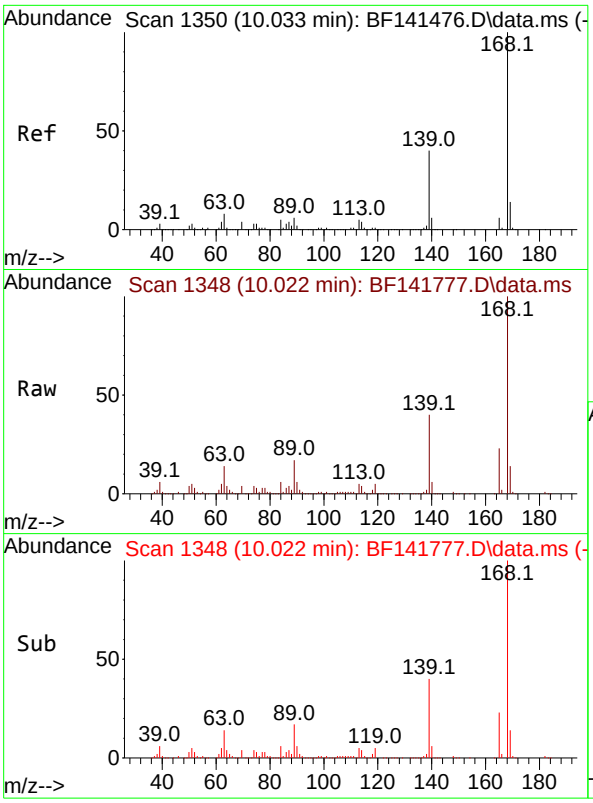


#54
2,4-Dinitrophenol
Concen: 91.073 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:184 Resp: 144884

Ion	Ratio	Lower	Upper
184	100		
63	62.4	61.0	91.6
154	65.0	59.9	89.9

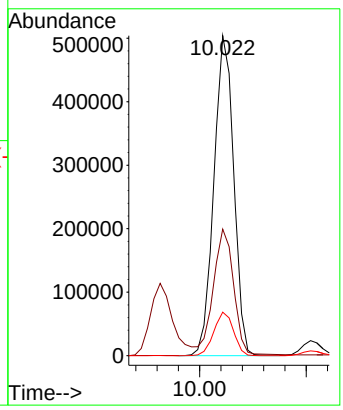




#55
Dibenzofuran
Concen: 42.845 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:168 Resp: 65025

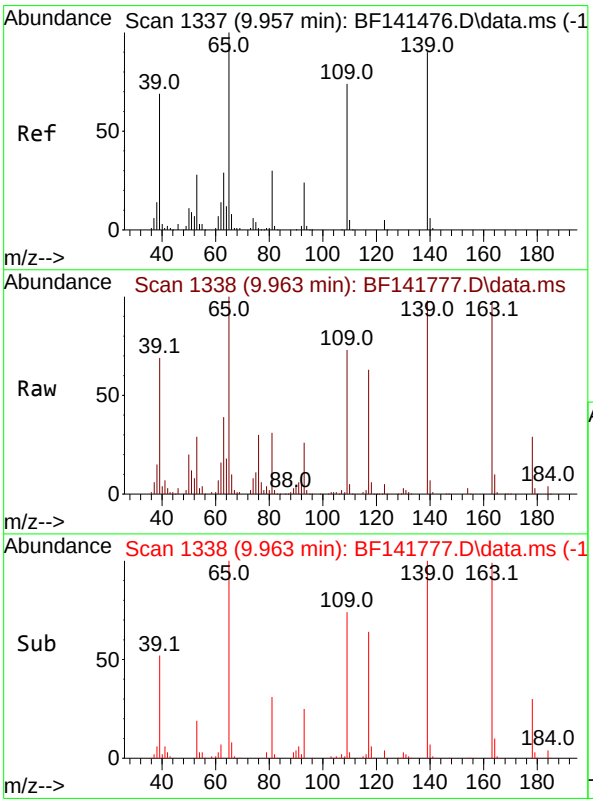
Ion	Ratio	Lower	Upper
168	100		
139	39.5	32.7	49.1
169	13.6	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

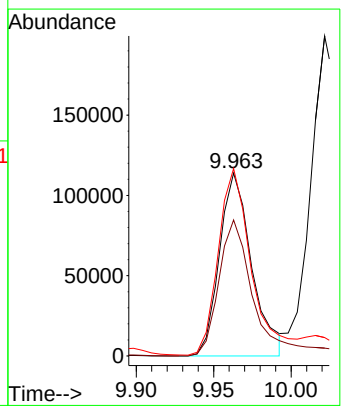
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

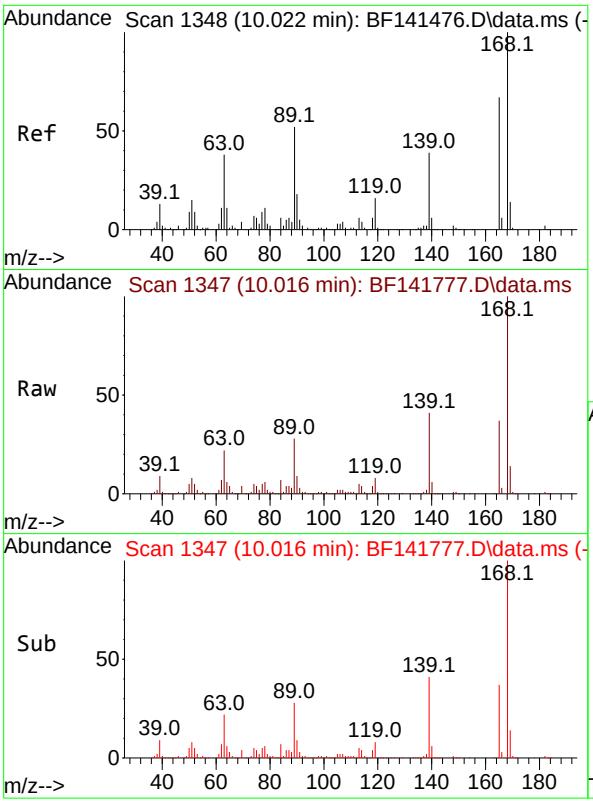


#56
4-Nitrophenol
Concen: 77.235 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:139 Resp: 165178

Ion	Ratio	Lower	Upper
139	100		
109	74.3	62.0	102.0
65	102.5	91.2	131.2

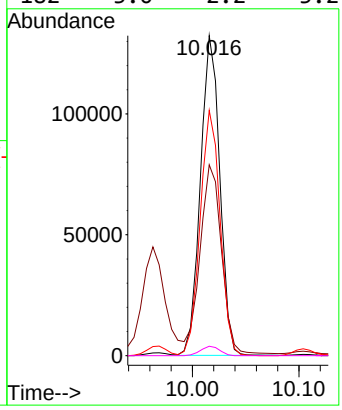




#57
2,4-Dinitrotoluene
Concen: 46.946 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:165 Resp: 16728

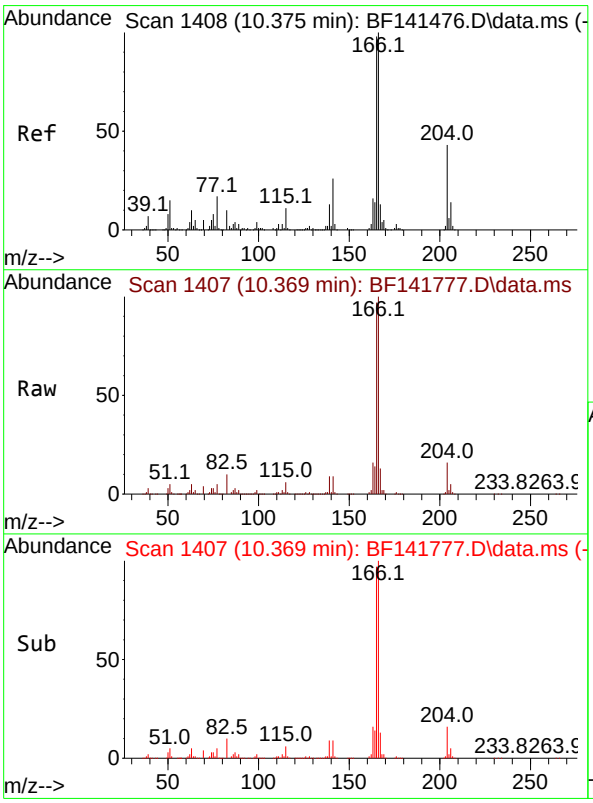
Ion	Ratio	Lower	Upper
165	100		
63	59.6	46.4	69.6
89	76.7	61.8	92.6
182	3.0	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

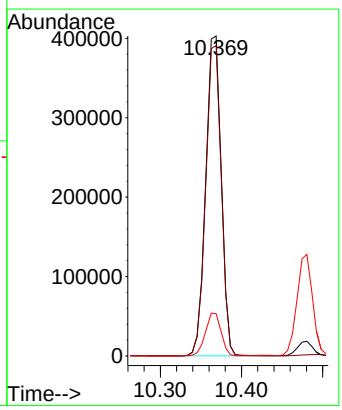
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

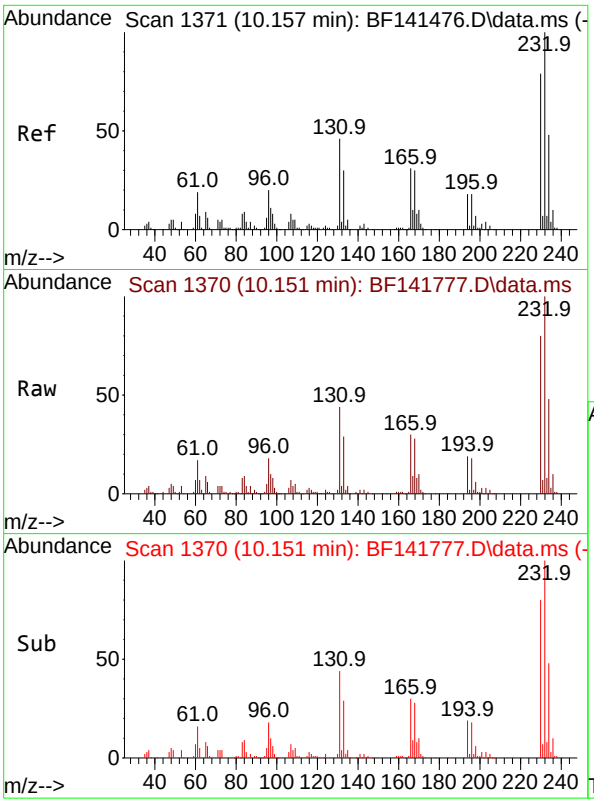


#58
Fluorene
Concen: 45.550 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:166 Resp: 534517

Ion	Ratio	Lower	Upper
166	100		
165	97.0	78.2	117.2
167	13.2	10.7	16.1

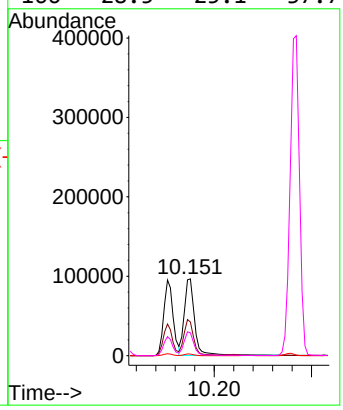




#59
2,3,4,6-Tetrachlorophenol
Concen: 45.087 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:232 Resp: 14187

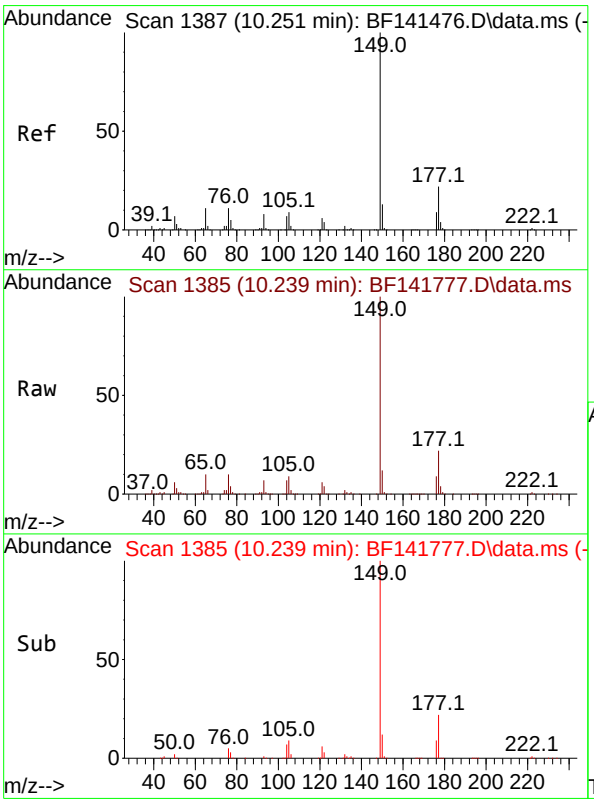
Ion	Ratio	Lower	Upper
232	100		
131	44.4	39.2	58.8
130	2.1	2.1	3.1
166	28.5	25.1	37.7



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

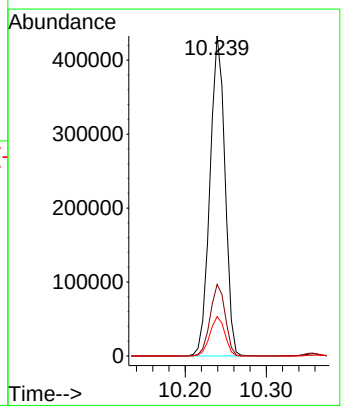
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

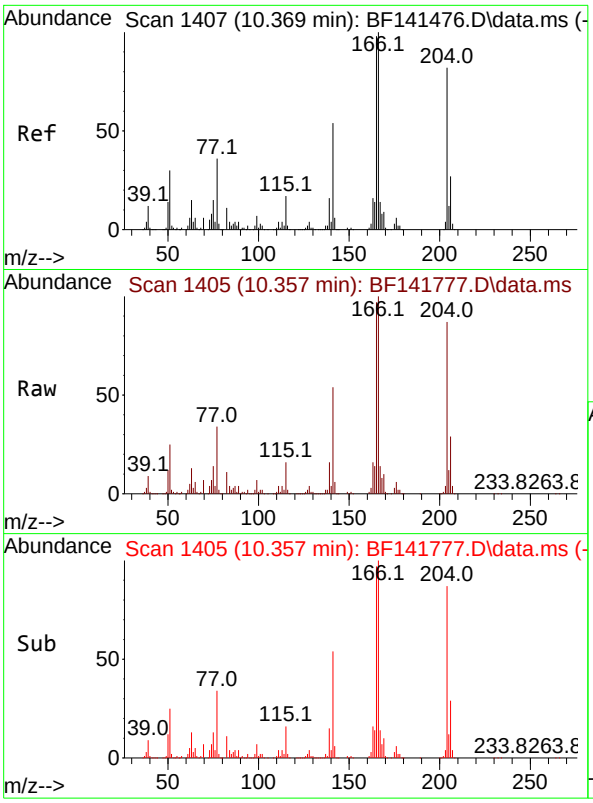


#60
Diethylphthalate
Concen: 46.112 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:149 Resp: 555522

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.8	26.6
150	12.3	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 46.786 ng
RT: 10.357 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

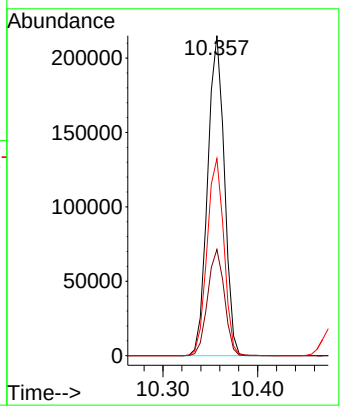
Tgt Ion:204 Resp: 26412

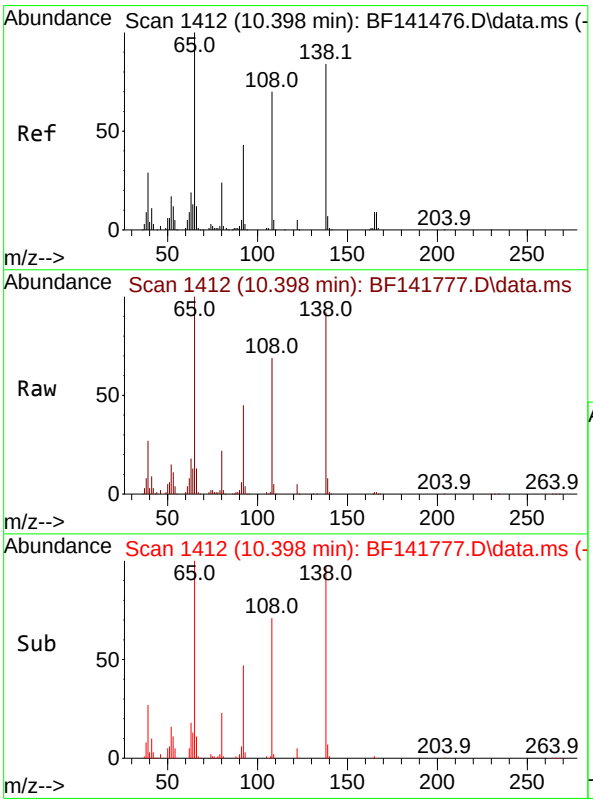
Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.6	40.0
141	61.6	51.9	77.9

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

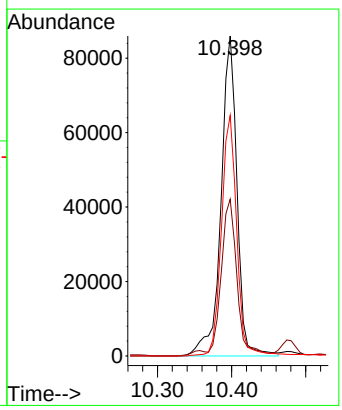


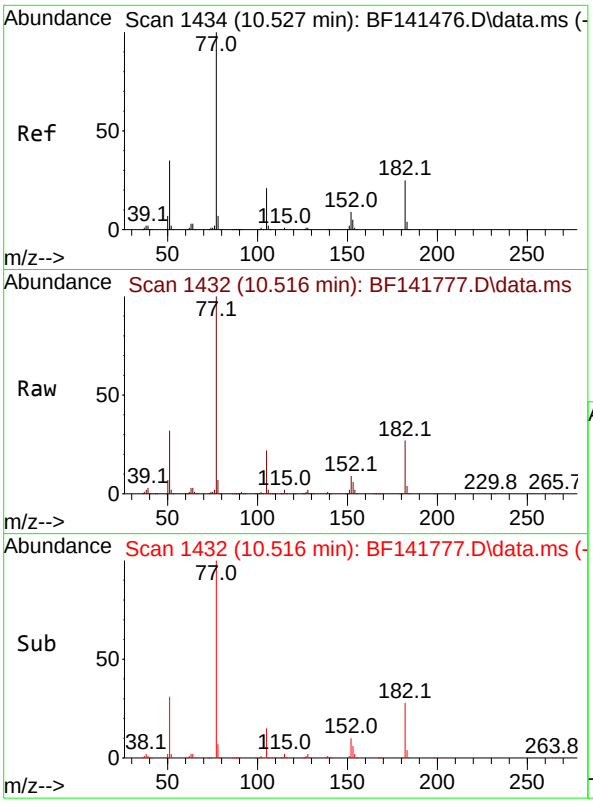


#62
4-Nitroaniline
Concen: 44.149 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:138 Resp: 129151

Ion	Ratio	Lower	Upper
138	100		
92	49.0	31.3	71.3
108	75.2	63.7	103.7

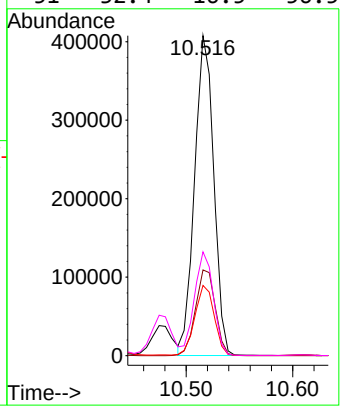




#63
Azobenzene
Concen: 42.585 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 77 Resp: 51001

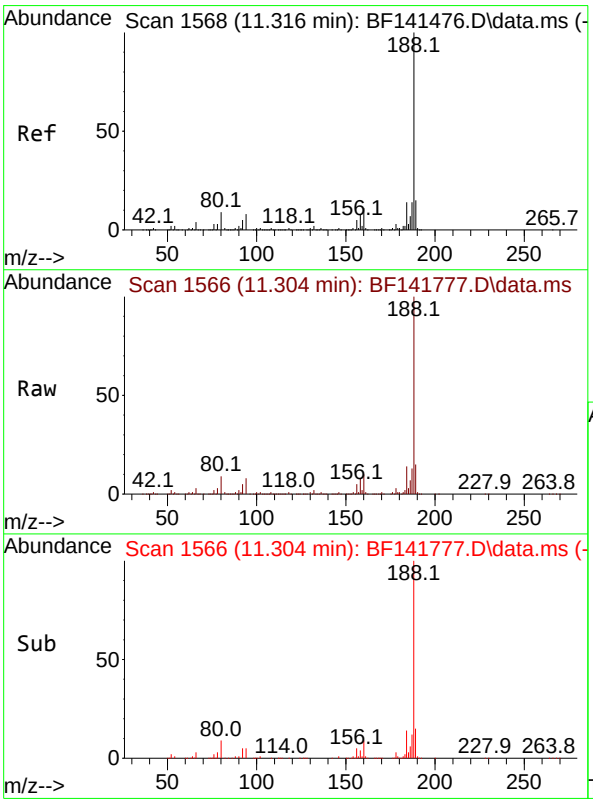
Ion	Ratio	Lower	Upper
77	100		
182	26.8	4.7	44.7
105	22.0	0.4	40.4
51	32.4	16.5	56.5



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

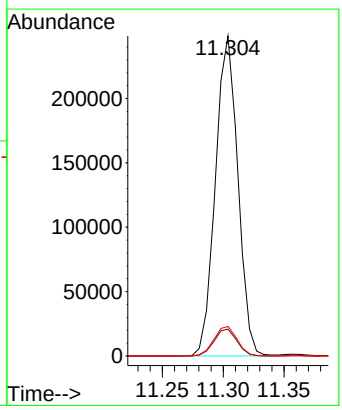
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

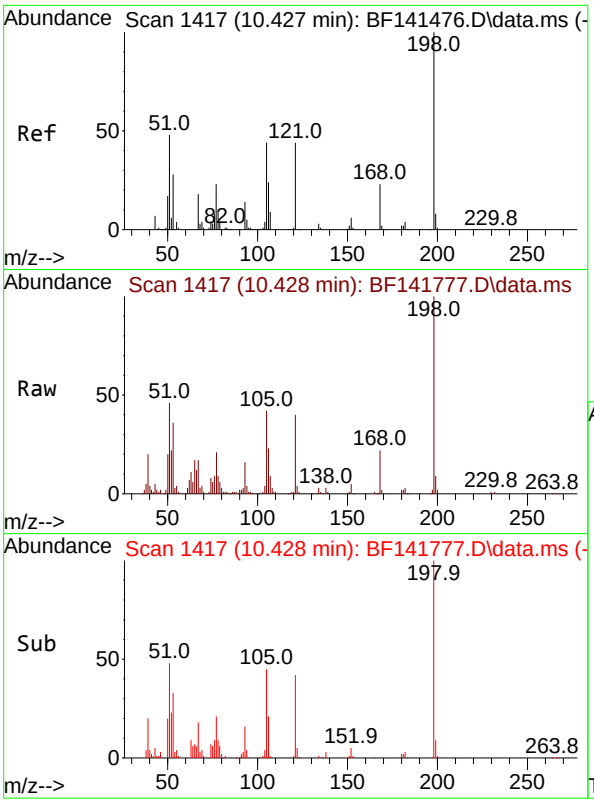


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:188 Resp: 319305

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	9.2	7.3	10.9

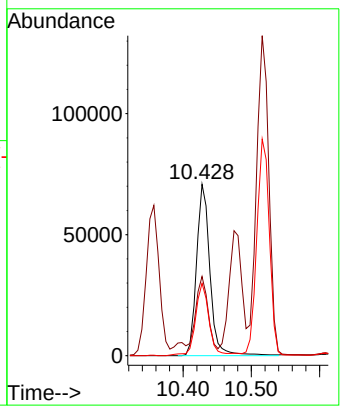




#65
4,6-Dinitro-2-methylphenol
Concen: 43.640 ng
RT: 10.428 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:198 Resp: 9679

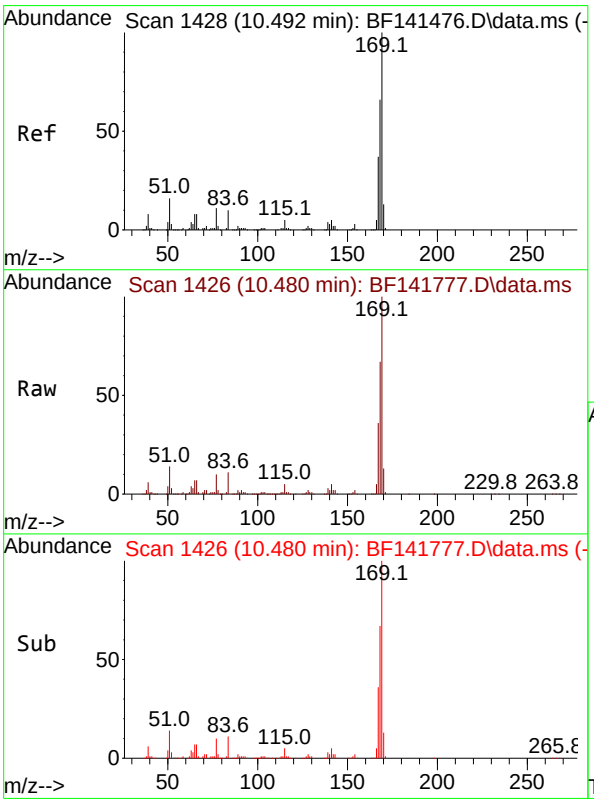
Ion	Ratio	Lower	Upper
198	100		
51	46.2	37.4	77.4
105	42.3	25.2	65.2



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

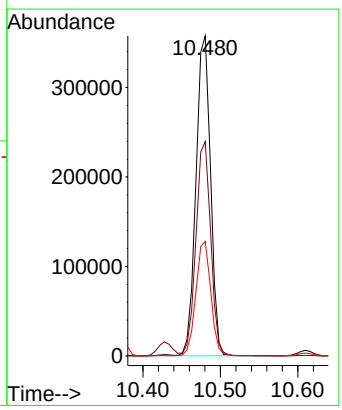
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

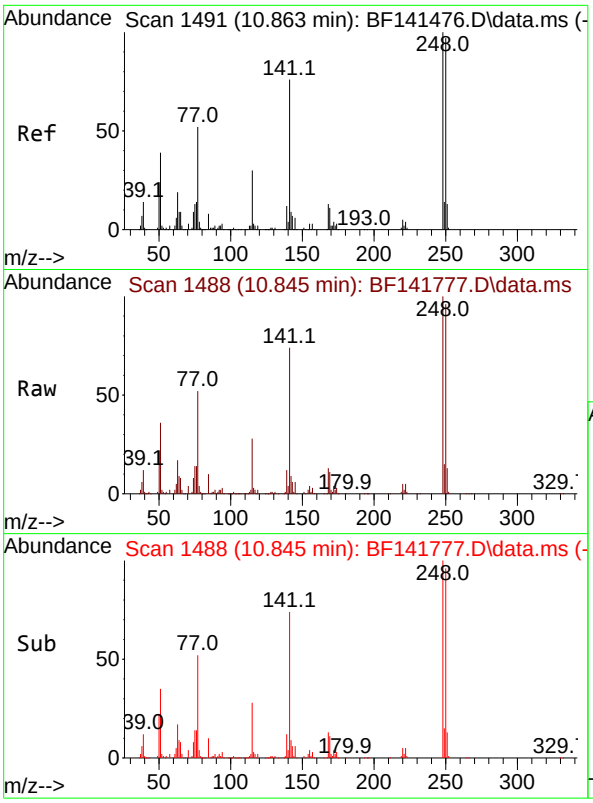


#66
n-Nitrosodiphenylamine
Concen: 45.682 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:169 Resp: 466927

Ion	Ratio	Lower	Upper
169	100		
168	67.0	53.3	79.9
167	35.8	29.4	44.2





#67
4-Bromophenyl-phenylether
Concen: 46.912 ng
RT: 10.845 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

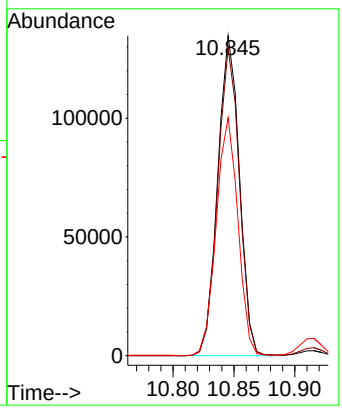
Tgt Ion:248 Resp: 16741

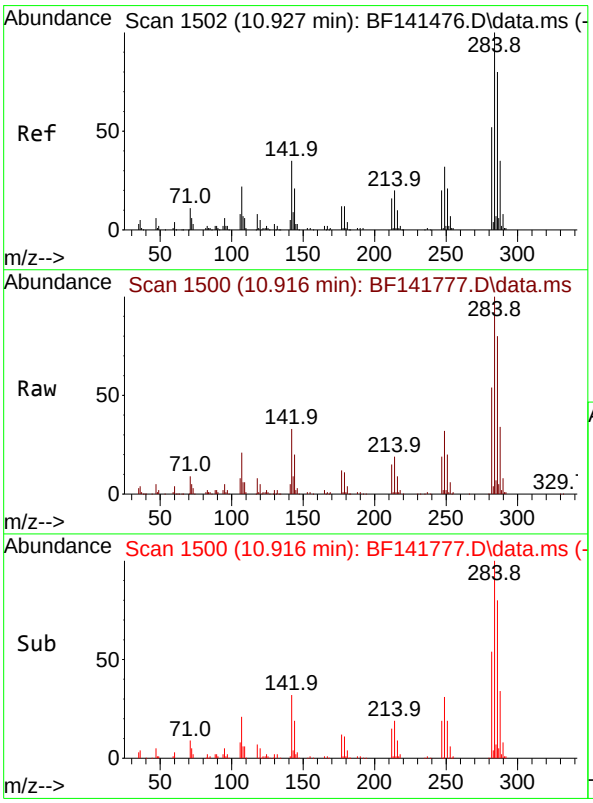
Ion	Ratio	Lower	Upper
248	100		
250	96.1	77.8	116.6
141	74.4	60.6	90.8

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

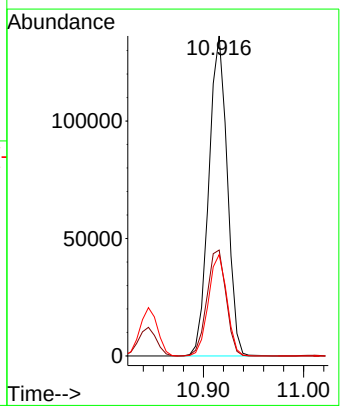


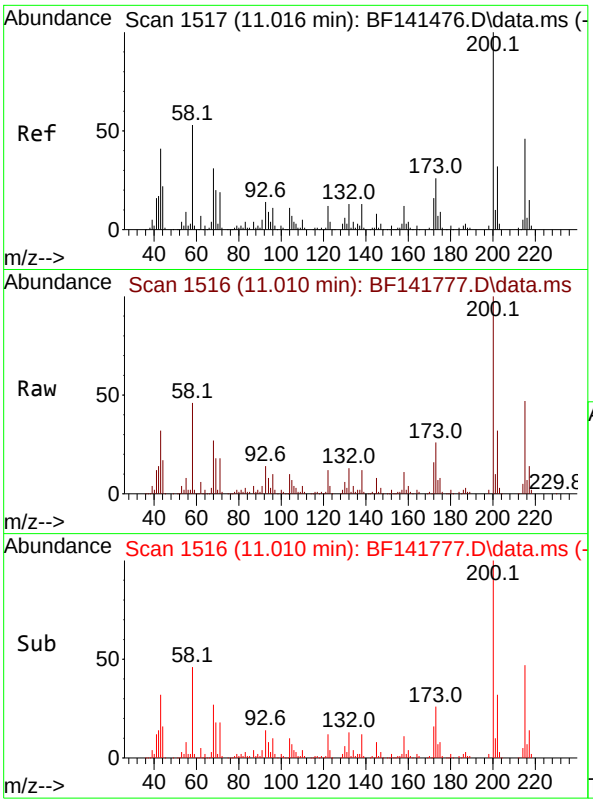


#68
Hexachlorobenzene
Concen: 47.354 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:284 Resp: 174013

Ion	Ratio	Lower	Upper
284	100		
142	33.1	28.0	42.0
249	31.7	25.8	38.8

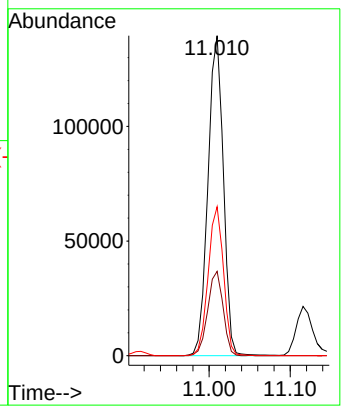




#69
Atrazine
Concen: 59.801 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:200 Resp: 18337

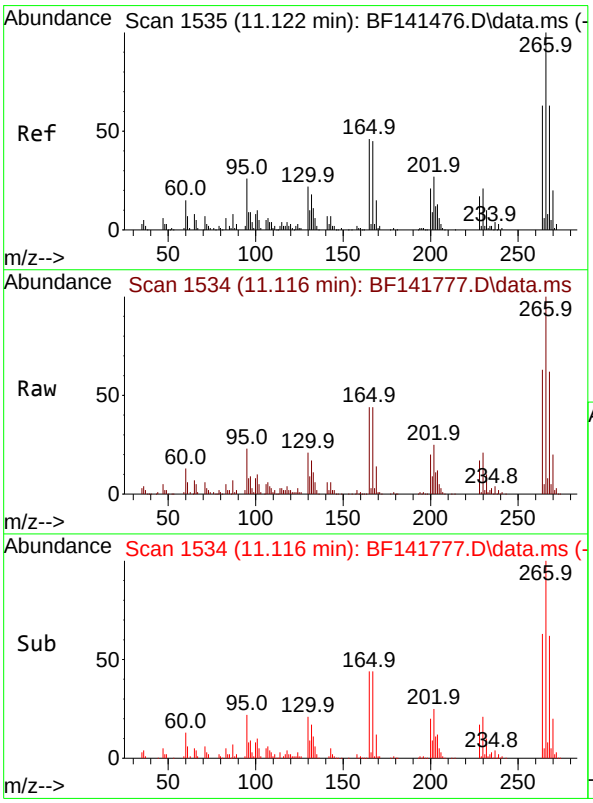
Ion	Ratio	Lower	Upper
200	100		
173	26.4	5.9	45.9
215	46.5	25.9	65.9



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

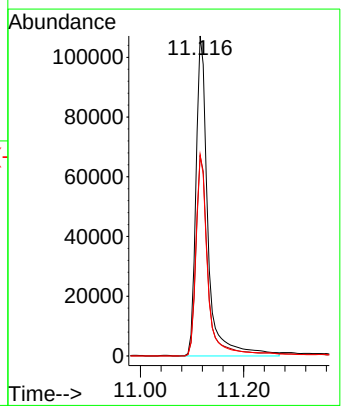
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

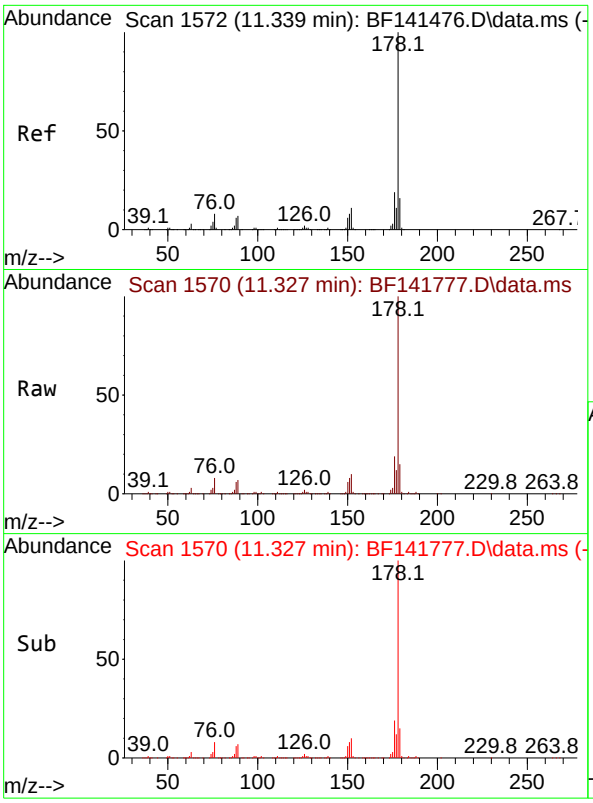


#70
Pentachlorophenol
Concen: 73.399 ng
RT: 11.116 min Scan# 1534
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:266 Resp: 172467

Ion	Ratio	Lower	Upper
266	100		
268	62.5	50.1	75.1
264	62.9	50.1	75.1

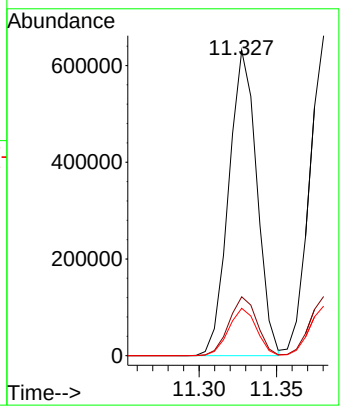




#71
Phenanthrene
Concen: 45.252 ng
RT: 11.327 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

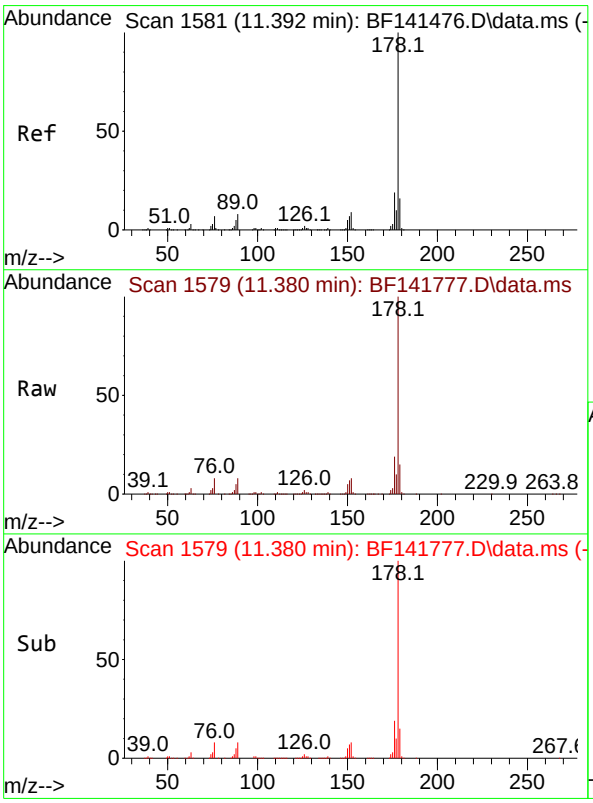
Tgt Ion:178 Resp: 79535

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.5	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
PB166853BS

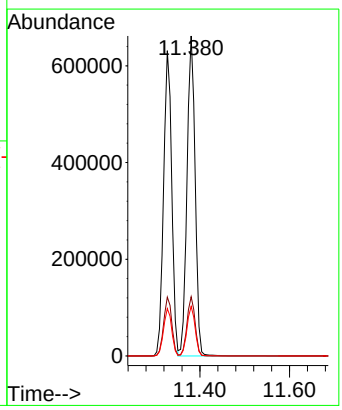
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

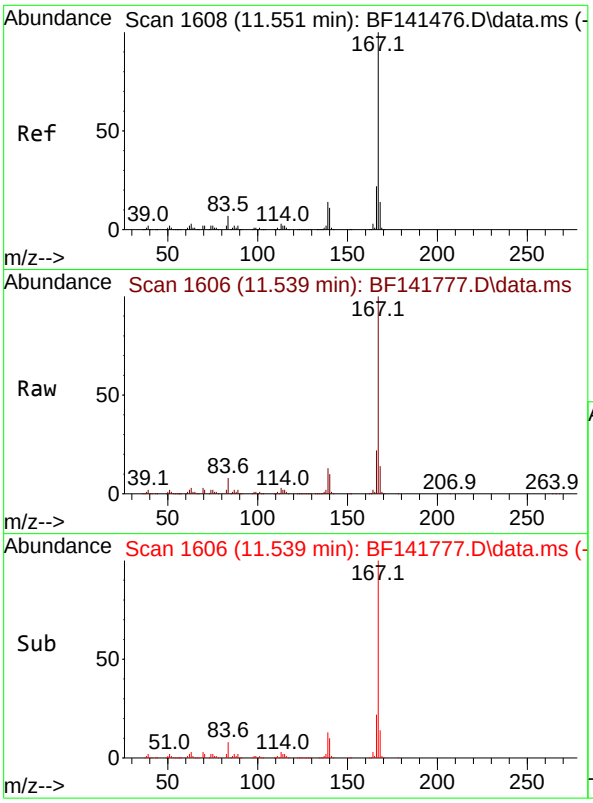


#72
Anthracene
Concen: 47.256 ng
RT: 11.380 min Scan# 1579
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:178 Resp: 834948

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.8	22.2
179	15.5	12.4	18.6

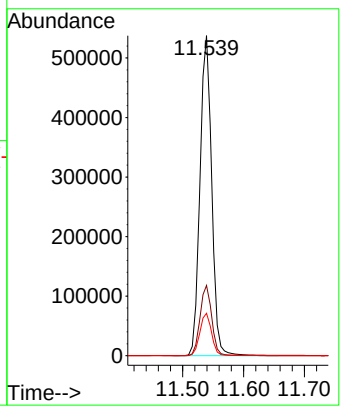




#73
Carbazole
Concen: 44.880 ng
RT: 11.539 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:167 Resp: 71349

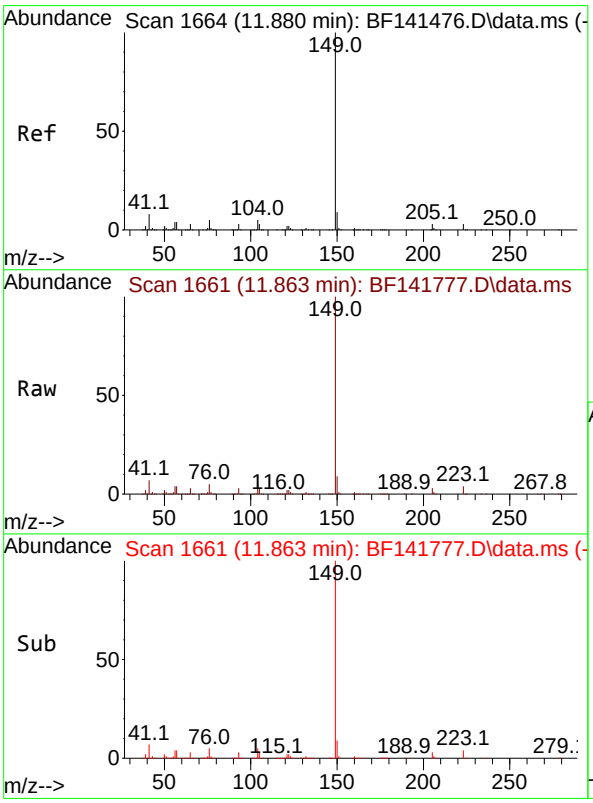
Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.4	26.2
139	13.3	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

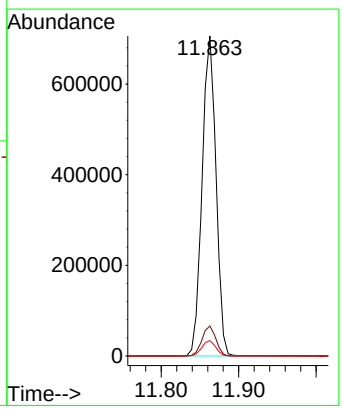
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

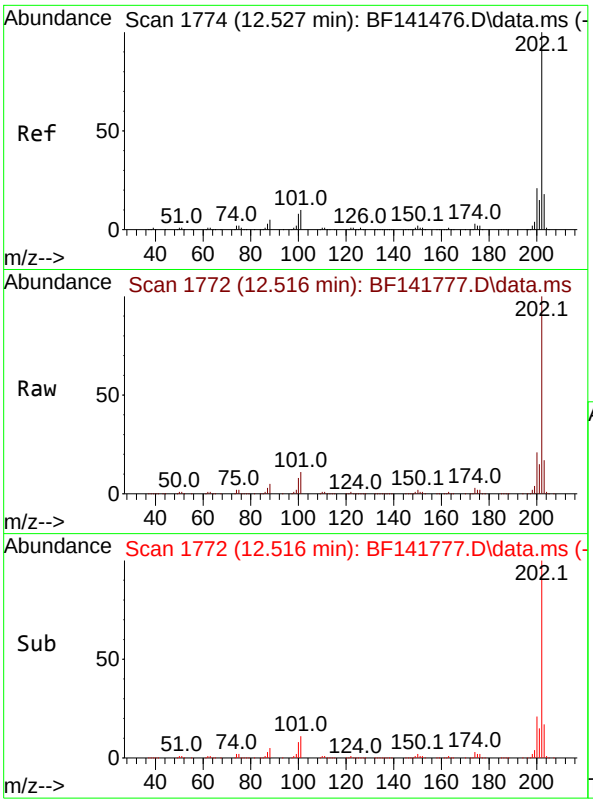


#74
Di-n-butylphthalate
Concen: 47.846 ng
RT: 11.863 min Scan# 1661
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:149 Resp: 878298

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.0
104	4.8	4.2	6.2

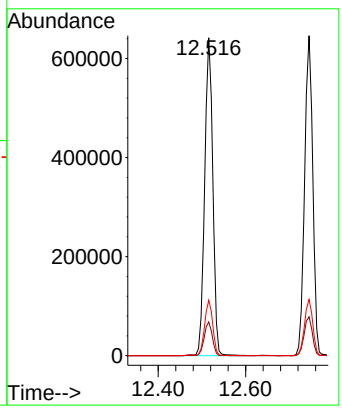




#75
Fluoranthene
Concen: 44.684 ng
RT: 12.516 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:202 Resp: 83265

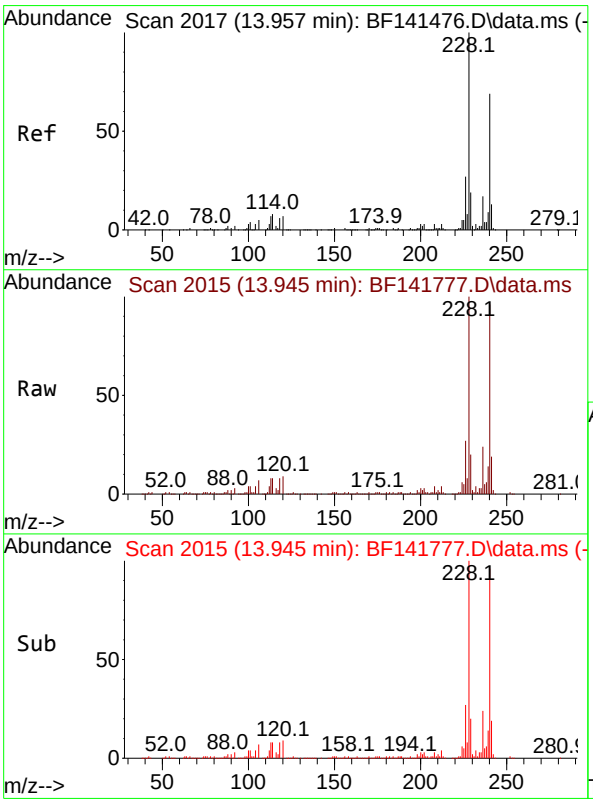
Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	30.2
203	17.5	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

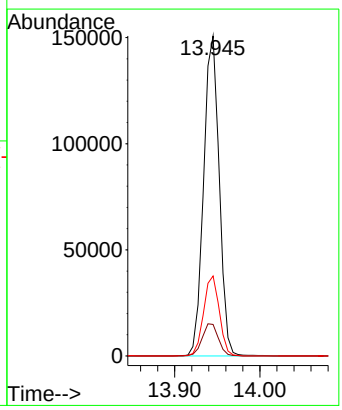
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

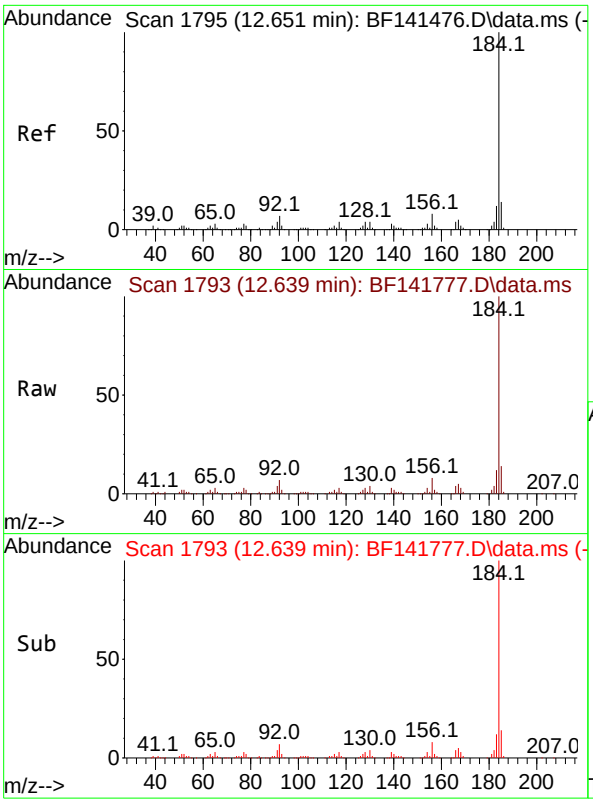


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:240 Resp: 191917

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.0	12.0
236	25.0	19.8	29.8

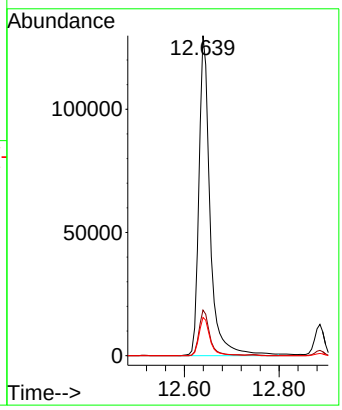




#77
Benzidine
Concen: 50.312 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:184 Resp: 212949

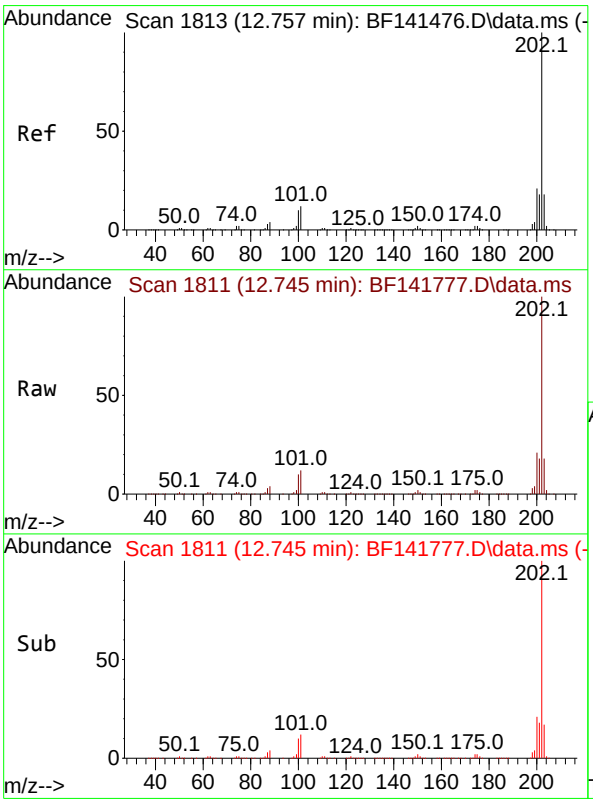
Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.3	16.9
183	12.0	9.3	13.9



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

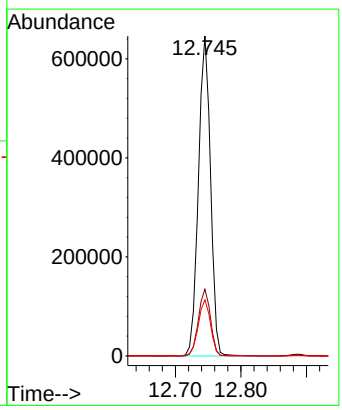
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

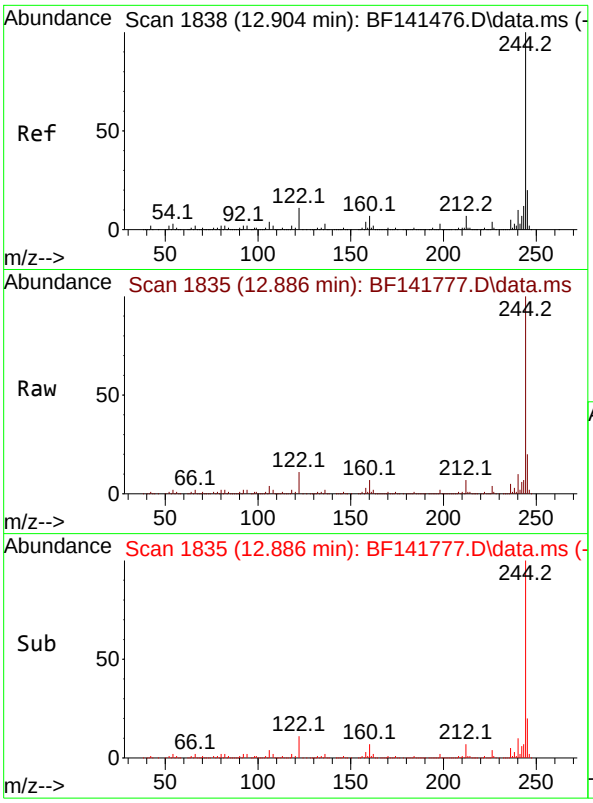


#78
Pyrene
Concen: 50.774 ng
RT: 12.745 min Scan# 1811
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:202 Resp: 829507

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.5	14.3	21.5

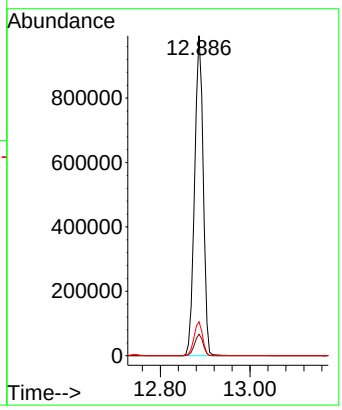




#79
Terphenyl-d14
Concen: 116.067 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:244 Resp: 131948

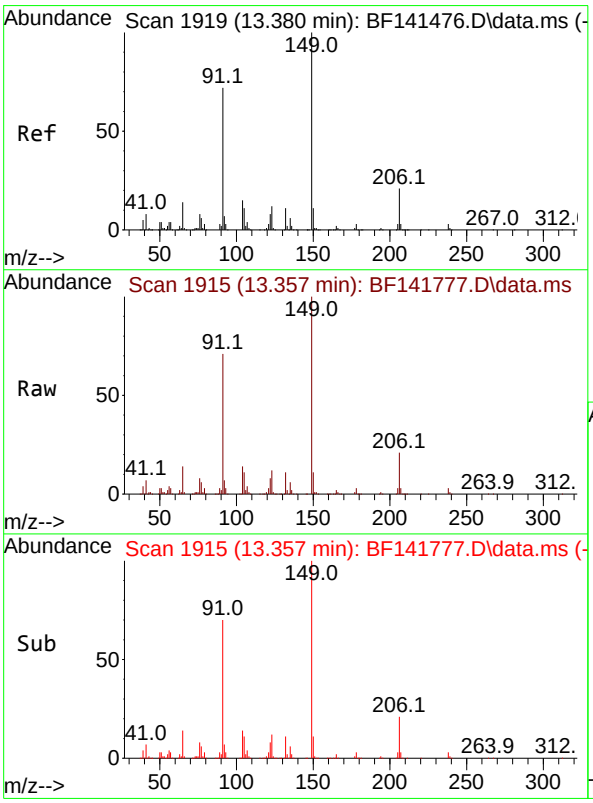
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.6	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

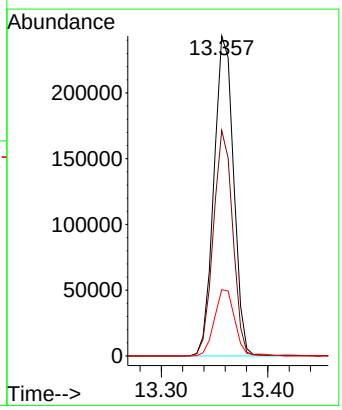
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

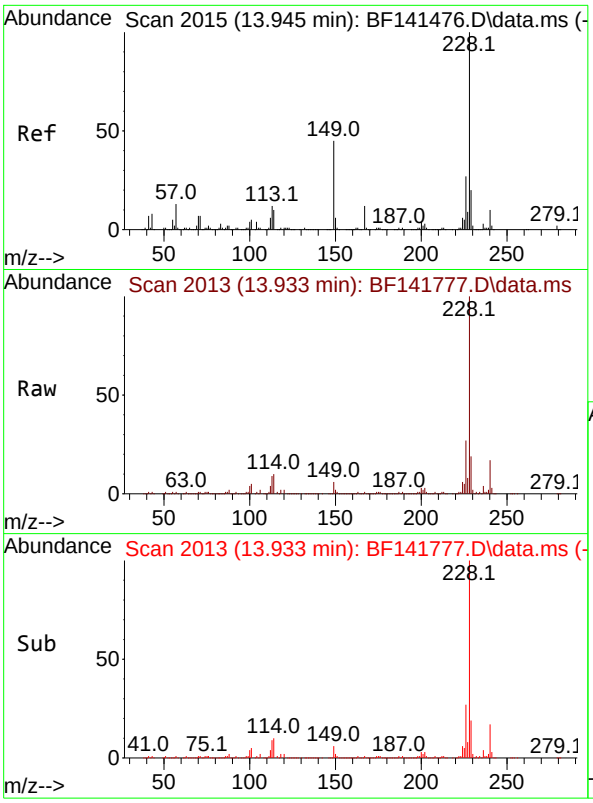


#80
Butylbenzylphthalate
Concen: 55.088 ng
RT: 13.357 min Scan# 1915
Delta R.T. -0.023 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:149 Resp: 311733

Ion	Ratio	Lower	Upper
149	100		
91	70.5	57.8	86.8
206	20.7	16.7	25.1

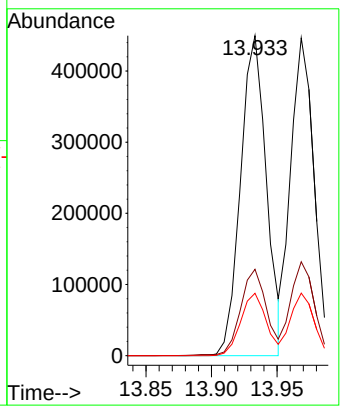




#81
Benzo(a)anthracene
Concen: 48.337 ng
RT: 13.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:228 Resp: 616649

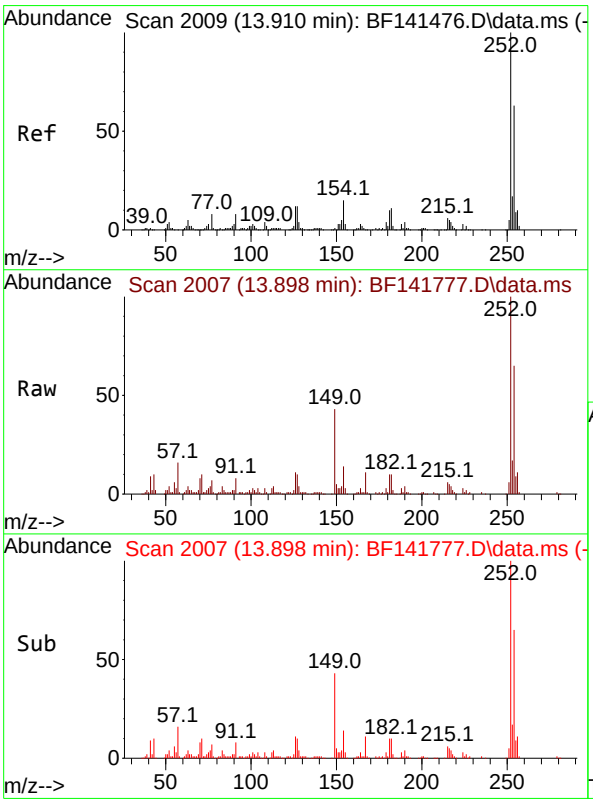
Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.8	32.8
229	19.5	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

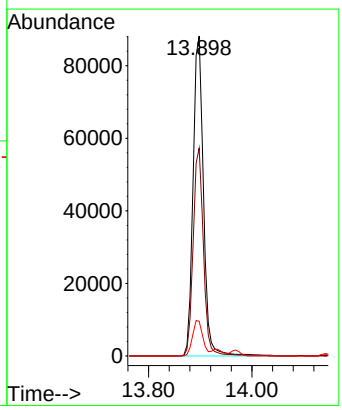
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

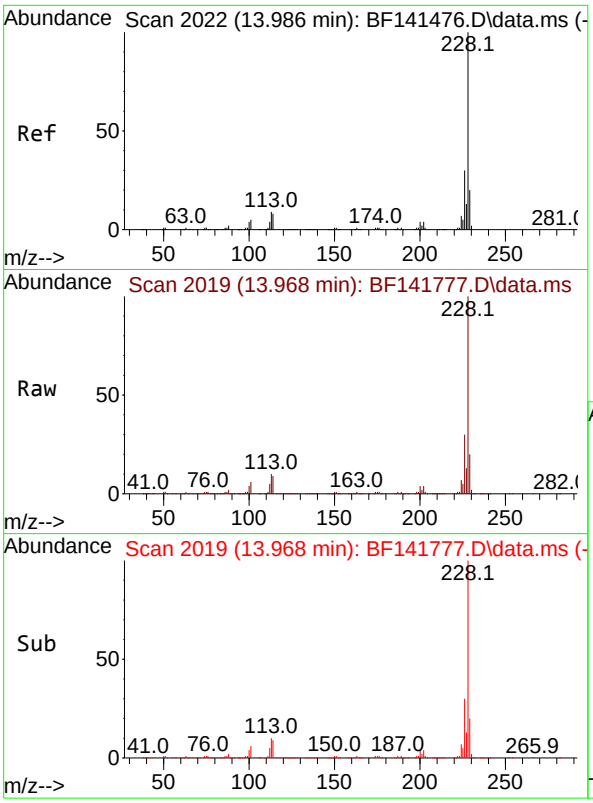


#82
3,3'-Dichlorobenzidine
Concen: 33.760 ng
RT: 13.898 min Scan# 2007
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:252 Resp: 123372

Ion	Ratio	Lower	Upper
252	100		
254	64.9	50.6	76.0
126	10.8	9.3	13.9

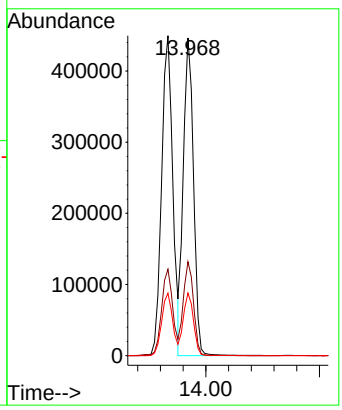




#83
Chrysene
Concen: 47.140 ng
RT: 13.968 min Scan# 2(
Delta R.T. -0.023 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:228 Resp: 55528

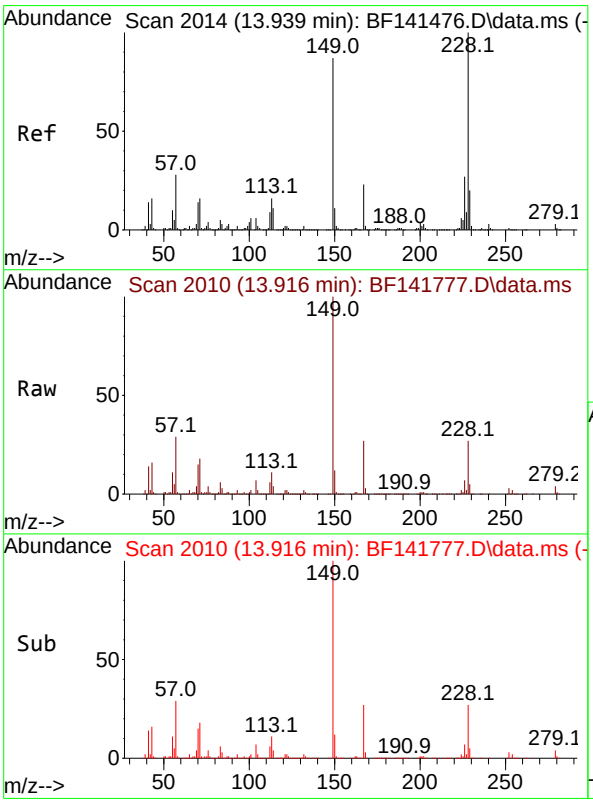
Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.0	36.0
229	19.7	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED

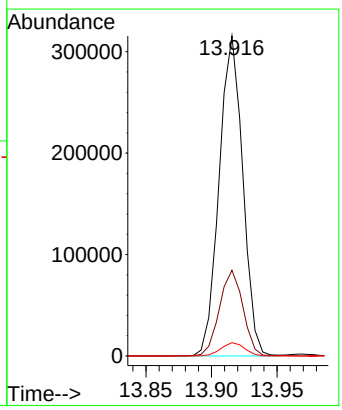
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

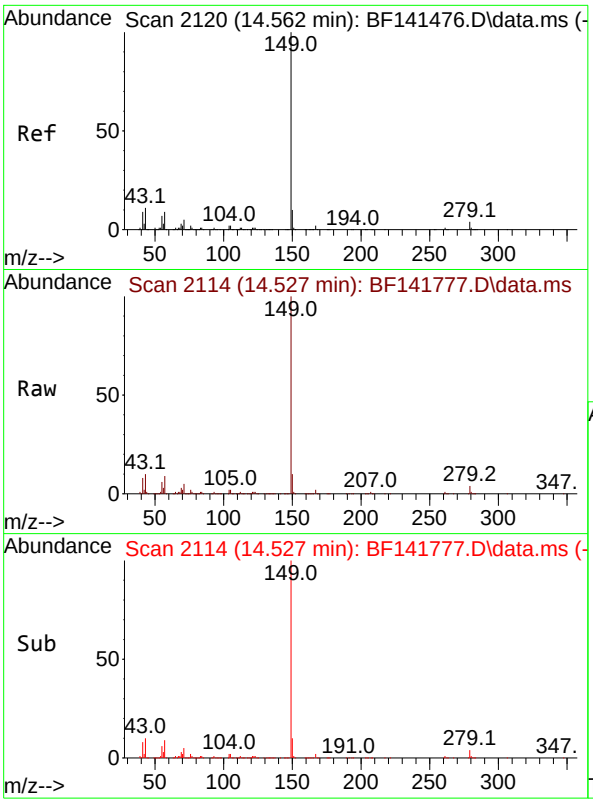


#84
Bis(2-ethylhexyl)phthalate
Concen: 61.830 ng
RT: 13.916 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:149 Resp: 394616

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.4	32.0
279	4.1	3.1	4.7

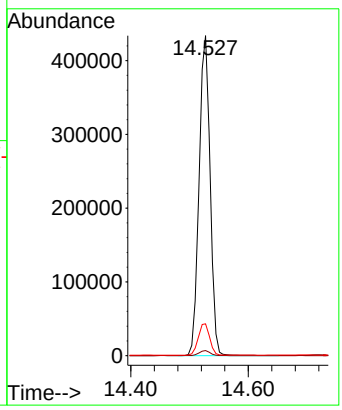




#85
Di-n-octyl phthalate
Concen: 62.150 ng
RT: 14.527 min Scan# 21
Delta R.T. -0.035 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:149 Resp: 56585

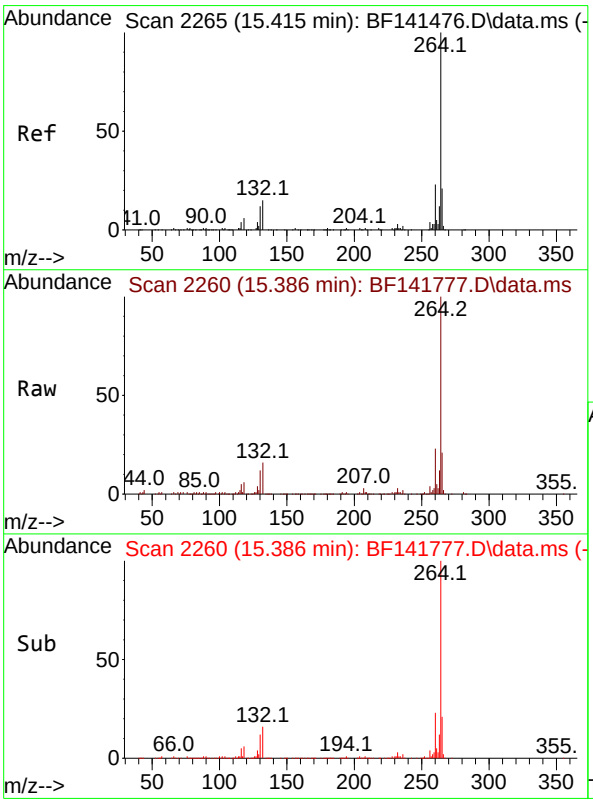
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.2	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED

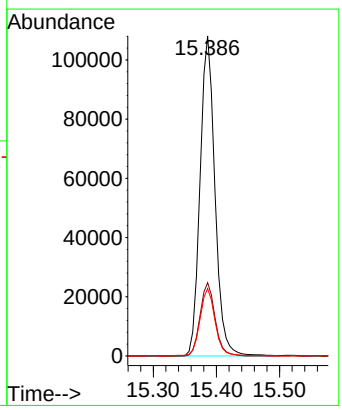
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

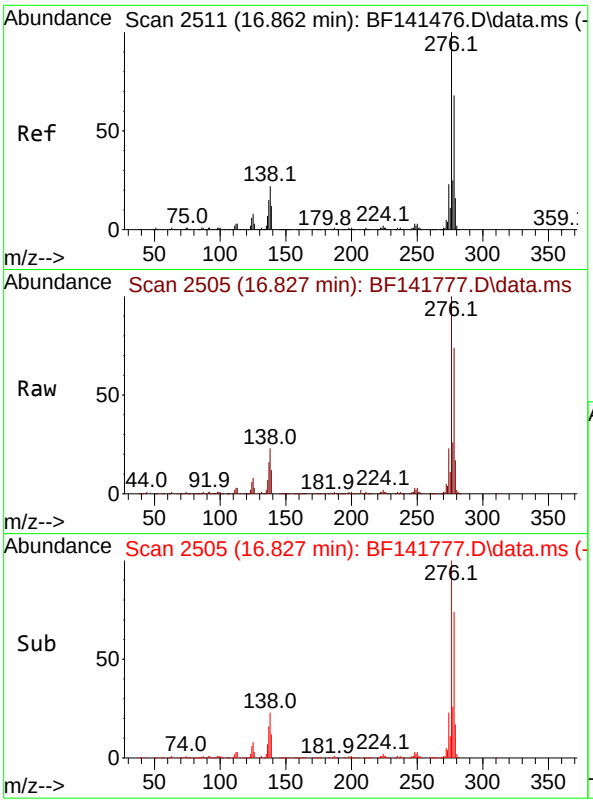


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:264 Resp: 177241

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	28.0
265	21.0	17.0	25.4

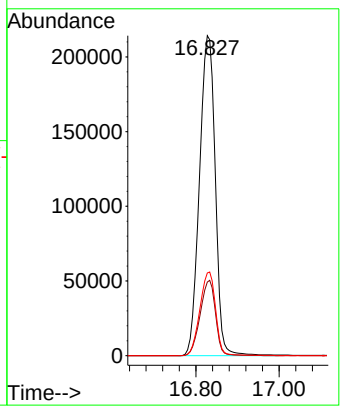




#87
Indeno(1,2,3-cd)pyrene
Concen: 51.672 ng
RT: 16.827 min Scan# 2
Delta R.T. -0.047 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:276 Resp: 56588

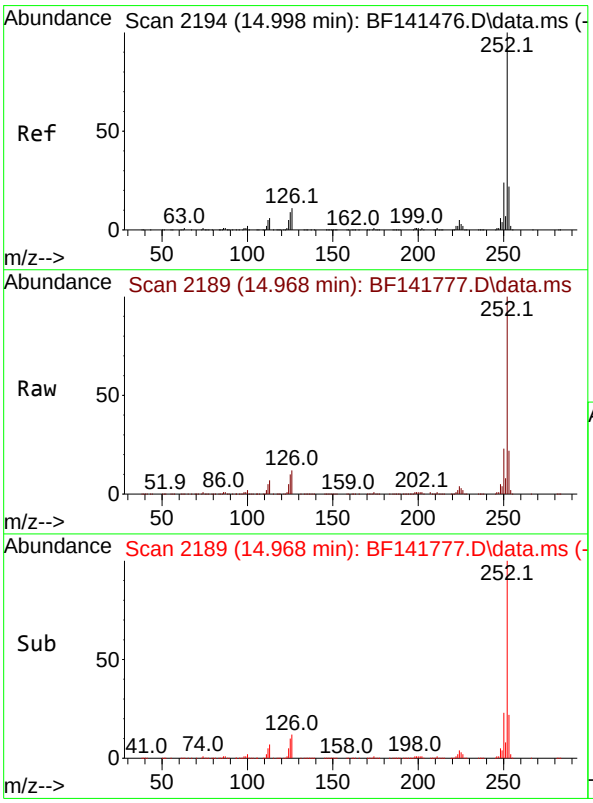
Ion	Ratio	Lower	Upper
276	100		
138	22.9	18.0	27.0
277	25.9	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

