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

Cover Page

Order ID : P3467

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
P3467-01	919-J-WS-080224
P3467-02	TB-03-080224

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: 8/17/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

JACOBS Engineering Group, Inc.
Project Name: Former Schlumberger Site Princeton NJ
Project # N/A
Chemtech Project # P3467
Test Name: SVOCMS Group6

A. Number of Samples and Date of Receipt:
2 Water samples were received on 08/02/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for SVOCMS Group6.

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 SVOCMS Group6 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for PB162489BL [2,4,6-Tribromophenol - 122%, Phenol-d6 - 111% and Terphenyl-d14 - 136%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .
The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {P3466-02MS} with File ID: BF139004.D recoveries met the requirements for all compounds except for Benzaldehyde[0%],this compound did not meet the NJDKQP criteria and in-house criteria, while Fluoranthene[132%], this compound did not meet the NJDKQP criteria but met the in-house criteria. due to matrix interference. No corrective action is required.

The MSD {P3466-03MSD} with File ID: BF139005.D recoveries met the acceptable requirements except for 2-Methylphenol[69%], Fluoranthene[132%], these compounds did not meet the NJDKQP criteria but met the in-house criteria . and Benzaldehyde[0%], this compound did not meet the NJDKQP criteria but met the in-house criteria, to matrix interference. No corrective action is required.

The RPD met criteria .
The Blank Spike met requirements for all samples .

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

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

The Continuous Calibration File ID BF138879.D met the requirements except for Benzaldehyde, is marginally biased low 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

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

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

CHEMTECH PROJECT NUMBER: P3467 MATRIX: Water

METHOD: 8270E/3510

		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 BF138879.D met the requirements except for Benzaldehyde, is marginally biased low therefore no corrective action was taken.

		NA	NO	YES
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 PB162489BL [2,4,6-Tribromophenol - 122%, Phenol-d6 - 111% and Terphenyl-d14 - 136%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

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

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

(CONTINUED)

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The MS {P3466-02MS} with File ID: BF139004.D recoveries met the requirements for all compounds except for Benzaldehyde[0%],this compound did not meet the NJDKQP criteria and in-house criteria, while Fluoranthene[132%], this compound did not meet the NJDKQP criteria but met the in-house criteria. due to matrix interference. No corrective action is required.			
	The MSD {P3466-03MSD} with File ID: BF139005.D recoveries met the acceptable requirements except for 2-Methylphenol[69%], Fluoranthene[132%], these compounds did not meet the NJDKQP criteria but met the in-house criteria . and Benzaldehyde[0%], this compound did not meet the NJDKQP criteria but met the in-house criteria, to matrix interference. No corrective action is required.			
	The Blank Spike met requirements for all samples .			
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 #: P3467

	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	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 08/17/2024

2nd Level QA Review Signature: ______________________ **Date:** ______________

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

LAB CHRONICLE

OrderID:	P3467	**OrderDate:**	8/2/2024 4:30:00 PM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	**Location:**	D21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3467-01	**919-J-WS-080224**	**Water**			**08/02/24**			**08/02/24**
			SVOCMS Group3	8270-Modified		08/05/24	08/06/24	
			SVOCMS Group6	8270E		08/05/24	08/10/24	

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

Hit Summary Sheet
SW-846

SDG No.: P3467

Client: JACOBS Engineering Group, Inc.

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

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: **P3467**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **8270E**

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P3466-02MS	924-K1-WP0-0.25-080224MS	2-Fluorophenol	150	77.1	51		15 (10)	110 (139)
		Phenol-d6	150	45.0	30		15 (10)	110 (134)
		Nitrobenzene-d5	100	104	104		30 (49)	130 (133)
		2-Fluorobiphenyl	100	103	103		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	157	105		15 (32)	110 (145)
		Terphenyl-d14	100	115	115		30 (36)	130 (145)
P3466-03MSD	924-K1-WP0-0.25-080224MSD	2-Fluorophenol	150	75.1	50		15 (10)	110 (139)
		Phenol-d6	150	43.2	29		15 (10)	110 (134)
		Nitrobenzene-d5	100	104	104		30 (49)	130 (133)
		2-Fluorobiphenyl	100	100	100		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	156	104		15 (32)	110 (145)
		Terphenyl-d14	100	113	113		30 (36)	130 (145)
P3467-01	919-J-WS-080224	2-Fluorophenol	150	74.5	50		15 (10)	110 (139)
		Phenol-d6	150	47.2	31		15 (10)	110 (134)
		Nitrobenzene-d5	100	101	101		30 (49)	130 (133)
		2-Fluorobiphenyl	100	99.3	99		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	148	99		15 (32)	110 (145)
		Terphenyl-d14	100	99.1	99		30 (36)	130 (145)
PB162489BL	PB162489BL	2-Fluorophenol	150	166	110		15 (10)	110 (139)
		Phenol-d6	150	167	111	*	15 (10)	110 (134)
		Nitrobenzene-d5	100	112	112		30 (49)	130 (133)
		2-Fluorobiphenyl	100	110	110		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	182	122	*	15 (32)	110 (145)
		Terphenyl-d14	100	136	136	*	30 (36)	130 (145)
PB162489BS	PB162489BS	2-Fluorophenol	150	130	87		15 (10)	110 (139)
		Phenol-d6	150	129	86		15 (10)	110 (134)
		Nitrobenzene-d5	100	85.0	85		30 (49)	130 (133)
		2-Fluorobiphenyl	100	86.9	87		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	139	92		15 (32)	110 (145)
		Terphenyl-d14	100	116	116		30 (36)	130 (145)

( ) = LABORATORY INHOUSE LIMIT

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.: P3467

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P3466-02MS		**Client Sample ID: 924-K1-WP0-0.25-080224MS**						**DataFile: BF139004.D**			
Pyridine	51	0	16.2	ug/L	32				20 (10)	160 (109)	
Benzaldehyde	51	0	0	ug/L	0	*			20 (10)	160 (137)	
2-Methylphenol	51	0	35.8	ug/L	70				70 (37)	130 (126)	
Acetophenone	51	0	55.8	ug/L	109				70 (31)	130 (164)	
3+4-Methylphenols	51	0	32.7	ug/L	64				20 (31)	160 (127)	
Nitrobenzene	51	0	54.7	ug/L	107				70 (62)	130 (112)	
2,4-Dichlorophenol	51	0	49.5	ug/L	97				70 (22)	130 (146)	
Naphthalene	51	0	49.4	ug/L	97				70 (17)	130 (157)	
Hexachlorobutadiene	51	0	50.5	ug/L	99				70 (52)	130 (125)	
2-Methylnaphthalene	51	0	48.5	ug/L	95				70 (38)	130 (146)	
2,4,6-Trichlorophenol	51	0	56.6	ug/L	111				70 (78)	130 (112)	
2,4,5-Trichlorophenol	51	0	53.2	ug/L	104				70 (71)	130 (111)	
Acenaphthylene	51	0	57.6	ug/L	113				70 (40)	130 (141)	
Acenaphthene	51	0	52.9	ug/L	104				70 (37)	130 (146)	
Dibenzofuran	51	0	56.6	ug/L	111				70 (41)	130 (145)	
Fluorene	51	0	57.0	ug/L	112				70 (39)	130 (144)	
Hexachlorobenzene	51	0	49.6	ug/L	97				70 (72)	130 (115)	
Pentachlorophenol	100	0	92.4	ug/L	92				20 (25)	160 (139)	
Phenanthrene	51	0	56.1	ug/L	110				70 (40)	130 (147)	
Carbazole	51	0	61.8	ug/L	121				70 (37)	130 (154)	
Di-n-butylphthalate	51	0	63.6	ug/L	125				70 (40)	130 (151)	
Fluoranthene	51	0	67.2	ug/L	132	*			70 (42)	130 (146)	
Pyrene	51	0	54.2	ug/L	106				70 (41)	130 (149)	
Benzo(a)anthracene	51	0	56.3	ug/L	110				70 (41)	130 (147)	
Chrysene	51	0	53.6	ug/L	105				70 (44)	130 (144)	
bis(2-Ethylhexyl)phthalate	51	0	61.7	ug/L	121				70 (33)	130 (160)	
Benzo(b)fluoranthene	51	0	57.9	ug/L	114				70 (40)	130 (150)	
Benzo(k)fluoranthene	51	0	61.7	ug/L	121				70 (40)	130 (147)	
Benzo(a)pyrene	51	0	58.3	ug/L	114				70 (42)	130 (147)	
Indeno(1,2,3-cd)pyrene	51	0	46.7	ug/L	92				70 (30)	130 (166)	
Dibenz(a,h)anthracene	51	0	46.6	ug/L	91				70 (23)	130 (172)	
Benzo(g,h,i)perylene	51	0	42.5	ug/L	83				70 (27)	130 (167)	
1,4-Dioxane	51	0	23.5	ug/L	46				20 (38)	160 (130)	
1-Methylnaphthalene	51	0	44.8	ug/L	88				70 (25)	130 (151)	

( ) = LABORATORY INHOUSE LIMIT

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.: **P3467**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **SW8270E**

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: P3466-03MSD		**Client Sample ID: 924-K1-WP0-0.25-080224MSD**						**DataFile: BF139005.D**			
Pyridine	52.6	0	16.3	ug/L	31		3		20 (10)	160 (109)	20 (20)
Benzaldehyde	52.6	0	0	ug/L	0	*	0		20 (10)	160 (137)	20 (20)
2-Methylphenol	52.6	0	36.1	ug/L	69	*	1		70 (37)	130 (126)	20 (20)
Acetophenone	52.6	0	57.3	ug/L	109		0		70 (31)	130 (164)	20 (20)
3+4-Methylphenols	52.6	0	32.8	ug/L	62		3		20 (31)	160 (127)	20 (20)
Nitrobenzene	52.6	0	55.8	ug/L	106		1		70 (62)	130 (112)	20 (20)
2,4-Dichlorophenol	52.6	0	51.0	ug/L	97		0		70 (22)	130 (146)	20 (20)
Naphthalene	52.6	0	50.3	ug/L	96		1		70 (17)	130 (157)	20 (20)
Hexachlorobutadiene	52.6	0	51.4	ug/L	98		1		70 (52)	130 (125)	20 (20)
2-Methylnaphthalene	52.6	0	49.2	ug/L	94		1		70 (38)	130 (146)	20 (20)
2,4,6-Trichlorophenol	52.6	0	56.9	ug/L	108		3		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	52.6	0	55.9	ug/L	106		2		70 (71)	130 (111)	20 (20)
Acenaphthylene	52.6	0	59.9	ug/L	114		1		70 (40)	130 (141)	20 (20)
Acenaphthene	52.6	0	55.3	ug/L	105		1		70 (37)	130 (146)	20 (20)
Dibenzofuran	52.6	0	57.7	ug/L	110		1		70 (41)	130 (145)	20 (20)
Fluorene	52.6	0	59.7	ug/L	113		1		70 (39)	130 (144)	20 (20)
Hexachlorobenzene	52.6	0	51.5	ug/L	98		1		70 (72)	130 (115)	20 (20)
Pentachlorophenol	110	0	97.5	ug/L	89		3		20 (25)	160 (139)	20 (20)
Phenanthrene	52.6	0	58.3	ug/L	111		1		70 (40)	130 (147)	20 (20)
Carbazole	52.6	0	64.6	ug/L	123		2		70 (37)	130 (154)	20 (20)
Di-n-butylphthalate	52.6	0	66.6	ug/L	127		2		70 (40)	130 (151)	20 (20)
Fluoranthene	52.6	0	69.4	ug/L	132	*	0		70 (42)	130 (146)	20 (20)
Pyrene	52.6	0	55.8	ug/L	106		0		70 (41)	130 (149)	20 (20)
Benzo(a)anthracene	52.6	0	57.1	ug/L	109		1		70 (41)	130 (147)	20 (20)
Chrysene	52.6	0	56.1	ug/L	107		2		70 (44)	130 (144)	20 (20)
bis(2-Ethylhexyl)phthalate	52.6	0	63.1	ug/L	120		1		70 (33)	130 (160)	20 (20)
Benzo(b)fluoranthene	52.6	0	59.8	ug/L	114		0		70 (40)	130 (150)	20 (20)
Benzo(k)fluoranthene	52.6	0	66.8	ug/L	127		5		70 (40)	130 (147)	20 (20)
Benzo(a)pyrene	52.6	0	61.5	ug/L	117		3		70 (42)	130 (147)	20 (20)
Indeno(1,2,3-cd)pyrene	52.6	0	49.2	ug/L	94		2		70 (30)	130 (166)	20 (20)
Dibenz(a,h)anthracene	52.6	0	49.9	ug/L	95		4		70 (23)	130 (172)	20 (20)
Benzo(g,h,i)perylene	52.6	0	43.1	ug/L	82		1		70 (27)	130 (167)	20 (20)
1,4-Dioxane	52.6	0	24.1	ug/L	46		0		20 (38)	160 (130)	20 (20)
1-Methylnaphthalene	52.6	0	46.2	ug/L	88		0		70 (25)	130 (151)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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.: **P3467**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **8270E** **DataFile:** BF138886.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB162489BS	Pyridine	50	32.5	ug/L	65				20 (29)	160 (97)	
	Benzaldehyde	50	38.9	ug/L	78				20 (10)	160 (162)	
	2-Methylphenol	50	47.4	ug/L	95				70 (69)	130 (109)	
	Acetophenone	50	44.2	ug/L	88				70 (60)	130 (104)	
	3+4-Methylphenols	50	49.8	ug/L	100				20 (67)	160 (106)	
	Nitrobenzene	50	43.6	ug/L	87				70 (58)	130 (106)	
	2,4-Dichlorophenol	50	48.8	ug/L	98				70 (66)	130 (115)	
	Naphthalene	50	44.3	ug/L	89				70 (64)	130 (107)	
	Hexachlorobutadiene	50	44.1	ug/L	88				70 (69)	130 (101)	
	2-Methylnaphthalene	50	46.5	ug/L	93				70 (64)	130 (107)	
	2,4,6-Trichlorophenol	50	45.6	ug/L	91				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	44.2	ug/L	88				70 (70)	130 (106)	
	Acenaphthylene	50	48.4	ug/L	97				70 (79)	130 (103)	
	Acenaphthene	50	43.5	ug/L	87				70 (59)	130 (113)	
	Dibenzofuran	50	46.4	ug/L	93				70 (65)	130 (106)	
	Fluorene	50	47.8	ug/L	96				70 (64)	130 (107)	
	Hexachlorobenzene	50	46.4	ug/L	93				70 (73)	130 (106)	
	Pentachlorophenol	100	75.1	ug/L	75				20 (47)	160 (114)	
	Phenanthrene	50	47.8	ug/L	96				70 (62)	130 (109)	
	Carbazole	50	46.7	ug/L	93				70 (62)	130 (106)	
	Di-n-butylphthalate	50	55.8	ug/L	112				70 (64)	130 (106)	
	Fluoranthene	50	48.8	ug/L	98				70 (64)	130 (110)	
	Pyrene	50	50.1	ug/L	100				70 (71)	130 (103)	
	Benzo(a)anthracene	50	46.9	ug/L	94				70 (62)	130 (107)	
	Chrysene	50	48.2	ug/L	96				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	46.5	ug/L	93				70 (59)	130 (110)	
	Benzo(b)fluoranthene	50	48.7	ug/L	97				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	57.5	ug/L	115				70 (77)	130 (105)	
	Benzo(a)pyrene	50	53.0	ug/L	106				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	47.2	ug/L	94				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	46.7	ug/L	93				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	41.2	ug/L	82				70 (75)	130 (118)	
	1,4-Dioxane	50	30.1	ug/L	60				20 (38)	160 (125)	
	1-Methylnaphthalene	50	43.6	ug/L	87				70 (51)	130 (114)	

( ) = LABORATORY INHOUSE LIMIT

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162489BL

Lab Name: CHEMTECH   Contract: JACO05

Lab Code: CHEM   Case No.: P3467   SAS No.: P3467   SDG NO.: P3467

Lab File ID: BF138885.D   Lab Sample ID: PB162489BL

Instrument ID: BNA_F   Date Extracted: 08/05/2024

Matrix: (soil/water) Water   Date Analyzed: 08/09/2024

Level: (low/med) LOW   Time Analyzed: 12:55

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB162489BS	PB162489BS	BF138886.D	08/09/2024
919-J-WS-080224	P3467-01	BF138922.D	08/10/2024
924-K1-WP0-0.25-080224MS	P3466-02MS	BF139004.D	08/14/2024
924-K1-WP0-0.25-080224MSD	P3466-03MSD	BF139005.D	08/14/2024

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: JACO05

Lab Code: CHEM SAS No.: P3467 SDG NO.: P3467

Lab File ID: BF138679.D DFTPP Injection Date: 07/30/2024

Instrument ID: BNA_F DFTPP Injection Time: 12:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	49.4
68	Less than 2.0% of mass 69	0.8 (1.9) 1
69	Mass 69 relative abundance	41.1
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	51.5
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	25.9
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	12.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.8 (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	BF138680.D	07/30/2024	12:54
SSTDICC005	SSTDICC005	BF138681.D	07/30/2024	13:25
SSTDICC010	SSTDICC010	BF138682.D	07/30/2024	13:56
SSTDICC020	SSTDICC020	BF138683.D	07/30/2024	14:25
SSTDICCC040	SSTDICCC040	BF138684.D	07/30/2024	14:56
SSTDICC050	SSTDICC050	BF138685.D	07/30/2024	15:27
SSTDICC060	SSTDICC060	BF138686.D	07/30/2024	15:58
SSTDICC080	SSTDICC080	BF138687.D	07/30/2024	16:29

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: JACO05

Lab Code: CHEM　SAS No.: P3467　SDG NO.: P3467

Lab File ID: BF138878.D　DFTPP Injection Date: 08/09/2024

Instrument ID: BNA_F　DFTPP Injection Time: 09:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46.8
68	Less than 2.0% of mass 69	0.8 (1.9) 1
69	Mass 69 relative abundance	39.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	49.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	25.7
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.1 (18.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF138879.D	08/09/2024	09:48
PB162489BL	PB162489BL	BF138885.D	08/09/2024	12:55
PB162489BS	PB162489BS	BF138886.D	08/09/2024	13:25

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: JACO05

Lab Code: CHEM SAS No.: P3467 SDG NO.: P3467

Lab File ID: BF138900.D DFTPP Injection Date: 08/10/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	47.8
68	Less than 2.0% of mass 69	0.3 (0.8) 1
69	Mass 69 relative abundance	40.9
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48.7
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	25.6
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	13.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.6 (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	BF138901.D	08/10/2024	10:41
919-J-WS-080224	P3467-01	BF138922.D	08/10/2024	21:25

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: JACO05

Lab Code: CHEM   SAS No.: P3467   SDG NO.: P3467

Lab File ID: BF138987.D   DFTPP Injection Date: 08/14/2024

Instrument ID: BNA_F   DFTPP Injection Time: 11:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	49.7
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	42.6
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	50.7
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	6.4
275	10.0 - 60.0% of mass 198	25.8
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	11.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.8 (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	BF138988.D	08/14/2024	12:03
924-K1-WP0-0.25-080224MS	P3466-02MS	BF139004.D	08/14/2024	20:16
924-K1-WP0-0.25-080224MSD	P3466-03MSD	BF139005.D	08/14/2024	20:47

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.: P3467 SAS No.: P3467 SDG NO.: P3467

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/09/2024

Lab File ID: BF138879.D Time Analyzed: 09:48

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	65310	6.845	265298	8.13	151080	9.88
	UPPER LIMIT	130620	7.345	530596	8.628	302160	10.38
	LOWER LIMIT	32655	6.345	132649	7.628	75540	9.38
	EPA SAMPLE NO.						
01	PB162489BL	40127	6.84	165520	8.12	99849	9.88
02	PB162489BS	55937	6.84	237308	8.12	135700	9.88

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.: P3467 SAS No.: P3467 SDG NO.: P3467

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/09/2024

Lab File ID: BF138879.D Time Analyzed: 09:48

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	254940	11.363	120643	14.004	111360	15.462
	UPPER LIMIT	509880	11.863	241286	14.504	222720	15.962
	LOWER LIMIT	127470	10.863	60321.5	13.504	55680	14.962
	EPA SAMPLE NO.						
01	PB162489BL	189104	11.36	112088	14.00	75976	15.47
02	PB162489BS	232367	11.36	113862	14.00	96864	15.46

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

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

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3467 SAS No.: P3467 SDG NO.: P3467

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/10/2024

Lab File ID: BF138901.D Time Analyzed: 10:41

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	63234	6.845	258541	8.13	146261	9.88
	UPPER LIMIT	126468	7.345	517082	8.628	292522	10.38
	LOWER LIMIT	31617	6.345	129271	7.628	73130.5	9.38
	EPA SAMPLE NO.						
01	919-J-WS-080224	37654	6.84	147641	8.12	79728	9.87

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.: P3467 SAS No.: P3467 SDG NO.: P3467

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/10/2024

Lab File ID: BF138901.D Time Analyzed: 10:41

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	247933	11.369	115525	14.004	117822	15.468
	UPPER LIMIT	495866	11.869	231050	14.504	235644	15.968
	LOWER LIMIT	123967	10.869	57762.5	13.504	58911	14.968
	EPA SAMPLE NO.						
01	919-J-WS-080224	124633	11.36	68405	14.00	79740	15.46

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

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

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3467 SAS No.: P3467 SDG NO.: P3467

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/14/2024

Lab File ID: BF138988.D Time Analyzed: 12:03

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	46569	6.839	180395	8.12	100753	9.87
	UPPER LIMIT	93138	7.339	360790	8.622	201506	10.369
	LOWER LIMIT	23284.5	6.339	90197.5	7.622	50376.5	9.369
	EPA SAMPLE NO.						
01	924-K1-WP0-0.25-080224MS	32155	6.83	113510	8.12	51515	9.87
02	924-K1-WP0-0.25-080224MSD	35424	6.83	122342	8.12	56215	9.87

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.: P3467 SAS No.: P3467 SDG NO.: P3467

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/14/2024

Lab File ID: BF138988.D Time Analyzed: 12:03

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	170882	11.357	83079	13.998	87305	15.462
	UPPER LIMIT	341764	11.857	166158	14.498	174610	15.962
	LOWER LIMIT	85441	10.857	41539.5	13.498	43652.5	14.962
	EPA SAMPLE NO.						
01	924-K1-WP0-0.25-080224MS	97165	11.36	61682	14.00	47286	15.46
02	924-K1-WP0-0.25-080224MSD	107145	11.36	69421	14.00	51366	15.46

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

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

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

Alliance
TECHNICAL GROUP

SAMPLE
DATA

Raw Data: **BF138922.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	919-J-WS-080224	SDG No.:	P3467
Lab Sample ID:	P3467-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group6
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF138922.D	1	08/05/24 10:45	08/10/24 21:25	PB162489

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.30	ug/L
100-52-7	Benzaldehyde	4.20	U	4.20	10.5	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.30	ug/L
98-86-2	Acetophenone	1.20	U	1.20	5.30	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.5	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.30	ug/L
120-83-2	2,4-Dichlorophenol	0.93	U	0.93	5.30	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.30	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.30	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.30	ug/L
88-06-2	2,4,6-Trichlorophenol	0.94	U	0.94	5.30	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.30	ug/L
208-96-8	Acenaphthylene	1.10	U	1.10	5.30	ug/L
83-32-9	Acenaphthene	0.85	U	0.85	5.30	ug/L
132-64-9	Dibenzofuran	0.98	U	0.98	5.30	ug/L
86-73-7	Fluorene	1.00	U	1.00	5.30	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.30	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.5	ug/L
85-01-8	Phenanthrene	0.94	U	0.94	5.30	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.30	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.30	ug/L
206-44-0	Fluoranthene	1.40	U	1.40	5.30	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.30	ug/L
56-55-3	Benzo(a)anthracene	0.99	U	0.99	5.30	ug/L
218-01-9	Chrysene	0.91	U	0.91	5.30	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.00	U	2.00	5.30	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.30	ug/L
207-08-9	Benzo(k)fluoranthene	1.30	U	1.30	5.30	ug/L
50-32-8	Benzo(a)pyrene	1.80	U	1.80	5.30	ug/L

Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.			Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ			Date Received:	08/02/24
Client Sample ID:	919-J-WS-080224			SDG No.:	P3467
Lab Sample ID:	P3467-01			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	950	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group6
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF138922.D	1	08/05/24 10:45	08/10/24 21:25	PB162489

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.30	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.30	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.30	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.30	ug/L
90-12-0	1-Methylnaphthalene	0.91	U	0.91	5.30	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	74.5		15 (10) - 110 (139)	50%	SPK: 150
13127-88-3	Phenol-d6	47.2		15 (10) - 110 (134)	31%	SPK: 150
4165-60-0	Nitrobenzene-d5	101		30 (49) - 130 (133)	101%	SPK: 100
321-60-8	2-Fluorobiphenyl	99.3		30 (52) - 130 (132)	99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	148		15 (32) - 110 (145)	99%	SPK: 150
1718-51-0	Terphenyl-d14	99.1		30 (36) - 130 (145)	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	37700	6.84			
1146-65-2	Naphthalene-d8	148000	8.122			
15067-26-2	Acenaphthene-d10	79700	9.869			
1517-22-2	Phenanthrene-d10	125000	11.357			
1719-03-5	Chrysene-d12	68400	13.998			
1520-96-3	Perylene-d12	79700	15.462			

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

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

Sample Results: **BF138922.D**

Instrument :
BNA_F
ClientSampleId :
919-J-WS-080224

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138922.D
Acq On : 10 Aug 2024 21:25
Operator : RC/JU
Sample : P3467-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 12 01:20:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

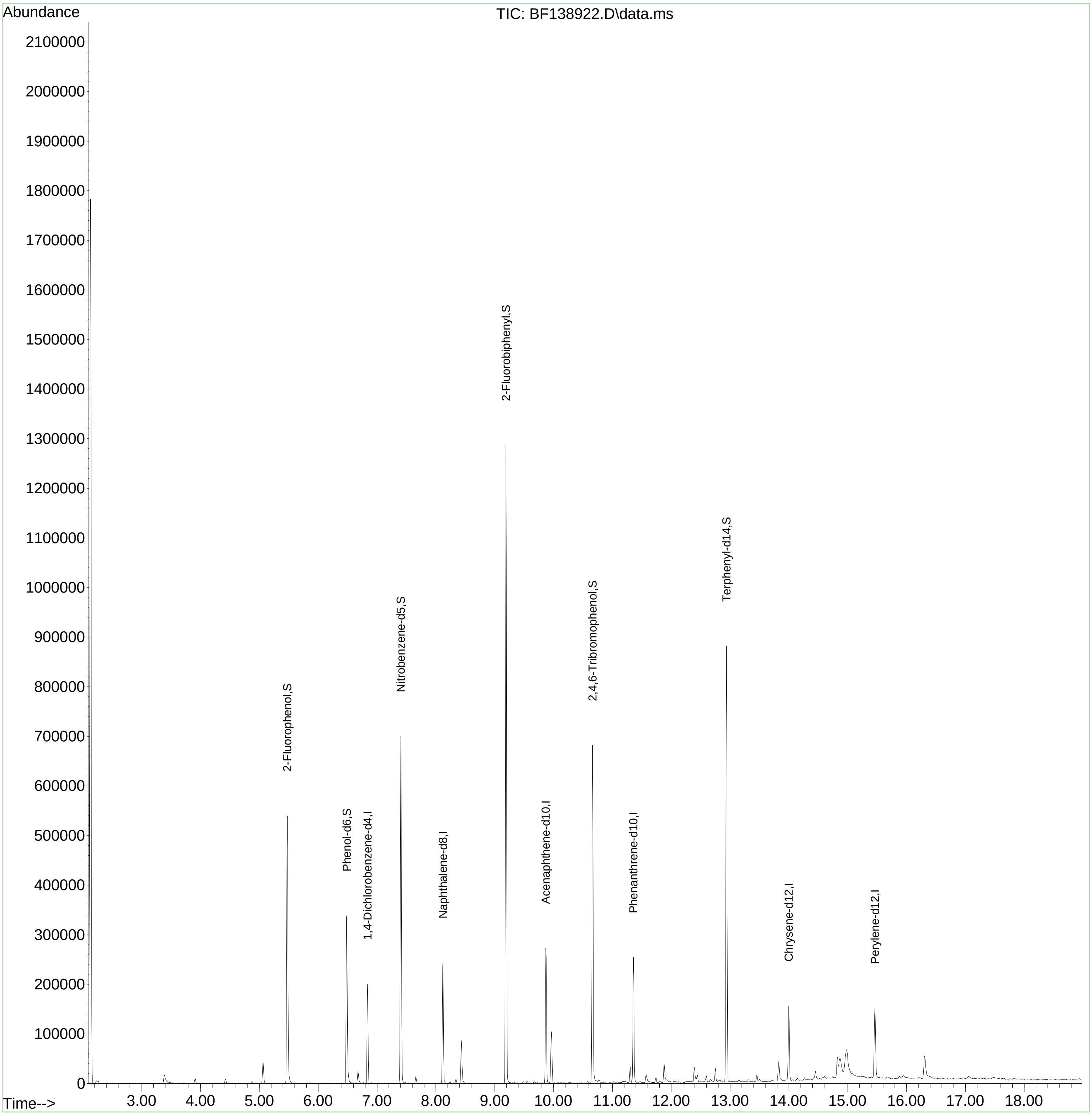
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.840	152	37654	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	147641	20.000	ng	0.00
39) Acenaphthene-d10	9.869	164	79728	20.000	ng	-0.01
64) Phenanthrene-d10	11.357	188	124633	20.000	ng	-0.01
76) Chrysene-d12	13.998	240	68405	20.000	ng	# 0.00
86) Perylene-d12	15.462	264	79740	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	181837	74.545	ng	0.00
7) Phenol-d6	6.487	99	154533	47.186	ng	0.00
23) Nitrobenzene-d5	7.404	82	303638	100.550	ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	96865	148.320	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	526889	99.294	ng	-0.01
79) Terphenyl-d14	12.939	244	405048	99.139	ng	0.00