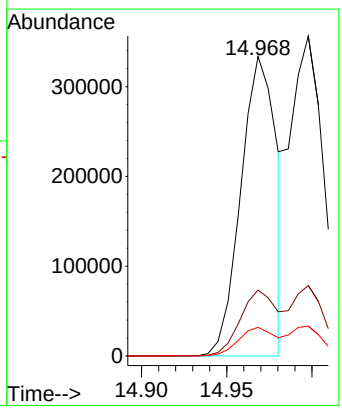
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

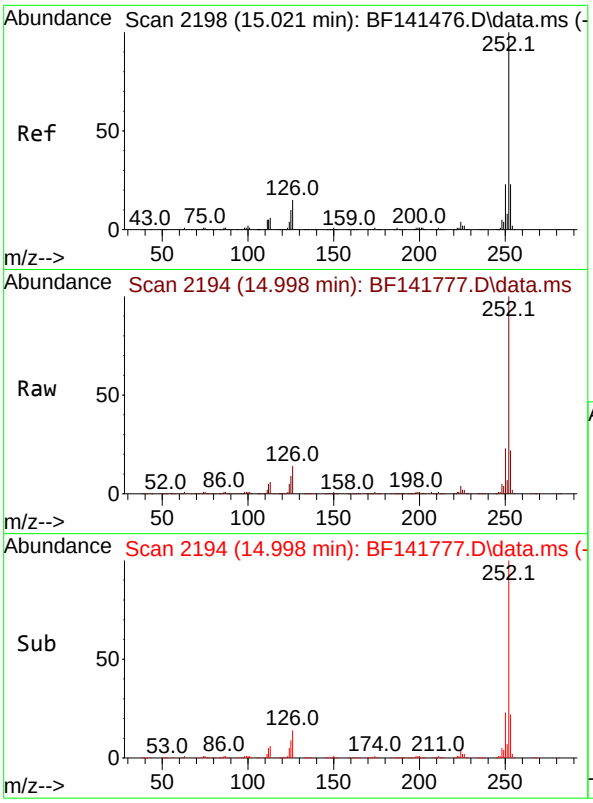


#88
Benzo(b)fluoranthene
Concen: 40.451 ng
RT: 14.968 min Scan# 2189
Delta R.T. -0.035 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:252 Resp: 481397

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.6	7.0	10.6

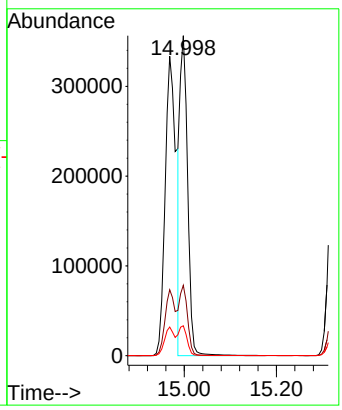




#89
Benzo(k)fluoranthene
Concen: 40.490 ng
RT: 14.998 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:252 Resp: 41147

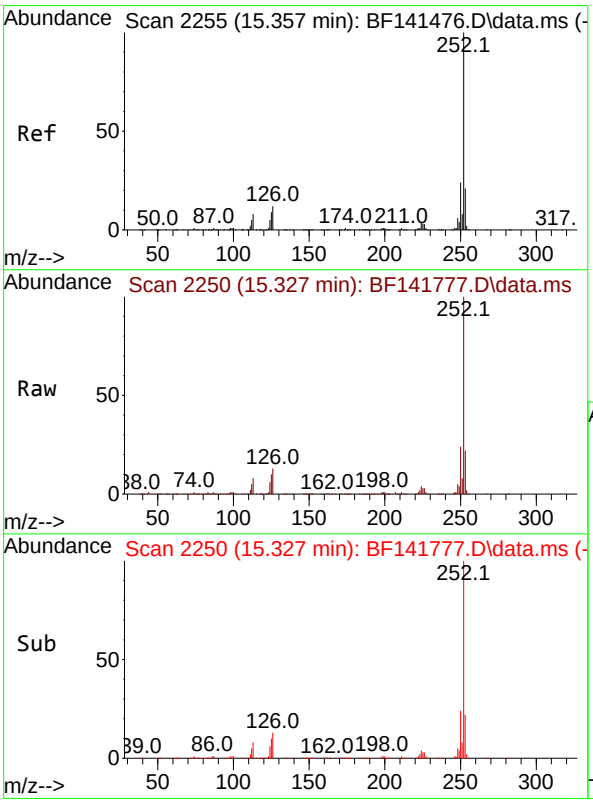
Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.0	27.0
125	9.4	7.4	11.0



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

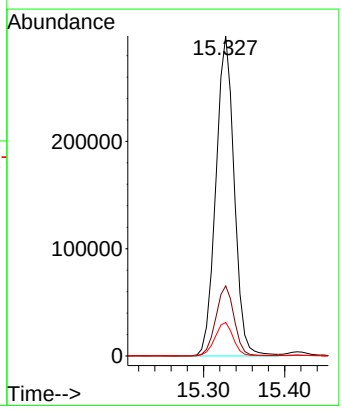
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

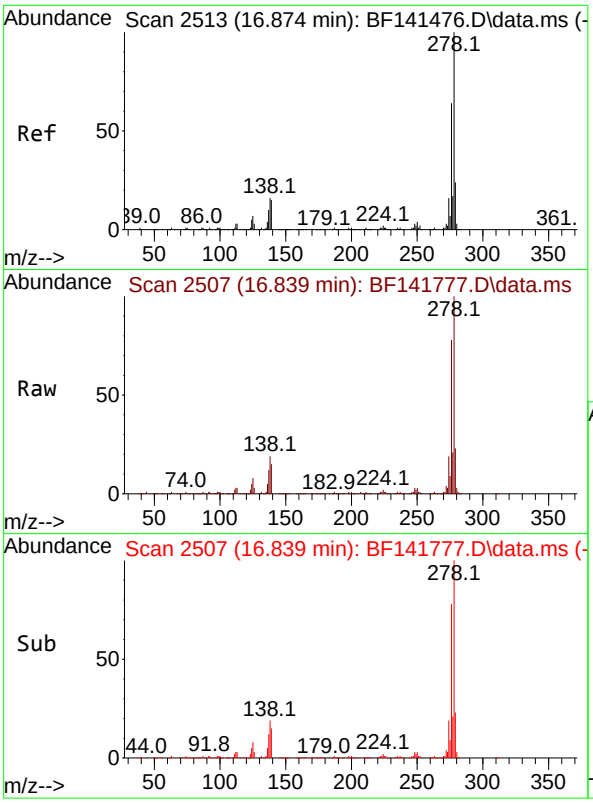


#90
Benzo(a)pyrene
Concen: 48.614 ng
RT: 15.327 min Scan# 2250
Delta R.T. -0.035 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:252 Resp: 468144

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	10.4	7.4	11.2

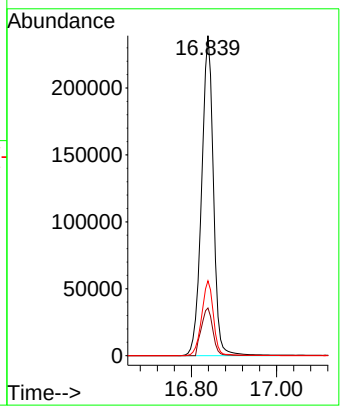




#91
Dibenzo(a,h)anthracene
Concen: 52.001 ng
RT: 16.839 min Scan# 2
Delta R.T. -0.053 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:278 Resp: 46145

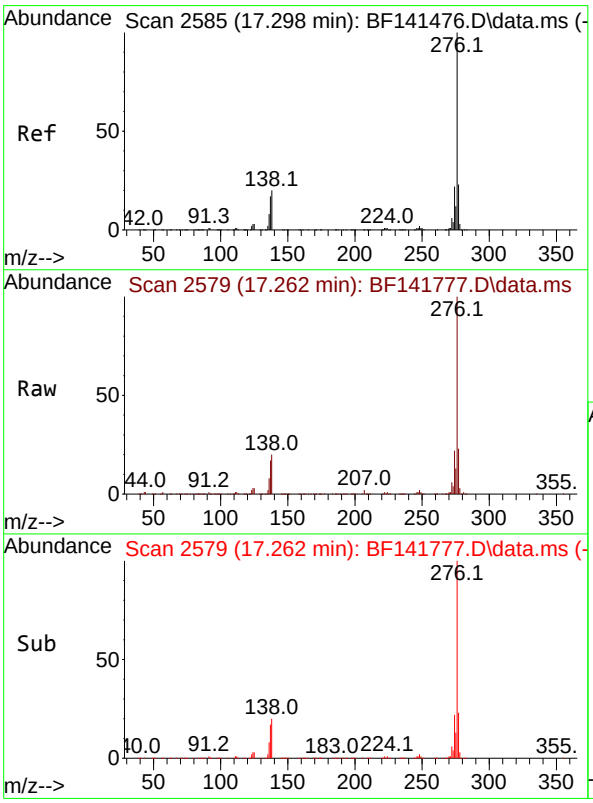
Ion	Ratio	Lower	Upper
278	100		
139	14.9	11.8	17.6
279	23.4	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations
APPROVED

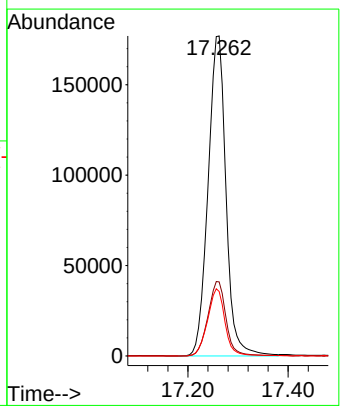
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#92
Benzo(g,h,i)perylene
Concen: 47.372 ng
RT: 17.262 min Scan# 2579
Delta R.T. -0.053 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:276 Resp: 439909

Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.6	28.0
138	20.1	15.9	23.9



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1421
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1300		260	470	ug/Kg
108-95-2	Phenol	2100		120	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2100		120	240	ug/Kg
95-57-8	2-Chlorophenol	2100		120	240	ug/Kg
95-48-7	2-Methylphenol	2100		110	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		130	240	ug/Kg
98-86-2	Acetophenone	2200		120	240	ug/Kg
65794-96-9	3+4-Methylphenols	2200		110	470	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2000		57.2	110	ug/Kg
67-72-1	Hexachloroethane	2100		120	240	ug/Kg
98-95-3	Nitrobenzene	2000		130	240	ug/Kg
78-59-1	Isophorone	2200		120	240	ug/Kg
88-75-5	2-Nitrophenol	2200		130	240	ug/Kg
105-67-9	2,4-Dimethylphenol	2700		130	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2100		120	240	ug/Kg
120-83-2	2,4-Dichlorophenol	2100		110	240	ug/Kg
91-20-3	Naphthalene	2000		120	240	ug/Kg
106-47-8	4-Chloroaniline	850		120	240	ug/Kg
87-68-3	Hexachlorobutadiene	2100		120	240	ug/Kg
105-60-2	Caprolactam	2200		120	470	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		110	240	ug/Kg
91-57-6	2-Methylnaphthalene	2000		120	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6200	E	220	470	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		100	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		110	240	ug/Kg
92-52-4	1,1-Biphenyl	2300		120	240	ug/Kg
91-58-7	2-Chloronaphthalene	2100		120	240	ug/Kg
88-74-4	2-Nitroaniline	2000		130	240	ug/Kg
131-11-3	Dimethylphthalate	2100		120	240	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1421
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2200		120	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		120	240	ug/Kg
99-09-2	3-Nitroaniline	1300		130	240	ug/Kg
83-32-9	Acenaphthene	2000		120	240	ug/Kg
51-28-5	2,4-Dinitrophenol	3000		340	470	ug/Kg
100-02-7	4-Nitrophenol	3700		160	470	ug/Kg
132-64-9	Dibenzofuran	2000		120	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		120	240	ug/Kg
84-66-2	Diethylphthalate	2000		110	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		120	240	ug/Kg
86-73-7	Fluorene	2100		120	240	ug/Kg
100-01-6	4-Nitroaniline	2000		150	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		170	470	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2200		120	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		110	240	ug/Kg
118-74-1	Hexachlorobenzene	2200		120	240	ug/Kg
1912-24-9	Atrazine	2700		130	240	ug/Kg
87-86-5	Pentachlorophenol	3200		110	470	ug/Kg
85-01-8	Phenanthrene	2100		120	240	ug/Kg
120-12-7	Anthracene	2200		120	240	ug/Kg
86-74-8	Carbazole	2100		110	240	ug/Kg
84-74-2	Di-n-butylphthalate	2100		120	240	ug/Kg
206-44-0	Fluoranthene	2000		120	240	ug/Kg
129-00-0	Pyrene	2200		120	240	ug/Kg
85-68-7	Butylbenzylphthalate	2300		140	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1700		140	470	ug/Kg
56-55-3	Benzo(a)anthracene	2200		110	240	ug/Kg
218-01-9	Chrysene	2100		110	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2600		130	240	ug/Kg
117-84-0	Di-n-octyl phthalate	2800		160	470	ug/Kg
205-99-2	Benzo(b)fluoranthene	2100		120	240	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1421
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		120	240	ug/Kg
50-32-8	Benzo(a)pyrene	2200		130	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2400		110	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2400		120	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2200		110	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2300		120	240	ug/Kg
123-91-1	1,4-Dioxane	2100		160	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		110	240	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	100		18 - 112	67%	SPK: 150
13127-88-3	Phenol-d6	98.8		15 - 107	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.3		18 - 107	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.2		20 - 109	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.2		10 - 116	63%	SPK: 150
1718-51-0	Terphenyl-d14	74.9		10 - 105	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	88800	6.781			
1146-65-2	Naphthalene-d8	356000	8.063			
15067-26-2	Acenaphthene-d10	195000	9.816			
1517-22-2	Phenanthrene-d10	324000	11.304			
1719-03-5	Chrysene-d12	195000	13.945			
1520-96-3	Perylene-d12	189000	15.386			

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\BF022525\
Data File : BF141762.D
Acq On : 25 Feb 2025 14:07
Operator : RC/JU
Sample : Q1421-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 00:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	88792	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	356048	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	194554	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	323859	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	195463	20.000	ng		-0.02
86) Perylene-d12	15.386	264	188853	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	566792	100.075	ng		0.00
7) Phenol-d6	6.428	99	707518	98.837	ng		-0.01
23) Nitrobenzene-d5	7.345	82	445670	65.287	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	184005	94.150	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	873991	69.210	ng		-0.01
79) Terphenyl-d14	12.886	244	866854	74.868	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.575	88	99078	43.465	ng		98
3) Pyridine	3.304	79	229851	42.374	ng		93
4) n-Nitrosodimethylamine	3.257	42	138682	38.611	ng		90
6) Aniline	6.445	93	226829	33.780	ng	#	75
8) 2-Chlorophenol	6.575	128	276685	45.211	ng		97
9) Benzaldehyde	6.334	77	106505	27.998	ng		97
10) Phenol	6.439	94	335449	45.023	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	248270	44.364	ng		99
12) 1,3-Dichlorobenzene	6.722	146	289182	44.759	ng		96
13) 1,4-Dichlorobenzene	6.798	146	293245	44.424	ng		98
14) 1,2-Dichlorobenzene	6.951	146	277220	45.248	ng		99
15) Benzyl Alcohol	6.928	79	236006	42.993	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.057	45	383534	40.037	ng		64
17) 2-Methylphenol	7.051	107	214180	44.722	ng		93
18) Hexachloroethane	7.286	117	109393	44.778	ng		99
19) n-Nitroso-di-n-propyla...	7.198	70	184853	43.171	ng		94
20) 3+4-Methylphenols	7.204	107	282352	46.391	ng	#	75
22) Acetophenone	7.192	105	417099	47.093	ng		92
24) Nitrobenzene	7.369	77	282638	42.461	ng		96
25) Isophorone	7.604	82	501969	46.118	ng		99
26) 2-Nitrophenol	7.681	139	151422	45.723	ng		94
27) 2,4-Dimethylphenol	7.728	122	219153	56.646	ng		98
28) bis(2-Chloroethoxy)met...	7.816	93	306733	43.979	ng		100
29) 2,4-Dichlorophenol	7.934	162	227778	43.575	ng		100
30) 1,2,4-Trichlorobenzene	8.004	180	245784	43.178	ng		99
31) Naphthalene	8.086	128	789682	42.608	ng		100
32) Benzoic acid	7.845	122	59439	14.791	ng		98
33) 4-Chloroaniline	8.139	127	116223	17.961	ng		98
34) Hexachlorobutadiene	8.198	225	151076	44.209	ng		99
35) Caprolactam	8.510	113	75484m	47.428	ng		
36) 4-Chloro-3-methylphenol	8.633	107	247497	42.743	ng		99
37) 2-Methylnaphthalene	8.775	142	501251	41.562	ng		100
38) 1-Methylnaphthalene	8.875	142	487134	41.703	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	275848	49.007	ng		99
41) Hexachlorocyclopentadiene	8.928	237	244112	130.391	ng		98
43) 2,4,6-Trichlorophenol	9.063	196	157396	43.266	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141762.D
Acq On : 25 Feb 2025 14:07
Operator : RC/JU
Sample : Q1421-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 00:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	169521	42.997	ng	98
46) 1,1'-Biphenyl	9.239	154	725705	48.113	ng	99
47) 2-Chloronaphthalene	9.263	162	494895	44.370	ng	99
48) 2-Nitroaniline	9.369	65	160694	42.929	ng	94
49) Acenaphthylene	9.680	152	755865	45.562	ng	100
50) Dimethylphthalate	9.539	163	581376	44.018	ng	99
51) 2,6-Dinitrotoluene	9.610	165	128111	44.370	ng	94
52) Acenaphthene	9.851	154	469732	42.116	ng	99
53) 3-Nitroaniline	9.780	138	84069	27.053	ng	96
54) 2,4-Dinitrophenol	9.898	184	107902	62.880	ng	90
55) Dibenzofuran	10.022	168	679468	41.505	ng	100
56) 4-Nitrophenol	9.963	139	178963	77.578	ng	93
57) 2,4-Dinitrotoluene	10.016	165	168790	43.913	ng	98
58) Fluorene	10.369	166	556982	44.002	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.145	232	144069	42.444	ng	92
60) Diethylphthalate	10.239	149	552047	42.482	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	268025	44.014	ng	98
62) 4-Nitroaniline	10.398	138	133998	42.465	ng	95
63) Azobenzene	10.516	77	595687	46.111	ng	95
65) 4,6-Dinitro-2-methylph...	10.427	198	84606	37.608	ng	93
66) n-Nitrosodiphenylamine	10.475	169	472300	45.558	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	165760	45.796	ng	99
68) Hexachlorobenzene	10.916	284	174405	46.793	ng	98
69) Atrazine	11.010	200	178296	57.328	ng	99
70) Pentachlorophenol	11.116	266	160396	67.302	ng	99
71) Phenanthrene	11.327	178	797195	44.718	ng	100
72) Anthracene	11.380	178	828278	46.220	ng	100
73) Carbazole	11.539	167	710387	44.056	ng	99
74) Di-n-butylphthalate	11.863	149	830961	44.631	ng	100
75) Fluoranthene	12.516	202	785350	41.553	ng	100
77) Benzidine	12.639	184	280116	64.980	ng	99
78) Pyrene	12.745	202	778525	46.789	ng	99
80) Butylbenzylphthalate	13.357	149	285094	49.467	ng	98
81) Benzo(a)anthracene	13.933	228	595321	45.818	ng	100
82) 3,3'-Dichlorobenzidine	13.898	252	132055	35.480	ng	99
83) Chrysene	13.968	228	540286	45.035	ng	100
84) Bis(2-ethylhexyl)phtha...	13.915	149	354228	54.495	ng	99
85) Di-n-octyl phthalate	14.527	149	550072	59.320	ng	99
87) Indeno(1,2,3-cd)pyrene	16.827	276	592429	50.769	ng	99
88) Benzo(b)fluoranthene	14.968	252	564333	44.504	ng	99
89) Benzo(k)fluoranthene	14.998	252	445721	41.164	ng	99
90) Benzo(a)pyrene	15.327	252	482833	47.057	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	478481	50.605	ng	99
92) Benzo(g,h,i)perylene	17.256	276	462853	46.779	ng	100

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

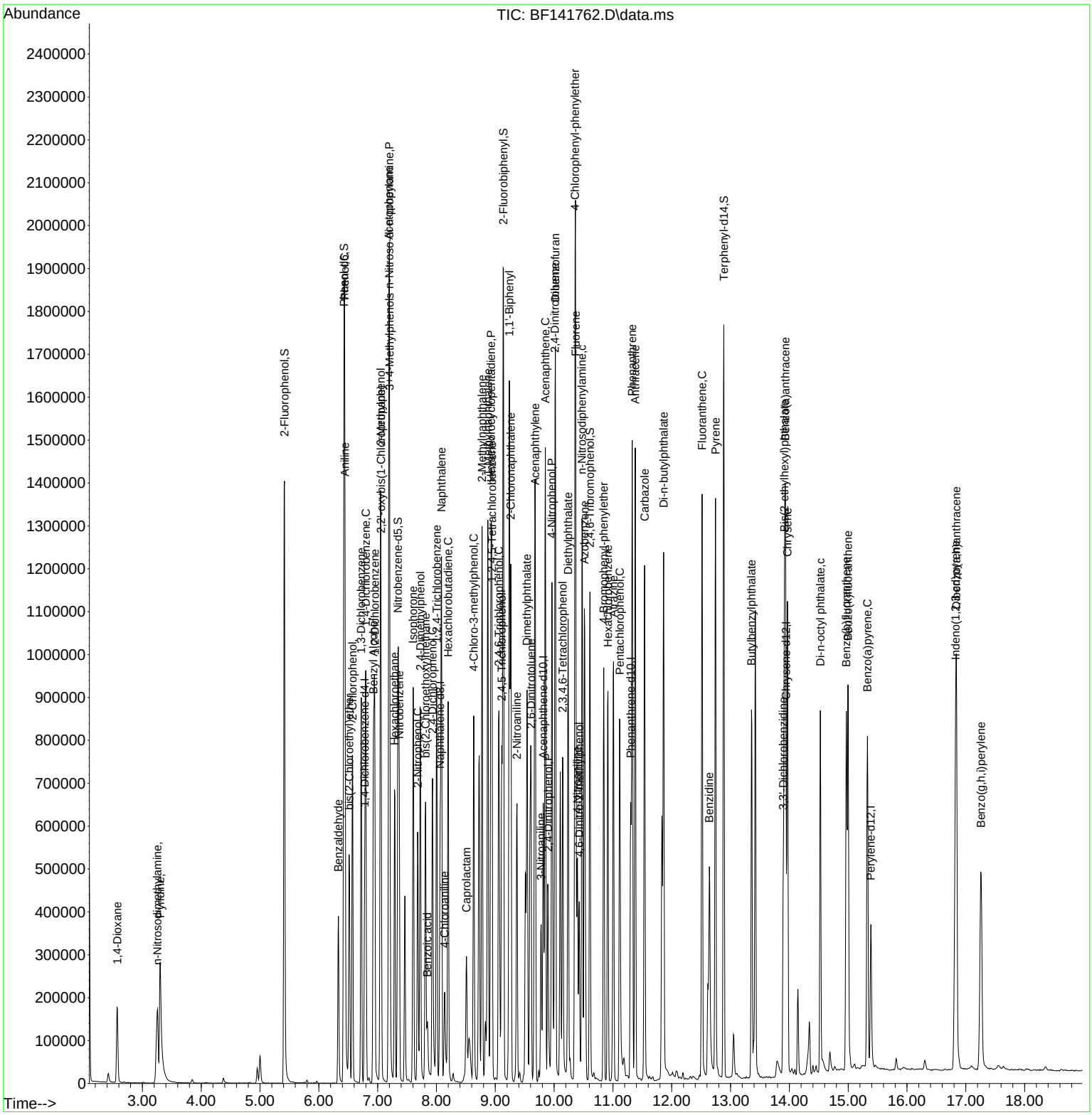
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141762.D
Acq On : 25 Feb 2025 14:07
Operator : RC/JU
Sample : Q1421-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

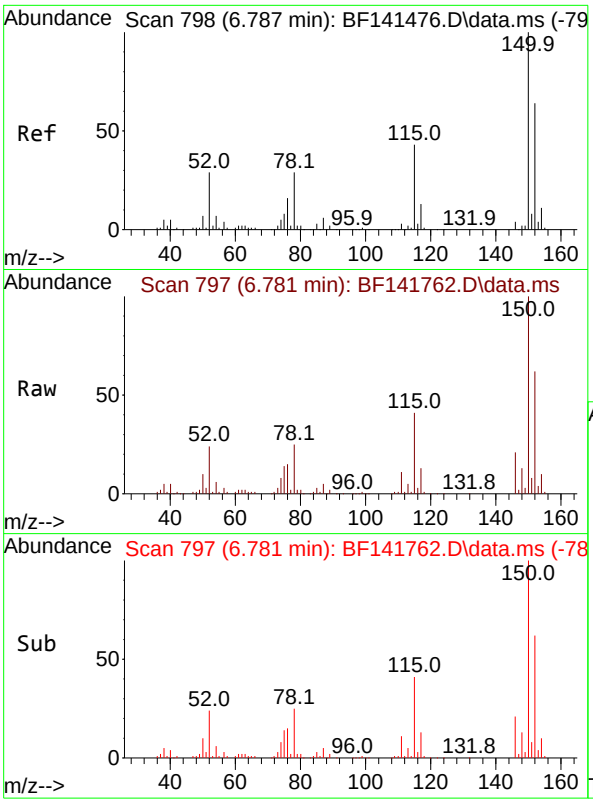
Quant Time: Feb 26 00:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

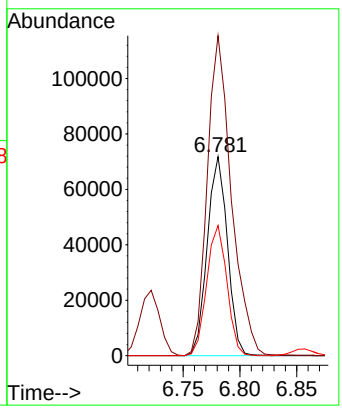




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:152 Resp: 8879

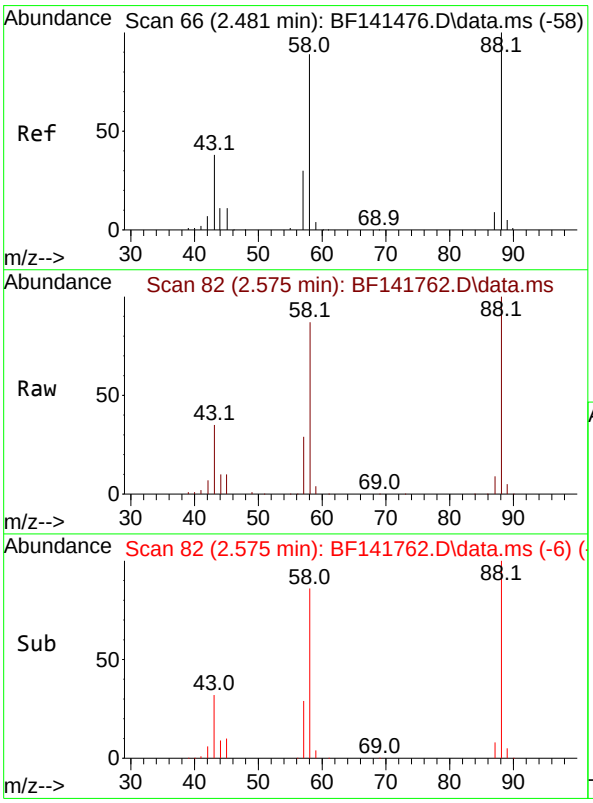
Ion	Ratio	Lower	Upper
152	100		
150	160.8	125.0	187.4
115	65.4	53.6	80.4



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

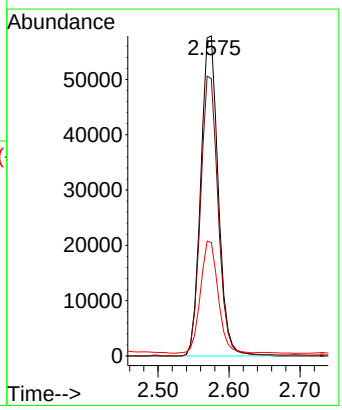
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

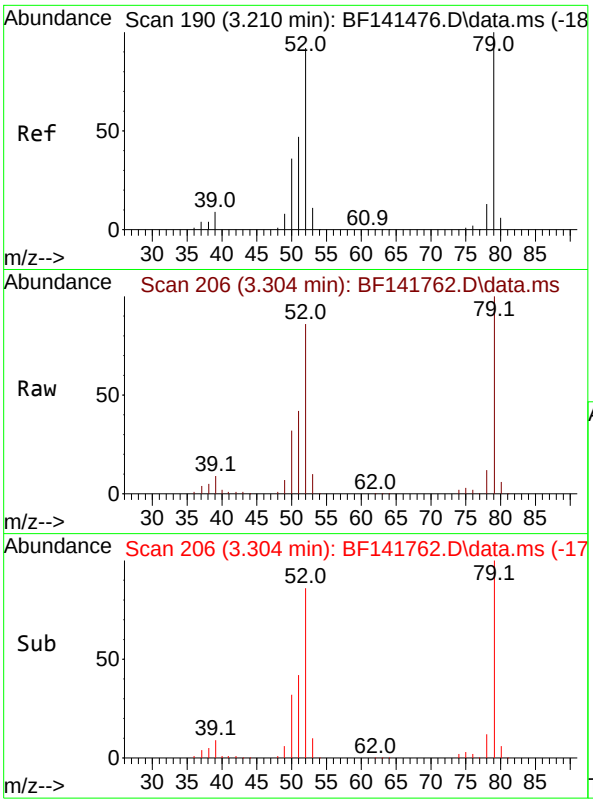


#2
1,4-Dioxane
Concen: 43.465 ng
RT: 2.575 min Scan# 82
Delta R.T. 0.094 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 88 Resp: 99078

Ion	Ratio	Lower	Upper
88	100		
58	88.6	71.1	106.7
43	35.4	30.6	46.0





#3
Pyridine
Concen: 42.374 ng
RT: 3.304 min Scan# 2
Delta R.T. 0.088 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

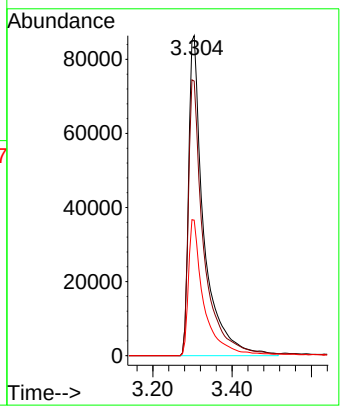
Tgt Ion: 79 Resp: 22985

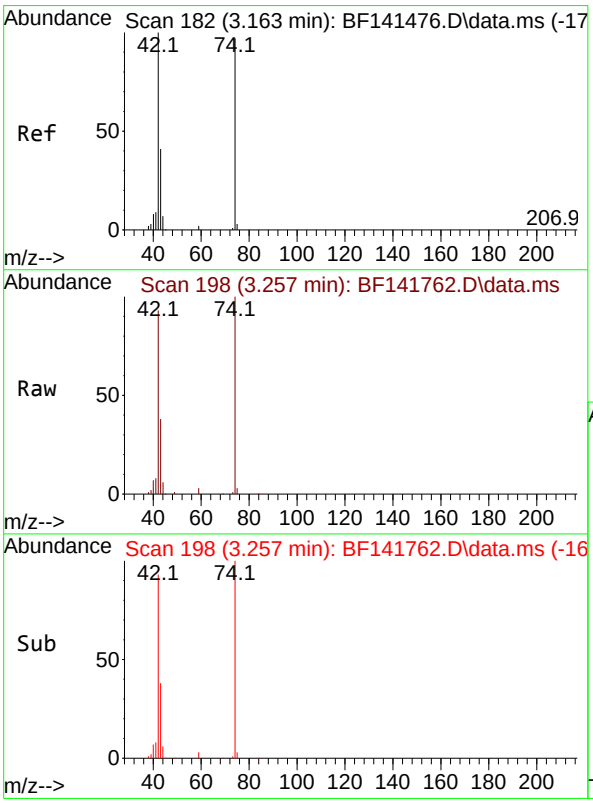
Ion	Ratio	Lower	Upper
79	100		
52	85.8	73.7	110.5
51	42.4	37.5	56.3

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

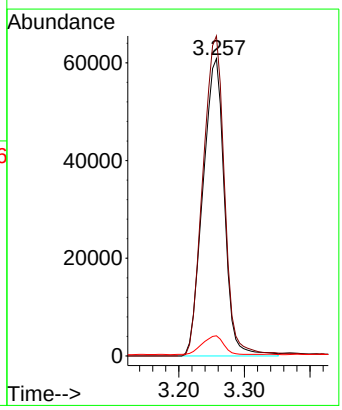


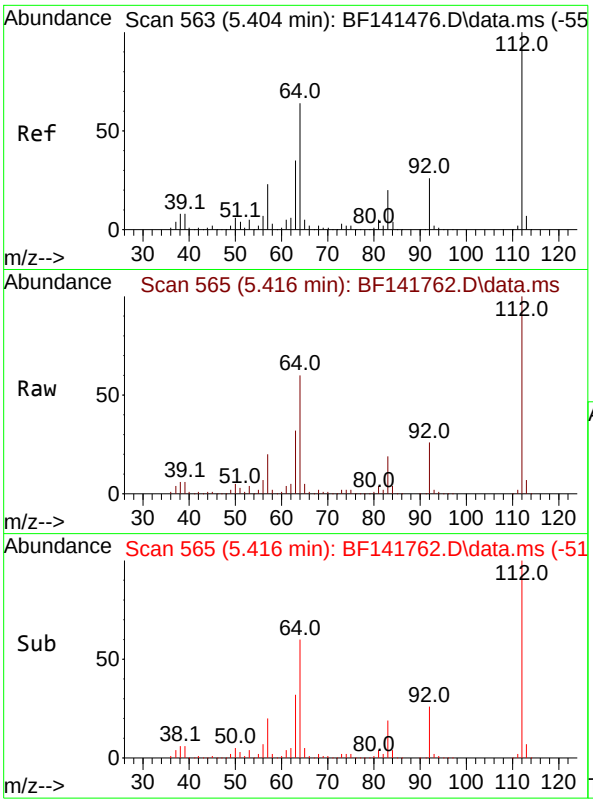


#4
n-Nitrosodimethylamine
Concen: 38.611 ng
RT: 3.257 min Scan# 198
Delta R.T. 0.071 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 42 Resp: 138682

Ion	Ratio	Lower	Upper
42	100		
74	107.7	78.0	117.0
44	6.8	5.4	8.2

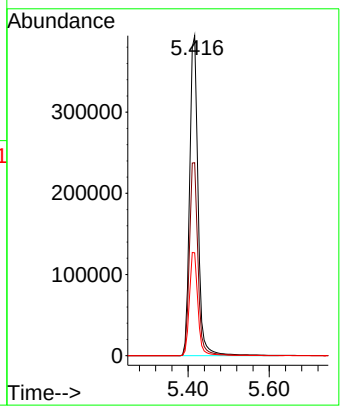




#5
2-Fluorophenol
Concen: 100.075 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:112 Resp: 56679

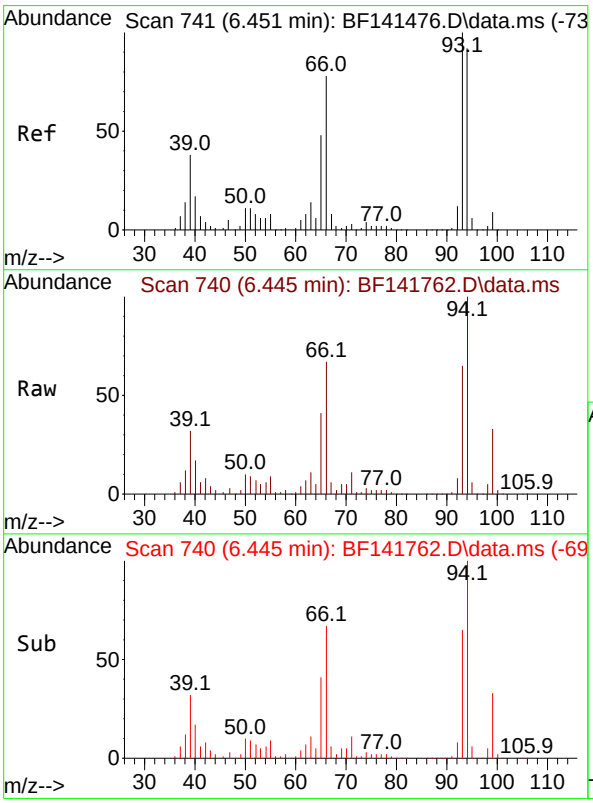
Ion	Ratio	Lower	Upper
112	100		
64	60.3	51.1	76.7
63	32.1	28.4	42.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

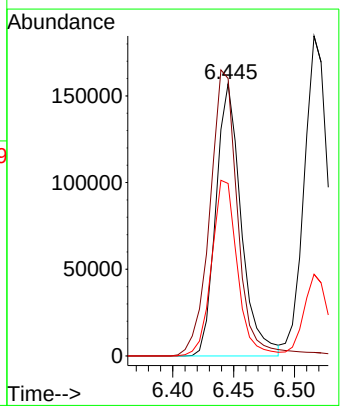
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

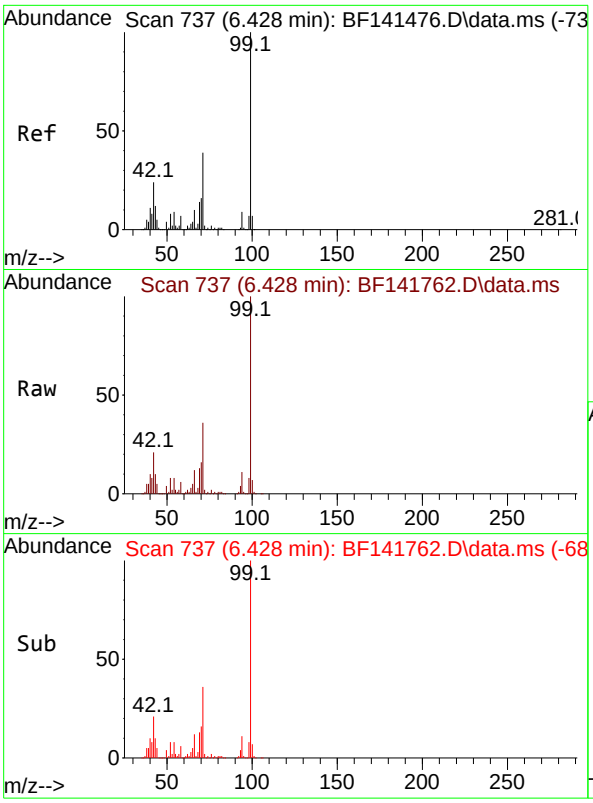


#6
Aniline
Concen: 33.780 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 93 Resp: 226829

Ion	Ratio	Lower	Upper
93	100		
66	101.8	62.6	94.0#
65	63.3	38.3	57.5#

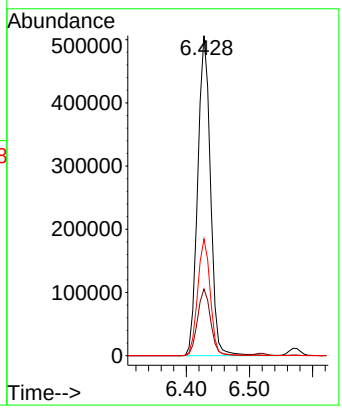




#7
Phenol-d6
Concen: 98.837 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 99 Resp: 70751

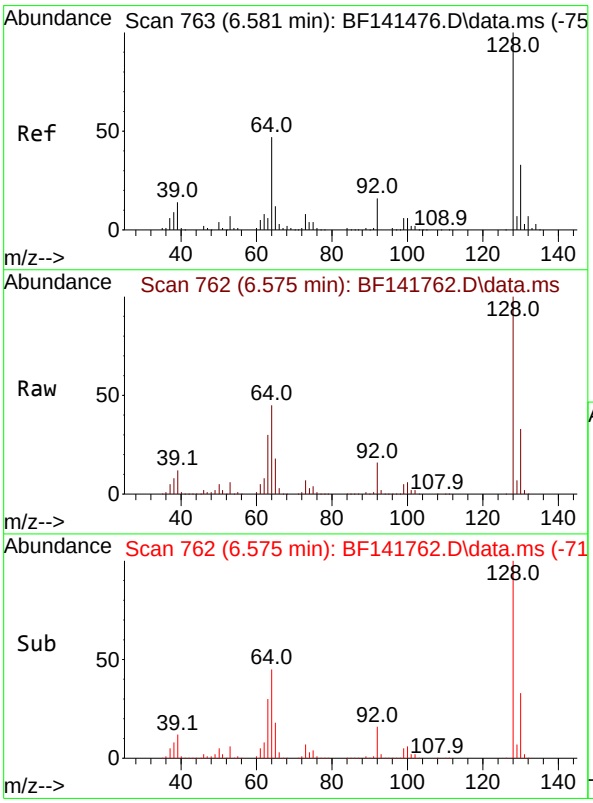
Ion	Ratio	Lower	Upper
99	100		
42	20.8	19.1	28.7
71	36.5	31.1	46.7



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

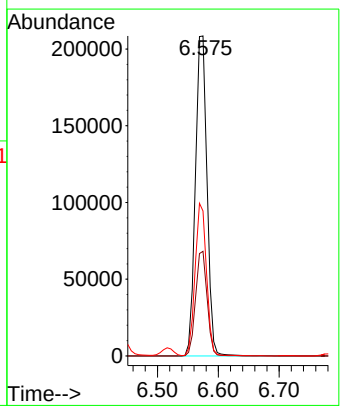
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

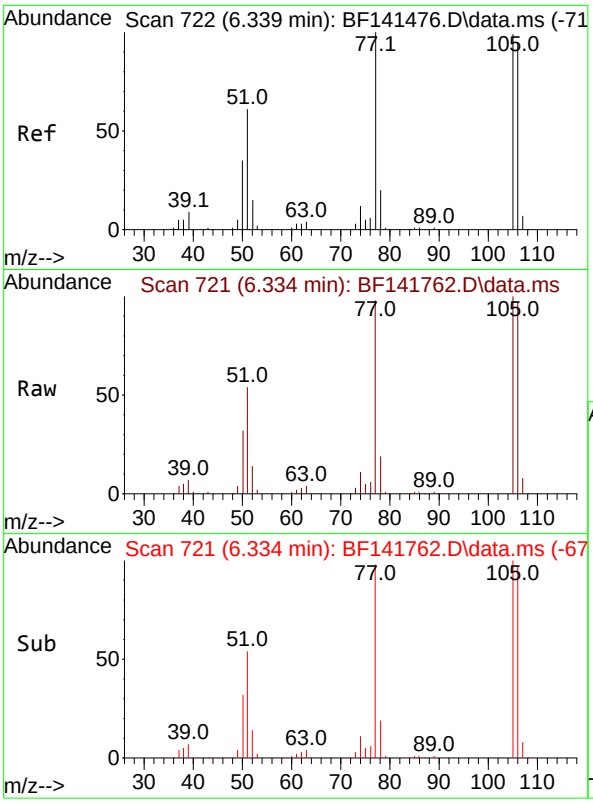


#8
2-Chlorophenol
Concen: 45.211 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:128 Resp: 276685

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.7	52.7
64	45.3	28.3	68.3

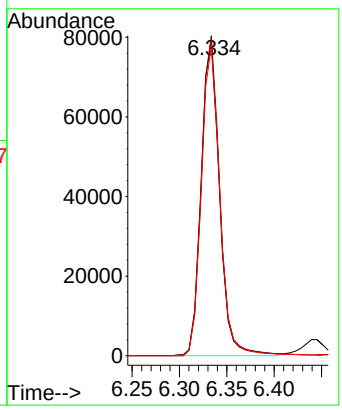




#9
Benzaldehyde
Concen: 27.998 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 77 Resp: 10650

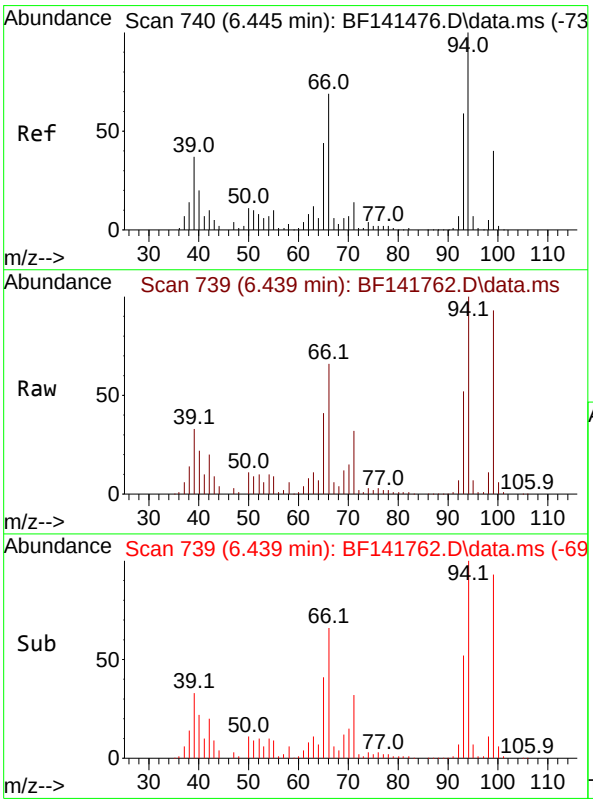
Ion	Ratio	Lower	Upper
77	100		
105	102.0	79.4	119.4
106	98.7	75.1	115.1



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

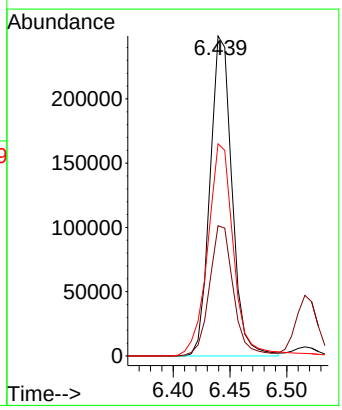
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

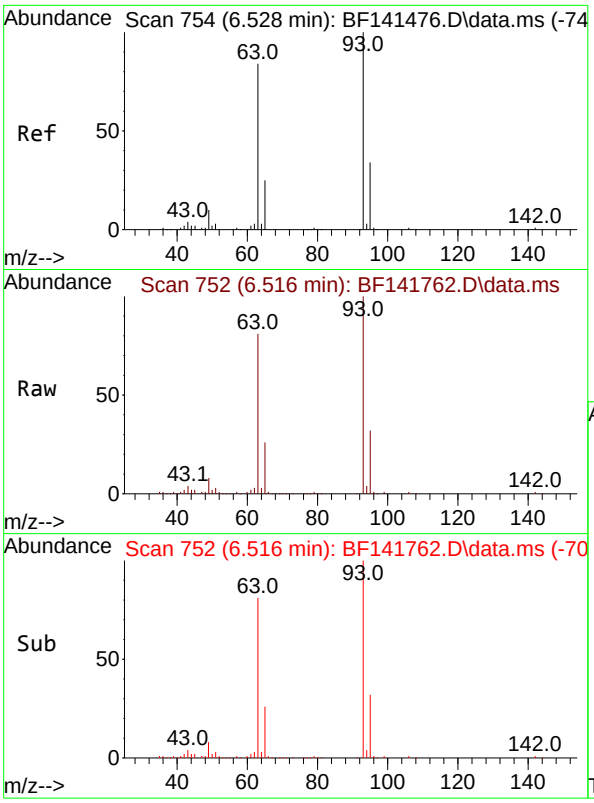


#10
Phenol
Concen: 45.023 ng
RT: 6.439 min Scan# 739
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 94 Resp: 335449

Ion	Ratio	Lower	Upper
94	100		
65	40.7	23.7	63.7
66	66.3	49.3	89.3

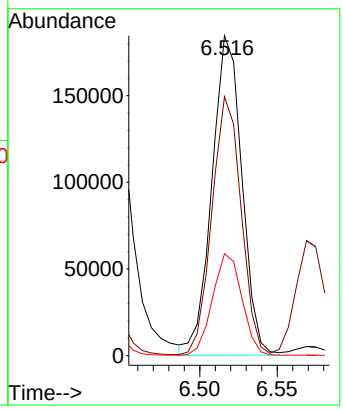




#11
bis(2-Chloroethyl)ether
Concen: 44.364 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 93 Resp: 24827

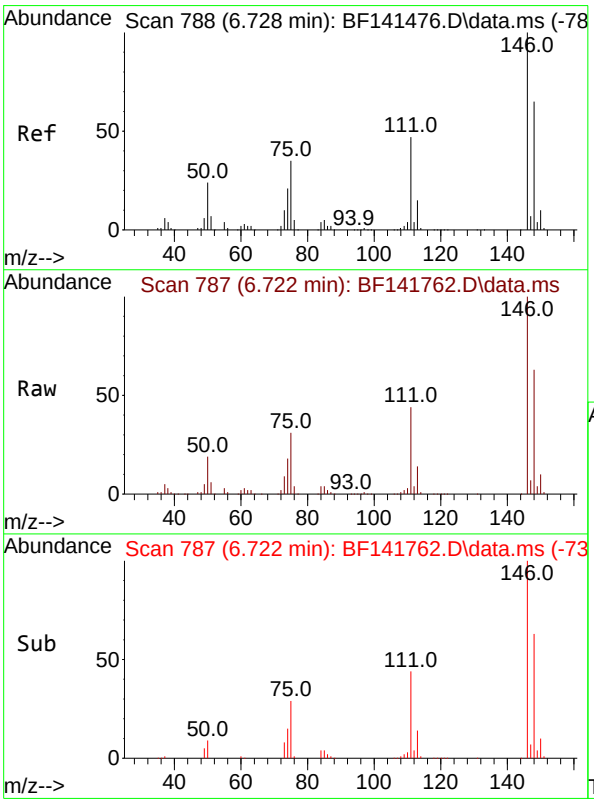
Ion	Ratio	Lower	Upper
93	100		
63	80.9	62.0	102.0
95	31.9	12.6	52.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

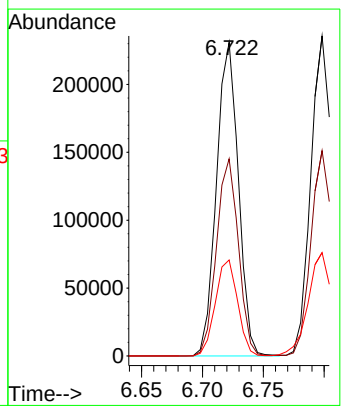
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

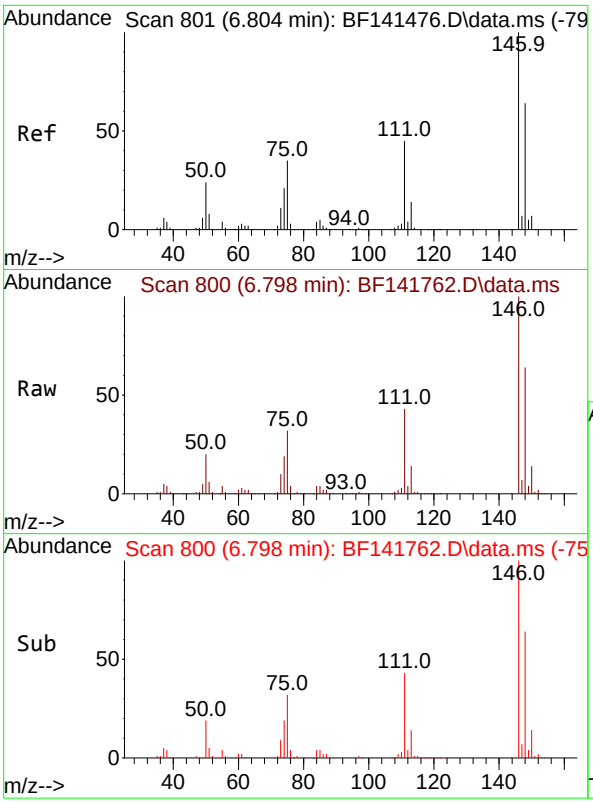


#12
1,3-Dichlorobenzene
Concen: 44.759 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:146 Resp: 289182

Ion	Ratio	Lower	Upper
146	100		
148	62.8	51.9	77.9
75	30.6	28.2	42.2

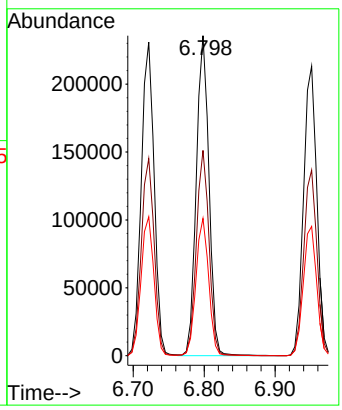




#13
1,4-Dichlorobenzene
Concen: 44.424 ng
RT: 6.798 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:146 Resp: 29324

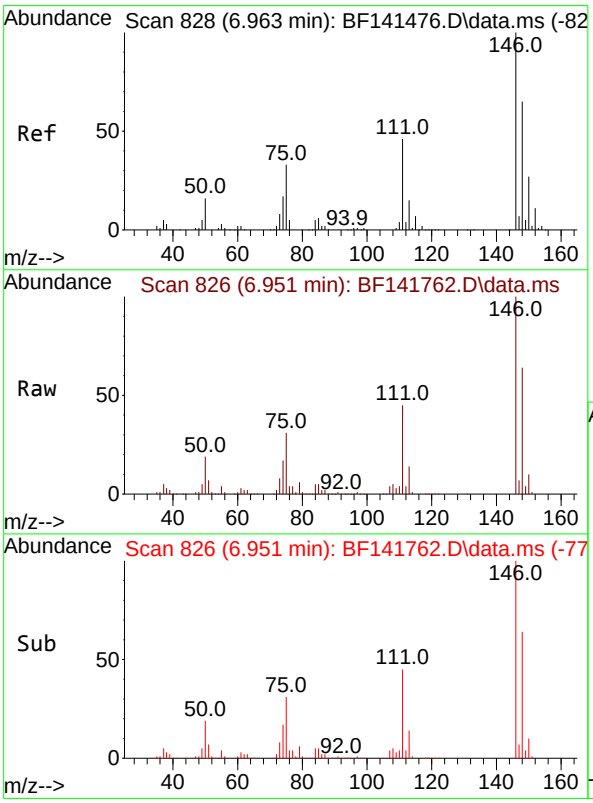
Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.9	76.3
111	42.9	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

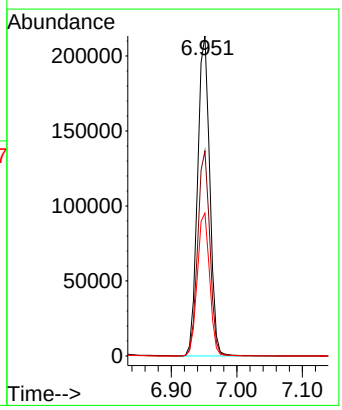
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

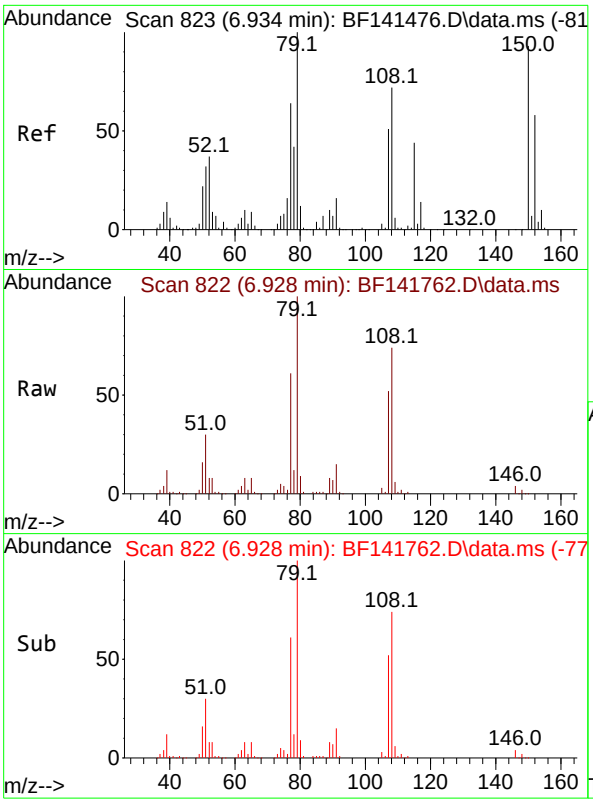


#14
1,2-Dichlorobenzene
Concen: 45.248 ng
RT: 6.951 min Scan# 826
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:146 Resp: 277220

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.8	77.6
111	44.6	37.0	55.4





#15
Benzyl Alcohol
Concen: 42.993 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

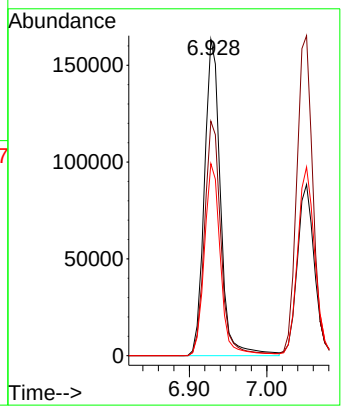
Tgt Ion: 79 Resp: 23600

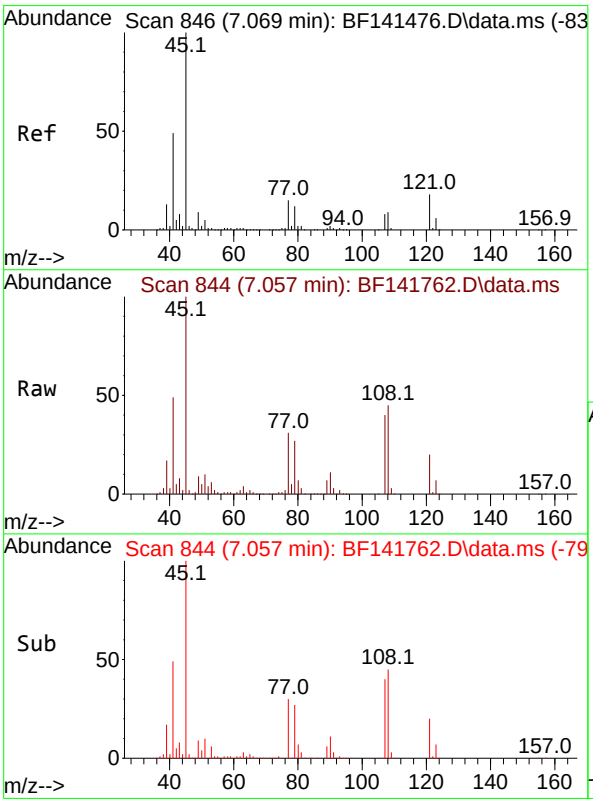
Ion	Ratio	Lower	Upper
79	100		
108	74.1	57.4	86.2
77	60.8	50.9	76.3

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

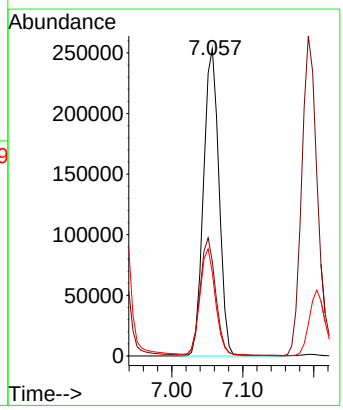


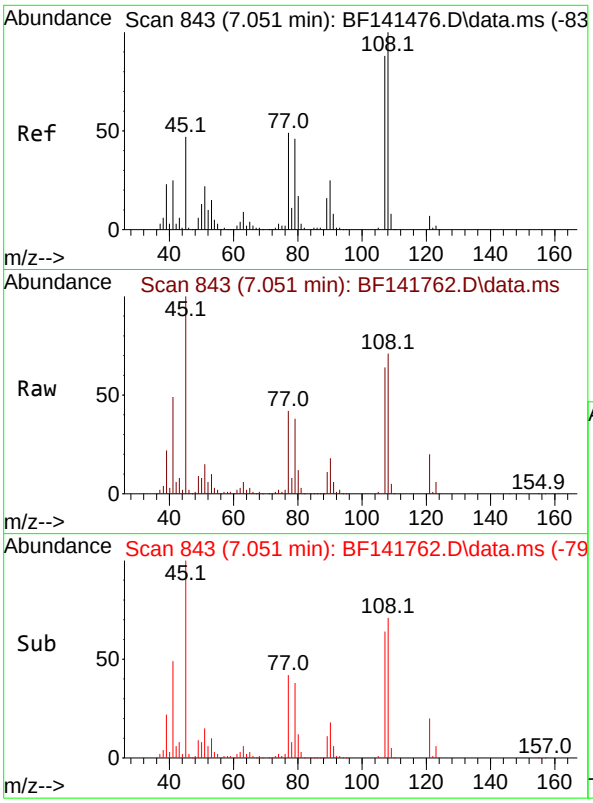


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.037 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 45 Resp: 383534

Ion	Ratio	Lower	Upper
45	100		
77	30.8	0.0	35.8
79	27.1	0.0	32.7

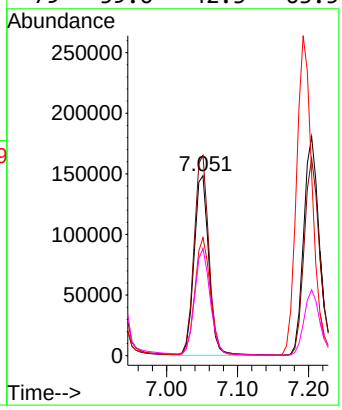




#17
2-Methylphenol
Concen: 44.722 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:107 Resp: 21418

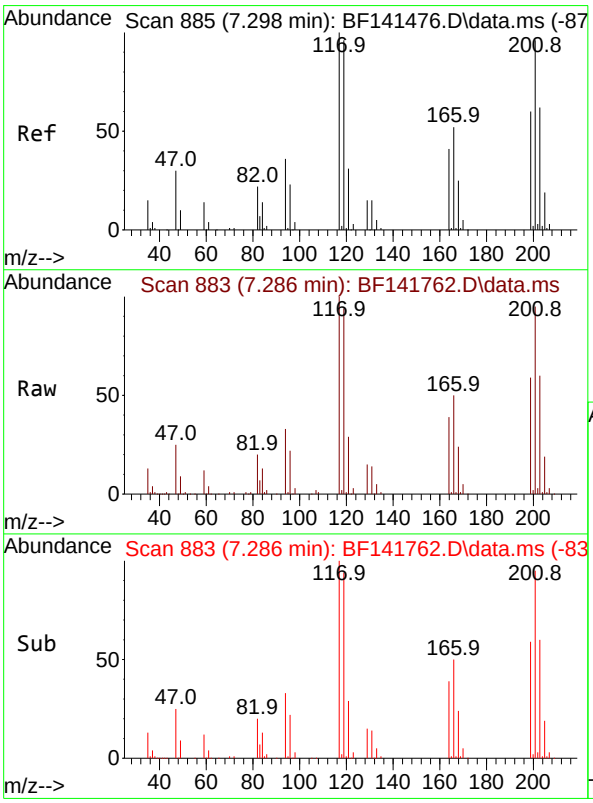
Ion	Ratio	Lower	Upper
107	100		
108	111.3	90.6	136.0
77	65.6	44.4	66.6
79	59.6	42.3	63.5



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

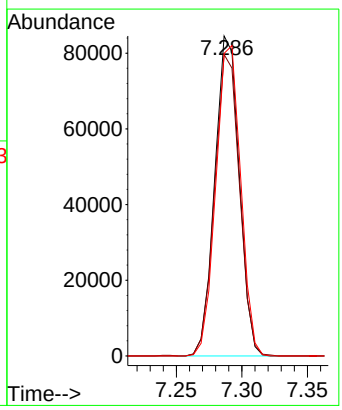
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

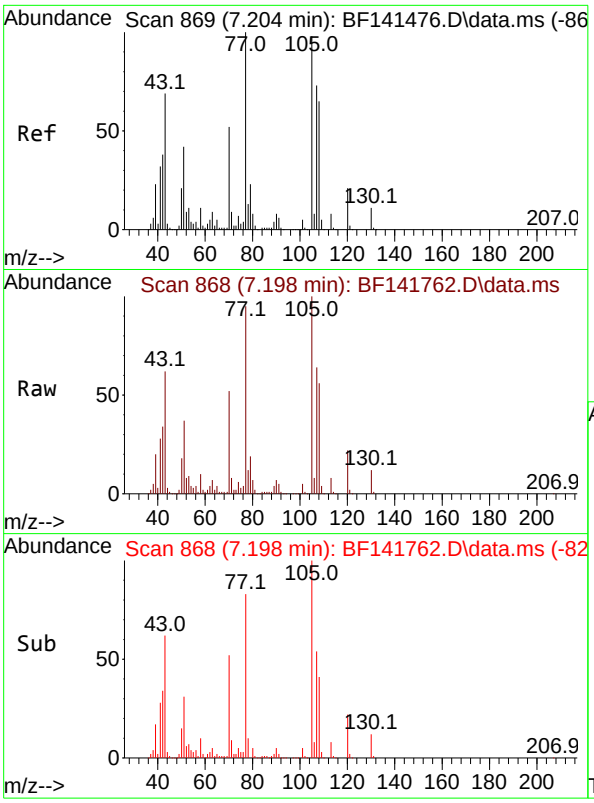


#18
Hexachloroethane
Concen: 44.778 ng
RT: 7.286 min Scan# 883
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:117 Resp: 109393

Ion	Ratio	Lower	Upper
117	100		
119	94.2	76.5	114.7
201	94.6	76.7	115.1

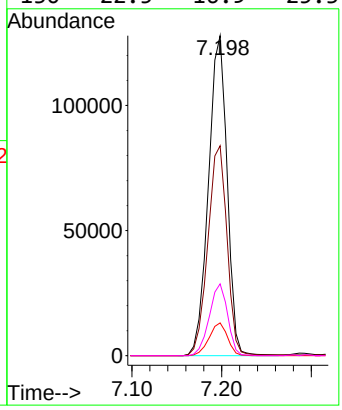




#19
n-Nitroso-di-n-propylamine
Concen: 43.171 ng
RT: 7.198 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 70 Resp: 18485

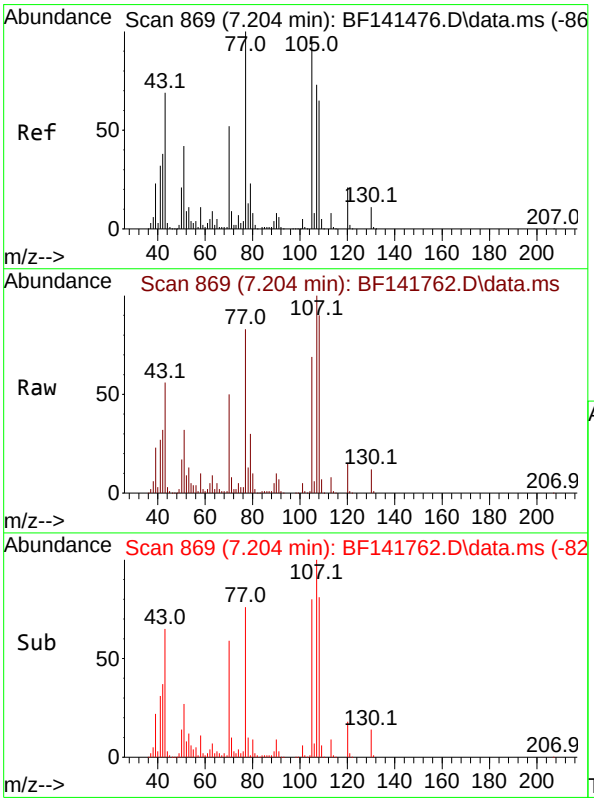
Ion	Ratio	Lower	Upper
70	100		
42	65.6	57.4	86.2
101	10.2	8.0	12.0
130	22.5	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

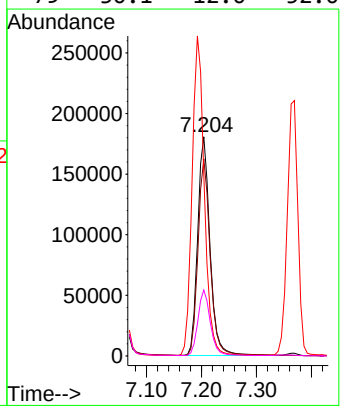
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

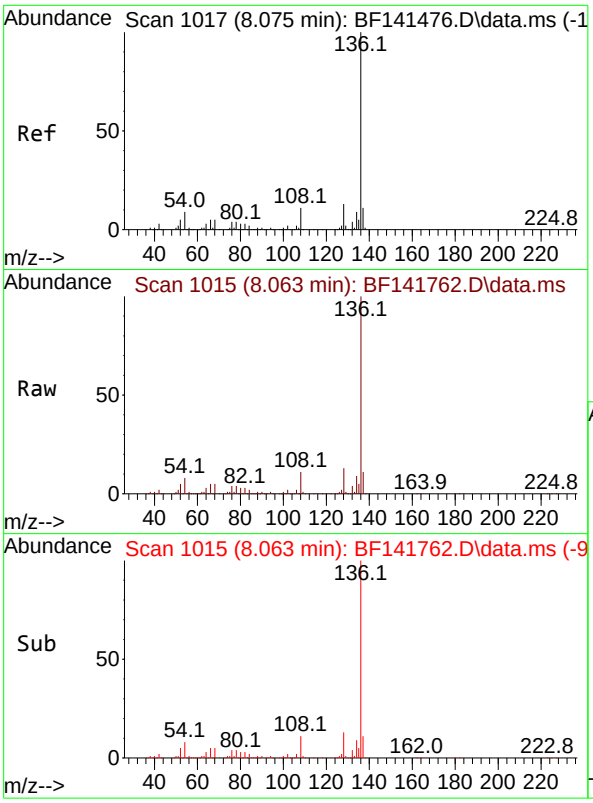


#20
3+4-Methylphenols
Concen: 46.391 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:107 Resp: 282352

Ion	Ratio	Lower	Upper
107	100		
108	89.9	68.5	108.5
77	82.7	116.5	156.5#
79	30.1	12.0	52.0

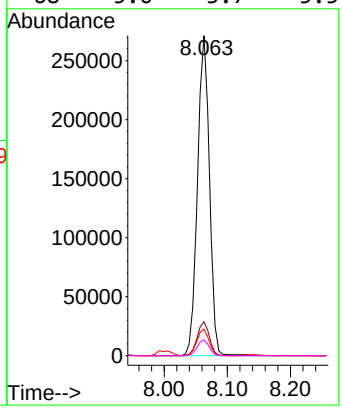




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:136 Resp: 35604

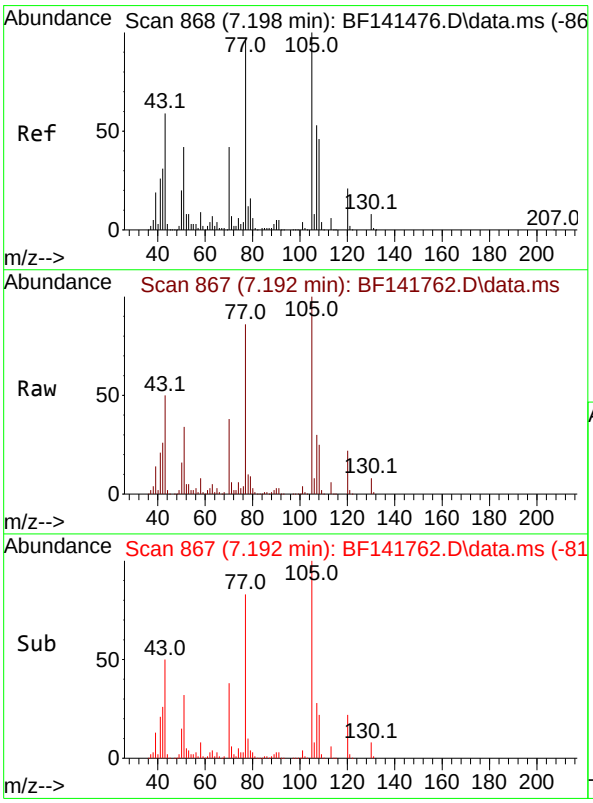
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	8.3	7.2	10.8
68	5.0	3.7	5.5



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

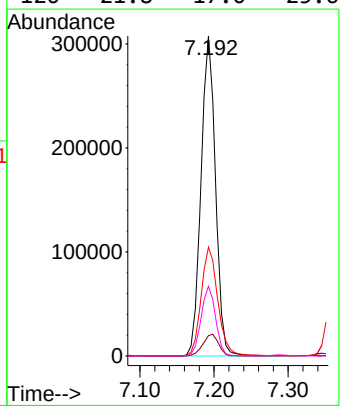
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