Target Compounds Qvalue

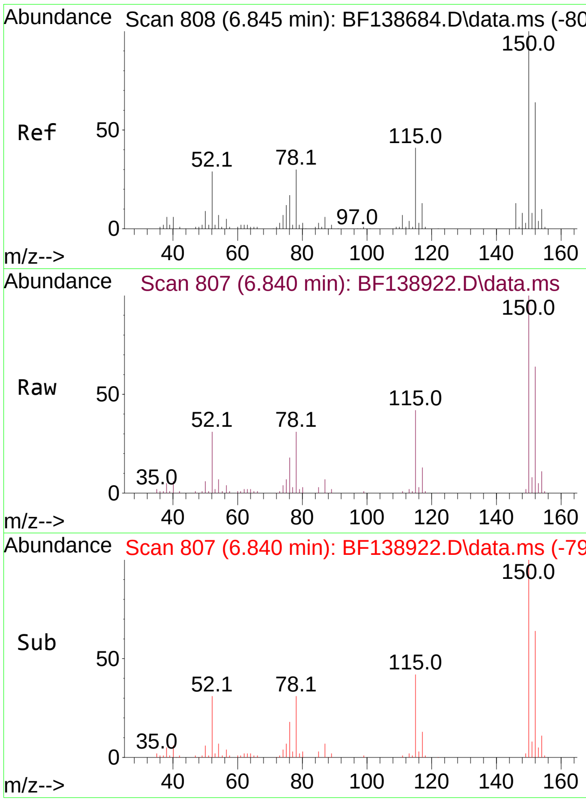
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138922.D
Acq On    : 10 Aug 2024  21:25
Operator  : RC/JU
Sample    : P3467-01
Misc      :
ALS Vial  : 23   Sample Multiplier: 1

Quant Time: Aug 12 01:20:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration
```

Instrument :
BNA_F
ClientSampleId :
919-J-WS-080224



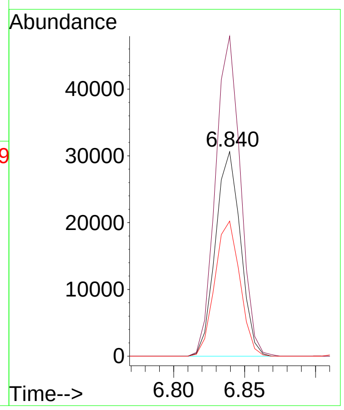
Instrument :
BNA_F
ClientSampleId :
919-J-WS-080224

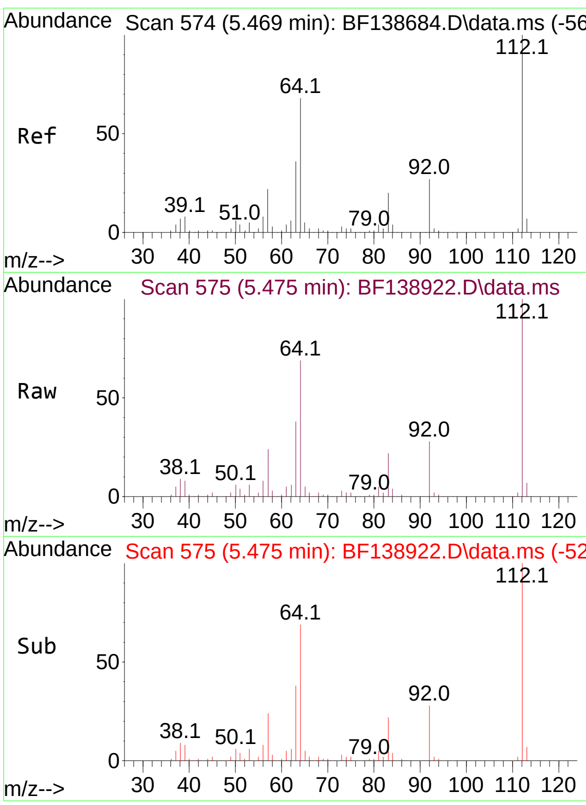


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min   Scan# 8
Delta R.T.   -0.005 min
Lab File: BF138922.D
Acq: 10 Aug 2024   21:25

Tgt Ion:152 Resp: 37654

Ion	Ratio	Lower	Upper
152	100		
150	156.5	126.0	189.0
115	66.1	51.7	77.5

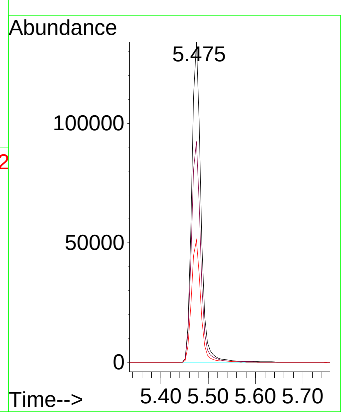




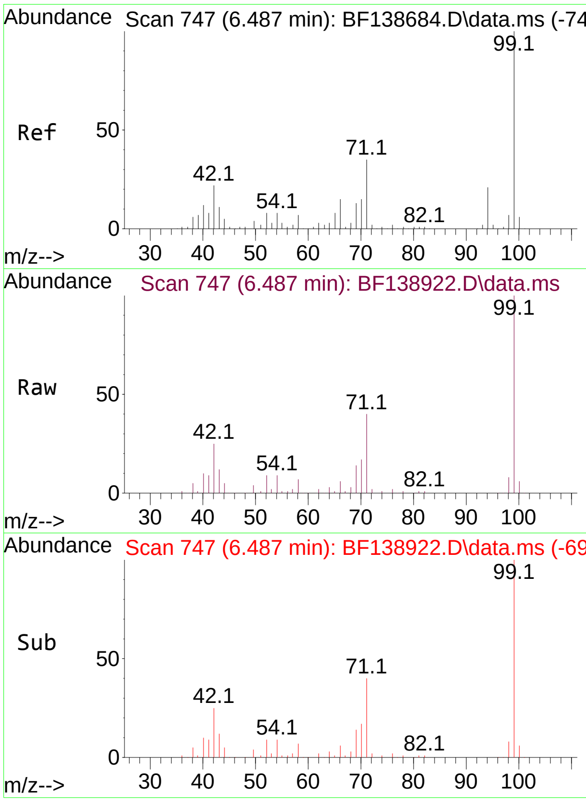
#5
2-Fluorophenol
Concen: 74.545 ng
RT: 5.475 min   Scan# 575
Delta R.T.   0.006 min
Lab File: BF138922.D
Acq: 10 Aug 2024   21:25

Tgt Ion:112 Resp: 181837

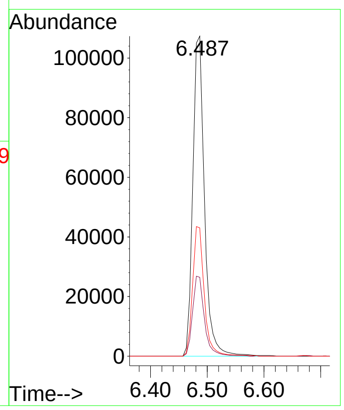
Ion	Ratio	Lower	Upper
112	100		
64	69.0	54.2	81.4
63	38.2	28.7	43.1

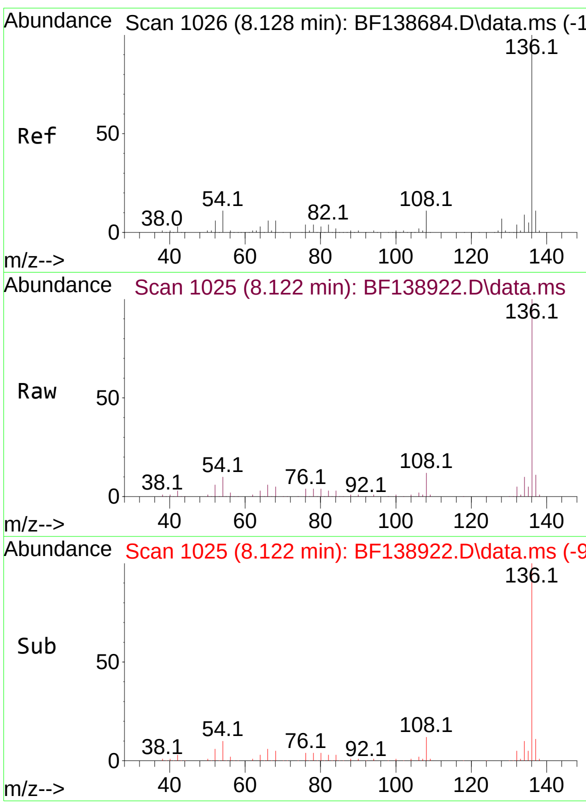


Instrument : BNA_F
ClientSampleId : 919-J-WS-080224

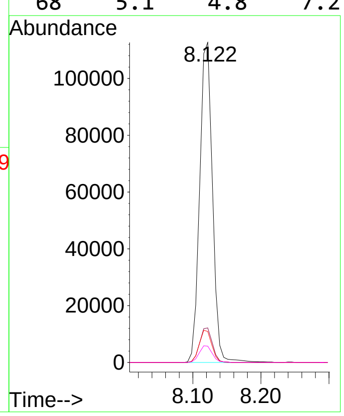



```
#7
Phenol-d6
Concen:    47.186 ng
RT:    6.487 min   Scan# 747
Delta R.T.   -0.000 min
Lab File:    BF138922.D
Acq: 10 Aug 2024   21:25

Tgt Ion: 99 Resp:   154533
Ion   Ratio   Lower   Upper
 99   100
 42    24.6    17.4    26.0
 71    40.1    28.1    42.1
```

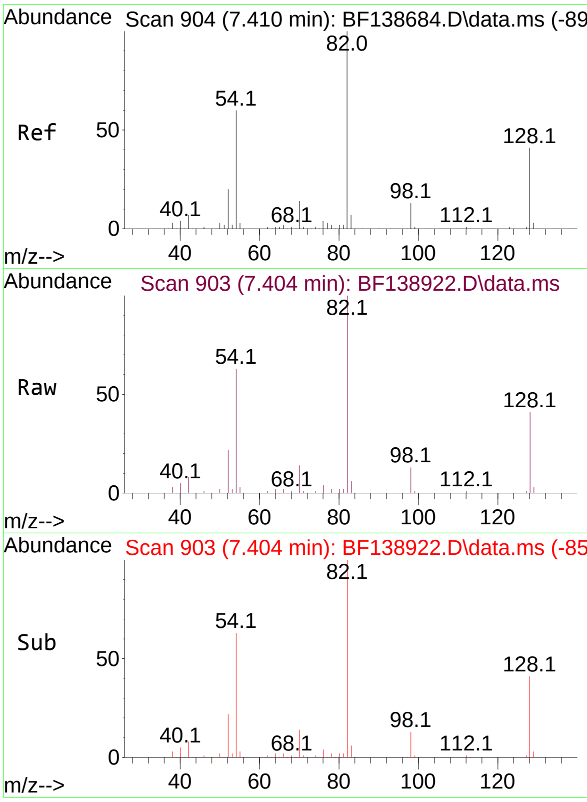





```
#21
Naphthalene-d8
Concen:    20.000 ng
RT:    8.122 min   Scan# 1025
Delta R.T.   -0.006 min
Lab File:    BF138922.D
Acq: 10 Aug 2024   21:25

Tgt Ion:136 Resp:   147641
Ion   Ratio   Lower   Upper
136   100
137    10.8     8.9    13.3
 54     9.7     8.6    12.8
 68     5.1     4.8     7.2
```



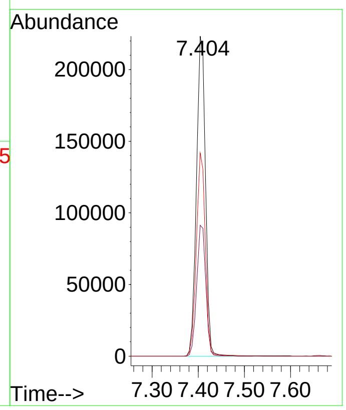
Instrument :
BNA_F
ClientSampleId :
919-J-WS-080224

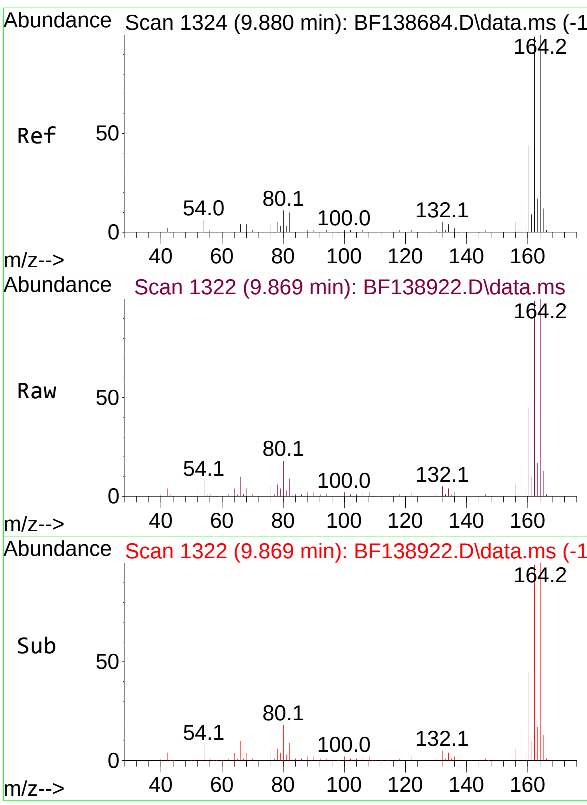


#23
Nitrobenzene-d5
Concen: 100.550 ng
RT: 7.404 min Scan# 90
Delta R.T. -0.006 min
Lab File: BF138922.D
Acq: 10 Aug 2024 21:25

Tgt Ion: 82 Resp: 303638

Ion	Ratio	Lower	Upper
82	100		
128	40.9	32.8	49.2
54	63.5	48.3	72.5

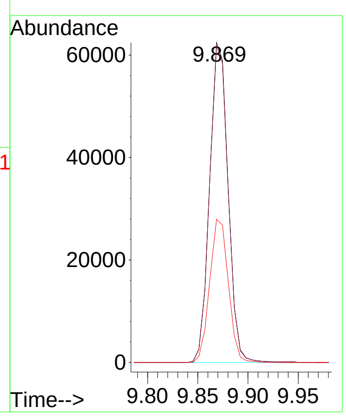




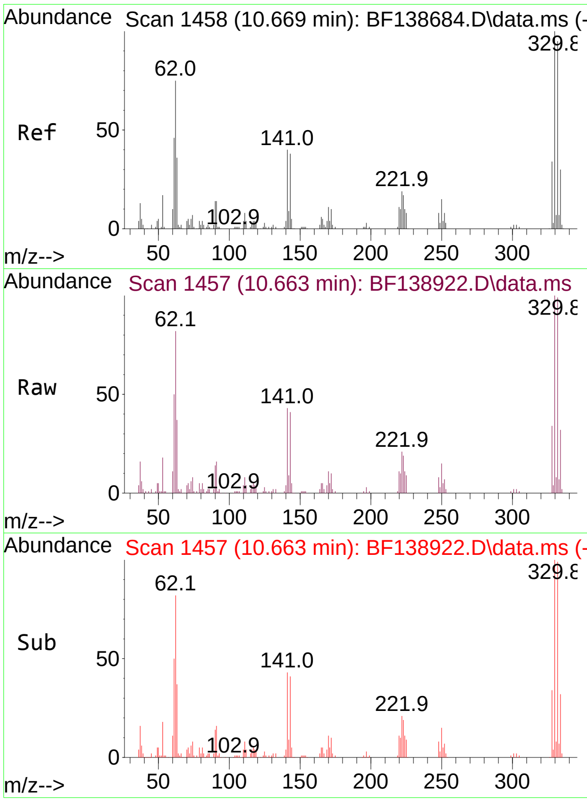
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BF138922.D
Acq: 10 Aug 2024 21:25

Tgt Ion:164 Resp: 79728

Ion	Ratio	Lower	Upper
164	100		
162	99.1	79.4	119.0
160	44.7	35.1	52.7



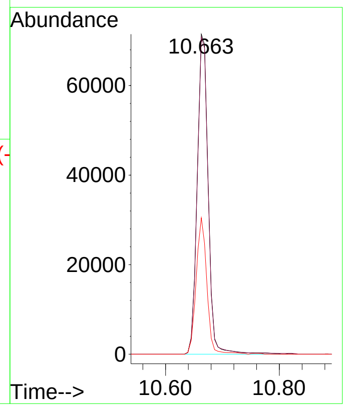
Instrument :
BNA_F
ClientSampleId :
919-J-WS-080224

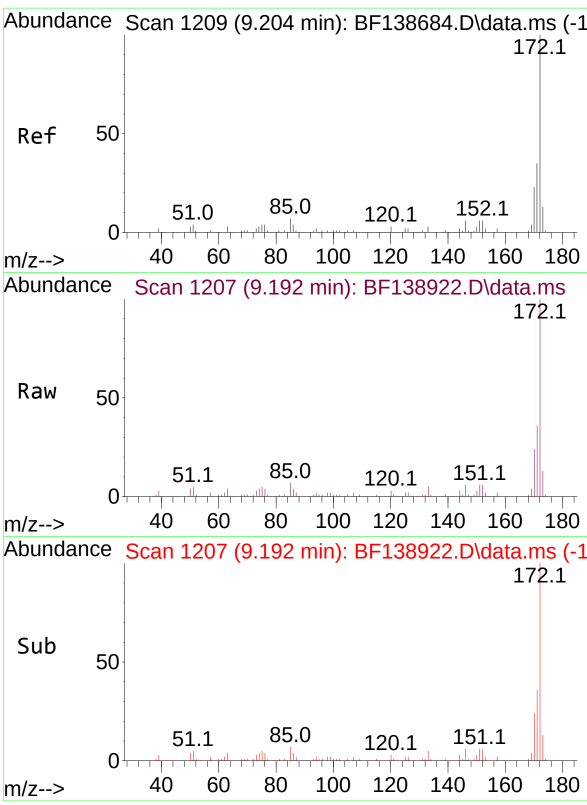


#42
2,4,6-Tribromophenol
Concen: 148.320 ng
RT: 10.663 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138922.D
Acq: 10 Aug 2024 21:25

Tgt Ion:330 Resp: 96865

Ion	Ratio	Lower	Upper
330	100		
332	97.8	76.4	114.6
141	41.2	31.1	46.7

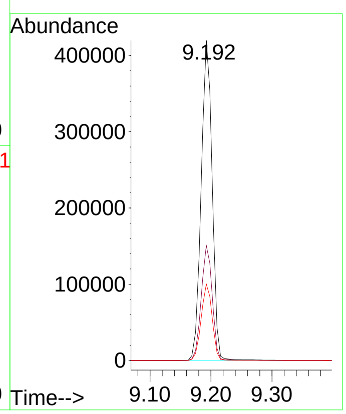




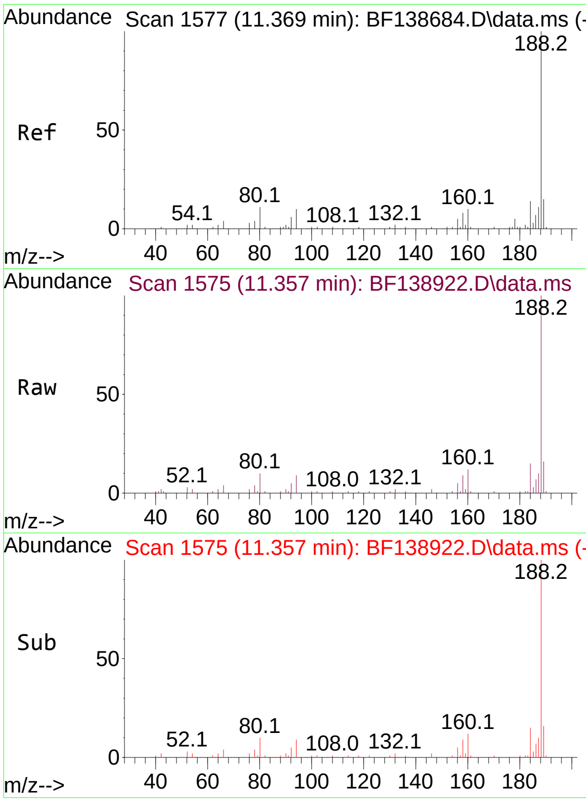
#45
2-Fluorobiphenyl
Concen: 99.294 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.012 min
Lab File: BF138922.D
Acq: 10 Aug 2024 21:25

Tgt Ion:172 Resp: 526889

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.3	42.5
170	23.8	18.8	28.2



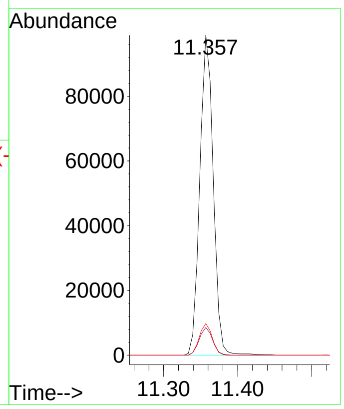
Instrument : BNA_F
ClientSampleId : 919-J-WS-080224

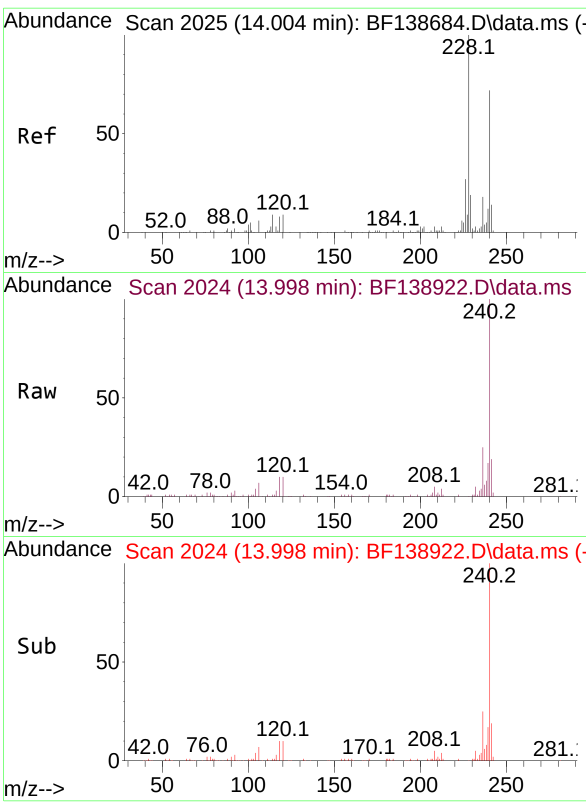


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138922.D
Acq: 10 Aug 2024 21:25

Tgt Ion:188 Resp: 124633

Ion	Ratio	Lower	Upper
188	100		
94	8.7	7.6	11.4
80	9.9	8.6	12.8

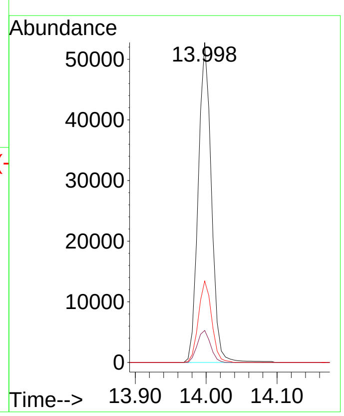




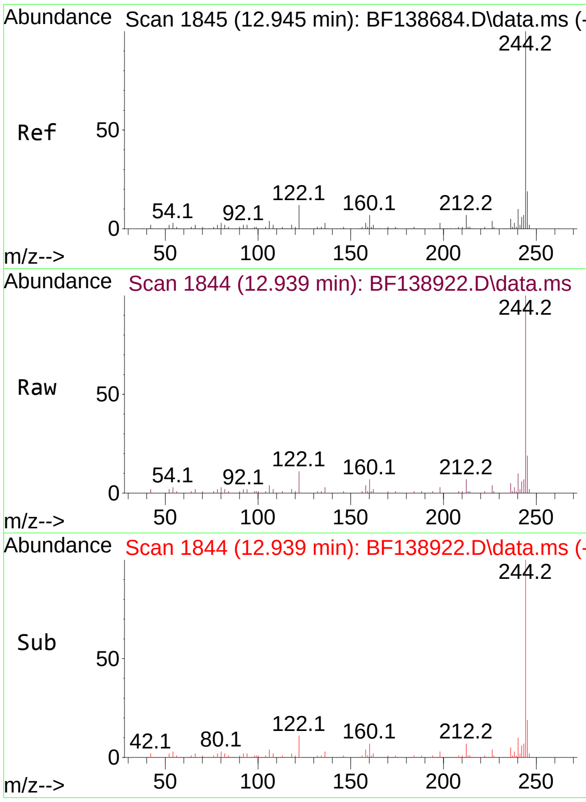
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF138922.D
Acq: 10 Aug 2024 21:25

Tgt Ion:240 Resp: 68405

Ion	Ratio	Lower	Upper
240	100		
120	10.0	10.2	15.4#
236	25.5	19.8	29.8



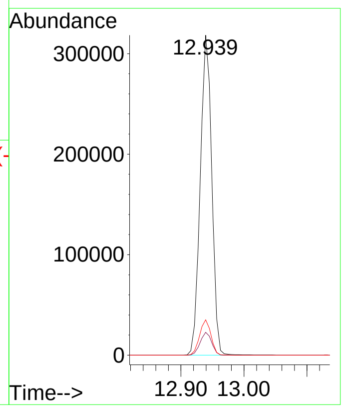
Instrument : BNA_F
ClientSampleId : 919-J-WS-080224

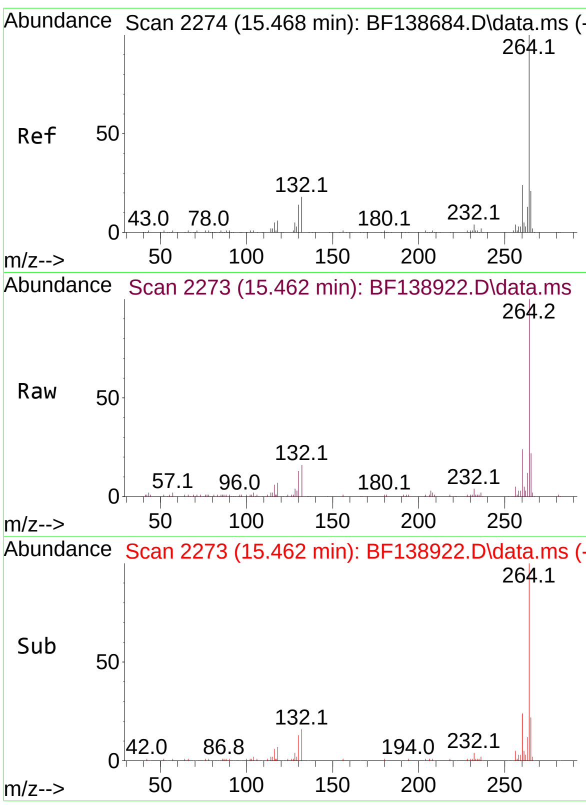


#79
Terphenyl-d14
Concen: 99.139 ng
RT: 12.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138922.D
Acq: 10 Aug 2024 21:25

Tgt Ion:244 Resp: 405048

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.2
122	11.1	9.6	14.4

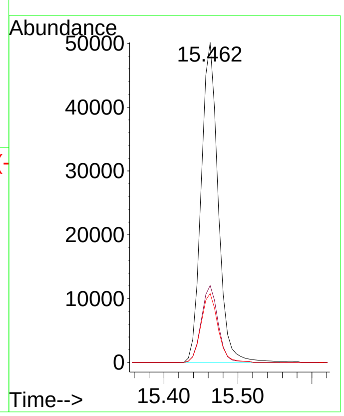




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF138922.D
Acq: 10 Aug 2024 21:25

Tgt Ion:264 Resp: 79740

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.0	28.6
265	21.6	17.0	25.6



CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF073024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 30 17:50:01 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF138680.D 5 =BF138681.D 10 =BF138682.D 20 =BF138683.D 40 =BF138684.D 50 =BF138685.D 60 =BF138686.D 80 =BF138687.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	-----------------ISTD---------------------									
2)		1,4-Dioxane		0.597	0.555	0.581	0.576	0.557	0.563	0.544	0.567	3.20
3)		Pyridine		1.373	1.365	1.453	1.381	1.380	1.358	1.308	1.374	3.13
4)		n-Nitrosodimet...		0.813	0.817	0.829	0.814	0.804	0.849	0.803	0.818	1.94
5)	S	2-Fluorophenol		1.404	1.367	1.341	1.274	1.244	1.256	1.183	1.296	6.00
6)		Aniline		1.656	1.626	1.704	1.532	1.487	1.480	1.375	1.551	7.47
7)	S	Phenol-d6		1.938	1.816	1.828	1.681	1.654	1.684	1.575	1.740	7.19
8)		2-Chlorophenol		1.471	1.418	1.443	1.325	1.308	1.325	1.252	1.363	5.94
9)		Benzaldehyde		1.230	1.119	1.099	0.904	0.862			1.043	14.84
10)	C	Phenol		2.012	1.946	1.913	1.775	1.739	1.771	1.664	1.832	6.89
11)		bis(2-Chloroet...		1.494	1.476	1.434	1.363	1.348	1.416	1.335	1.409	4.46
12)		1,3-Dichlorobe...		1.687	1.609	1.608	1.475	1.445	1.468	1.389	1.526	7.12
13)	C	1,4-Dichlorobe...		1.689	1.615	1.620	1.496	1.482	1.470	1.407	1.540	6.61
14)		1,2-Dichlorobe...		1.621	1.511	1.532	1.408	1.358	1.361	1.284	1.439	8.25
15)		Benzyl Alcohol		1.326	1.287	1.334	1.218	1.213	1.246	1.151	1.254	5.27
16)		2,2'-oxybis(1-...		2.695	2.576	2.592	2.350	2.311	2.317	2.138	2.426	8.17
17)		2-Methylphenol		1.192	1.154	1.183	1.103	1.072	1.130	1.045	1.126	4.91
18)		Hexachloroethane		0.619	0.614	0.598	0.568	0.554	0.564	0.540	0.580	5.31
19)	P	n-Nitroso-di-n...	1.109	1.130	1.087	1.123	0.992	0.970	1.025	0.970	1.051	6.56
20)		3+4-Methylphenols		1.661	1.554	1.558	1.367	1.328	1.365	1.277	1.444	10.02
21)	I	Naphthalene-d8	-----------------ISTD---------------------									
22)		Acetophenone		0.538	0.510	0.508	0.482	0.457	0.475	0.458	0.490	6.14
23)	S	Nitrobenzene-d5		0.426	0.416	0.424	0.407	0.393	0.405	0.392	0.409	3.33
24)		Nitrobenzene		0.431	0.423	0.433	0.417	0.400	0.409	0.401	0.416	3.31
25)		Isophorone		0.735	0.710	0.735	0.681	0.655	0.697	0.677	0.699	4.31
26)	C	2-Nitrophenol		0.169	0.176	0.188	0.184	0.175	0.184	0.179	0.179	3.75
27)		2,4-Dimethylph...		0.219	0.217	0.221	0.214	0.207	0.215	0.207	0.214	2.55
28)		bis(2-Chloroet...		0.448	0.433	0.449	0.418	0.402	0.416	0.410	0.425	4.31
29)	C	2,4-Dichloroph...		0.279	0.276	0.293	0.276	0.264	0.276	0.264	0.275	3.55
30)		1,2,4-Trichlor...		0.344	0.324	0.329	0.316	0.304	0.308	0.299	0.318	4.96
31)		Naphthalene		1.124	1.102	1.110	1.044	1.000	1.014	0.976	1.053	5.63
32)		Benzoic acid			0.136	0.158	0.166	0.166	0.190	0.194	0.168	12.72
33)		4-Chloroaniline		0.354	0.363	0.369	0.346	0.337	0.358	0.348	0.353	3.09
34)	C	Hexachlorobuta...		0.205	0.197	0.200	0.190	0.187	0.187	0.181	0.192	4.39
35)		Caprolactam		0.078	0.084	0.088	0.078	0.076	0.087	0.085	0.082	5.59
36)	C	4-Chloro-3-met...		0.326	0.319	0.343	0.307	0.290	0.314	0.303	0.315	5.37
37)		2-Methylnaphth...		0.723	0.699	0.709	0.649	0.619	0.640	0.615	0.665	6.71
38)		1-Methylnaphth...		0.713	0.685	0.692	0.636	0.606	0.631	0.597	0.652	6.95

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF073024.M

39)	I	Acenaphthene-d10	----------------ISTD--------------------								
40)		1,2,4,5-Tetrac...	0.606	0.560	0.581	0.550	0.542	0.534	0.515	0.556	5.48
41)	P	Hexachlorocycl...		0.064	0.101	0.127	0.138	0.146	0.147	0.120	27.08
42)	S	2,4,6-Tribromo...	0.168	0.164	0.176	0.159	0.156	0.166	0.158	0.164	4.19
43)	C	2,4,6-Trichlor...	0.338	0.338	0.353	0.336	0.330	0.341	0.334	0.339	2.10
44)		2,4,5-Trichlor...	0.368	0.379	0.387	0.368	0.361	0.368	0.360	0.370	2.63
45)	S	2-Fluorobiphenyl	1.512	1.424	1.402	1.306	1.260	1.242	1.172	1.331	8.95
46)		1,1'-Biphenyl	1.714	1.635	1.630	1.539	1.507	1.497	1.442	1.566	6.12
47)		2-Chloronaphth...	1.263	1.206	1.213	1.151	1.119	1.114	1.089	1.165	5.46
48)		2-Nitroaniline	0.394	0.403	0.414	0.389	0.380	0.395	0.390	0.395	2.74
49)		Acenaphthylene	1.796	1.744	1.743	1.637	1.573	1.587	1.486	1.652	6.79
50)		Dimethylphthalate	1.336	1.297	1.367	1.229	1.208	1.278	1.237	1.279	4.57
51)		2,6-Dinitrotol...	0.286	0.288	0.304	0.288	0.277	0.300	0.277	0.289	3.57
52)	C	Acenaphthene	1.217	1.173	1.169	1.082	1.049	1.069	1.016	1.111	6.77
53)		3-Nitroaniline	0.308	0.300	0.317	0.288	0.286	0.303	0.286	0.298	4.09
54)	P	2,4-Dinitrophenol		0.097	0.142	0.127	0.131	0.152	0.148	0.133	14.84
55)		Dibenzofuran	1.729	1.680	1.666	1.515	1.484	1.488	1.412	1.568	7.75
56)	P	4-Nitrophenol		0.156	0.186	0.175	0.176	0.197	0.187	0.179	7.86
57)		2,4-Dinitrotol...	0.377	0.376	0.402	0.362	0.342	0.371	0.348	0.368	5.41
58)		Fluorene	1.374	1.326	1.351	1.206	1.166	1.189	1.127	1.249	7.97
59)		2,3,4,6-Tetrac...	0.270	0.279	0.297	0.274	0.280	0.300	0.282	0.283	3.99
60)		Diethylphthalate	1.268	1.259	1.321	1.155	1.113	1.216	1.156	1.213	6.16
61)		4-Chlorophenyl...	0.662	0.664	0.662	0.589	0.580	0.591	0.551	0.614	7.67
62)		4-Nitroaniline	0.284	0.292	0.313	0.272	0.265	0.292	0.267	0.284	6.04
63)		Azobenzene	1.427	1.391	1.450	1.300	1.259	1.329	1.258	1.345	5.85
64)	I	Phenanthrene-d10	----------------ISTD--------------------								
65)		4,6-Dinitro-2-...		0.107	0.123	0.125	0.123	0.128	0.127	0.122	6.44
66)	c	n-Nitrosodiphe...	0.642	0.645	0.645	0.631	0.606	0.612	0.594	0.625	3.34
67)		4-Bromophenyl-...	0.227	0.219	0.226	0.217	0.211	0.206	0.209	0.217	3.80
68)		Hexachlorobenzene	0.231	0.231	0.234	0.220	0.214	0.219	0.216	0.224	3.73
69)		Atrazine	0.171	0.172	0.176	0.162	0.153	0.153	0.141	0.161	7.84
70)	C	Pentachlorophenol		0.077	0.097	0.102	0.104	0.113	0.111	0.101	12.93
71)		Phenanthrene	1.112	1.109	1.087	1.021	0.970	0.965	0.944	1.030	7.04
72)		Anthracene	1.082	1.077	1.078	1.003	0.965	0.967	0.930	1.015	6.31
73)		Carbazole	0.970	0.938	0.940	0.870	0.810	0.825	0.774	0.875	8.62
74)		Di-n-butylphth...	0.991	0.990	1.040	0.991	0.944	0.992	0.941	0.984	3.41
75)	C	Fluoranthene	1.068	1.045	1.039	0.965	0.899	0.886	0.827	0.961	9.67
76)	I	Chrysene-d12	----------------ISTD--------------------								
77)		Benzidine	0.491	0.482	0.484	0.535	0.470	0.408		0.478	8.58
78)		Pyrene	1.978	1.958	2.140	1.750	1.694	1.929	1.733	1.883	8.64
79)	S	Terphenyl-d14	1.264	1.265	1.362	1.106	1.072	1.210	1.083	1.195	9.25
80)		Butylbenzylpht...	0.577	0.571	0.605	0.628	0.622	0.620	0.598	0.603	3.71
81)		Benzo(a)anthra...	1.401	1.438	1.410	1.395	1.351	1.351	1.295	1.377	3.49
82)		3,3'-Dichlorob...	0.388	0.364	0.377	0.360	0.346	0.319	0.314	0.352	8.00
83)		Chrysene	1.342	1.228	1.260	1.222	1.203	1.229	1.213	1.243	3.82
84)		Bis(2-ethylhex...	0.876	0.838	0.861	0.948	0.945	0.847	0.866	0.883	5.12
85)	c	Di-n-octyl pht...	1.637	1.524	1.614	1.744	1.742	1.570	1.605	1.634	5.06

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF073024.M

86)	I	Perylene-d12	-----------------ISTD---------------------								
87)		Indeno(1,2,3-c...	1.469	1.464	1.517	1.395	1.406	1.405	1.377	1.433	3.54
88)		Benzo(b)fluora...	1.287	1.361	1.287	1.229	1.181	1.135	1.200	1.240	6.19
89)		Benzo(k)fluora...	1.202	1.043	1.098	1.002	1.060	1.117	0.992	1.073	6.79
90)	C	Benzo(a)pyrene	1.084	1.047	1.071	1.023	1.026	1.035	1.014	1.043	2.50
91)		Dibenzo(a,h)an...	1.226	1.231	1.253	1.134	1.140	1.147	1.106	1.177	4.94
92)		Benzo(g,h,i)pe...	1.261	1.234	1.289	1.199	1.196	1.198	1.169	1.221	3.46

(#) = Out of Range

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138680.D
Acq On : 30 Jul 2024 12:54
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 30 17:41:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	73346	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	293951	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	161886	20.000	ng	0.00
64) Phenanthrene-d10	11.363	188	284722	20.000	ng	0.00
76) Chrysene-d12	14.004	240	165574	20.000	ng	0.00
86) Perylene-d12	15.468	264	141601	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...	7.245	70	10170	2.640	ng	97

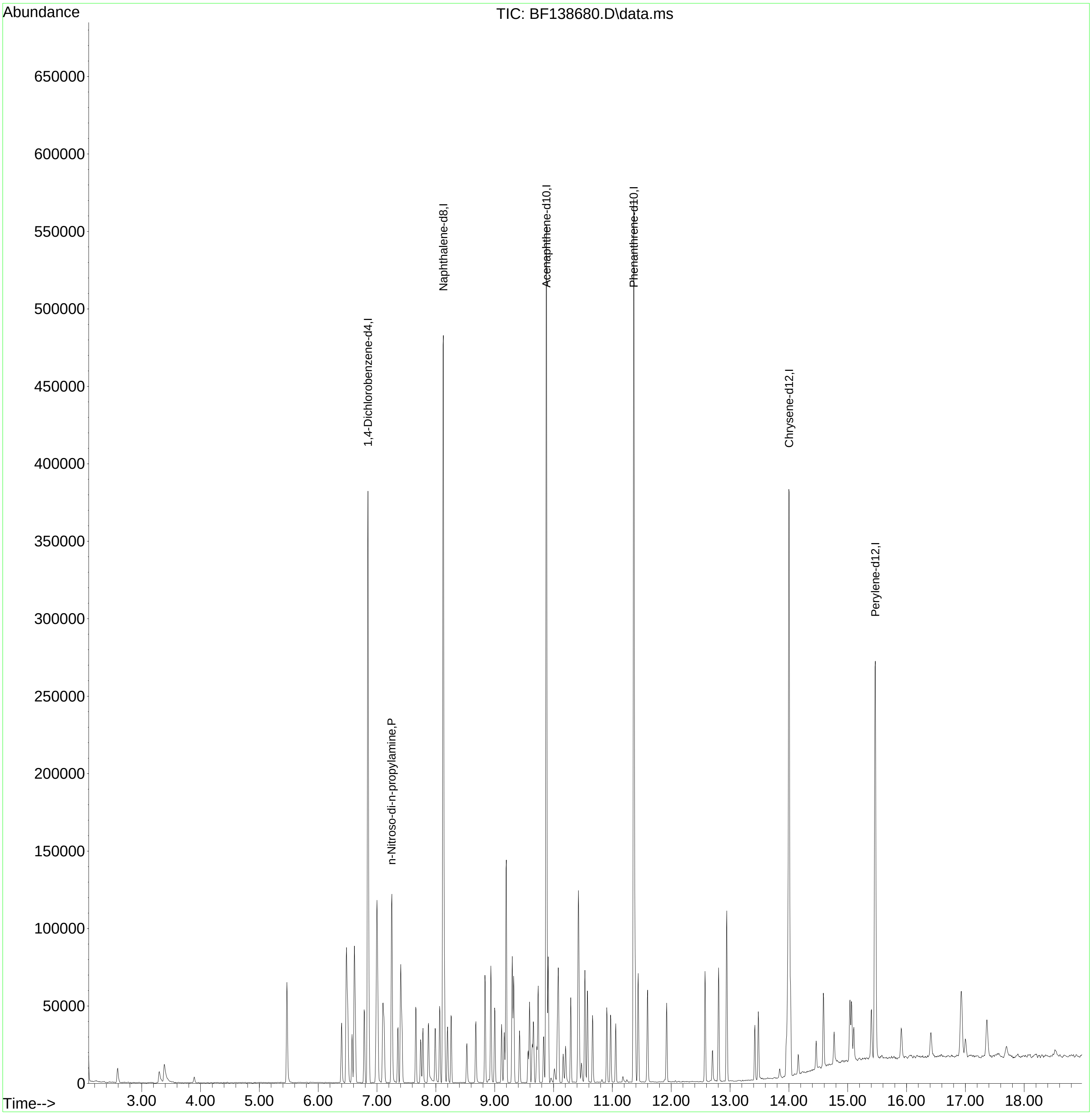
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

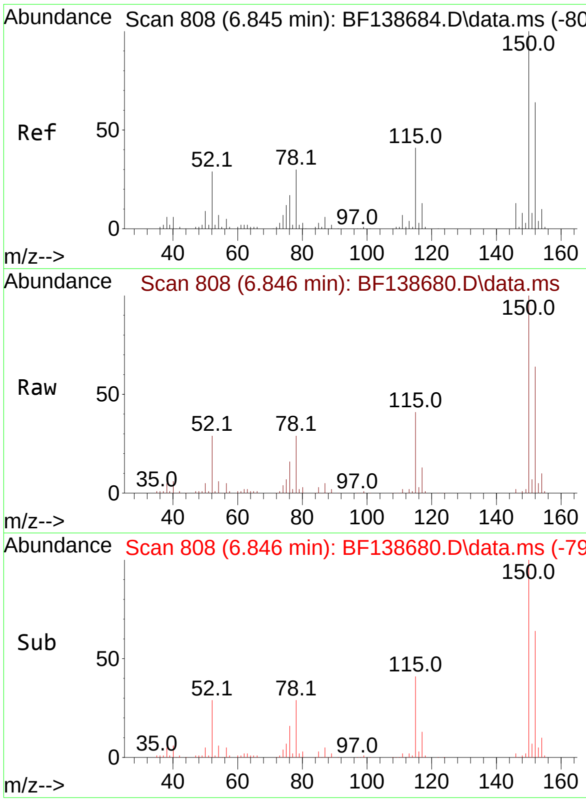
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138680.D
Acq On : 30 Jul 2024 12:54
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 30 17:41:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



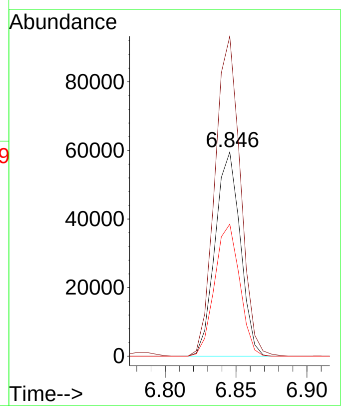
Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

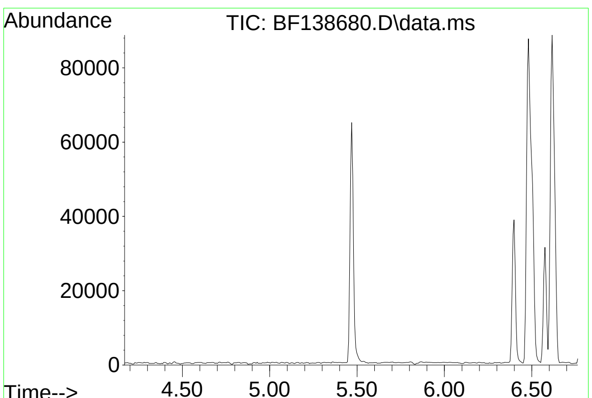


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.846 min   Scan# 8(
Delta R.T.   0.001 min
Lab File: BF138680.D
Acq: 30 Jul 2024   12:54

Tgt Ion:152 Resp: 73346

Ion	Ratio	Lower	Upper
152	100		
150	156.7	126.0	189.0
115	64.6	51.7	77.5



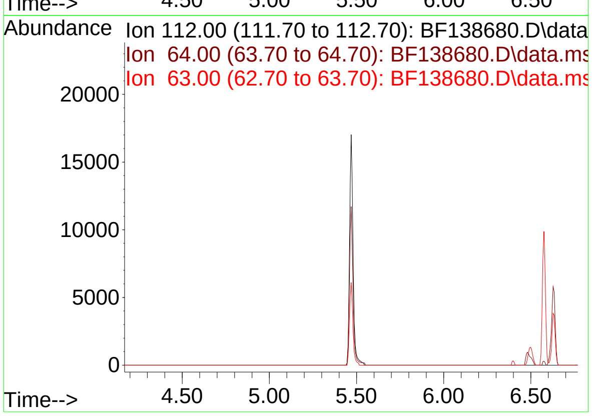


#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.47 min

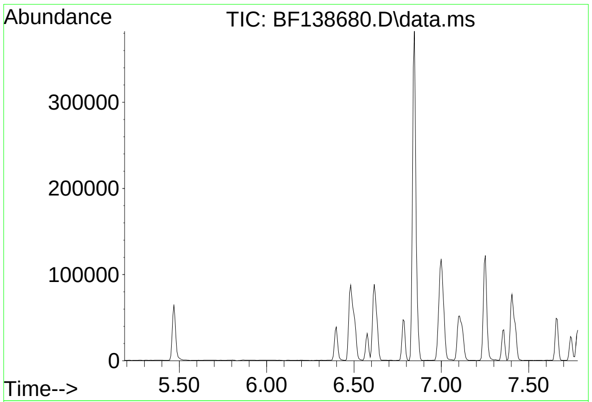
Lab File: BF138680.D
Acq: 30 Jul 2024   12:54

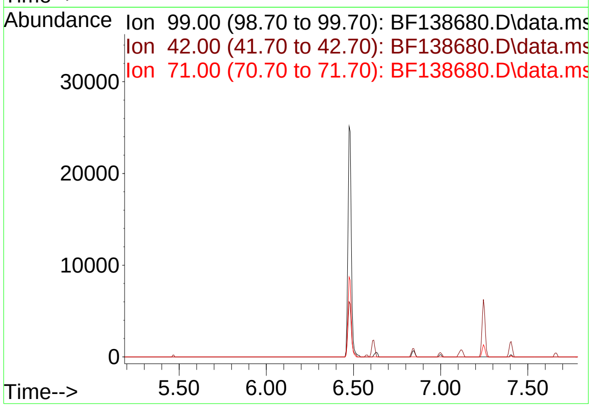
Tgt Ion: 112

Sig	Exp Ratio
112	100
64	67.8
63	35.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5



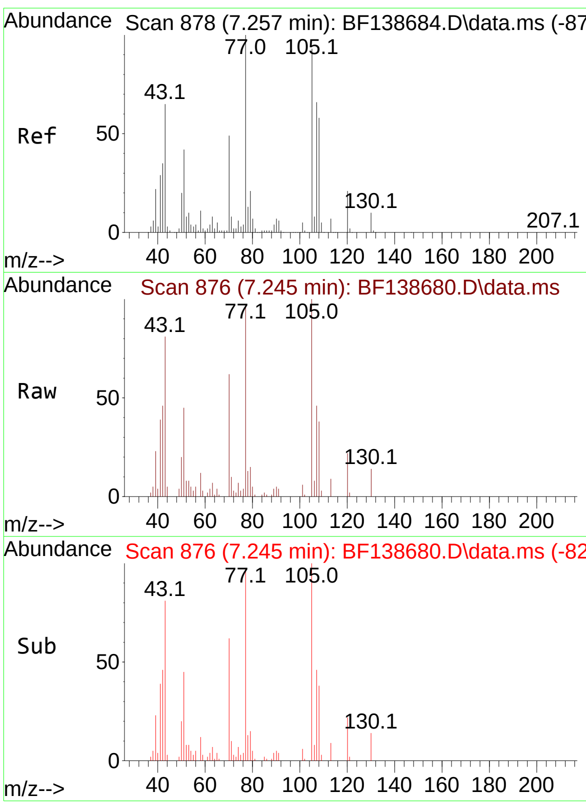


#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.49 min

Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

Tgt Ion: 99

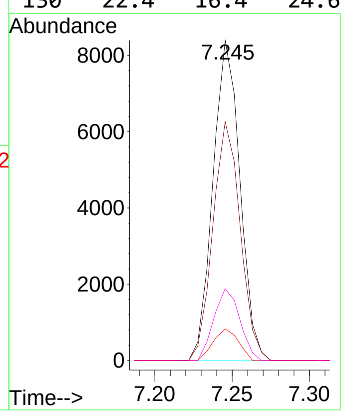
Sig	Exp Ratio
99	100
42	21.7
71	35.1



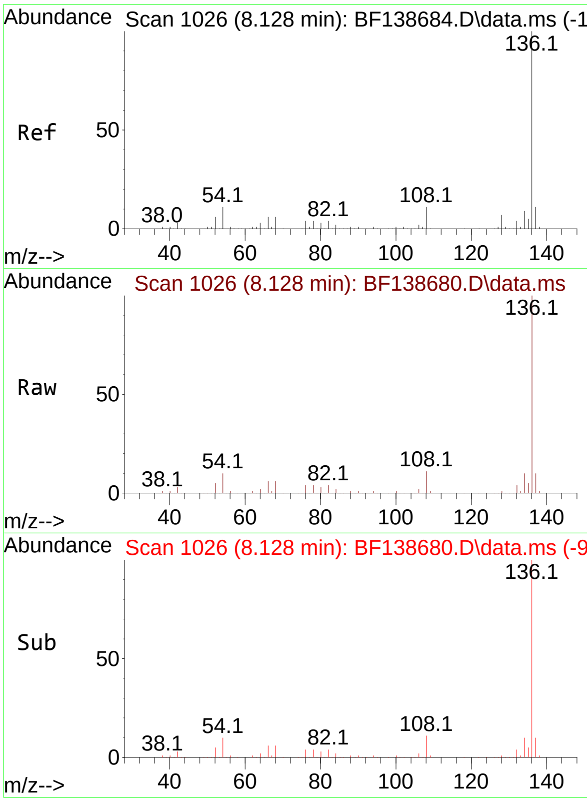
#19
n-Nitroso-di-n-propylamine
Concen: 2.640 ng
RT: 7.245 min Scan# 876
Delta R.T. -0.012 min
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

Tgt Ion: 70 Resp: 10170

Ion	Ratio	Lower	Upper
70	100		
42	74.6	57.4	86.0
101	9.8	7.5	11.3
130	22.4	16.4	24.6



ICAL Form



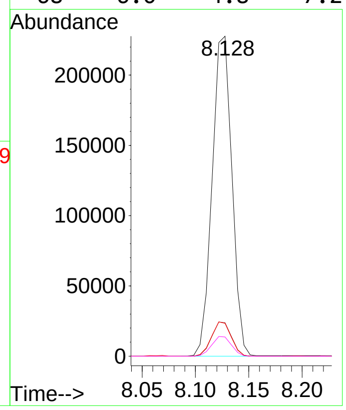
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1

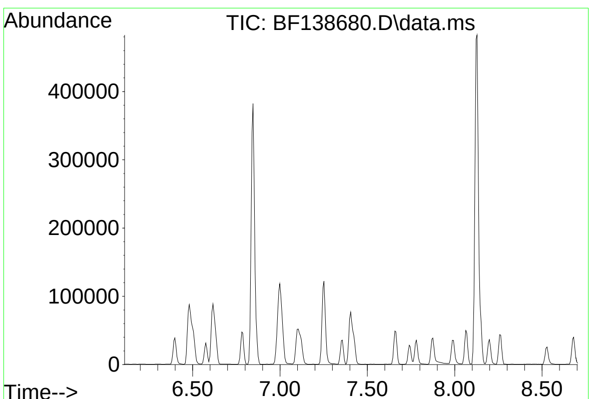
Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Delta R.T. 0.000 min
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

Tgt Ion:136 Resp: 293951

Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.9	13.3
54	10.2	8.6	12.8
68	6.0	4.8	7.2



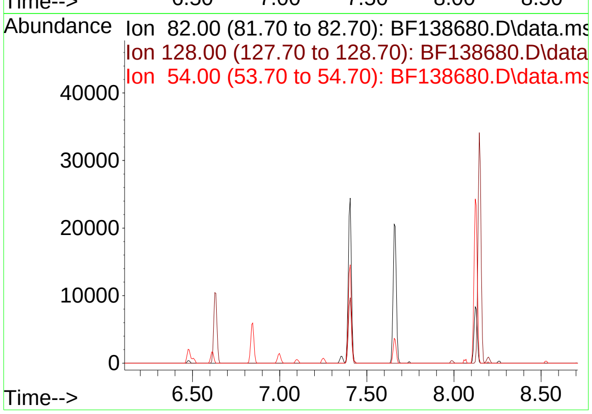


#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.41 min

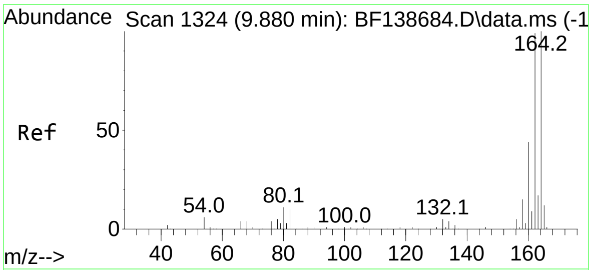
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

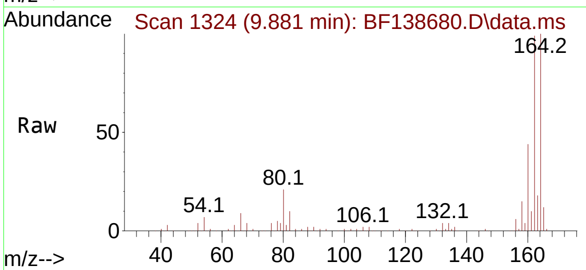
Tgt Ion: 82

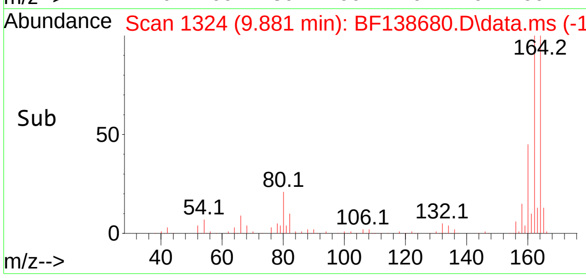
Sig	Exp Ratio
82	100
128	41.0
54	60.4



ICAL Form





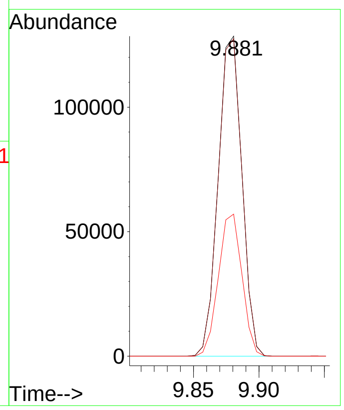


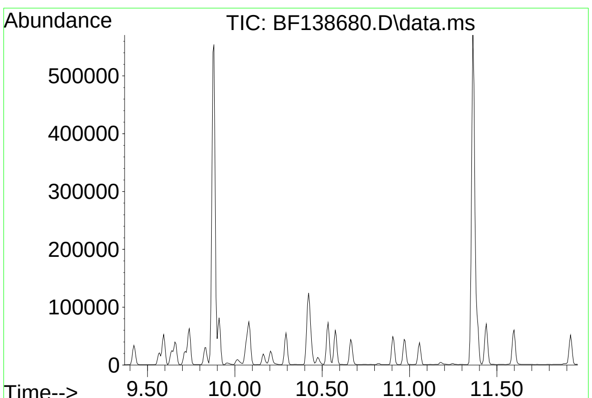
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min   Scan# 1
Delta R.T.   0.001 min
Lab File: BF138680.D
Acq: 30 Jul 2024   12:54

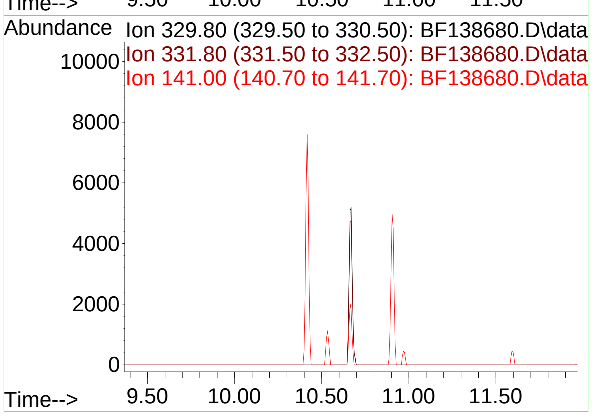
Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 161886

Ion	Ratio	Lower	Upper
164	100		
162	99.2	79.4	119.0
160	44.4	35.1	52.7







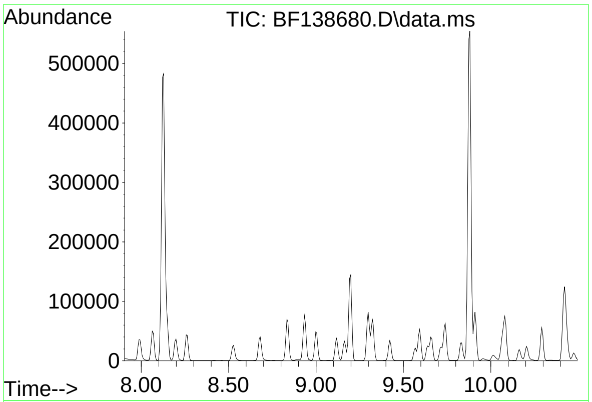
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.67 min

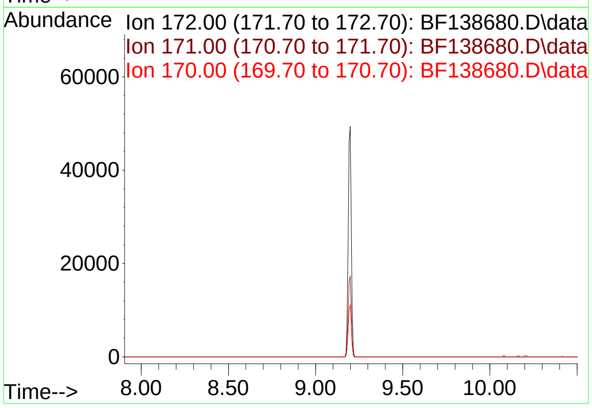
Lab File: BF138680.D
Acq: 30 Jul 2024   12:54

Tgt Ion: 330

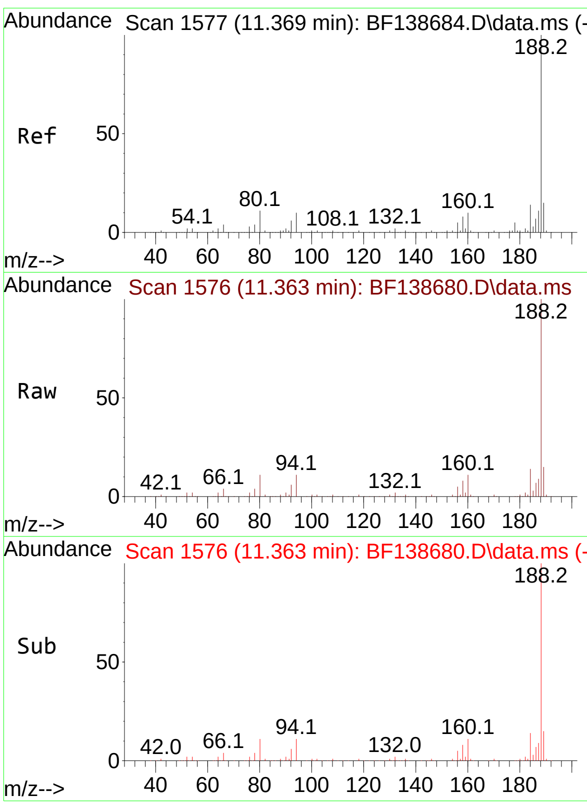
Sig	Exp Ratio
330	100
332	95.5
141	38.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

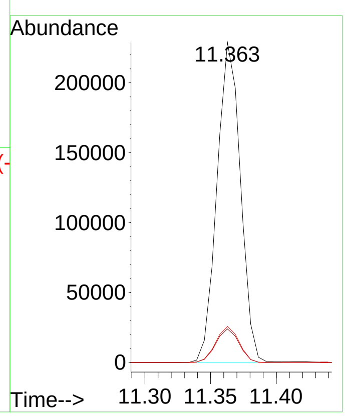




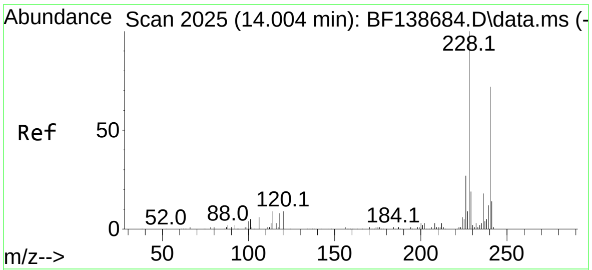