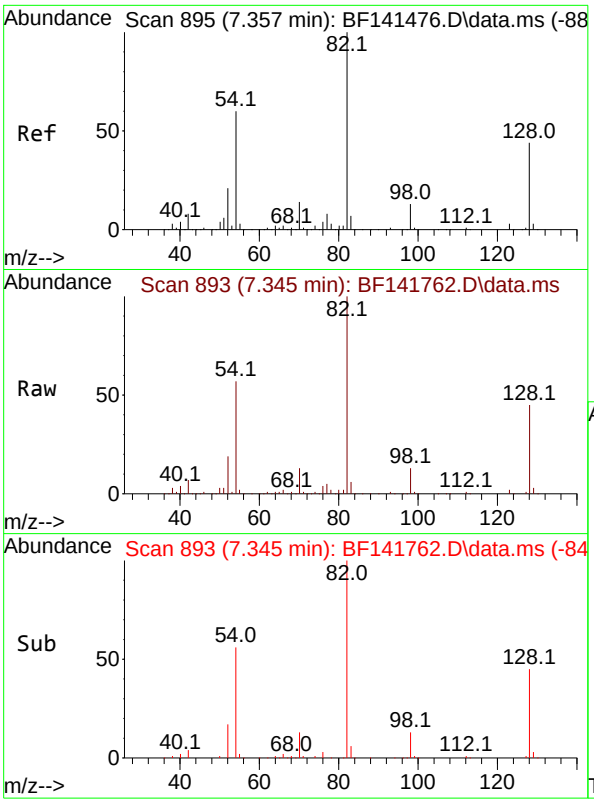


#22
Acetophenone
Concen: 47.093 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:105 Resp: 417099

Ion	Ratio	Lower	Upper
105	100		
71	6.3	5.7	8.5
51	34.0	33.7	50.5
120	21.8	17.0	25.6

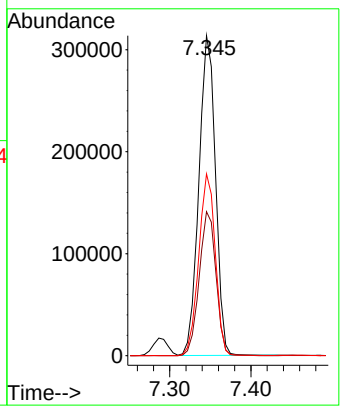




#23
Nitrobenzene-d5
Concen: 65.287 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 82 Resp: 44567

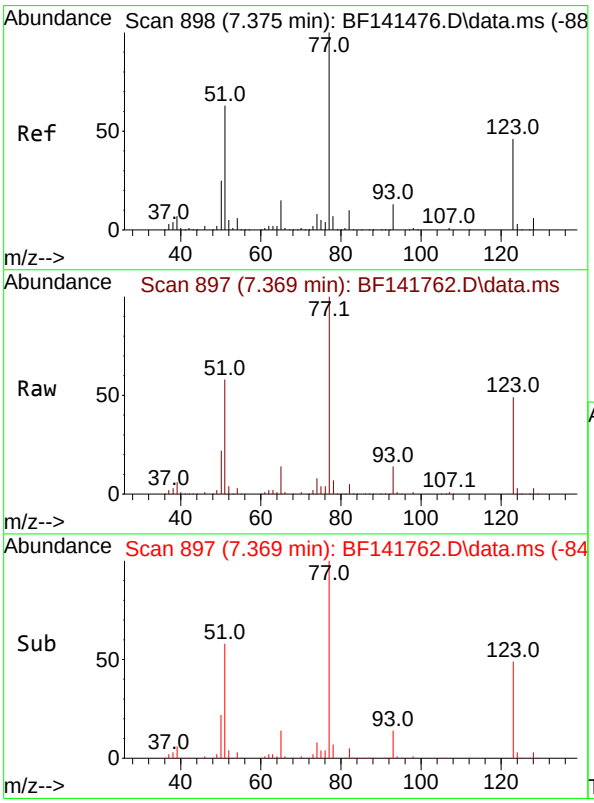
Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.8	52.2
54	56.8	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

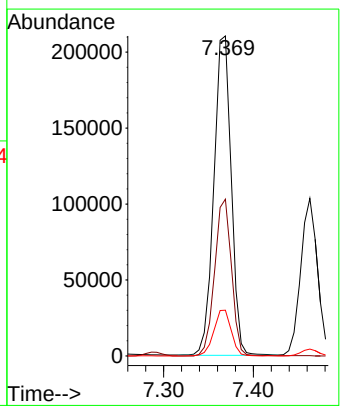
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

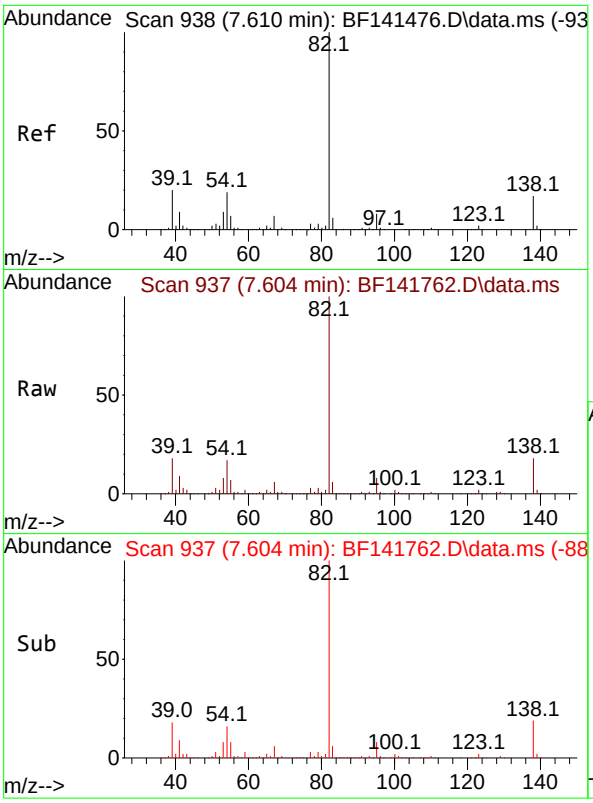


#24
Nitrobenzene
Concen: 42.461 ng
RT: 7.369 min Scan# 897
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 77 Resp: 282638

Ion	Ratio	Lower	Upper
77	100		
123	49.0	36.9	55.3
65	14.3	11.9	17.9

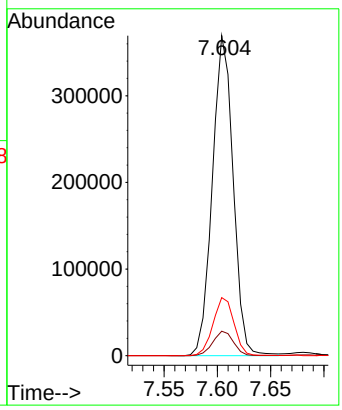




#25
Isophorone
Concen: 46.118 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 82 Resp: 50196

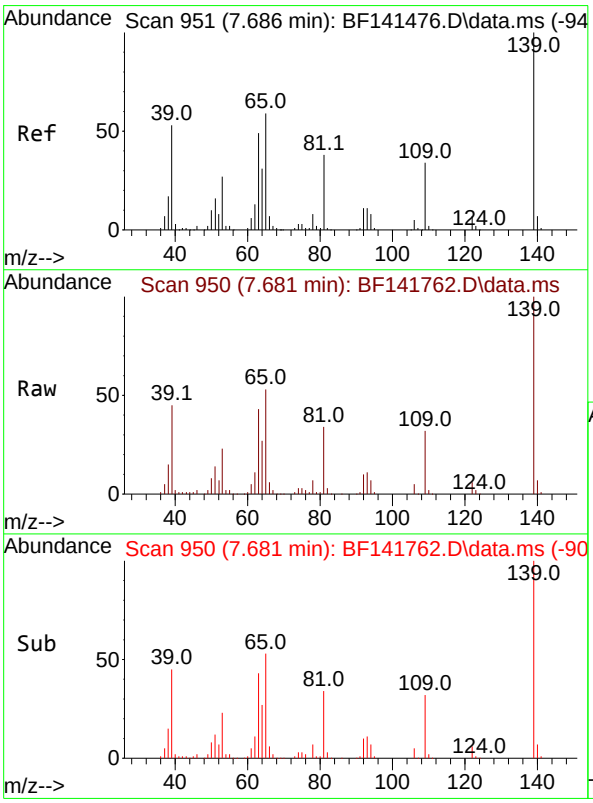
Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.4	9.6
138	18.1	13.9	20.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

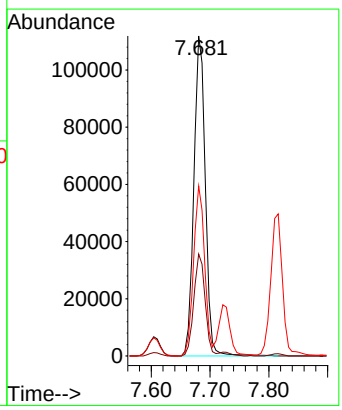
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

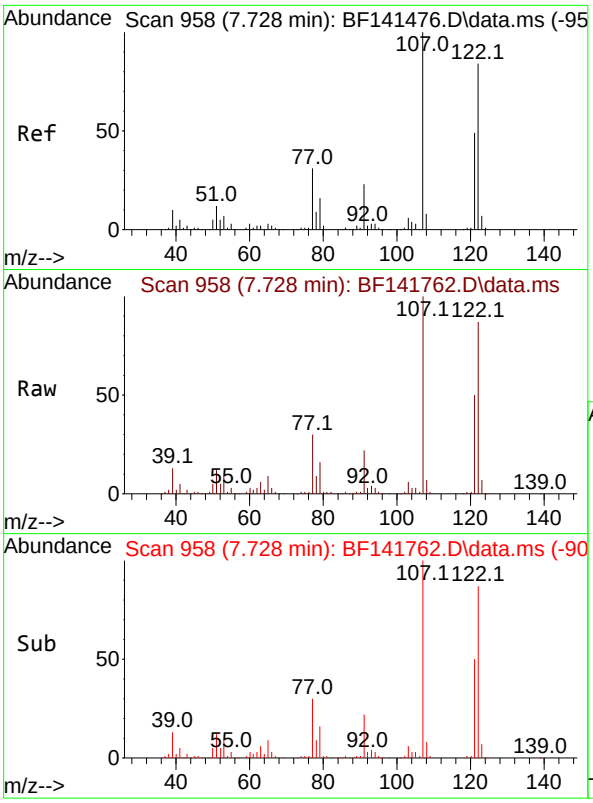


#26
2-Nitrophenol
Concen: 45.723 ng
RT: 7.681 min Scan# 950
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:139 Resp: 151422

Ion	Ratio	Lower	Upper
139	100		
109	31.9	27.0	40.6
65	53.1	47.1	70.7

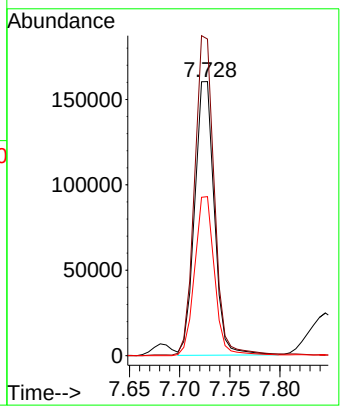




#27
2,4-Dimethylphenol
Concen: 56.646 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:122 Resp: 21915

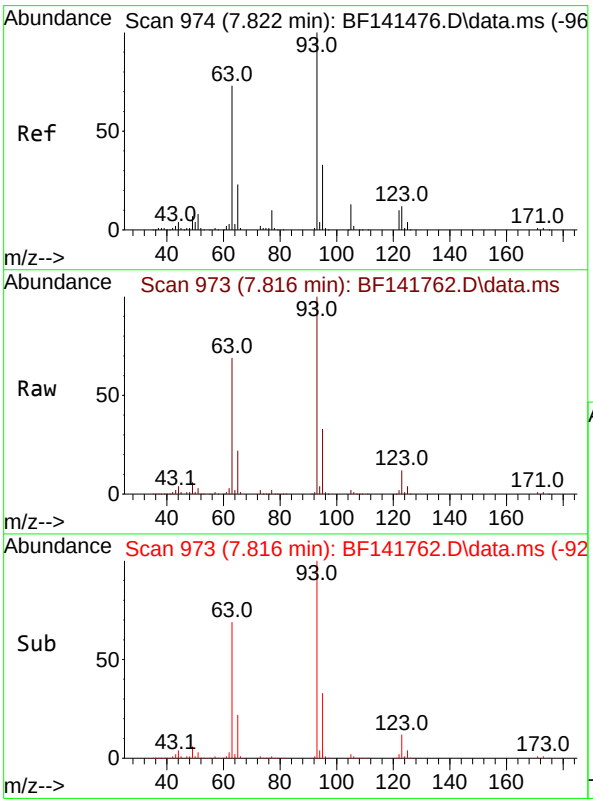
Ion	Ratio	Lower	Upper
122	100		
107	115.5	94.3	141.5
121	58.0	46.0	69.0



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

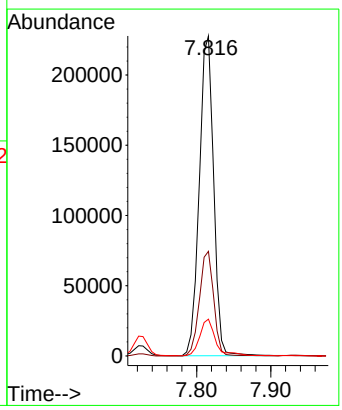
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

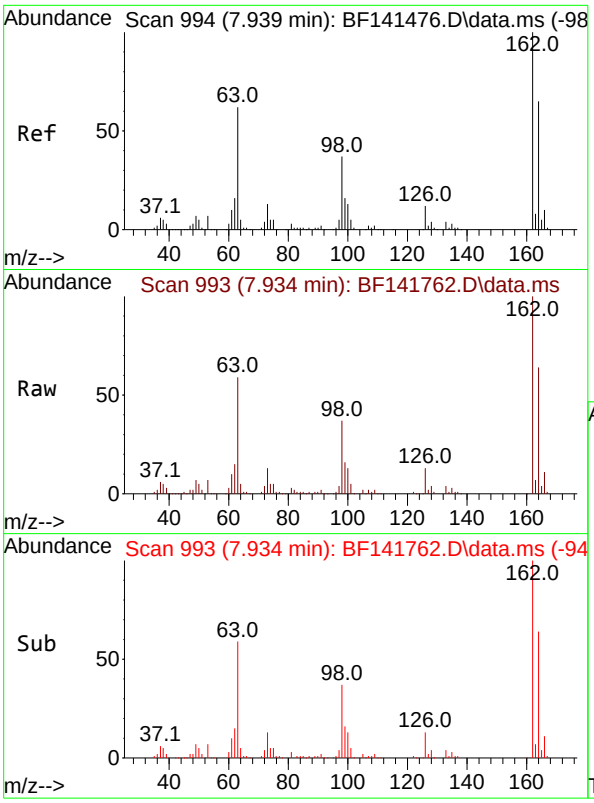


#28
bis(2-Chloroethoxy)methane
Concen: 43.979 ng
RT: 7.816 min Scan# 973
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 93 Resp: 306733

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.1	39.1
123	11.5	9.5	14.3

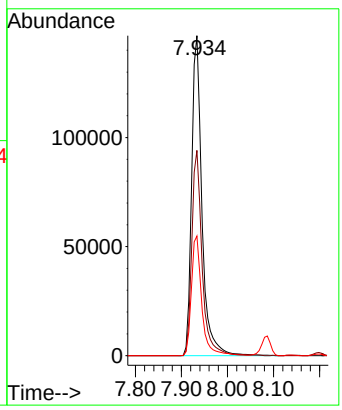




#29
2,4-Dichlorophenol
Concen: 43.575 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:162 Resp: 22777

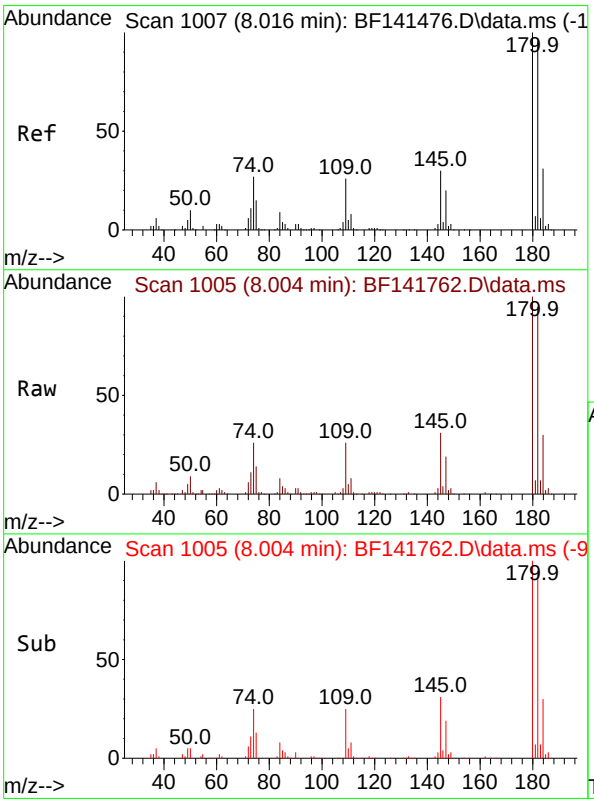
Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.6	84.6
98	37.4	17.2	57.2



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

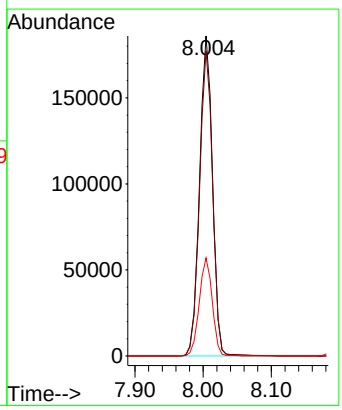
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

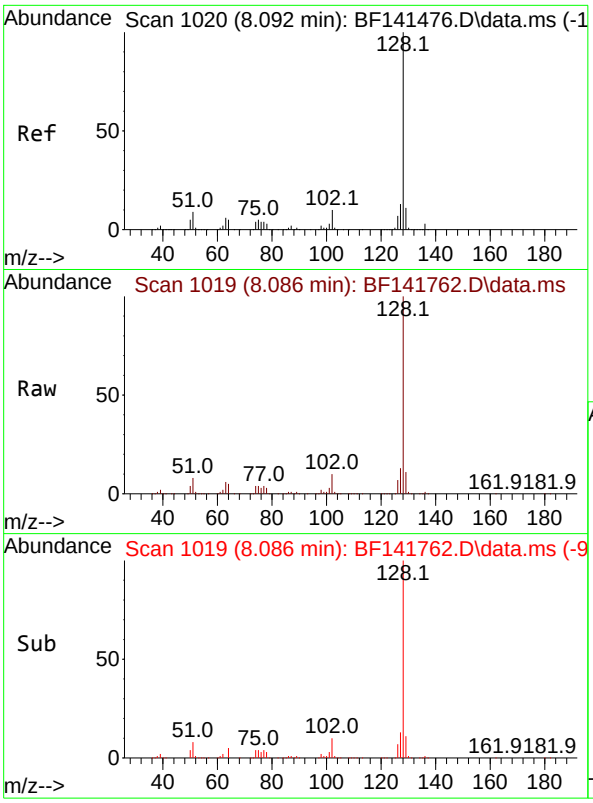


#30
1,2,4-Trichlorobenzene
Concen: 43.178 ng
RT: 8.004 min Scan# 1005
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:180 Resp: 245784

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.8	115.2
145	30.6	24.2	36.4





#31
Naphthalene
Concen: 42.608 ng
RT: 8.086 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

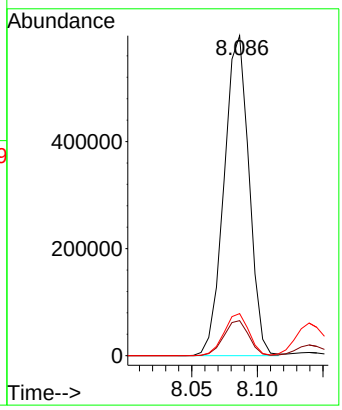
Tgt Ion:128 Resp: 78968

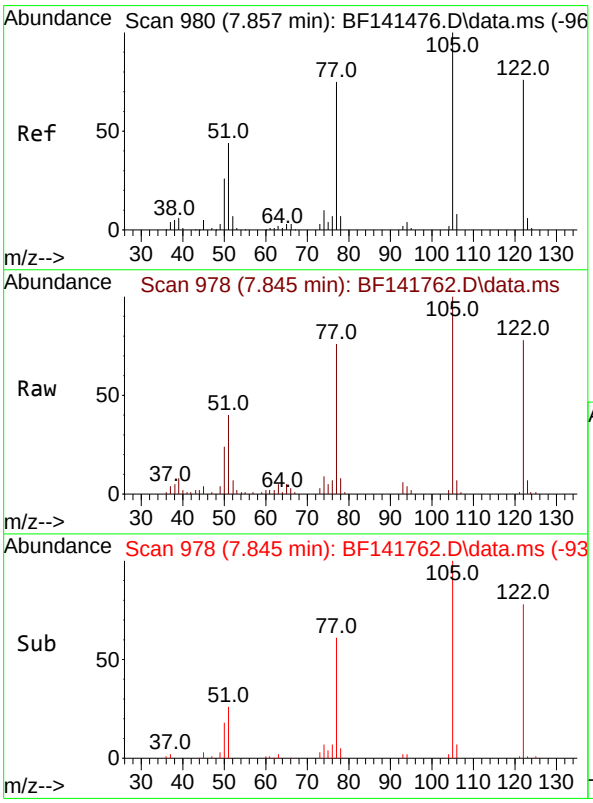
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.2	10.7	16.1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

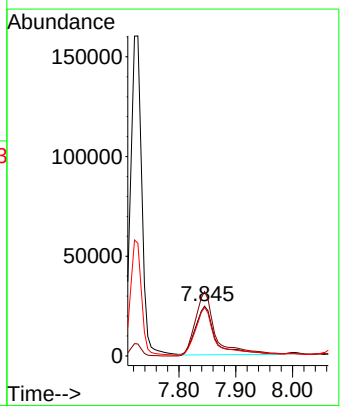


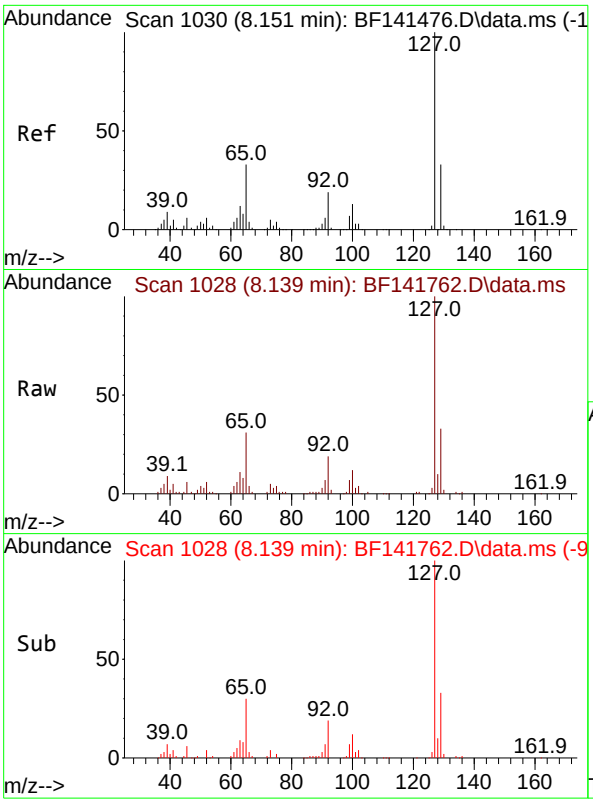


#32
Benzoic acid
Concen: 14.791 ng
RT: 7.845 min Scan# 978
Delta R.T. -0.047 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:122 Resp: 59439

Ion	Ratio	Lower	Upper
122	100		
105	129.0	106.5	146.5
77	97.7	76.3	116.3

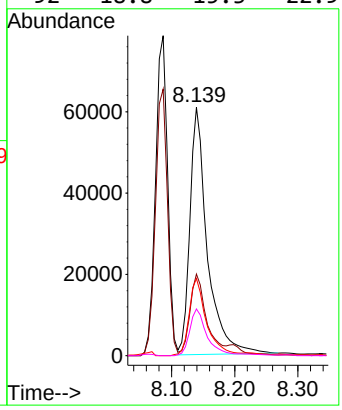




#33
4-Chloroaniline
Concen: 17.961 ng
RT: 8.139 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:127 Resp: 11622

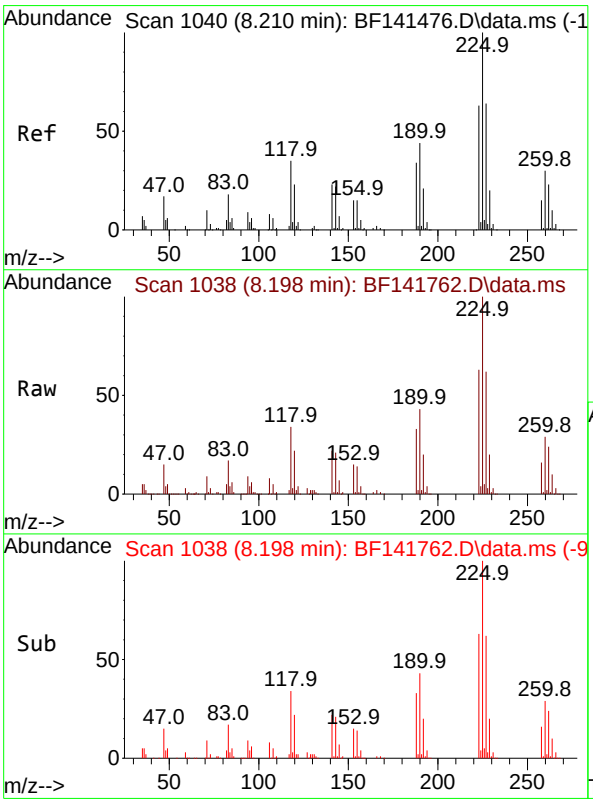
Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.5	39.7
65	31.0	26.4	39.6
92	18.8	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

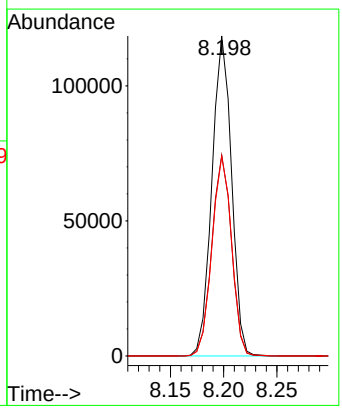
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

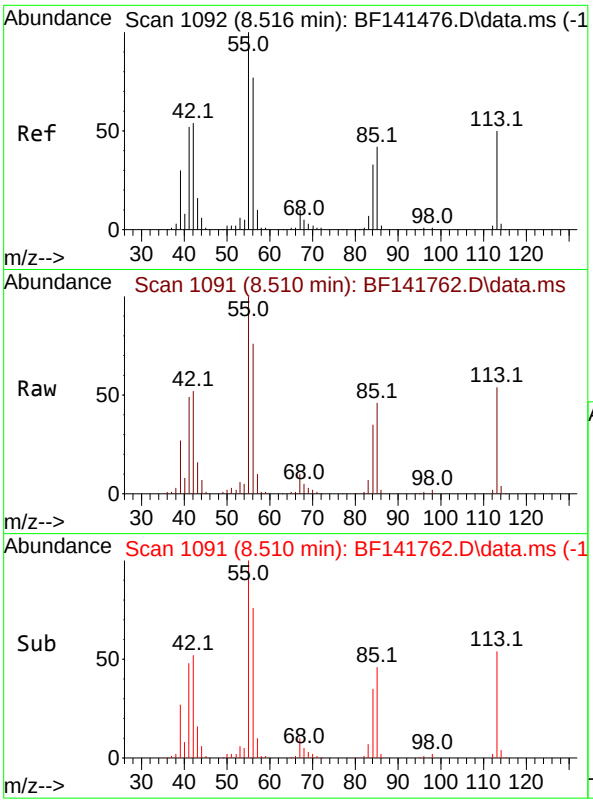


#34
Hexachlorobutadiene
Concen: 44.209 ng
RT: 8.198 min Scan# 1038
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:225 Resp: 151076

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.1	75.1
227	62.3	51.0	76.6

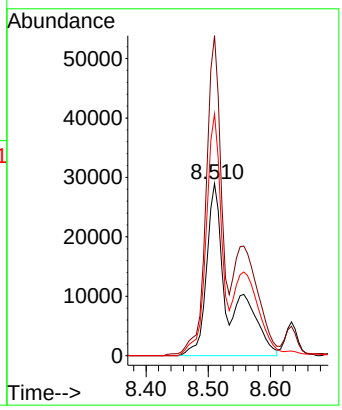




#35
Caprolactam
Concen: 47.428 ng m
RT: 8.510 min Scan# 1
Delta R.T. -0.035 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:113 Resp: 7548

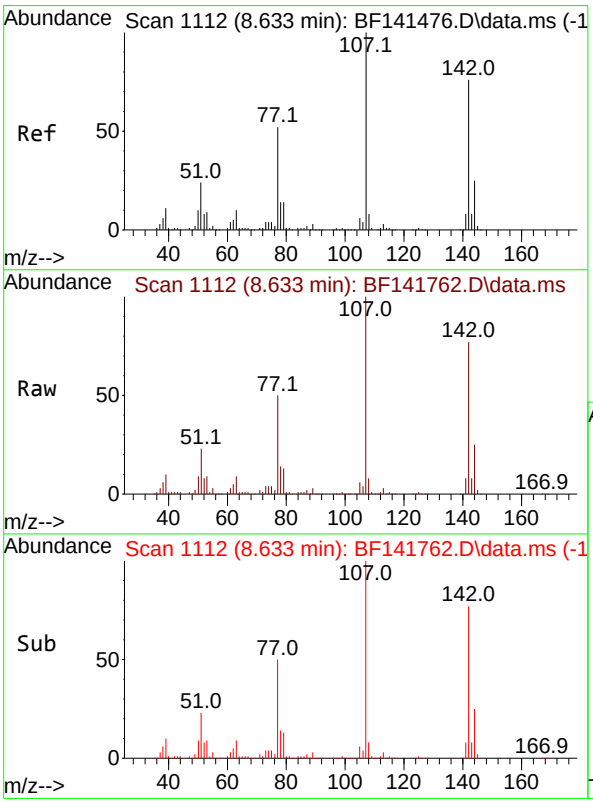
Ion	Ratio	Lower	Upper
113	100		
55	185.8	180.8	220.8
56	140.4	133.6	173.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

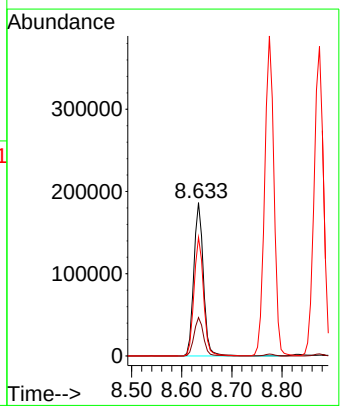
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

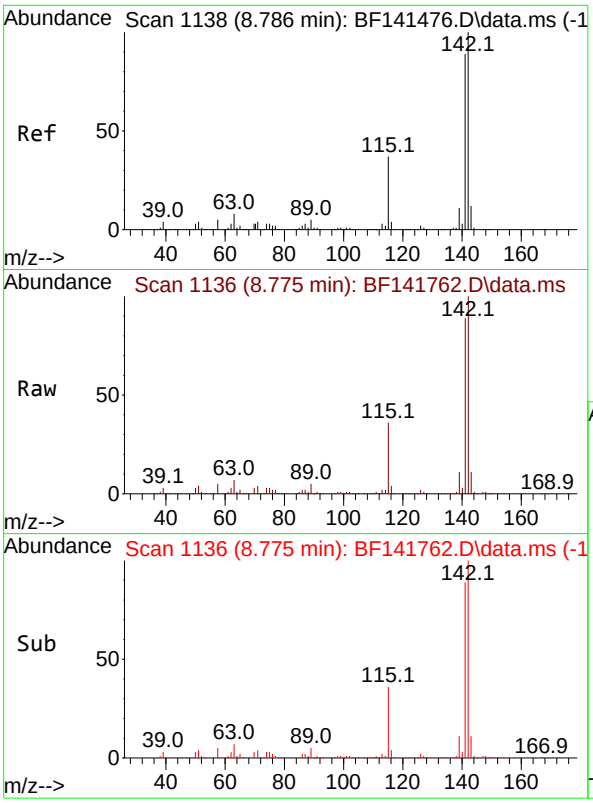


#36
4-Chloro-3-methylphenol
Concen: 42.743 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:107 Resp: 247497

Ion	Ratio	Lower	Upper
107	100		
144	25.0	19.7	29.5
142	77.4	60.8	91.2

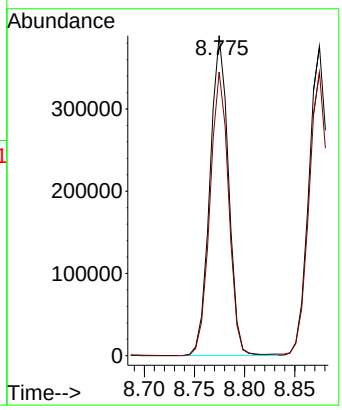




#37
2-Methylnaphthalene
Concen: 41.562 ng
RT: 8.775 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:142 Resp: 50125

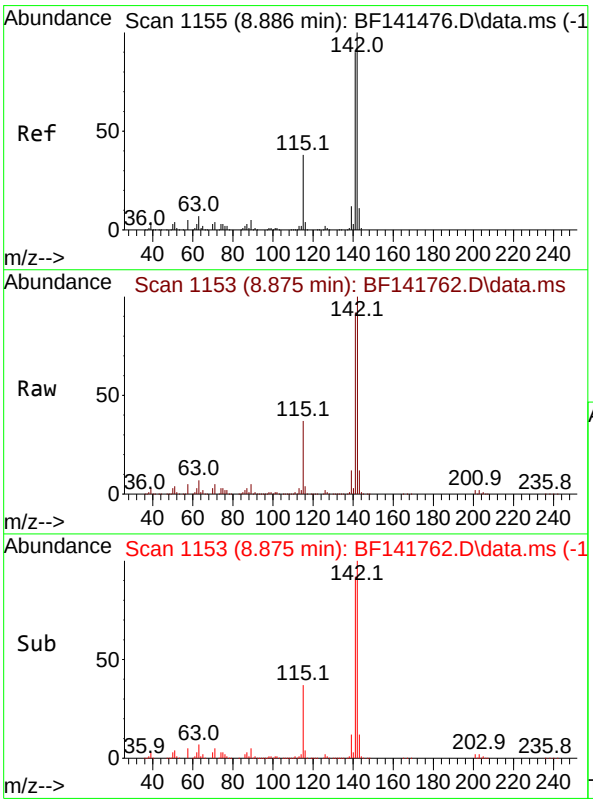
Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.2	106.8



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

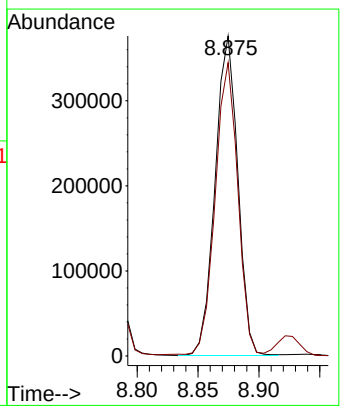
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

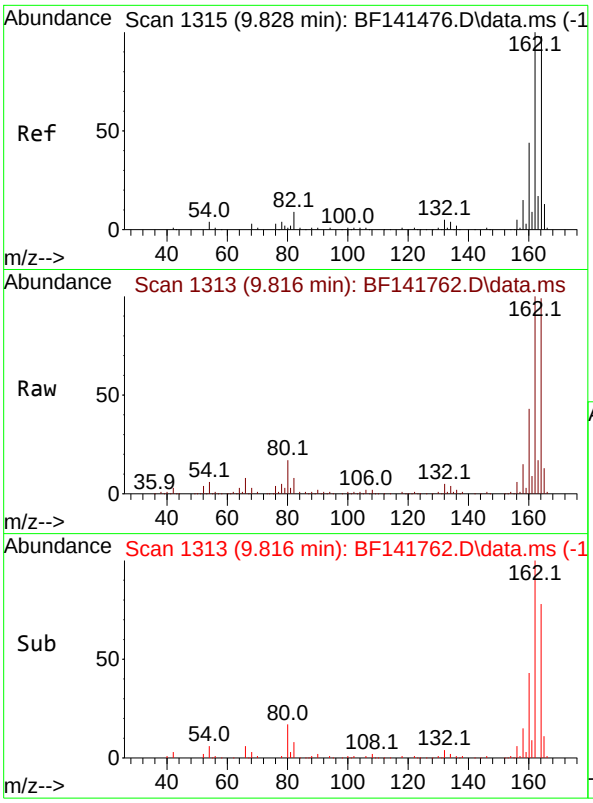


#38
1-Methylnaphthalene
Concen: 41.703 ng
RT: 8.875 min Scan# 1153
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:142 Resp: 487134

Ion	Ratio	Lower	Upper
142	100		
141	91.6	72.1	108.1

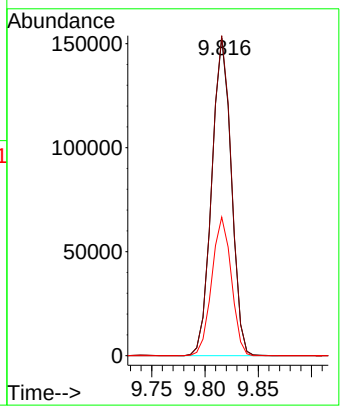




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:164 Resp: 19455

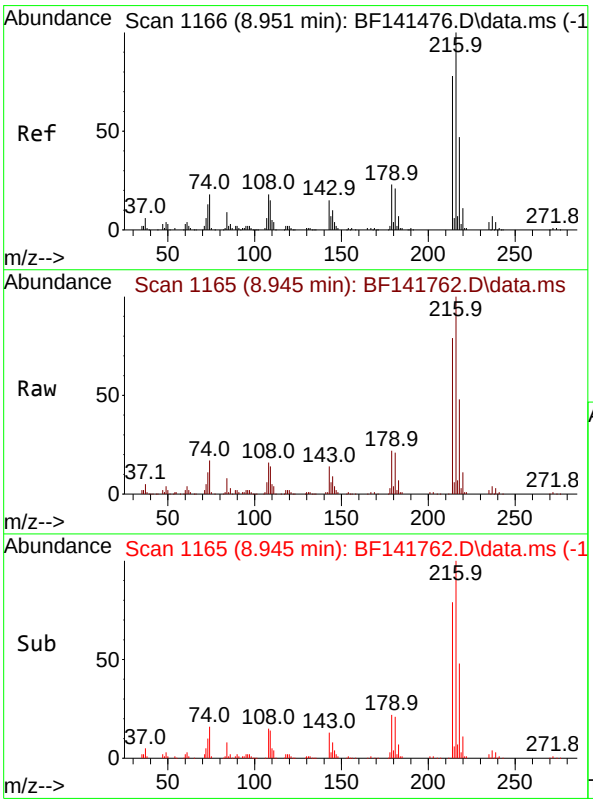
Ion	Ratio	Lower	Upper
164	100		
162	100.8	81.3	121.9
160	43.6	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

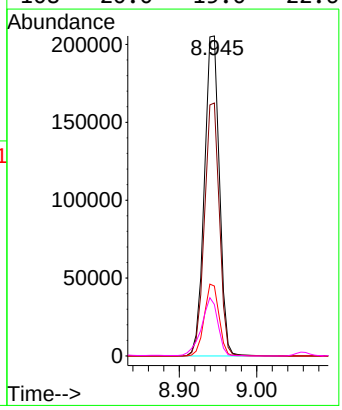
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

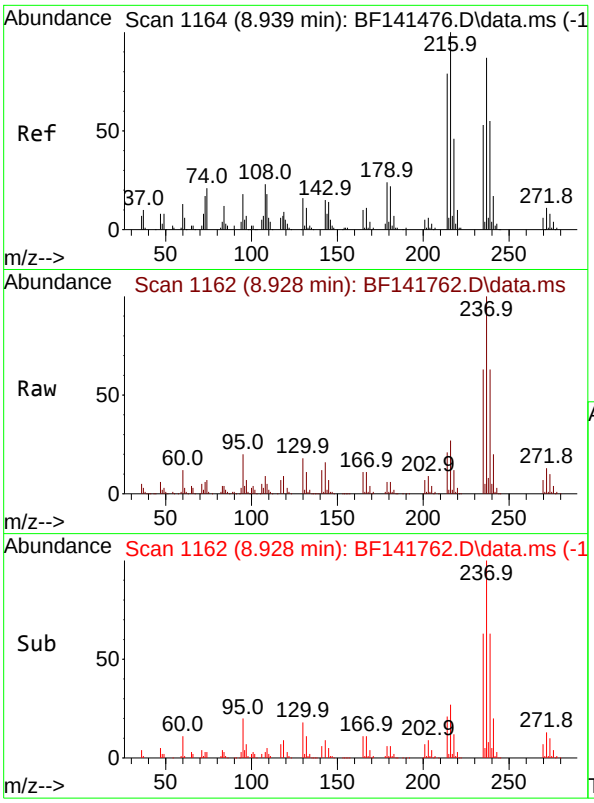


#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.007 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:216 Resp: 275848

Ion	Ratio	Lower	Upper
216	100		
214	78.6	62.3	93.5
179	22.1	18.0	27.0
108	20.0	15.0	22.6

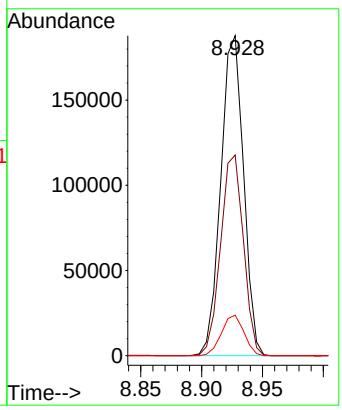




#41
Hexachlorocyclopentadiene
Concen: 130.391 ng
RT: 8.928 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:237 Resp: 24411

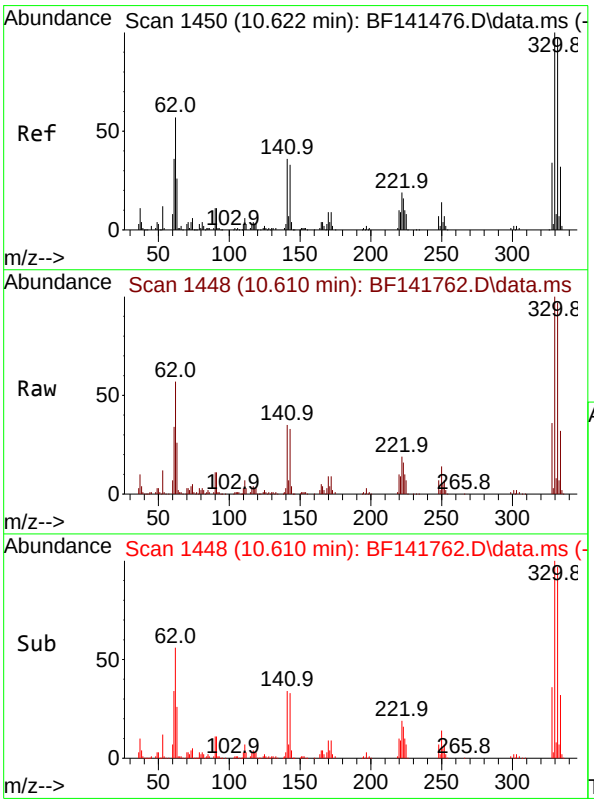
Ion	Ratio	Lower	Upper
237	100		
235	62.7	41.4	81.4
272	12.6	0.0	32.4



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

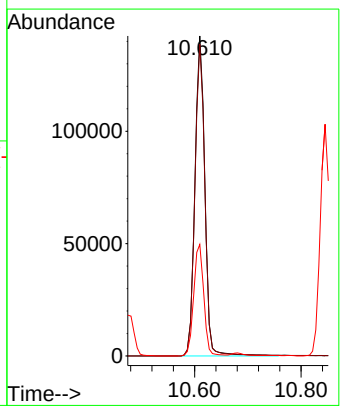
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

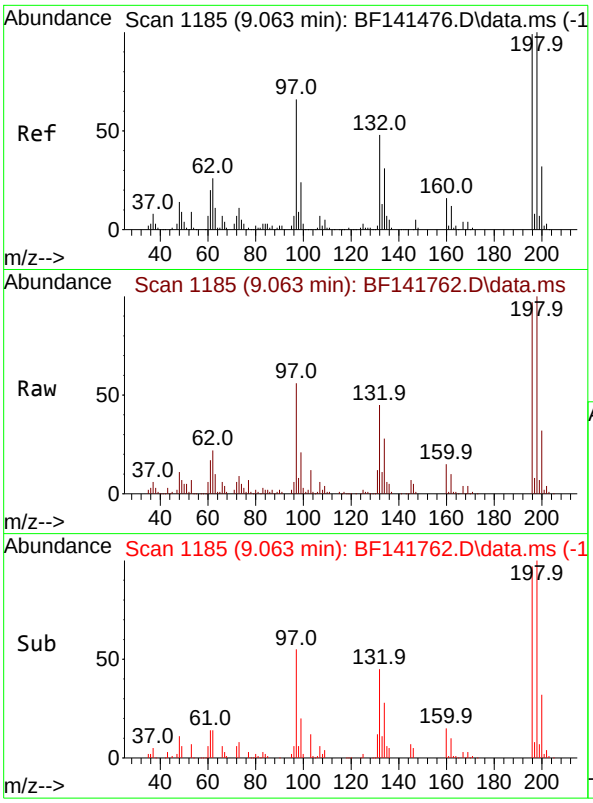


#42
2,4,6-Tribromophenol
Concen: 94.150 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:330 Resp: 184005

Ion	Ratio	Lower	Upper
330	100		
332	97.3	78.5	117.7
141	35.5	31.0	46.4

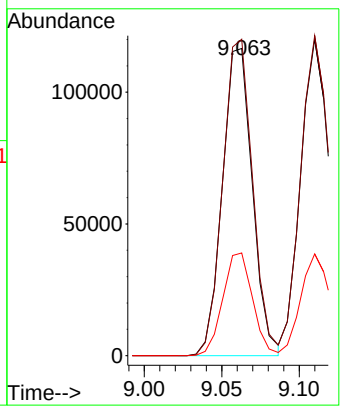




#43
2,4,6-Trichlorophenol
Concen: 43.266 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:196 Resp: 15739

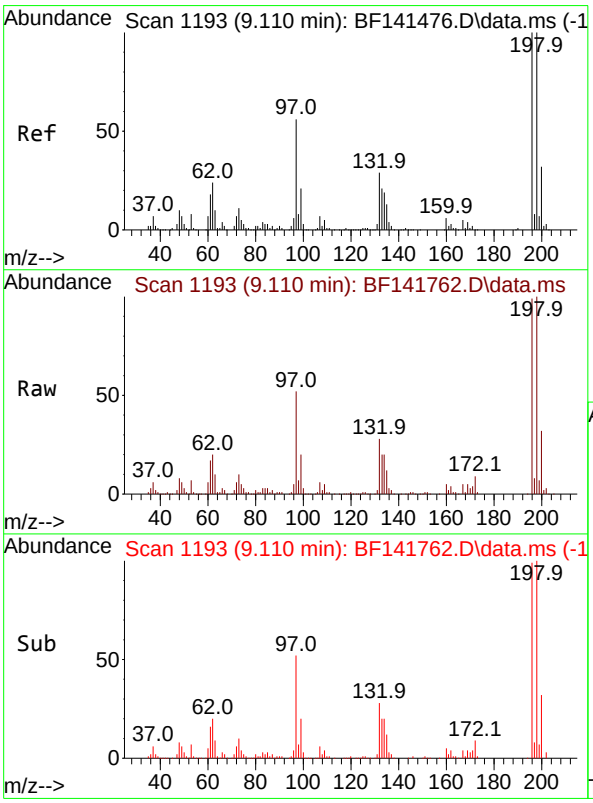
Ion	Ratio	Lower	Upper
196	100		
198	103.0	80.6	121.0
200	33.5	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

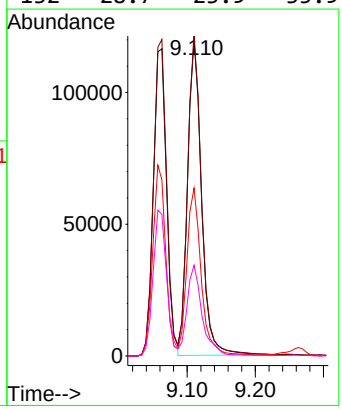
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

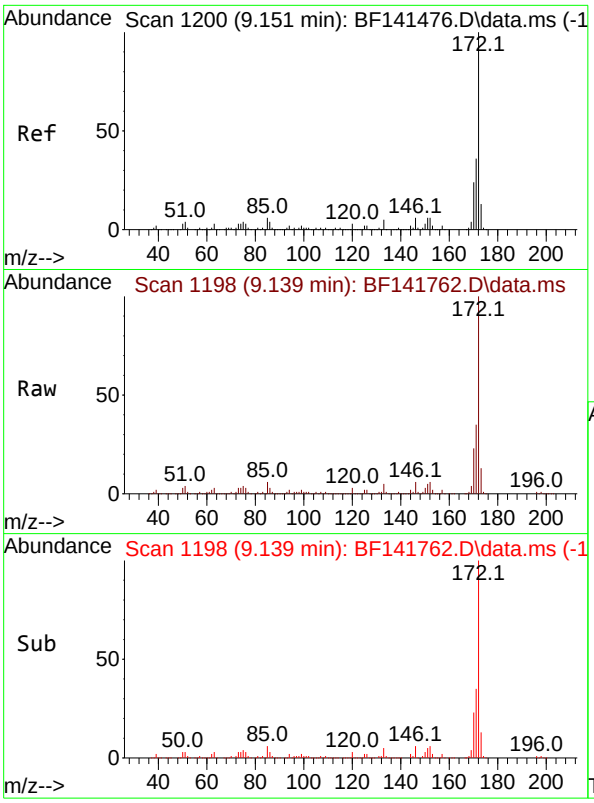


#44
2,4,5-Trichlorophenol
Concen: 42.997 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:196 Resp: 169521

Ion	Ratio	Lower	Upper
196	100		
198	101.1	79.8	119.8
97	53.0	44.8	67.2
132	28.7	23.9	35.9

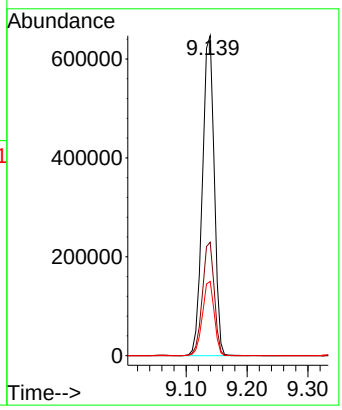




#45
2-Fluorobiphenyl
Concen: 69.210 ng
RT: 9.139 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:172 Resp: 87399

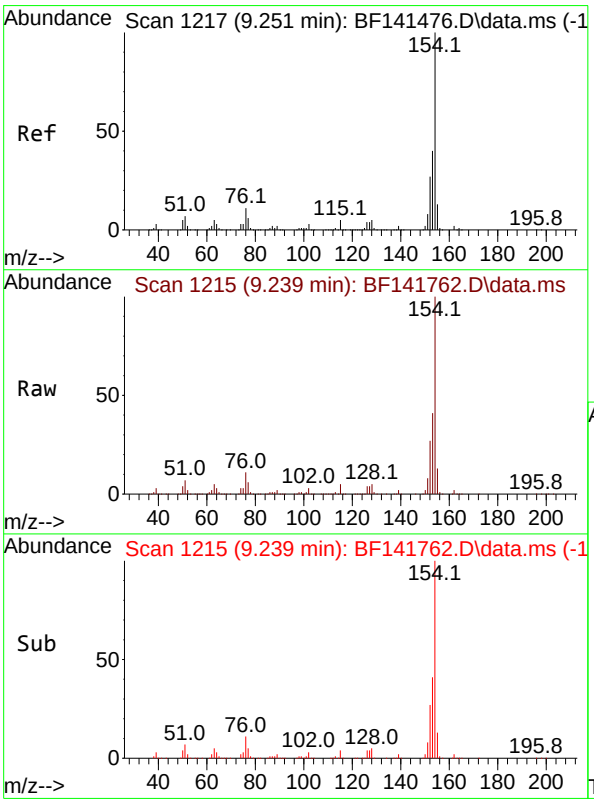
Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.7	43.1
170	23.2	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

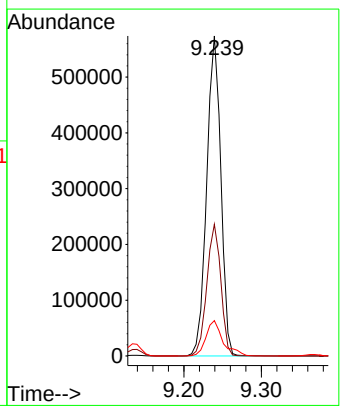
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

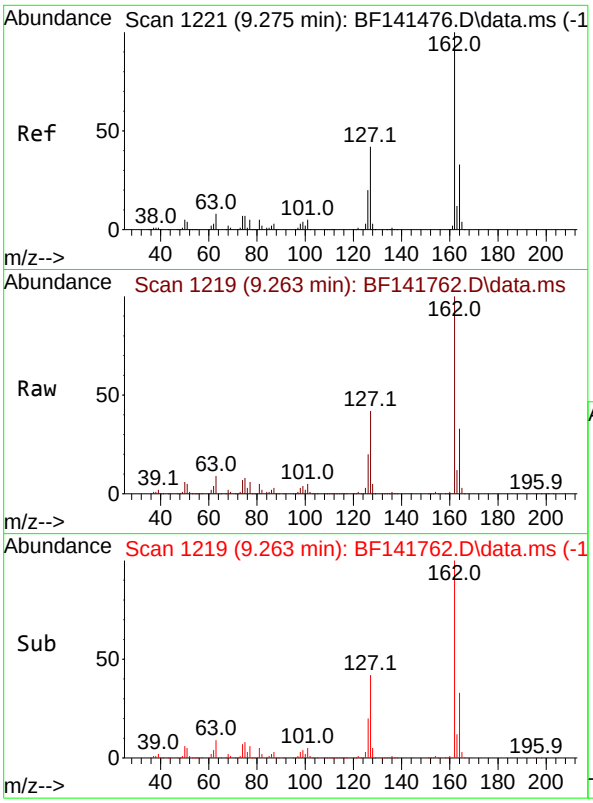


#46
1,1'-Biphenyl
Concen: 48.113 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:154 Resp: 725705

Ion	Ratio	Lower	Upper
154	100		
153	41.2	20.4	60.4
76	11.0	0.0	30.8

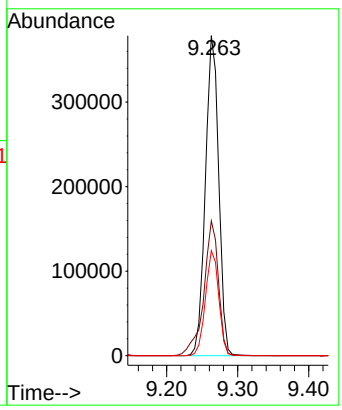




#47
2-Chloronaphthalene
Concen: 44.370 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:162 Resp: 49489

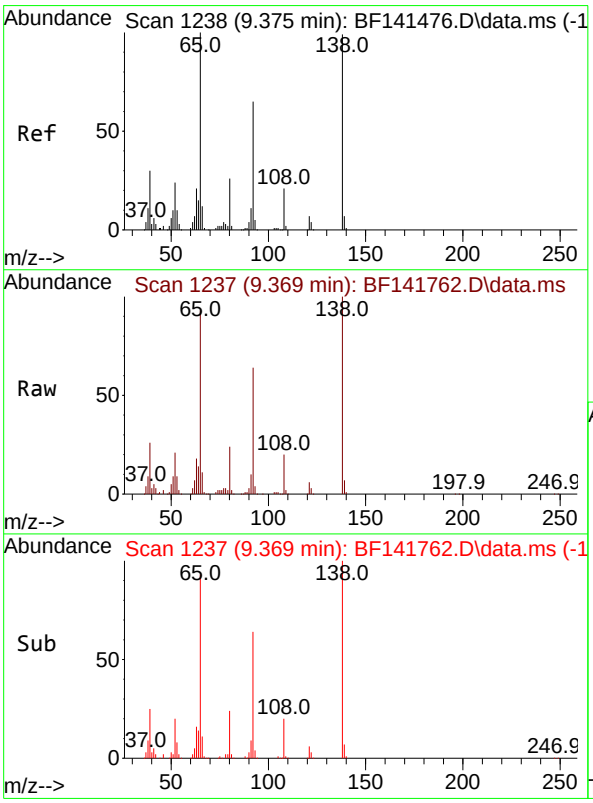
Ion	Ratio	Lower	Upper
162	100		
127	42.1	34.1	51.1
164	32.8	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

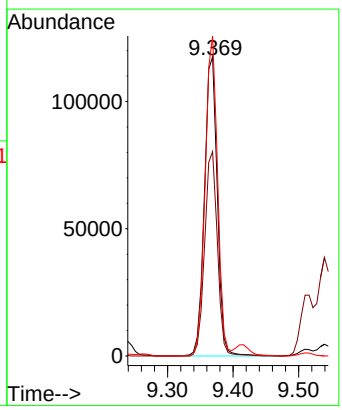
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

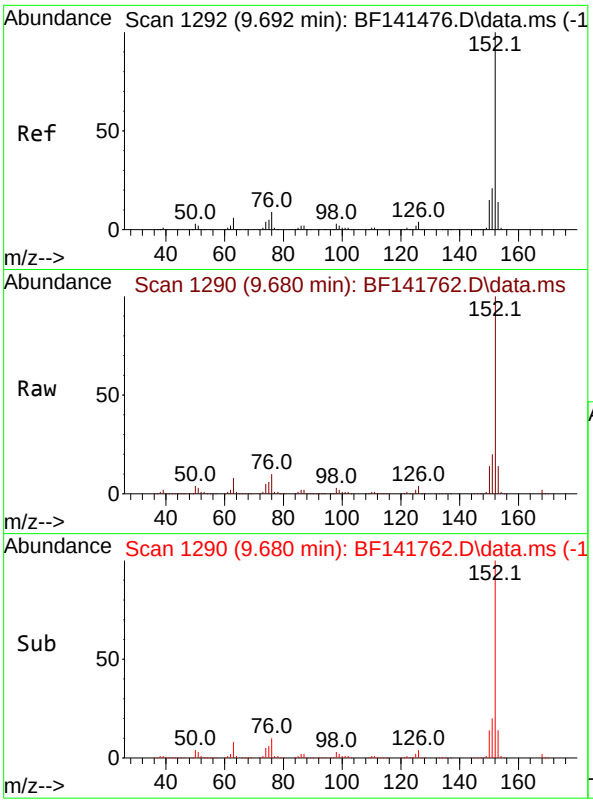


#48
2-Nitroaniline
Concen: 42.929 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 65 Resp: 160694

Ion	Ratio	Lower	Upper
65	100		
92	68.3	52.2	78.2
138	107.0	79.5	119.3

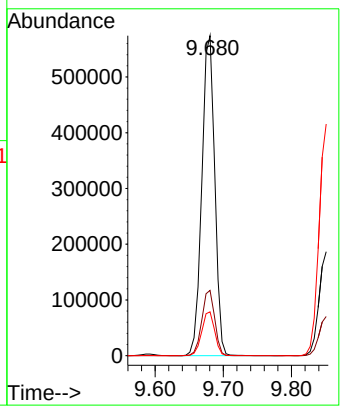




#49
Acenaphthylene
Concen: 45.562 ng
RT: 9.680 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:152 Resp: 75586

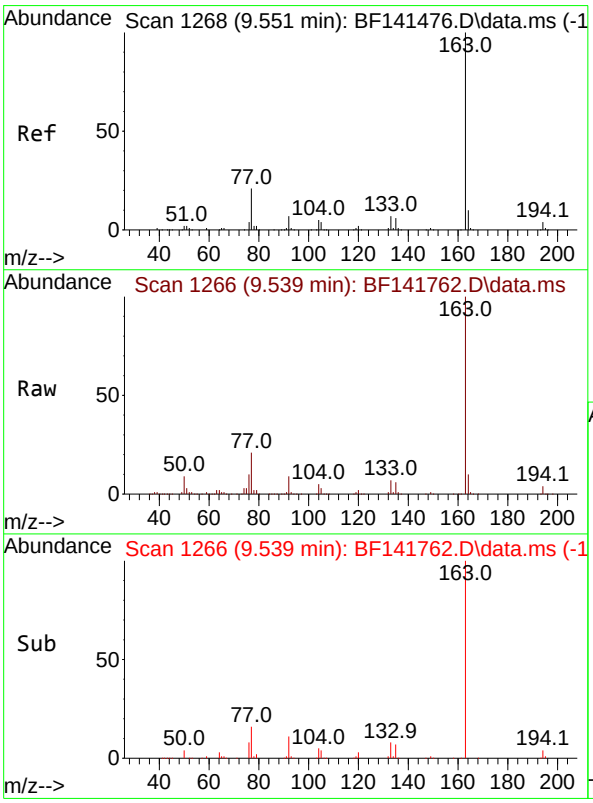
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.4	24.6
153	13.7	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

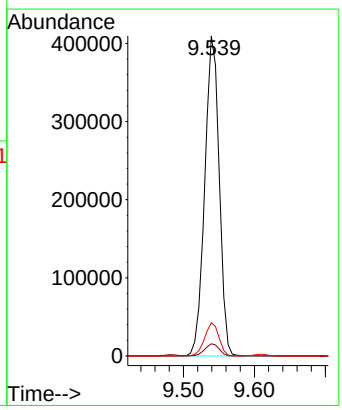
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

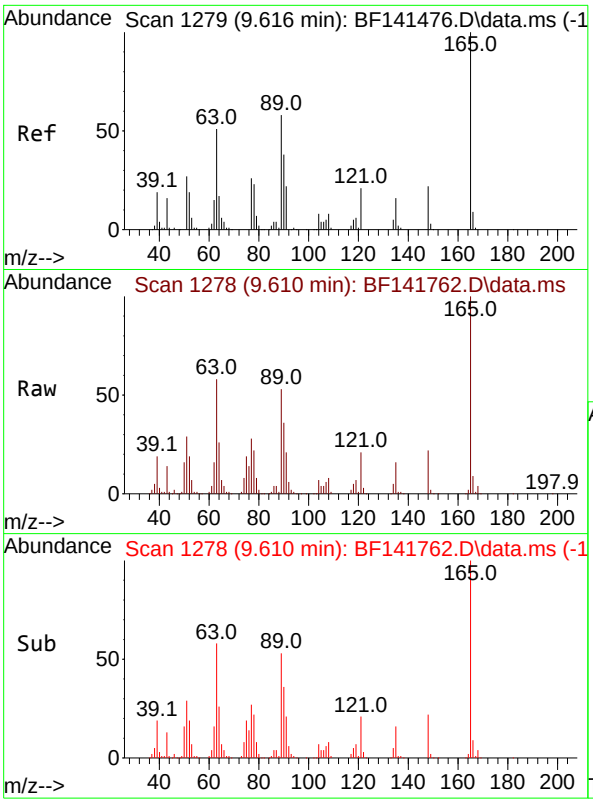


#50
Dimethylphthalate
Concen: 44.018 ng
RT: 9.539 min Scan# 1266
Delta R.T. -0.023 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:163 Resp: 581376

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.4	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 44.370 ng
RT: 9.610 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

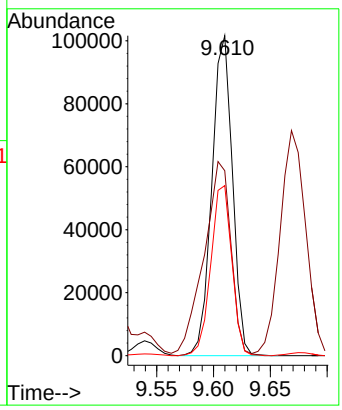
Tgt Ion:165 Resp: 12811

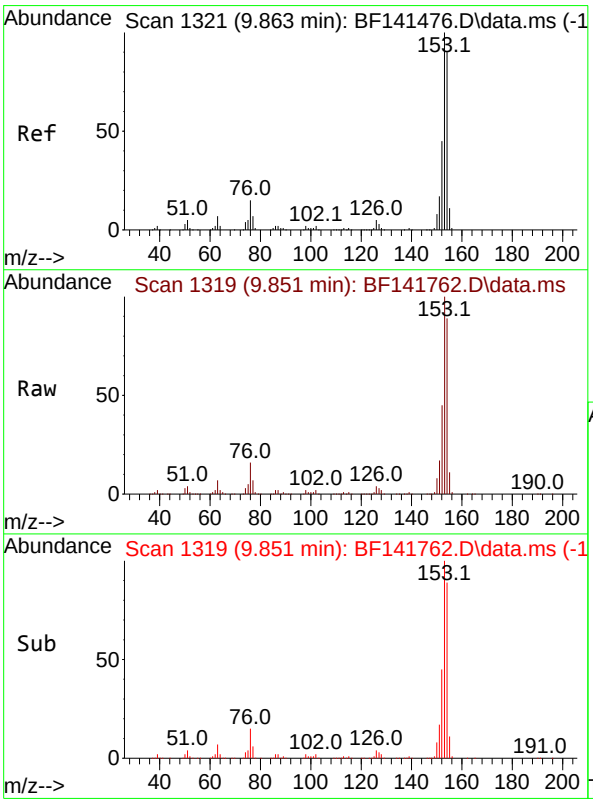
Ion	Ratio	Lower	Upper
165	100		
63	57.8	49.4	74.0
89	53.2	46.5	69.7

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

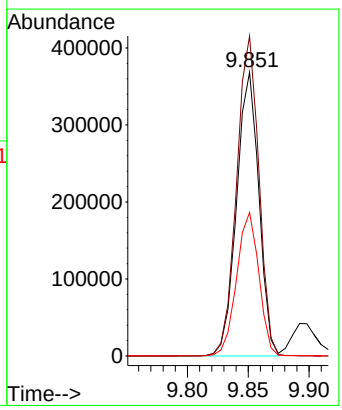


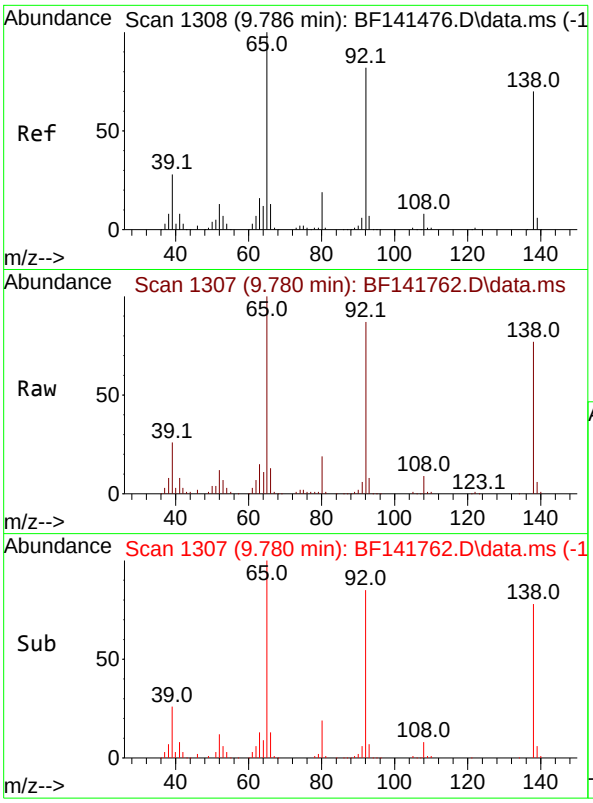


#52
Acenaphthene
Concen: 42.116 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:154 Resp: 469732

Ion	Ratio	Lower	Upper
154	100		
153	112.8	89.2	133.8
152	50.6	39.8	59.8

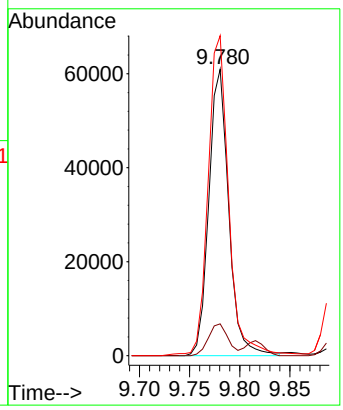




#53
3-Nitroaniline
Concen: 27.053 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

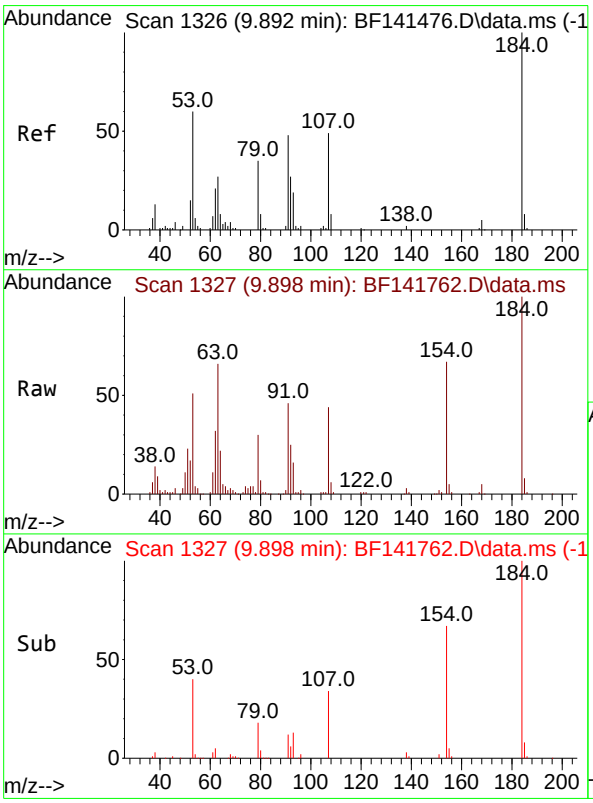
Tgt Ion:138 Resp: 8406

Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.0	13.4
92	111.7	93.7	140.5



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

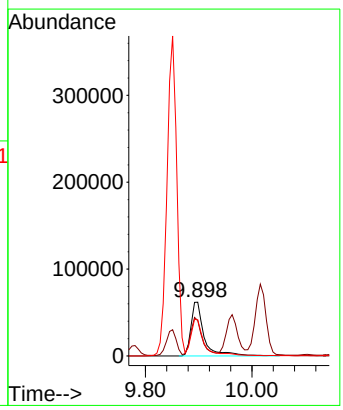
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

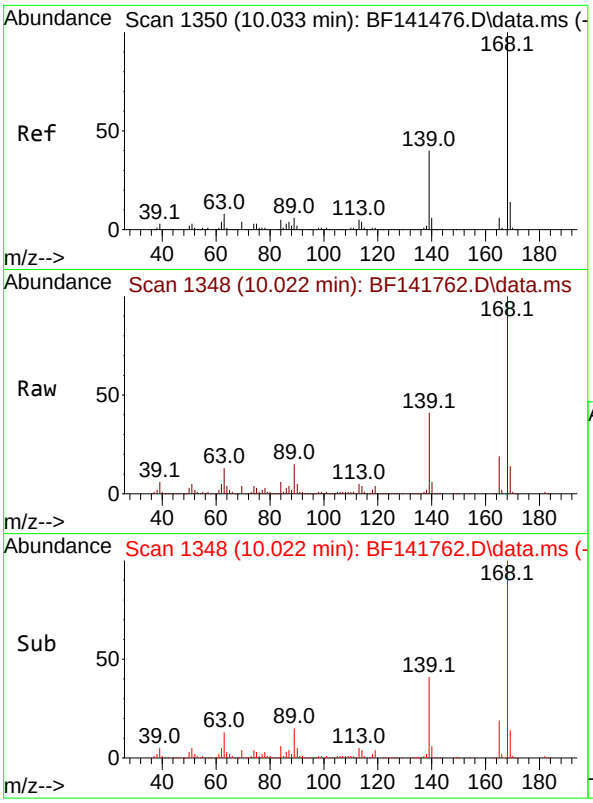


#54
2,4-Dinitrophenol
Concen: 62.880 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:184 Resp: 107902

Ion	Ratio	Lower	Upper
184	100		
63	65.9	61.0	91.6
154	67.5	59.9	89.9

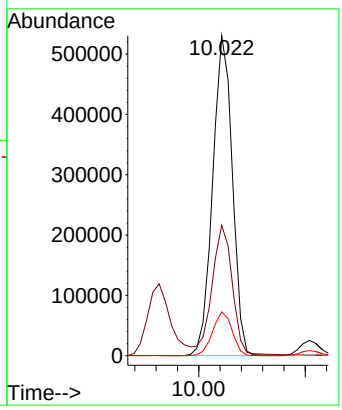




#55
Dibenzofuran
Concen: 41.505 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:168 Resp: 67946