```
#45
2-Fluorobiphenyl
Concen:     0.000 ng
Expected RT: 9.20 min

Lab File:    BF138680.D
Acq: 30 Jul 2024   12:54

Tgt Ion: 172
Sig      Exp Ratio
172        100
171         35.4
170         23.5
```

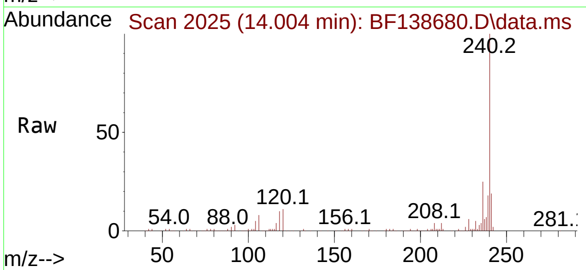


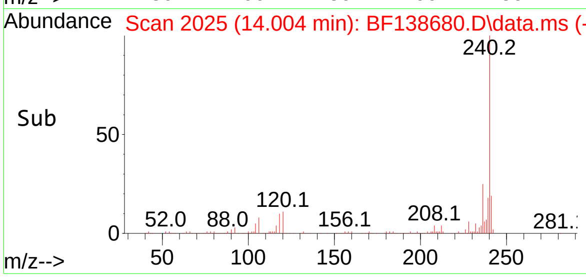

```
#64
Phenanthrene-d10
Concen:   20.000 ng
RT:  11.363 min   Scan# 1576
Delta R.T.   -0.006 min
Lab File:    BF138680.D
Acq: 30 Jul 2024   12:54

Tgt Ion:188 Resp:   284722
Ion  Ratio  Lower  Upper
188  100
 94   10.5    7.6   11.4
 80   11.3    8.6   12.8
```



Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5



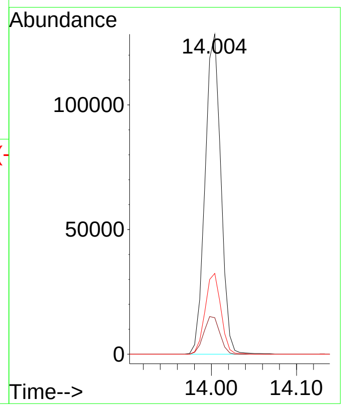


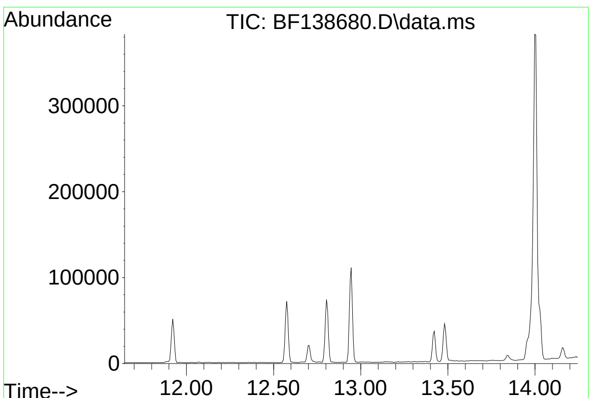


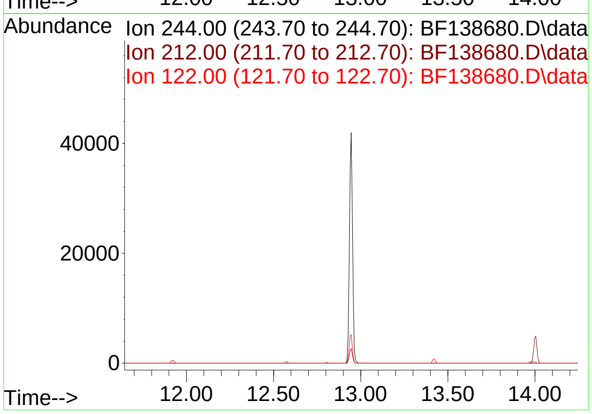
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

Tgt Ion:240 Resp: 165574

Ion	Ratio	Lower	Upper
240	100		
120	11.4	10.2	15.4
236	25.3	19.8	29.8







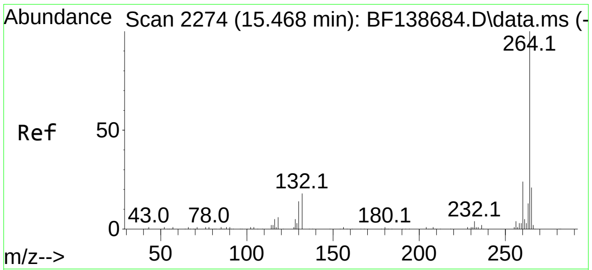
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.95 min

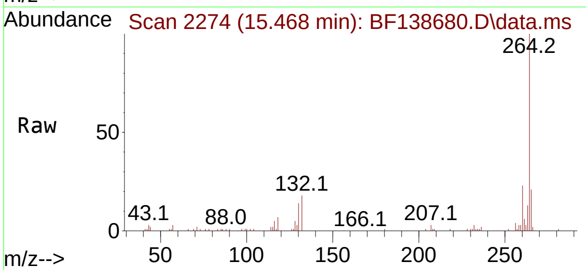
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

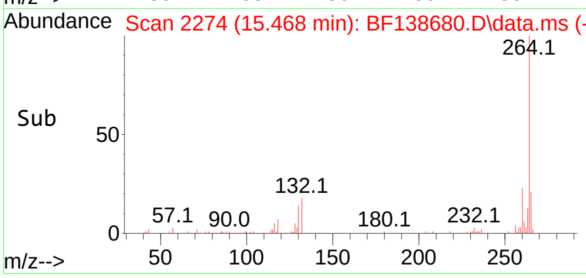
Tgt Ion: 244

Sig	Exp Ratio
244	100
212	6.8
122	12.0

ICAL Form





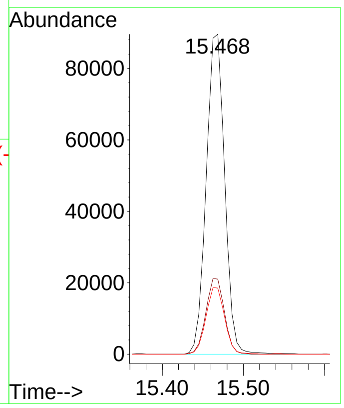


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 141601

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.0	28.6
265	20.6	17.0	25.6



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138681.D
Acq On   : 30 Jul 2024 13:25
Operator : RC/JU
Sample   : SSTDICC005
Misc   :
ALS Vial : 3   Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SSTDICC005

Quant Time: Jul 30 17:41:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	70137	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	290994	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	157274	20.000	ng	0.00
64) Phenanthrene-d10	11.363	188	264044	20.000	ng	0.00
76) Chrysene-d12	14.004	240	144971	20.000	ng	0.00
86) Perylene-d12	15.463	264	139476	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	49224	10.834	ng	0.00
7) Phenol-d6	6.475	99	67958	11.140	ng	-0.01
23) Nitrobenzene-d5	7.404	82	61942	10.407	ng	0.00
42) 2,4,6-Tribromophenol	10.669	330	13218	10.260	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	118878	11.357	ng	0.00
79) Terphenyl-d14	12.945	244	91621	10.581	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.593	88	10463	5.260	ng	98
3) Pyridine	3.369	79	24069	4.995	ng	97
4) n-Nitrosodimethylamine	3.287	42	14249	4.965	ng	# 96
6) Aniline	6.504	93	29043	5.339	ng	99
8) 2-Chlorophenol	6.628	128	25801	5.397	ng	94
9) Benzaldehyde	6.398	77	21562	5.896	ng	98
10) Phenol	6.493	94	35277	5.492	ng	98
11) bis(2-Chloroethyl)ether	6.575	93	26204	5.302	ng	98
12) 1,3-Dichlorobenzene	6.787	146	29587	5.529	ng	99
13) 1,4-Dichlorobenzene	6.863	146	29620	5.485	ng	97
14) 1,2-Dichlorobenzene	7.010	146	28415	5.630	ng	99
15) Benzyl Alcohol	6.987	79	23244	5.287	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.116	45	47247	5.555	ng	96
17) 2-Methylphenol	7.098	107	20893	5.293	ng	96
18) Hexachloroethane	7.351	117	10859	5.342	ng	98
19) n-Nitroso-di-n-propyla...	7.245	70	19805	5.375	ng	96
20) 3+4-Methylphenols	7.251	107	29122	5.750	ng	97
22) Acetophenone	7.251	105	39162	5.496	ng	97
24) Nitrobenzene	7.422	77	31388	5.183	ng	99
25) Isophorone	7.663	82	53456	5.260	ng	100
26) 2-Nitrophenol	7.739	139	12268	4.708	ng	93
27) 2,4-Dimethylphenol	7.781	122	15906	5.102	ng	99
28) bis(2-Chloroethoxy)met...	7.869	93	32570	5.263	ng	99
29) 2,4-Dichlorophenol	7.987	162	20263	5.058	ng	98
30) 1,2,4-Trichlorobenzene	8.063	180	25030	5.414	ng	99
31) Naphthalene	8.145	128	81757	5.338	ng	100
33) 4-Chloroaniline	8.198	127	25753	5.009	ng	98
34) Hexachlorobutadiene	8.263	225	14945	5.337	ng	99
35) Caprolactam	8.528	113	5694	4.763	ng	98
36) 4-Chloro-3-methylphenol	8.681	107	23684	5.173	ng	94
37) 2-Methylnaphthalene	8.834	142	52614	5.439	ng	99
38) 1-Methylnaphthalene	8.934	142	51855	5.470	ng	99
40) 1,2,4,5-Tetrachloroben...	8.998	216	23837	5.456	ng	96
43) 2,4,6-Trichlorophenol	9.116	196	13303	4.994	ng	98
44) 2,4,5-Trichlorophenol	9.163	196	14479	4.972	ng	99
46) 1,1'-Biphenyl	9.298	154	67394	5.471	ng	98

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138681.D
Acq On : 30 Jul 2024 13:25
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Jul 30 17:41:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
47) 2-Chloronaphthalene	9.322	162	49660	5.421 ng		100
48) 2-Nitroaniline	9.422	65	15473	4.982 ng		95
49) Acenaphthylene	9.739	152	70622	5.435 ng		99
50) Dimethylphthalate	9.592	163	52521	5.223 ng		99
51) 2,6-Dinitrotoluene	9.663	165	11264	4.963 ng		95
52) Acenaphthene	9.910	154	47866	5.480 ng		98
53) 3-Nitroaniline	9.833	138	12123	5.167 ng		99
55) Dibenzofuran	10.081	168	67994	5.515 ng		99
57) 2,4-Dinitrotoluene	10.069	165	14816	5.117 ng	#	98
58) Fluorene	10.428	166	54036	5.504 ng		98
59) 2,3,4,6-Tetrachlorophenol	10.204	232	10608	4.765 ng	#	96
60) Diethylphthalate	10.292	149	49851	5.228 ng		98
61) 4-Chlorophenyl-phenyle...	10.416	204	26020	5.389 ng		99
62) 4-Nitroaniline	10.439	138	11156	5.004 ng		97
63) Azobenzene	10.575	77	56096	5.304 ng		99
66) n-Nitrosodiphenylamine	10.533	169	42403	5.138 ng		97
67) 4-Bromophenyl-phenylether	10.910	248	14996	5.246 ng		95
68) Hexachlorobenzene	10.975	284	15270	5.173 ng		98
69) Atrazine	11.057	200	11256	5.286 ng		99
71) Phenanthrene	11.386	178	73432	5.401 ng		99
72) Anthracene	11.439	178	71415	5.332 ng		98
73) Carbazole	11.598	167	64031	5.541 ng		98
74) Di-n-butylphthalate	11.922	149	65388	5.034 ng		100
75) Fluoranthene	12.574	202	70499	5.554 ng		98
77) Benzidine	12.704	184	17784	5.129 ng		99
78) Pyrene	12.804	202	71695	5.253 ng		100
80) Butylbenzylphthalate	13.421	149	20901	4.782 ng		97
81) Benzo(a)anthracene	13.992	228	50774	5.086 ng		99
82) 3,3'-Dichlorobenzidine	13.957	252	14073	5.509 ng		98
83) Chrysene	14.027	228	48647	5.401 ng		98
84) Bis(2-ethylhexyl)phtha...	13.980	149	31754	4.961 ng		99
85) Di-n-octyl phthalate	14.592	149	59336	5.011 ng		99
87) Indeno(1,2,3-cd)pyrene	16.921	276	51232	5.126 ng		100
88) Benzo(b)fluoranthene	15.039	252	44859	5.188 ng		99
89) Benzo(k)fluoranthene	15.063	252	41920	5.600 ng		99
90) Benzo(a)pyrene	15.404	252	37810	5.199 ng		99
91) Dibenzo(a,h)anthracene	16.933	278	42736	5.209 ng		98
92) Benzo(g,h,i)perylene	17.362	276	43978	5.165 ng		99

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

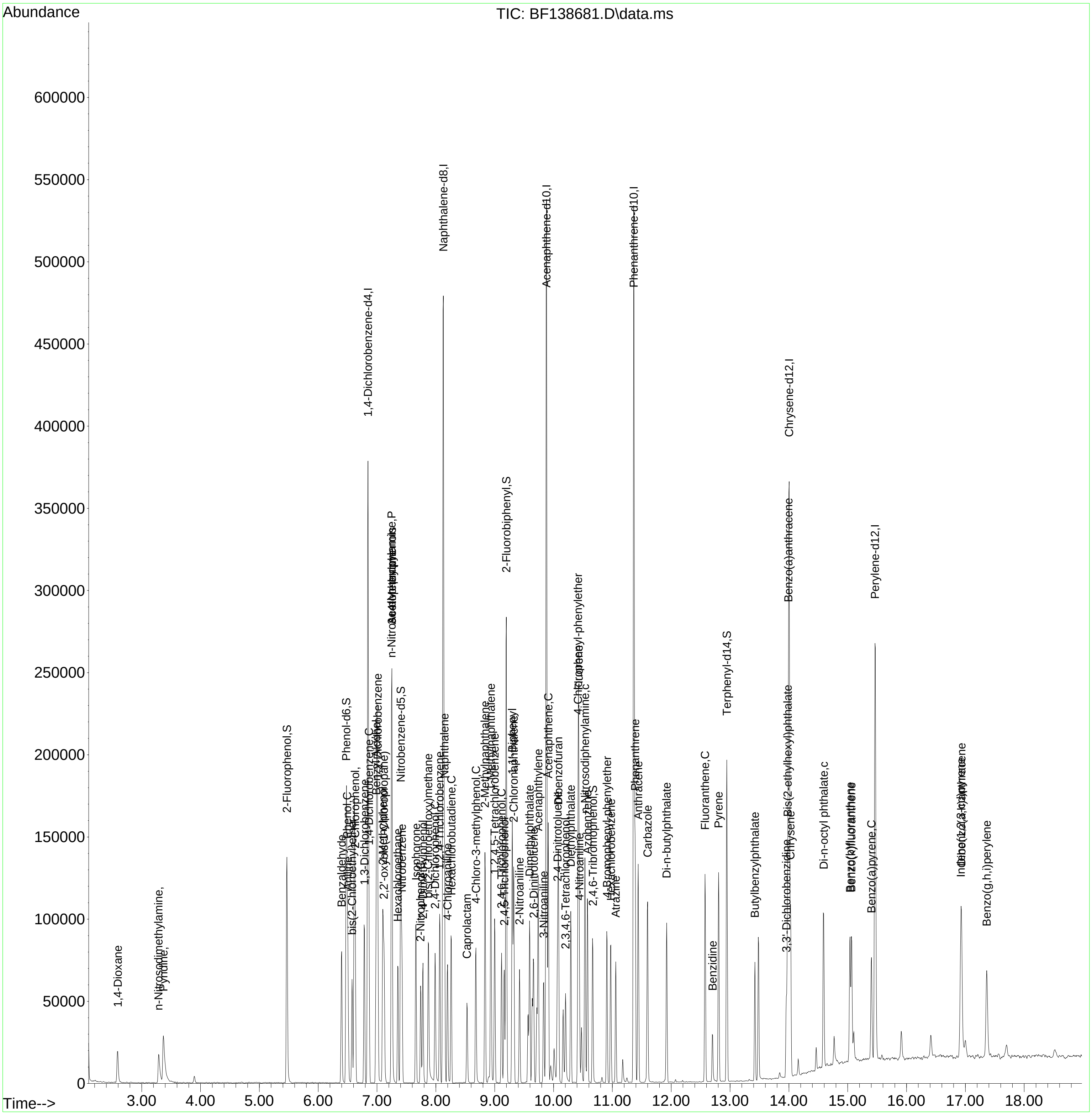
Quantitation Report (QT Reviewed)

ICAL Form

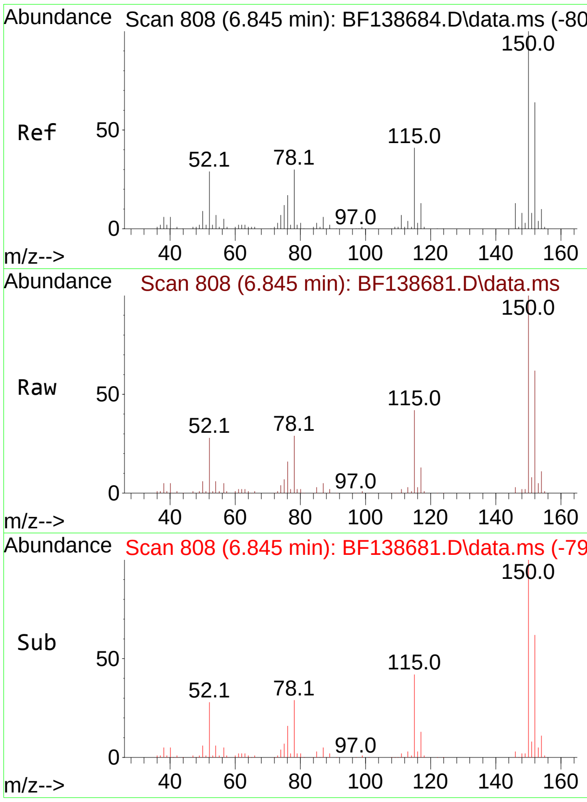
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138681.D
Acq On : 30 Jul 2024 13:25
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Jul 30 17:41:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



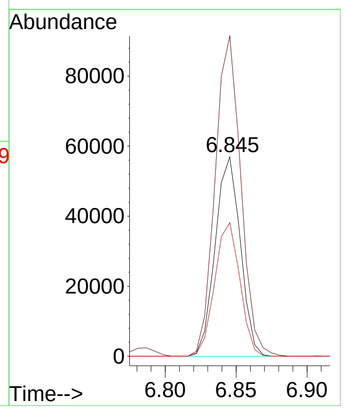
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

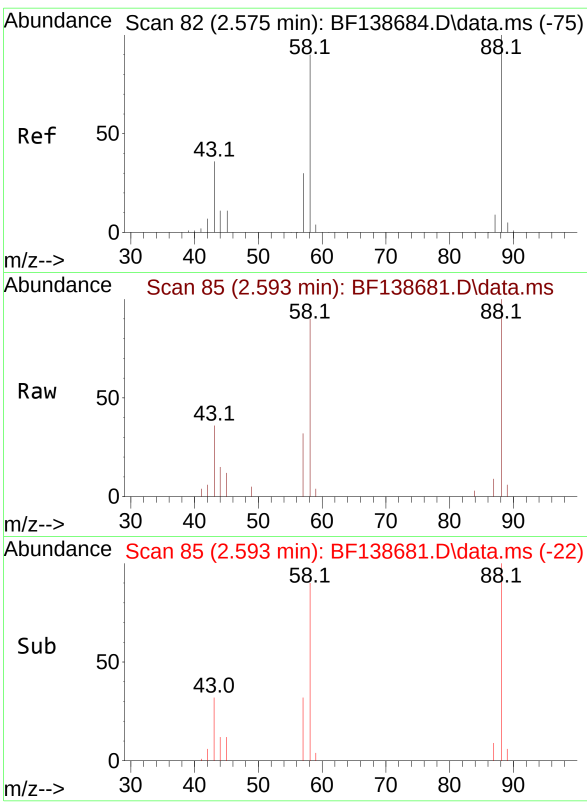


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:152 Resp: 70137

Ion	Ratio	Lower	Upper
152	100		
150	160.6	126.0	189.0
115	67.0	51.7	77.5

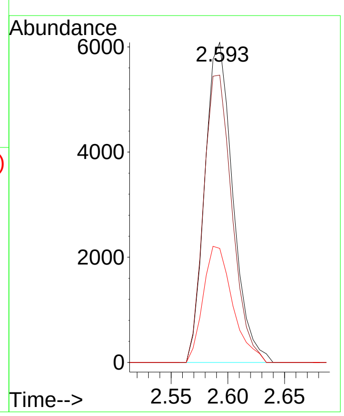




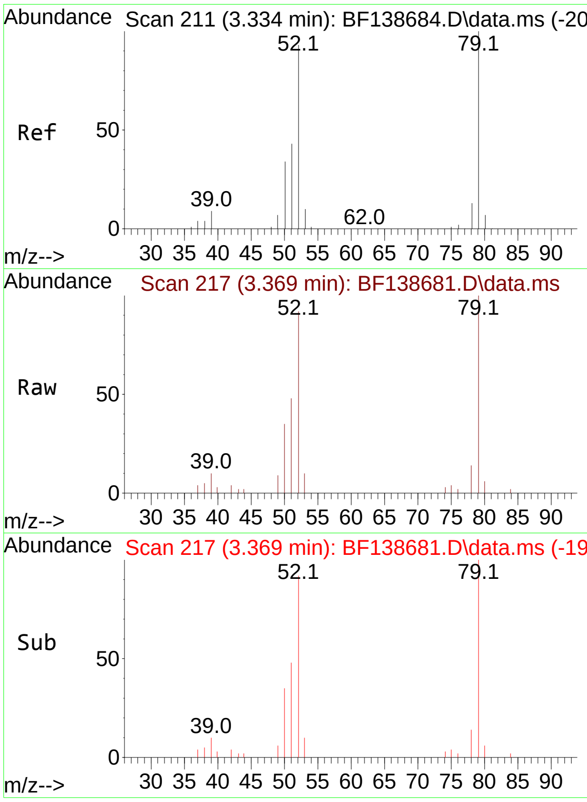
#2
1,4-Dioxane
Concen: 5.260 ng
RT: 2.593 min Scan# 85
Delta R.T. 0.018 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 88 Resp: 10463

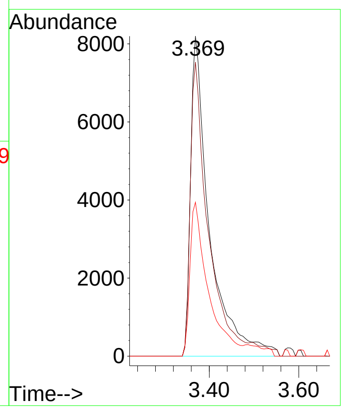
Ion	Ratio	Lower	Upper
88	100		
58	90.9	71.6	107.4
43	38.2	28.7	43.1

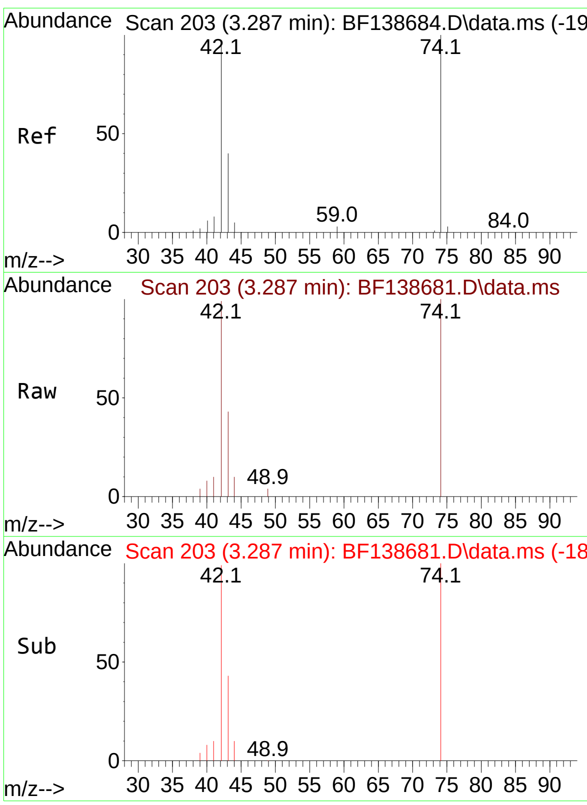


Instrument : BNA_F
ClientSampleId : SSTDICC005

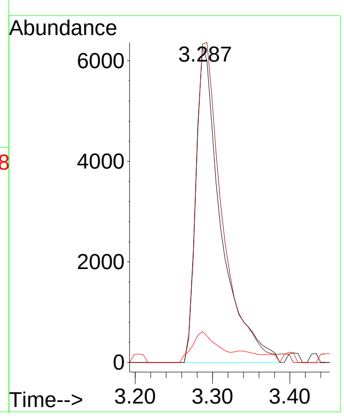



```
#3
Pyridine
Concen:    4.995 ng
RT:   3.369 min  Scan# 2
Delta R.T.  0.035 min
Lab File:   BF138681.D
Acq: 30 Jul 2024  13:25

Tgt Ion: 79 Resp:   24069
Ion  Ratio  Lower  Upper
 79  100
 52   91.9   74.7  112.1
 51   48.1   34.6   51.8
```

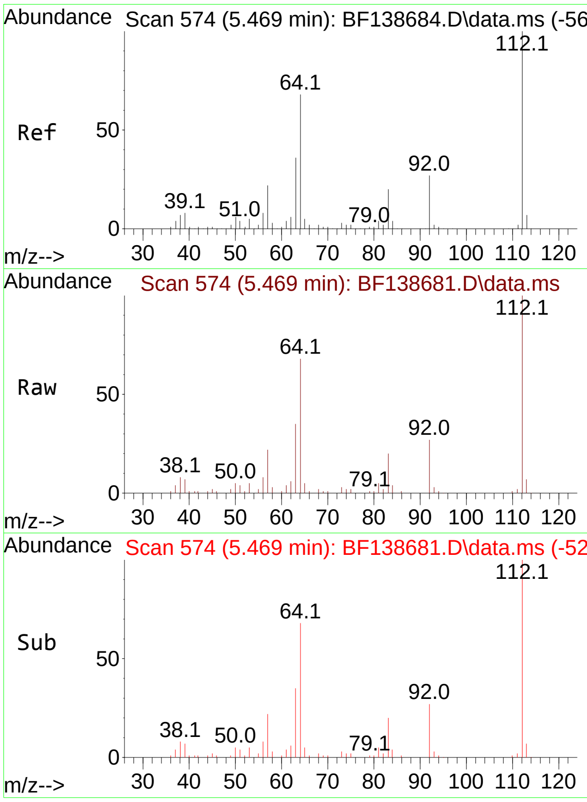





```
#4
n-Nitrosodimethylamine
Concen:    4.965 ng
RT:   3.287 min  Scan# 203
Delta R.T.  0.000 min
Lab File:   BF138681.D
Acq: 30 Jul 2024  13:25