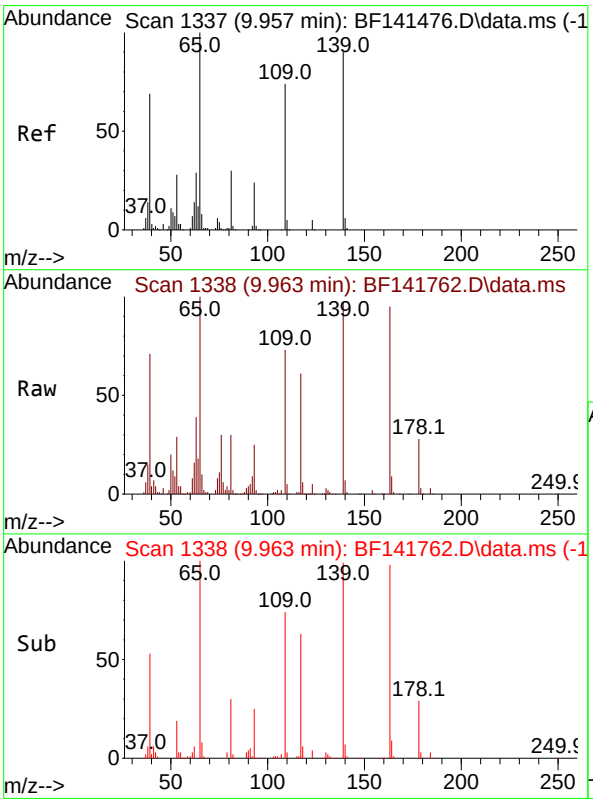
Ion	Ratio	Lower	Upper
168	100		
139	40.8	32.7	49.1
169	13.7	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

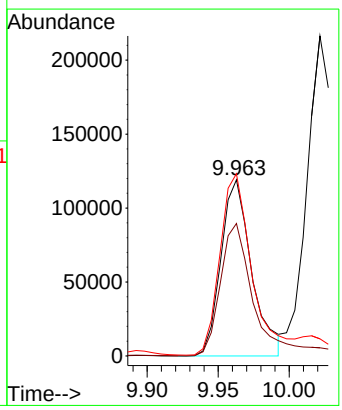
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

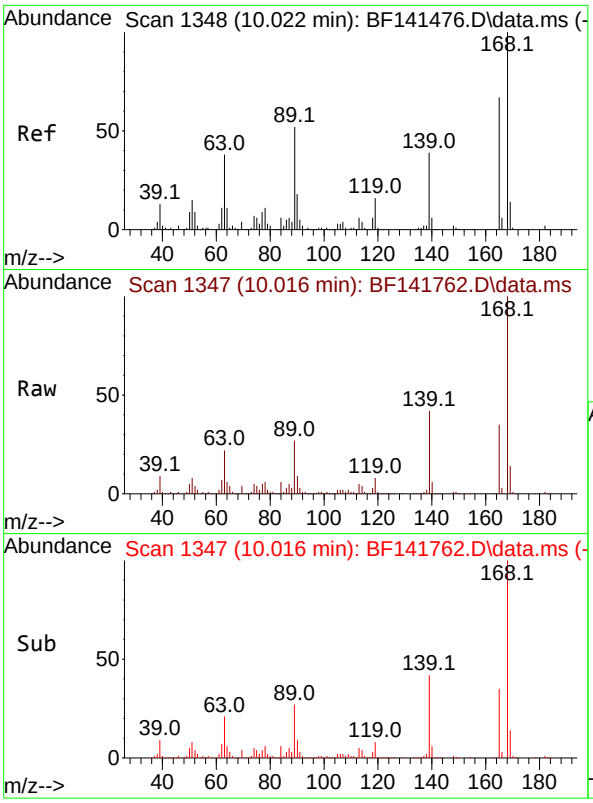


#56
4-Nitrophenol
Concen: 77.578 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:139 Resp: 178963

Ion	Ratio	Lower	Upper
139	100		
109	75.3	62.0	102.0
65	103.5	91.2	131.2

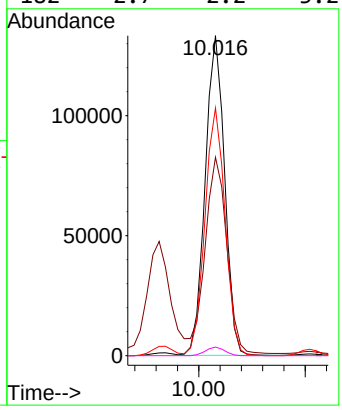




#57
2,4-Dinitrotoluene
Concen: 43.913 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:165 Resp: 16879

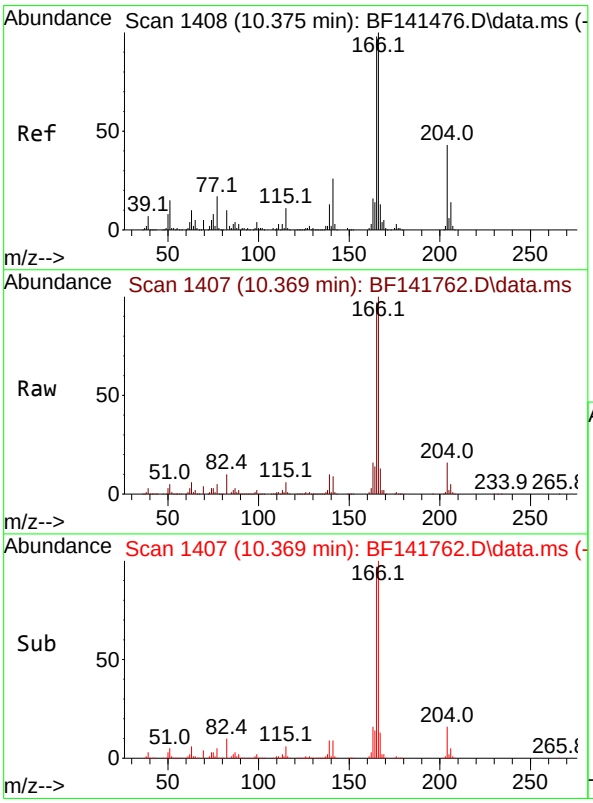
Ion	Ratio	Lower	Upper
165	100		
63	62.0	46.4	69.6
89	77.4	61.8	92.6
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

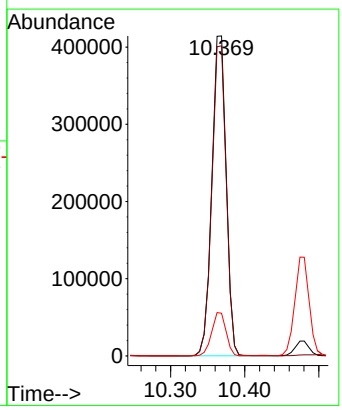
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

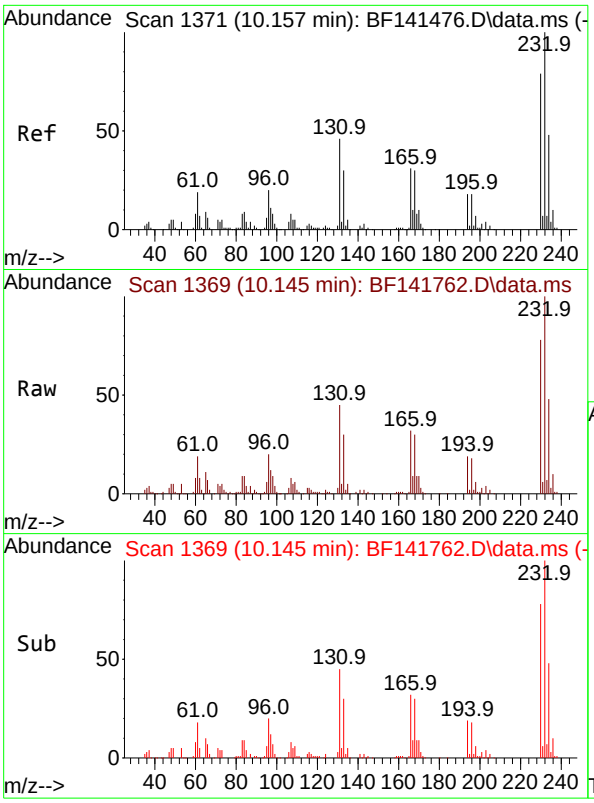


#58
Fluorene
Concen: 44.002 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:166 Resp: 556982

Ion	Ratio	Lower	Upper
166	100		
165	96.9	78.2	117.2
167	13.3	10.7	16.1

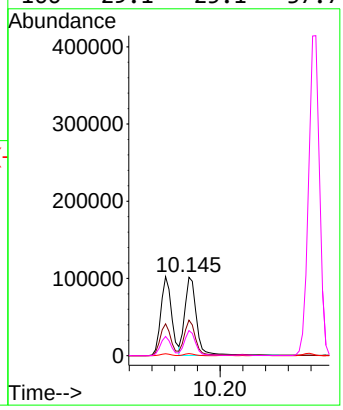




#59
2,3,4,6-Tetrachlorophenol
Concen: 42.444 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:232 Resp: 14406

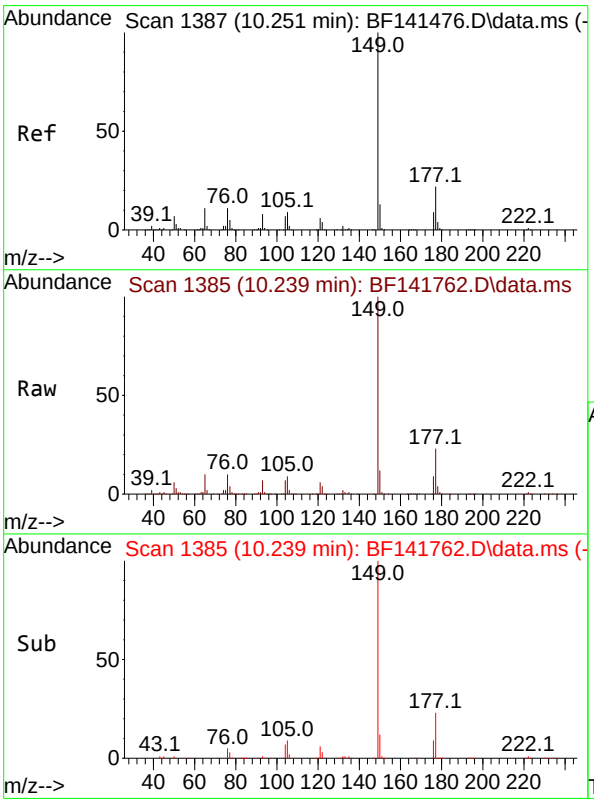
Ion	Ratio	Lower	Upper
232	100		
131	42.1	39.2	58.8
130	2.3	2.1	3.1
166	29.1	25.1	37.7



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

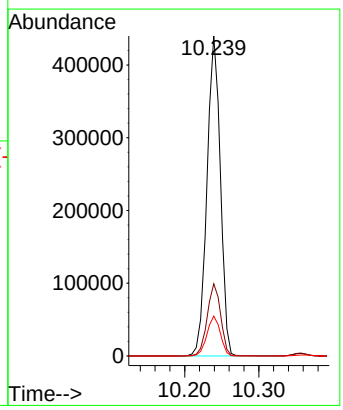
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

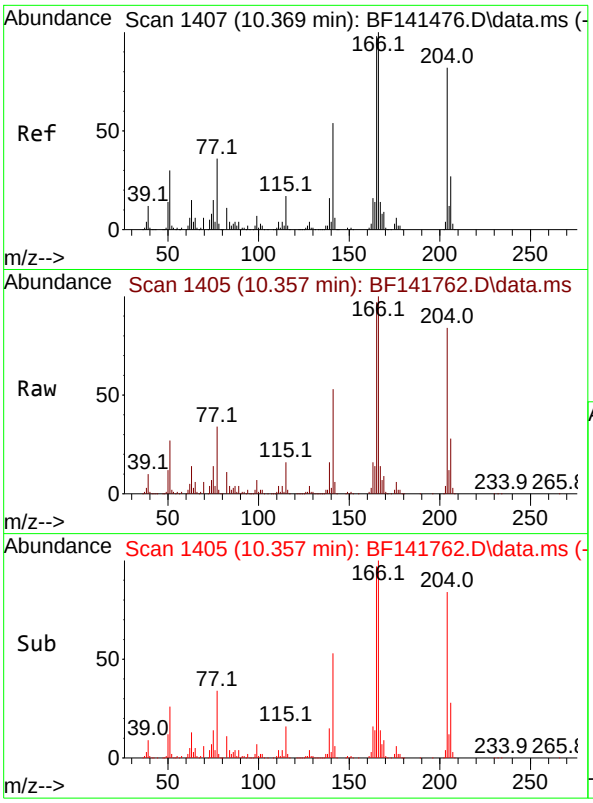


#60
Diethylphthalate
Concen: 42.482 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:149 Resp: 552047

Ion	Ratio	Lower	Upper
149	100		
177	22.6	17.8	26.6
150	12.5	10.1	15.1

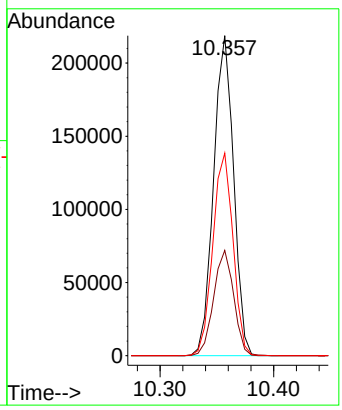




#61
4-Chlorophenyl-phenylether
Concen: 44.014 ng
RT: 10.357 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:204 Resp: 26802

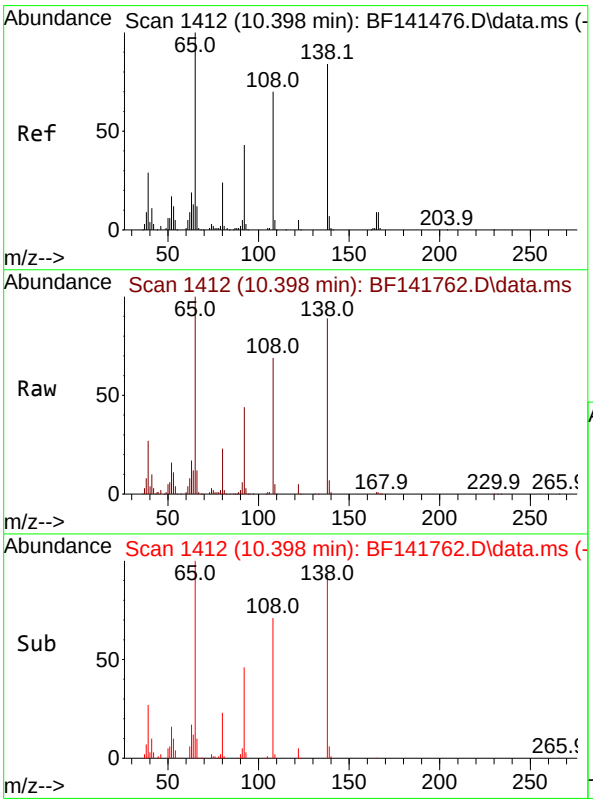
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.6	40.0
141	63.3	51.9	77.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

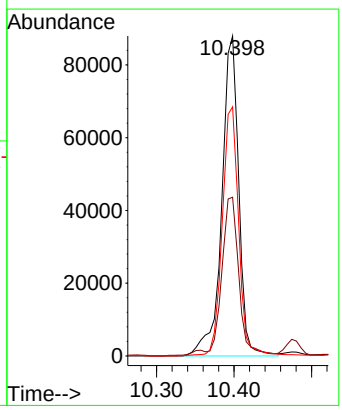
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

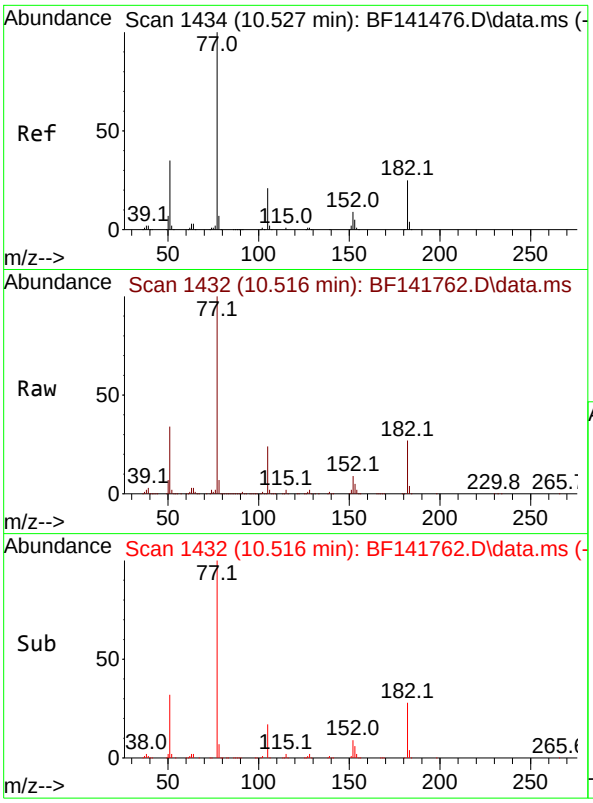


#62
4-Nitroaniline
Concen: 42.465 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:138 Resp: 133998

Ion	Ratio	Lower	Upper
138	100		
92	49.6	31.3	71.3
108	77.8	63.7	103.7

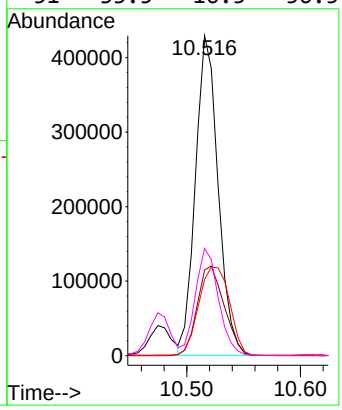




#63
Azobenzene
Concen: 46.111 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 77 Resp: 59568

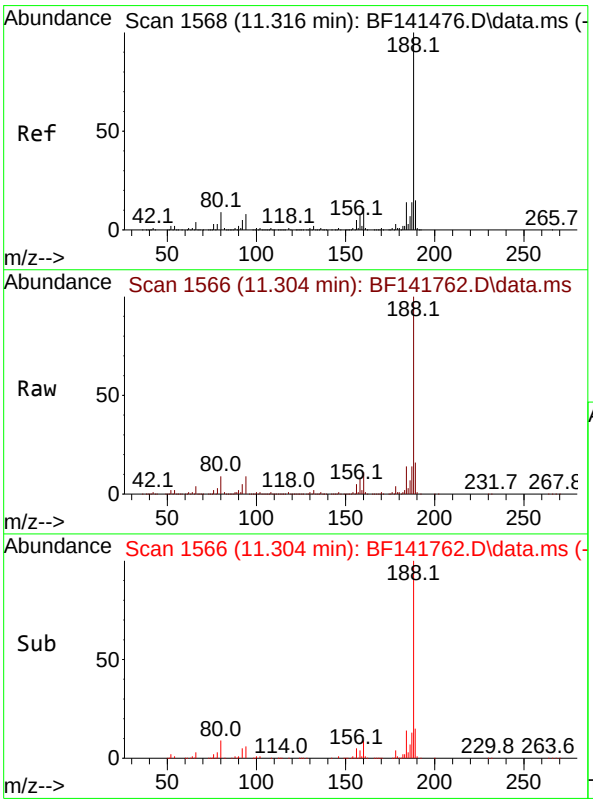
Ion	Ratio	Lower	Upper
77	100		
182	26.8	4.7	44.7
105	23.8	0.4	40.4
51	33.5	16.5	56.5



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

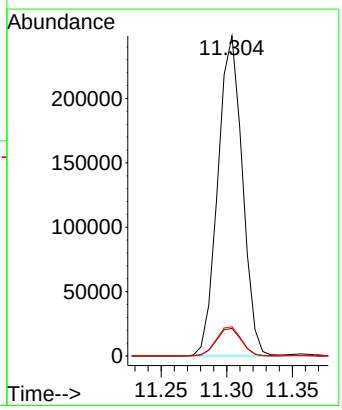
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

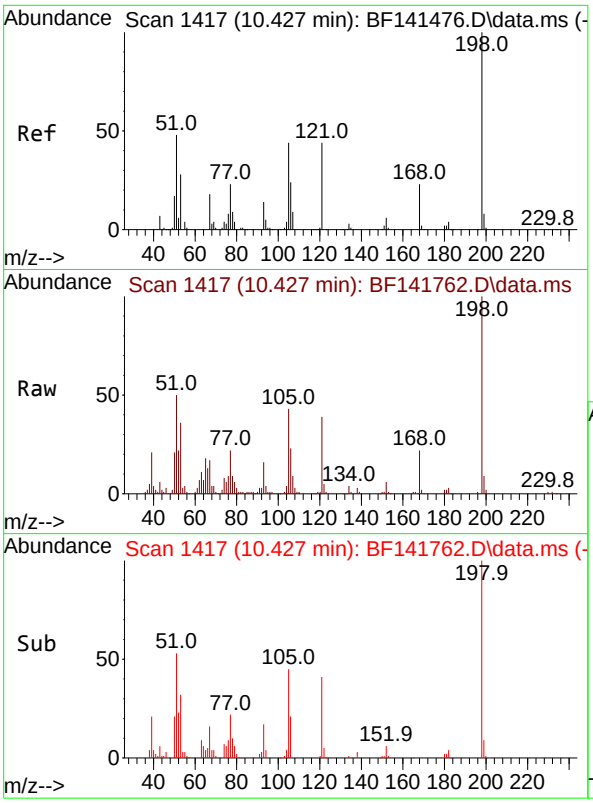


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:188 Resp: 323859

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.1	7.3	10.9

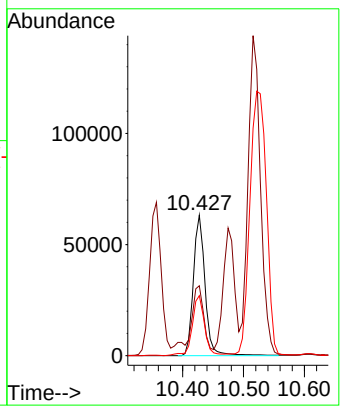




#65
4,6-Dinitro-2-methylphenol
Concen: 37.608 ng
RT: 10.427 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:198 Resp: 8460

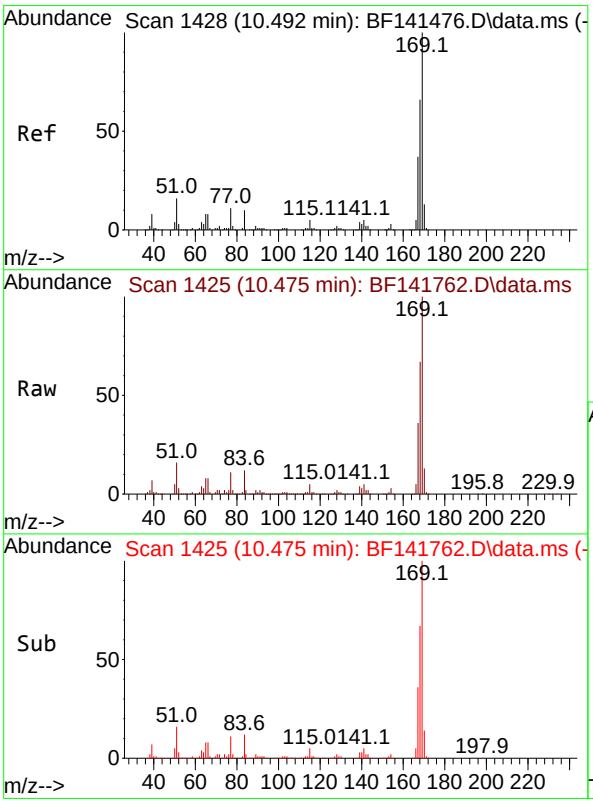
Ion	Ratio	Lower	Upper
198	100		
51	49.8	37.4	77.4
105	42.7	25.2	65.2



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

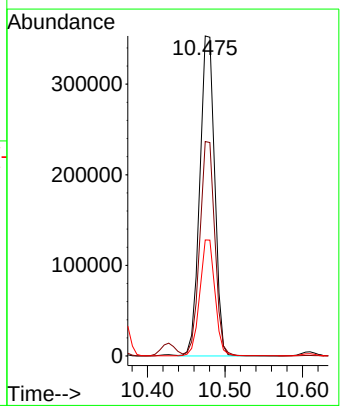
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

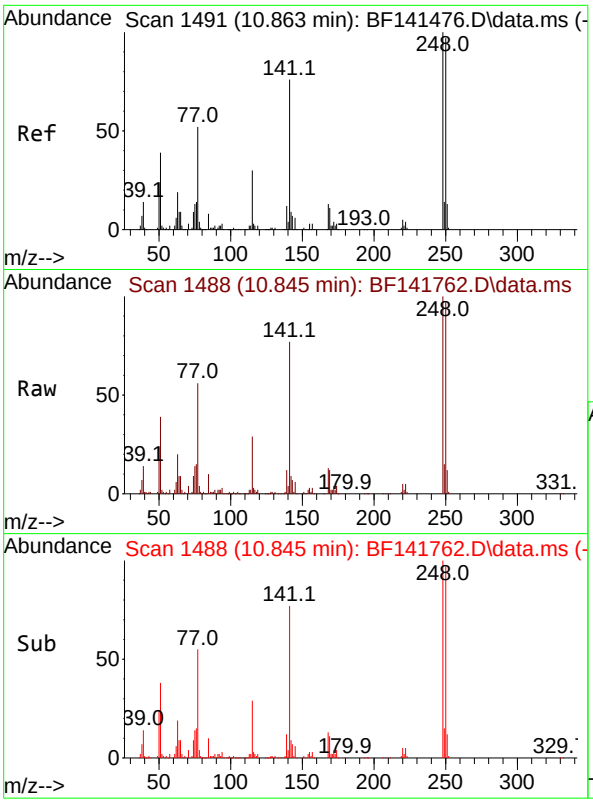


#66
n-Nitrosodiphenylamine
Concen: 45.558 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.023 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:169 Resp: 472300

Ion	Ratio	Lower	Upper
169	100		
168	67.0	53.3	79.9
167	36.2	29.4	44.2

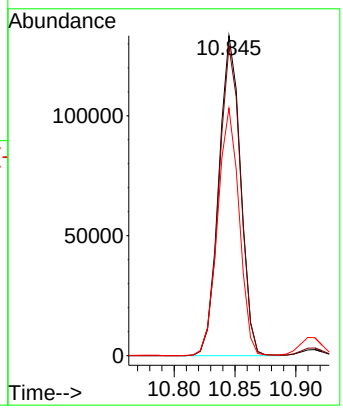




#67
4-Bromophenyl-phenylether
Concen: 45.796 ng
RT: 10.845 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:248 Resp: 16576

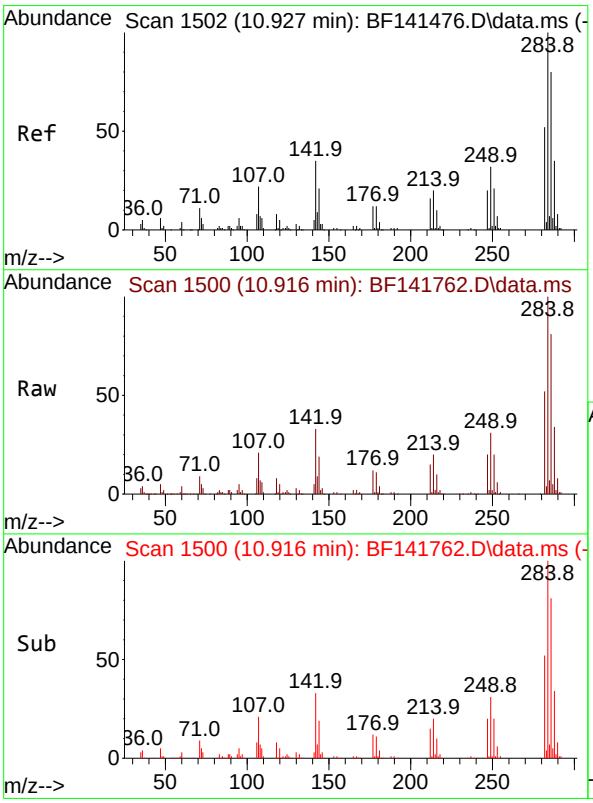
Ion	Ratio	Lower	Upper
248	100		
250	96.6	77.8	116.6
141	77.3	60.6	90.8



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

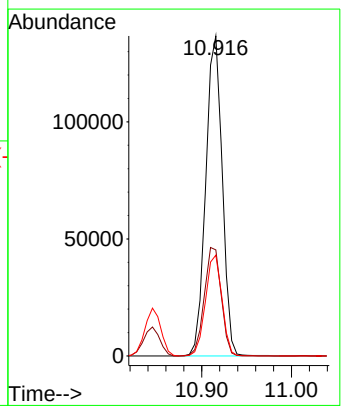
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

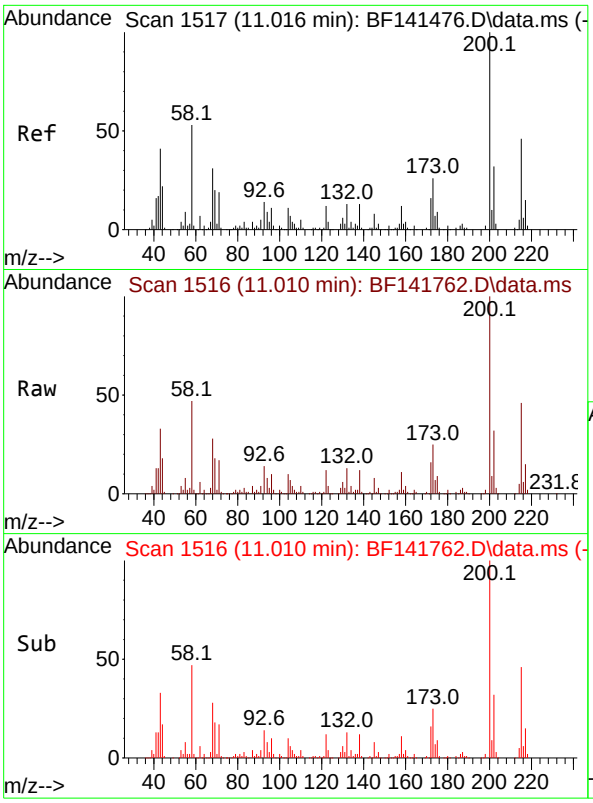


#68
Hexachlorobenzene
Concen: 46.793 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:284 Resp: 174405

Ion	Ratio	Lower	Upper
284	100		
142	33.1	28.0	42.0
249	31.5	25.8	38.8

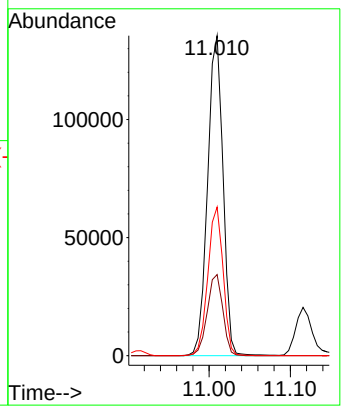




#69
Atrazine
Concen: 57.328 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:200 Resp: 17829

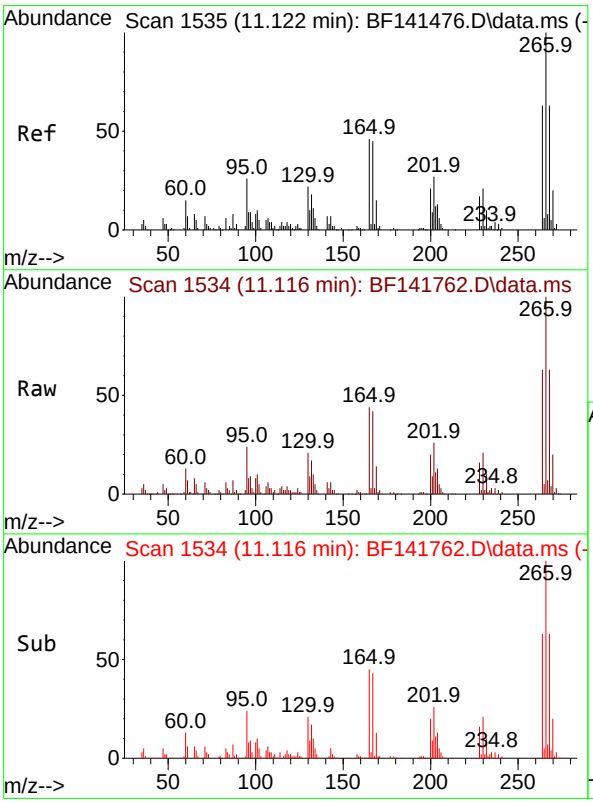
Ion	Ratio	Lower	Upper
200	100		
173	25.4	5.9	45.9
215	46.4	25.9	65.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

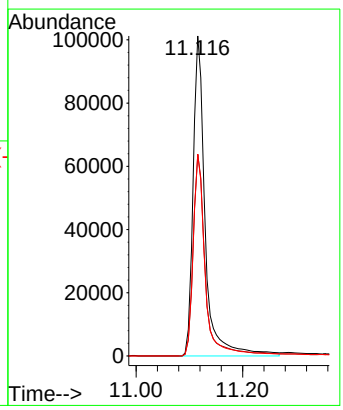
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

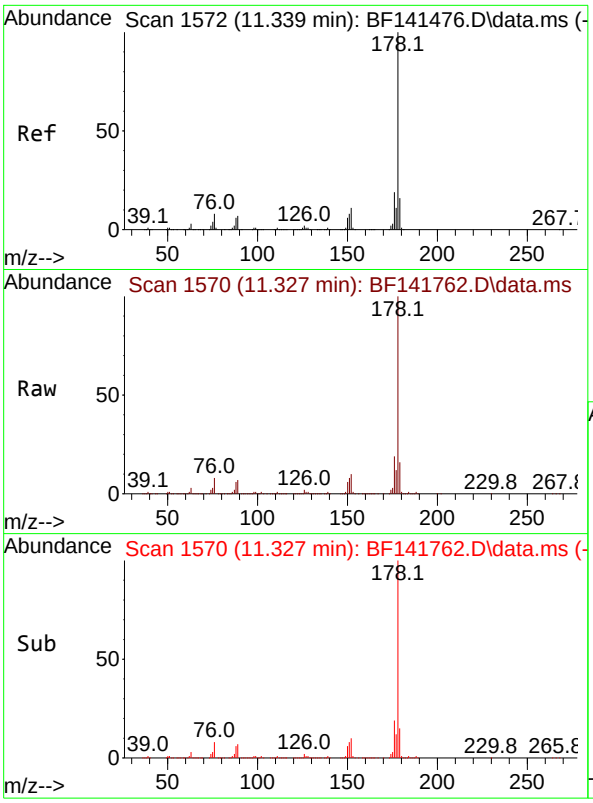


#70
Pentachlorophenol
Concen: 67.302 ng
RT: 11.116 min Scan# 1534
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:266 Resp: 160396

Ion	Ratio	Lower	Upper
266	100		
268	63.0	50.1	75.1
264	63.1	50.1	75.1

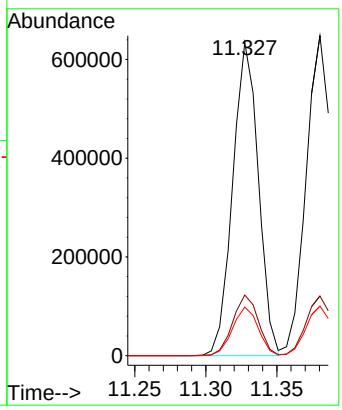




#71
Phenanthrene
Concen: 44.718 ng
RT: 11.327 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:178 Resp: 79719

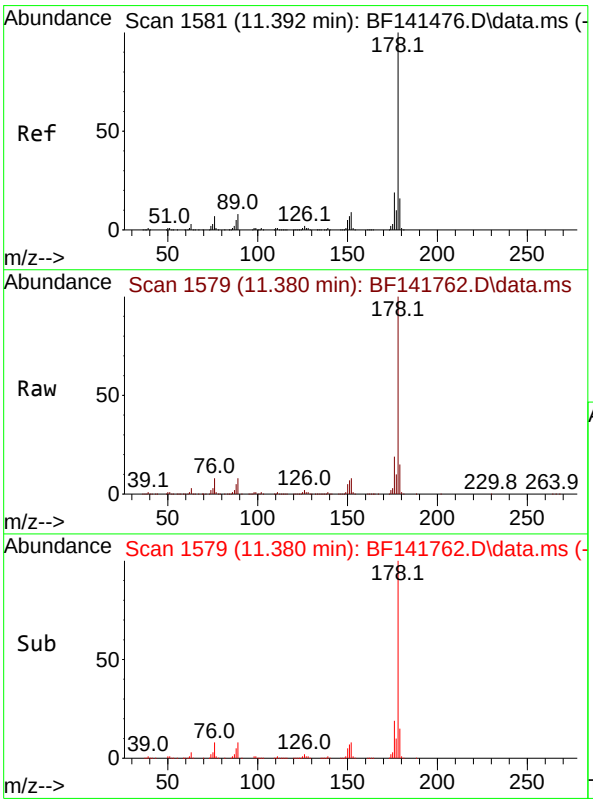
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.5	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

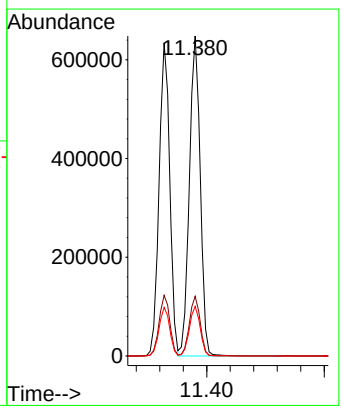
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

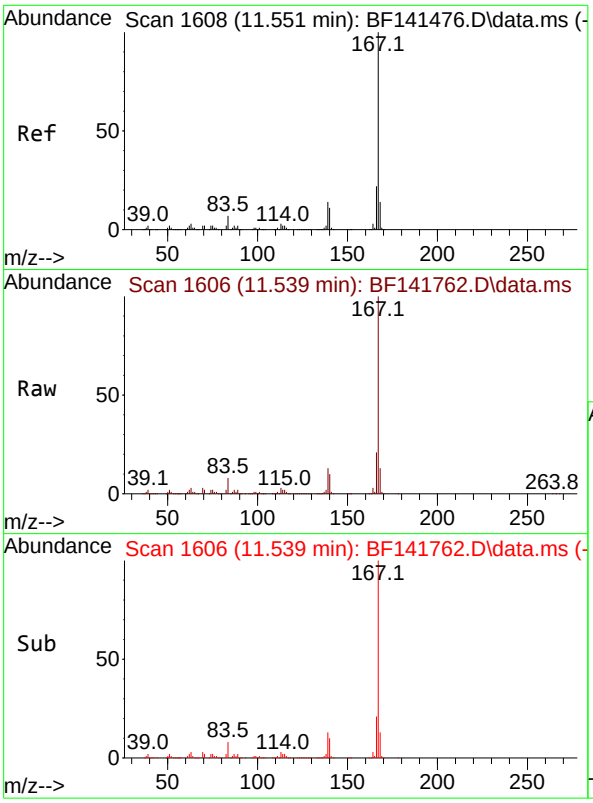


#72
Anthracene
Concen: 46.220 ng
RT: 11.380 min Scan# 1579
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:178 Resp: 828278

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.8	22.2
179	15.5	12.4	18.6

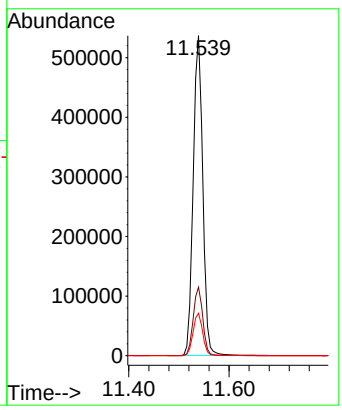




#73
Carbazole
Concen: 44.056 ng
RT: 11.539 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:167 Resp: 71038

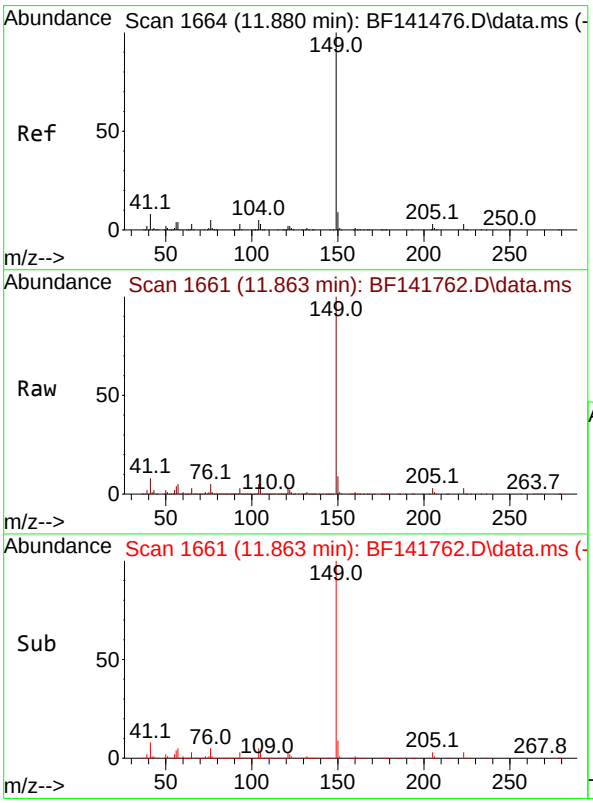
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.4	26.2
139	13.3	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

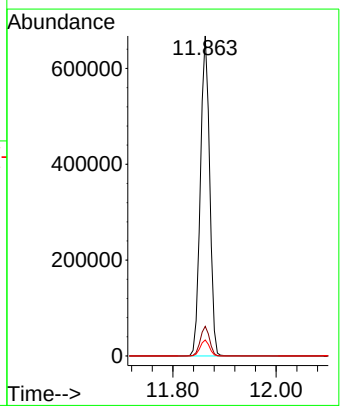
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

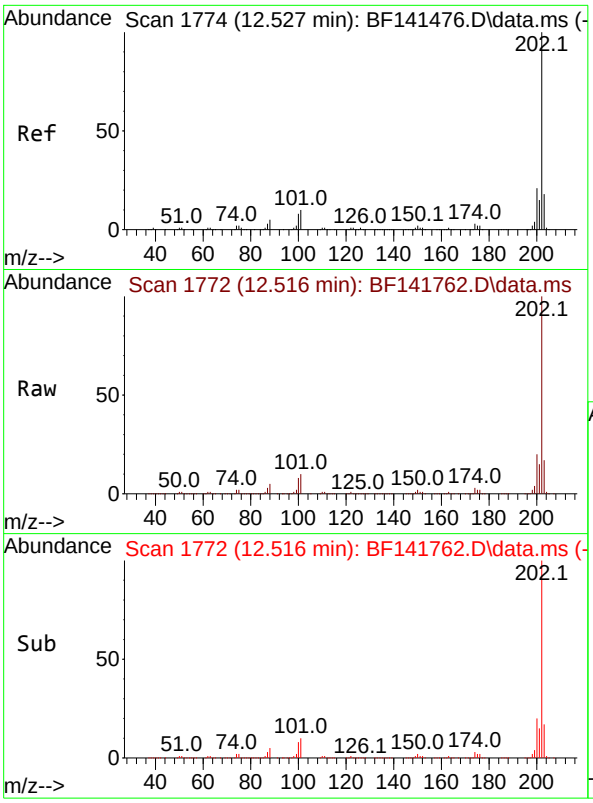


#74
Di-n-butylphthalate
Concen: 44.631 ng
RT: 11.863 min Scan# 1661
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:149 Resp: 830961

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.0	4.2	6.2

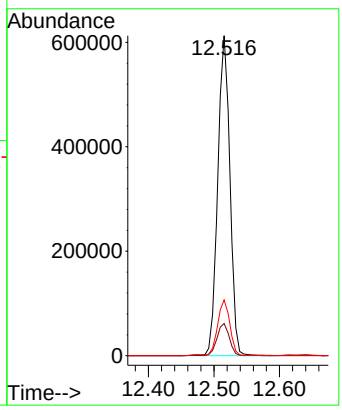




#75
Fluoranthene
Concen: 41.553 ng
RT: 12.516 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:202 Resp: 78535

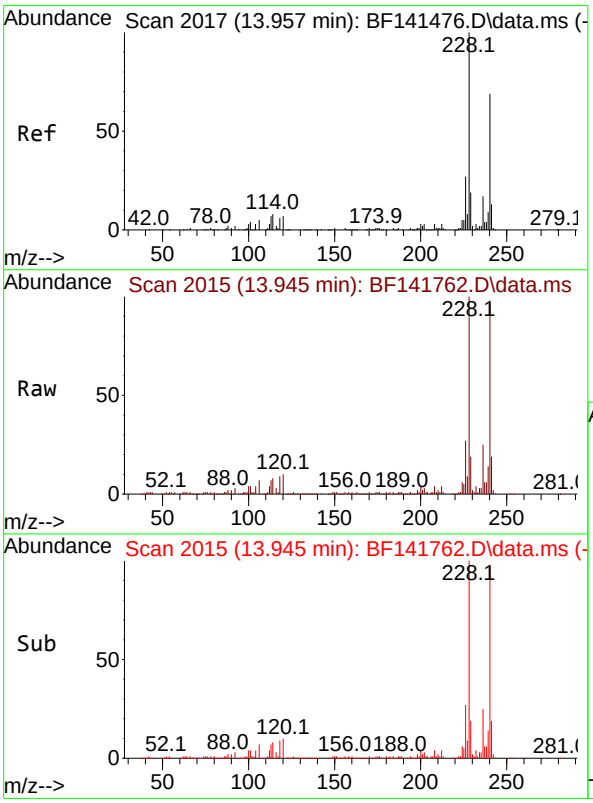
Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.4	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

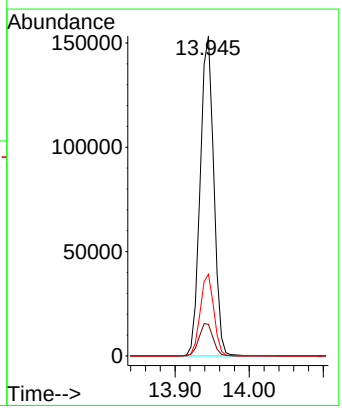
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

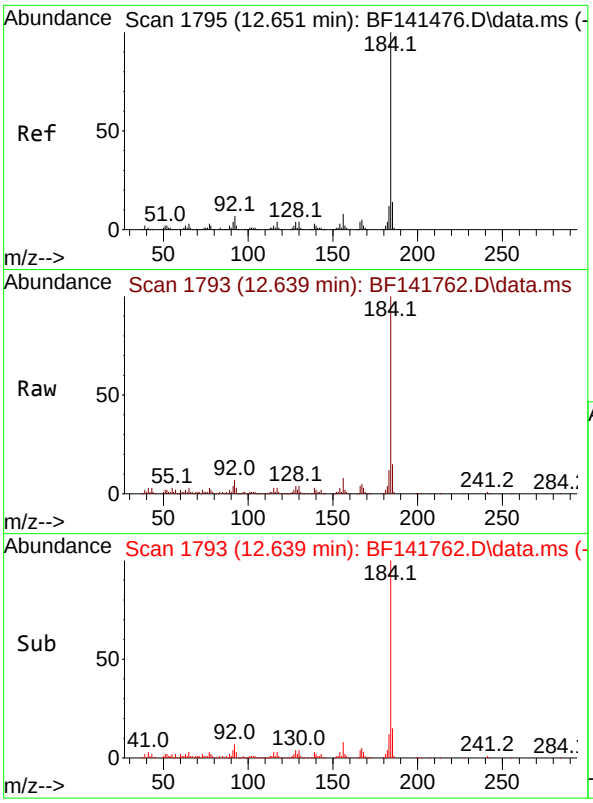


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:240 Resp: 195463

Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.0	12.0
236	25.6	19.8	29.8

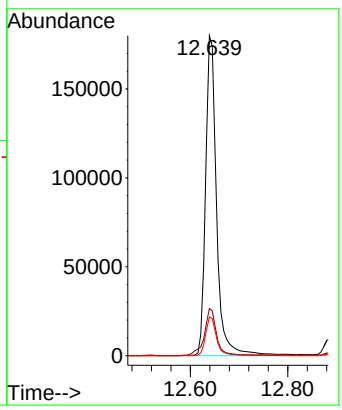




#77
Benzidine
Concen: 64.980 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:184 Resp: 28011

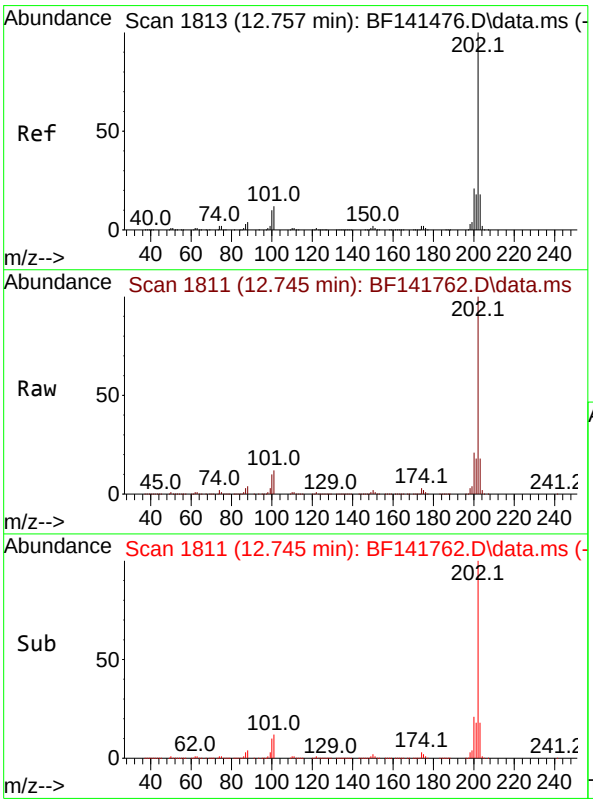
Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.3	16.9
183	12.1	9.3	13.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

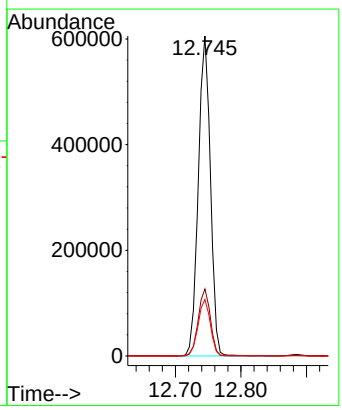
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

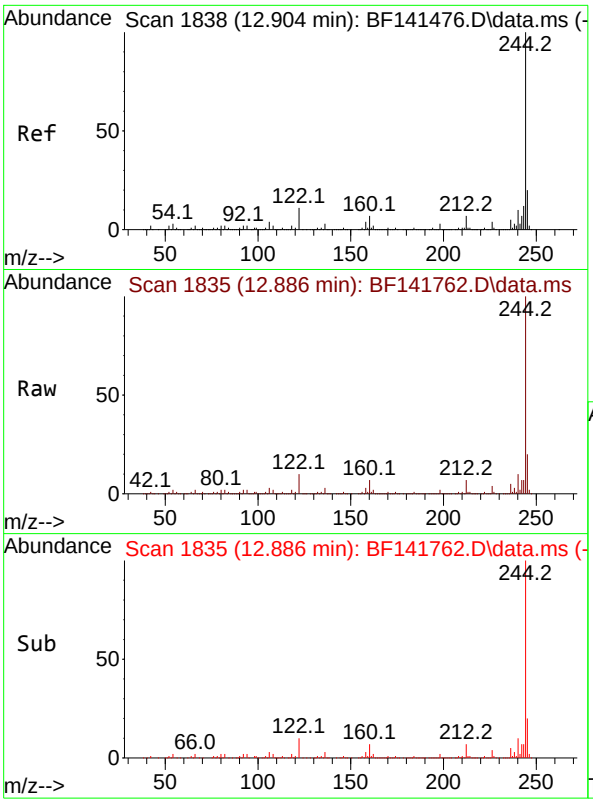


#78
Pyrene
Concen: 46.789 ng
RT: 12.745 min Scan# 1811
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:202 Resp: 778525

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.6	14.3	21.5

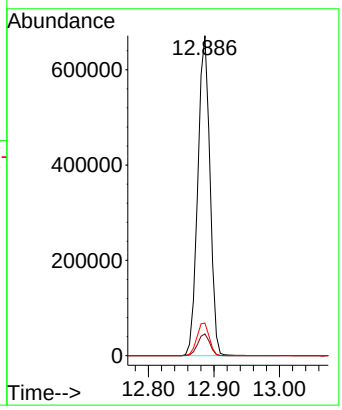




#79
Terphenyl-d14
Concen: 74.868 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:244 Resp: 86685

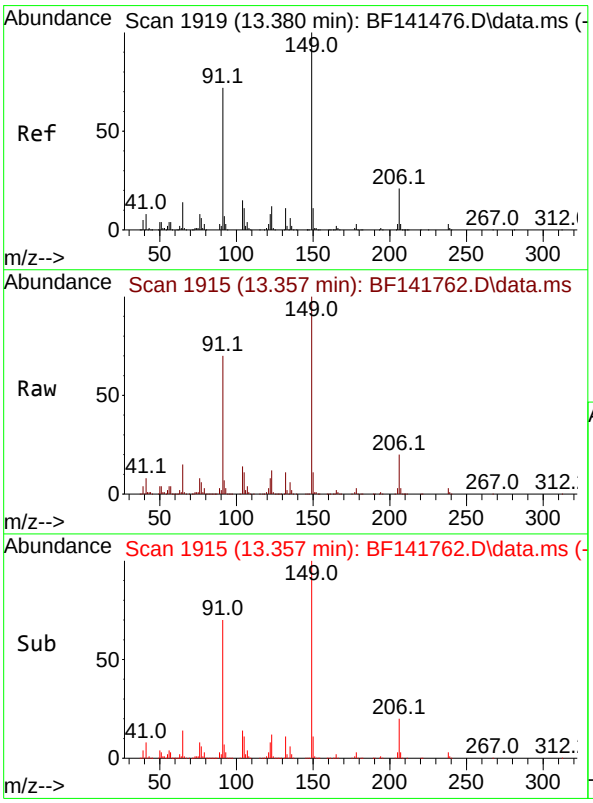
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.2	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

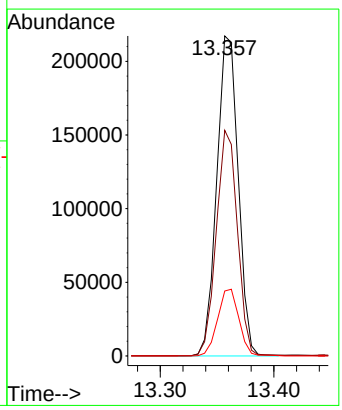
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

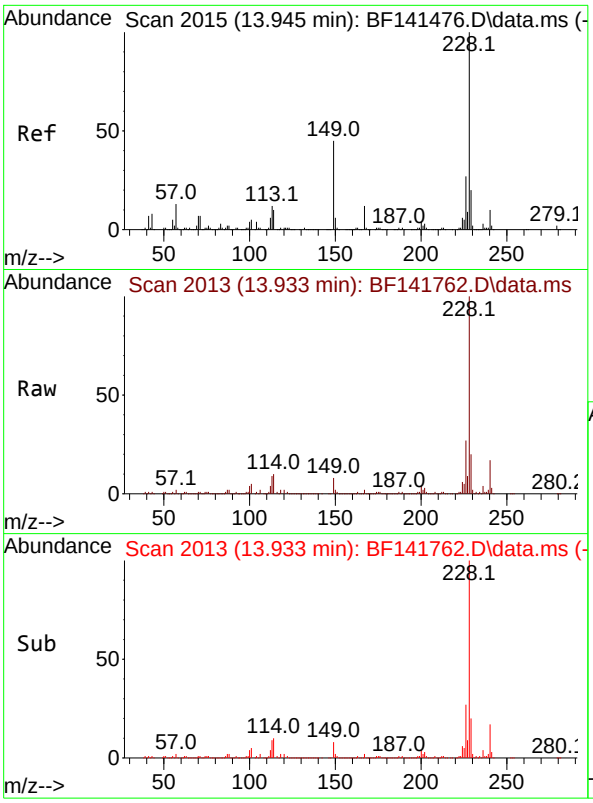


#80
Butylbenzylphthalate
Concen: 49.467 ng
RT: 13.357 min Scan# 1915
Delta R.T. -0.023 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:149 Resp: 285094

Ion	Ratio	Lower	Upper
149	100		
91	70.5	57.8	86.8
206	20.3	16.7	25.1

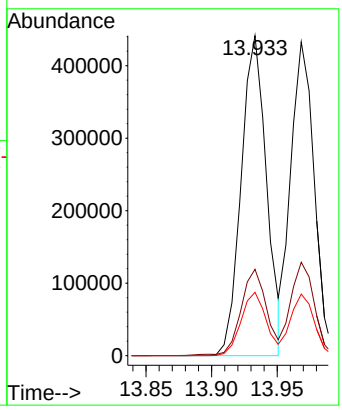




#81
Benzo(a)anthracene
Concen: 45.818 ng
RT: 13.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:228 Resp: 59532

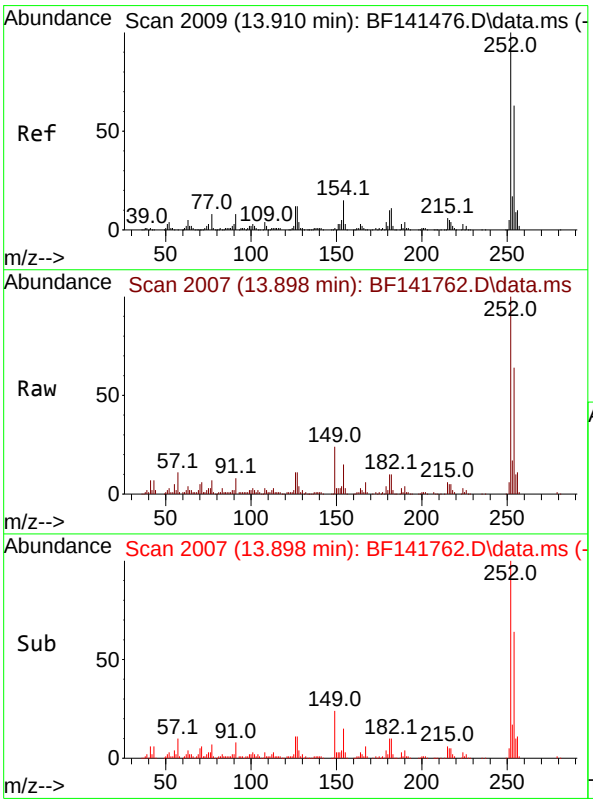
Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.8	32.8
229	19.8	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

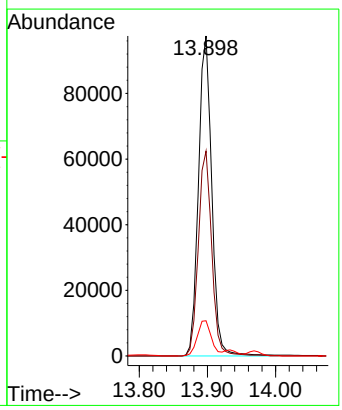
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

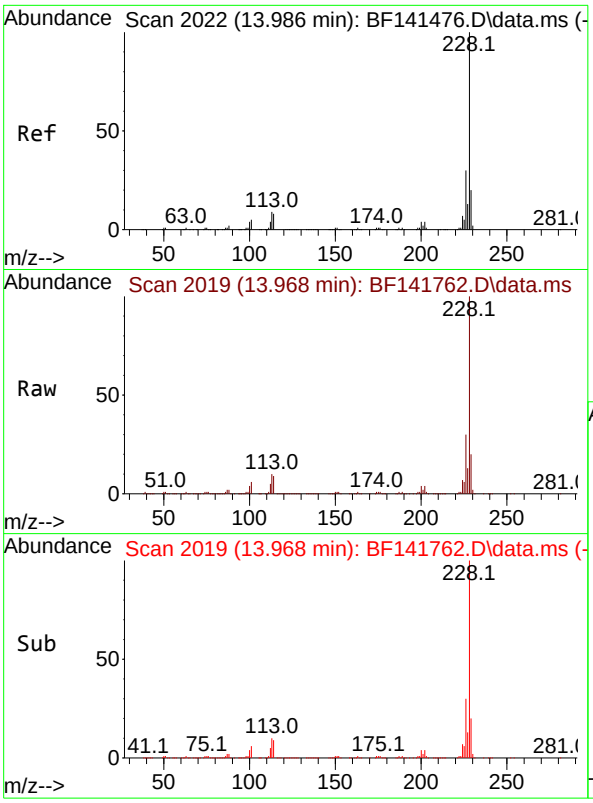


#82
3,3'-Dichlorobenzidine
Concen: 35.480 ng
RT: 13.898 min Scan# 2007
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:252 Resp: 132055

Ion	Ratio	Lower	Upper
252	100		
254	64.0	50.6	76.0
126	11.0	9.3	13.9

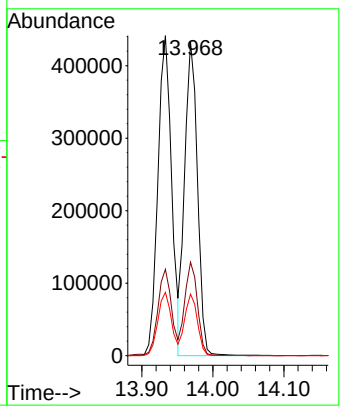




#83
Chrysene
Concen: 45.035 ng
RT: 13.968 min Scan# 2(
Delta R.T. -0.023 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:228 Resp: 54028(

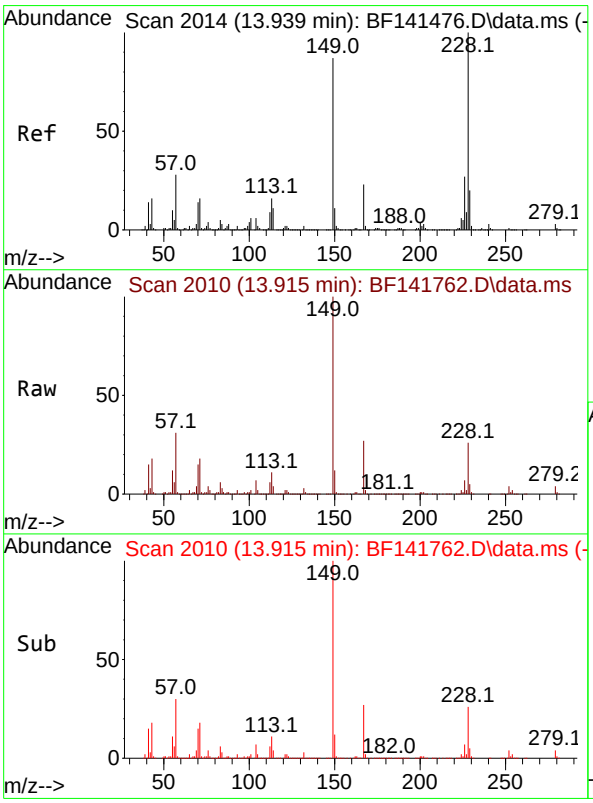
Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.0	36.0
229	19.6	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

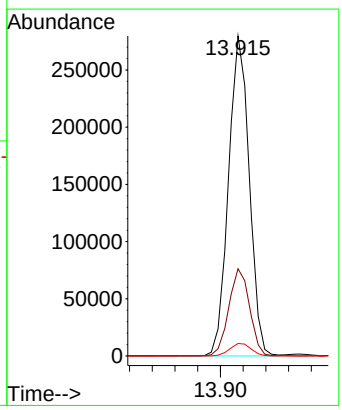
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

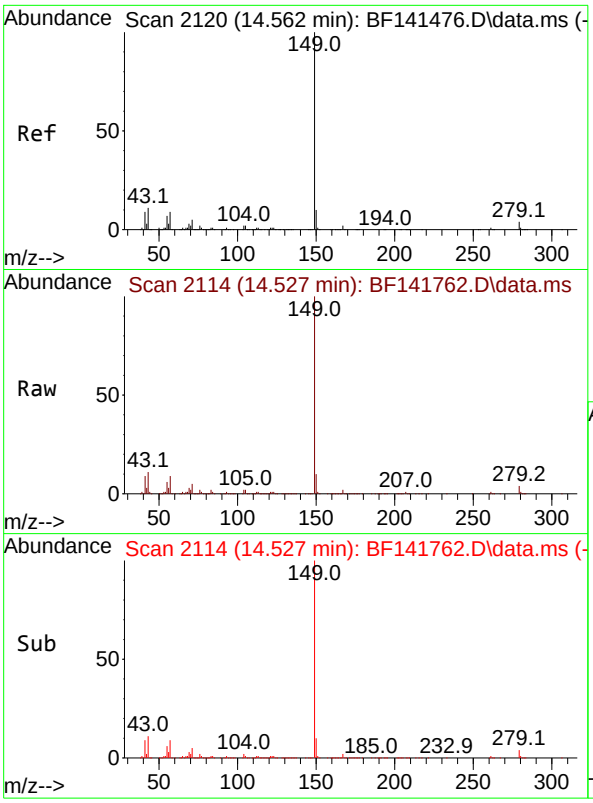


#84
Bis(2-ethylhexyl)phthalate
Concen: 54.495 ng
RT: 13.915 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:149 Resp: 354228

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.4	32.0
279	3.9	3.1	4.7

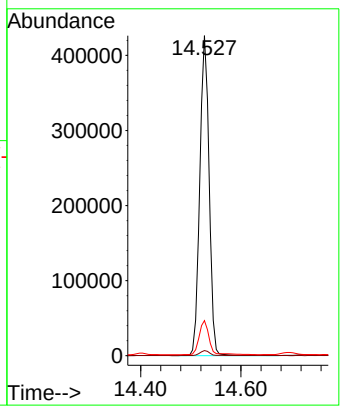




#85
Di-n-octyl phthalate
Concen: 59.320 ng
RT: 14.527 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:149 Resp: 55007

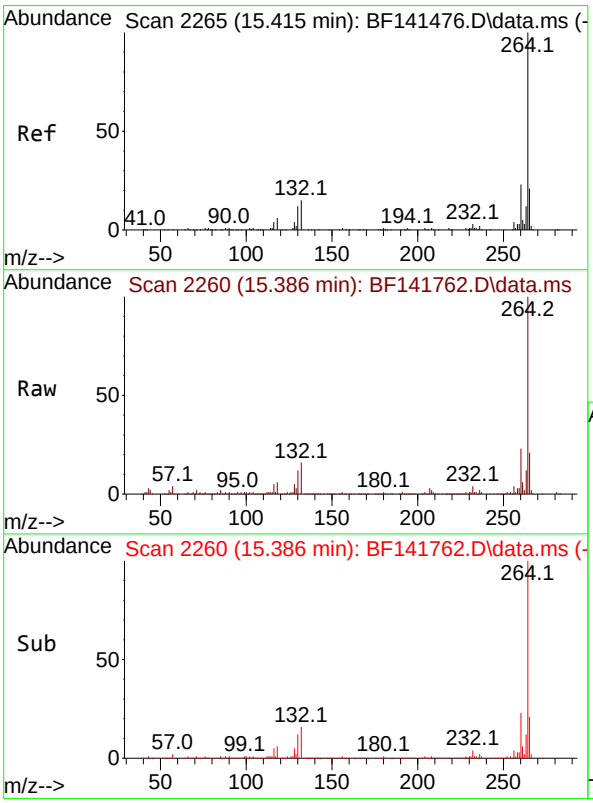
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.4	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

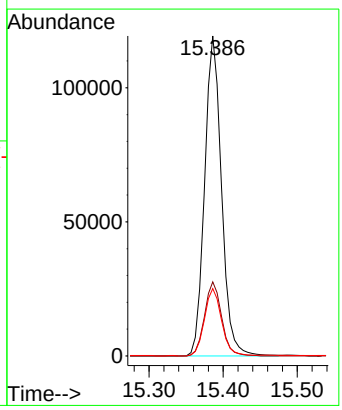
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

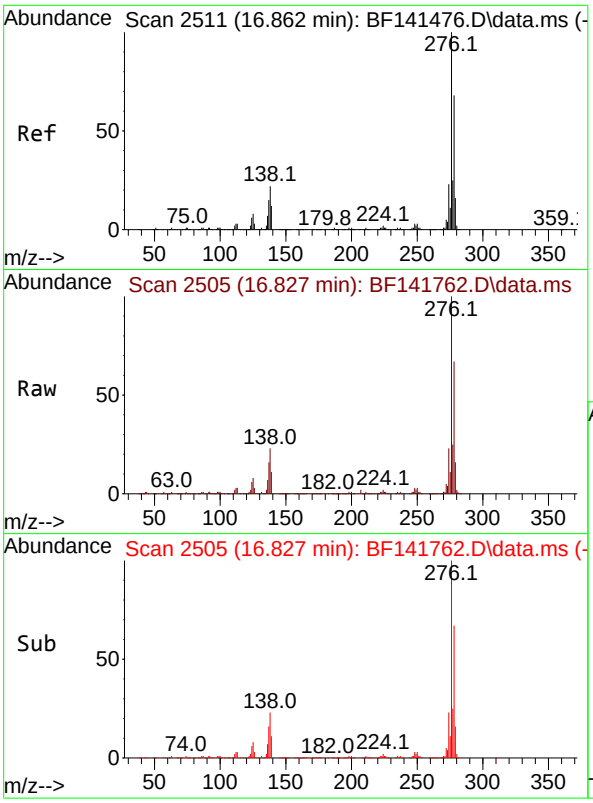


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:264 Resp: 188853

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.1	17.0	25.4

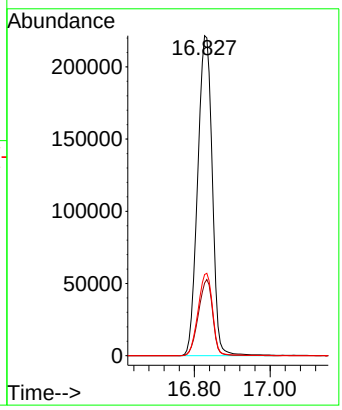




#87
Indeno(1,2,3-cd)pyrene
Concen: 50.769 ng
RT: 16.827 min Scan# 2
Delta R.T. -0.047 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:276 Resp: 59242

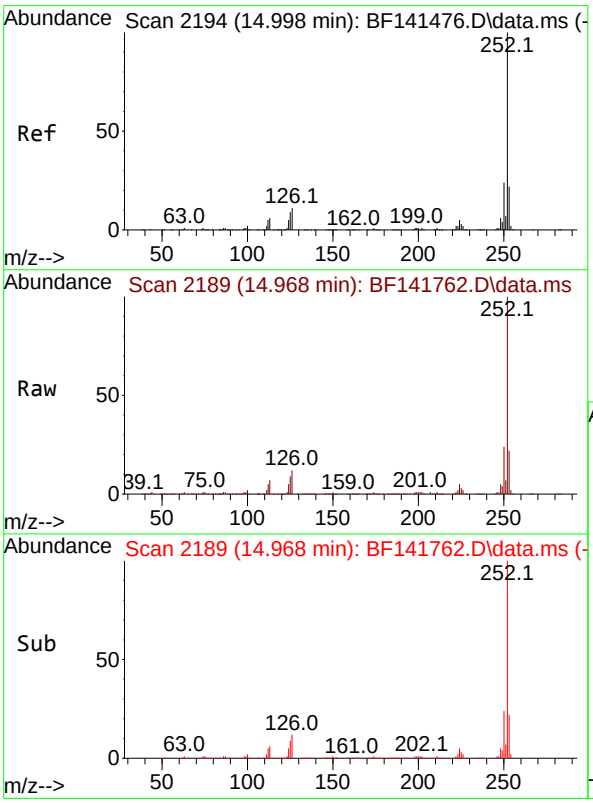
Ion	Ratio	Lower	Upper
276	100		
138	23.1	18.0	27.0
277	25.6	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

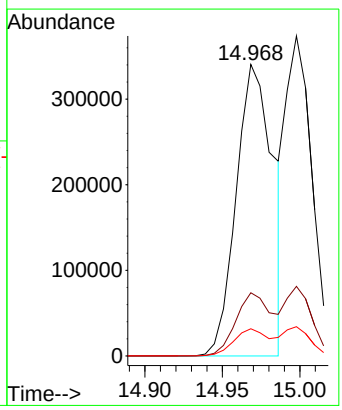
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

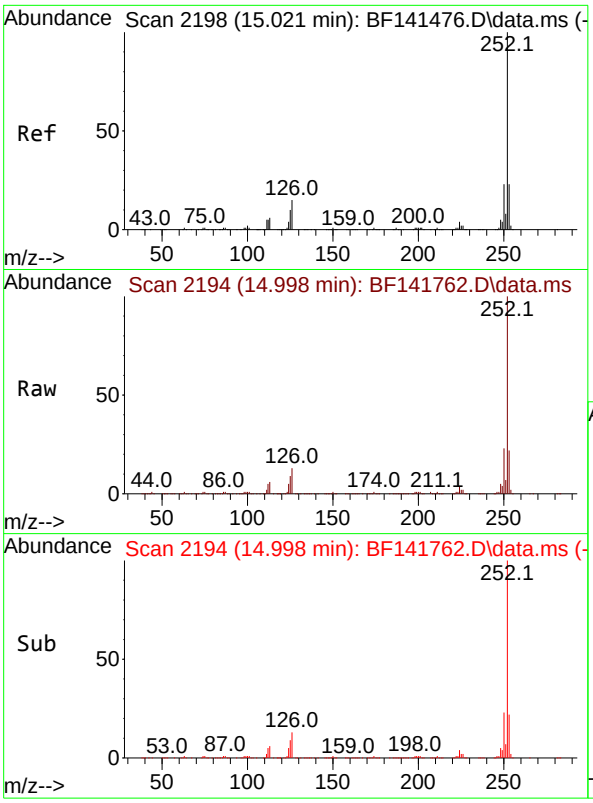


#88
Benzo(b)fluoranthene
Concen: 44.504 ng
RT: 14.968 min Scan# 2189
Delta R.T. -0.035 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:252 Resp: 564333

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	9.4	7.0	10.6





#89
Benzo(k)fluoranthene
Concen: 41.164 ng
RT: 14.998 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