Tgt Ion: 42 Resp:   14249
Ion  Ratio  Lower  Upper
 42  100
 74  101.1   84.2  126.4
 44    9.8    4.9    7.3#
```



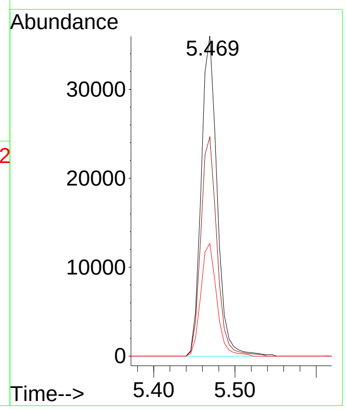
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

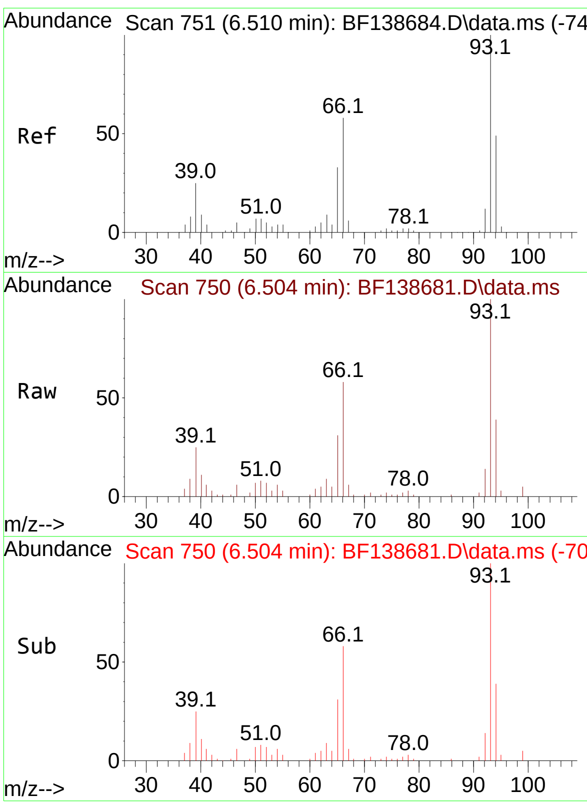


#5
2-Fluorophenol
Concen: 10.834 ng
RT: 5.469 min   Scan# 5
Delta R.T.   0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024   13:25

Tgt Ion:112 Resp: 49224

Ion	Ratio	Lower	Upper
112	100		
64	68.5	54.2	81.4
63	35.2	28.7	43.1

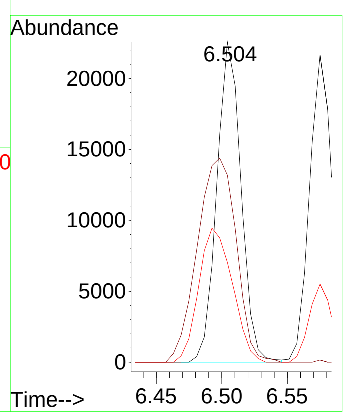




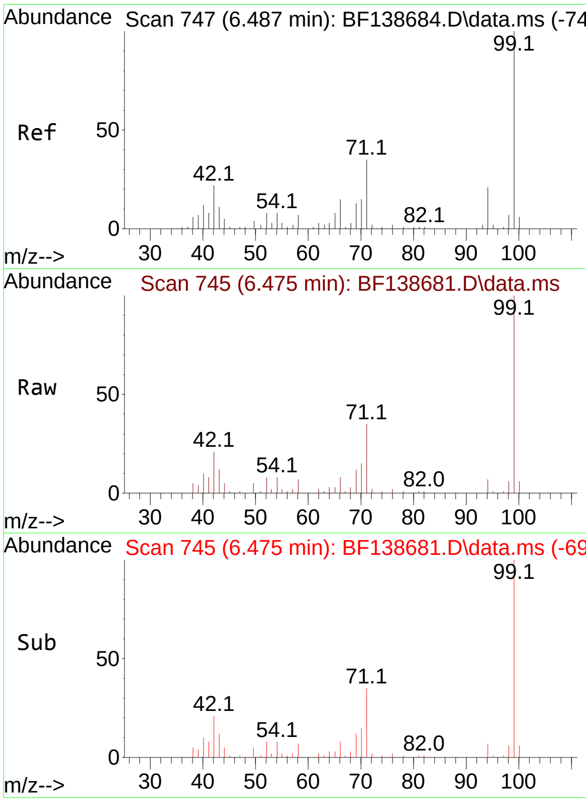
#6
Aniline
Concen: 5.339 ng
RT: 6.504 min   Scan# 750
Delta R.T.   -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024   13:25

Tgt Ion: 93 Resp: 29043

Ion	Ratio	Lower	Upper
93	100		
66	58.4	46.9	70.3
65	31.2	26.5	39.7



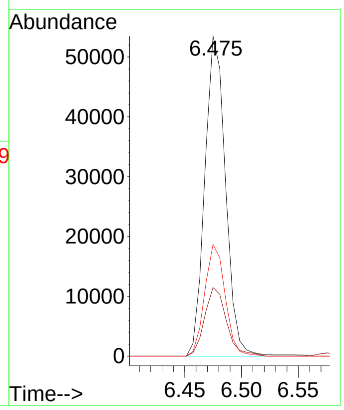
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

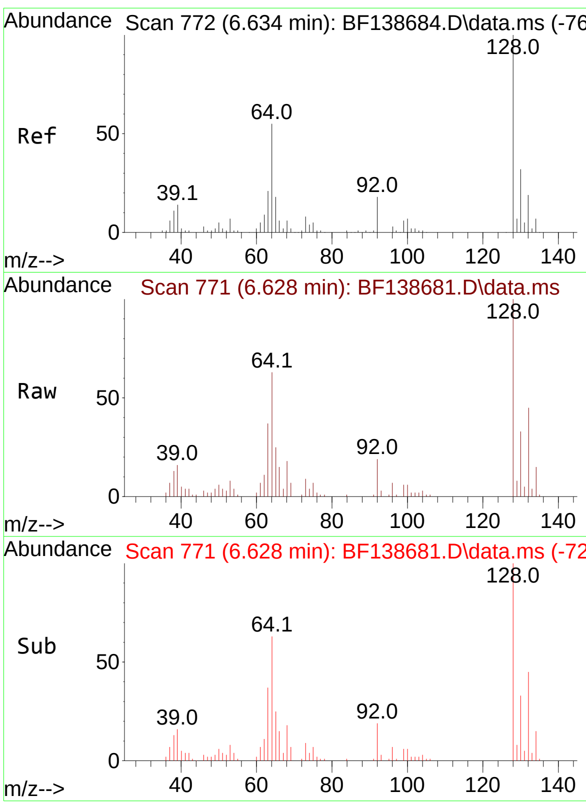


#7
Phenol-d6
Concen: 11.140 ng
RT: 6.475 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 99 Resp: 67958

Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.4	26.0
71	34.9	28.1	42.1

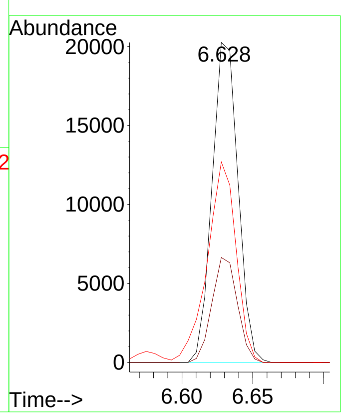




#8
2-Chlorophenol
Concen: 5.397 ng
RT: 6.628 min Scan# 771
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

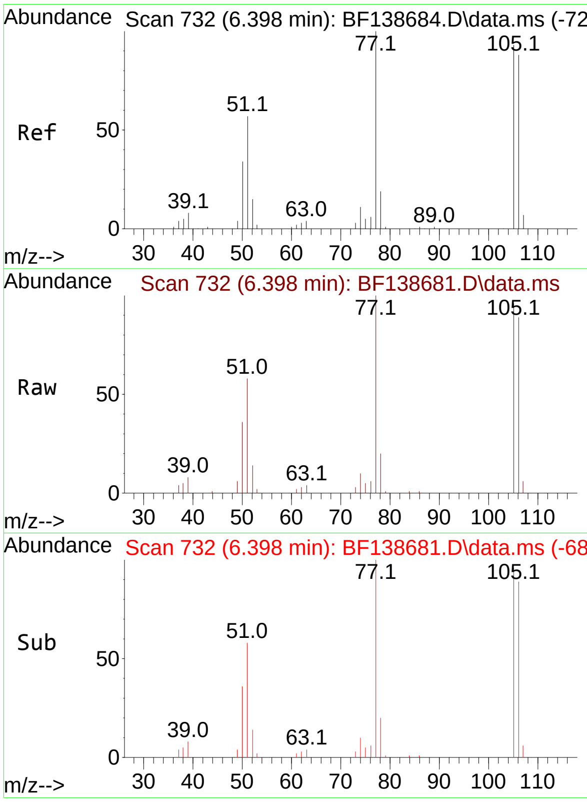
Tgt Ion:128 Resp: 25801

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.0	52.0
64	62.7	36.3	76.3



ICAL Form

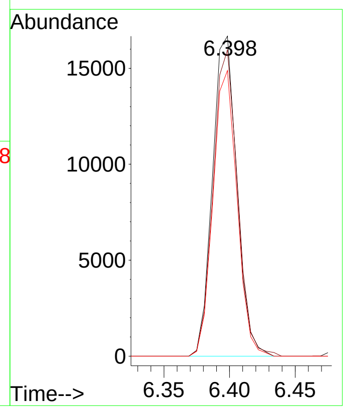
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

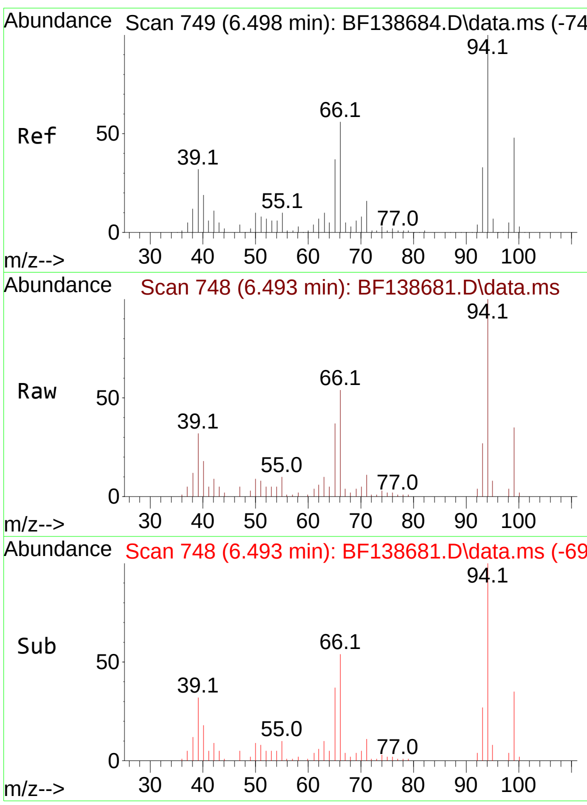


#9
Benzaldehyde
Concen: 5.896 ng
RT: 6.398 min   Scan# 7
Delta R.T.   0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024   13:25

Tgt Ion: 77 Resp: 21562

Ion	Ratio	Lower	Upper
77	100		
105	95.7	72.9	112.9
106	89.3	68.4	108.4

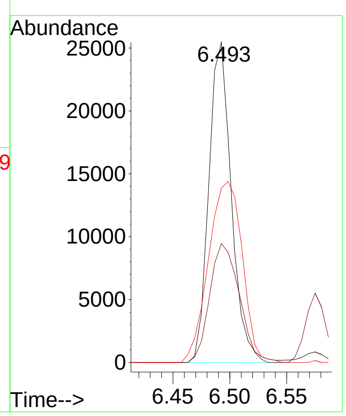




#10
Phenol
Concen: 5.492 ng
RT: 6.493 min   Scan# 748
Delta R.T.   -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024   13:25

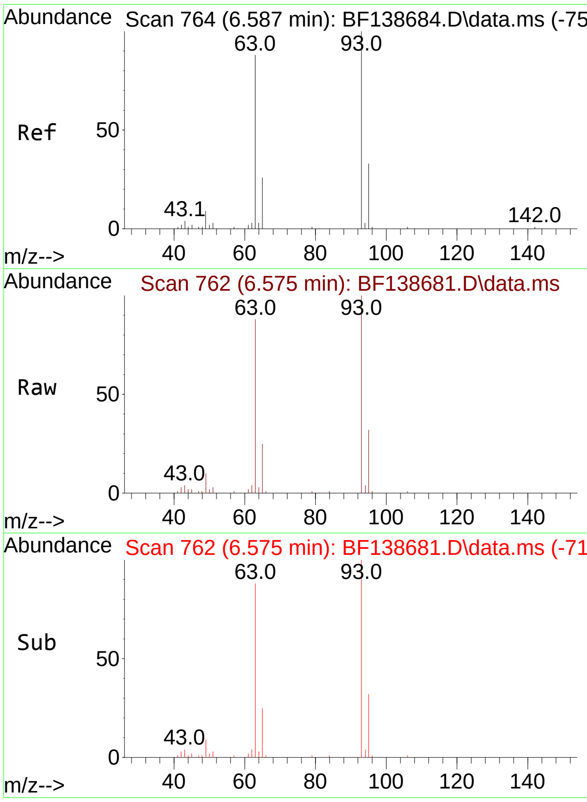
Tgt Ion: 94 Resp: 35277

Ion	Ratio	Lower	Upper
94	100		
65	37.2	16.9	56.9
66	54.5	36.5	76.5



ICAL Form

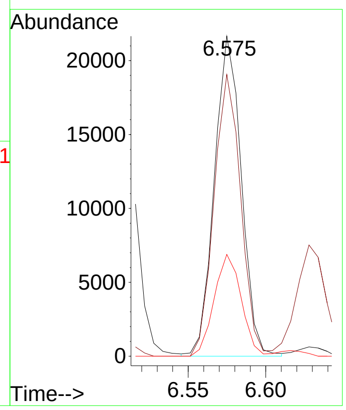
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

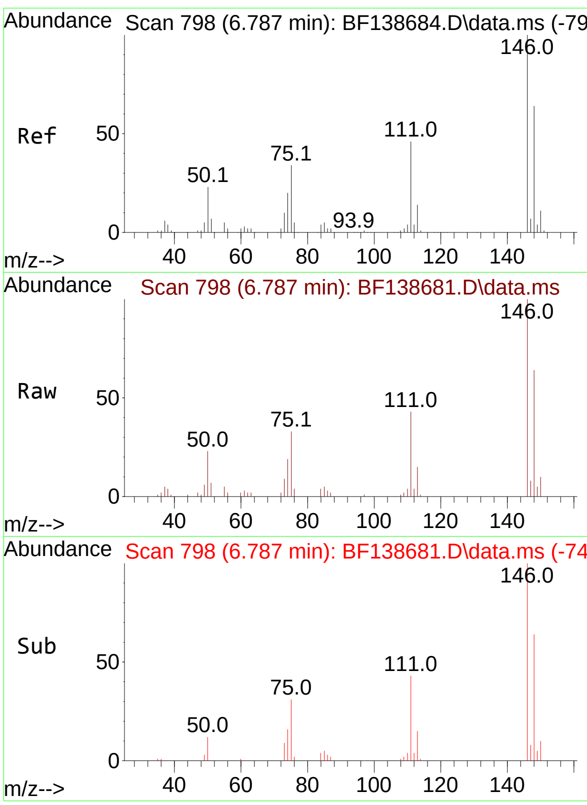


#11
bis(2-Chloroethyl)ether
Concen: 5.302 ng
RT: 6.575 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 93 Resp: 26204

Ion	Ratio	Lower	Upper
93	100		
63	88.0	65.3	105.3
95	31.8	12.4	52.4

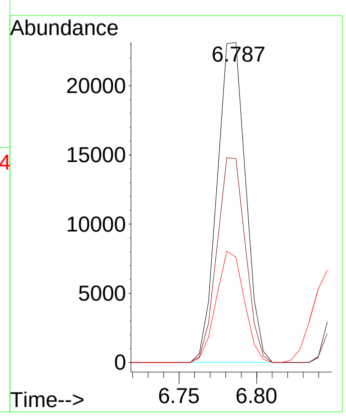




#12
1,3-Dichlorobenzene
Concen: 5.529 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

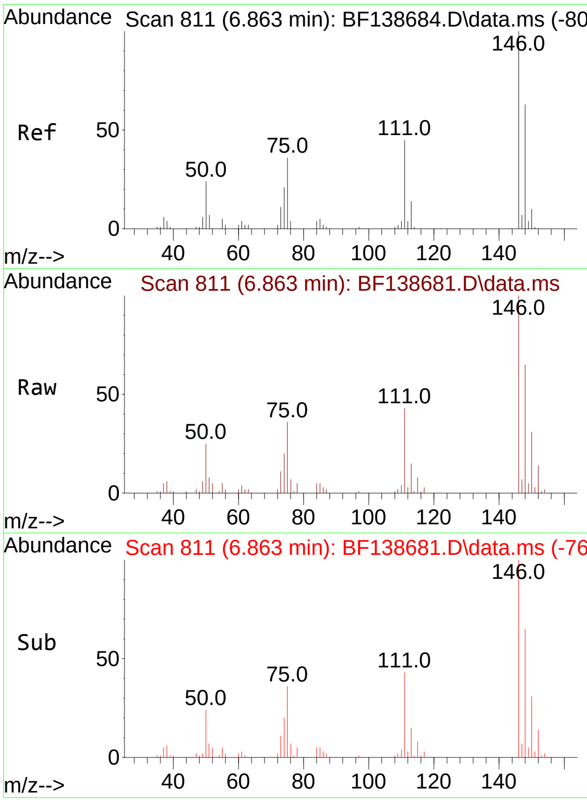
Tgt Ion:146 Resp: 29587

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.2	76.8
75	32.9	27.4	41.2

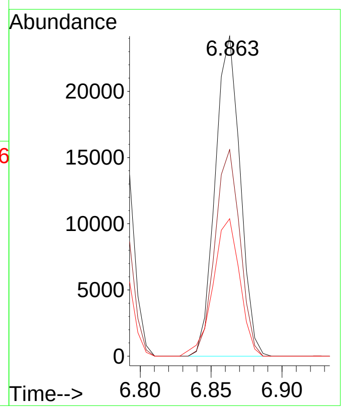


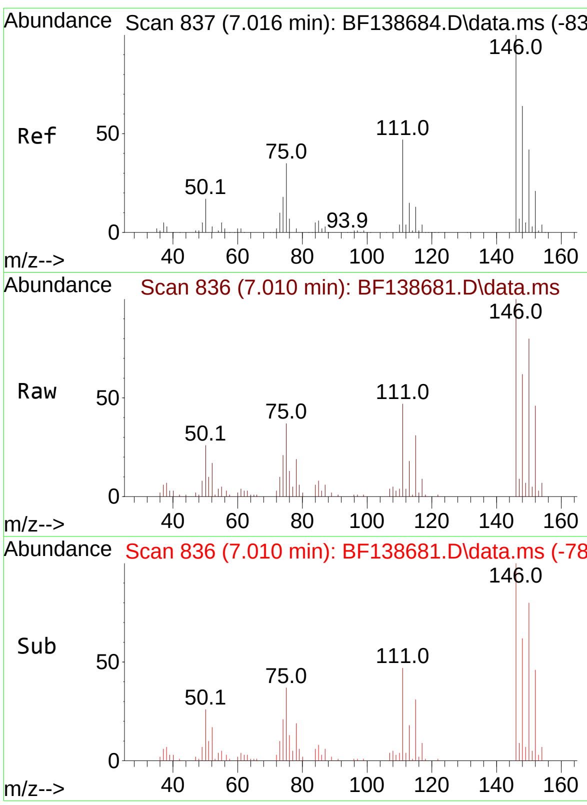
ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

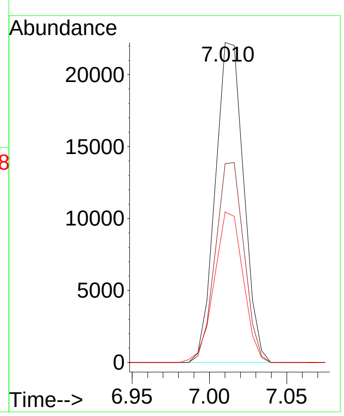



```
#13
1,4-Dichlorobenzene
Concen:     5.485 ng
RT:   6.863 min   Scan# 81
Delta R.T.   0.000 min
Lab File:    BF138681.D
Acq: 30 Jul 2024   13:25

Tgt Ion:146 Resp:    29620
Ion   Ratio   Lower   Upper
146   100
148    64.6    50.2    75.2
111    42.9    35.9    53.9
```

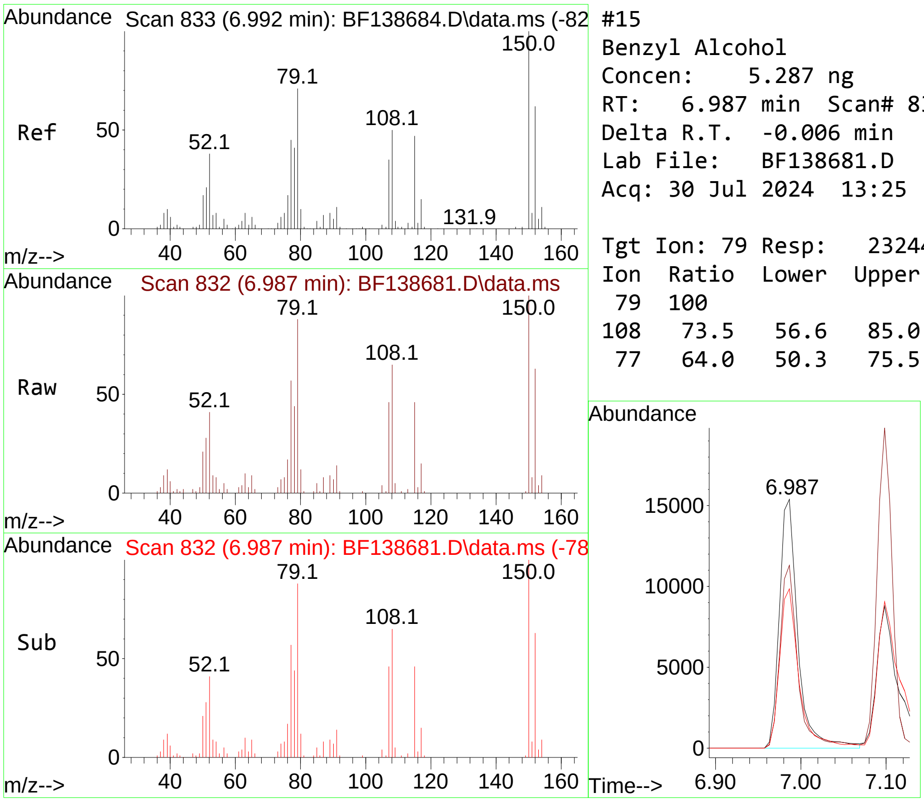





```
#14
1,2-Dichlorobenzene
Concen:     5.630 ng
RT:   7.010 min   Scan# 836
Delta R.T.   -0.006 min
Lab File:    BF138681.D
Acq: 30 Jul 2024   13:25