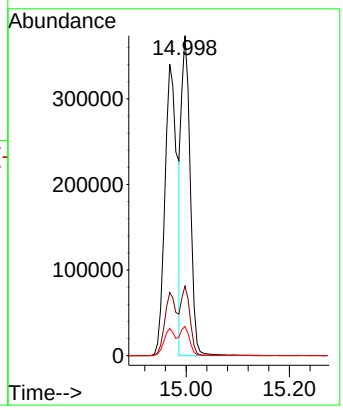
Tgt Ion:252 Resp: 44572

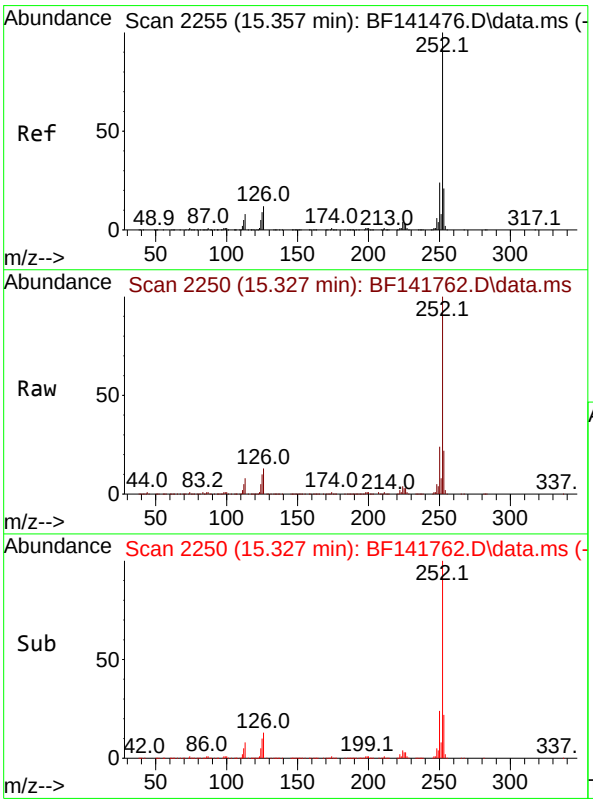
Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.0	27.0
125	9.2	7.4	11.0

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

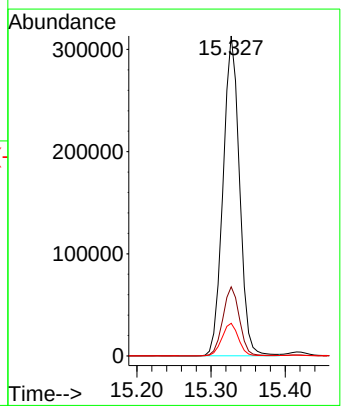


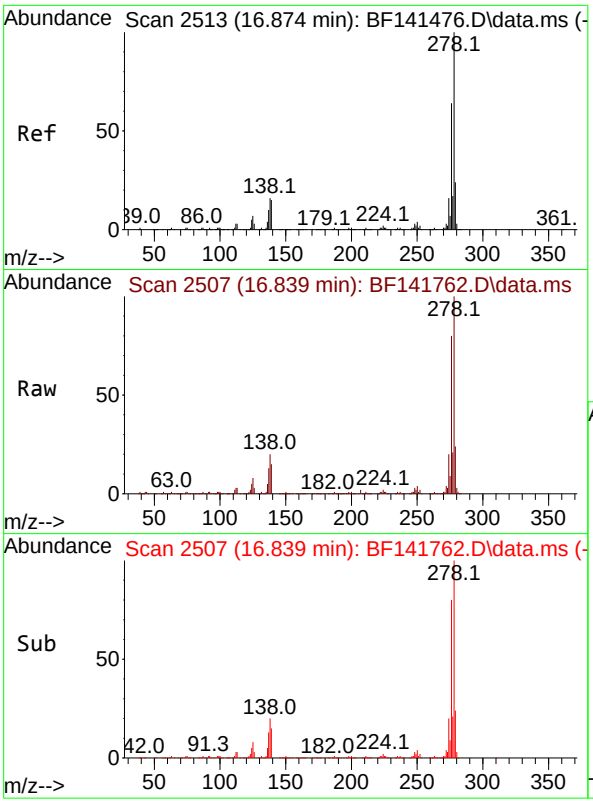


#90
Benzo(a)pyrene
Concen: 47.057 ng
RT: 15.327 min Scan# 2250
Delta R.T. -0.035 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:252 Resp: 482833

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7
125	10.2	7.4	11.2

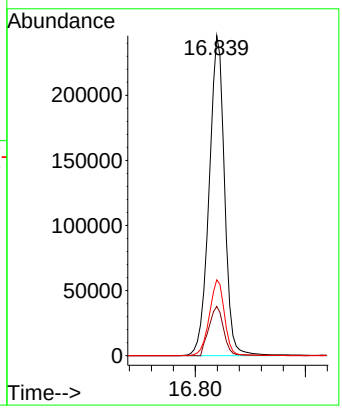




#91
Dibenzo(a,h)anthracene
Concen: 50.605 ng
RT: 16.839 min Scan# 2
Delta R.T. -0.053 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:278 Resp: 47848

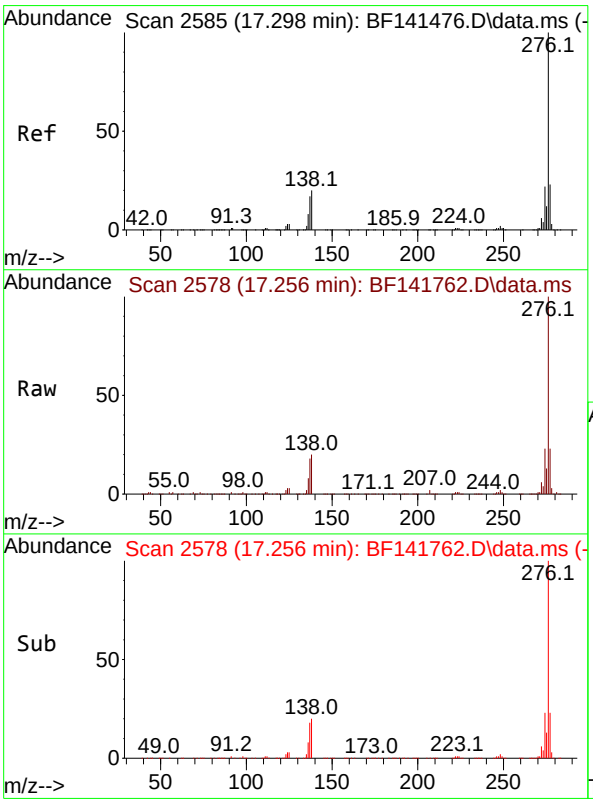
Ion	Ratio	Lower	Upper
278	100		
139	15.4	11.8	17.6
279	23.7	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

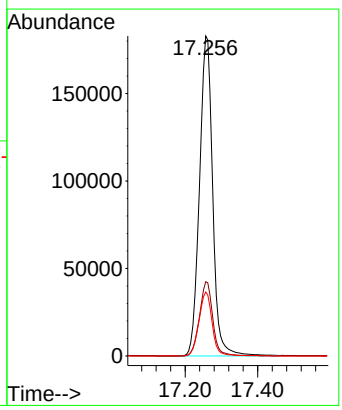
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 46.779 ng
RT: 17.256 min Scan# 2578
Delta R.T. -0.059 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:276 Resp: 462853

Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.6	28.0
138	20.0	15.9	23.9



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1400		260	470	ug/Kg
108-95-2	Phenol	2200		120	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2200		120	240	ug/Kg
95-57-8	2-Chlorophenol	2200		120	240	ug/Kg
95-48-7	2-Methylphenol	2200		110	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2000		130	240	ug/Kg
98-86-2	Acetophenone	2400		120	240	ug/Kg
65794-96-9	3+4-Methylphenols	2200		110	470	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		57.2	110	ug/Kg
67-72-1	Hexachloroethane	2200		120	240	ug/Kg
98-95-3	Nitrobenzene	2100		130	240	ug/Kg
78-59-1	Isophorone	2200		120	240	ug/Kg
88-75-5	2-Nitrophenol	2200		130	240	ug/Kg
105-67-9	2,4-Dimethylphenol	2800		130	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2200		120	240	ug/Kg
120-83-2	2,4-Dichlorophenol	2100		110	240	ug/Kg
91-20-3	Naphthalene	2100		120	240	ug/Kg
106-47-8	4-Chloroaniline	940		120	240	ug/Kg
87-68-3	Hexachlorobutadiene	2200		120	240	ug/Kg
105-60-2	Caprolactam	2200		120	470	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		110	240	ug/Kg
91-57-6	2-Methylnaphthalene	2000		120	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6400	E	220	470	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2100		100	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		110	240	ug/Kg
92-52-4	1,1-Biphenyl	2400		120	240	ug/Kg
91-58-7	2-Chloronaphthalene	2200		120	240	ug/Kg
88-74-4	2-Nitroaniline	2100		130	240	ug/Kg
131-11-3	Dimethylphthalate	2100		120	240	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2200		120	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		120	240	ug/Kg
99-09-2	3-Nitroaniline	1200		130	240	ug/Kg
83-32-9	Acenaphthene	2100		120	240	ug/Kg
51-28-5	2,4-Dinitrophenol	2900		350	470	ug/Kg
100-02-7	4-Nitrophenol	3500		160	470	ug/Kg
132-64-9	Dibenzofuran	2000		120	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		120	240	ug/Kg
84-66-2	Diethylphthalate	2000		110	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		120	240	ug/Kg
86-73-7	Fluorene	2100		120	240	ug/Kg
100-01-6	4-Nitroaniline	2000		150	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		170	470	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2300		120	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2300		110	240	ug/Kg
118-74-1	Hexachlorobenzene	2400		120	240	ug/Kg
1912-24-9	Atrazine	2800		130	240	ug/Kg
87-86-5	Pentachlorophenol	3400		110	470	ug/Kg
85-01-8	Phenanthrene	2200		120	240	ug/Kg
120-12-7	Anthracene	2300		120	240	ug/Kg
86-74-8	Carbazole	2200		110	240	ug/Kg
84-74-2	Di-n-butylphthalate	2200		120	240	ug/Kg
206-44-0	Fluoranthene	2100		120	240	ug/Kg
129-00-0	Pyrene	2100		120	240	ug/Kg
85-68-7	Butylbenzylphthalate	2300		140	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1900		140	470	ug/Kg
56-55-3	Benzo(a)anthracene	2300		110	240	ug/Kg
218-01-9	Chrysene	2100		110	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2700		130	240	ug/Kg
117-84-0	Di-n-octyl phthalate	3200		160	470	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		120	240	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2200		120	240	ug/Kg
50-32-8	Benzo(a)pyrene	2300		130	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2500		110	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2500		120	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2300		110	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2400		120	240	ug/Kg
123-91-1	1,4-Dioxane	2200		160	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		110	240	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		18 - 112	69%	SPK: 150
13127-88-3	Phenol-d6	101		15 - 107	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.9		18 - 107	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.5		20 - 109	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.1		10 - 116	63%	SPK: 150
1718-51-0	Terphenyl-d14	71.3		10 - 105	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	75700	6.781			
1146-65-2	Naphthalene-d8	300000	8.063			
15067-26-2	Acenaphthene-d10	162000	9.816			
1517-22-2	Phenanthrene-d10	254000	11.304			
1719-03-5	Chrysene-d12	172000	13.939			
1520-96-3	Perylene-d12	187000	15.386			

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\BF022525\
Data File : BF141763.D
Acq On : 25 Feb 2025 14:36
Operator : RC/JU
Sample : Q1421-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 25 14:56:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	75675	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	299933	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	161806	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	253973	20.000	ng		-0.01
76) Chrysene-d12	13.939	240	171769	20.000	ng		-0.02
86) Perylene-d12	15.386	264	186973	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	503086	104.223	ng		0.00
7) Phenol-d6	6.428	99	618991	101.458	ng		-0.01
23) Nitrobenzene-d5	7.346	82	390477	67.904	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	152913	94.076	ng		-0.02
45) 2-Fluorobiphenyl	9.134	172	761811	72.536	ng		-0.02
79) Terphenyl-d14	12.886	244	725692	71.322	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.540	88	90202	46.430	ng		96
3) Pyridine	3.269	79	202708	43.847	ng		96
4) n-Nitrosodimethylamine	3.222	42	123575	40.369	ng		90
6) Aniline	6.446	93	205453	35.900	ng	#	82
8) 2-Chlorophenol	6.569	128	242733	46.538	ng		99
9) Benzaldehyde	6.334	77	93929	28.972	ng		97
10) Phenol	6.440	94	292013	45.987	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	219996	46.126	ng		99
12) 1,3-Dichlorobenzene	6.722	146	256275	46.541	ng		96
13) 1,4-Dichlorobenzene	6.798	146	261559	46.492	ng		98
14) 1,2-Dichlorobenzene	6.951	146	248986	47.684	ng		99
15) Benzyl Alcohol	6.928	79	201189	43.003	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.057	45	346162	42.399	ng		69
17) 2-Methylphenol	7.046	107	186708	45.743	ng		96
18) Hexachloroethane	7.287	117	96120	46.165	ng		99
19) n-Nitroso-di-n-propyla...	7.193	70	164417	45.054	ng		95
20) 3+4-Methylphenols	7.204	107	243568	46.956	ng	#	72
22) Acetophenone	7.193	105	370440	49.650	ng		92
24) Nitrobenzene	7.363	77	248969	44.400	ng		99
25) Isophorone	7.604	82	434574	47.396	ng		98
26) 2-Nitrophenol	7.681	139	131754	47.227	ng		94
27) 2,4-Dimethylphenol	7.722	122	189959	58.286	ng		99
28) bis(2-Chloroethoxy)met...	7.816	93	271858	46.272	ng		99
29) 2,4-Dichlorophenol	7.934	162	198750	45.135	ng		100
30) 1,2,4-Trichlorobenzene	8.004	180	218056	45.473	ng		100
31) Naphthalene	8.087	128	695392	44.540	ng		100
32) Benzoic acid	7.845	122	60430	17.851	ng		95
33) 4-Chloroaniline	8.140	127	107639	19.747	ng		97
34) Hexachlorobutadiene	8.198	225	132624	46.070	ng		100
35) Caprolactam	8.504	113	61932m	46.193	ng		
36) 4-Chloro-3-methylphenol	8.634	107	209473	42.944	ng		97
37) 2-Methylnaphthalene	8.775	142	437531	43.065	ng		100
38) 1-Methylnaphthalene	8.875	142	424417	43.132	ng		98
40) 1,2,4,5-Tetrachloroben...	8.940	216	239737	51.212	ng		99
41) Hexachlorocyclopentadiene	8.928	237	211325	135.724	ng		100
43) 2,4,6-Trichlorophenol	9.057	196	135676	44.843	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141763.D
Acq On : 25 Feb 2025 14:36
Operator : RC/JU
Sample : Q1421-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 25 14:56:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	141363	43.112	ng	97
46) 1,1'-Biphenyl	9.239	154	631200	50.317	ng	100
47) 2-Chloronaphthalene	9.263	162	429181	46.266	ng	99
48) 2-Nitroaniline	9.363	65	134953	43.349	ng	96
49) Acenaphthylene	9.675	152	653459	47.361	ng	99
50) Dimethylphthalate	9.539	163	484412	44.099	ng	99
51) 2,6-Dinitrotoluene	9.604	165	108763	45.293	ng	97
52) Acenaphthene	9.851	154	408252	44.012	ng	100
53) 3-Nitroaniline	9.775	138	67035	25.937	ng	97
54) 2,4-Dinitrophenol	9.892	184	87227	61.119	ng	93
55) Dibenzofuran	10.022	168	583197	42.834	ng	99
56) 4-Nitrophenol	9.957	139	140095	73.020	ng	95
57) 2,4-Dinitrotoluene	10.016	165	142466	44.566	ng	97
58) Fluorene	10.363	166	470483	44.692	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.145	232	116359	41.218	ng	96
60) Diethylphthalate	10.239	149	465458	43.068	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	227694	44.958	ng	97
62) 4-Nitroaniline	10.392	138	108386	41.300	ng	96
63) Azobenzene	10.516	77	502797	46.798	ng	94
65) 4,6-Dinitro-2-methylph...	10.422	198	67224	38.104	ng	97
66) n-Nitrosodiphenylamine	10.475	169	400020	49.203	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	139126	49.014	ng	99
68) Hexachlorobenzene	10.916	284	145837	49.895	ng	97
69) Atrazine	11.004	200	144195	59.121	ng	98
70) Pentachlorophenol	11.116	266	133292	71.320	ng	100
71) Phenanthrene	11.328	178	663667	47.472	ng	100
72) Anthracene	11.381	178	677206	48.188	ng	100
73) Carbazole	11.539	167	575834	45.538	ng	99
74) Di-n-butylphthalate	11.863	149	679207	46.518	ng	99
75) Fluoranthene	12.516	202	645460	43.549	ng	100
77) Benzidine	12.639	184	263831	69.645	ng	99
78) Pyrene	12.745	202	649308	44.406	ng	99
80) Butylbenzylphthalate	13.357	149	241762	47.735	ng	99
81) Benzo(a)anthracene	13.933	228	546463	47.859	ng	100
82) 3,3'-Dichlorobenzidine	13.898	252	128432	39.267	ng	97
83) Chrysene	13.969	228	478435	45.380	ng	100
84) Bis(2-ethylhexyl)phtha...	13.916	149	326027	57.076	ng	100
85) Di-n-octyl phthalate	14.527	149	549852	67.475	ng	97
87) Indeno(1,2,3-cd)pyrene	16.827	276	615192	53.250	ng	99
88) Benzo(b)fluoranthene	14.969	252	506088	40.312	ng	99
89) Benzo(k)fluoranthene	14.998	252	505399	47.144	ng	98
90) Benzo(a)pyrene	15.327	252	497890	49.012	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	496693	53.059	ng	98
92) Benzo(g,h,i)perylene	17.257	276	479696	48.968	ng	100

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

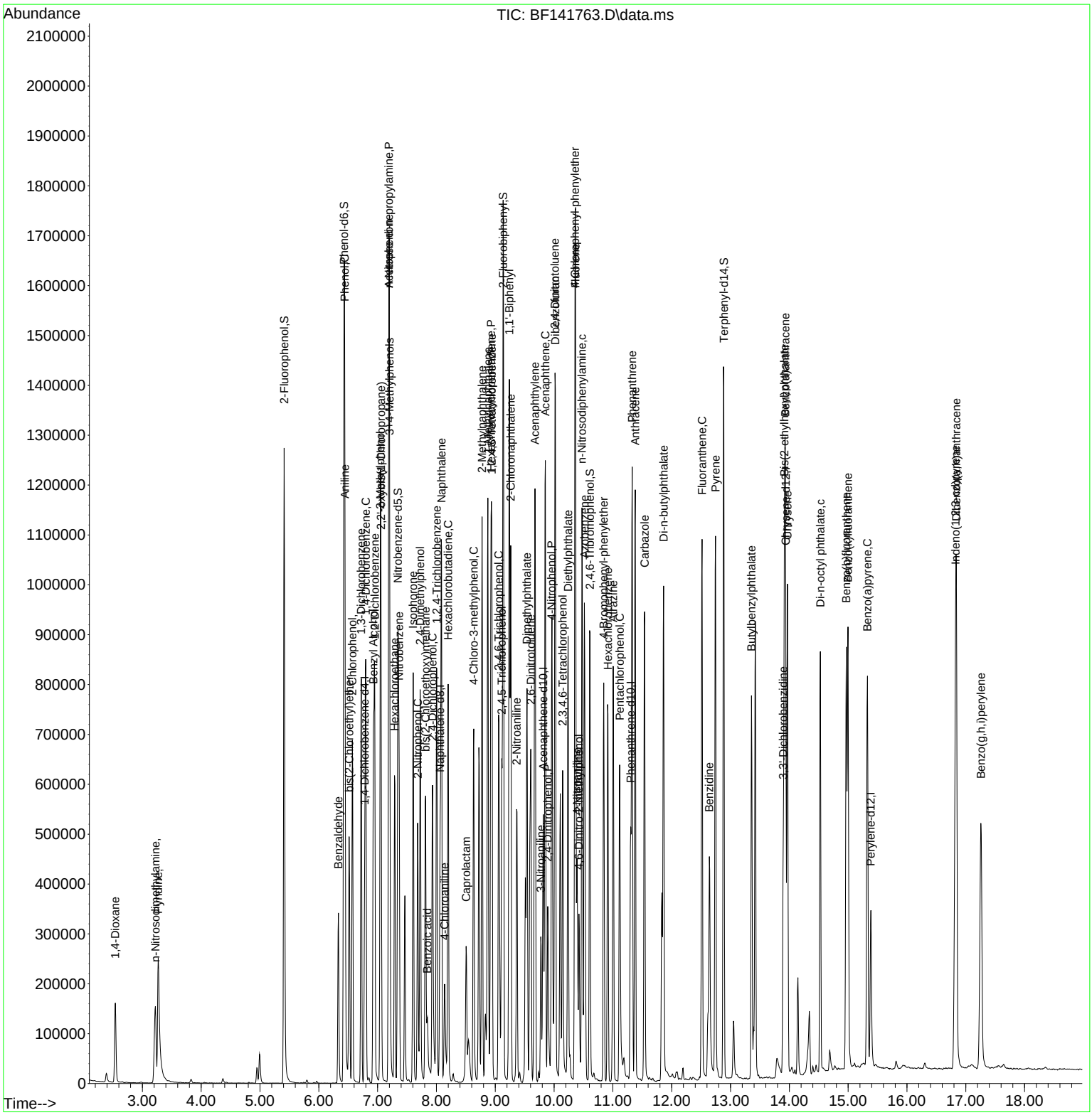
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141763.D
Acq On : 25 Feb 2025 14:36
Operator : RC/JU
Sample : Q1421-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

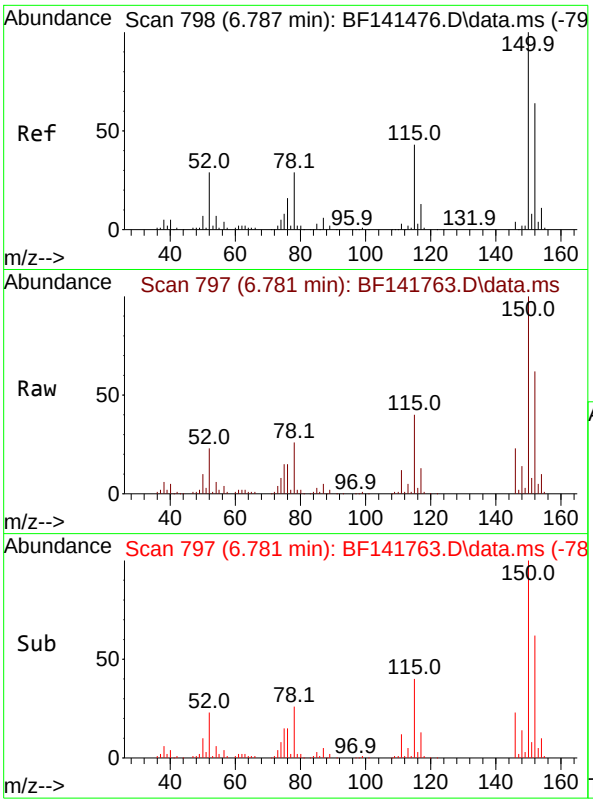
Quant Time: Feb 25 14:56:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

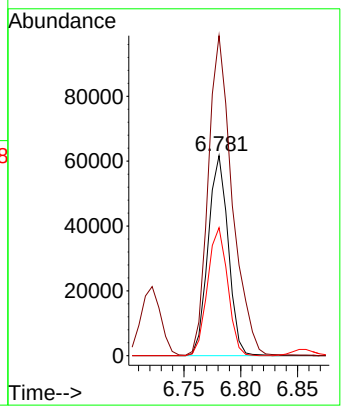




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:152 Resp: 7567

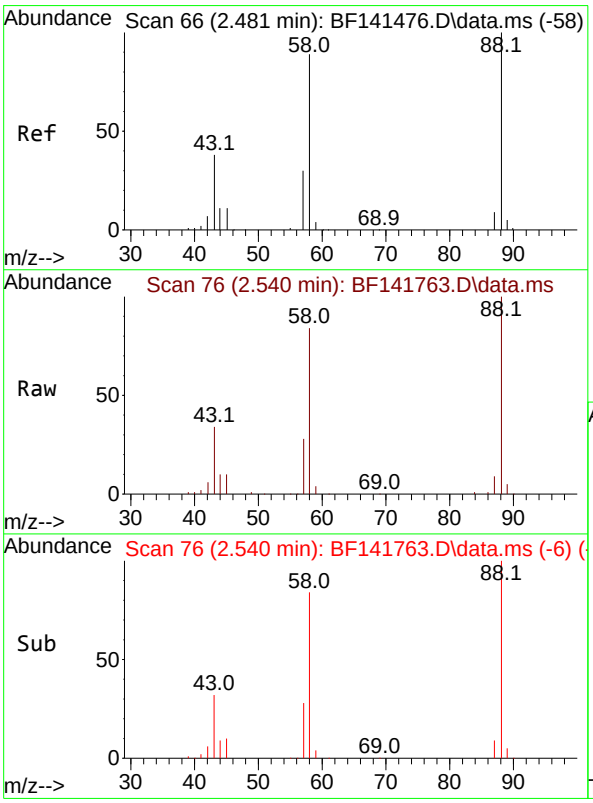
Ion	Ratio	Lower	Upper
152	100		
150	160.0	125.0	187.4
115	64.1	53.6	80.4



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

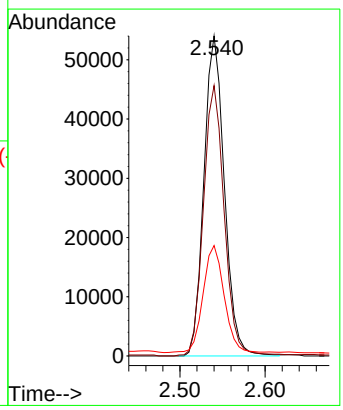
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

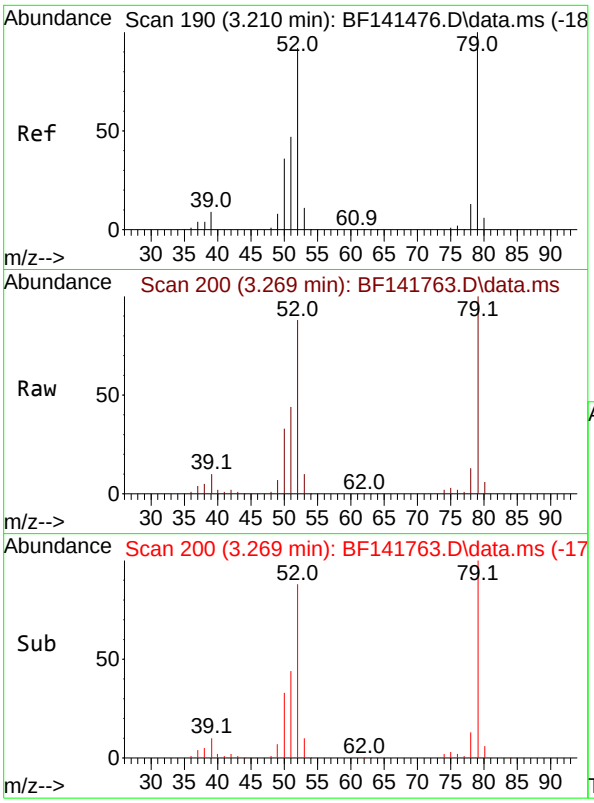


#2
1,4-Dioxane
Concen: 46.430 ng
RT: 2.540 min Scan# 76
Delta R.T. 0.059 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 88 Resp: 90202

Ion	Ratio	Lower	Upper
88	100		
58	86.2	71.1	106.7
43	34.2	30.6	46.0

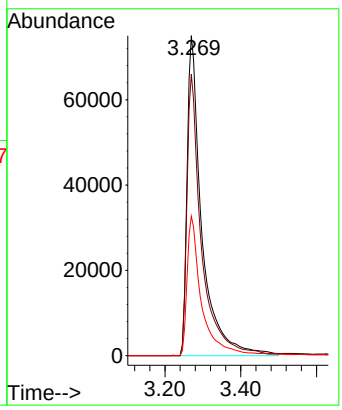




#3
Pyridine
Concen: 43.847 ng
RT: 3.269 min Scan# 2
Delta R.T. 0.053 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 79 Resp: 20270

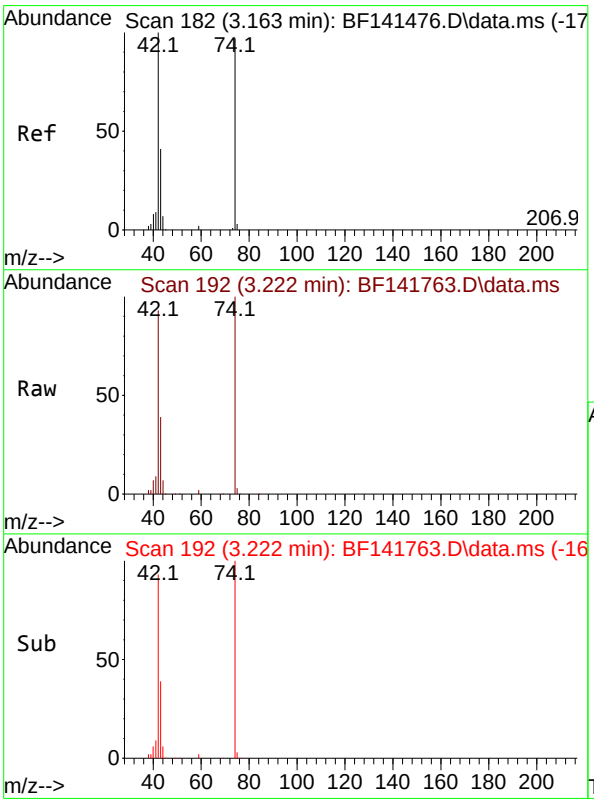
Ion	Ratio	Lower	Upper
79	100		
52	88.0	73.7	110.5
51	43.6	37.5	56.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

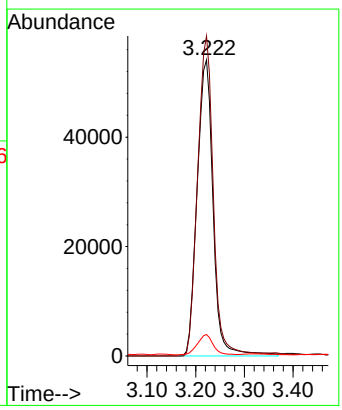
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

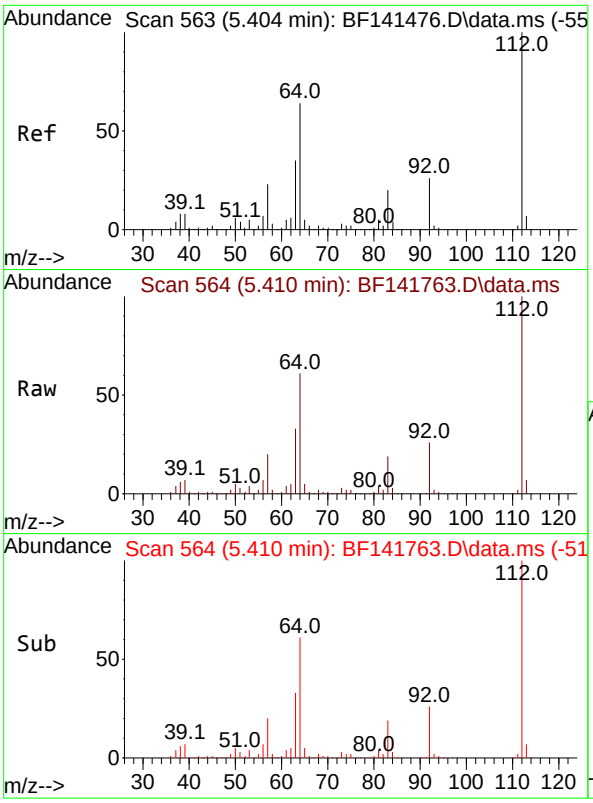


#4
n-Nitrosodimethylamine
Concen: 40.369 ng
RT: 3.222 min Scan# 192
Delta R.T. 0.036 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 42 Resp: 123575

Ion	Ratio	Lower	Upper
42	100		
74	108.1	78.0	117.0
44	7.3	5.4	8.2

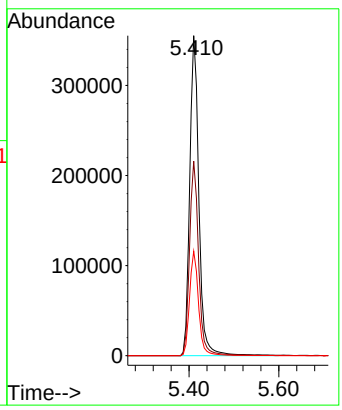




#5
2-Fluorophenol
Concen: 104.223 ng
RT: 5.410 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:112 Resp: 50308

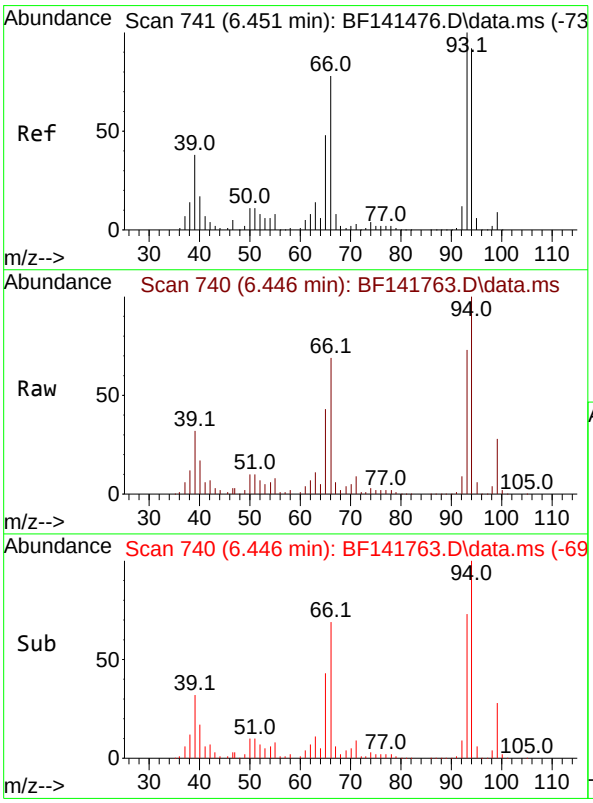
Ion	Ratio	Lower	Upper
112	100		
64	60.8	51.1	76.7
63	32.6	28.4	42.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

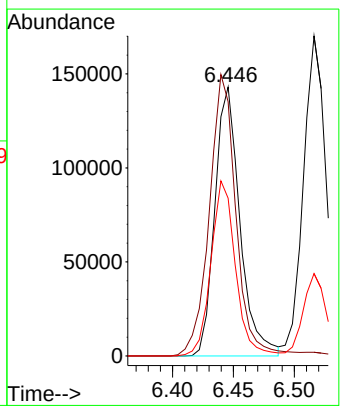
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

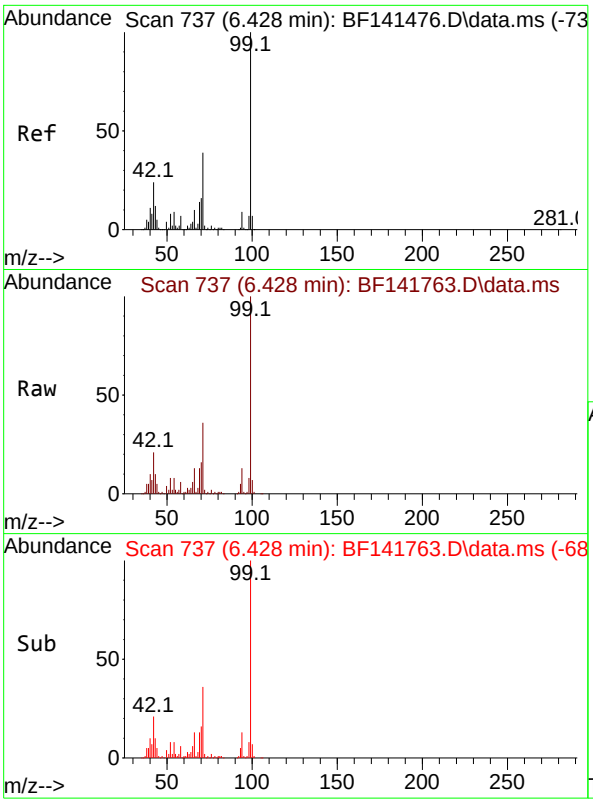


#6
Aniline
Concen: 35.900 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 93 Resp: 205453

Ion	Ratio	Lower	Upper
93	100		
66	94.5	62.6	94.0#
65	58.7	38.3	57.5#





#7
Phenol-d6
Concen: 101.458 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

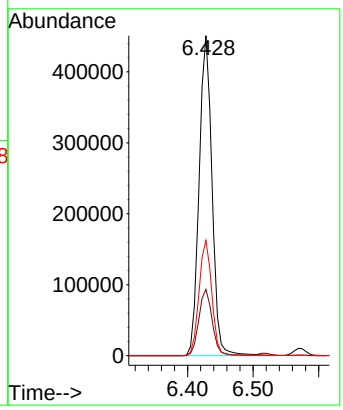
Tgt Ion: 99 Resp: 61899

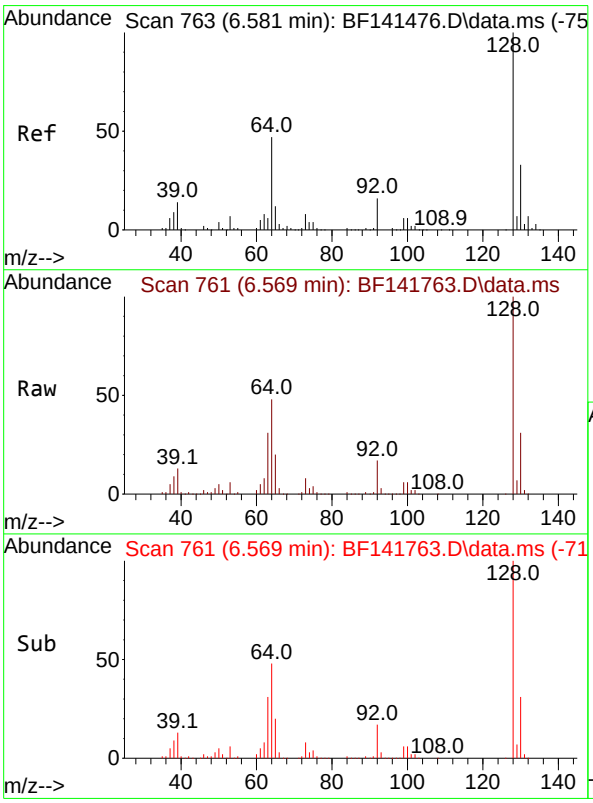
Ion	Ratio	Lower	Upper
99	100		
42	20.7	19.1	28.7
71	36.0	31.1	46.7

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

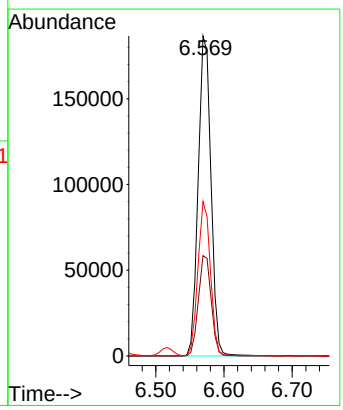


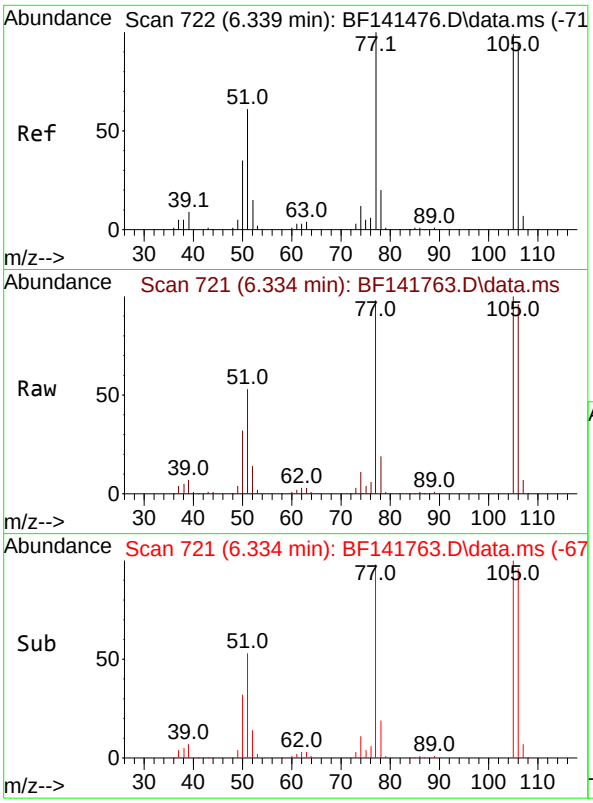


#8
2-Chlorophenol
Concen: 46.538 ng
RT: 6.569 min Scan# 761
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:128 Resp: 242733

Ion	Ratio	Lower	Upper
128	100		
130	31.3	12.7	52.7
64	48.3	28.3	68.3

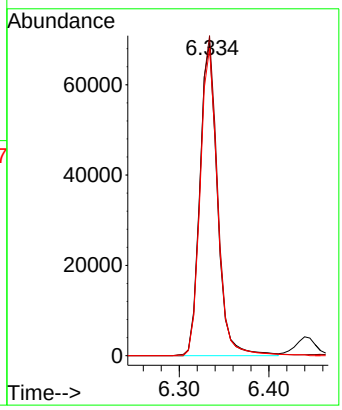




#9
Benzaldehyde
Concen: 28.972 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 77 Resp: 9392

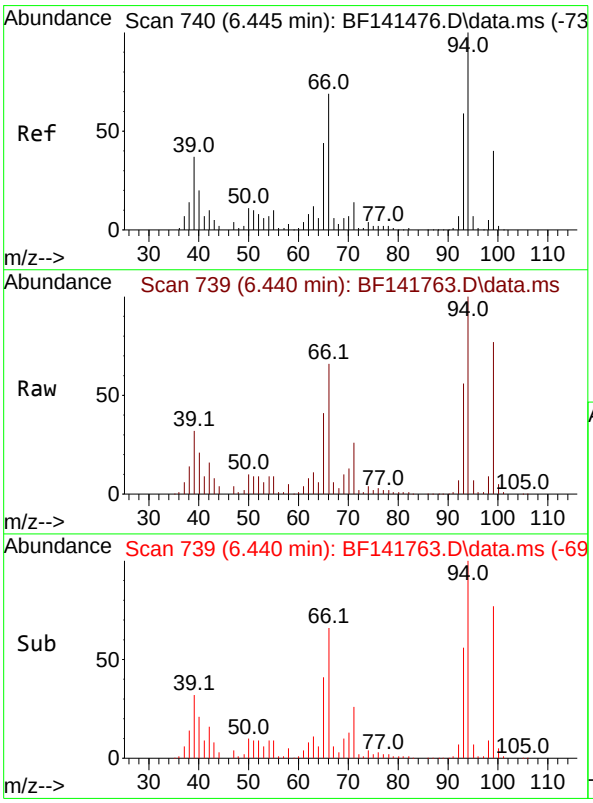
Ion	Ratio	Lower	Upper
77	100		
105	102.5	79.4	119.4
106	98.4	75.1	115.1



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

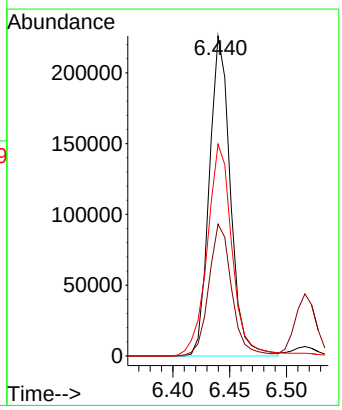
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

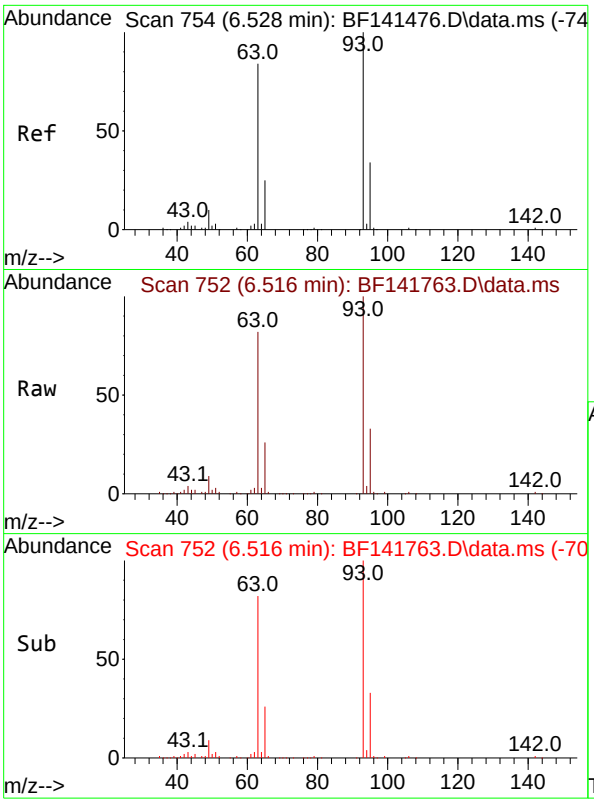


#10
Phenol
Concen: 45.987 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 94 Resp: 292013

Ion	Ratio	Lower	Upper
94	100		
65	41.2	23.7	63.7
66	66.2	49.3	89.3

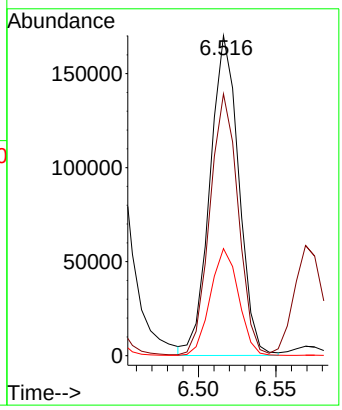




#11
bis(2-Chloroethyl)ether
Concen: 46.126 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 93 Resp: 21999

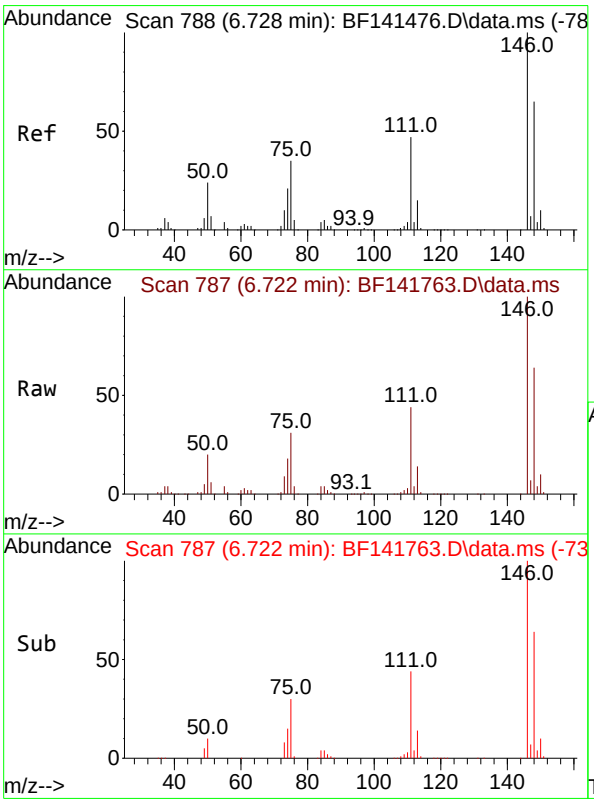
Ion	Ratio	Lower	Upper
93	100		
63	81.8	62.0	102.0
95	33.5	12.6	52.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

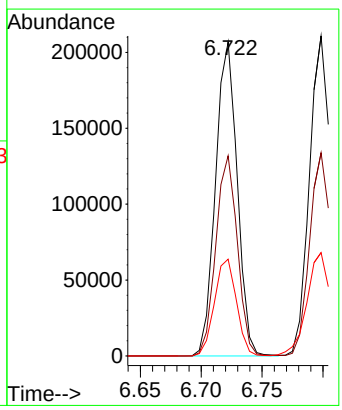
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

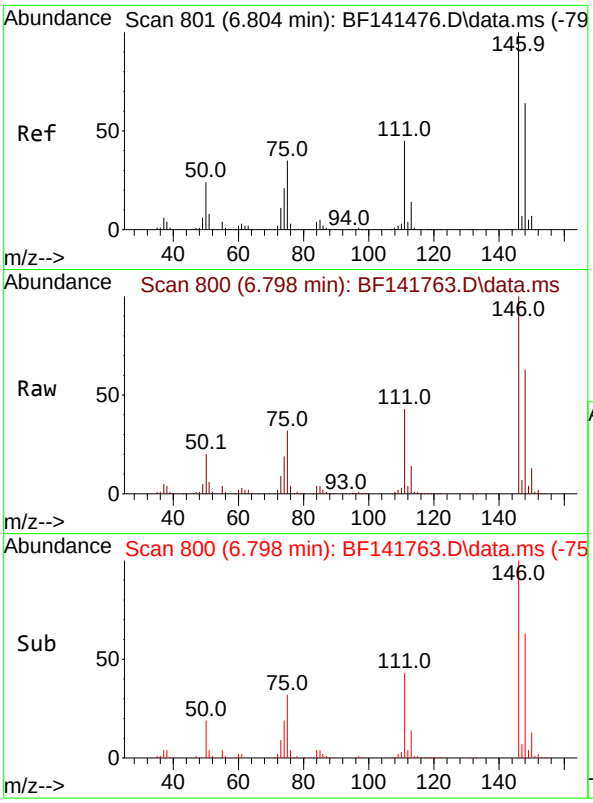


#12
1,3-Dichlorobenzene
Concen: 46.541 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:146 Resp: 256275

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.9	77.9
75	30.8	28.2	42.2

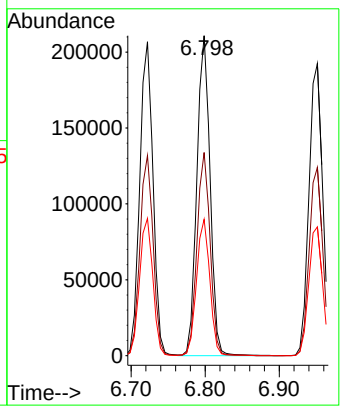




#13
1,4-Dichlorobenzene
Concen: 46.492 ng
RT: 6.798 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:146 Resp: 26155

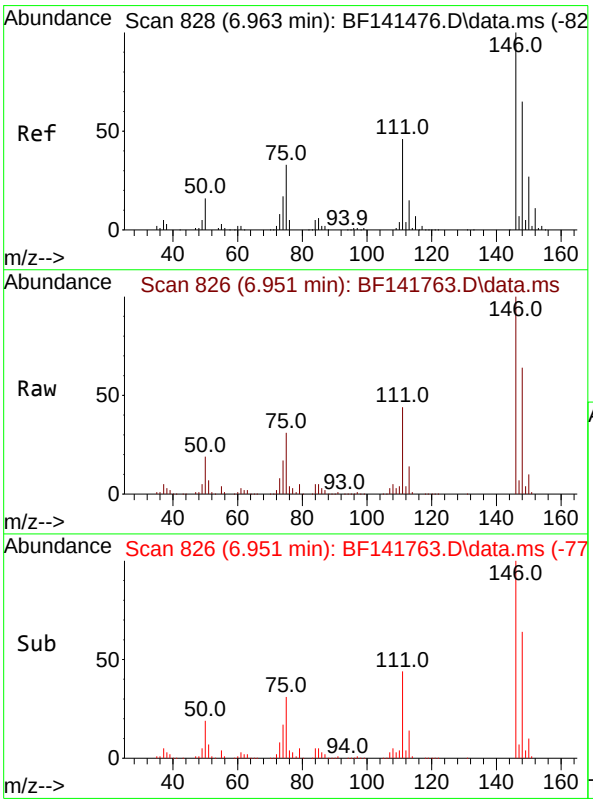
Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.9	76.3
111	42.6	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

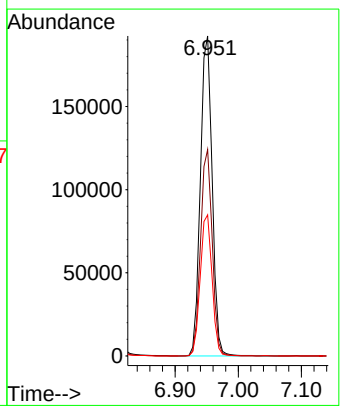
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

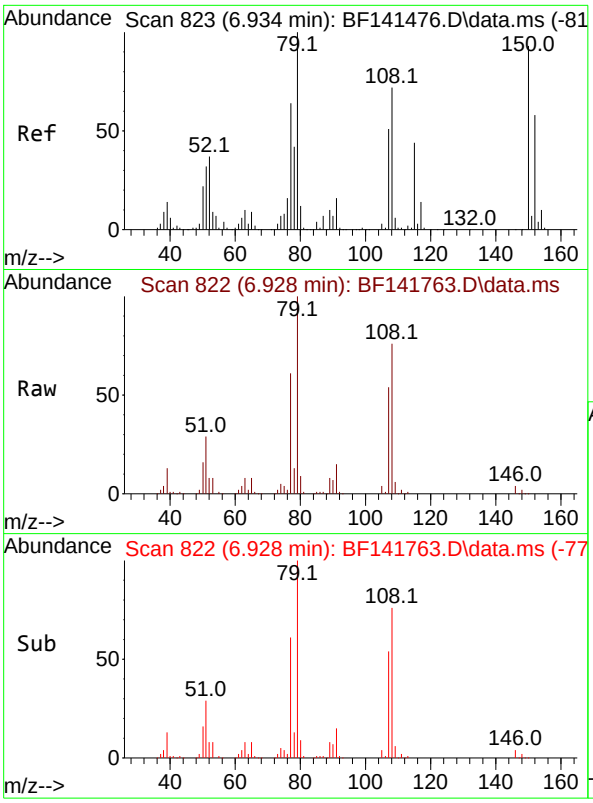


#14
1,2-Dichlorobenzene
Concen: 47.684 ng
RT: 6.951 min Scan# 826
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:146 Resp: 248986

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.8	77.6
111	44.1	37.0	55.4





#15
Benzyl Alcohol
Concen: 43.003 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

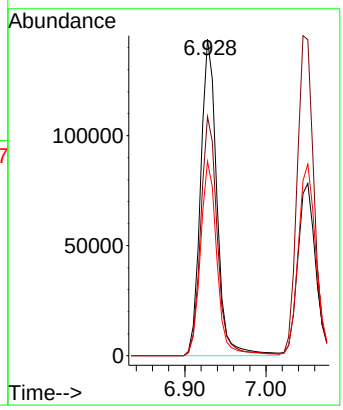
Tgt Ion: 79 Resp: 20118

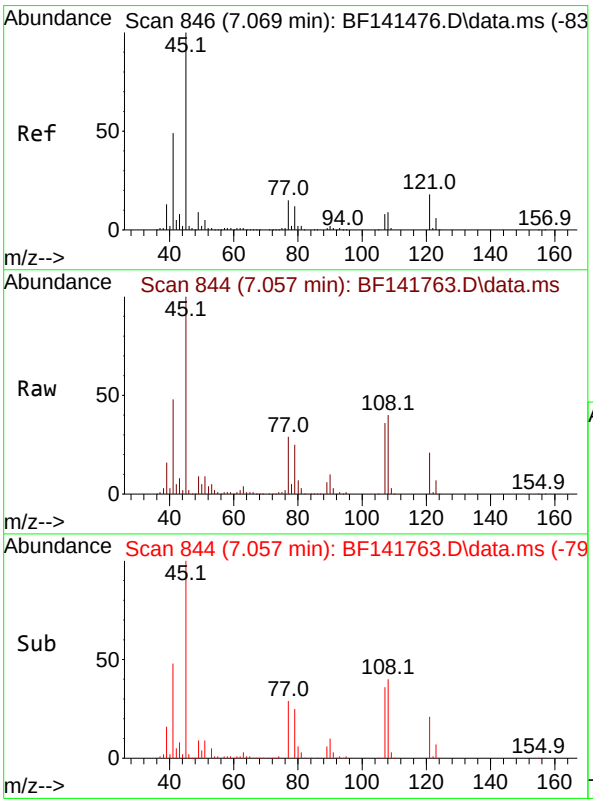
Ion	Ratio	Lower	Upper
79	100		
108	75.6	57.4	86.2
77	61.4	50.9	76.3

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

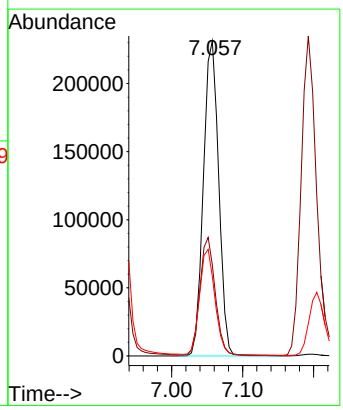


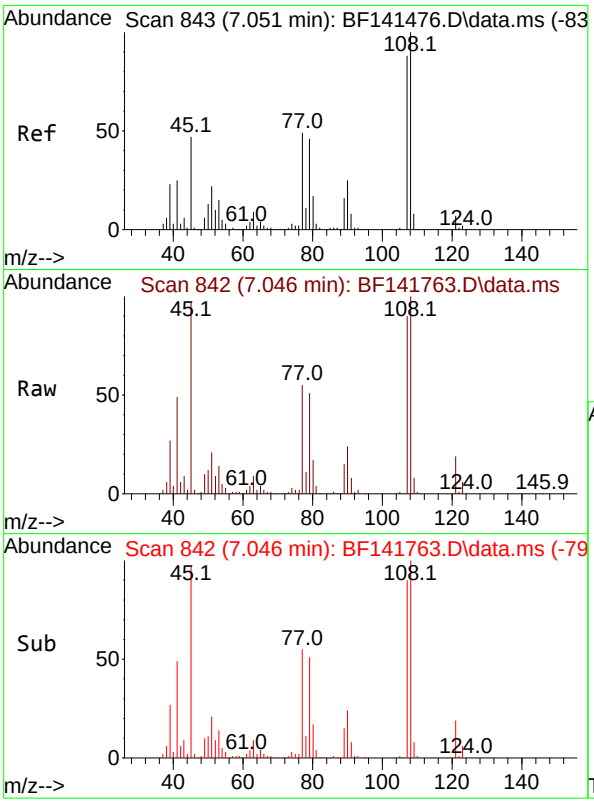


#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.399 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 45 Resp: 346162

Ion	Ratio	Lower	Upper
45	100		
77	28.9	0.0	35.8
79	25.2	0.0	32.7

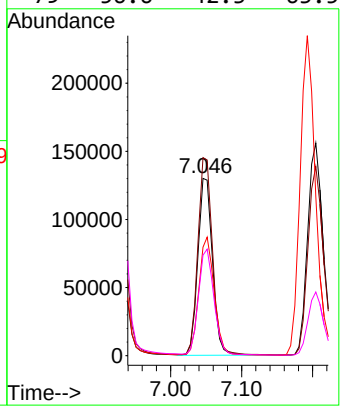




#17
2-Methylphenol
Concen: 45.743 ng
RT: 7.046 min Scan# 84
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:107 Resp: 18670

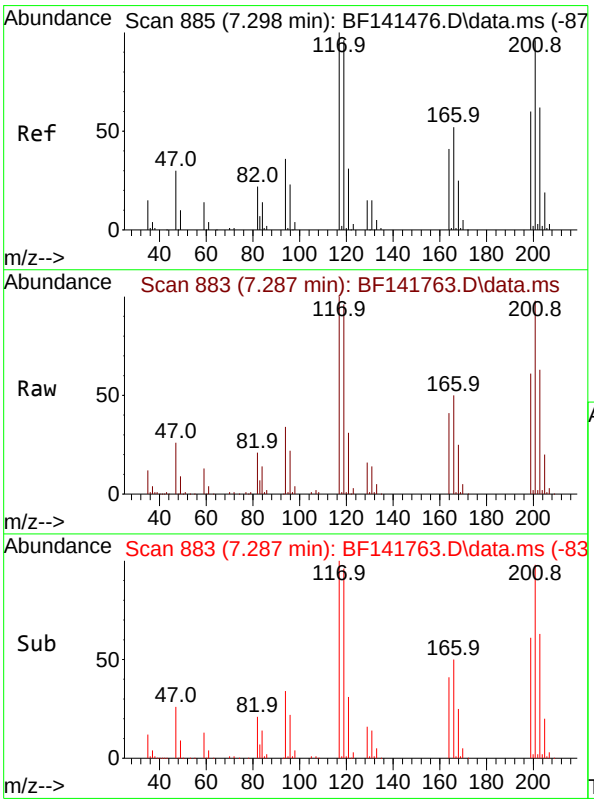
Ion	Ratio	Lower	Upper
107	100		
108	111.7	90.6	136.0
77	61.2	44.4	66.6
79	56.6	42.3	63.5



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

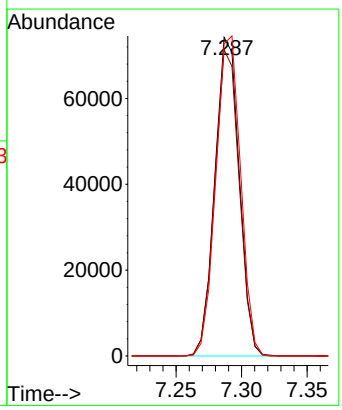
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

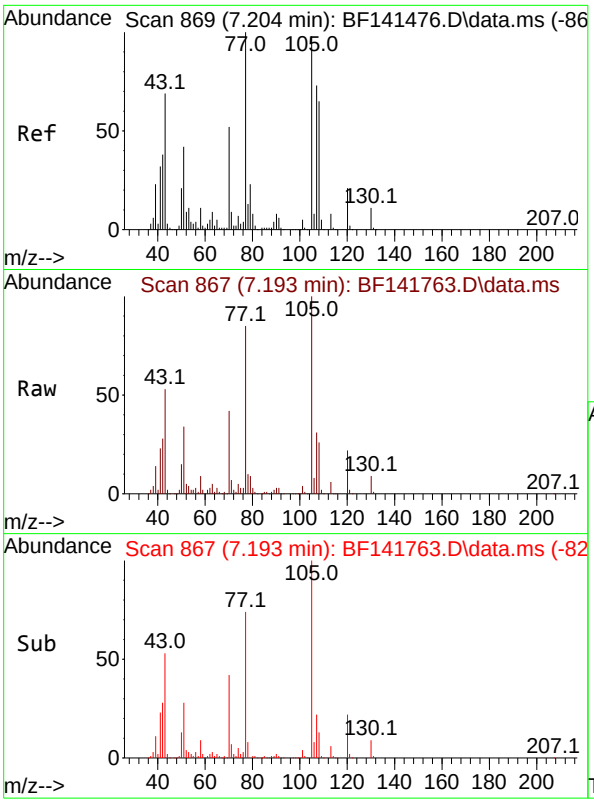


#18
Hexachloroethane
Concen: 46.165 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:117 Resp: 96120

Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.5	114.7
201	98.0	76.7	115.1

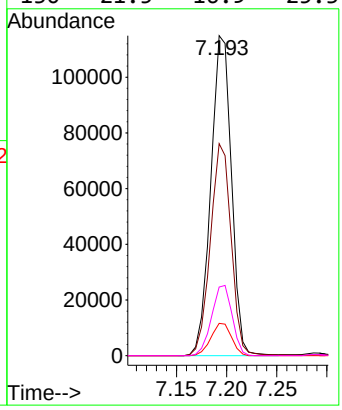




#19
n-Nitroso-di-n-propylamine
Concen: 45.054 ng
RT: 7.193 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 70 Resp: 16441

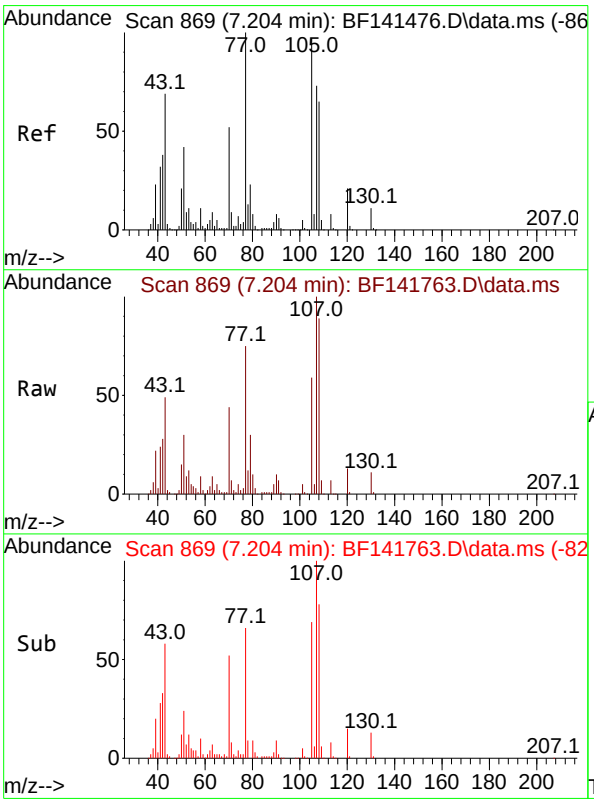
Ion	Ratio	Lower	Upper
70	100		
42	66.2	57.4	86.2
101	10.1	8.0	12.0
130	21.5	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

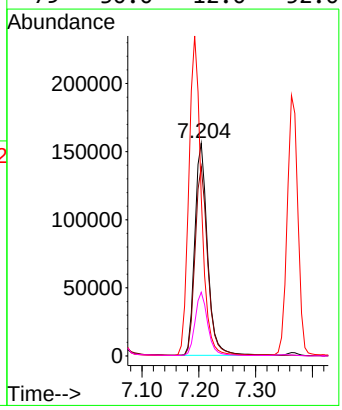
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

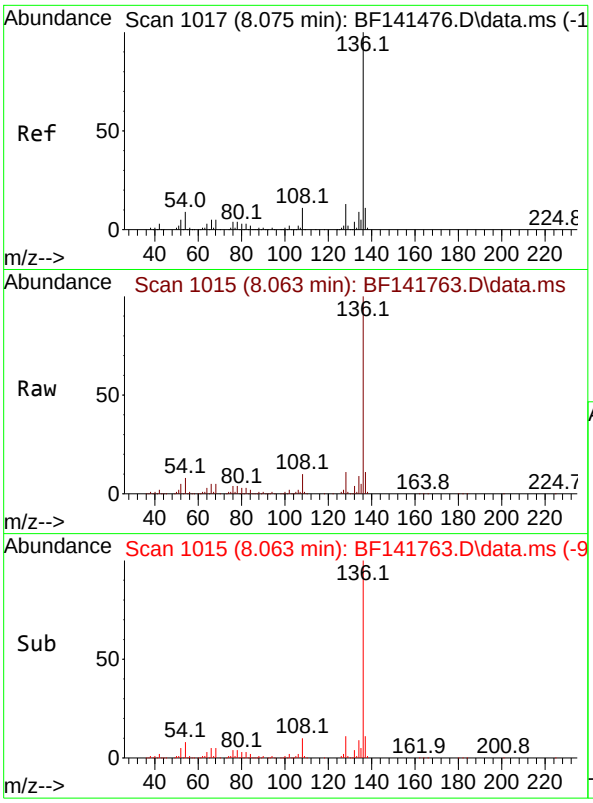


#20
3+4-Methylphenols
Concen: 46.956 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:107 Resp: 243568

Ion	Ratio	Lower	Upper
107	100		
108	89.0	68.5	108.5
77	75.0	116.5	156.5#
79	30.0	12.0	52.0

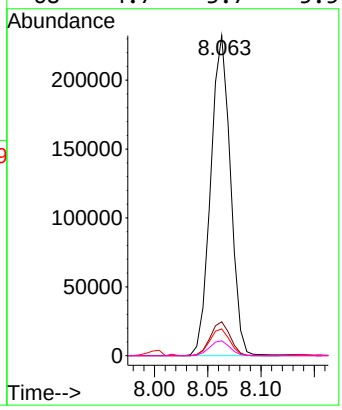




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:136 Resp: 29993

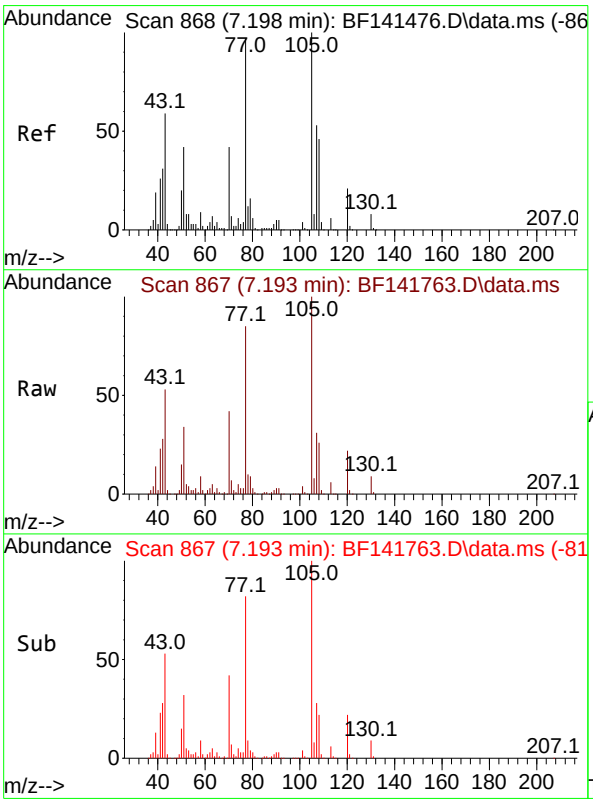
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	8.4	7.2	10.8
68	4.7	3.7	5.5



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

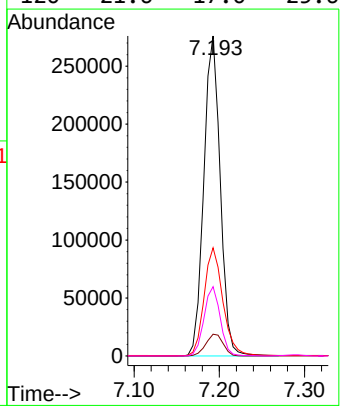
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

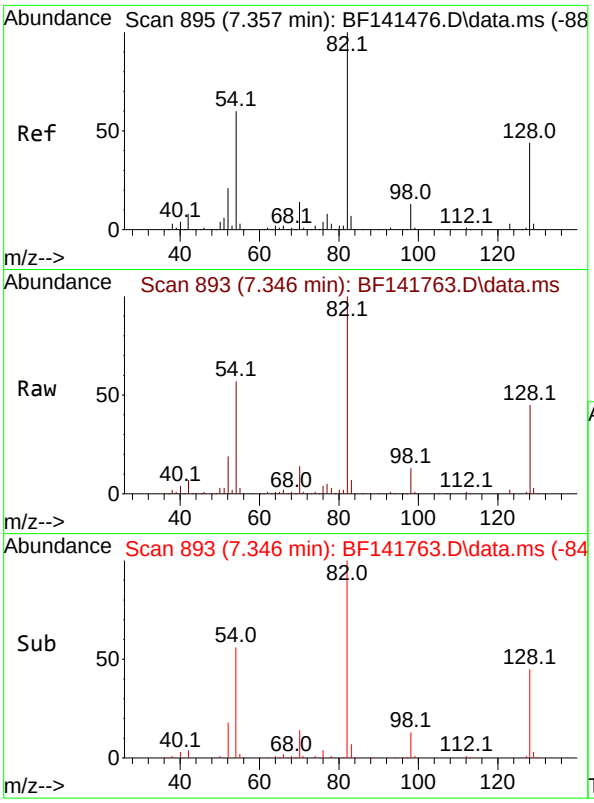


#22
Acetophenone
Concen: 49.650 ng
RT: 7.193 min Scan# 867
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:105 Resp: 370440

Ion	Ratio	Lower	Upper
105	100		
71	6.8	5.7	8.5
51	33.8	33.7	50.5
120	21.6	17.0	25.6

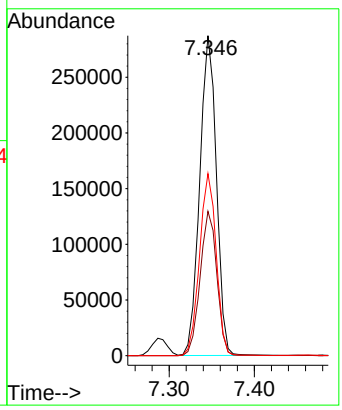




#23
Nitrobenzene-d5
Concen: 67.904 ng
RT: 7.346 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 82 Resp: 39047