Tgt Ion:146 Resp:    28415
Ion   Ratio   Lower   Upper
146   100
148    62.1    50.8    76.2
111    47.0    37.4    56.2
```



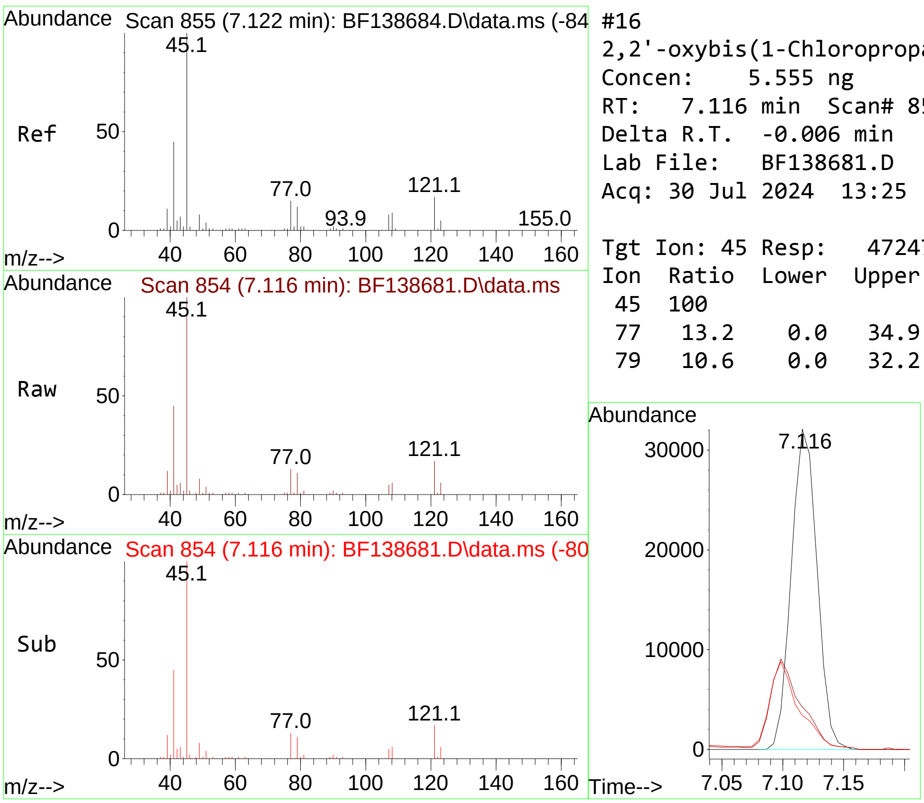
Instrument :
BNA_F
ClientSampleId :
SSTDICC005



#15
Benzyl Alcohol
Concen: 5.287 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 79 Resp: 23244

Ion	Ratio	Lower	Upper
79	100		
108	73.5	56.6	85.0
77	64.0	50.3	75.5

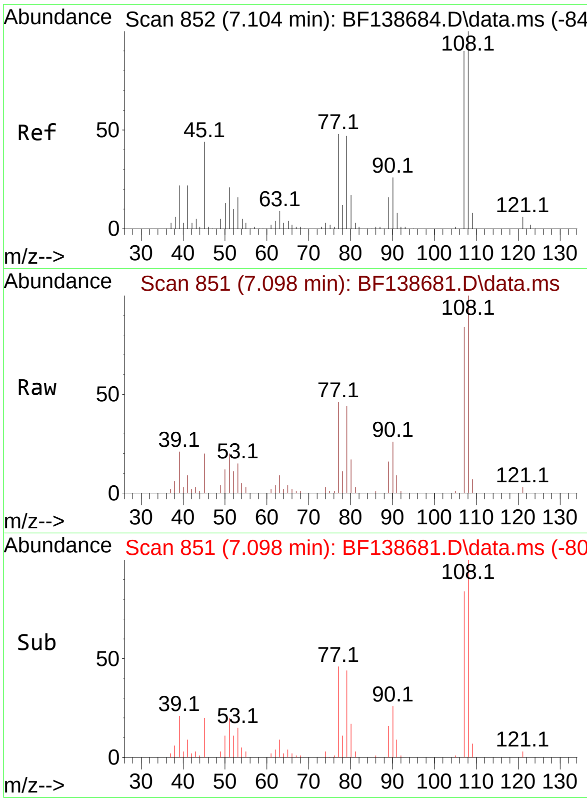


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.555 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 45 Resp: 47247

Ion	Ratio	Lower	Upper
45	100		
77	13.2	0.0	34.9
79	10.6	0.0	32.2

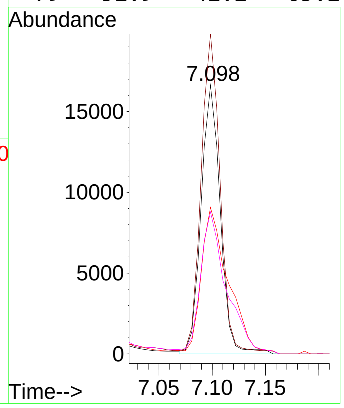
Instrument : BNA_F
ClientSampleId : SSTDICC005

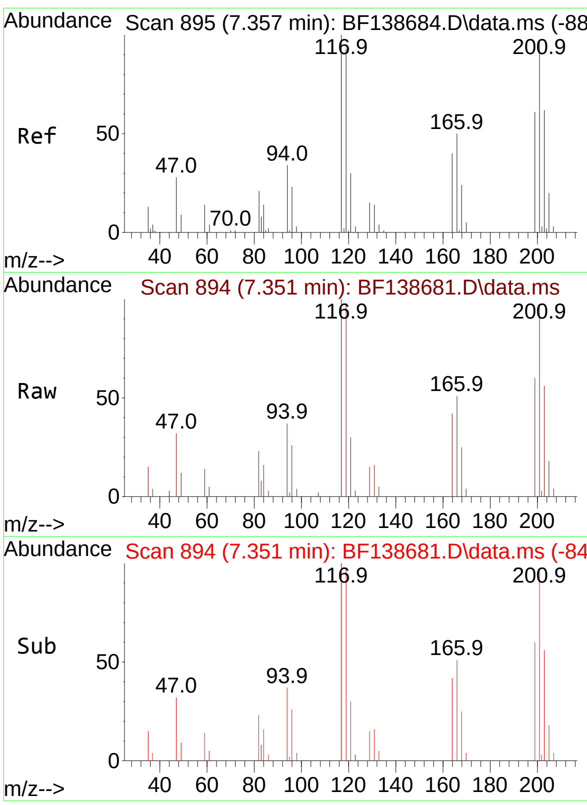


#17
2-Methylphenol
Concen: 5.293 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:107 Resp: 20893

Ion	Ratio	Lower	Upper
107	100		
108	119.2	89.2	133.8
77	54.5	43.0	64.4
79	52.9	42.2	63.2

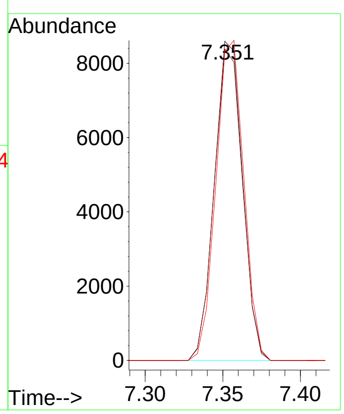




#18
Hexachloroethane
Concen: 5.342 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

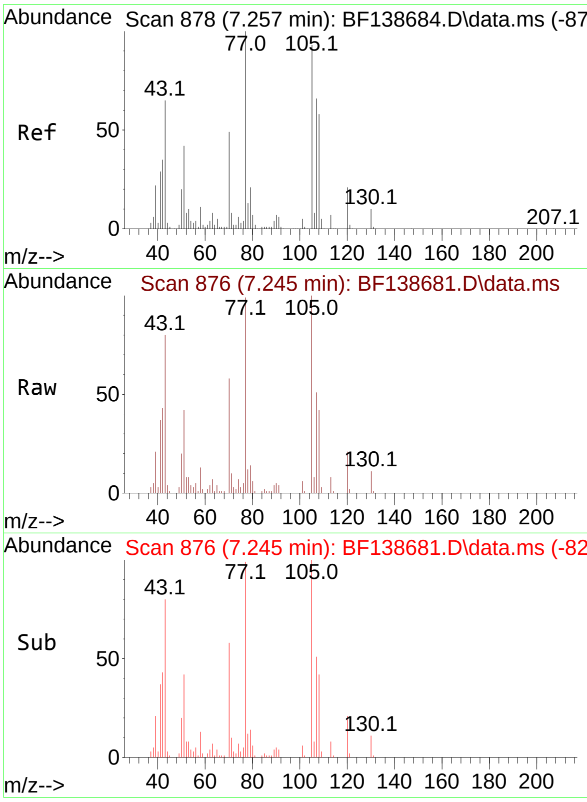
Tgt Ion:117 Resp: 10859

Ion	Ratio	Lower	Upper
117	100		
119	97.6	74.6	111.8
201	96.9	77.2	115.8



Instrument : BNA_F

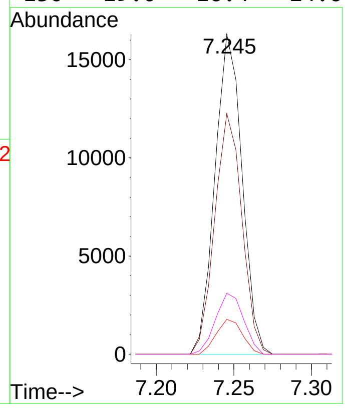
ClientSampleId : SSTDICC005

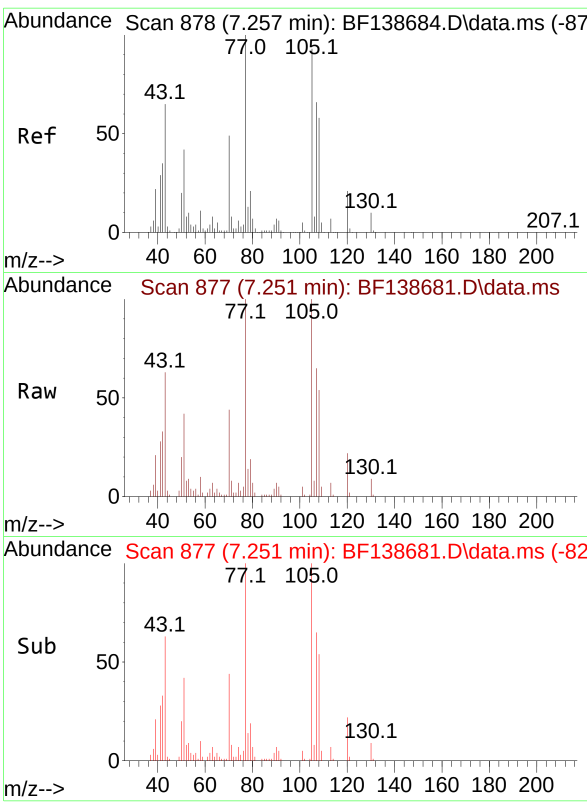


#19
n-Nitroso-di-n-propylamine
Concen: 5.375 ng
RT: 7.245 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 70 Resp: 19805

Ion	Ratio	Lower	Upper
70	100		
42	75.2	57.4	86.0
101	10.9	7.5	11.3
130	19.0	16.4	24.6

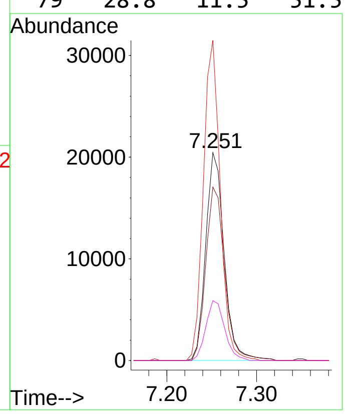




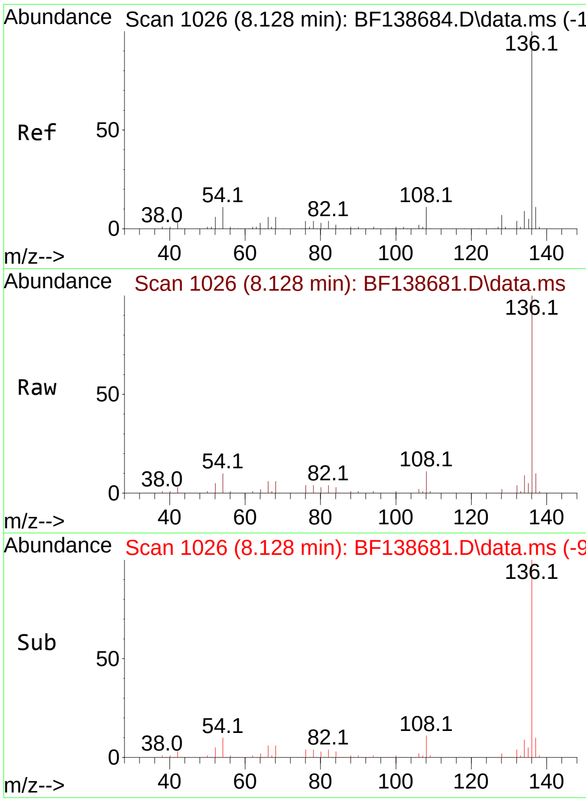
#20
3+4-Methylphenols
Concen: 5.750 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:107 Resp: 29122

Ion	Ratio	Lower	Upper
107	100		
108	83.5	68.2	108.2
77	154.0	132.1	172.1
79	28.8	11.5	51.5



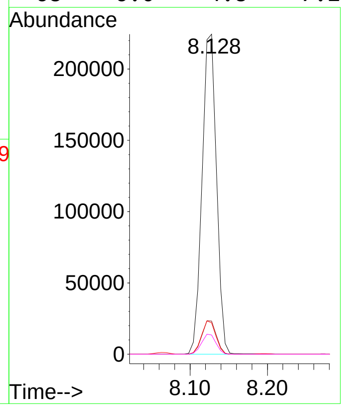
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

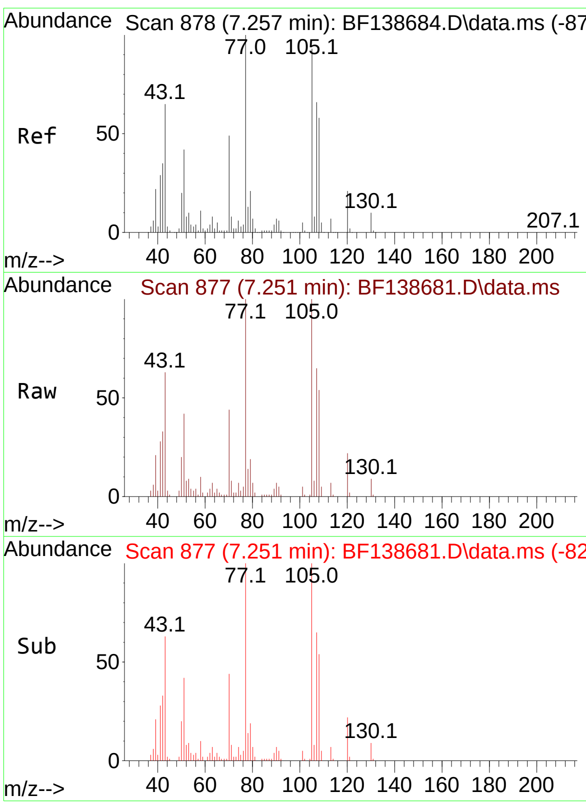


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:136 Resp: 290994

Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.9	13.3
54	9.8	8.6	12.8
68	6.0	4.8	7.2

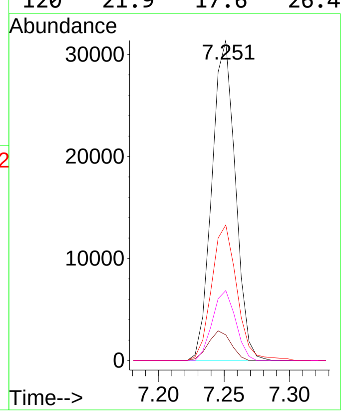




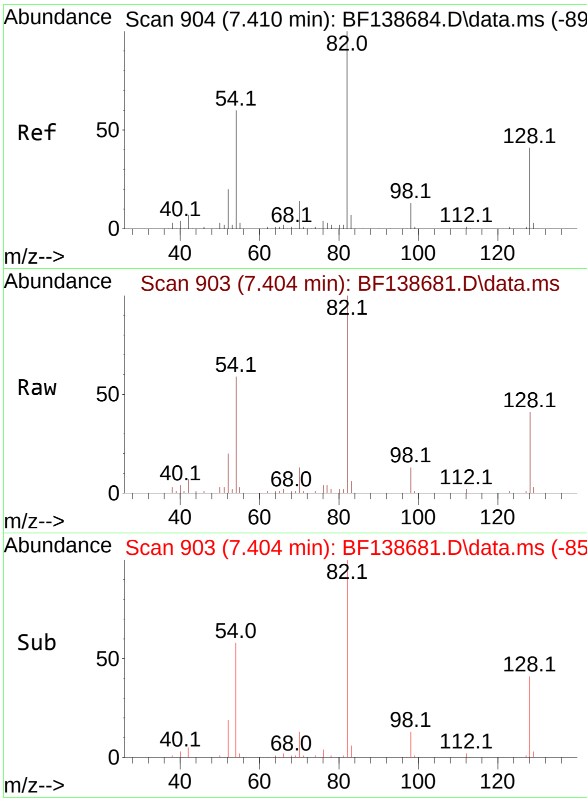
#22
Acetophenone
Concen: 5.496 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:105 Resp: 39162

Ion	Ratio	Lower	Upper
105	100		
71	8.0	7.2	10.8
51	42.3	35.9	53.9
120	21.9	17.6	26.4



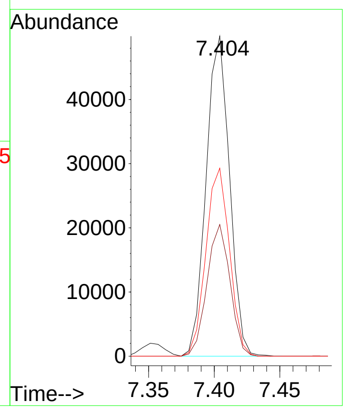
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

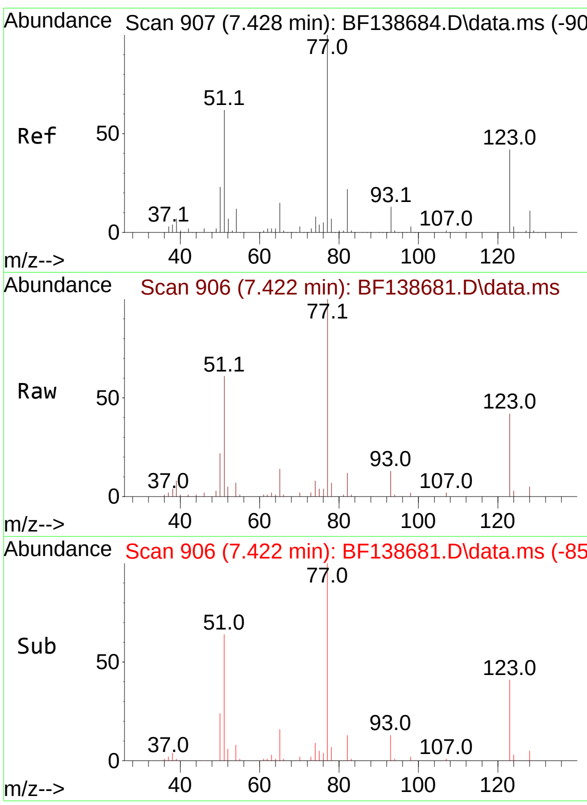


#23
Nitrobenzene-d5
Concen: 10.407 ng
RT: 7.404 min Scan# 90
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 82 Resp: 61942

Ion	Ratio	Lower	Upper
82	100		
128	41.2	32.8	49.2
54	58.8	48.3	72.5

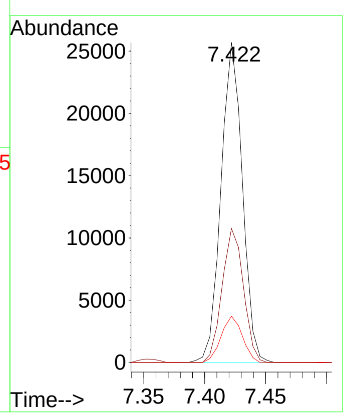




#24
Nitrobenzene
Concen: 5.183 ng
RT: 7.422 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

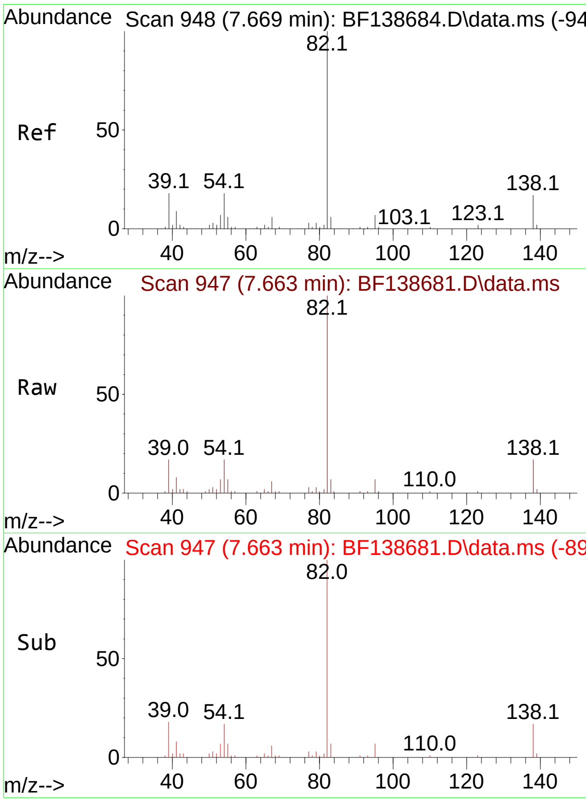
Tgt Ion: 77 Resp: 31388

Ion	Ratio	Lower	Upper
77	100		
123	41.8	33.3	49.9
65	14.5	11.9	17.9



ICAL Form

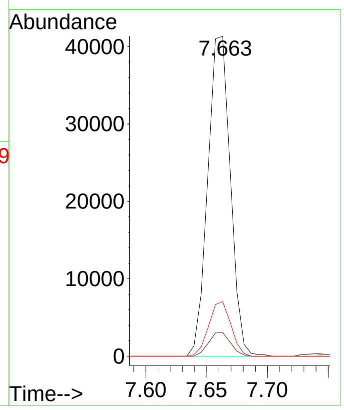
Instrument : BNA_F
ClientSampleId : SSTDICC005

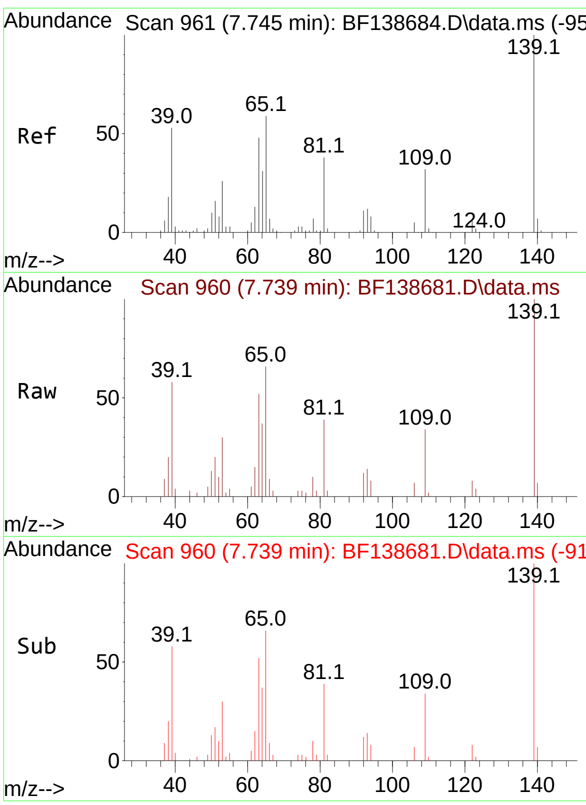


#25
Isophorone
Concen: 5.260 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 82 Resp: 53456

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.7	8.5
138	17.1	13.7	20.5

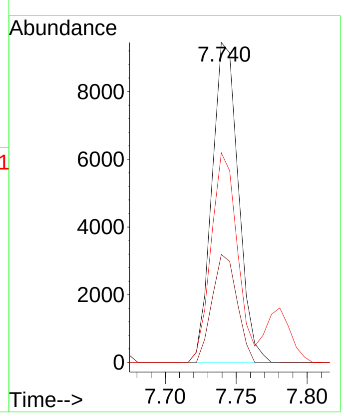




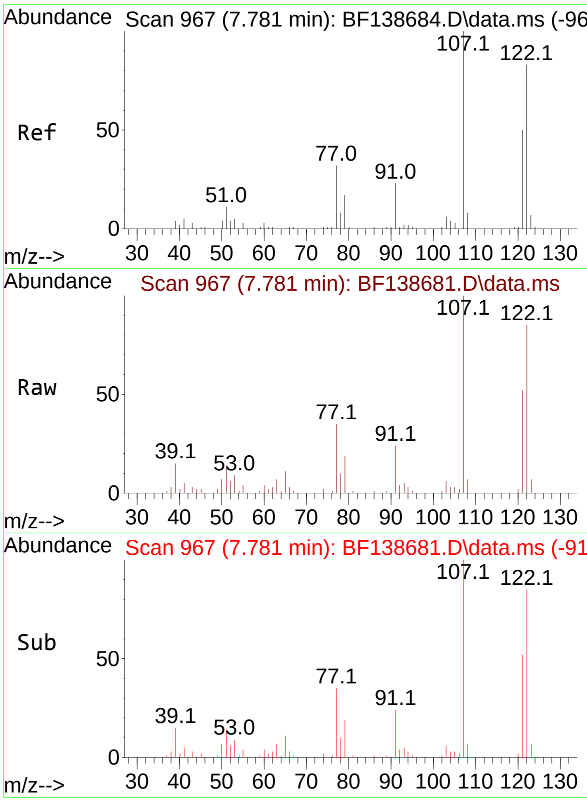
#26
2-Nitrophenol
Concen: 4.708 ng
RT: 7.739 min Scan# 960
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:139 Resp: 12268

Ion	Ratio	Lower	Upper
139	100		
109	33.8	25.9	38.9
65	65.5	47.0	70.6



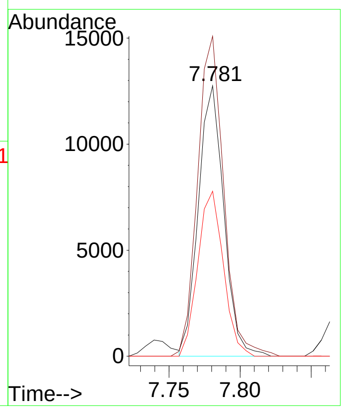
Instrument : BNA_F
ClientSampleId : SSTDICC005

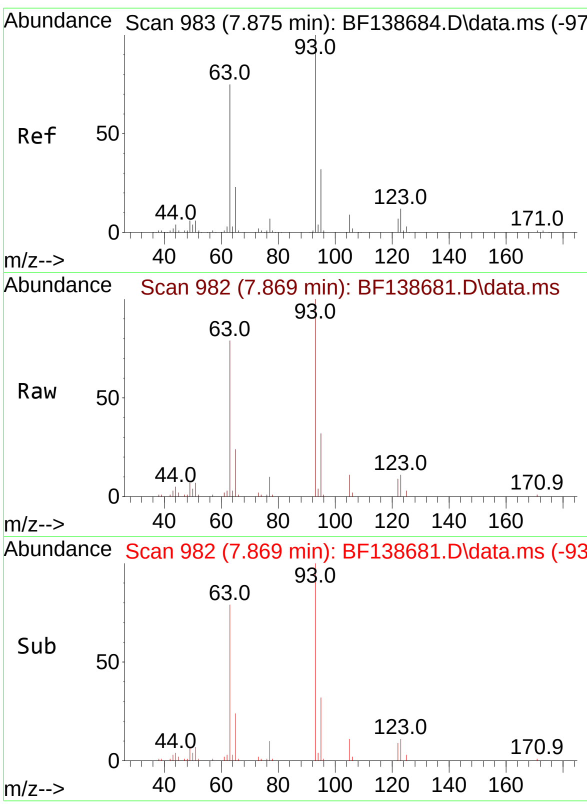


#27
2,4-Dimethylphenol
Concen: 5.102 ng
RT: 7.781 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:122 Resp: 15906

Ion	Ratio	Lower	Upper
122	100		
107	118.3	95.0	142.6
121	61.0	47.3	70.9

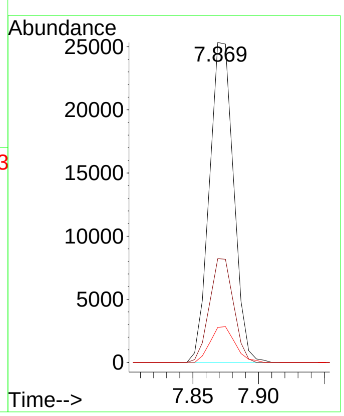




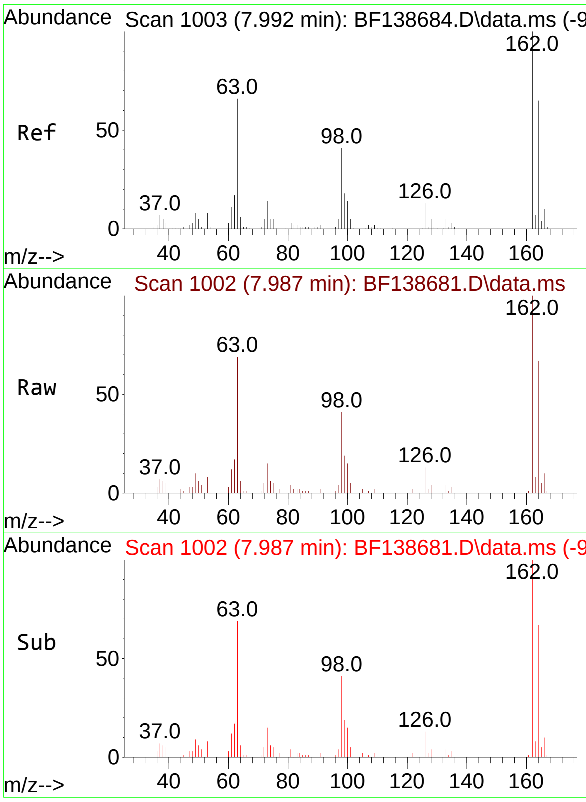
#28
bis(2-Chloroethoxy)methane
Concen: 5.263 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 93 Resp: 32570

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.8
123	10.9	9.4	14.0



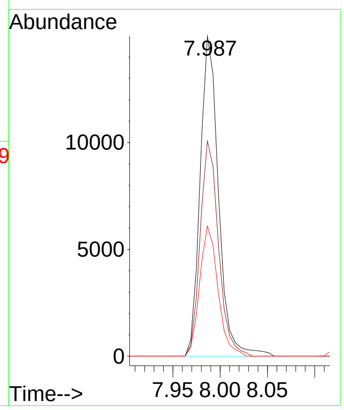
Instrument : BNA_F
ClientSampleId : SSTDICC005

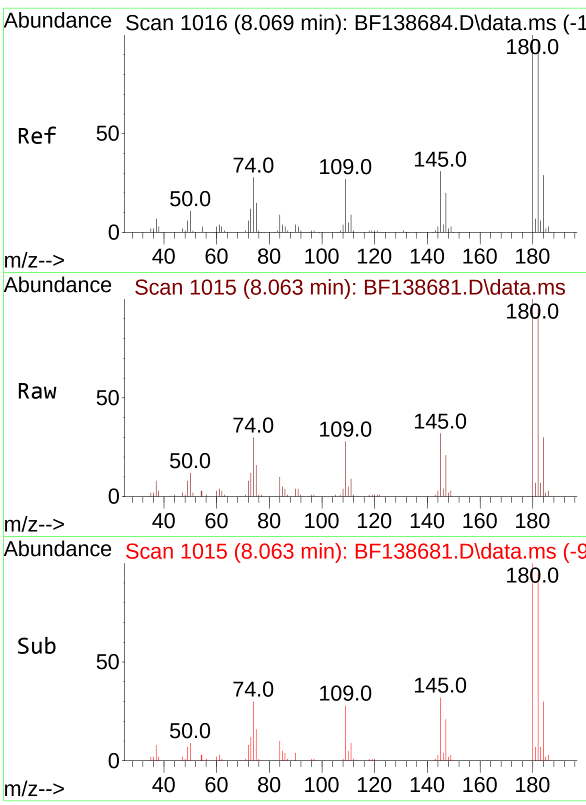


#29
2,4-Dichlorophenol
Concen: 5.058 ng
RT: 7.987 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:162 Resp: 20263

Ion	Ratio	Lower	Upper
162	100		
164	67.2	44.7	84.7
98	40.7	20.8	60.8

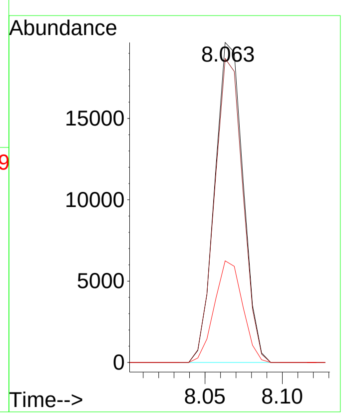




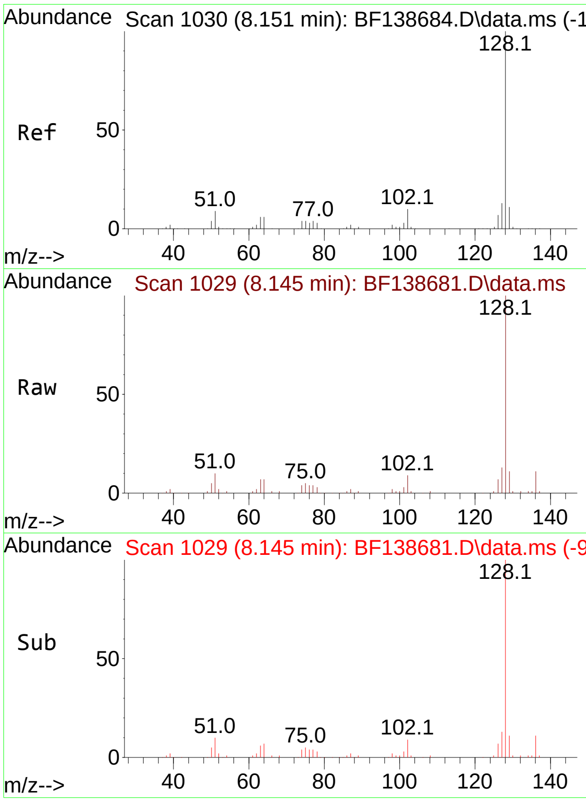
#30
1,2,4-Trichlorobenzene
Concen: 5.414 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:180 Resp: 25030

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.9	115.3
145	31.7	25.0	37.4



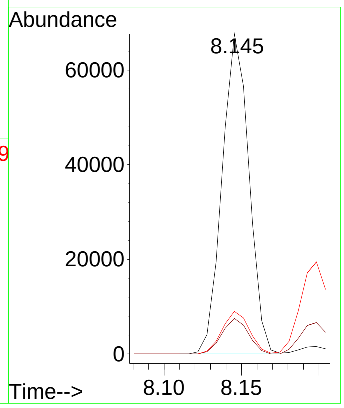
Instrument : BNA_F
ClientSampleId : SSTDICC005

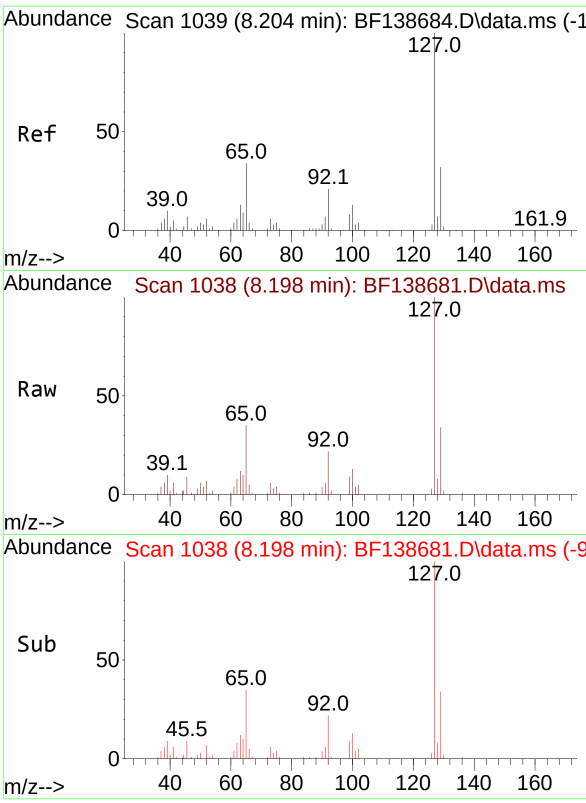


#31
Naphthalene
Concen: 5.338 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:128 Resp: 81757

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.3	10.6	16.0

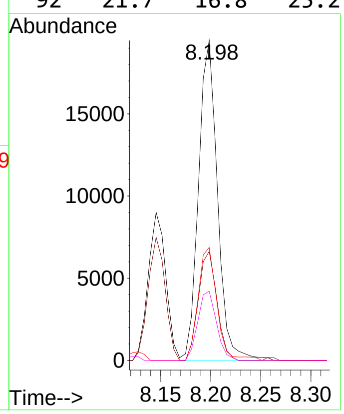




#33
4-Chloroaniline
Concen: 5.009 ng
RT: 8.198 min Scan# 1038
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

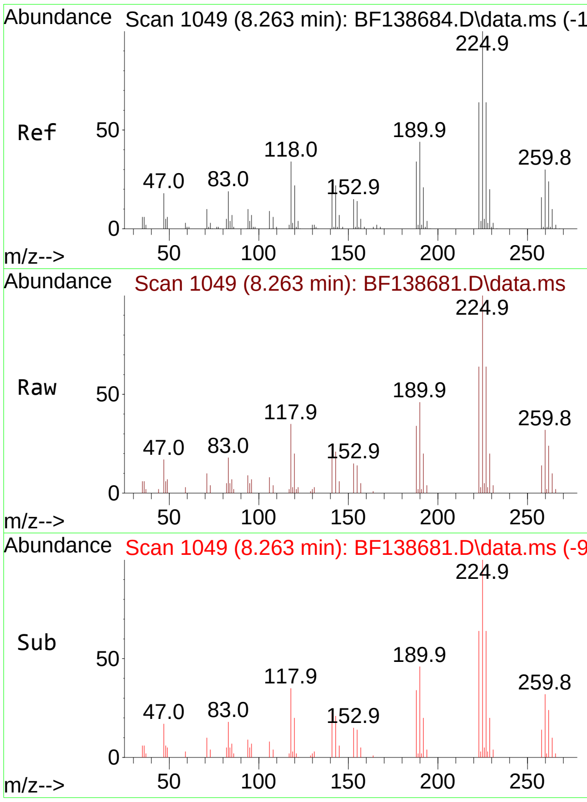
Tgt Ion:127 Resp: 25753

Ion	Ratio	Lower	Upper
127	100		
129	34.1	25.9	38.9
65	35.4	27.6	41.4
92	21.7	16.8	25.2



ICAL Form

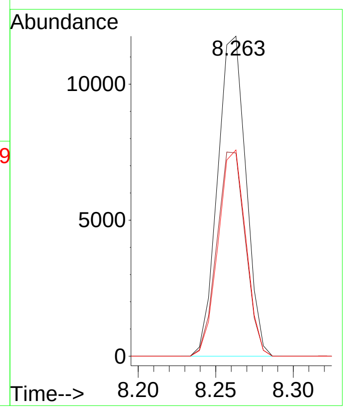
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

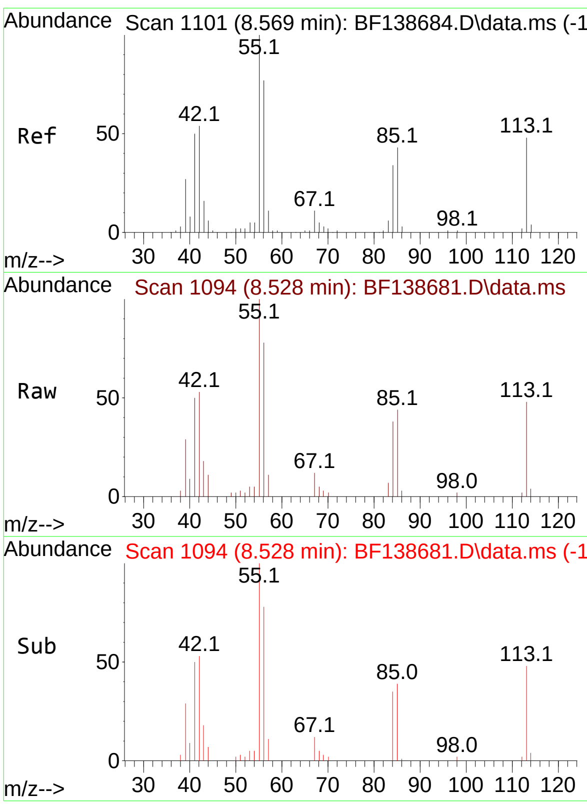


#34
Hexachlorobutadiene
Concen: 5.337 ng
RT: 8.263 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:225 Resp: 14945

Ion	Ratio	Lower	Upper
225	100		
223	63.5	51.2	76.8
227	64.4	51.1	76.7

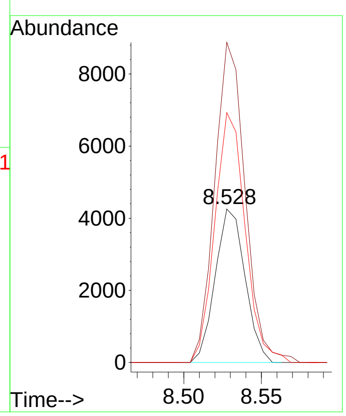




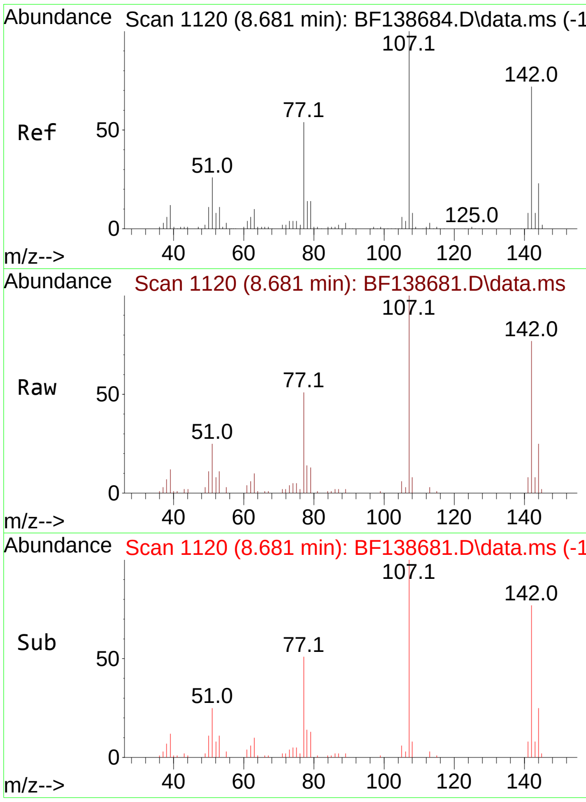
#35
Caprolactam
Concen: 4.763 ng
RT: 8.528 min Scan# 1094
Delta R.T. -0.041 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:113 Resp: 5694

Ion	Ratio	Lower	Upper
113	100		
55	208.6	186.7	226.7
56	162.7	138.9	178.9



ICAL Form

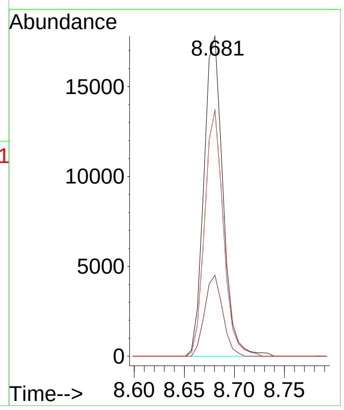


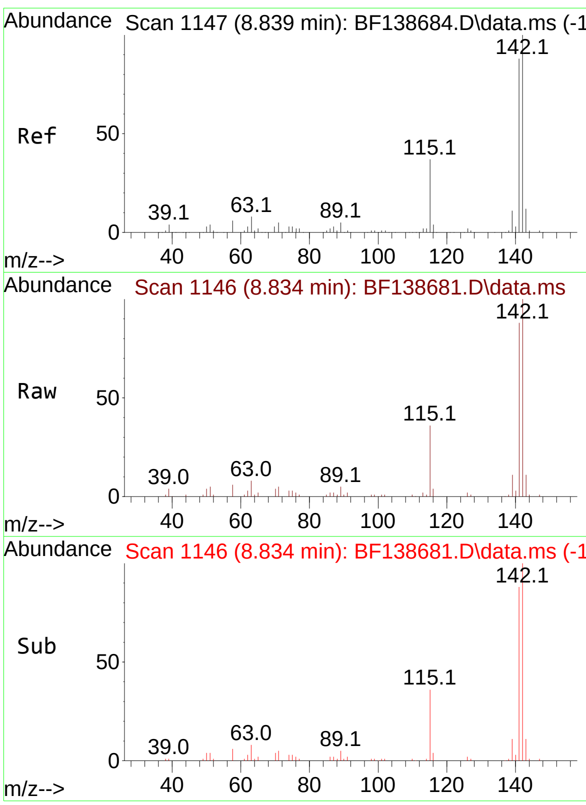
#36
4-Chloro-3-methylphenol
Concen: 5.173 ng
RT: 8.681 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 23684

Ion	Ratio	Lower	Upper
107	100		
144	25.3	18.2	27.2
142	76.9	57.4	86.2

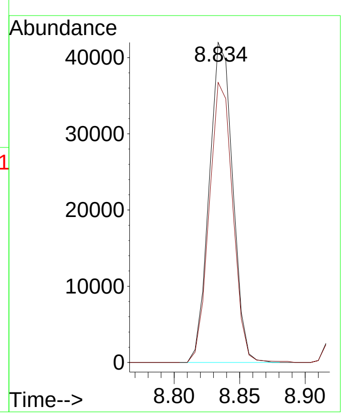




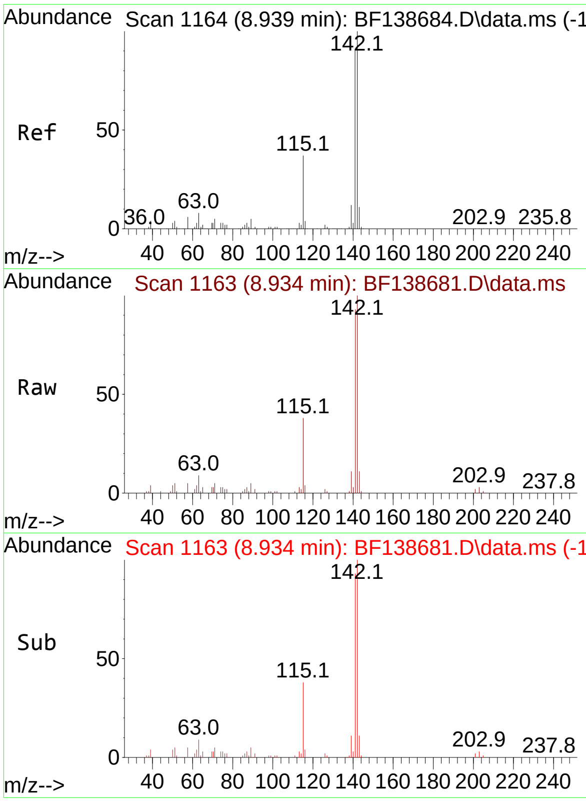
#37
2-Methylnaphthalene
Concen: 5.439 ng
RT: 8.834 min Scan# 1146
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:142 Resp: 52614

Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.8	106.2



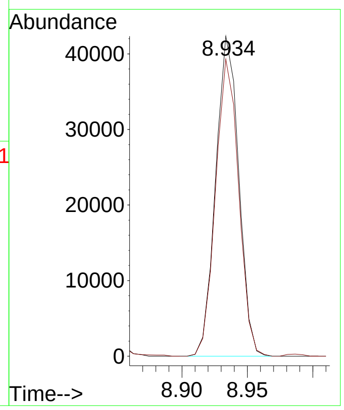
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

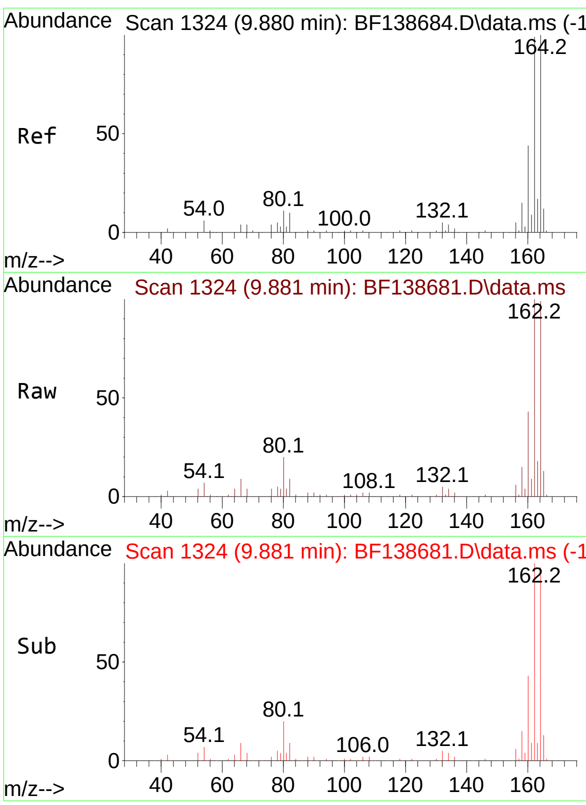


#38
1-Methylnaphthalene
Concen: 5.470 ng
RT: 8.934 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:142 Resp: 51855

Ion	Ratio	Lower	Upper
142	100		
141	92.8	73.1	109.7

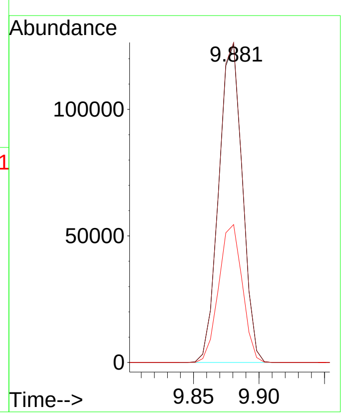




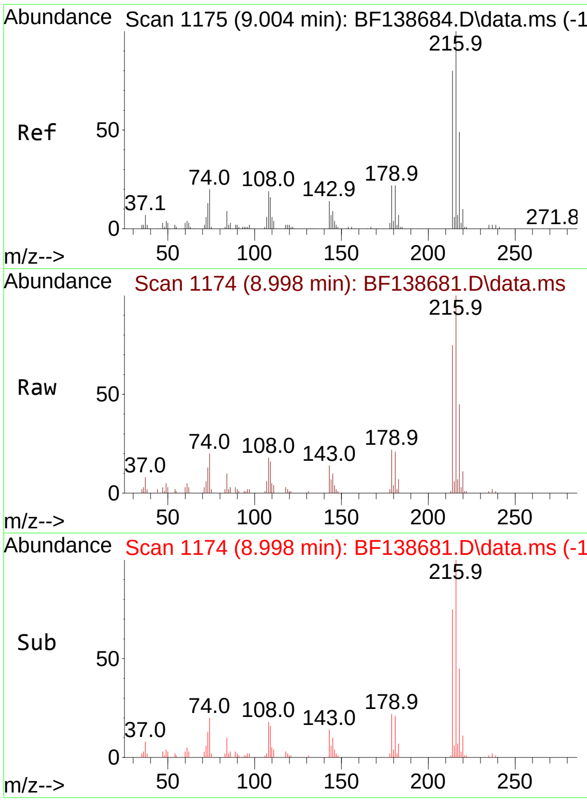
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1324
Delta R.T. 0.001 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:164 Resp: 157274

Ion	Ratio	Lower	Upper
164	100		
162	100.7	79.4	119.0
160	43.4	35.1	52.7



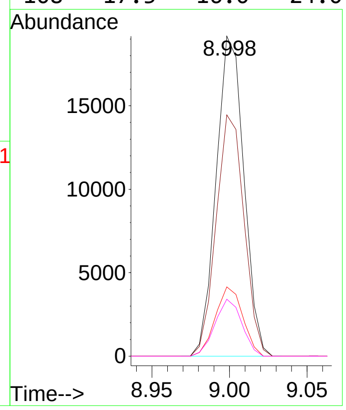
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

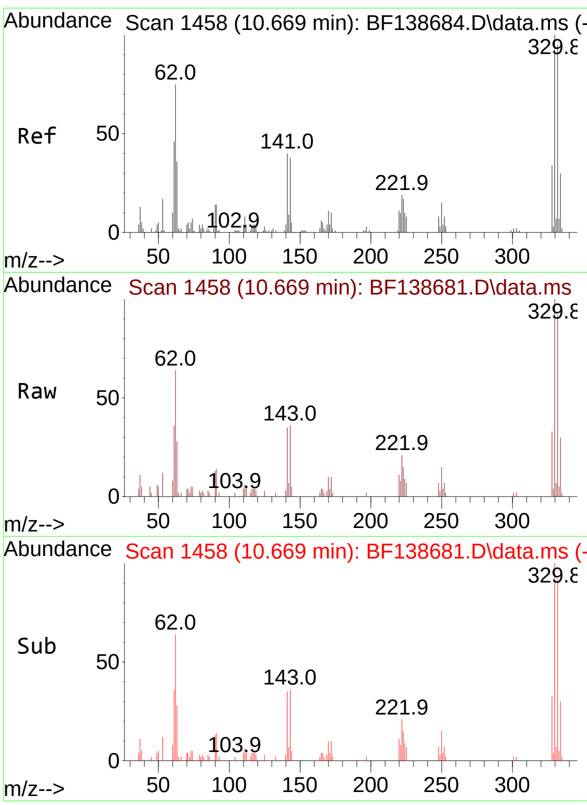


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.456 ng
RT: 8.998 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:216 Resp: 23837

Ion	Ratio	Lower	Upper
216	100		
214	76.1	63.9	95.9
179	21.4	17.8	26.6
108	17.3	16.0	24.0

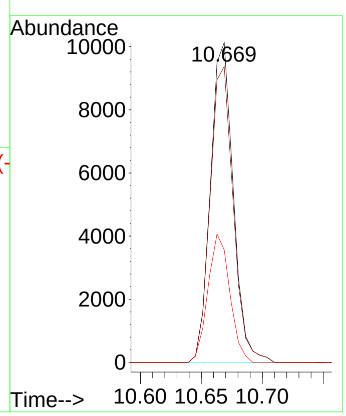




#42
2,4,6-Tribromophenol
Concen: 10.260 ng
RT: 10.669 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

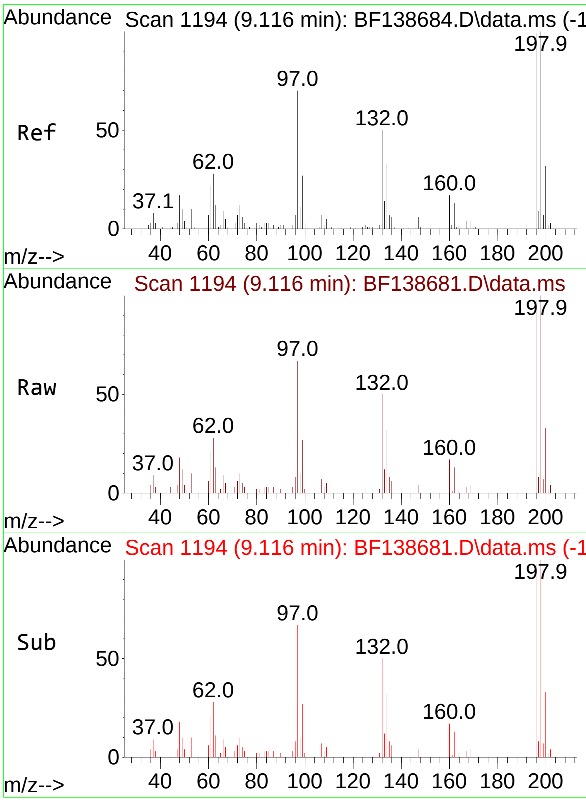
Tgt Ion:330 Resp: 13218

Ion	Ratio	Lower	Upper
330	100		
332	93.9	76.4	114.6
141	38.6	31.1	46.7



ICAL Form

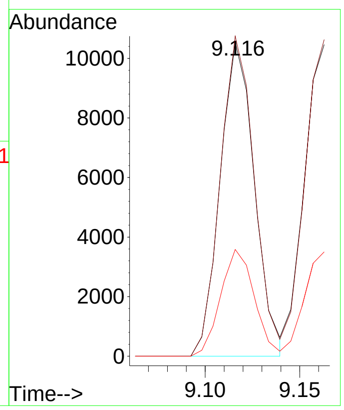
Instrument : BNA_F
ClientSampleId : SSTDICC005

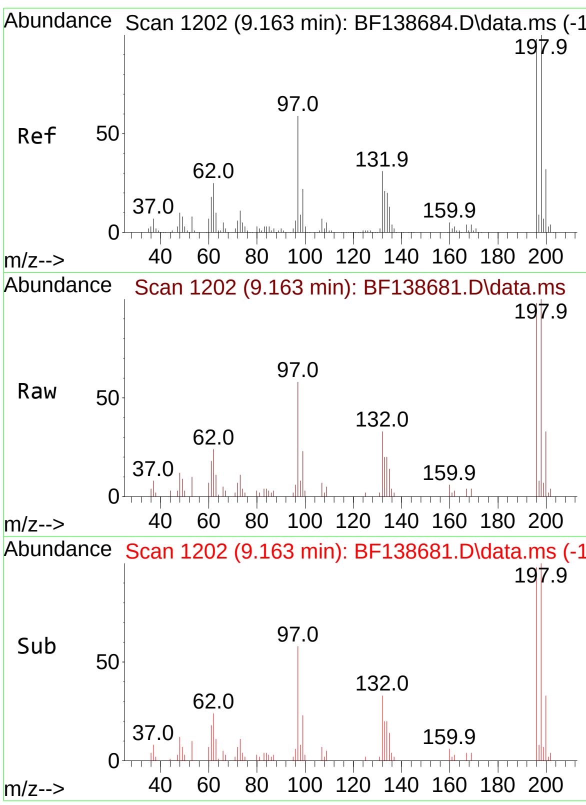


#43
2,4,6-Trichlorophenol
Concen: 4.994 ng
RT: 9.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:196 Resp: 13303

Ion	Ratio	Lower	Upper
196	100		
198	101.8	80.5	120.7
200	34.0	25.9	38.9

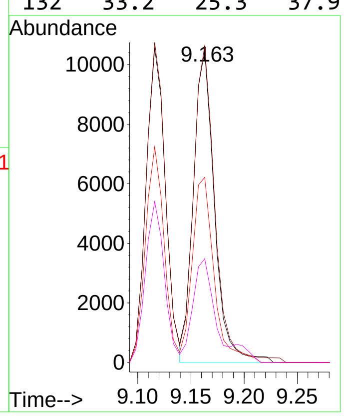




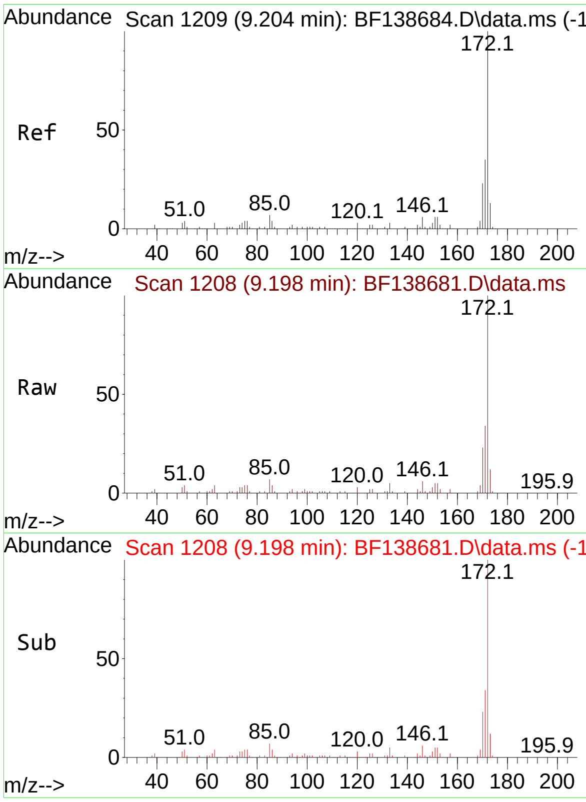
#44
2,4,5-Trichlorophenol
Concen: 4.972 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:196 Resp: 14479

Ion	Ratio	Lower	Upper
196	100		
198	101.6	81.2	121.8
97	59.4	47.8	71.6
132	33.2	25.3	37.9



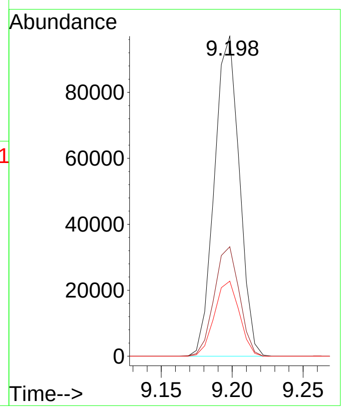
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

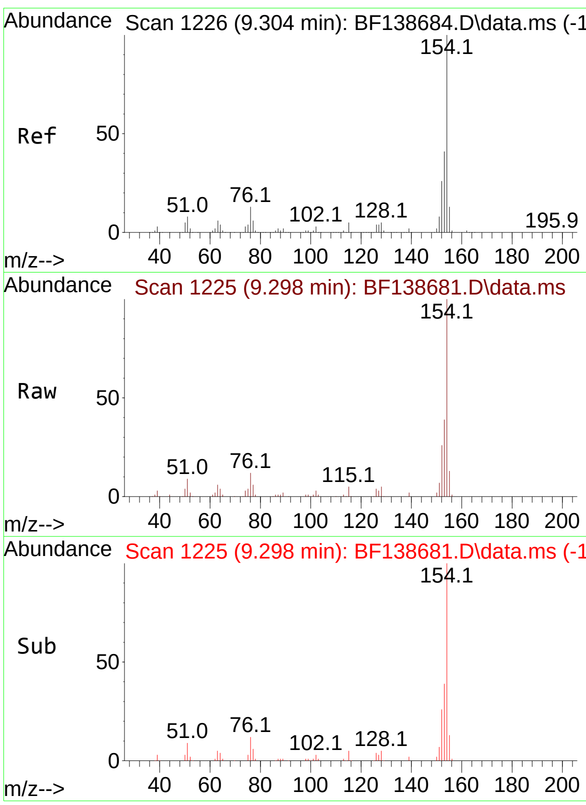


#45
2-Fluorobiphenyl
Concen: 11.357 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:172 Resp: 118878

Ion	Ratio	Lower	Upper
172	100		
171	34.2	28.3	42.5
170	23.5	18.8	28.2

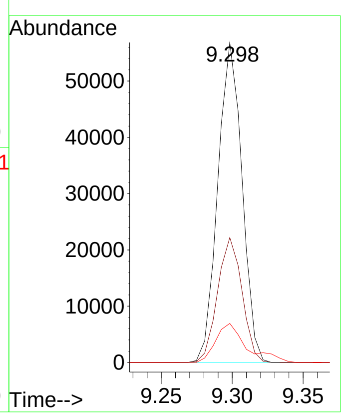




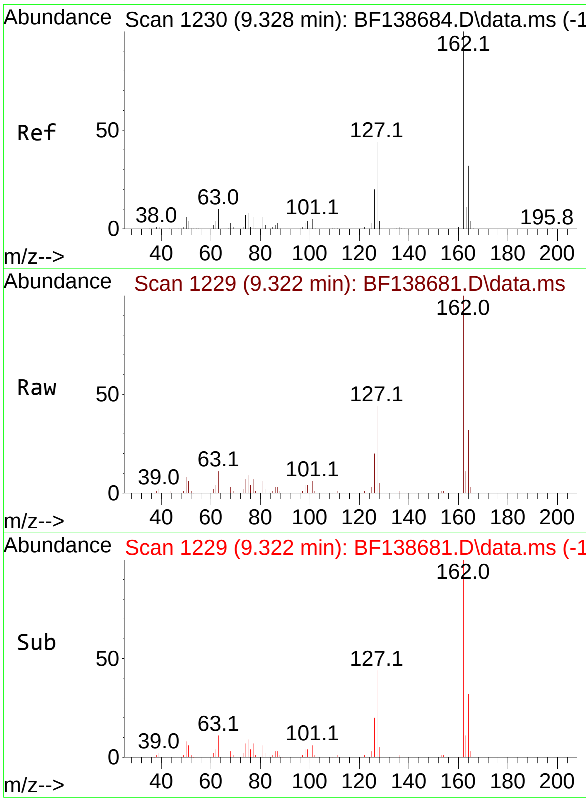
#46
1,1'-Biphenyl
Concen: 5.471 ng
RT: 9.298 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:154 Resp: 67394

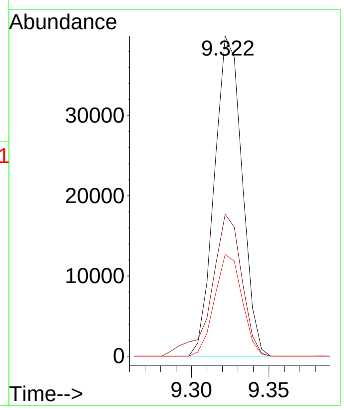
Ion	Ratio	Lower	Upper
154	100		
153	39.1	20.8	60.8
76	12.2	0.0	32.8

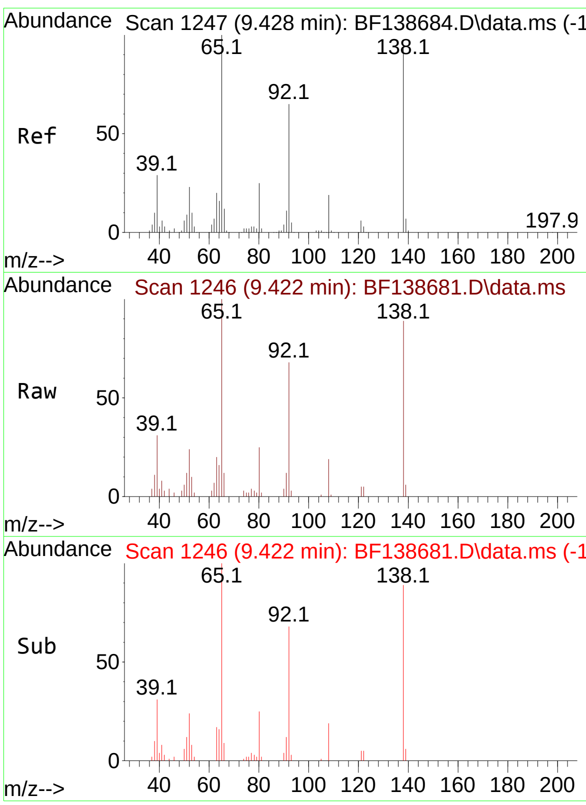


Instrument : BNA_F
ClientSampleId : SSTDICC005

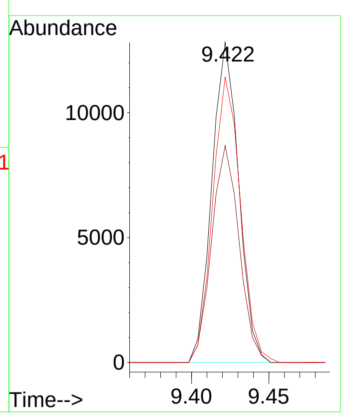



```
#47
2-Chloronaphthalene
Concen:    5.421 ng
RT:   9.322 min  Scan# 1
Delta R.T.   -0.006 min
Lab File:    BF138681.D
Acq: 30 Jul 2024  13:25

Tgt Ion:162 Resp:   49660
Ion  Ratio  Lower  Upper
162  100
127   44.3   35.4   53.2
164   31.8   25.6   38.4
```

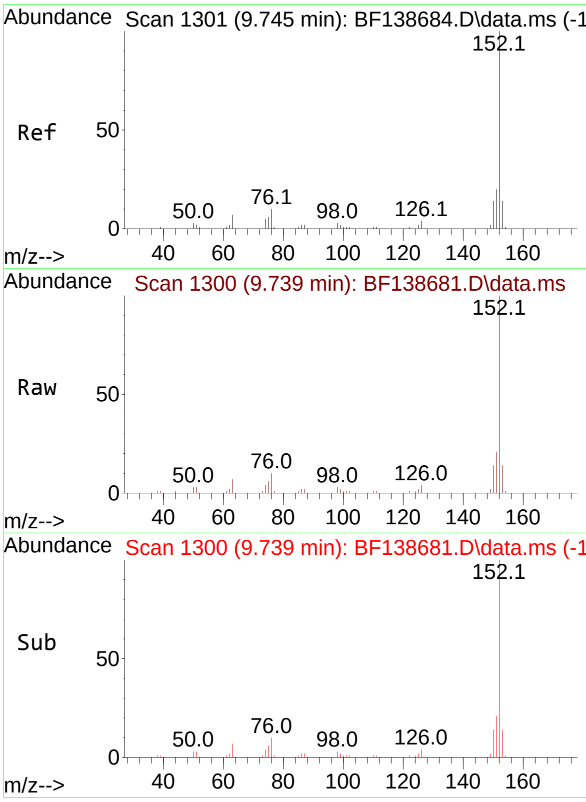





```
#48
2-Nitroaniline
Concen:    4.982 ng
RT:   9.422 min  Scan# 1246
Delta R.T.   -0.006 min
Lab File:    BF138681.D
Acq: 30 Jul 2024  13:25