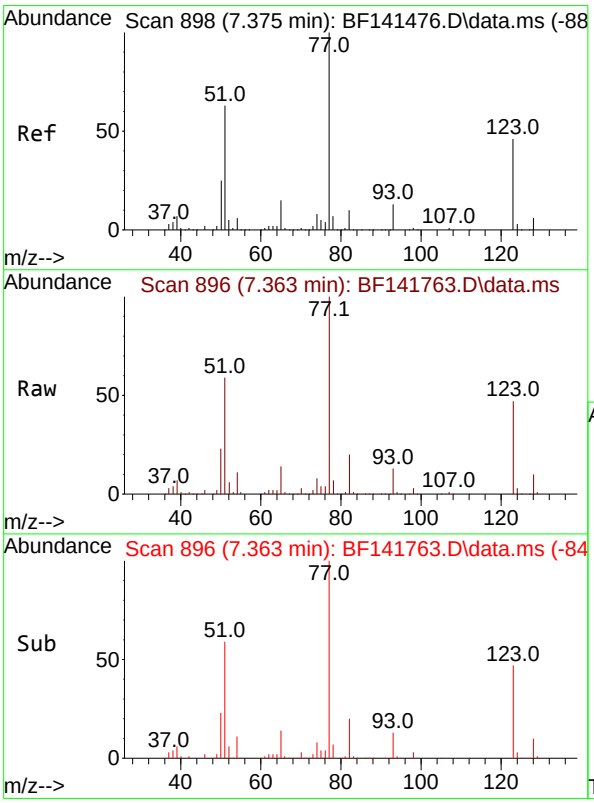
Ion	Ratio	Lower	Upper
82	100		
128	45.1	34.8	52.2
54	56.9	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

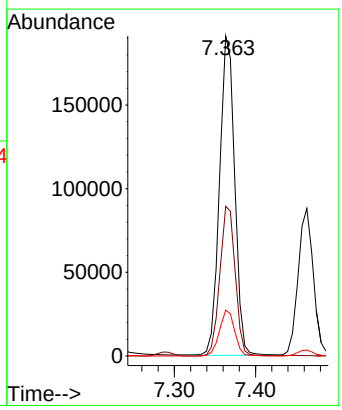
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

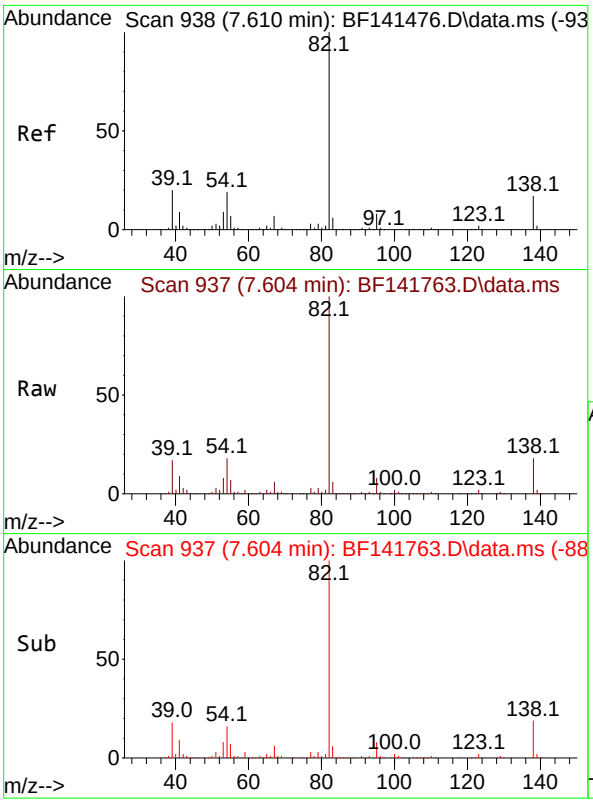


#24
Nitrobenzene
Concen: 44.400 ng
RT: 7.363 min Scan# 896
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 77 Resp: 248969

Ion	Ratio	Lower	Upper
77	100		
123	46.8	36.9	55.3
65	14.3	11.9	17.9

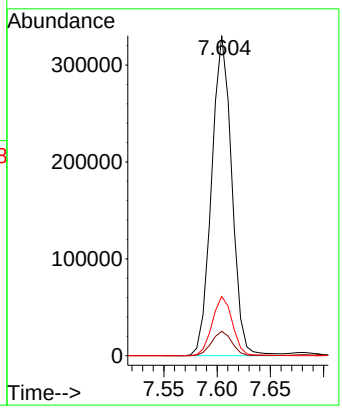




#25
Isophorone
Concen: 47.396 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 82 Resp: 43457

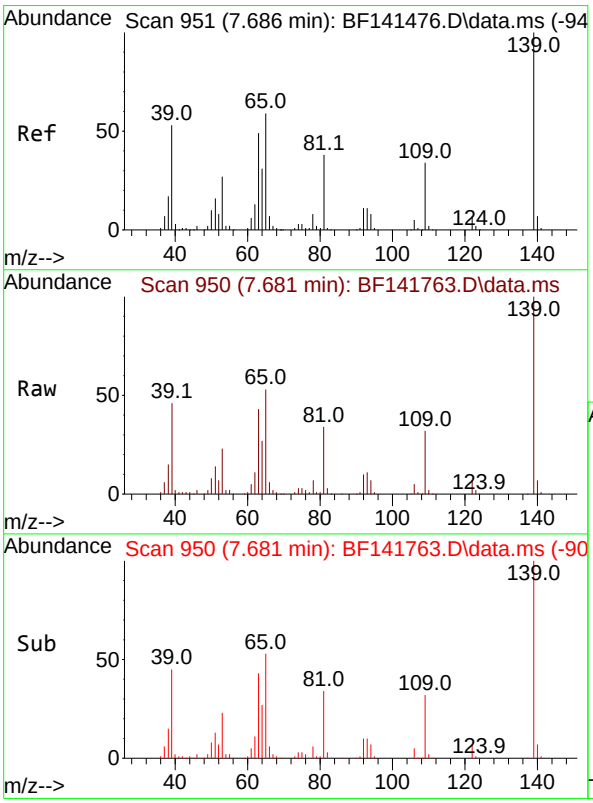
Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.4	9.6
138	18.5	13.9	20.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

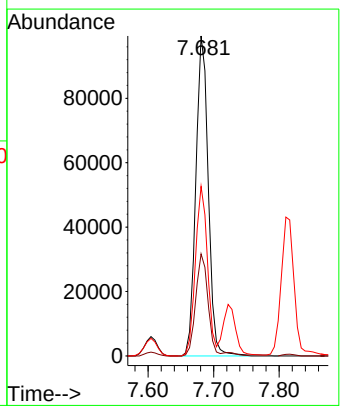
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

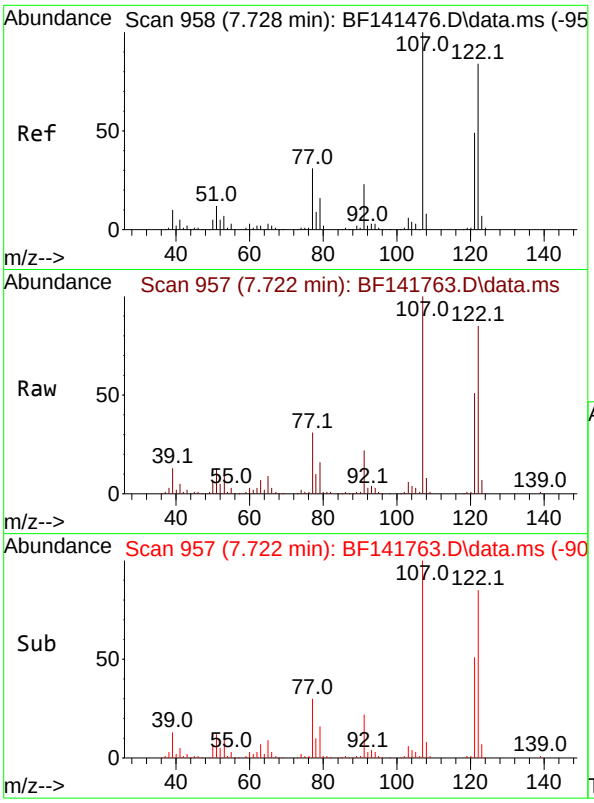


#26
2-Nitrophenol
Concen: 47.227 ng
RT: 7.681 min Scan# 950
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:139 Resp: 131754

Ion	Ratio	Lower	Upper
139	100		
109	31.9	27.0	40.6
65	53.0	47.1	70.7

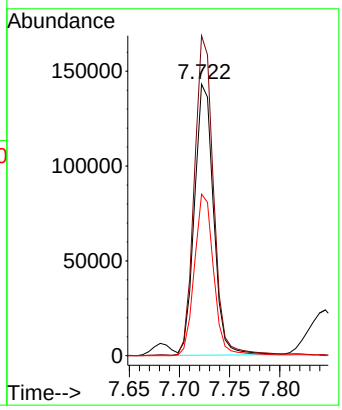




#27
2,4-Dimethylphenol
Concen: 58.286 ng
RT: 7.722 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:122 Resp: 18995

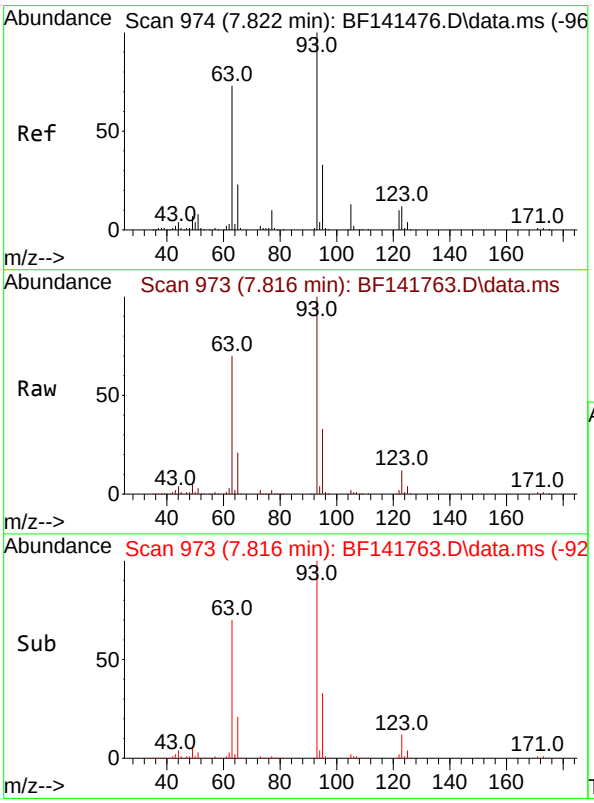
Ion	Ratio	Lower	Upper
122	100		
107	117.9	94.3	141.5
121	59.5	46.0	69.0



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

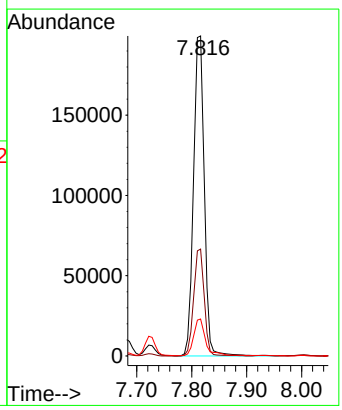
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

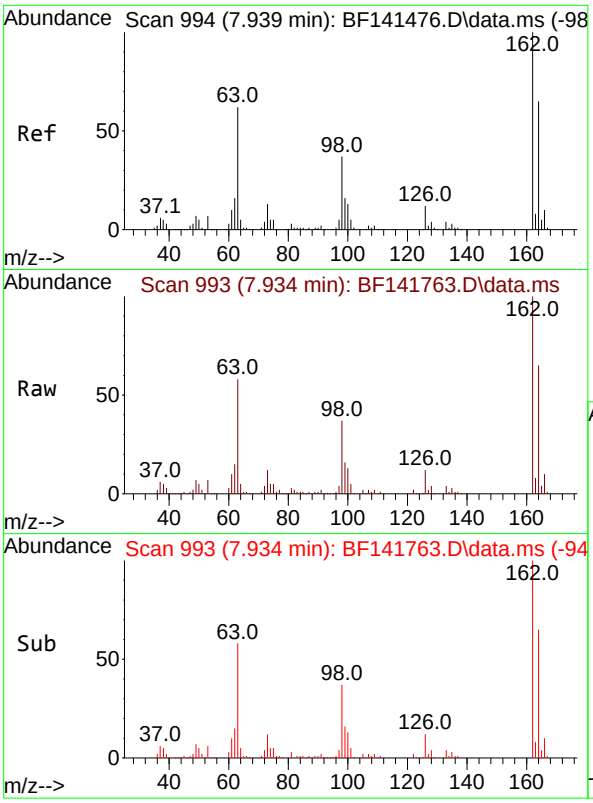


#28
bis(2-Chloroethoxy)methane
Concen: 46.272 ng
RT: 7.816 min Scan# 973
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 93 Resp: 271858

Ion	Ratio	Lower	Upper
93	100		
95	33.4	26.1	39.1
123	11.6	9.5	14.3

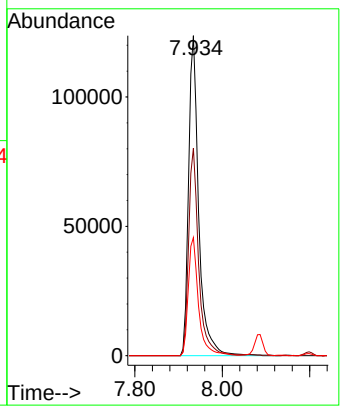




#29
2,4-Dichlorophenol
Concen: 45.135 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:162 Resp: 19875

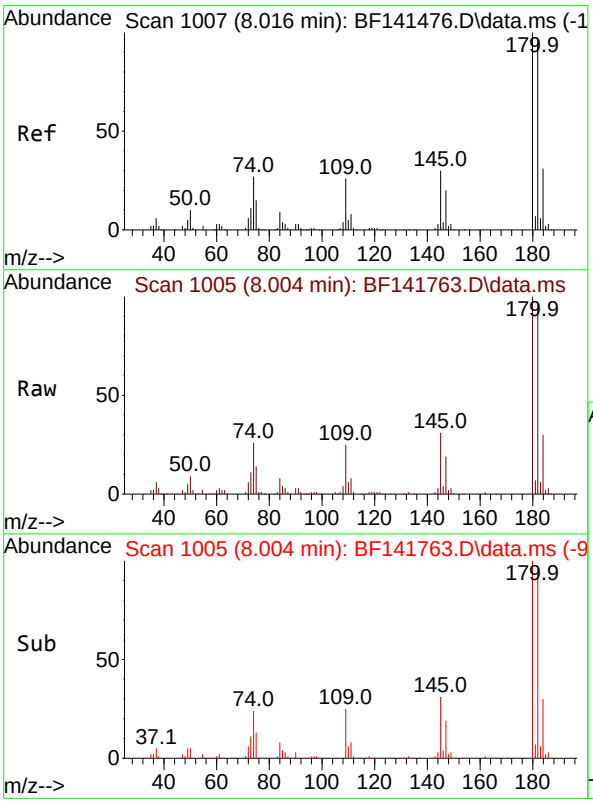
Ion	Ratio	Lower	Upper
162	100		
164	64.8	44.6	84.6
98	36.9	17.2	57.2



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

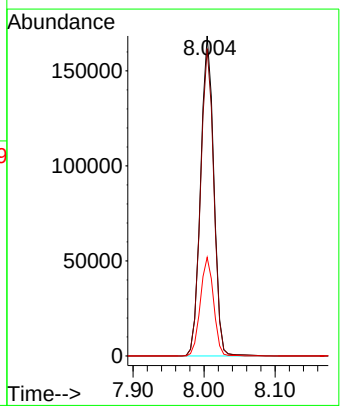
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

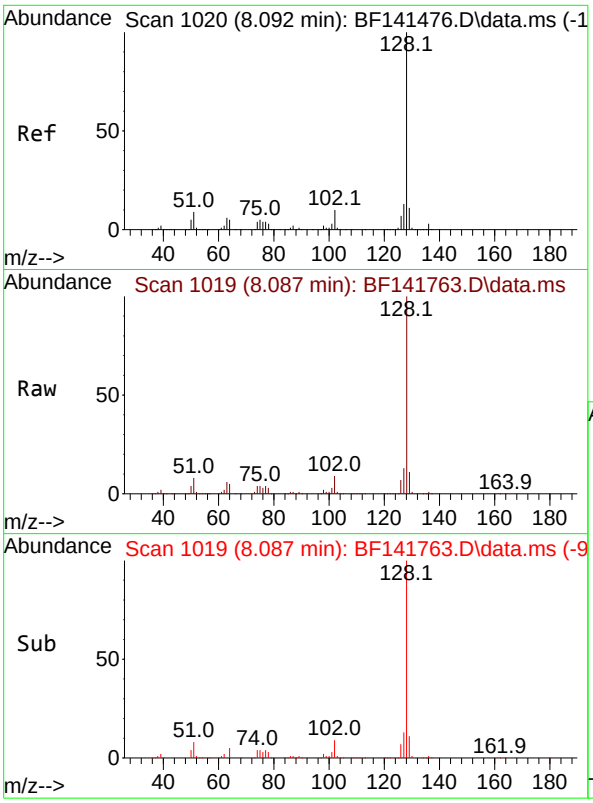


#30
1,2,4-Trichlorobenzene
Concen: 45.473 ng
RT: 8.004 min Scan# 1005
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:180 Resp: 218056

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
145	30.8	24.2	36.4





#31
Naphthalene
Concen: 44.540 ng
RT: 8.087 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

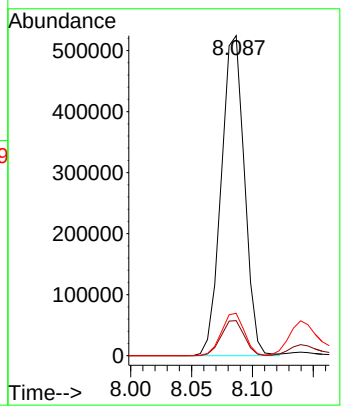
Tgt Ion:128 Resp: 69539

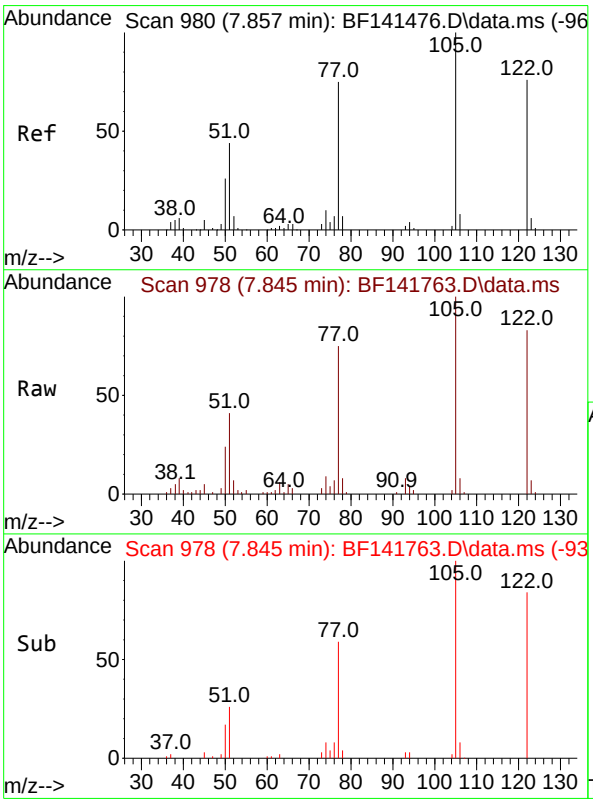
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.3	10.7	16.1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

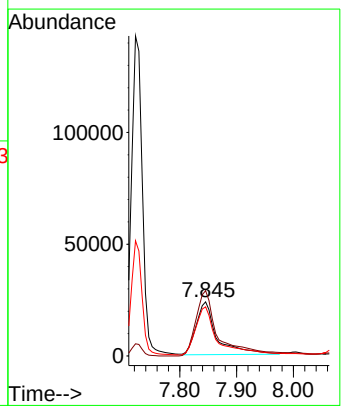


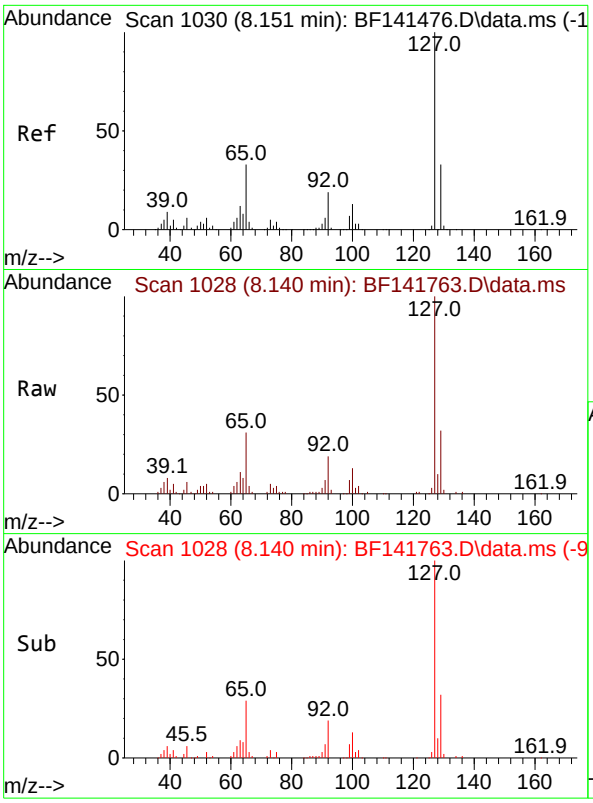


#32
Benzoic acid
Concen: 17.851 ng
RT: 7.845 min Scan# 978
Delta R.T. -0.047 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:122 Resp: 60430

Ion	Ratio	Lower	Upper
122	100		
105	120.9	106.5	146.5
77	90.8	76.3	116.3

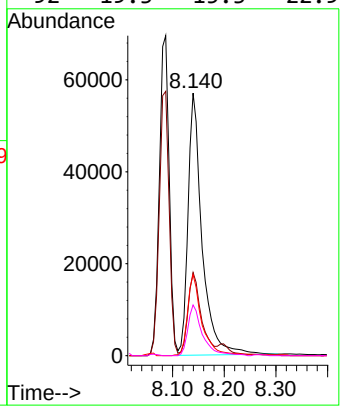




#33
4-Chloroaniline
Concen: 19.747 ng
RT: 8.140 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:127 Resp: 10763

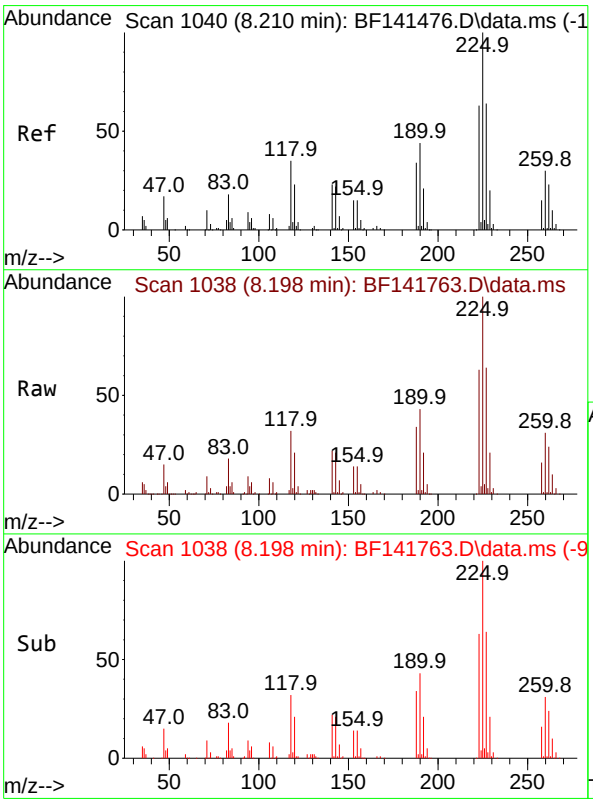
Ion	Ratio	Lower	Upper
127	100		
129	31.7	26.5	39.7
65	30.8	26.4	39.6
92	19.3	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

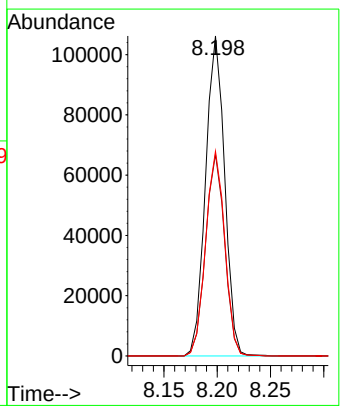
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

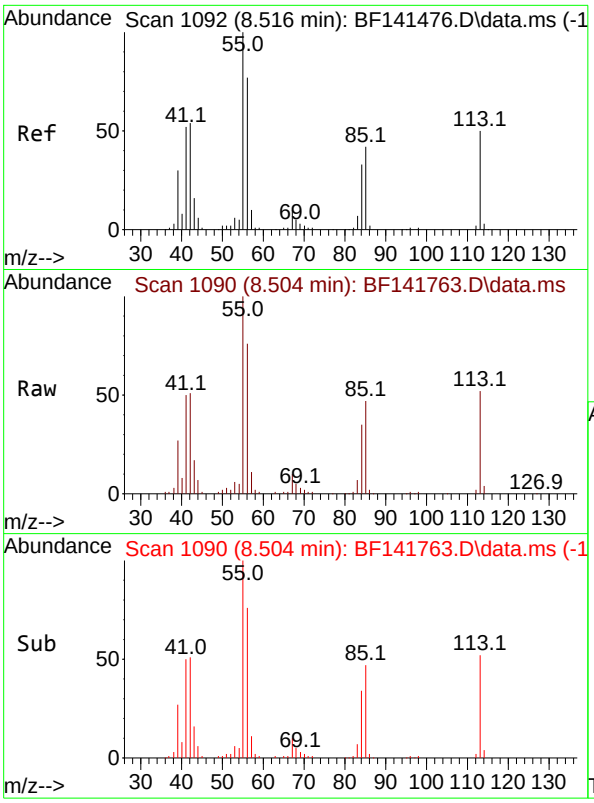


#34
Hexachlorobutadiene
Concen: 46.070 ng
RT: 8.198 min Scan# 1038
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:225 Resp: 132624

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.1	75.1
227	64.0	51.0	76.6

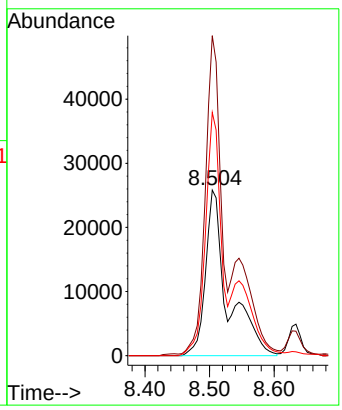




#35
Caprolactam
Concen: 46.193 ng m
RT: 8.504 min Scan# 1
Delta R.T. -0.041 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:113 Resp: 6193

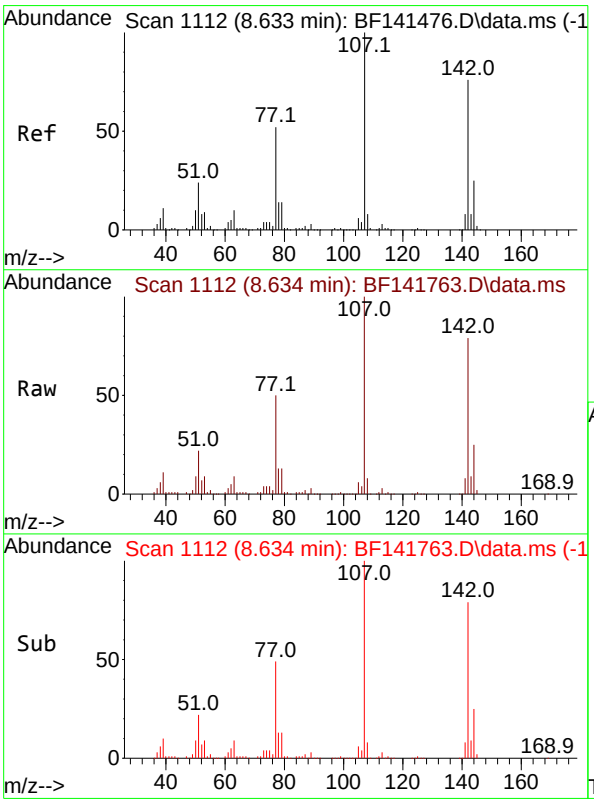
Ion	Ratio	Lower	Upper
113	100		
55	193.2	180.8	220.8
56	146.8	133.6	173.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

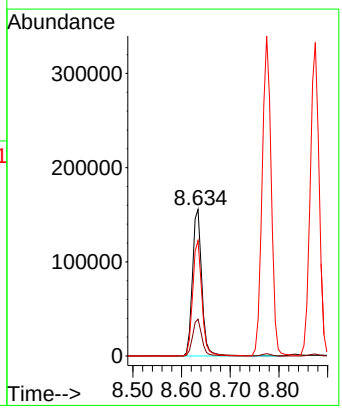
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

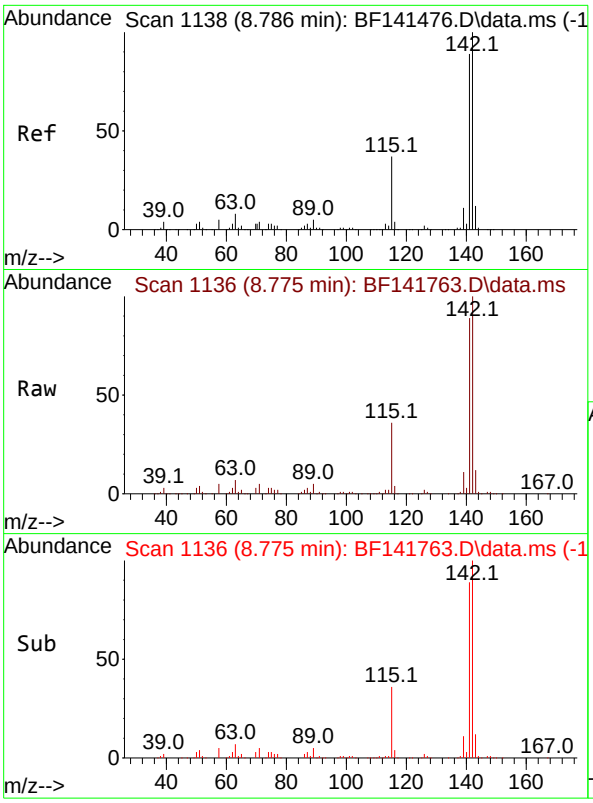


#36
4-Chloro-3-methylphenol
Concen: 42.944 ng
RT: 8.634 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:107 Resp: 209473

Ion	Ratio	Lower	Upper
107	100		
144	25.2	19.7	29.5
142	78.7	60.8	91.2





#37
2-Methylnaphthalene
Concen: 43.065 ng
RT: 8.775 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

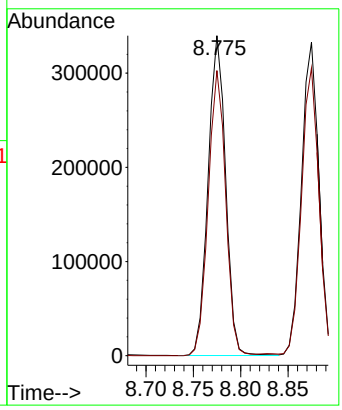
Tgt Ion:142 Resp: 43753

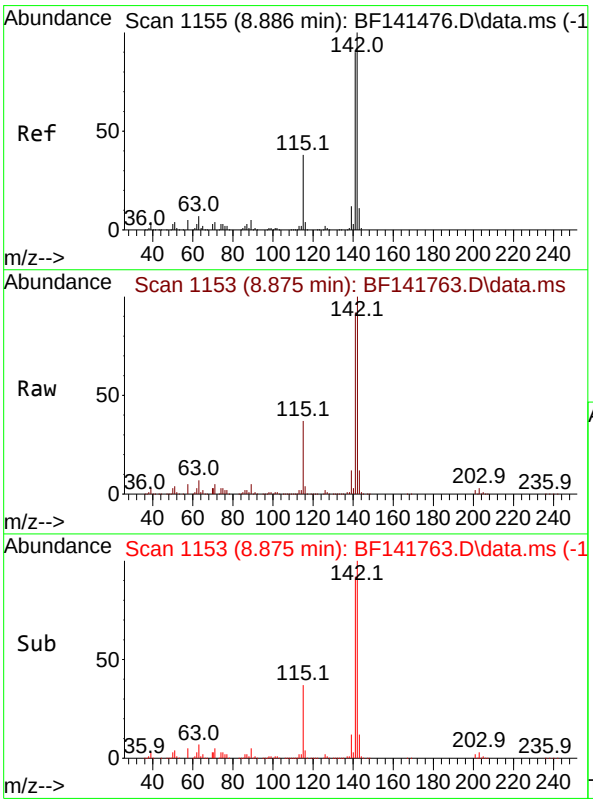
Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.2	106.8

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

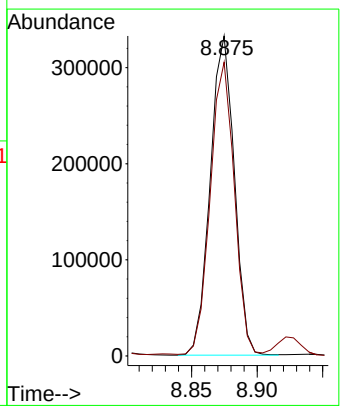


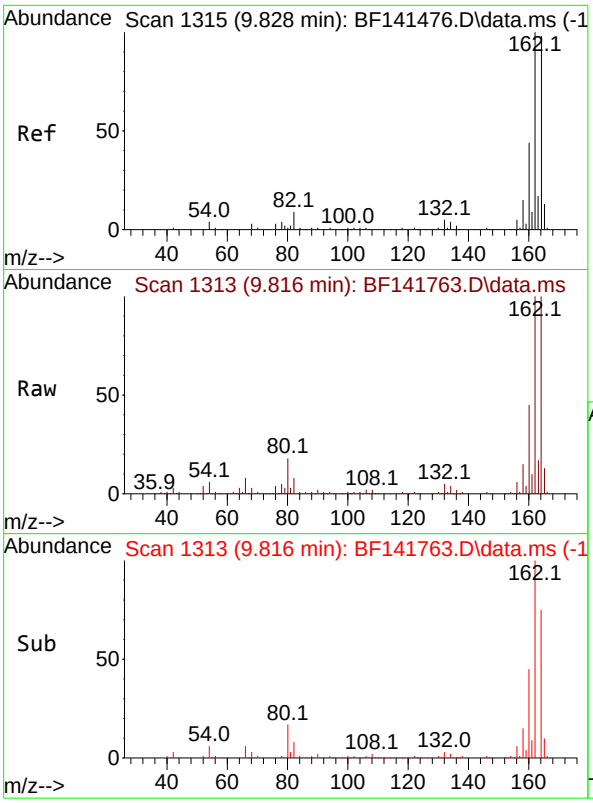


#38
1-Methylnaphthalene
Concen: 43.132 ng
RT: 8.875 min Scan# 1153
Delta R.T. -0.012 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:142 Resp: 424417

Ion	Ratio	Lower	Upper
142	100		
141	91.8	72.1	108.1

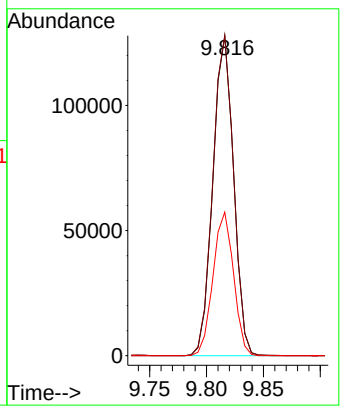




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:164 Resp: 16180

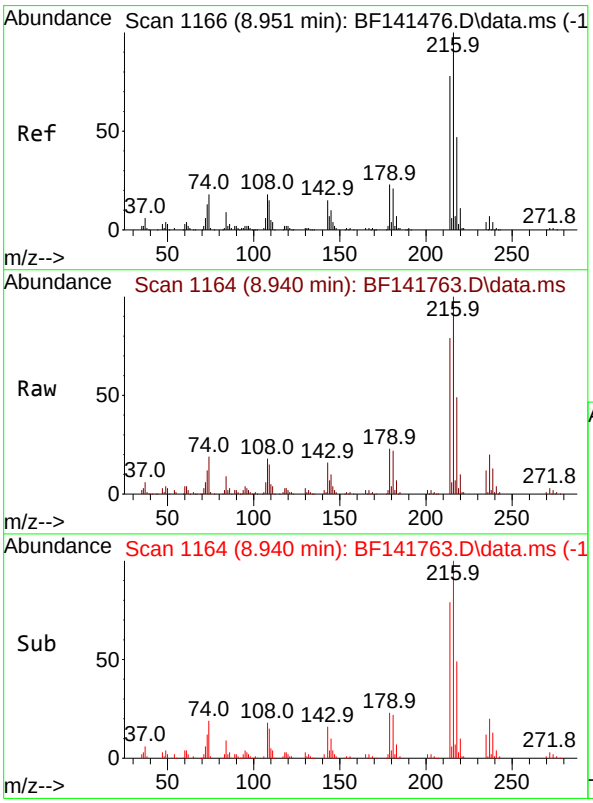
Ion	Ratio	Lower	Upper
164	100		
162	100.1	81.3	121.9
160	44.9	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

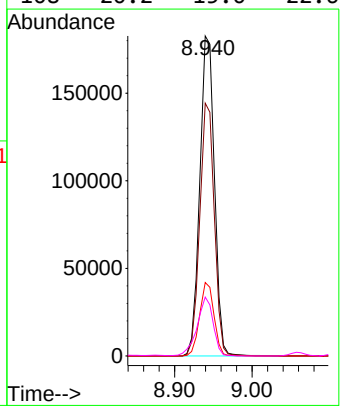
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

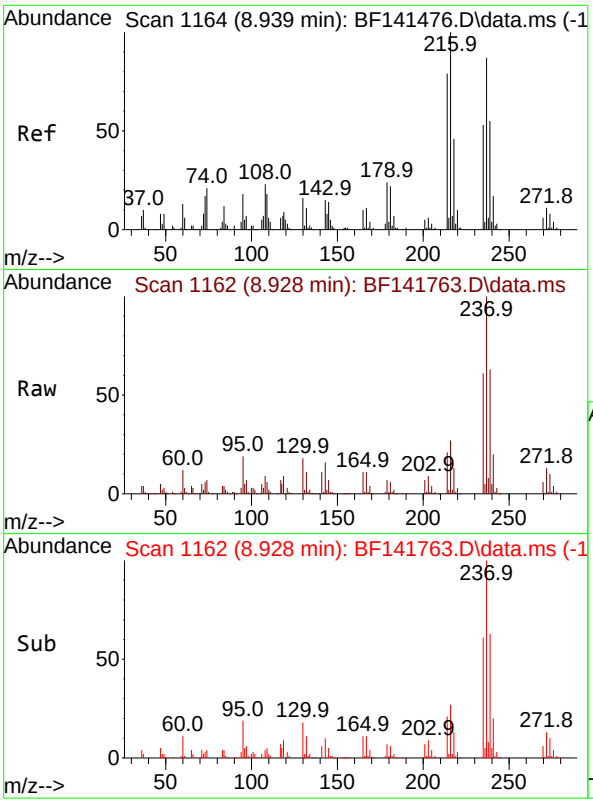


#40
1,2,4,5-Tetrachlorobenzene
Concen: 51.212 ng
RT: 8.940 min Scan# 1164
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:216 Resp: 239737

Ion	Ratio	Lower	Upper
216	100		
214	78.5	62.3	93.5
179	22.5	18.0	27.0
108	20.2	15.0	22.6

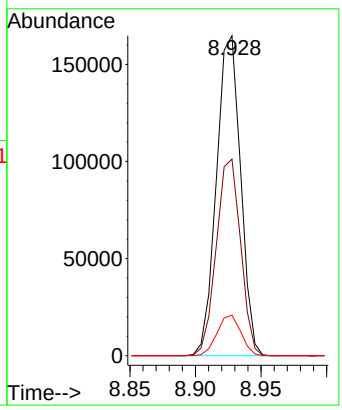




#41
Hexachlorocyclopentadiene
Concen: 135.724 ng
RT: 8.928 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:237 Resp: 21132

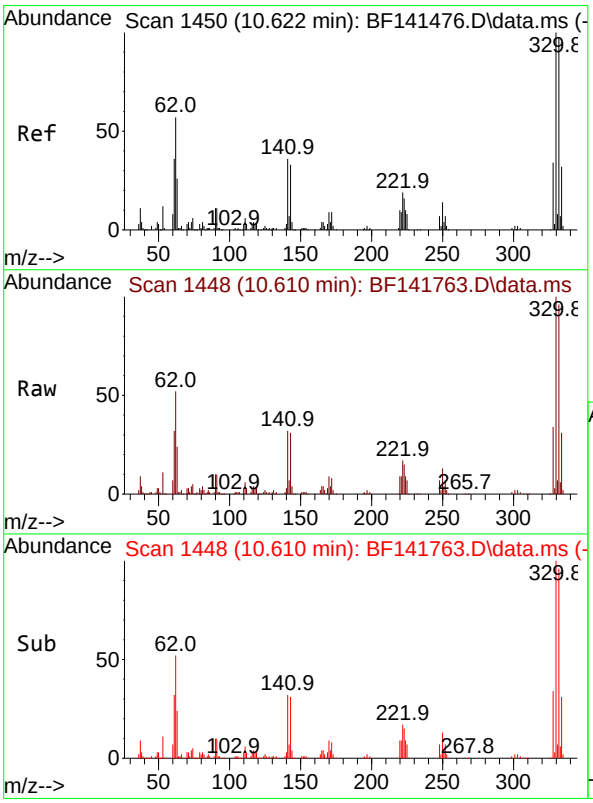
Ion	Ratio	Lower	Upper
237	100		
235	61.5	41.4	81.4
272	12.7	0.0	32.4



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

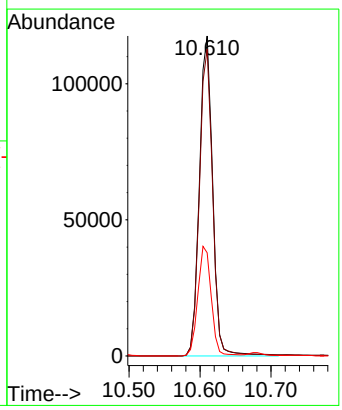
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

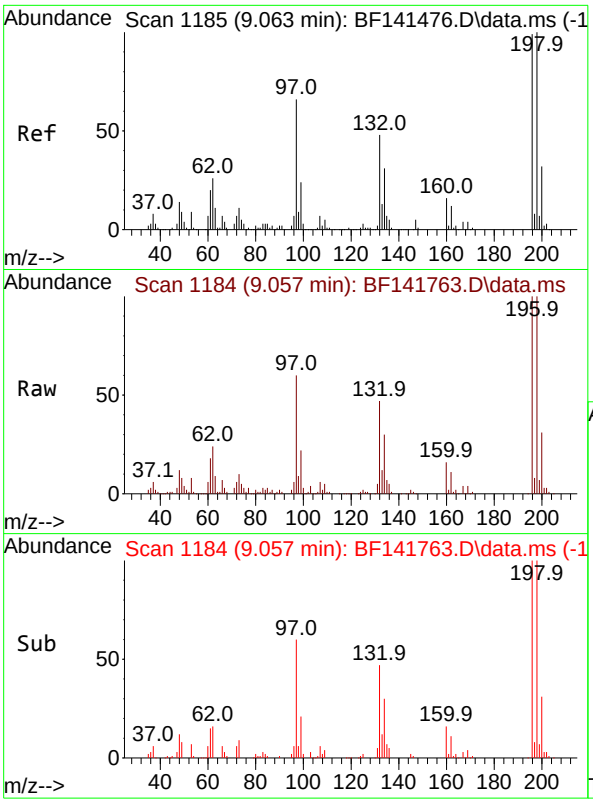


#42
2,4,6-Tribromophenol
Concen: 94.076 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:330 Resp: 152913

Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.5	117.7
141	34.7	31.0	46.4

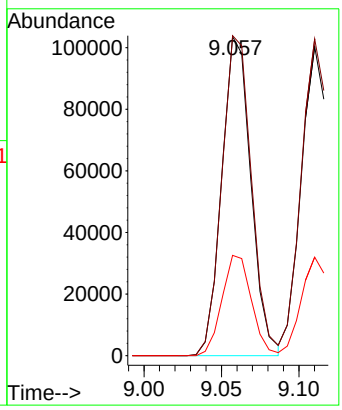




#43
2,4,6-Trichlorophenol
Concen: 44.843 ng
RT: 9.057 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:196 Resp: 13567

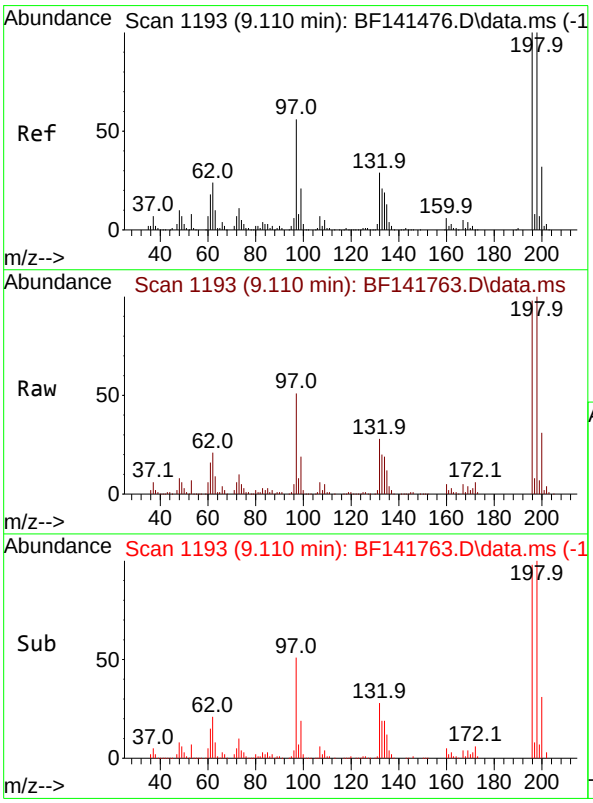
Ion	Ratio	Lower	Upper
196	100		
198	100.3	80.6	121.0
200	31.4	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

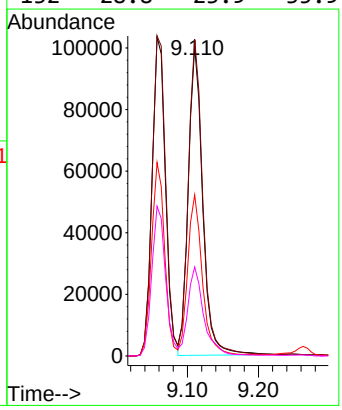
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

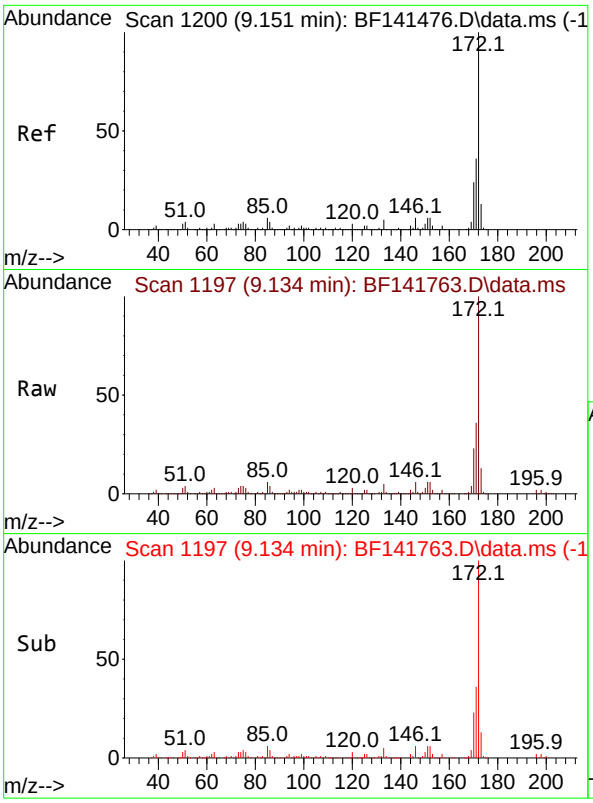


#44
2,4,5-Trichlorophenol
Concen: 43.112 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:196 Resp: 141363

Ion	Ratio	Lower	Upper
196	100		
198	102.5	79.8	119.8
97	52.1	44.8	67.2
132	28.8	23.9	35.9

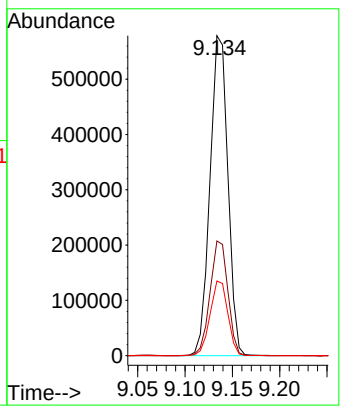




#45
2-Fluorobiphenyl
Concen: 72.536 ng
RT: 9.134 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:172 Resp: 76181

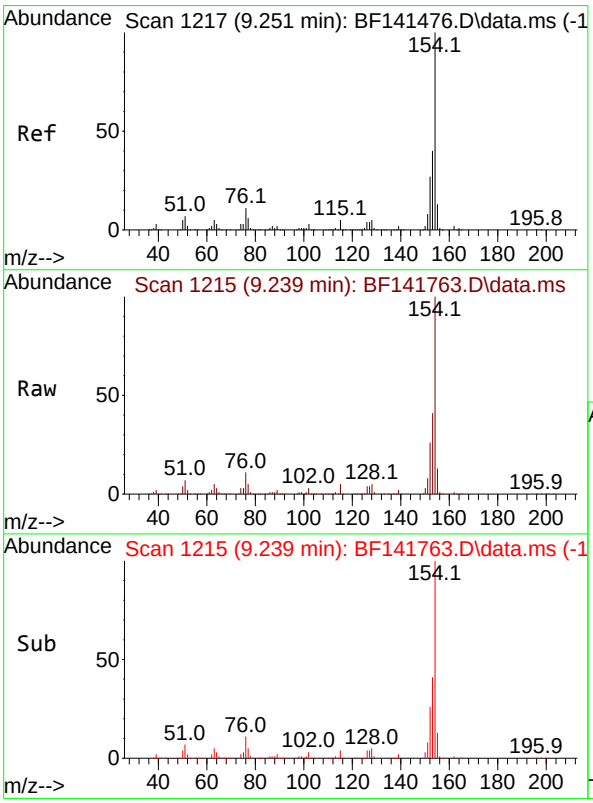
Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.7	43.1
170	23.3	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

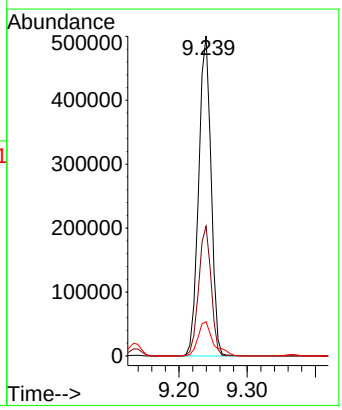
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

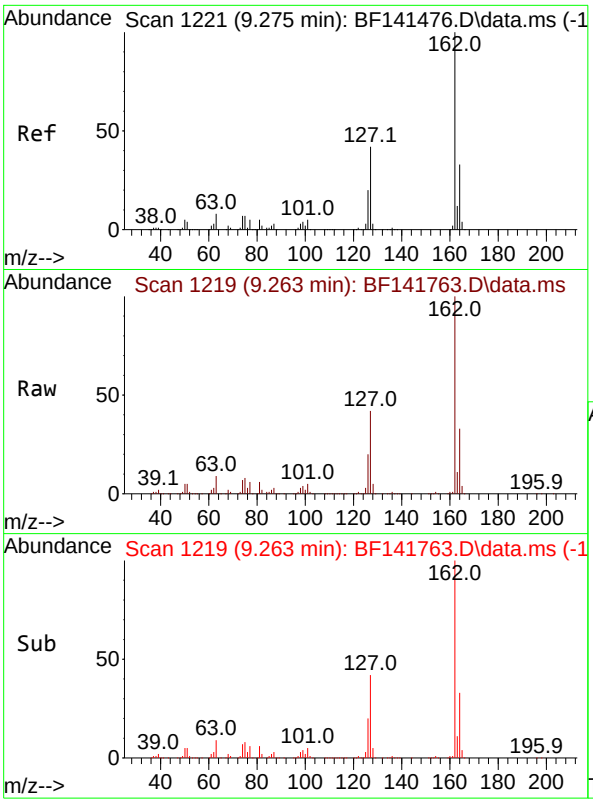


#46
1,1'-Biphenyl
Concen: 50.317 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:154 Resp: 631200

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.4	60.4
76	10.7	0.0	30.8

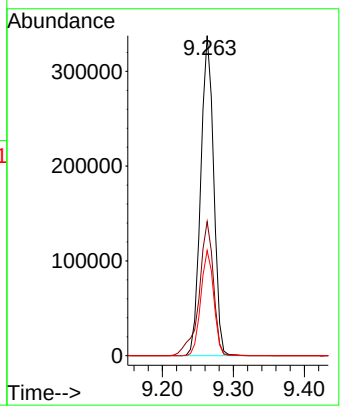




#47
2-Chloronaphthalene
Concen: 46.266 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:162 Resp: 42918

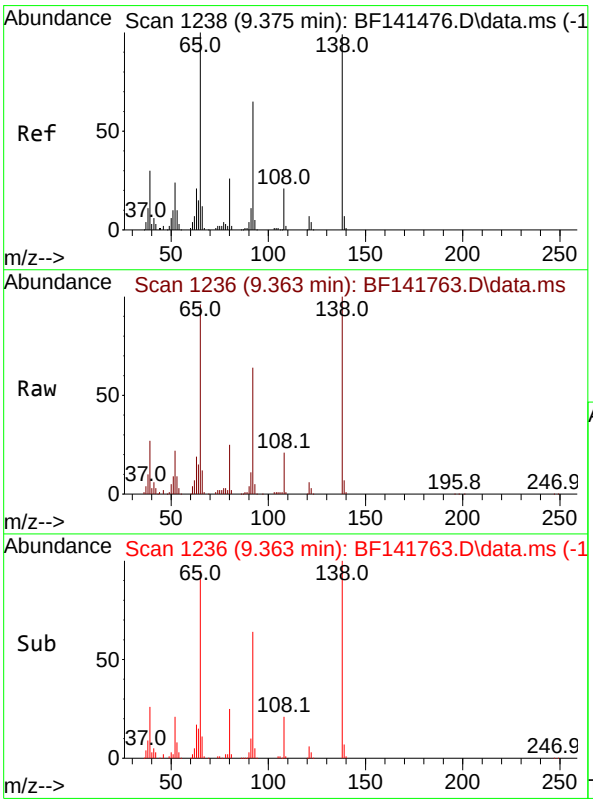
Ion	Ratio	Lower	Upper
162	100		
127	41.9	34.1	51.1
164	32.9	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

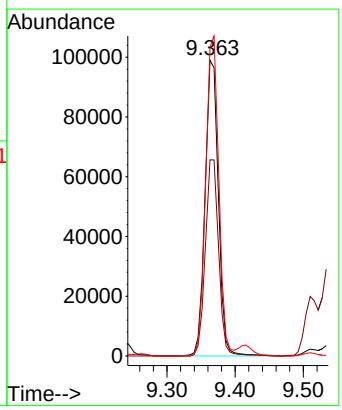
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

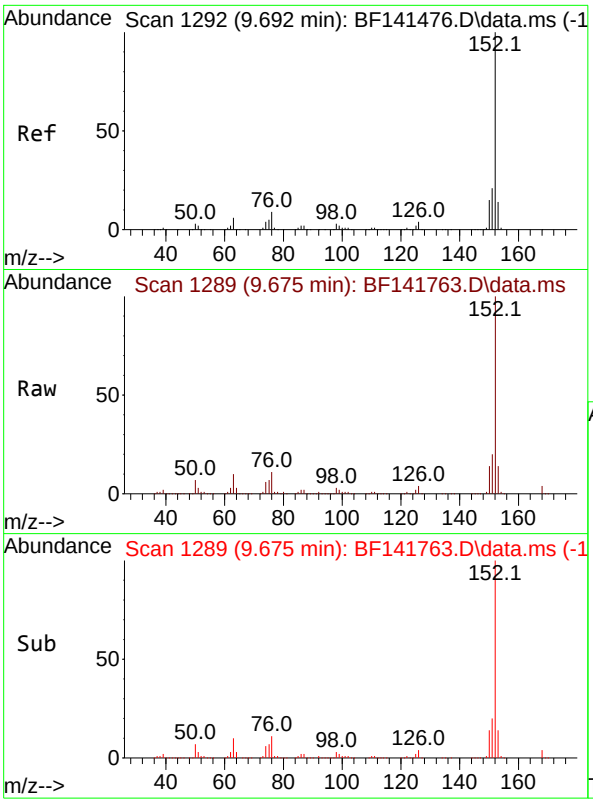


#48
2-Nitroaniline
Concen: 43.349 ng
RT: 9.363 min Scan# 1236
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 65 Resp: 134953

Ion	Ratio	Lower	Upper
65	100		
92	66.4	52.2	78.2
138	104.5	79.5	119.3

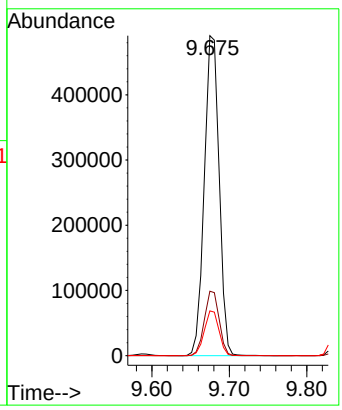




#49
Acenaphthylene
Concen: 47.361 ng
RT: 9.675 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:152 Resp: 65345

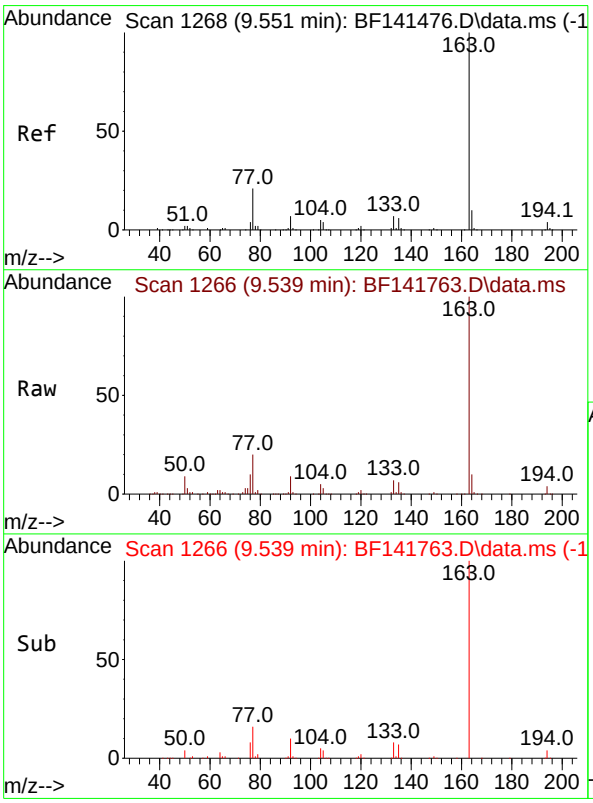
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.4	24.6
153	14.0	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

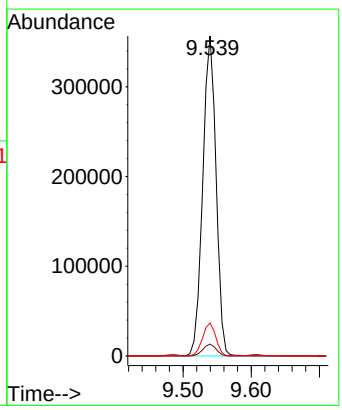
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

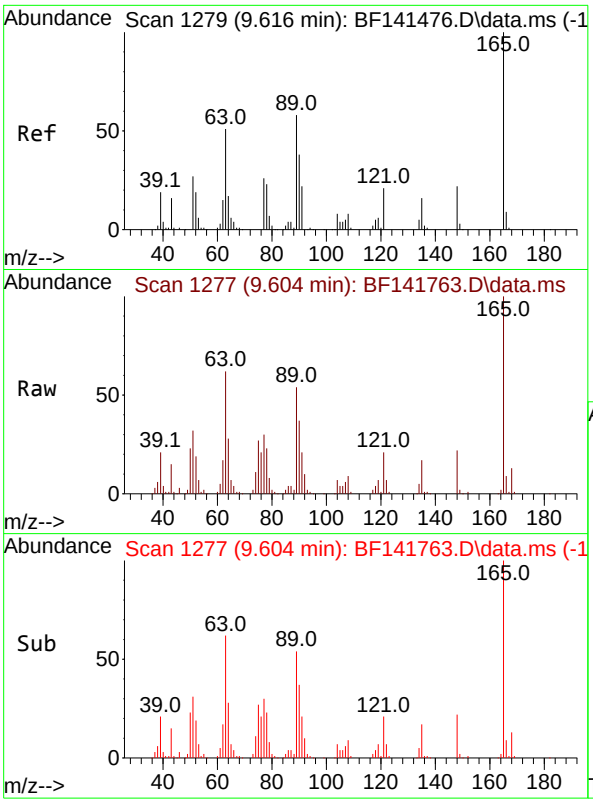


#50
Dimethylphthalate
Concen: 44.099 ng
RT: 9.539 min Scan# 1266
Delta R.T. -0.023 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:163 Resp: 484412

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.4
164	10.3	7.9	11.9

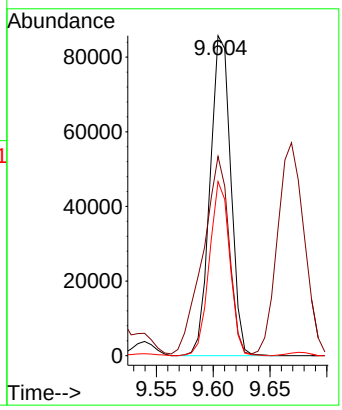




#51
2,6-Dinitrotoluene
Concen: 45.293 ng
RT: 9.604 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:165 Resp: 10876

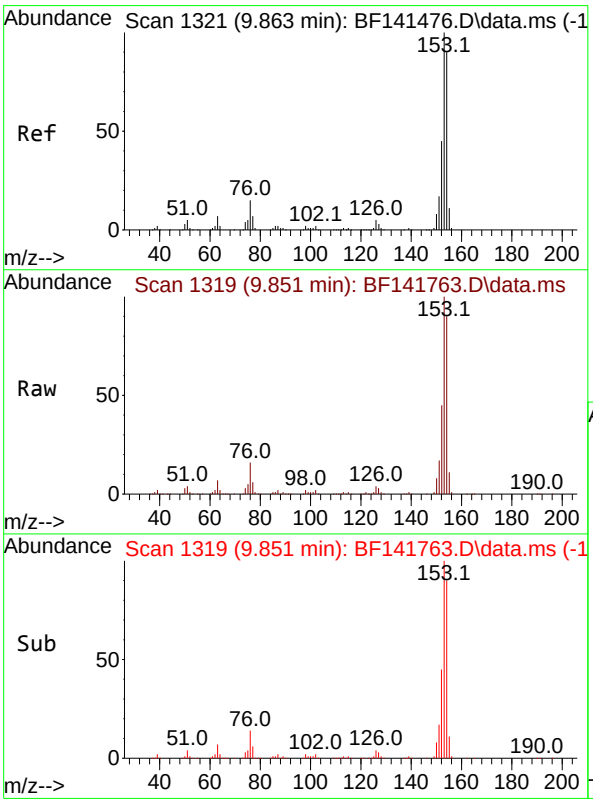
Ion	Ratio	Lower	Upper
165	100		
63	62.2	49.4	74.0
89	54.4	46.5	69.7



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

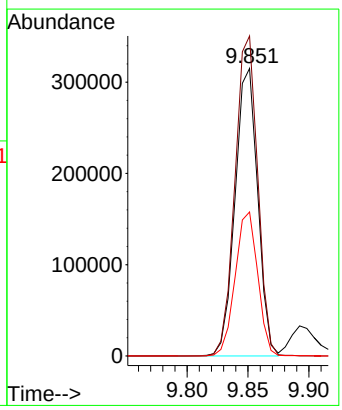
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

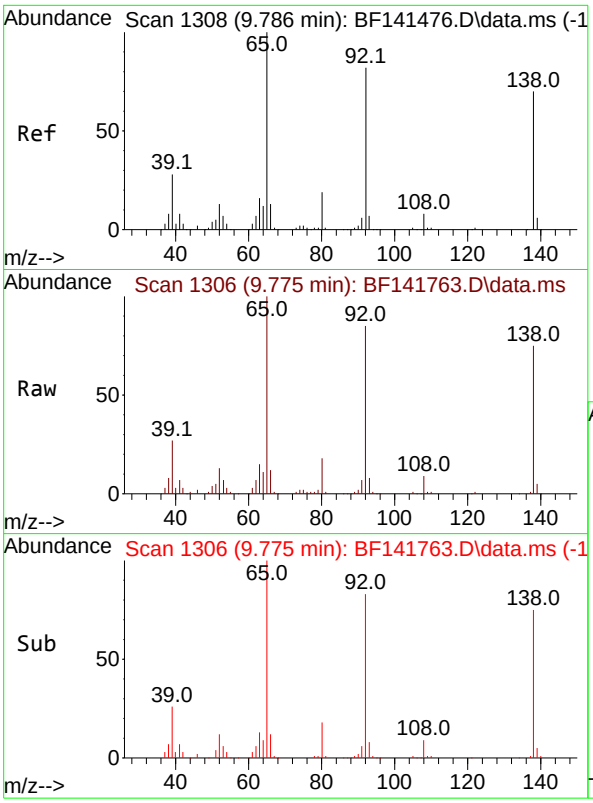


#52
Acenaphthene
Concen: 44.012 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:154 Resp: 408252

Ion	Ratio	Lower	Upper
154	100		
153	111.3	89.2	133.8
152	50.1	39.8	59.8





#53
3-Nitroaniline
Concen: 25.937 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

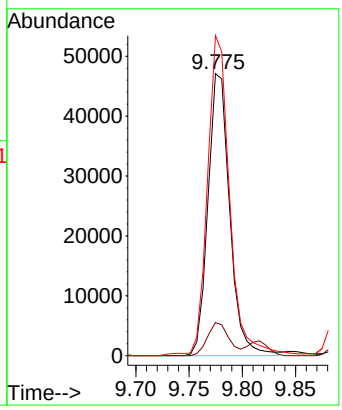
Tgt Ion:138 Resp: 6703

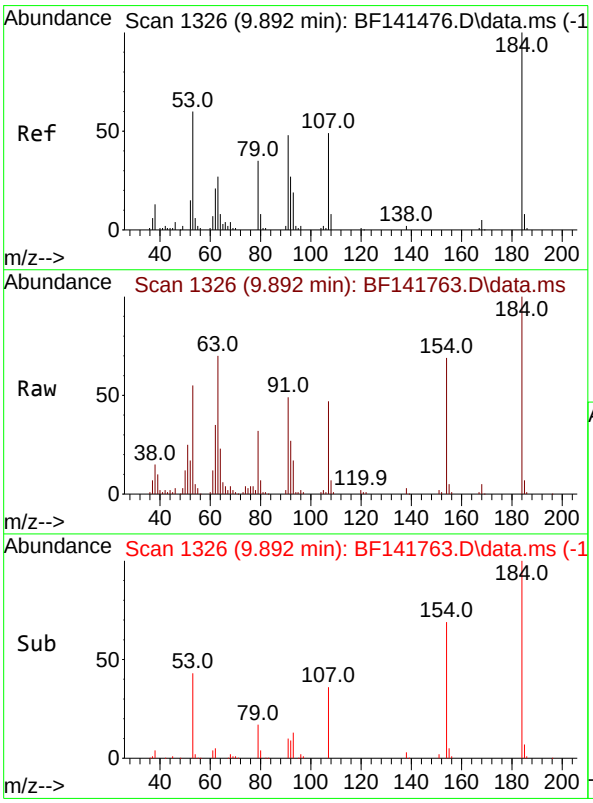
Ion	Ratio	Lower	Upper
138	100		
108	11.7	9.0	13.4
92	113.4	93.7	140.5

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

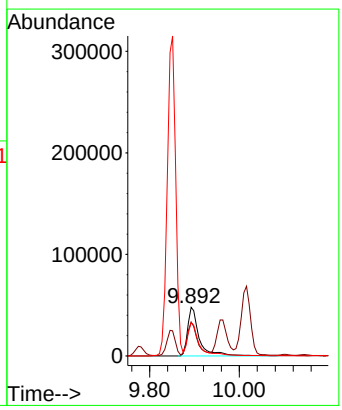


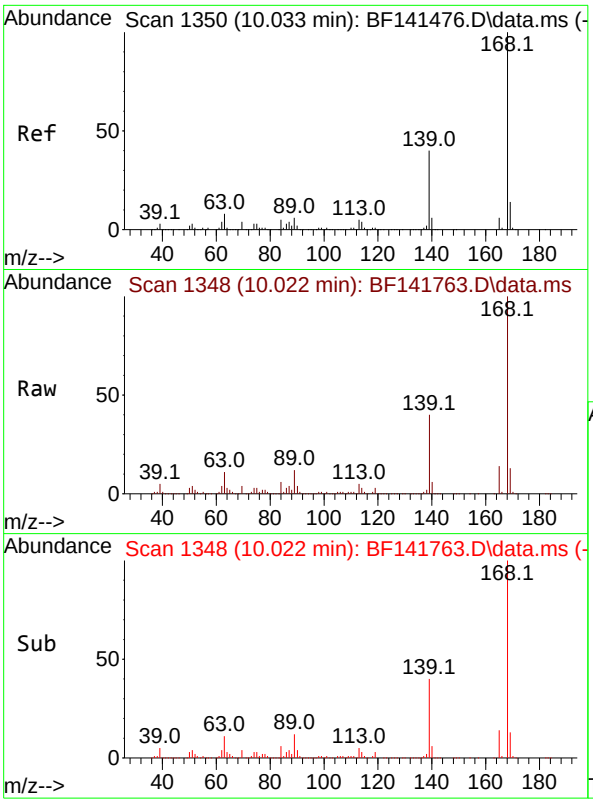


#54
2,4-Dinitrophenol
Concen: 61.119 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:184 Resp: 87227

Ion	Ratio	Lower	Upper
184	100		
63	69.9	61.0	91.6
154	68.7	59.9	89.9

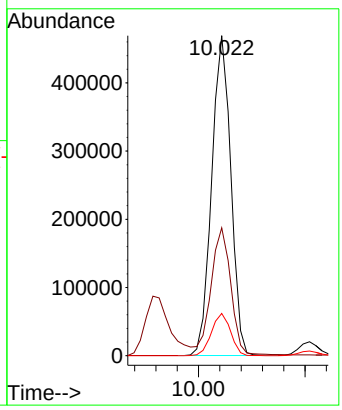




#55
Dibenzofuran
Concen: 42.834 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:168 Resp: 58319

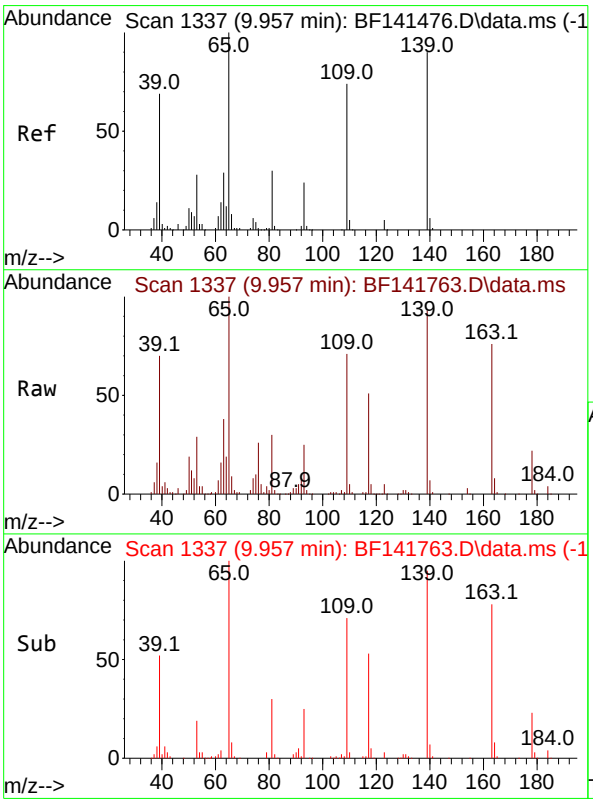
Ion	Ratio	Lower	Upper
168	100		
139	39.9	32.7	49.1
169	13.2	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

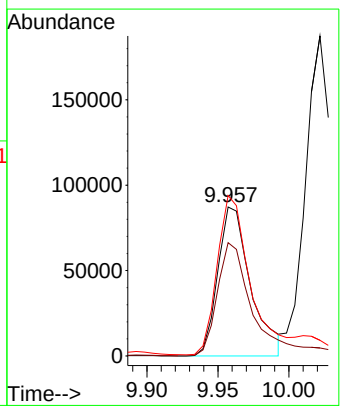
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

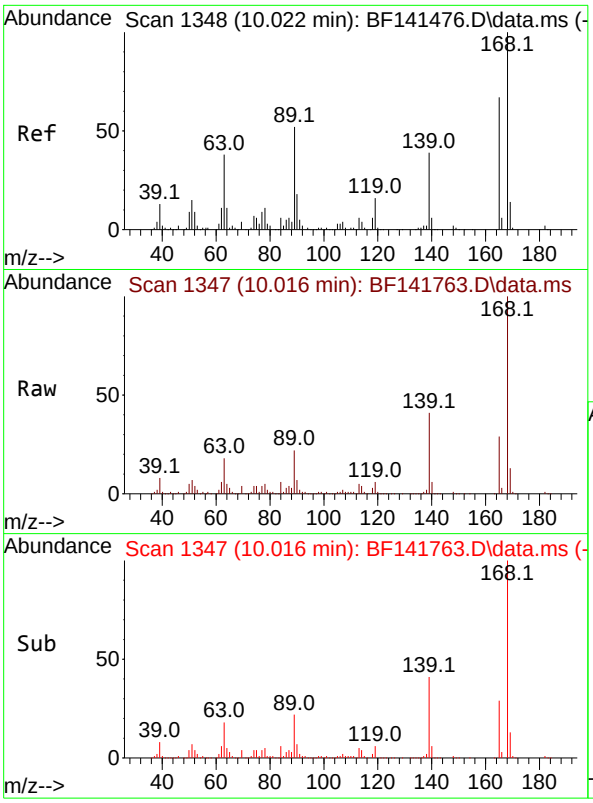


#56
4-Nitrophenol
Concen: 73.020 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:139 Resp: 140095

Ion	Ratio	Lower	Upper
139	100		
109	76.0	62.0	102.0
65	107.7	91.2	131.2

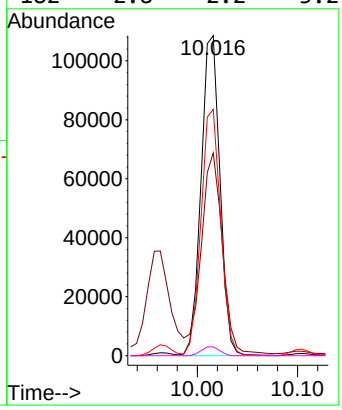




#57
2,4-Dinitrotoluene
Concen: 44.566 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:165 Resp: 14246

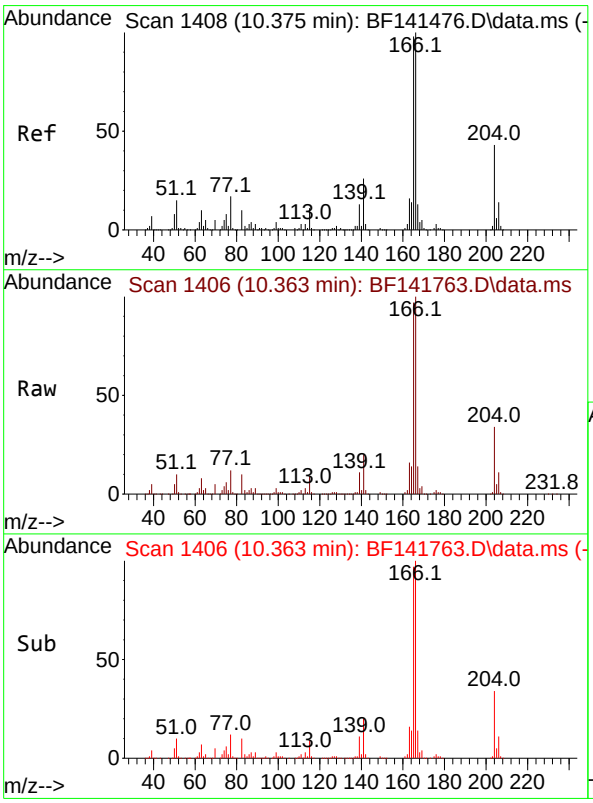
Ion	Ratio	Lower	Upper
165	100		
63	63.4	46.4	69.6
89	77.0	61.8	92.6
182	2.8	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

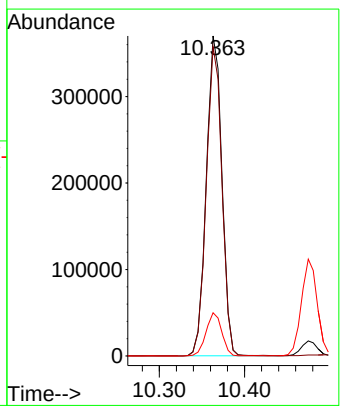
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

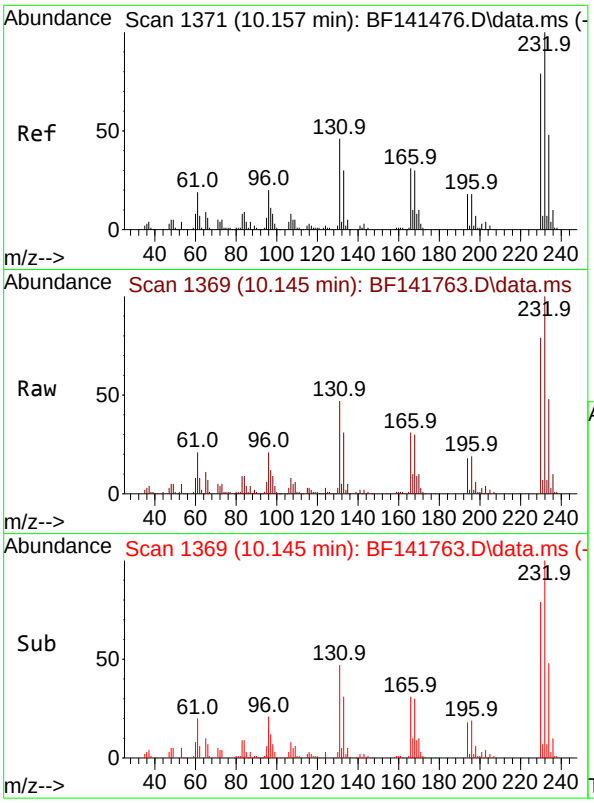


#58
Fluorene
Concen: 44.692 ng
RT: 10.363 min Scan# 1406
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:166 Resp: 470483

Ion	Ratio	Lower	Upper
166	100		
165	96.7	78.2	117.2
167	13.5	10.7	16.1

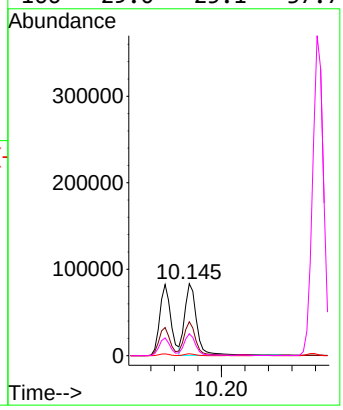




#59
2,3,4,6-Tetrachlorophenol
Concen: 41.218 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:232 Resp: 11635

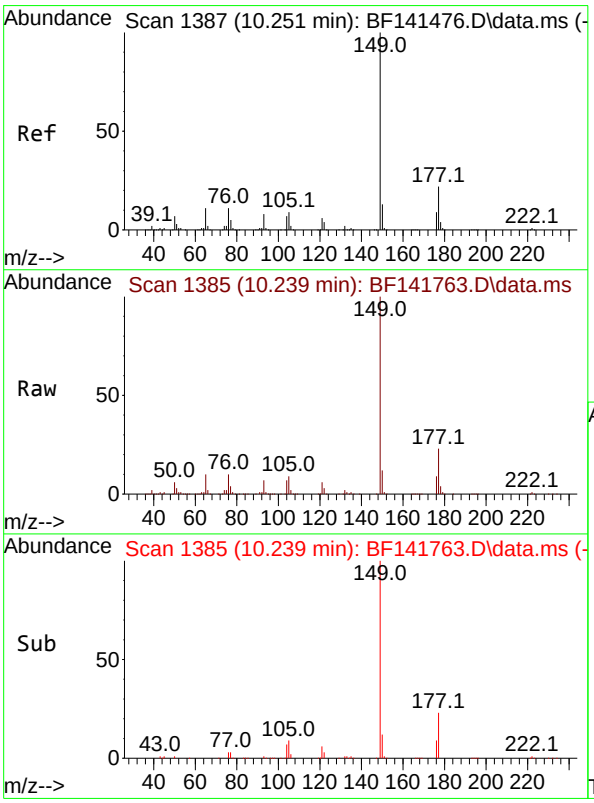
Ion	Ratio	Lower	Upper
232	100		
131	46.6	39.2	58.8
130	2.5	2.1	3.1
166	29.0	25.1	37.7



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

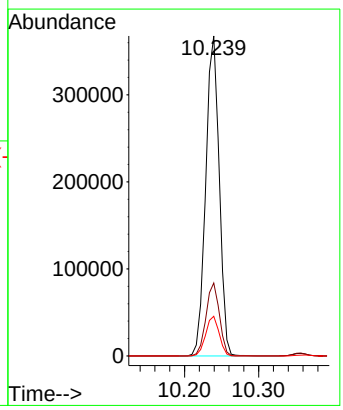
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

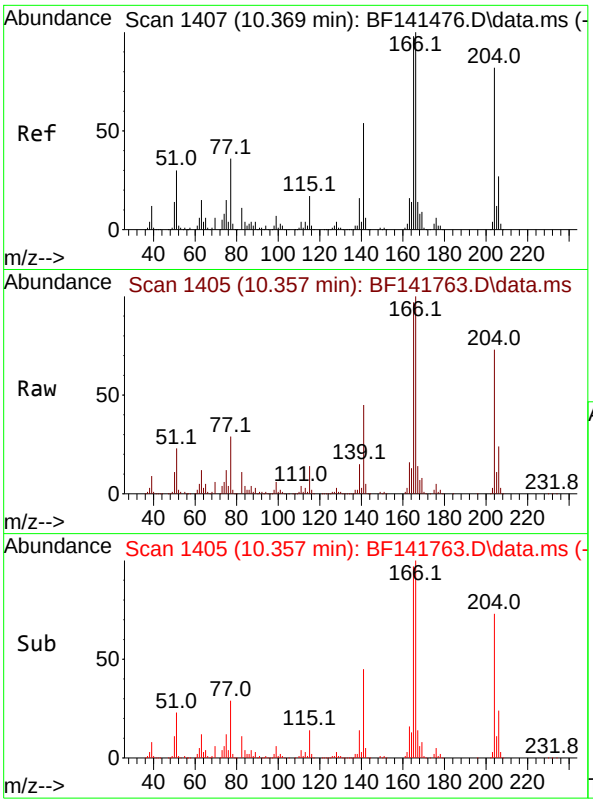


#60
Diethylphthalate
Concen: 43.068 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:149 Resp: 465458

Ion	Ratio	Lower	Upper
149	100		
177	22.8	17.8	26.6
150	12.4	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 44.958 ng
RT: 10.357 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

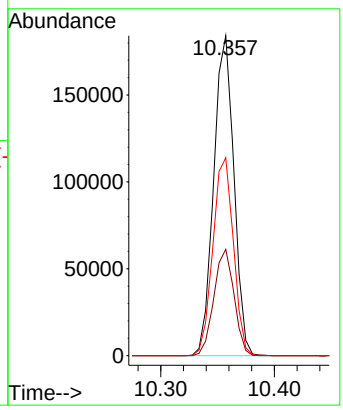
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

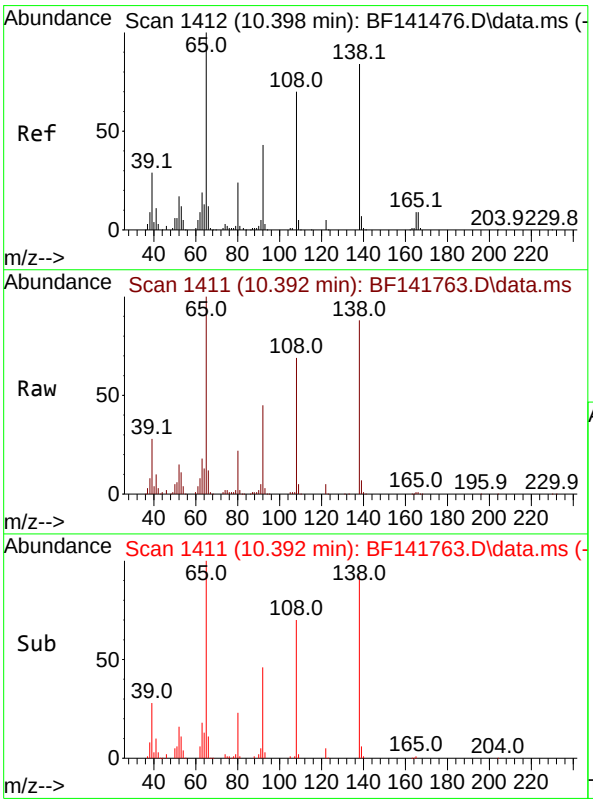
Tgt Ion:204 Resp: 22769

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.6	40.0
141	61.8	51.9	77.9

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

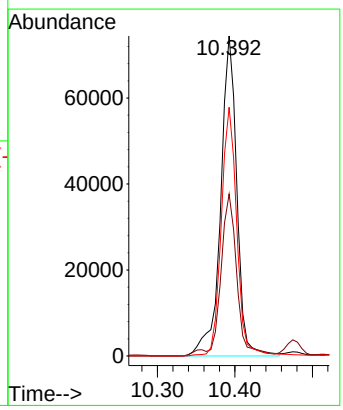


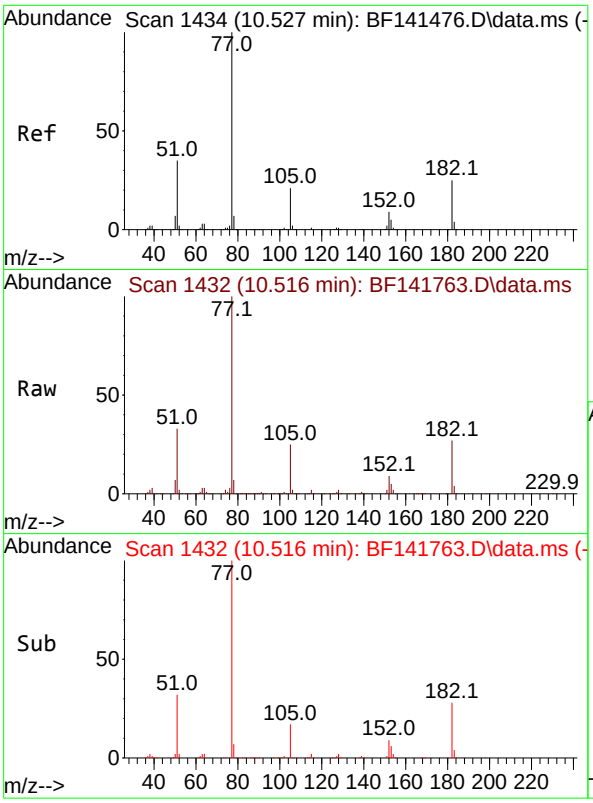


#62
4-Nitroaniline
Concen: 41.300 ng
RT: 10.392 min Scan# 1411
Delta R.T. -0.023 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:138 Resp: 108386

Ion	Ratio	Lower	Upper
138	100		
92	50.6	31.3	71.3
108	77.7	63.7	103.7

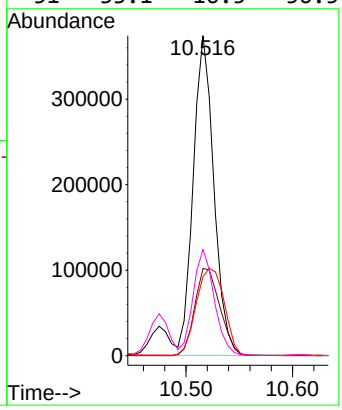




#63
Azobenzene
Concen: 46.798 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 77 Resp: 50279

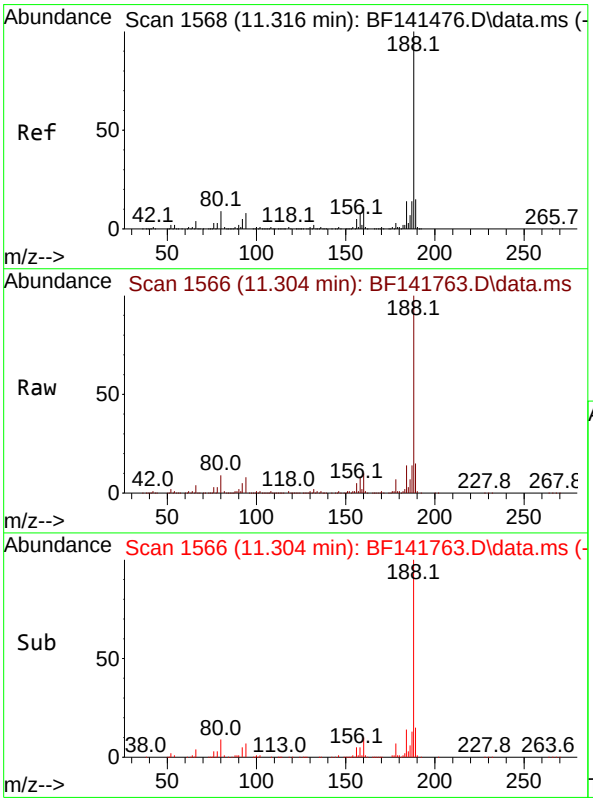
Ion	Ratio	Lower	Upper
77	100		
182	27.2	4.7	44.7
105	24.6	0.4	40.4
51	33.1	16.5	56.5



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

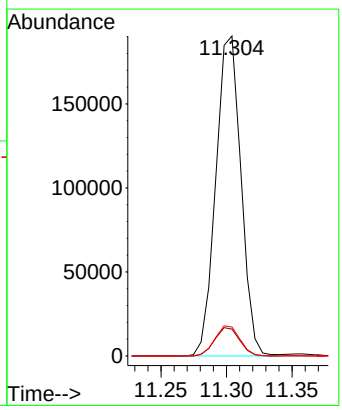
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

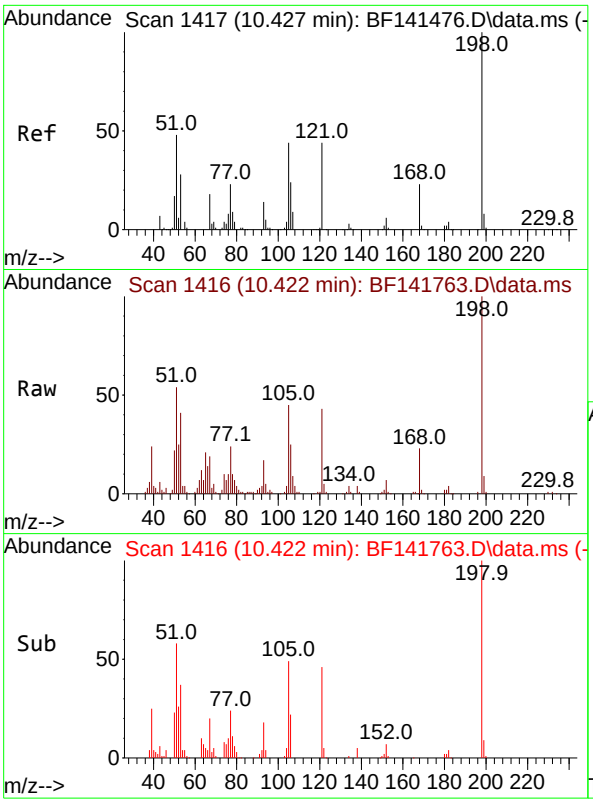


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:188 Resp: 253973

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	9.1	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 38.104 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

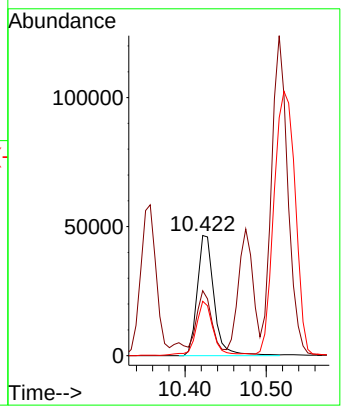
Tgt Ion:198 Resp: 6722

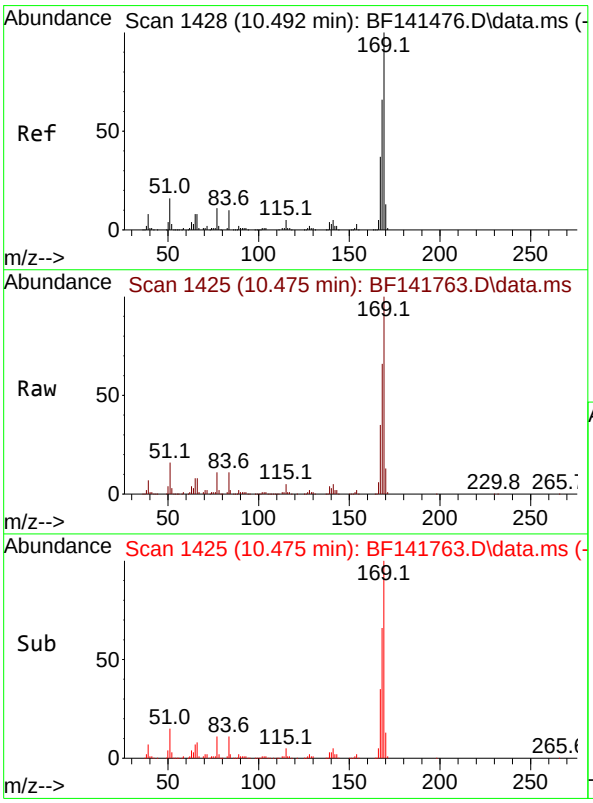
Ion	Ratio	Lower	Upper
198	100		
51	54.1	37.4	77.4
105	45.2	25.2	65.2

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

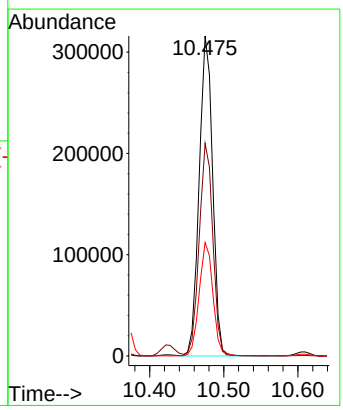


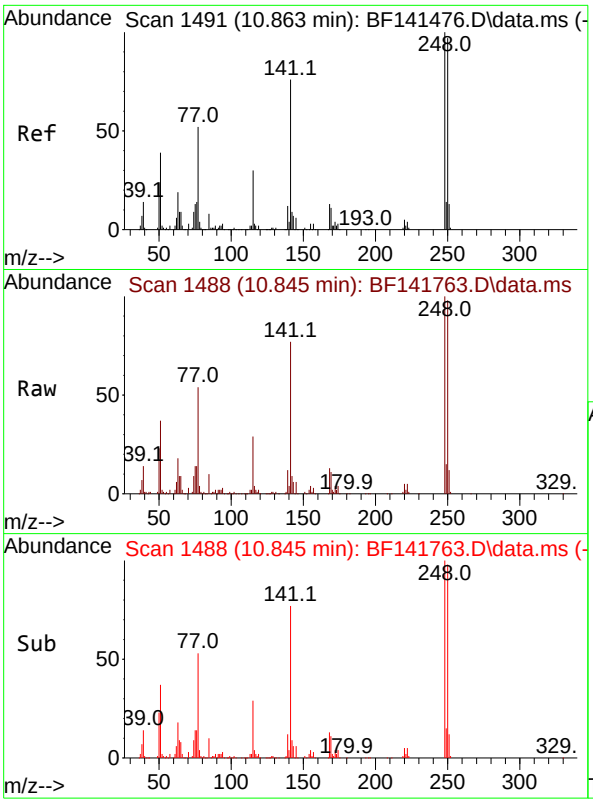


#66
n-Nitrosodiphenylamine
Concen: 49.203 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.023 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:169 Resp: 400020

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.3	79.9
167	35.4	29.4	44.2

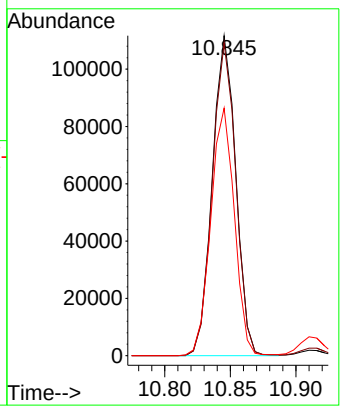




#67
4-Bromophenyl-phenylether
Concen: 49.014 ng
RT: 10.845 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:248 Resp: 13912(

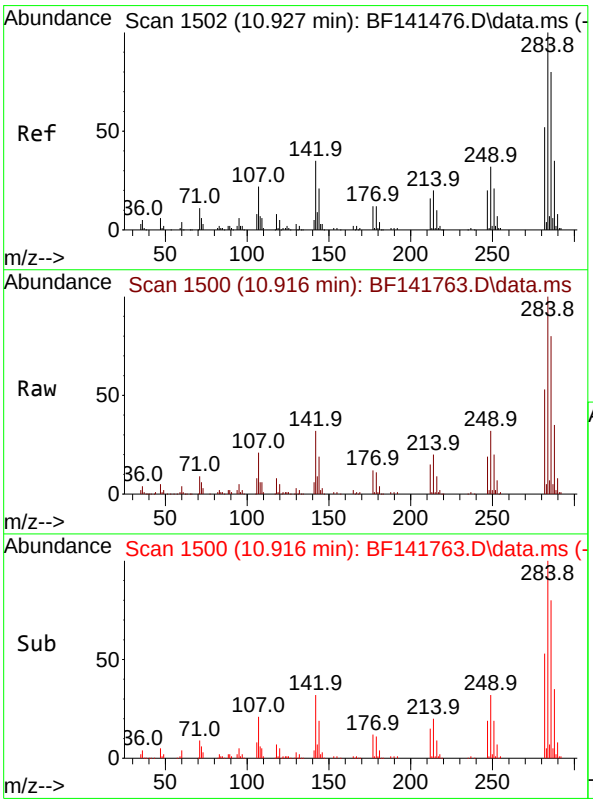
Ion	Ratio	Lower	Upper
248	100		
250	97.7	77.8	116.6
141	77.3	60.6	90.8



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

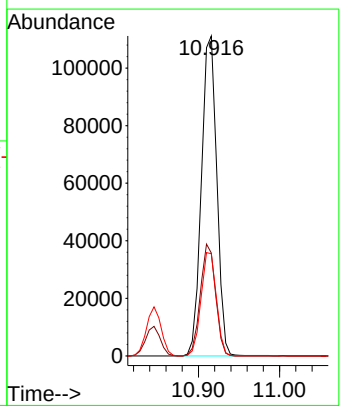
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

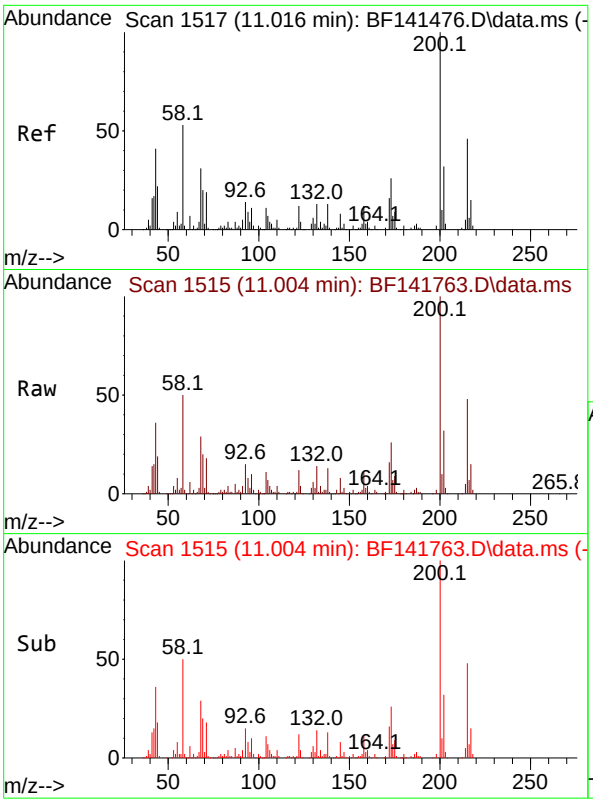


#68
Hexachlorobenzene
Concen: 49.895 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:284 Resp: 145837

Ion	Ratio	Lower	Upper
284	100		
142	32.2	28.0	42.0
249	32.0	25.8	38.8

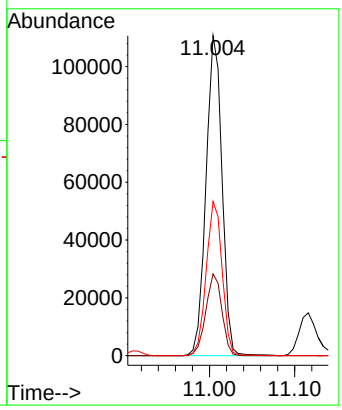




#69
Atrazine
Concen: 59.121 ng
RT: 11.004 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:200 Resp: 14419

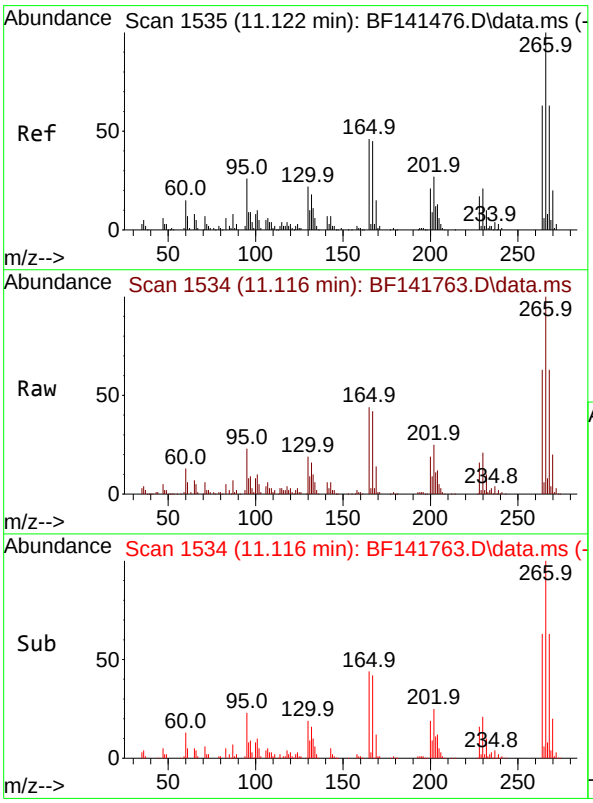
Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.9	45.9
215	48.2	25.9	65.9



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

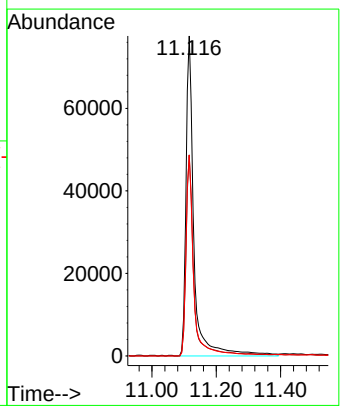
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

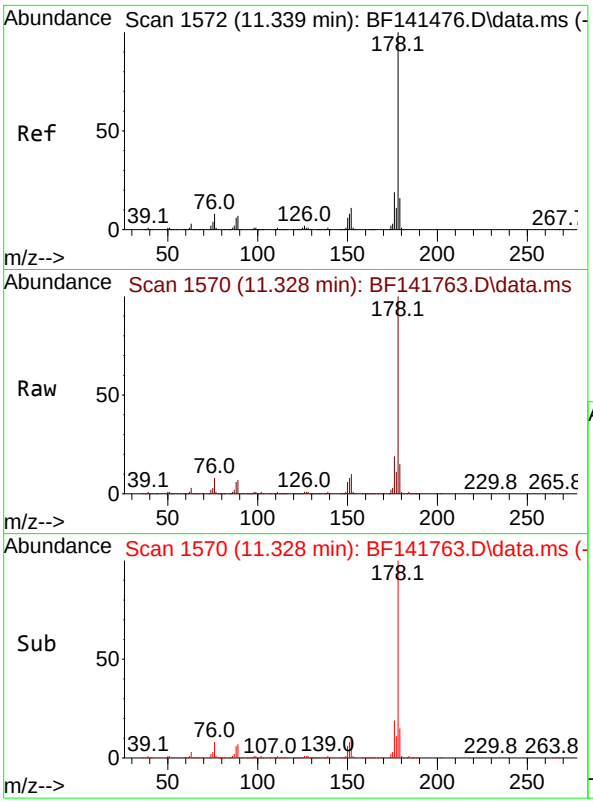


#70
Pentachlorophenol
Concen: 71.320 ng
RT: 11.116 min Scan# 1534
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:266 Resp: 133292

Ion	Ratio	Lower	Upper
266	100		
268	62.9	50.1	75.1
264	62.7	50.1	75.1

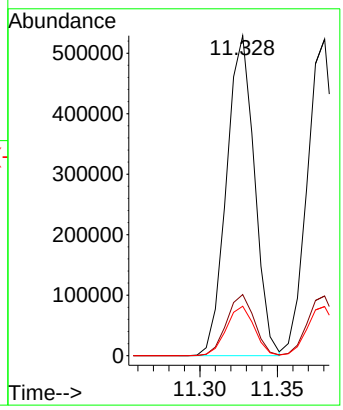




#71
Phenanthrene
Concen: 47.472 ng
RT: 11.328 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:178 Resp: 66366

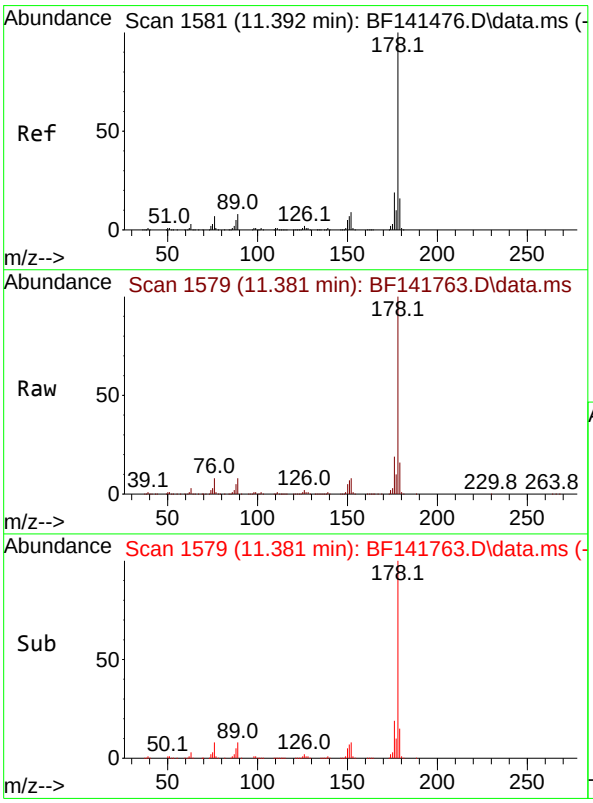
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.5	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

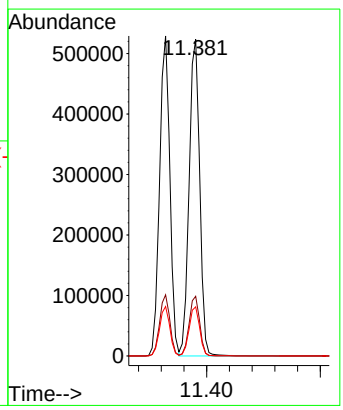
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

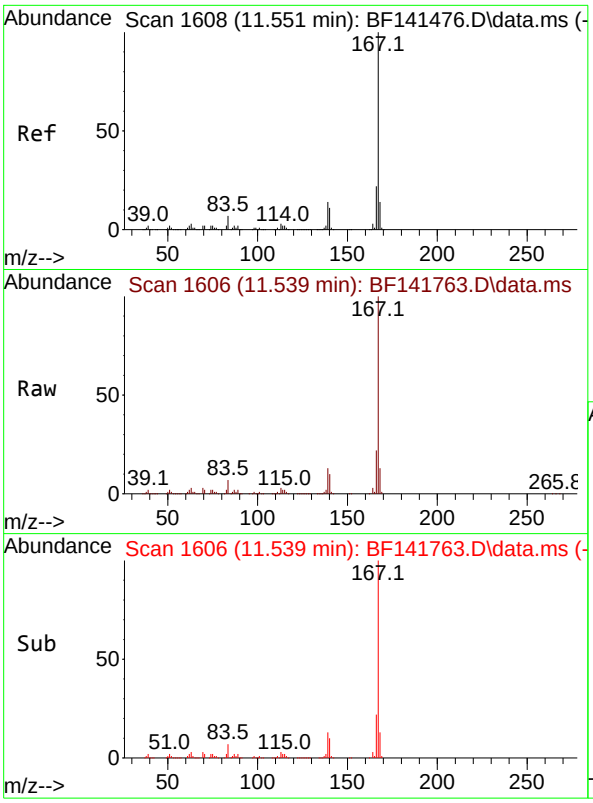


#72
Anthracene
Concen: 48.188 ng
RT: 11.381 min Scan# 1579
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:178 Resp: 677206

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.8	22.2
179	15.5	12.4	18.6

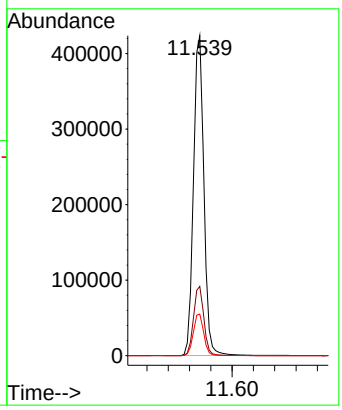




#73
Carbazole
Concen: 45.538 ng
RT: 11.539 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:167 Resp: 57583

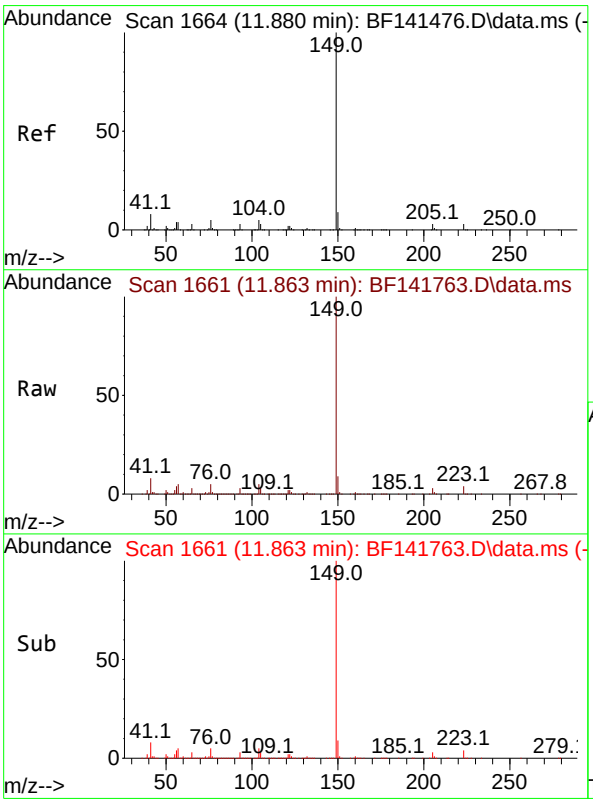
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.0	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

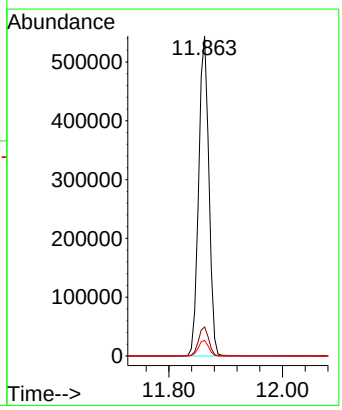
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

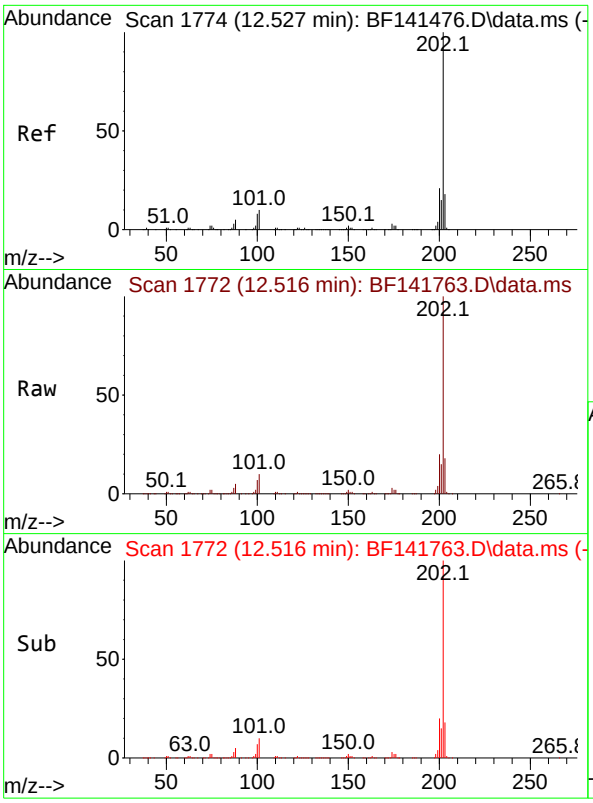


#74
Di-n-butylphthalate
Concen: 46.518 ng
RT: 11.863 min Scan# 1661
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:149 Resp: 679207

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	4.9	4.2	6.2

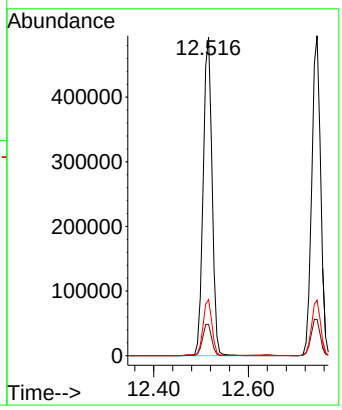




#75
Fluoranthene
Concen: 43.549 ng
RT: 12.516 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:202 Resp: 64546

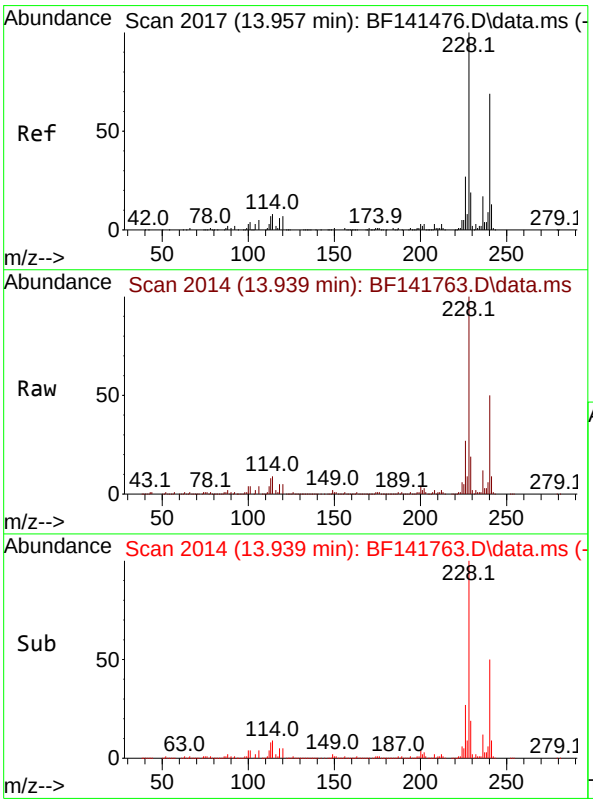
Ion	Ratio	Lower	Upper
202	100		
101	9.8	0.0	30.2
203	17.6	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

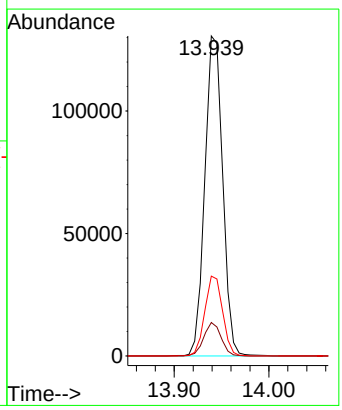
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

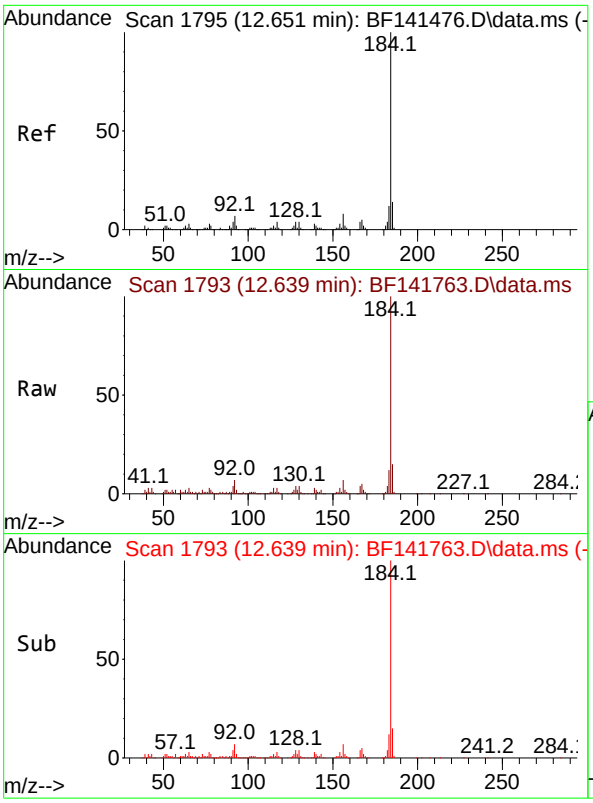


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:240 Resp: 171769

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.0	12.0
236	24.9	19.8	29.8





#77
Benzidine
Concen: 69.645 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

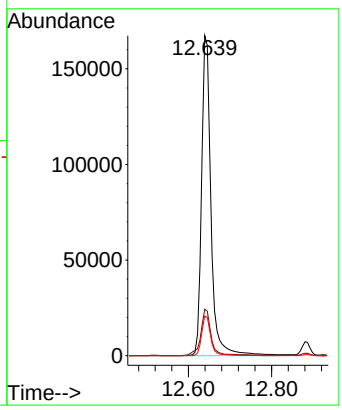
Tgt Ion:184 Resp: 26383

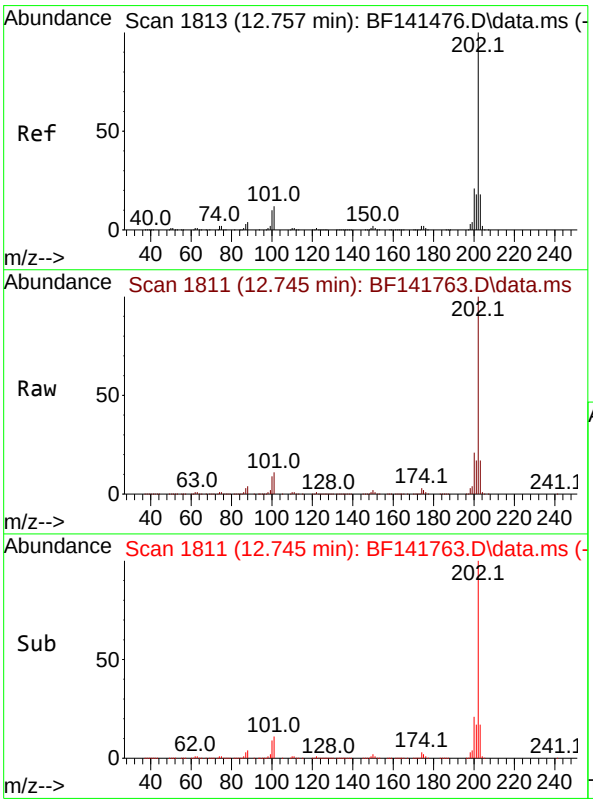
Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.3	16.9
183	12.4	9.3	13.9

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

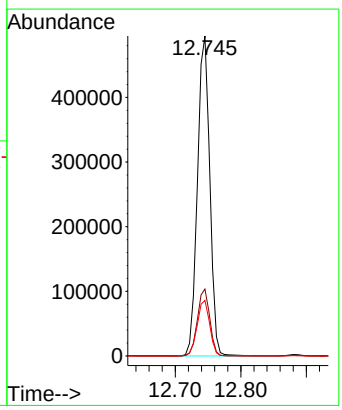


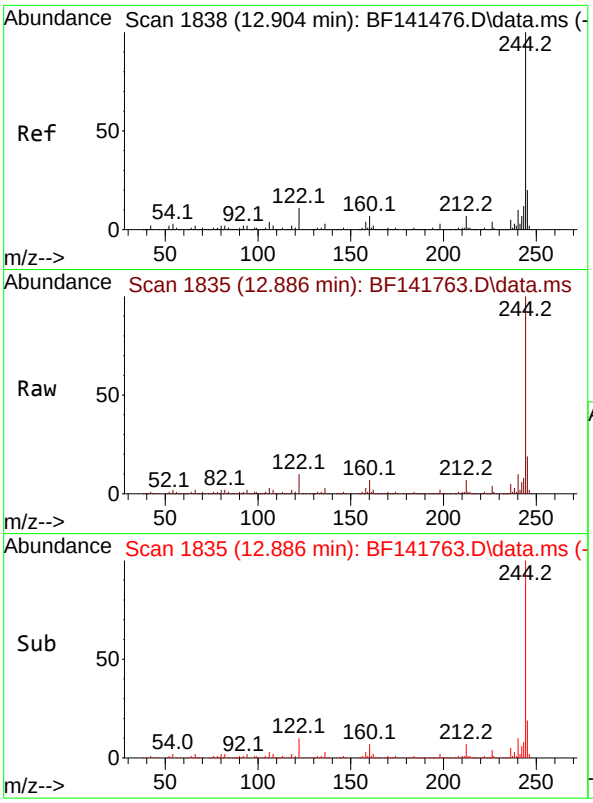


#78
Pyrene
Concen: 44.406 ng
RT: 12.745 min Scan# 1811
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:202 Resp: 649308

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.3	14.3	21.5

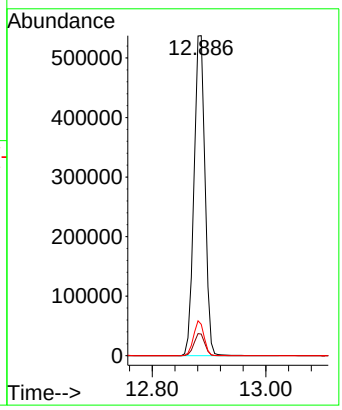




#79
Terphenyl-d14
Concen: 71.322 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:244 Resp: 72569

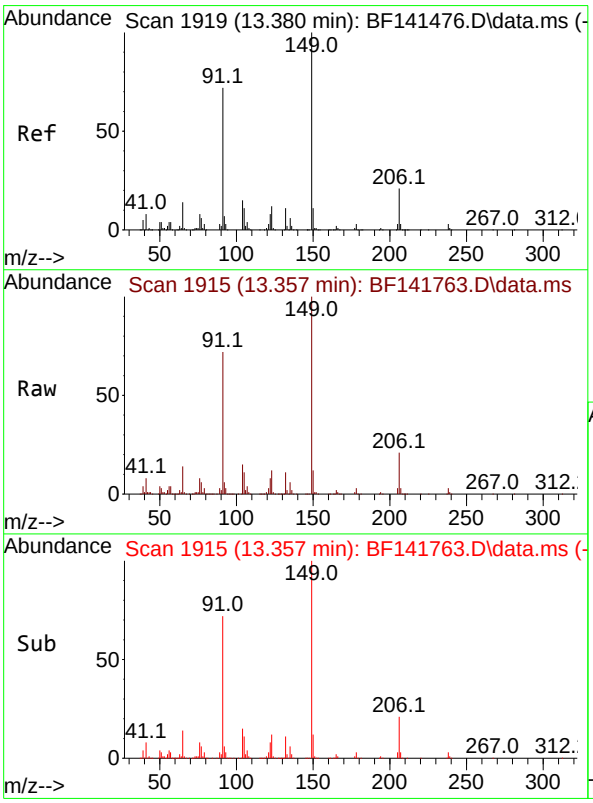
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	9.8	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

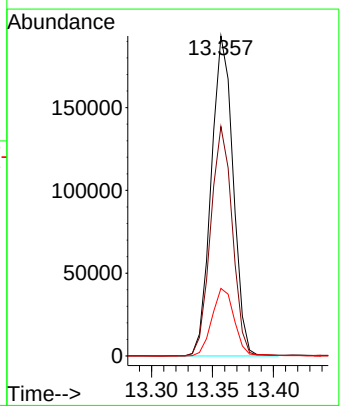
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

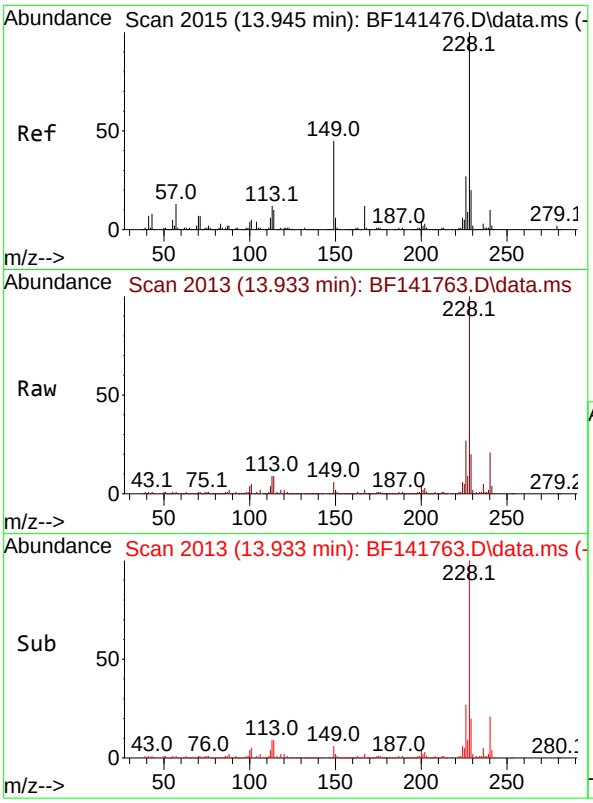


#80
Butylbenzylphthalate
Concen: 47.735 ng
RT: 13.357 min Scan# 1915
Delta R.T. -0.023 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:149 Resp: 241762

Ion	Ratio	Lower	Upper
149	100		
91	71.7	57.8	86.8
206	21.1	16.7	25.1

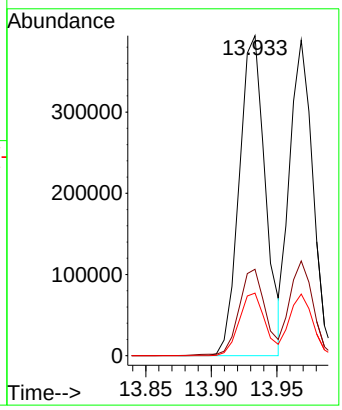




#81
Benzo(a)anthracene
Concen: 47.859 ng
RT: 13.933 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:228 Resp: 54646

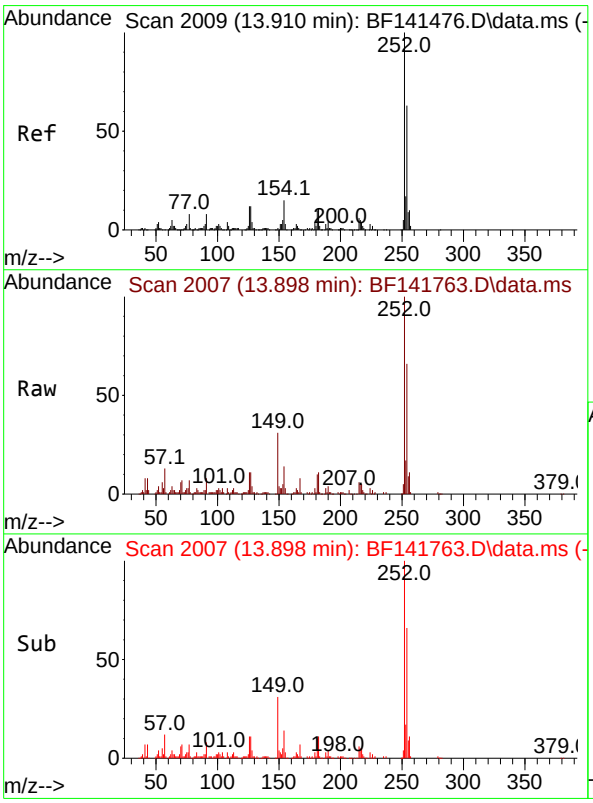
Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.8	32.8
229	19.5	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

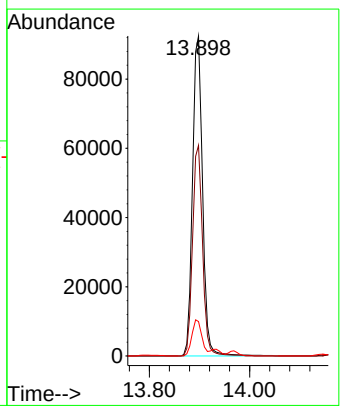
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

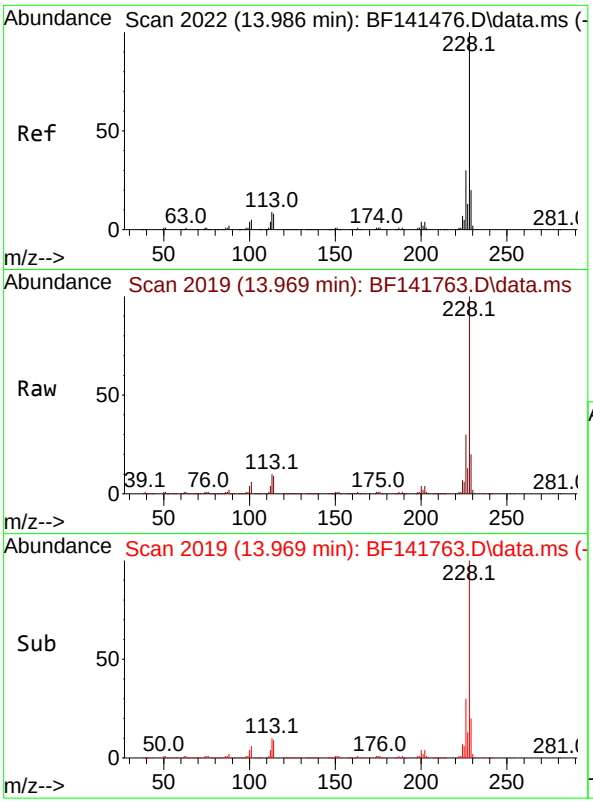


#82
3,3'-Dichlorobenzidine
Concen: 39.267 ng
RT: 13.898 min Scan# 2007
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:252 Resp: 128432

Ion	Ratio	Lower	Upper
252	100		
254	65.8	50.6	76.0
126	10.8	9.3	13.9

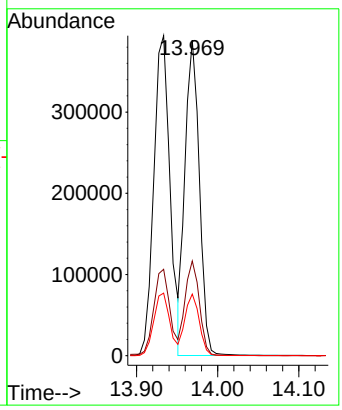




#83
Chrysene
Concen: 45.380 ng
RT: 13.969 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:228 Resp: 47843

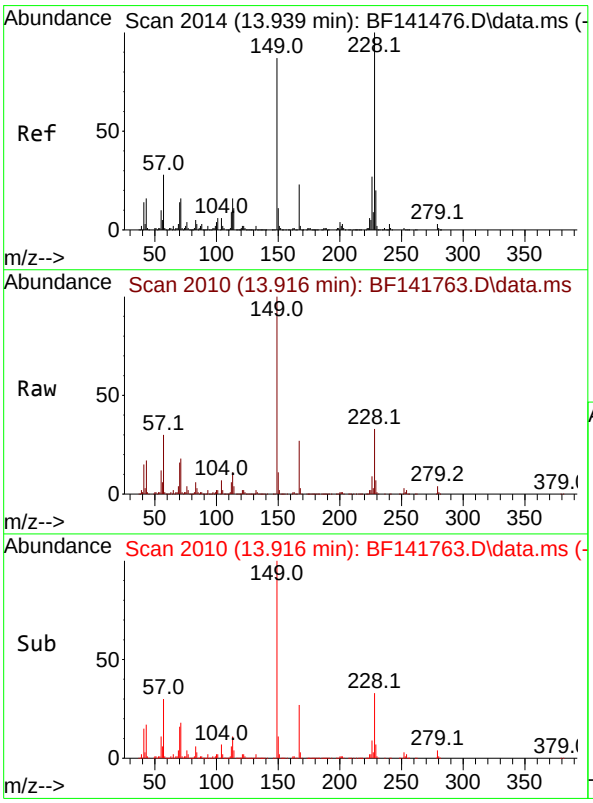
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.0	36.0
229	19.5	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

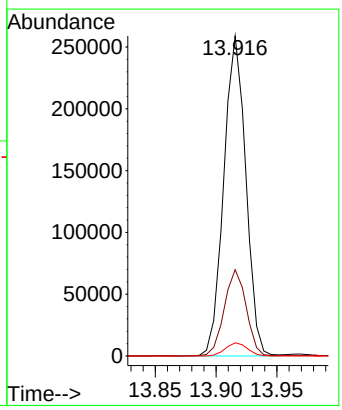
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

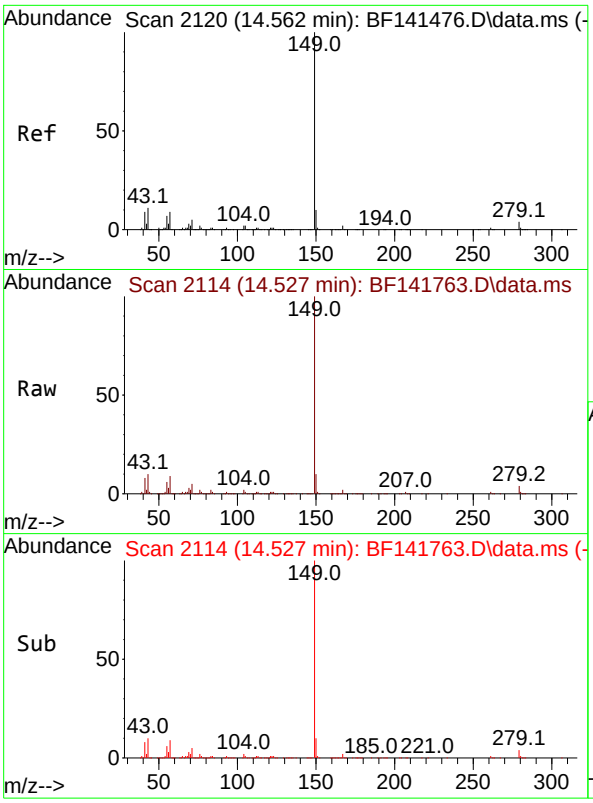


#84
Bis(2-ethylhexyl)phthalate
Concen: 57.076 ng
RT: 13.916 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:149 Resp: 326027

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.4	32.0
279	4.1	3.1	4.7

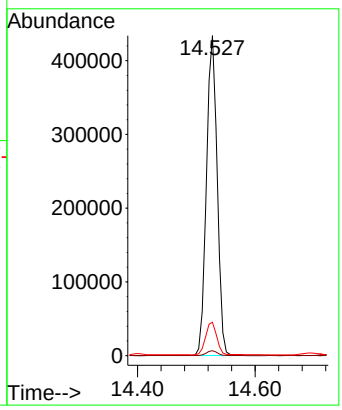




#85
Di-n-octyl phthalate
Concen: 67.475 ng
RT: 14.527 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:149 Resp: 54985

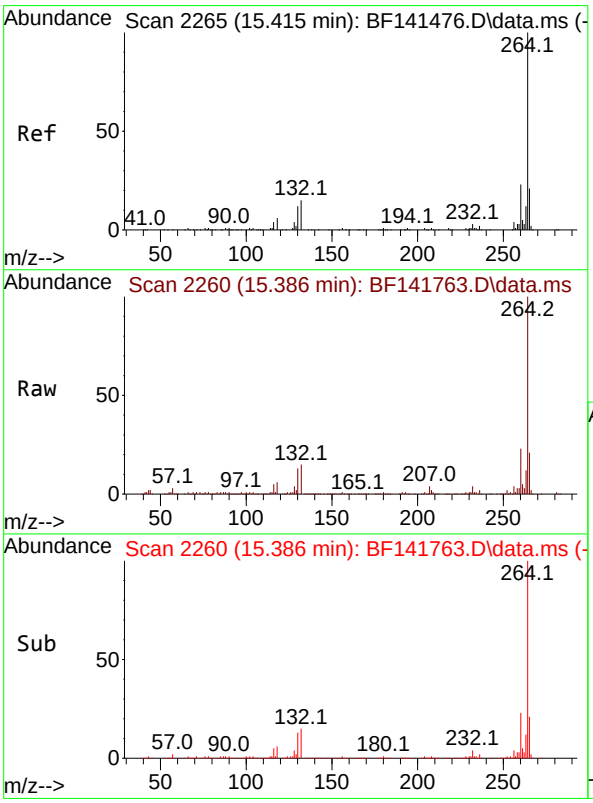
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	10.8	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

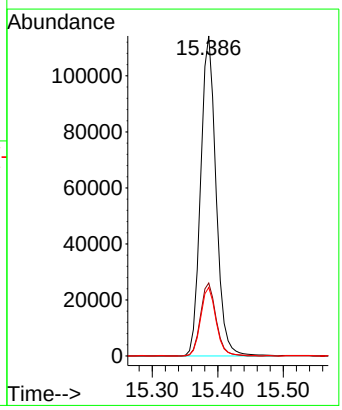
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

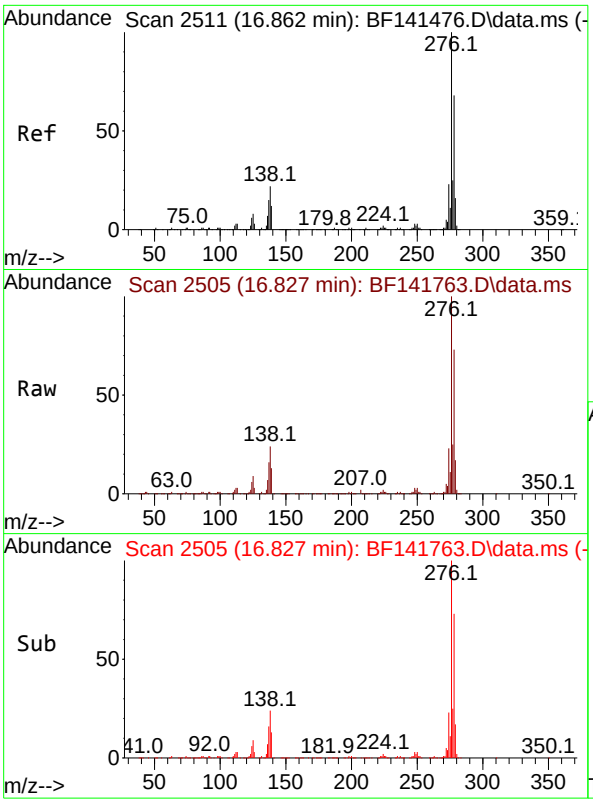


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:264 Resp: 186973

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.4	17.0	25.4

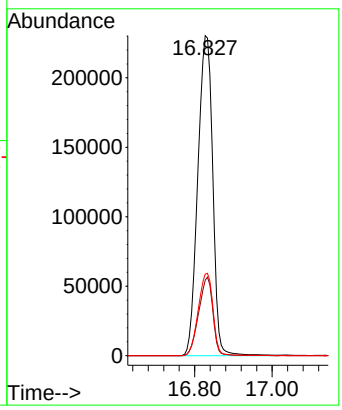




#87
Indeno(1,2,3-cd)pyrene
Concen: 53.250 ng
RT: 16.827 min Scan# 2
Delta R.T. -0.047 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:276 Resp: 61519

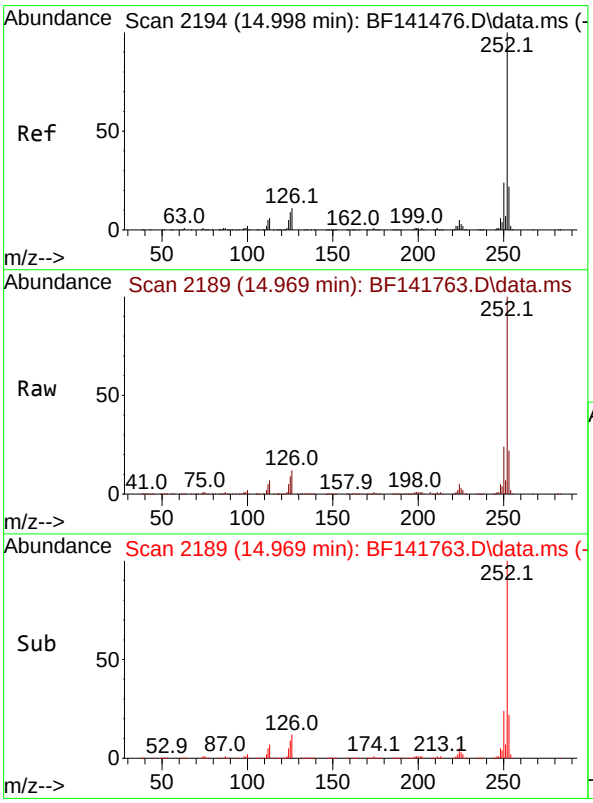
Ion	Ratio	Lower	Upper
276	100		
138	23.3	18.0	27.0
277	25.4	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

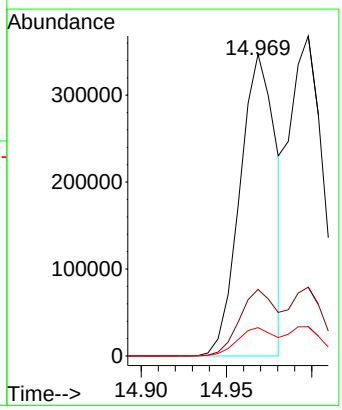
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

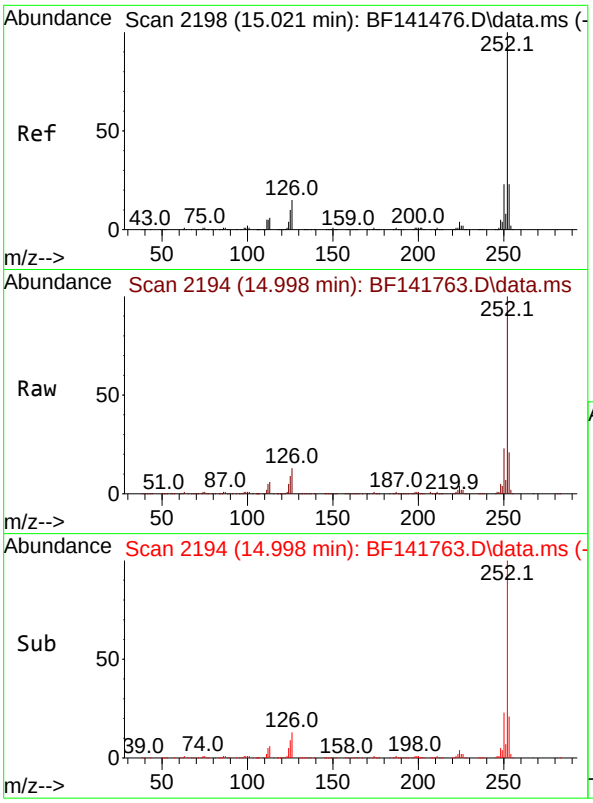


#88
Benzo(b)fluoranthene
Concen: 40.312 ng
RT: 14.969 min Scan# 2189
Delta R.T. -0.035 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:252 Resp: 506088

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.4	7.0	10.6





#89
Benzo(k)fluoranthene
Concen: 47.144 ng
RT: 14.998 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

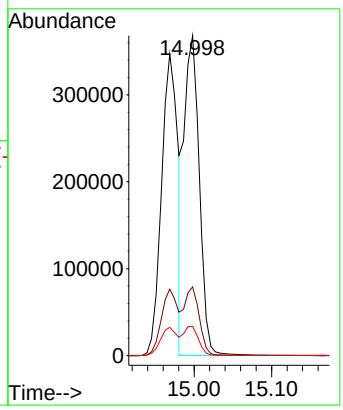
Tgt Ion:252 Resp: 505399

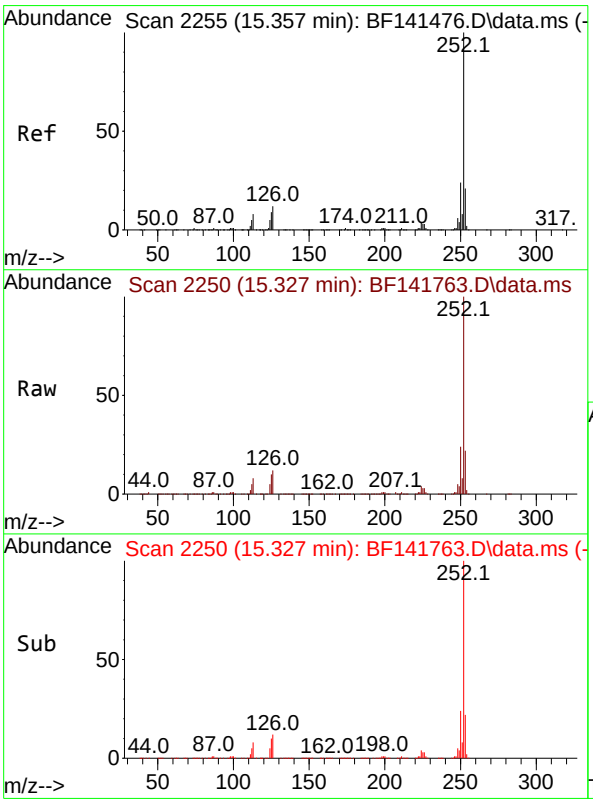
Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.0	27.0
125	9.2	7.4	11.0

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

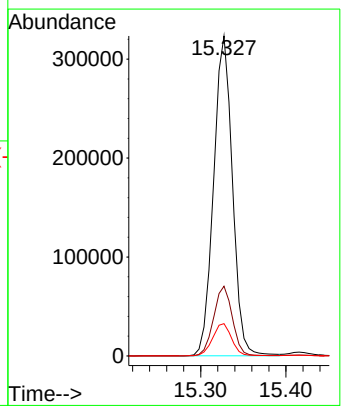


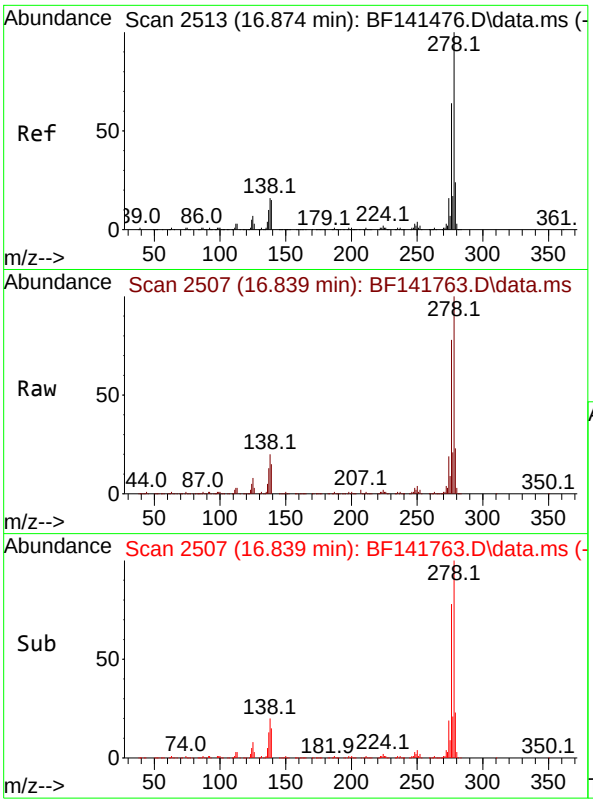


#90
Benzo(a)pyrene
Concen: 49.012 ng
RT: 15.327 min Scan# 2250
Delta R.T. -0.035 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:252 Resp: 497890

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	10.1	7.4	11.2

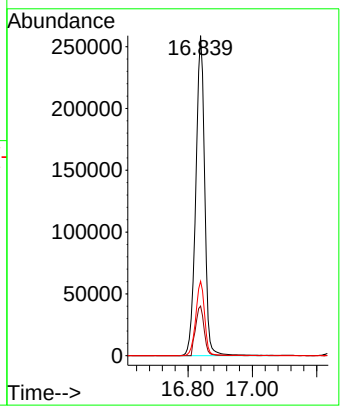




#91
Dibenzo(a,h)anthracene
Concen: 53.059 ng
RT: 16.839 min Scan# 2
Delta R.T. -0.053 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:278 Resp: 49669

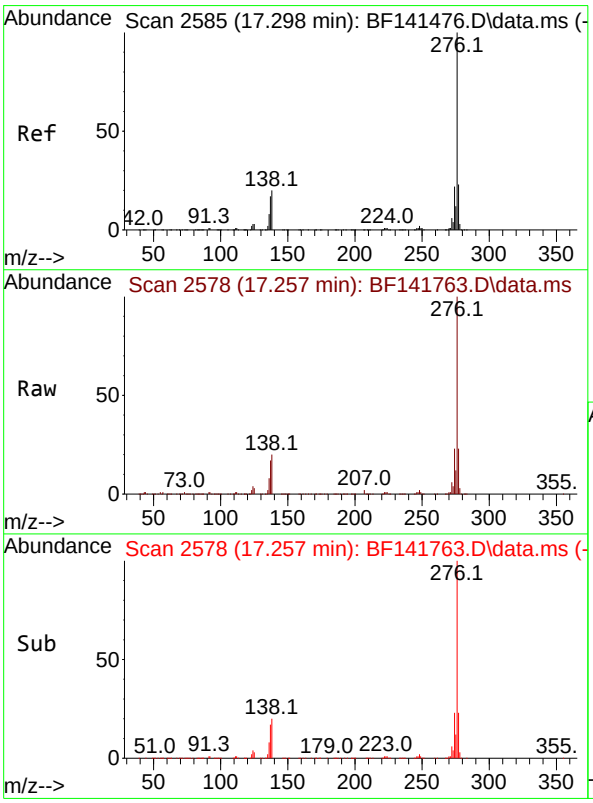
Ion	Ratio	Lower	Upper
278	100		
139	15.5	11.8	17.6
279	23.3	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

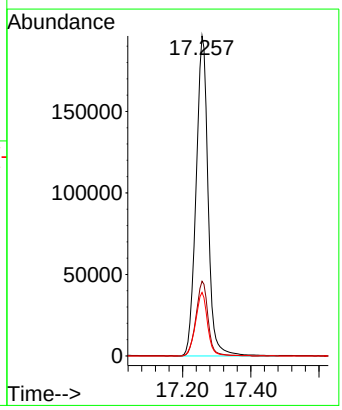
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 48.968 ng
RT: 17.257 min Scan# 2578
Delta R.T. -0.059 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:276 Resp: 479696

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	19.9	15.9	23.9



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

Manual Integration Report

Sequence:	bf020625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF141474.D	Acenaphthene	Jagrut	2/7/2025 3:49:22 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software
SSTDICC020	BF141475.D	Acenaphthene	Jagrut	2/7/2025 3:49:24 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF022525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1421-02MS	BF141762.D	Caprolactam	anahy	2/26/2025 11:12:43 AM	mohammad	2/28/2025 7:32:59 AM	Peak Integrated by Software
Q1421-03MSD	BF141763.D	Caprolactam	anahy	2/26/2025 11:13:27 AM	mohammad	2/28/2025 7:32:59 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF022625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166853BS	BF141777.D	Caprolactam	anahy	2/27/2025 10:06:47 AM	Jagrut	2/27/2025 12:19:42 PM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM				
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM				
SubDirectory	BF020625	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
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	BF141471.D	06 Feb 2025 10:41	RC/JU	Ok
2	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07	RC/JU	Ok
3	SSTDICC005	BF141473.D	06 Feb 2025 11:34	RC/JU	Ok
4	SSTDICC010	BF141474.D	06 Feb 2025 12:00	RC/JU	Ok,M
5	SSTDICC020	BF141475.D	06 Feb 2025 12:26	RC/JU	Ok,M
6	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	RC/JU	Ok
7	SSTDICC050	BF141477.D	06 Feb 2025 13:21	RC/JU	Ok
8	SSTDICC060	BF141478.D	06 Feb 2025 13:47	RC/JU	Ok
9	SSTDICC080	BF141479.D	06 Feb 2025 14:14	RC/JU	Ok
10	SSTDICV040	BF141480.D	06 Feb 2025 15:03	RC/JU	Ok
11	PB166563BL	BF141481.D	06 Feb 2025 15:43	RC/JU	Ok
12	PB166468BS	BF141482.D	06 Feb 2025 16:09	RC/JU	Ok,M
13	PB166468BSD	BF141483.D	06 Feb 2025 16:36	RC/JU	Ok,M
14	PB166468BL	BF141484.D	06 Feb 2025 17:02	RC/JU	Ok
15	Q1214-01RE	BF141485.D	06 Feb 2025 17:34	RC/JU	Confirms
16	Q1309-01	BF141486.D	06 Feb 2025 18:00	RC/JU	Ok
17	Q1309-05	BF141487.D	06 Feb 2025 18:27	RC/JU	Ok
18	Q1309-09	BF141488.D	06 Feb 2025 18:53	RC/JU	Ok
19	Q1309-13	BF141489.D	06 Feb 2025 19:19	RC/JU	Ok
20	Q1309-13MS	BF141490.D	06 Feb 2025 19:45	RC/JU	Ok,M
21	Q1309-13MSD	BF141491.D	06 Feb 2025 20:11	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 # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM				
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM				
SubDirectory	BF020625	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1309-17	BF141492.D	06 Feb 2025 20:37	RC/JU	Ok
23	Q1309-21	BF141493.D	06 Feb 2025 21:03	RC/JU	Ok
24	Q1216-04	BF141494.D	06 Feb 2025 21:30	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM				
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM				
SubDirectory	BF022525	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141754.D	25 Feb 2025 09:06	RC/JU	Ok
2	SSTDCCC040	BF141755.D	25 Feb 2025 10:34	RC/JU	Ok
3	PB166840BL	BF141756.D	25 Feb 2025 11:04	RC/JU	Ok
4	PB166840BS	BF141757.D	25 Feb 2025 11:33	RC/JU	Ok,M
5	PB166843BL	BF141758.D	25 Feb 2025 12:03	RC/JU	Ok
6	PB166843BS	BF141759.D	25 Feb 2025 12:33	RC/JU	Ok,M
7	PB166824TB	BF141760.D	25 Feb 2025 13:02	RC/JU	Ok
8	Q1421-01	BF141761.D	25 Feb 2025 13:37	RC/JU	Ok
9	Q1421-02MS	BF141762.D	25 Feb 2025 14:07	RC/JU	Ok,M
10	Q1421-03MSD	BF141763.D	25 Feb 2025 14:36	RC/JU	Ok,M
11	Q1421-07	BF141764.D	25 Feb 2025 15:06	RC/JU	Ok
12	Q1421-09	BF141765.D	25 Feb 2025 15:35	RC/JU	Ok
13	Q1415-04	BF141766.D	25 Feb 2025 16:05	RC/JU	Ok
14	Q1415-03	BF141767.D	25 Feb 2025 16:35	RC/JU	Ok
15	Q1415-02	BF141768.D	25 Feb 2025 17:05	RC/JU	Ok
16	Q1415-01	BF141769.D	25 Feb 2025 17:34	RC/JU	Ok
17	Q1420-01	BF141770.D	25 Feb 2025 18:04	RC/JU	Ok
18	Q1420-05	BF141771.D	25 Feb 2025 18:34	RC/JU	ReRun
19	Q1416-01	BF141772.D	25 Feb 2025 19:03	RC/JU	Ok
20	Q1418-01	BF141773.D	25 Feb 2025 19:33	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 # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM				
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM				
SubDirectory	BF022625	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141774.D	26 Feb 2025 10:16	RC/JU	Ok
2	SSTDCCC040	BF141775.D	26 Feb 2025 10:45	RC/JU	Ok
3	PB166853BL	BF141776.D	26 Feb 2025 11:49	RC/JU	Ok
4	PB166853BS	BF141777.D	26 Feb 2025 12:19	RC/JU	Ok,M
5	PB166870BL	BF141778.D	26 Feb 2025 12:56	RC/JU	Ok
6	PB166870BS	BF141779.D	26 Feb 2025 13:26	RC/JU	Ok,M
7	PB166875BL	BF141780.D	26 Feb 2025 13:55	RC/JU	Ok
8	PB166875BS	BF141781.D	26 Feb 2025 14:24	RC/JU	Ok,M
9	PB166875BSD	BF141782.D	26 Feb 2025 14:54	RC/JU	Ok,M
10	Q1422-01	BF141783.D	26 Feb 2025 15:29	RC/JU	Ok
11	Q1422-01MS	BF141784.D	26 Feb 2025 15:59	RC/JU	Ok,M
12	Q1422-01MSD	BF141785.D	26 Feb 2025 16:28	RC/JU	Ok,M
13	Q1422-02	BF141786.D	26 Feb 2025 16:57	RC/JU	Ok
14	Q1415-06	BF141787.D	26 Feb 2025 17:27	RC/JU	Ok
15	Q1415-05	BF141788.D	26 Feb 2025 17:56	RC/JU	Ok
16	Q1427-01	BF141789.D	26 Feb 2025 18:25	RC/JU	Ok,M
17	Q1420-05	BF141790.D	26 Feb 2025 18:55	RC/JU	Ok
18	Q1428-01	BF141791.D	26 Feb 2025 19:25	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 # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
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	BF141471.D	06 Feb 2025 10:41		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141473.D	06 Feb 2025 11:34	Compound #32,41,54 and #65 removed from 5PPM	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF141474.D	06 Feb 2025 12:00		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141475.D	06 Feb 2025 12:26		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	The Calibration is Good For 8270 DOD and good for 625.1 Method	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF141477.D	06 Feb 2025 13:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF141478.D	06 Feb 2025 13:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141479.D	06 Feb 2025 14:14	Compound #9 removed from 80ppm	RC/JU	Ok
10	SSTDICV040	ICVBF020625	BF141480.D	06 Feb 2025 15:03		RC/JU	Ok
11	PB166563BL	PB166563BL	BF141481.D	06 Feb 2025 15:43		RC/JU	Ok
12	PB166468BS	PB166468BS	BF141482.D	06 Feb 2025 16:09		RC/JU	Ok,M
13	PB166468BSD	PB166468BSD	BF141483.D	06 Feb 2025 16:36		RC/JU	Ok,M
14	PB166468BL	PB166468BL	BF141484.D	06 Feb 2025 17:02		RC/JU	Ok
15	Q1214-01RE	PARAMUS-CONDENS/	BF141485.D	06 Feb 2025 17:34	Surrogate Fail	RC/JU	Confirms
16	Q1309-01	WC-2	BF141486.D	06 Feb 2025 18:00		RC/JU	Ok
17	Q1309-05	WC-3	BF141487.D	06 Feb 2025 18:27		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 # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1309-09	WC-4	BF141488.D	06 Feb 2025 18:53		RC/JU	Ok
19	Q1309-13	WC-5	BF141489.D	06 Feb 2025 19:19		RC/JU	Ok
20	Q1309-13MS	WC-5MS	BF141490.D	06 Feb 2025 19:45		RC/JU	Ok,M
21	Q1309-13MSD	WC-5MSD	BF141491.D	06 Feb 2025 20:11		RC/JU	Ok,M
22	Q1309-17	WC-6	BF141492.D	06 Feb 2025 20:37		RC/JU	Ok
23	Q1309-21	WC-8	BF141493.D	06 Feb 2025 21:03		RC/JU	Ok
24	Q1216-04	JPP-18.1-012825	BF141494.D	06 Feb 2025 21:30		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM		
SubDirectory	BF022525	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/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	BF141754.D	25 Feb 2025 09:06		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141755.D	25 Feb 2025 10:34		RC/JU	Ok
3	PB166840BL	PB166840BL	BF141756.D	25 Feb 2025 11:04		RC/JU	Ok
4	PB166840BS	PB166840BS	BF141757.D	25 Feb 2025 11:33		RC/JU	Ok,M
5	PB166843BL	PB166843BL	BF141758.D	25 Feb 2025 12:03		RC/JU	Ok
6	PB166843BS	PB166843BS	BF141759.D	25 Feb 2025 12:33		RC/JU	Ok,M
7	PB166824TB	PB166824TB	BF141760.D	25 Feb 2025 13:02		RC/JU	Ok
8	Q1421-01	P001-CLAY-CF01-01	BF141761.D	25 Feb 2025 13:37		RC/JU	Ok
9	Q1421-02MS	P001-CLAY-CF01-01M	BF141762.D	25 Feb 2025 14:07		RC/JU	Ok,M
10	Q1421-03MSD	P001-CLAY-CF01-01M	BF141763.D	25 Feb 2025 14:36		RC/JU	Ok,M
11	Q1421-07	P001-CLAY-CF01-02	BF141764.D	25 Feb 2025 15:06		RC/JU	Ok
12	Q1421-09	P001-CLAY-CF02-01	BF141765.D	25 Feb 2025 15:35		RC/JU	Ok
13	Q1415-04	B-172-SB02	BF141766.D	25 Feb 2025 16:05		RC/JU	Ok
14	Q1415-03	B-163-SB02	BF141767.D	25 Feb 2025 16:35		RC/JU	Ok
15	Q1415-02	B-172-SB01	BF141768.D	25 Feb 2025 17:05		RC/JU	Ok
16	Q1415-01	B-163-SB01	BF141769.D	25 Feb 2025 17:34		RC/JU	Ok
17	Q1420-01	TP-1-WC	BF141770.D	25 Feb 2025 18:04		RC/JU	Ok
18	Q1420-05	TP-2-WC	BF141771.D	25 Feb 2025 18:34	Internal Standard Fail	RC/JU	ReRun

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 # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM		
SubDirectory	BF022525	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1416-01	OK-01-022425	BF141772.D	25 Feb 2025 19:03		RC/JU	Ok
20	Q1418-01	TR-06-02242025	BF141773.D	25 Feb 2025 19:33		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 # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM		
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM		
SubDirectory	BF022625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141774.D	26 Feb 2025 10:16		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141775.D	26 Feb 2025 10:45		RC/JU	Ok
3	PB166853BL	PB166853BL	BF141776.D	26 Feb 2025 11:49		RC/JU	Ok
4	PB166853BS	PB166853BS	BF141777.D	26 Feb 2025 12:19		RC/JU	Ok,M
5	PB166870BL	PB166870BL	BF141778.D	26 Feb 2025 12:56		RC/JU	Ok
6	PB166870BS	PB166870BS	BF141779.D	26 Feb 2025 13:26		RC/JU	Ok,M
7	PB166875BL	PB166875BL	BF141780.D	26 Feb 2025 13:55		RC/JU	Ok
8	PB166875BS	PB166875BS	BF141781.D	26 Feb 2025 14:24		RC/JU	Ok,M
9	PB166875BSD	PB166875BSD	BF141782.D	26 Feb 2025 14:54		RC/JU	Ok,M
10	Q1422-01	B-154-SB01	BF141783.D	26 Feb 2025 15:29		RC/JU	Ok
11	Q1422-01MS	B-154-SB01MS	BF141784.D	26 Feb 2025 15:59		RC/JU	Ok,M
12	Q1422-01MSD	B-154-SB01MSD	BF141785.D	26 Feb 2025 16:28		RC/JU	Ok,M
13	Q1422-02	B-154-SB02	BF141786.D	26 Feb 2025 16:57		RC/JU	Ok
14	Q1415-06	B-173-GW01	BF141787.D	26 Feb 2025 17:27		RC/JU	Ok
15	Q1415-05	FB02222025	BF141788.D	26 Feb 2025 17:56		RC/JU	Ok
16	Q1427-01	VNJ-227	BF141789.D	26 Feb 2025 18:25		RC/JU	Ok,M
17	Q1420-05	TP-2-WC	BF141790.D	26 Feb 2025 18:55		RC/JU	Ok
18	Q1428-01	NB-07-022525	BF141791.D	26 Feb 2025 19:25		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 # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM		
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM		
SubDirectory	BF022625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

PERCENT SOLID

Supervisor: nilesh
Analyst: Upendra
Date: 2/28/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 02/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134780

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1401-07	BP-VPB-192-GW-825-827	1	1.15	8.83	9.98	2.04	10.1	sludge sample
Q1401-08	BP-VPB-192-GW-860-862	2	1.13	8.65	9.78	1.93	9.2	sludge sample
Q1401-09	BP-VPB-192-GW-880-882	3	1.13	8.68	9.81	1.64	5.9	sludge sample
Q1403-05	SVOC-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1403-06	PEST-GPC-BLANK	5	1.00	1.00	2.00	2.00	100.0	
Q1403-07	PEST-GPC-BLANK-SPIKE	6	1.00	1.00	2.00	2.00	100.0	
Q1403-08	PCB-GPC-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q1403-09	PCB-GPC-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q1403-10	SVOC-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1403-11	PEST-GPC2-BLANK	10	1.00	1.00	2.00	2.00	100.0	
Q1403-12	PEST-GPC2-BLANK-SPIKE	11	1.00	1.00	2.00	2.00	100.0	
Q1403-13	PCB-GPC2-BLANK	12	1.00	1.00	2.00	2.00	100.0	
Q1403-14	PCB-GPC2-BLANK-SPIKE	13	1.00	1.00	2.00	2.00	100.0	
Q1407-01	022125	14	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1411-01	HR-02-02212025	15	1.16	8.48	9.64	9.09	93.5	
Q1411-02	HR-02-02212025-E2	16	1.15	8.70	9.85	9.12	91.6	
Q1411-03	HR-03-02212025	17	1.15	8.81	9.96	9.2	91.4	
Q1411-04	HR-03-02212025-E2	18	1.14	8.43	9.57	8.93	92.4	
Q1412-01	GAS-FUEL-ISLAND-MAT	19	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1413-01	BU-2-022125	20	1.18	8.58	9.76	9.28	94.4	
Q1413-02	BU-2-022125	21	1.19	8.45	9.64	9.22	95.0	
Q1414-01	BUR-1316	22	1.12	8.78	9.9	6.68	63.3	
Q1415-01	B-163-SB01	23	1.15	8.80	9.95	8.94	88.5	
Q1415-02	B-172-SB01	24	1.17	8.60	9.77	8.62	86.6	
Q1415-03	B-163-SB02	25	1.13	8.85	9.98	7.54	72.4	
Q1415-04	B-172-SB02	26	1.18	8.77	9.95	9.05	89.7	
Q1416-01	OK-01-022425	27	1.15	8.48	9.63	8.58	87.6	
Q1416-02	OK-01-022425-E2	28	1.16	8.69	9.85	8.77	87.6	

PERCENT SOLID

Supervisor: nilesh
Analyst: Upendra
Date: 2/28/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 02/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134780

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1418-01	TR-06-02242025	35	1.15	8.71	9.86	8.87	88.6	
Q1418-02	TR-06-02242025-E2	36	1.12	8.75	9.87	8.76	87.3	
Q1420-01	TP-1-WC	29	1.15	8.82	9.97	9.04	89.5	
Q1420-02	TP-1-WC-EPH	30	1.12	8.76	9.88	8.96	89.5	
Q1420-03	TP-1-WC-VOC	31	1.14	8.85	9.99	9.18	90.8	
Q1420-05	TP-2-WC	32	1.15	8.62	9.77	8.79	88.6	
Q1420-06	TP-2-WC-EPH	33	1.15	8.40	9.55	8.63	89.0	
Q1420-07	TP-2-WC-VOC	34	1.14	8.85	9.99	9.00	88.8	
Q1421-01	P001-CLAY-CF01-01	37	1.17	8.60	9.77	7.22	70.3	
Q1421-02	Q1421-01MS	38	1.17	8.60	9.77	7.22	70.3	
Q1421-03	Q1421-01MSD	39	1.17	8.60	9.77	7.22	70.3	
Q1421-04	P001-CLAY-CF01-01	40	1.17	8.60	9.77	9.77	100.0	
Q1421-05	Q1421-04MS	41	1.17	8.60	9.77	9.77	100.0	
Q1421-06	Q1421-04MSD	42	1.17	8.60	9.77	9.77	100.0	
Q1421-07	P001-CLAY-CF01-02	43	1.12	8.55	9.67	7.55	75.2	
Q1421-08	P001-CLAY-CF01-02	44	1.12	8.55	9.67	9.67	100.0	
Q1421-09	P001-CLAY-CF02-01	45	1.11	8.74	9.85	7.96	78.4	
Q1421-10	P001-CLAY-CF02-01	46	1.11	8.74	9.85	9.85	100.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB134780

WorkList Name : %1-022425 **WorkList ID :** 187836 **Department :** Wet-Chemistry **Date :** 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1401-07	BP-VPB-192-GW-825-827	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1401-08	BP-VPB-192-GW-860-862	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1401-09	BP-VPB-192-GW-880-882	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1403-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1407-01	022125	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1411-01	HR-02-02212025	Solid	Percent Solids	Cool 4 deg C	PSEG03	H23	02/21/2025	Chemtech -SO
Q1411-02	HR-02-02212025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1411-03	HR-03-02212025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1411-04	HR-03-02212025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1412-01	GAS-FUEL-ISLAND-MAT	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1413-01	BU-2-022125	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/21/2025	Chemtech -SO
Q1413-02	BU-2-022125	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
					PSEG05	H31	02/21/2025	Chemtech -SO

Date/Time 02/24/25 15:25

Raw Sample Received by: JP (WDC)

Raw Sample Relinquished by: [signature]

Date/Time 02/24/25 17:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JP (WDC)

WORKLIST(Hardcopy Internal Chain)

VH 134780

WorkList Name : %1-022425 **WorkList ID :** 187836 **Department :** Wet-Chemistry **Date :** 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1414-01	BUR-1316	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/21/2025	Chemtech -SO
Q1415-01	B-163-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-02	B-172-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-03	B-163-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-04	B-172-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1416-01	OK-01-022425	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/24/2025	Chemtech -SO
Q1416-02	OK-01-022425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/24/2025	Chemtech -SO
Q1418-01	TR-06-02242025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H41	02/24/2025	Chemtech -SO
Q1418-02	TR-06-02242025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H41	02/24/2025	Chemtech -SO
Q1420-01	TP-1-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-02	TP-1-WC-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-03	TP-1-WC-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-05	TP-2-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-06	TP-2-WC-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-07	TP-2-WC-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1421-01	P001-CLAY-CF01-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-02	Q1421-01MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-03	Q1421-01MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-04	P001-CLAY-CF01-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-05	Q1421-04MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-06	Q1421-04MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO

Date/Time 02/24/25 15:25

Raw Sample Received by: JR WDC

Raw Sample Relinquished by: [signature]

Date/Time 02/24/25 17:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JR WDC

WORKLIST(Hardcopy Internal Chain)

VR134780

WorkList Name : %1-022425 **WorkList ID :** 187836 **Department :** Wet-Chemistry **Date :** 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1421-07	P001-CLAY-CF01-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-08	P001-CLAY-CF01-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-09	P001-CLAY-CF02-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-10	P001-CLAY-CF02-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO

Date/Time 02/24/25 15:25

Raw Sample Received by: JR Wolf

Raw Sample Relinquished by: [signature]

Date/Time 02/24/25 17:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JR Wolf

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166853

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 02/25/2025

Extraction Start Time : 09:30

Extraction End Date : 02/25/2025

Extraction End Time : 12:30

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
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
MeCl2/Acetone/1:1	N/A	EP2582
Baked Na2SO4	N/A	EP2589
Methylene Chloride	N/A	E3878
Sand	N/A	E2865
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.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25	RS (Ext lab)	AC/SVOC
12:35	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166853

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 02/25/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166853BL	SBLK853	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			U2-1
PB166853BS	SLCS853	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			2
Q1415-01	B-163-SB01	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		3
Q1415-02	B-172-SB01	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		4
Q1415-03	B-163-SB02	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		5
Q1415-04	B-172-SB02	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		6
Q1416-01	OK-01-022425	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		U3-1
Q1418-01	TR-06-02242025	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		2
Q1420-01	TP-1-WC	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		3
Q1420-05	TP-2-WC	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		4
Q1421-01	P001-CLAY-CF01-01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		5
Q1421-02	Q1421-01MS	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
Q1421-03	Q1421-01MSD	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		U4-1
Q1421-07	P001-CLAY-CF01-02	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	F		2
Q1421-09	P001-CLAY-CF02-01	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		3

RS
2/25

*** Extracts relinquished on the same date as received.**

Q1421-SVOC-TCL BNA -20

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1416BN **WorkList ID :** 187863 **Department :** Extraction **Date :** 02-25-2025 08:37:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-01	B-163-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-02	B-172-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-03	B-163-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-04	B-172-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1416-01	OK-01-022425	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	N41	02/24/2025	8270E
Q1418-01	TR-06-02242025	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	H41	02/24/2025	8270E
Q1420-01	TP-1-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N41	02/24/2025	8270E
Q1420-05	TP-2-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N41	02/24/2025	8270E
Q1421-01	P001-CLAY-CF01-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-02	Q1421-01MS	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-03	Q1421-01MSD	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-07	P001-CLAY-CF01-02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-09	P001-CLAY-CF02-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E

Date/Time 2/25/25 9:25
Raw Sample Received by: RJ (EXT-lab)
Raw Sample Relinquished by: CP SM

Date/Time 2/25/25 9:55
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (EXT-lab)

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

Prep Standard - Chemical Standard Summary

Order ID : Q1421

Test : SVOC-TCL BNA -20

Prepbatch ID : PB166853,

Sequence ID/Qc Batch ID: BF022525,BF022625,

Standard ID :
EP2582,EP2589,SP6638,SP6685,SP6686,SP6717,SP6720,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,

Chemical ID :
10ul/1000ul sample,E2865,E3551,E3815,E3828,E3846,E3871,E3873,E3874,E3878,S10104,S10246,S10397,S10584,S10978,S10979,S10980,S11004,S11005,S11006,S11007,S11008,S11009,S11010,S11074,S11087,S11143,S11161,S11487,S11495,S11650,S11781,S11782,S11783,S11784,S11785,S12114,S12142,S12143,S12144,S12145,S12146,S12187,S12188,S12189,S12207,S12208,S12270,S12276,S12327,S12469,S12470,S12471,S12472,S12473,S12474,S12475,S12476,S12477,S12478,S12517,S12518,S12519,S12520,S12521,S12522,S12523,S12524,S12525,S12649,S12652,S12653,S12791,S12963,S12964,S12965,S12966,

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
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2582	02/04/2025	07/29/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 02/04/2025

FROM 8000.00000ml of E3873 + 8000.00000ml of E3874 = Final Quantity: 16000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2589	02/14/2025	07/01/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 02/14/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
18	Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP)	SP6685	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.04000ml of S12189 + 0.08000ml of S12208 + 0.10000ml of S11074 + 0.20000ml of S12142 + 0.20000ml of S12469 + 0.20000ml of S12517 + 1.18000ml of E3828 = Final Quantity: 2.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
416	40 ng BNA ICV, 40 PPM	SP6686	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6685 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
171	8270/625 Spike Solution, 50/100 PPM	SP6720	01/29/2025	04/30/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/06/2025

FROM 0.40000ml of S10397 + 0.40000ml of S10584 + 0.40000ml of S11143 + 0.40000ml of S11487 + 0.40000ml of S11650 + 0.40000ml of S12478 + 0.50000ml of S11781 + 0.50000ml of S12470 + 0.60000ml of S11785 + 0.90000ml of S12518 + 0.90000ml of S12966 + 1.30000ml of S11782 + 1.30000ml of S11783 + 1.30000ml of S11784 + 1.30000ml of S12143 + 1.30000ml of S12144 + 1.30000ml of S12145 + 1.30000ml of S12146 + 1.30000ml of S12471 + 1.30000ml of S12472 + 1.30000ml of S12473 + 1.30000ml of S12474 + 1.30000ml of S12475 + 1.30000ml of S12476 + 1.30000ml of S12477 + 1.30000ml of S12519 + 1.30000ml of S12520 + 1.30000ml of S12521 + 1.30000ml of S12522 + 1.30000ml of S12523 + 1.30000ml of S12524 + 1.30000ml of S12525 + 1.30000ml of S12963 + 1.30000ml of S12964 + 1.30000ml of S12965 + 163.00000ml of E3846 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3764	8270/625 Stock solution 100 ng	SP6721	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.26700ml of S10104 + 0.40000ml of S11495 + 0.50000ml of S12114 + 1.00000ml of S11087 + 1.00000ml of S11161 + 1.00000ml of S12270 + 1.00000ml of S12276 + 1.00000ml of S12791 + 3.83300ml of E3874 = Final Quantity: 10.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
413	80 ng BNA ICC, 80 PPM	SP6722	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.20000ml of E3874 + 0.80000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
412	60 ng BNA ICC, 60 PPM	SP6723	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.40000ml of E3874 + 0.60000ml of SP6721 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
411	50 ng BNA ICC, 50 PPM	SP6724	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
410	40 ng BNA ICC, 40 PPM	SP6725	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.60000ml of E3874 + 0.40000ml of SP6721 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3678	20 ng BNA ICC, 20 PPM	SP6726	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.80000ml of E3874 + 0.20000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
408	10 ng BNA ICC, 10 PPM	SP6727	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.90000ml of E3874 + 0.10000ml of SP6721 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
407	5 ng BNA ICC, 5 PPM	SP6728	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.95000ml of E3874 + 0.05000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
175	2.5 ng BNA ICC, 2.5 PPM	SP6729	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6728 = Final Quantity: 1.010 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

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-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	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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	05/31/2025	01/29/2025 / anahy	05/18/2022 / Christian	S10397

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	06/30/2025	01/29/2025 / anahy	07/05/2022 / Christian	S10584

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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	07/30/2025	01/30/2025 / anahy	02/07/2023 / Christian	S11087

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0194702	07/29/2025	01/29/2025 / anahy	02/20/2023 / Christian	S11143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	06/21/2025	01/30/2025 / anahy	03/06/2023 / Christian	S11161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0200549	08/31/2026	01/29/2025 / anahy	08/10/2023 / yogesh	S11487

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	06/26/2025	12/26/2024 / Jagrut	11/21/2023 / Rahul	S11781

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11783

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12146

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

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	S12188

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-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12276

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/12/2025	11/12/2024 / anahy	05/30/2024 / Rahul	S12327

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/26/2025	11/26/2024 / Jagrut	07/23/2024 / RAHUL	S12470

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12471

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12473

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	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12474

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12475

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12476

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12477

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/03/2025	01/03/2025 / Jagrut	07/23/2024 / RAHUL	S12518

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12520

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12523

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	07/21/2025	01/21/2025 / anahy	09/20/2024 / anahy	S12649

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	08/17/2025	02/17/2025 / anahy	09/20/2024 / anahy	S12652

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	08/25/2025	02/25/2025 / anahy	09/20/2024 / anahy	S12653

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12963

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12964

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12965

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG

S11084
to
S11088

*Not a certified value

Certified By: _____
Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110817-01	414125	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090 -04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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		1,003.6 µg/mL	+/- 5.8897 µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 211229RSR)		+/- 45.7132 µg/mL	Unstressed
	Purity 99%			+/- 66.0037 µg/mL	Stressed
2	DFTPP (Decafluorotriphenylphosphine)		1,006.6 µg/mL	+/- 5.9074 µg/mL	Gravimetric
	CAS # 5074-71-5	(Lot Q117-147)		+/- 45.8508 µg/mL	Unstressed
	Purity 95%			+/- 66.2023 µg/mL	Stressed
3	Benzidine		1,008.4 µg/mL	+/- 5.9179 µg/mL	Gravimetric
	CAS # 92-87-5	(Lot 211228JLM)		+/- 45.9318 µg/mL	Unstressed
	Purity 99%			+/- 66.3193 µg/mL	Stressed
4	4,4'-DDT		1,007.6 µg/mL	+/- 5.9132 µg/mL	Gravimetric
	CAS # 50-29-3	(Lot 210916JLM)		+/- 45.8954 µg/mL	Unstressed
	Purity 99%			+/- 66.2667 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

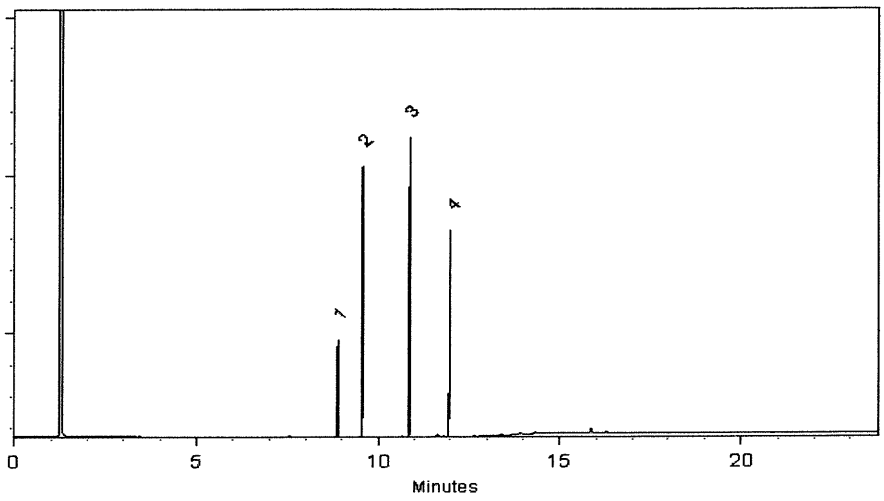
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

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®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

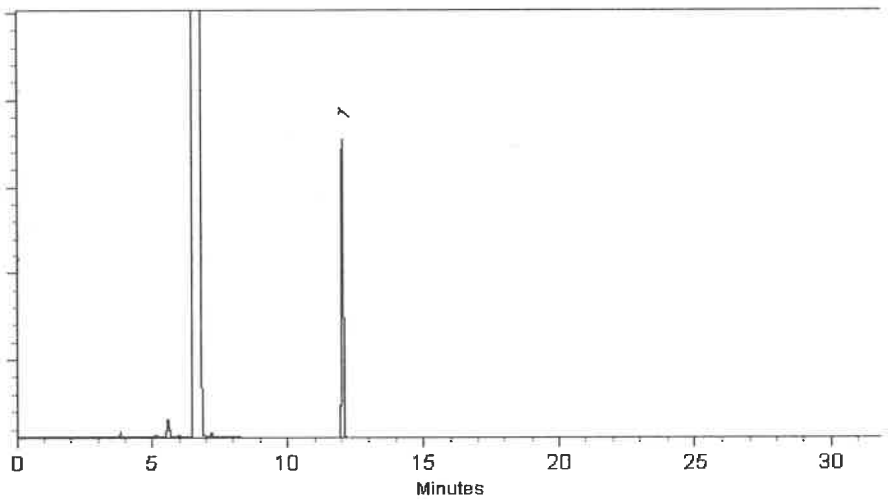
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (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)

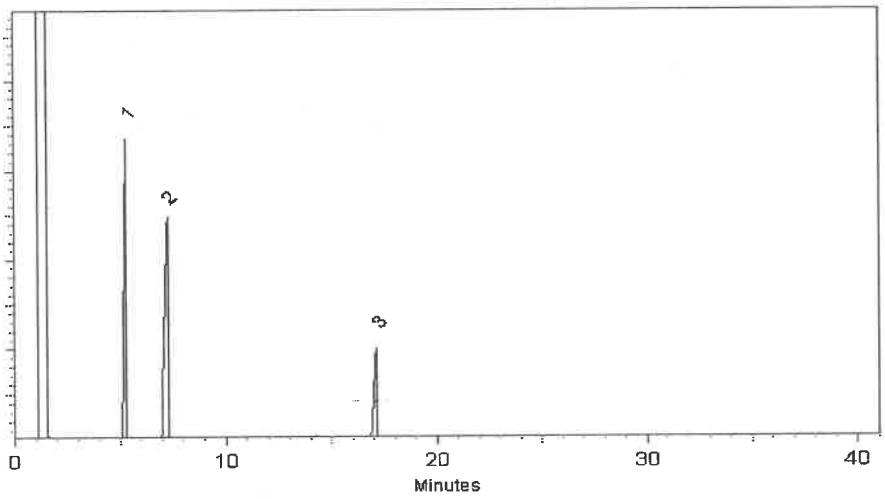
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

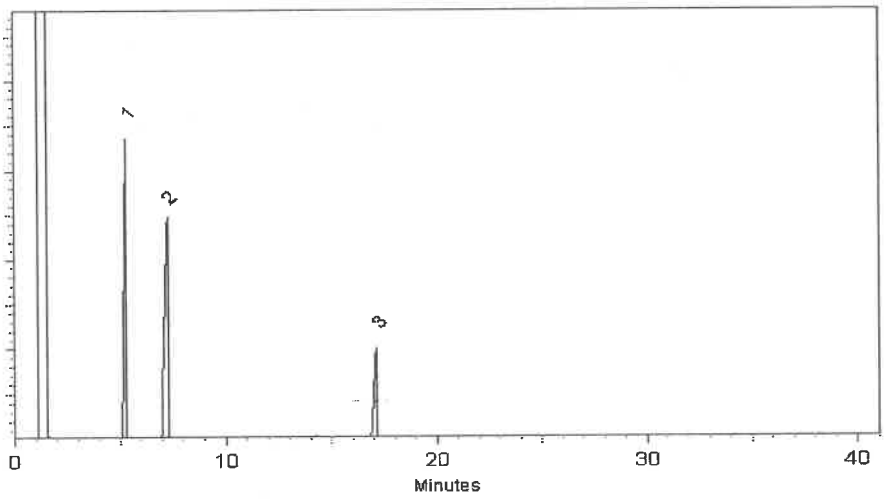
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

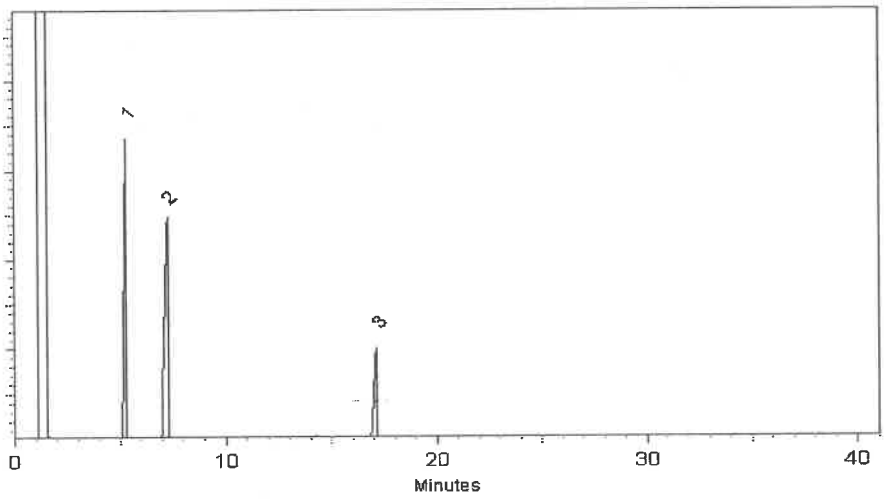
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

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)

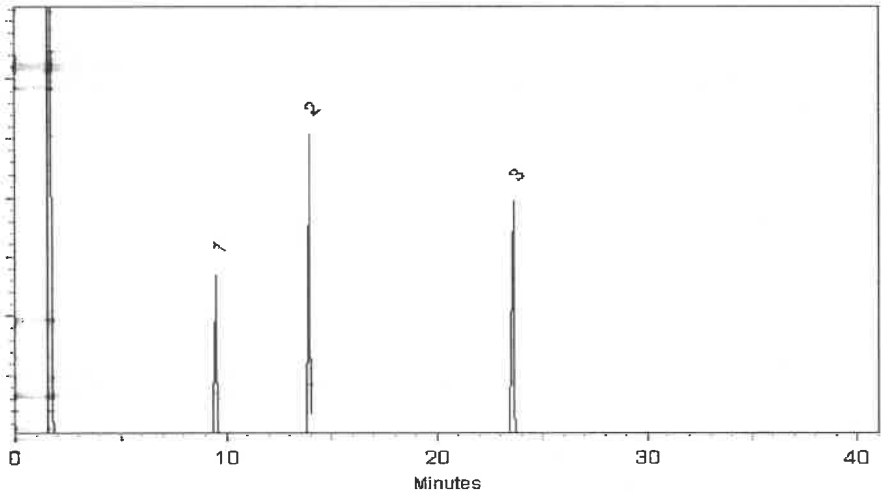
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

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 **Purity** 99%	(Lot PR-29940A)	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 **Purity** 99%	(Lot 00021384)	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 **Purity** 99%	(Lot PR-30504)	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)

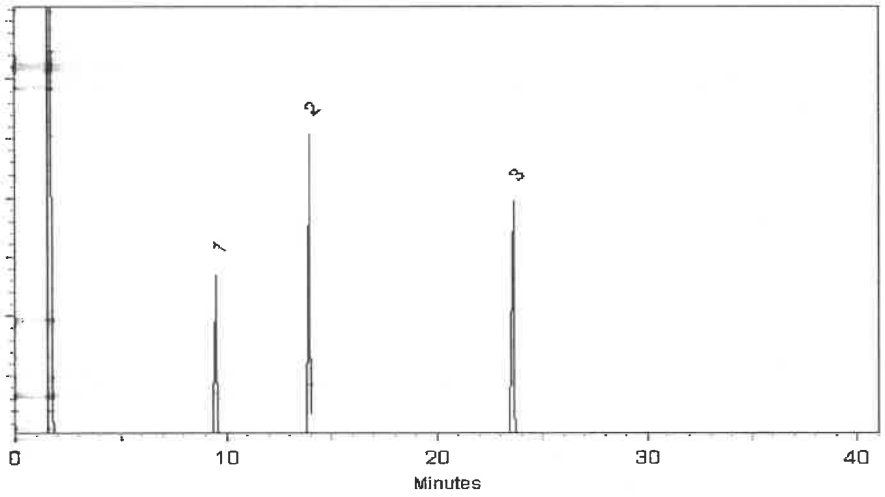
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

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 **Purity** 99%	(Lot PR-29940A)	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 **Purity** 99%	(Lot 00021384)	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 **Purity** 99%	(Lot PR-30504)	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)

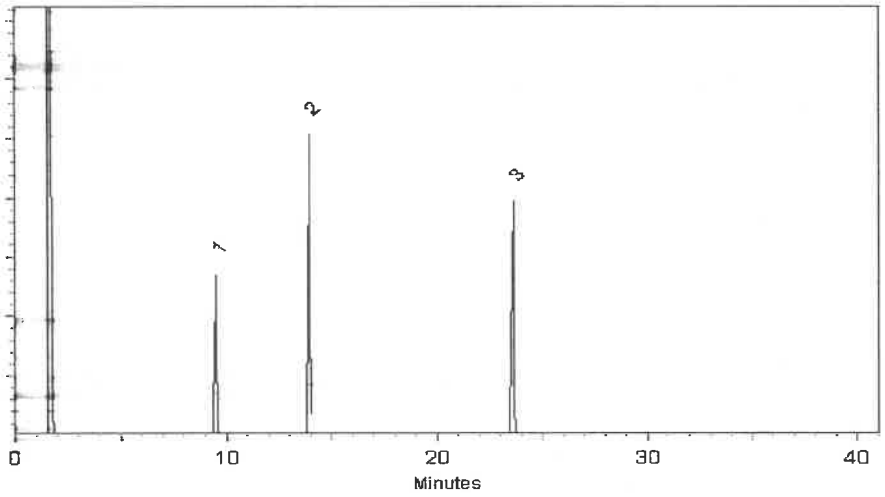
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

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)

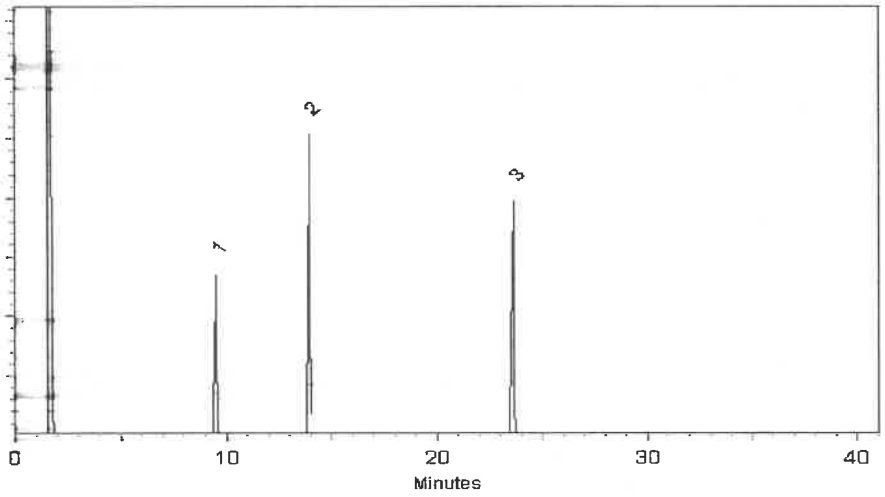
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

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 **Purity** 99%	(Lot PR-29940A)	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 **Purity** 99%	(Lot 00021384)	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 **Purity** 99%	(Lot PR-30504)	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)

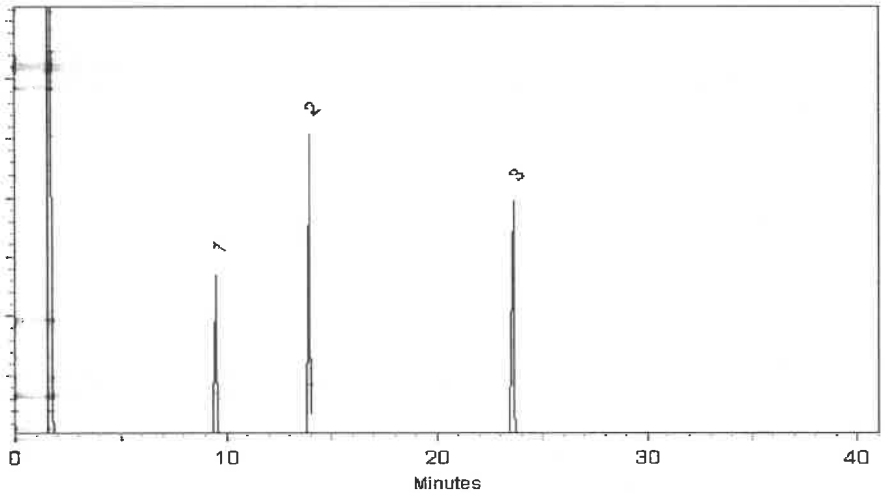
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

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)

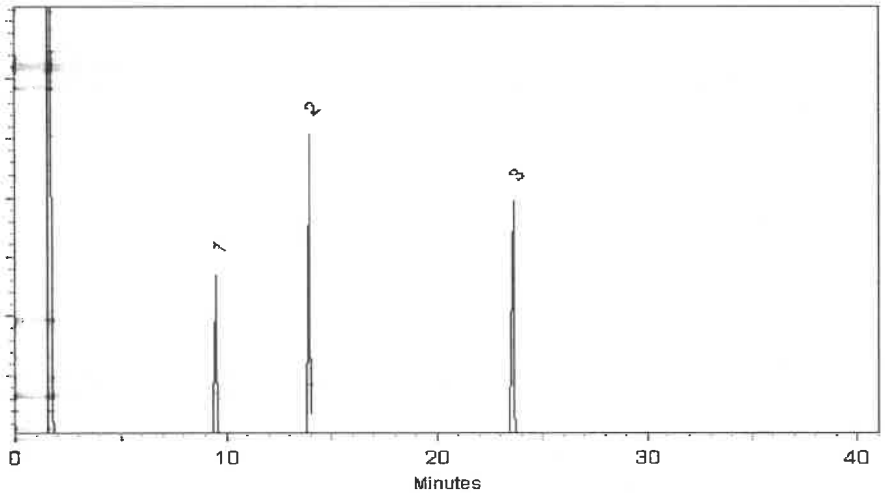
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

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 **Purity** 99%	(Lot PR-29940A)	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 **Purity** 99%	(Lot 00021384)	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 **Purity** 99%	(Lot PR-30504)	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)

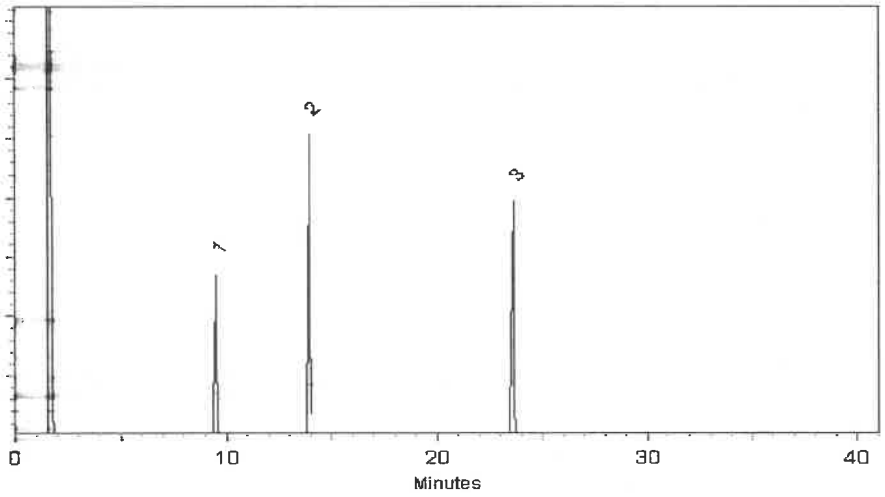
Carrier Gas:
hydrogen-constant pressure 10 psi.

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. : 555869 **Lot No.:** A0194702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	Hexachlorocyclopentadiene	77-47-4	0012019	99%	25,008.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek Registered Quality Certificate #FM

tified Reference Material Notes

tes:

n date valid for unopened ampul stored in compliance with the recommended conditions.

nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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

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

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

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

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 1/29/25

E 3873

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

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 3878

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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S11484 ↓ S11493 Y.P. 08/10/23

Catalog No. : 555870 **Lot No.:** A0200549

Description : Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	25,008.0 µg/mL	+/- 777.3323

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 02-Aug-2023 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

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

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. : 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.)

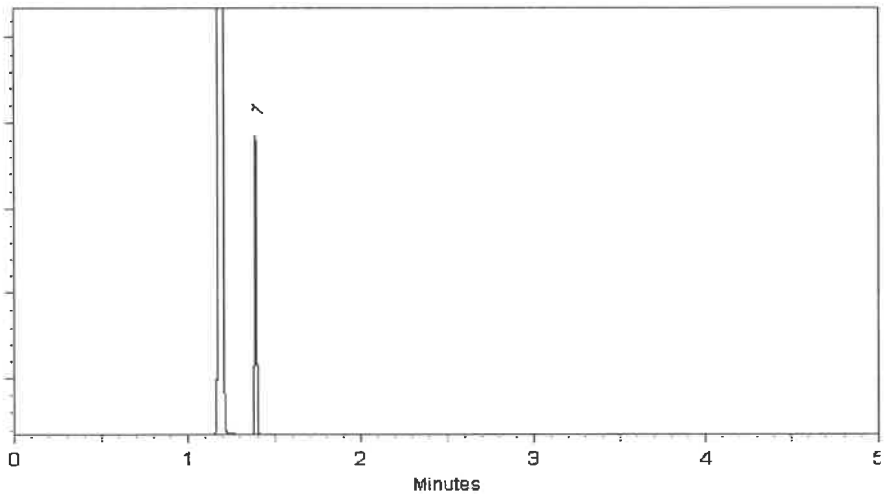
Inj. Temp:
250°C

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.)

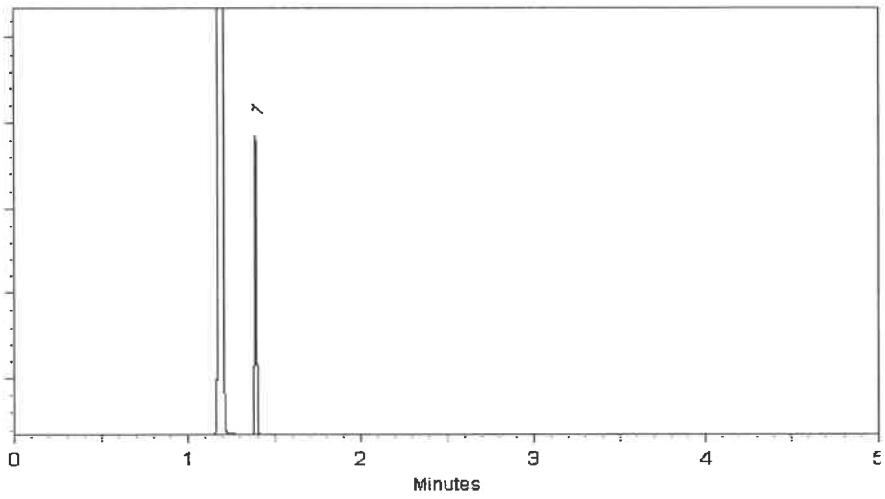
Inj. Temp:
250°C

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.)

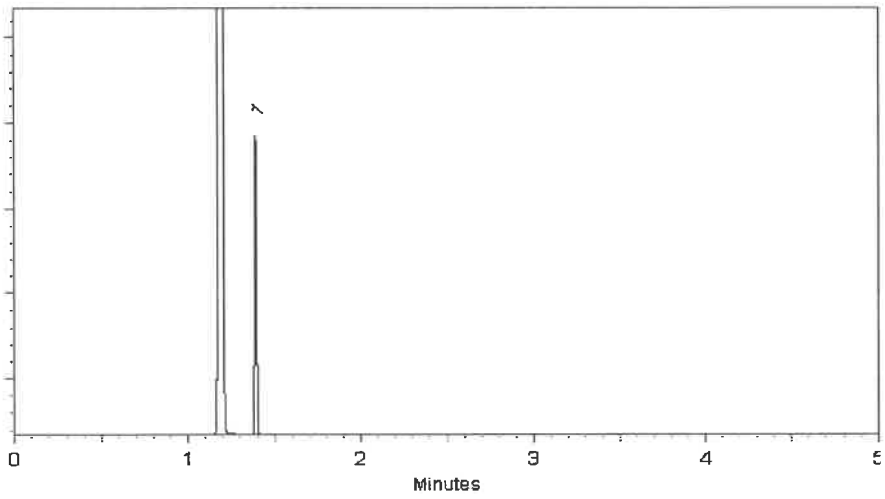
Inj. Temp:
250°C

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.)

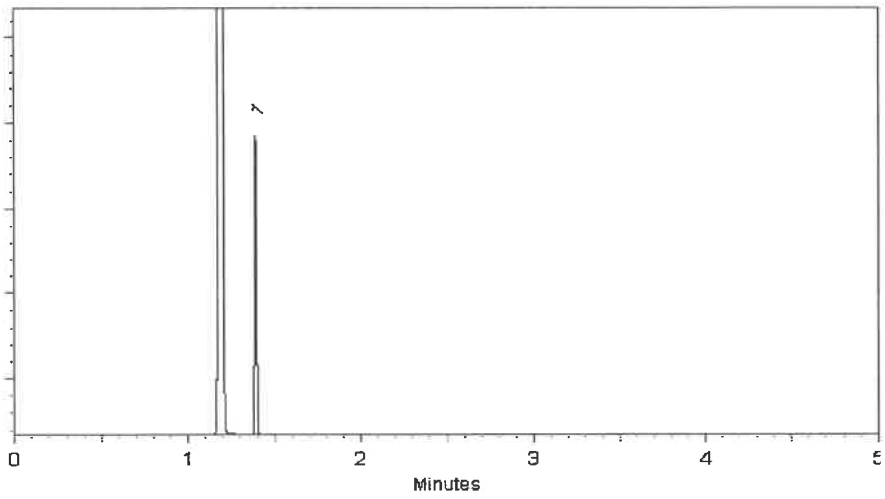
Inj. Temp:
250°C

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.)

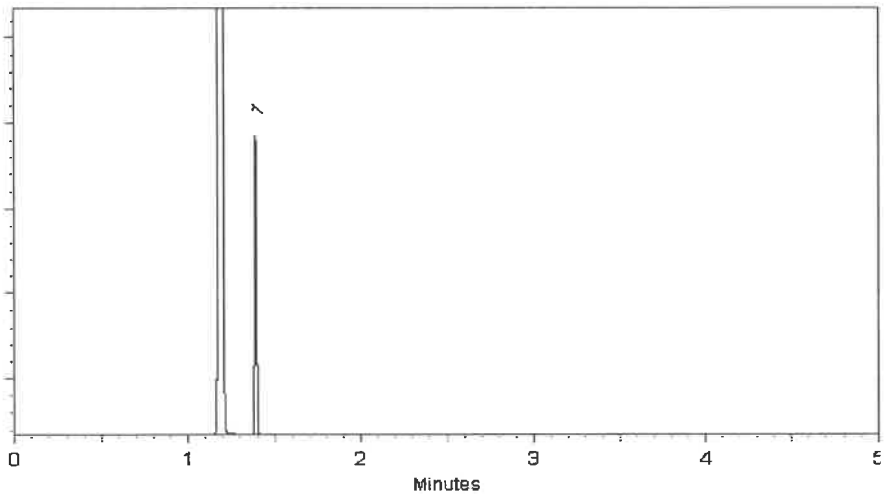
Inj. Temp:
250°C

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-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. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

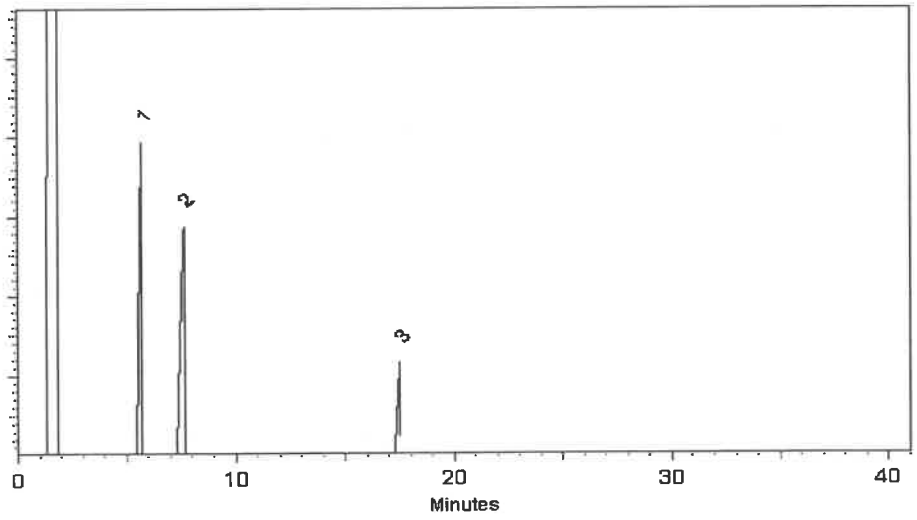
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

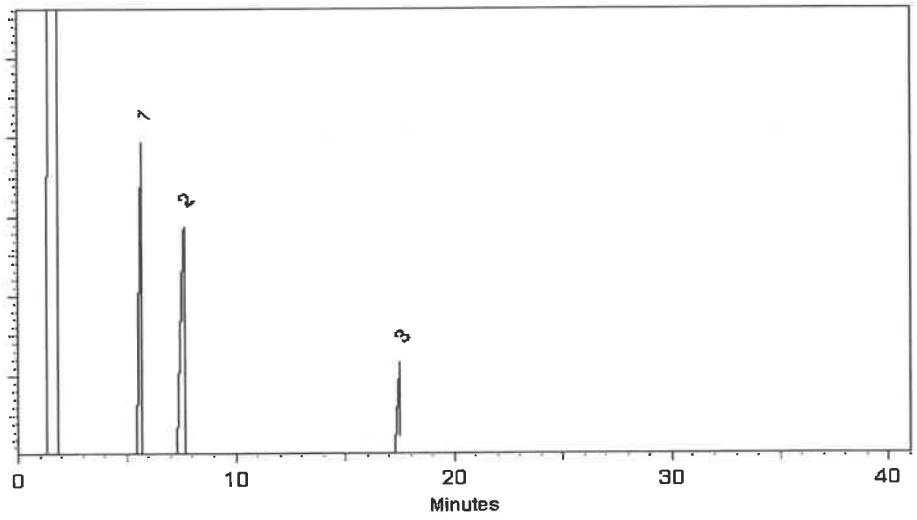
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

S12187 ↓ S12206 } RC/ 03/18/24

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

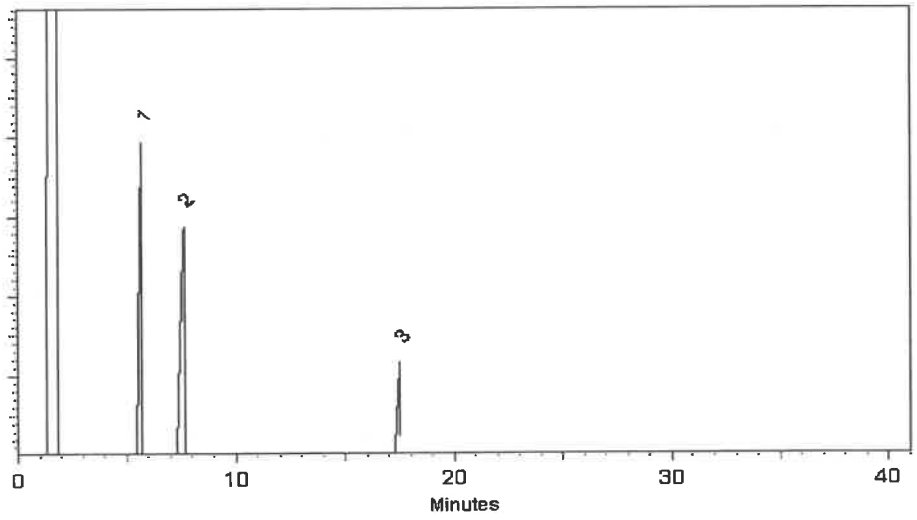
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

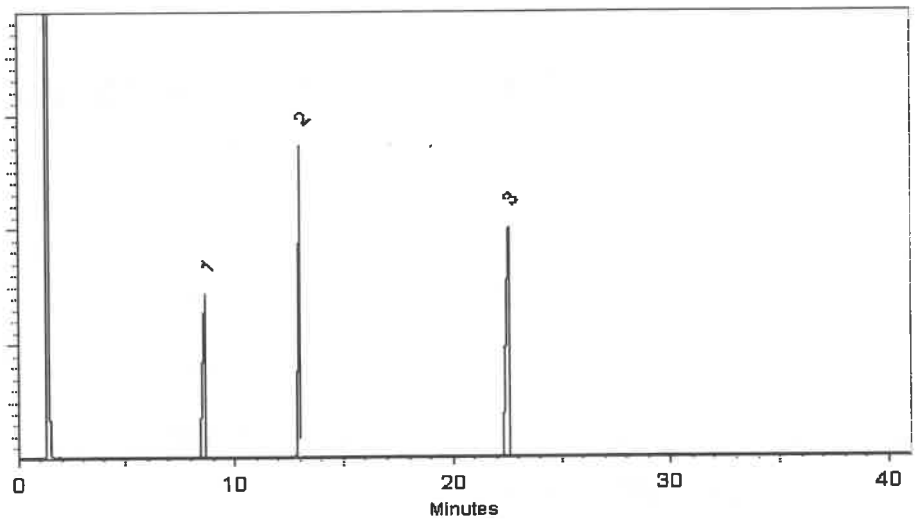
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

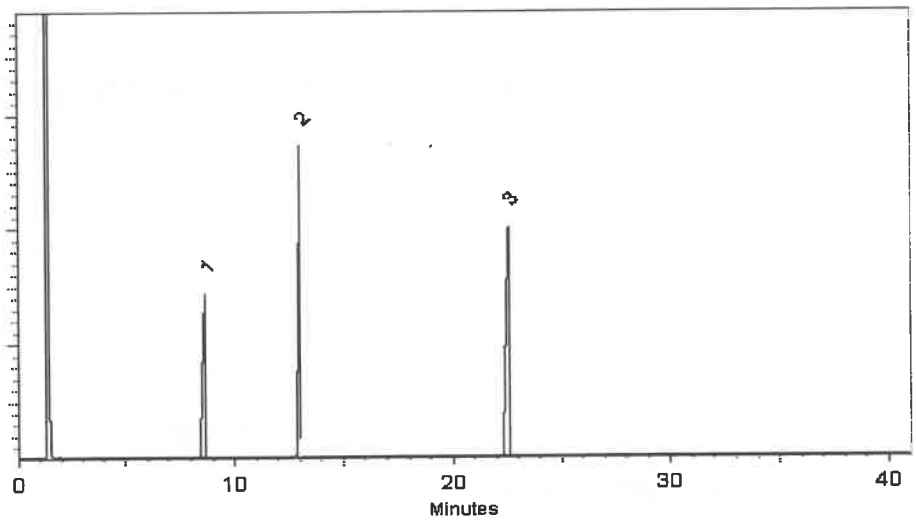
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °C	Methylene Chloride	1/16/2028	Benzaldehyde Solution, 1000 mg/L, 1.3 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
benzaldehyde	100-52-7	98.3	442.421.1P	996.8 ± 11.49

S12275 ↓ S12279 } RC/ 05/24/24

*Not a certified value

Certified By: S. Hunter

Scott Hunter
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

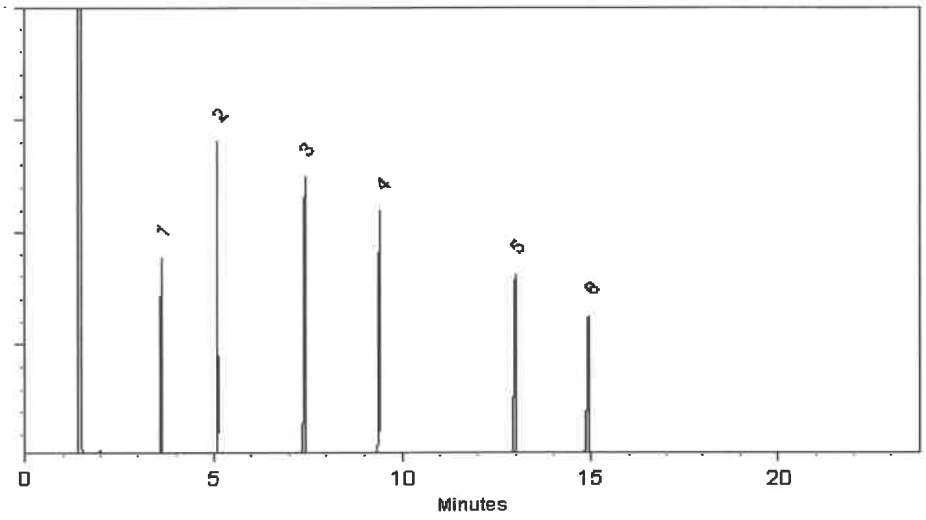
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I **Date Mixed:** 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II **Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II **Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II **Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12280 → S12284 RCI 05/24/24

New numbers Generated.

S12790 → S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12963 → S12992 AC 12/17/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

SHIPPING DOCUMENTS

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

RFP# NA

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF01-01	HL_Pile	TAL VOCs	Soil	2/24/2025	09:40	9	5 gram Encore	4 C	Y
	P001-Clay-CF01-01	HL_Pile	Percent Moisture	Soil	2/24/2025	09:40	1	4 oz glass w/ septum	4 C	Y
	P001-Clay-CF01-01	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	EPH	Soil	2/24/2025	09:40	2	4 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP VOCs	Soil	2/24/2025	09:40	8	40 mL Amber Vial W/ Septum	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP EPH	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All SAMPLES All ANALYSES	WESTON SOLUTIONS	2/24/25 1900		2-24-25 1425	4.9°C IR Gun #1
					Temp Blk present
					Custody seals intact

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

RFP# NA

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF01-02	HL_Pile	TAL VOCs	Soil	2/24/2025	09:50	3	5 gram Encore	4 C	N
	P001-Clay-CF01-02	HL_Pile	Percent Moisture	Soil	2/24/2025	09:50	1	4 oz glass w/ septum	4 C	N
	P001-Clay-CF01-02	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	EPH	Soil	2/24/2025	09:50	1	4 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP VOCs	Soil	2/24/2025	09:50	4	40 mL Amber Vial W/ Septum	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP EPH	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON SOLUTIONS	2/24/25 1500		2-24-25 1425	4.9°C Jill Ayers #1 Temp blk. present custody seals intact

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

RFP# NA

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF02-01	HL_Pile	TAL VOCs	Soil	2/24/2025	10:00	3	5 gram Encore	4 C	N
	P001-Clay-CF02-01	HL_Pile	Percent Moisture	Soil	2/24/2025	10:00	1	4 oz glass w/ septum	4 C	N
	P001-Clay-CF02-01	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	EPH	Soil	2/24/2025	10:00	1	4 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP VOCs	Soil	2/24/2025	10:00	4	40 mL Amber Vial W/ Septum	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP EPH	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples All analyses	WESTON SAMPLING	2/24/25 1500		2-24-25 1425	4.9°C IR Gun #1 Temp blk. present custody seals intact

From: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Sent: Tuesday, February 25, 2025 9:30 AM
To: Jordan@chemtech.net
Cc: yazmeen.gomez@alliancetg.com
Subject: RE: Site # 51835
Attachments: RFP#905-corrected COC.pdf

Jordan – Attached please find corrected COC with RFP# 905 and use the SW 846 Methods. Contact me with any questions.

Thanks,
Smita

From: Jordan Hedvat <Jordan@chemtech.net>
Sent: Monday, February 24, 2025 5:32 PM
To: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Cc: yazmeen.gomez@alliancetg.com
Subject: RE: Site # 51835

***** External Message *** -- PROBE message before clicking links or opening attachments.**

Thanks, the COC did not mention specific Methods so we are running by standard SW-846. If CLP Methods required for these samples received today please let us know. COC is attached (# Q1421)

Regards,
Jordan

Jordan Hedvat
Account Executive, Environmental Laboratories
Main: 908-789-8900
Direct: 908-728-3144
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Sumbaly, Smita [mailto:S.Sumbaly@WestonSolutions.com]
Sent: Monday, February 24, 2025 5:28 PM
To: Jordan@chemtech.net
Subject: Re: Site # 51835

Rfp#905

Sent from my iPhone

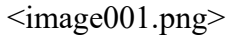
> On Feb 24, 2025, at 4:36 PM, Jordan Hedvat <Jordan@chemtech.net> wrote:

*** External Message *** -- PROBE message before clicking links or opening attachments.

Good afternoon Smita,

We received project with COC titled “Site # 51835.” Please confirm for which RFP # project this falls under so we may include the correct pricing provided at the time of bid? Thank you

Regards,
Jordan



Jordan Hedvat
Account Executive, Environmental Laboratories
Main: 908-789-8900
Direct: 908-728-3144
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

CAUTION: This email originated outside of the organization. **DO NOT CLICK** links or open attachments unless you recognize the sender and know the content is safe.

CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

CAUTION: This email originated outside of the organization. **DO NOT CLICK** links or open attachments unless you recognize the sender and know the content is safe.

CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1421 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 2/24/2025 2:56:42 PM
Project Name : ~~51835~~ RFP 905
Receive DateTime : 2/24/2025 2:25:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1421-01	P001-CLAY-CF01-01	Solid	02/24/2025	09:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-02	Q1421-01MS	Solid	02/24/2025	09:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-03	Q1421-01MSD	Solid	02/24/2025	09:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-07	P001-CLAY-CF01-02	Solid	02/24/2025	09:50					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-09	P001-CLAY-CF02-01	Solid	02/24/2025	10:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By :
Date / Time : 2-24-25 15:40

Received By :
Date / Time : 2-24-25 15:40

Storage Area : VOA Refridgerator Room