Tgt Ion: 65 Resp:   15473
Ion  Ratio  Lower  Upper
 65  100
 92   67.8   52.0   78.0
138   89.1   76.2  114.4
```



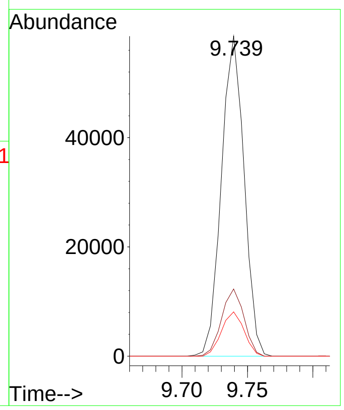
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

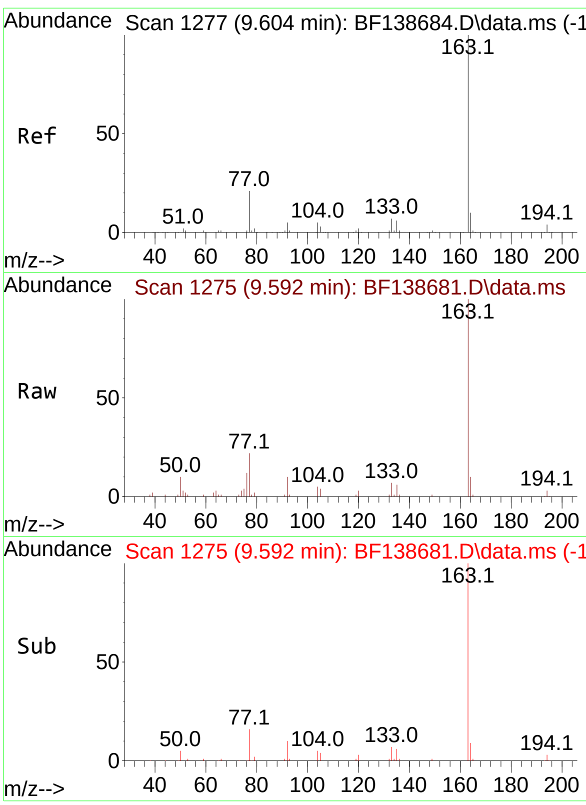


#49
Acenaphthylene
Concen: 5.435 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:152 Resp: 70622

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.0	24.0
153	13.9	11.0	16.4

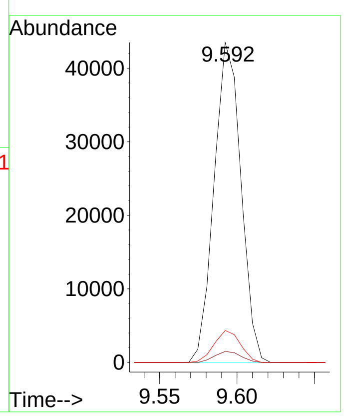




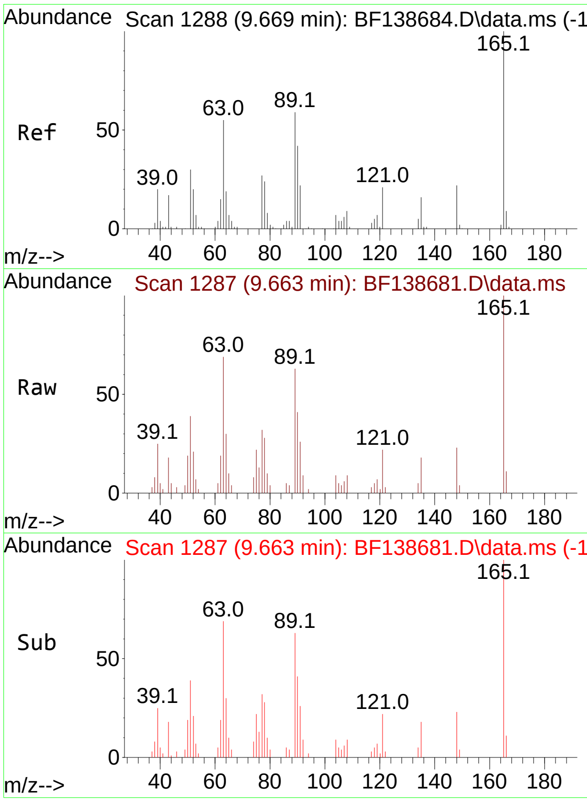
#50
Dimethylphthalate
Concen: 5.223 ng
RT: 9.592 min Scan# 1275
Delta R.T. -0.012 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:163 Resp: 52521

Ion	Ratio	Lower	Upper
163	100		
194	3.4	3.1	4.7
164	10.0	7.8	11.8



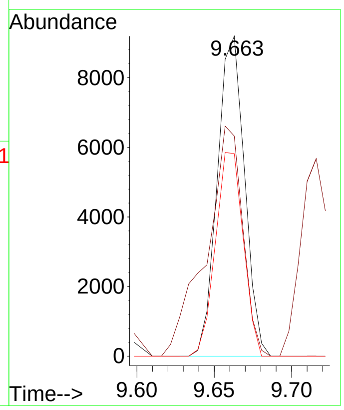
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

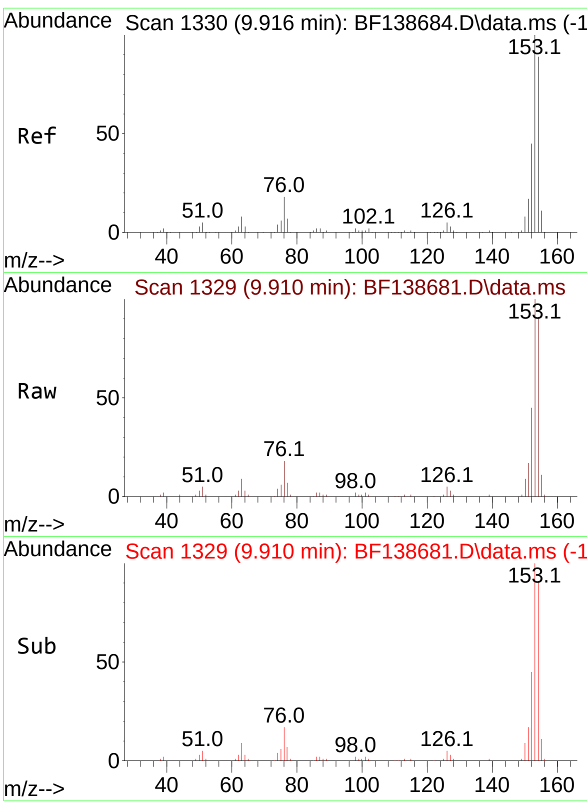


#51
2,6-Dinitrotoluene
Concen: 4.963 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:165 Resp: 11264

Ion	Ratio	Lower	Upper
165	100		
63	68.8	52.0	78.0
89	63.3	47.0	70.6

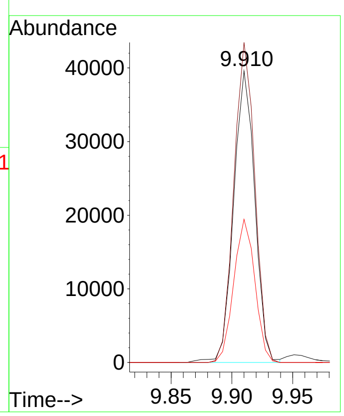




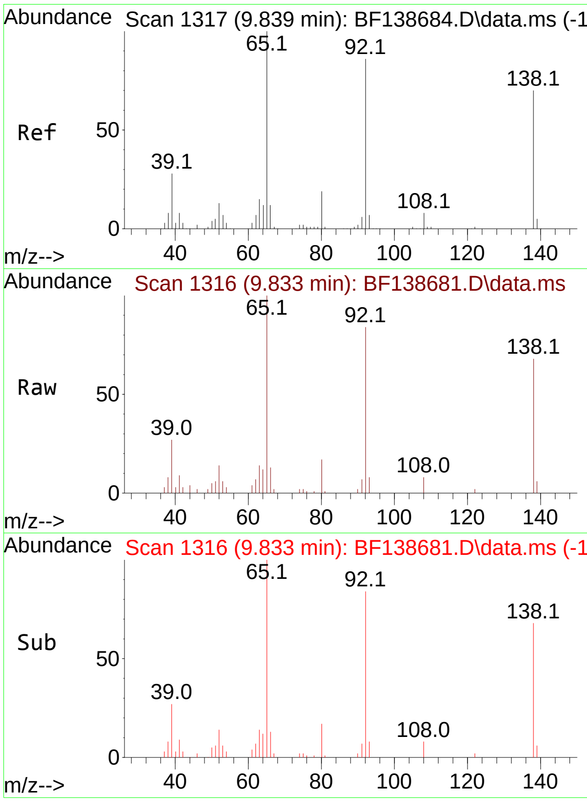
#52
Acenaphthene
Concen: 5.480 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:154 Resp: 47866

Ion	Ratio	Lower	Upper
154	100		
153	109.8	89.9	134.9
152	49.1	40.6	60.8



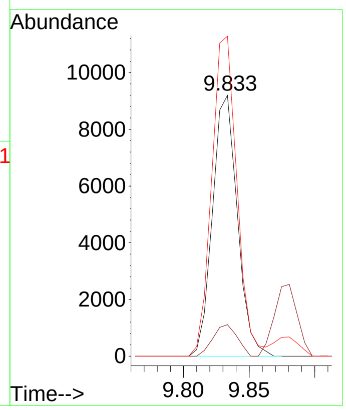
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

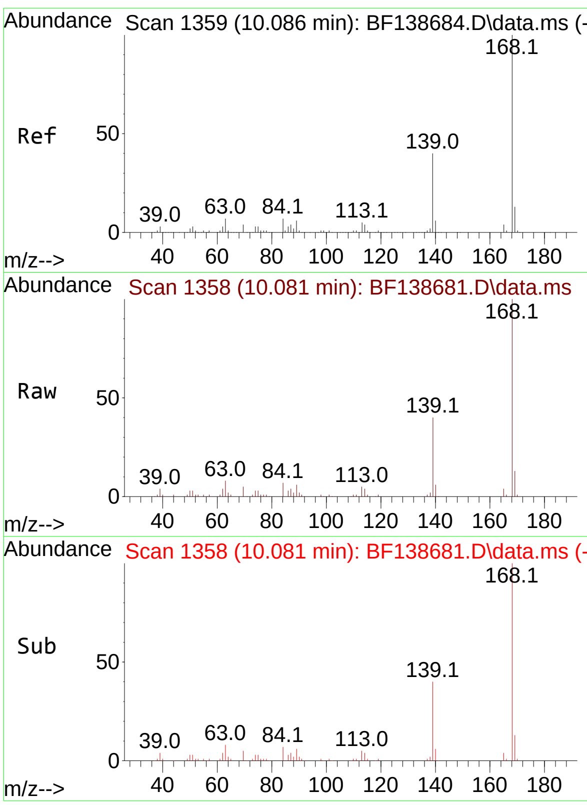


#53
3-Nitroaniline
Concen: 5.167 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:138 Resp: 12123

Ion	Ratio	Lower	Upper
138	100		
108	12.1	9.1	13.7
92	122.7	98.7	148.1

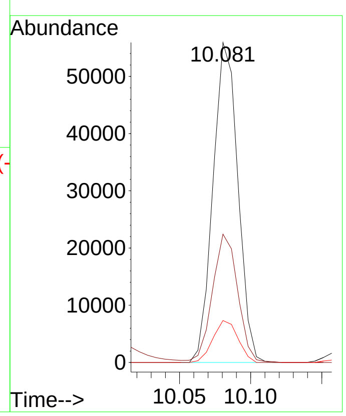




#55
Dibenzofuran
Concen: 5.515 ng
RT: 10.081 min Scan# 1358
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

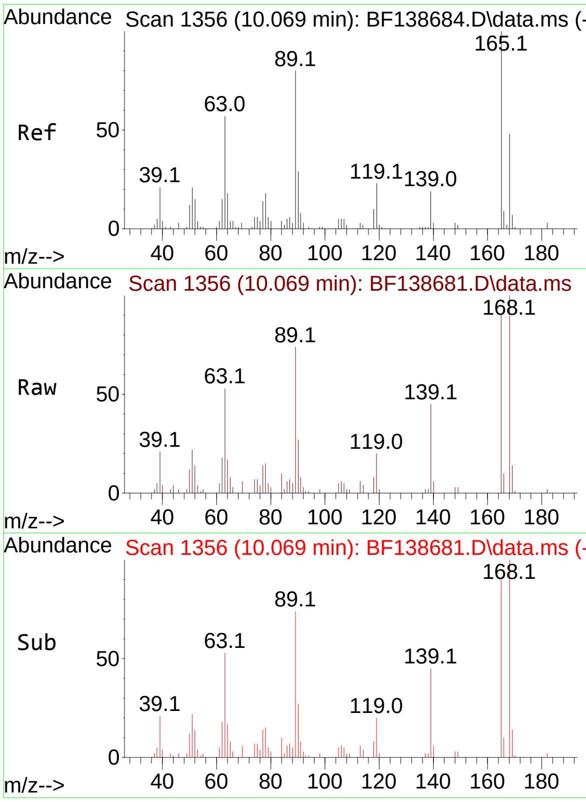
Tgt Ion:168 Resp: 67994

Ion	Ratio	Lower	Upper
168	100		
139	40.1	32.6	49.0
169	13.1	10.7	16.1



ICAL Form

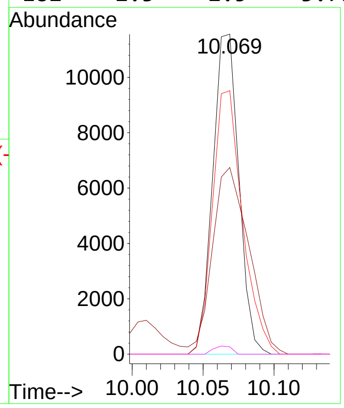
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

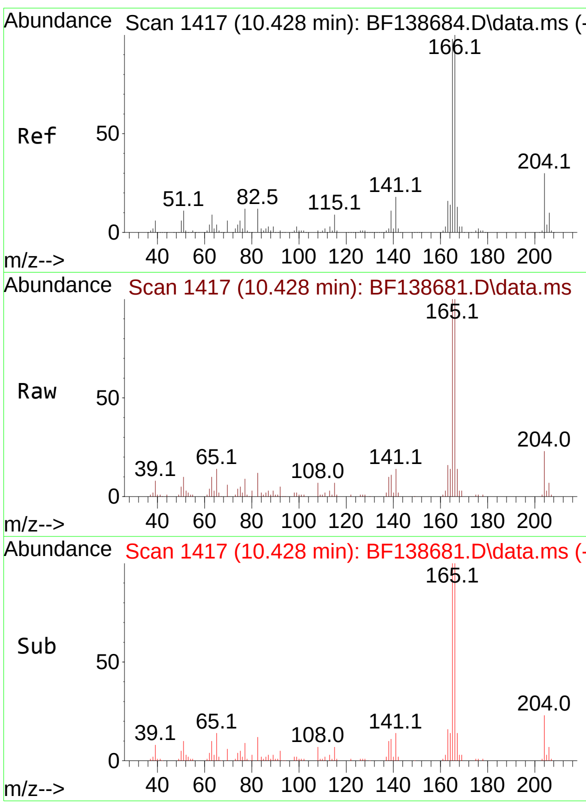


#57
2,4-Dinitrotoluene
Concen: 5.117 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:165 Resp: 14816

Ion	Ratio	Lower	Upper
165	100		
63	58.4	46.3	69.5
89	82.4	64.2	96.4
182	2.3	2.5	3.7#

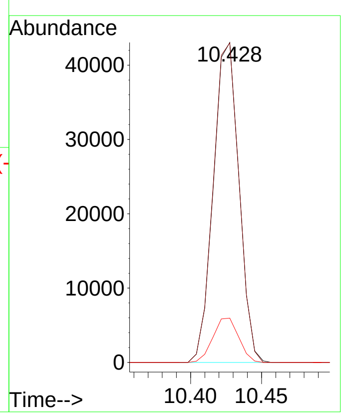




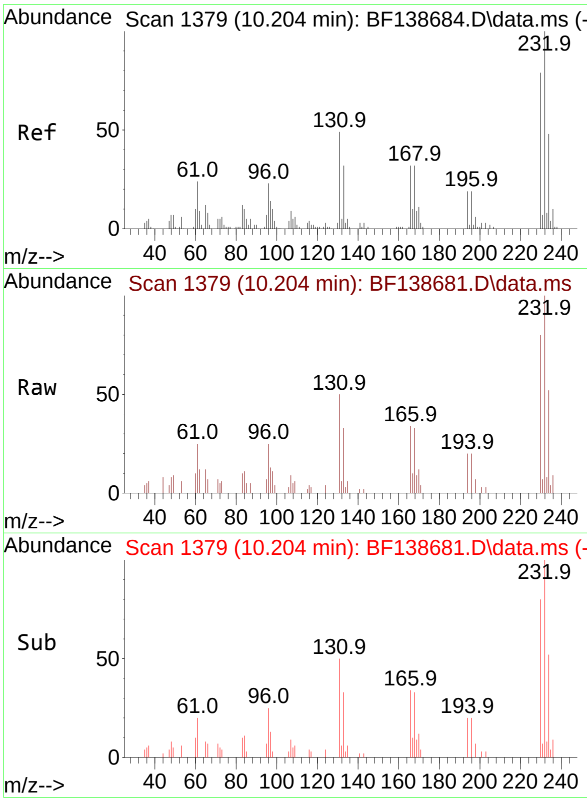
#58
Fluorene
Concen: 5.504 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:166 Resp: 54036

Ion	Ratio	Lower	Upper
166	100		
165	99.9	78.4	117.6
167	13.8	10.6	16.0



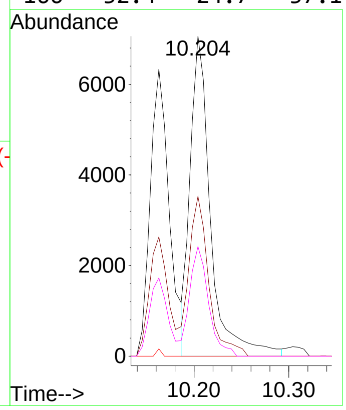
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

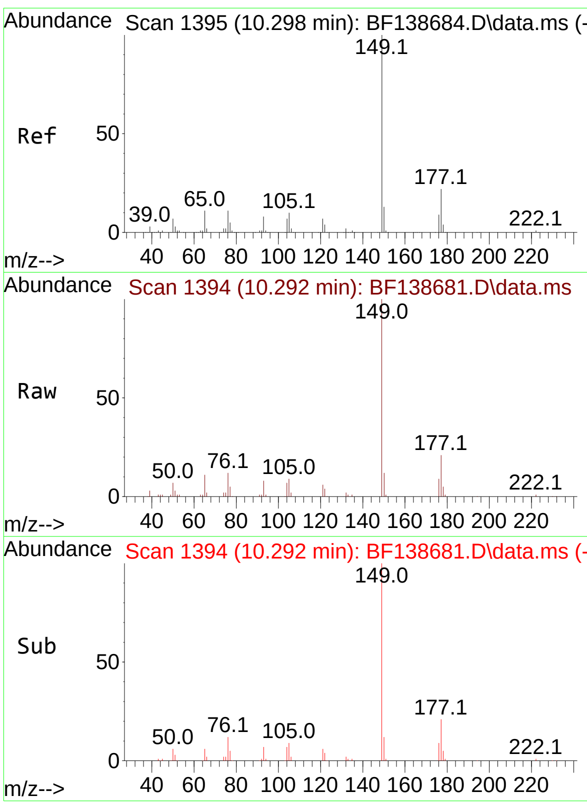


#59
2,3,4,6-Tetrachlorophenol
Concen: 4.765 ng
RT: 10.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:232 Resp: 10608

Ion	Ratio	Lower	Upper
232	100		
131	49.5	37.0	55.4
130	0.0	2.0	3.0#
166	32.4	24.7	37.1

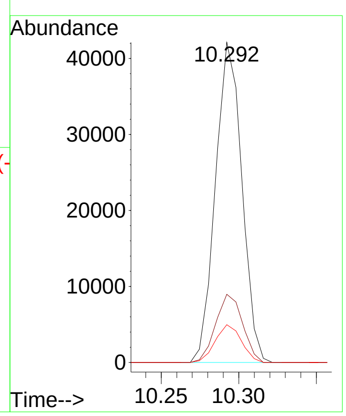




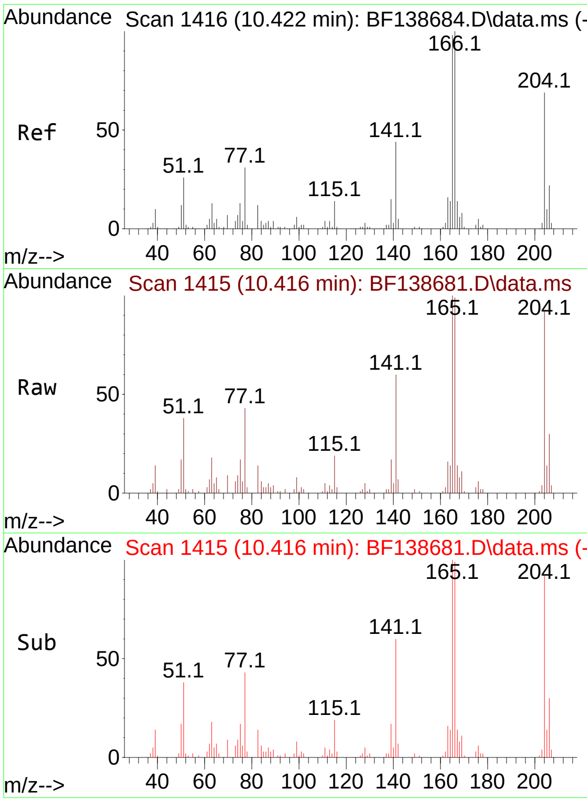
#60
Diethylphthalate
Concen: 5.228 ng
RT: 10.292 min Scan# 1394
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:149 Resp: 49851

Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.8	26.8
150	11.8	10.1	15.1



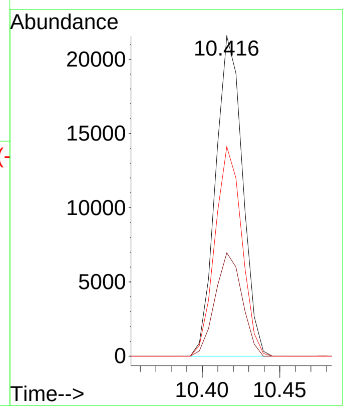
Instrument : BNA_F
ClientSampleId : SSTDICC005

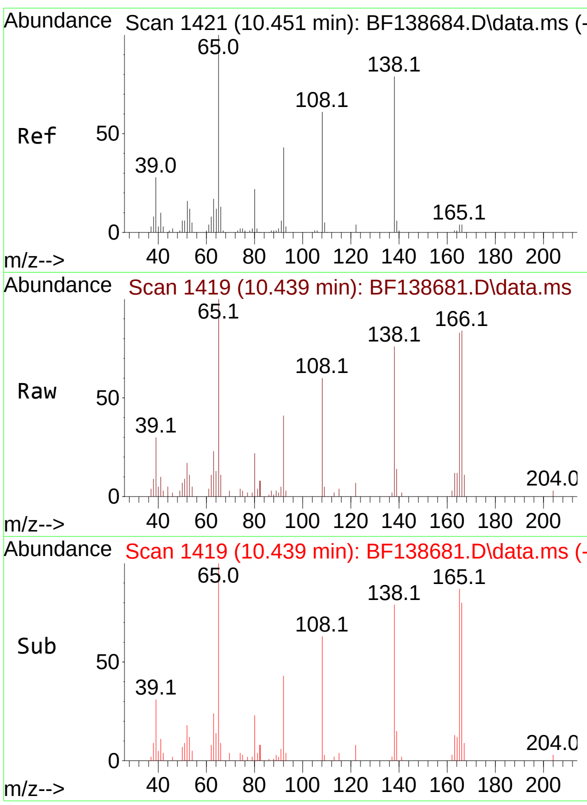


#61
4-Chlorophenyl-phenylether
Concen: 5.389 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:204 Resp: 26020

Ion	Ratio	Lower	Upper
204	100		
206	32.3	26.1	39.1
141	65.5	51.4	77.0

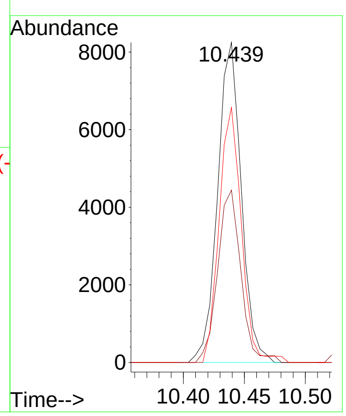




#62
4-Nitroaniline
Concen: 5.004 ng
RT: 10.439 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

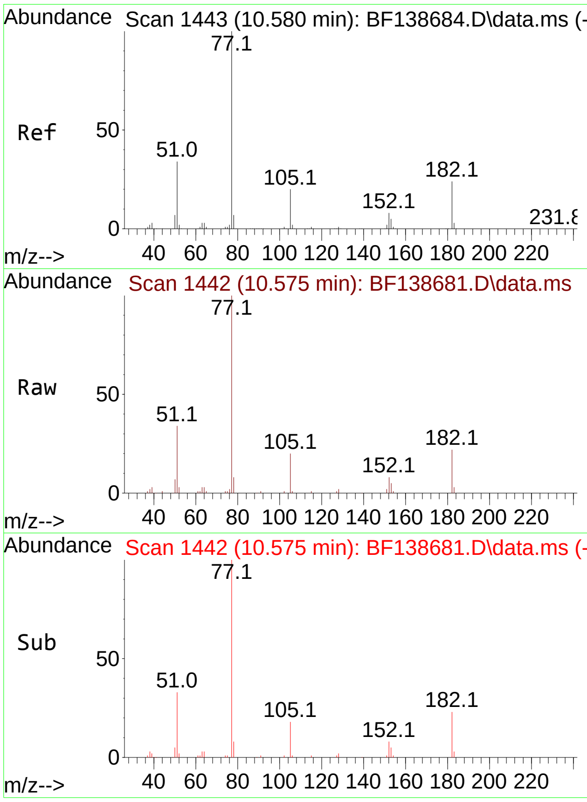
Tgt Ion:138 Resp: 11156

Ion	Ratio	Lower	Upper
138	100		
92	53.8	34.2	74.2
108	79.7	56.2	96.2



ICAL Form

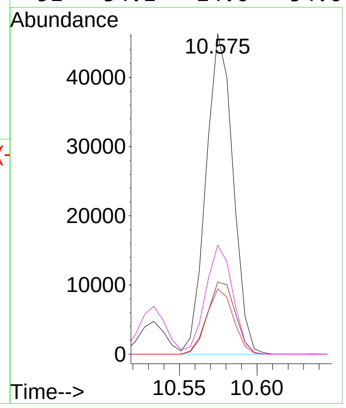
Instrument : BNA_F
ClientSampleId : SSTDICC005

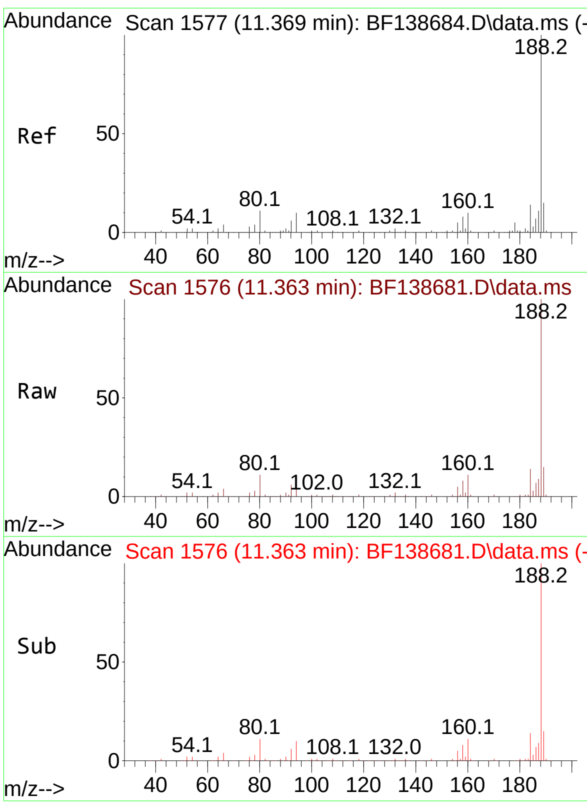


#63
Azobenzene
Concen: 5.304 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 77 Resp: 56096

Ion	Ratio	Lower	Upper
77	100		
182	22.5	3.4	43.4
105	20.4	0.2	40.2
51	34.1	14.6	54.6

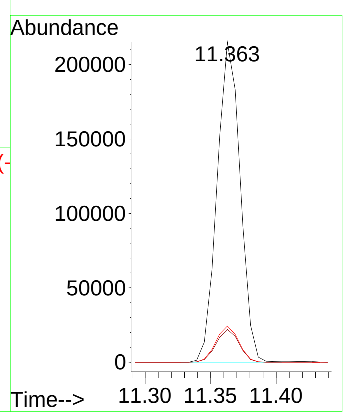




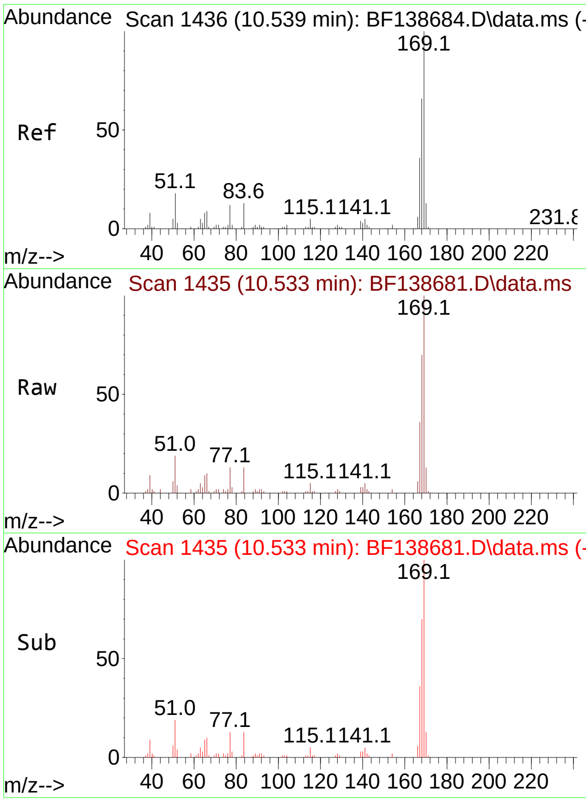
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:188 Resp: 264044

Ion	Ratio	Lower	Upper
188	100		
94	10.3	7.6	11.4
80	11.3	8.6	12.8



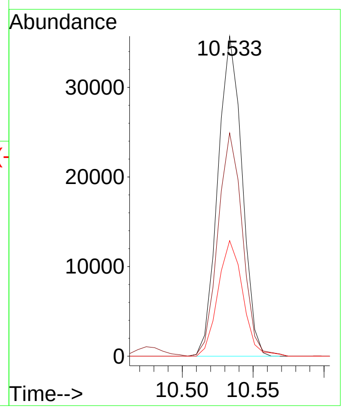
Instrument : BNA_F
ClientSampleId : SSTDICC005

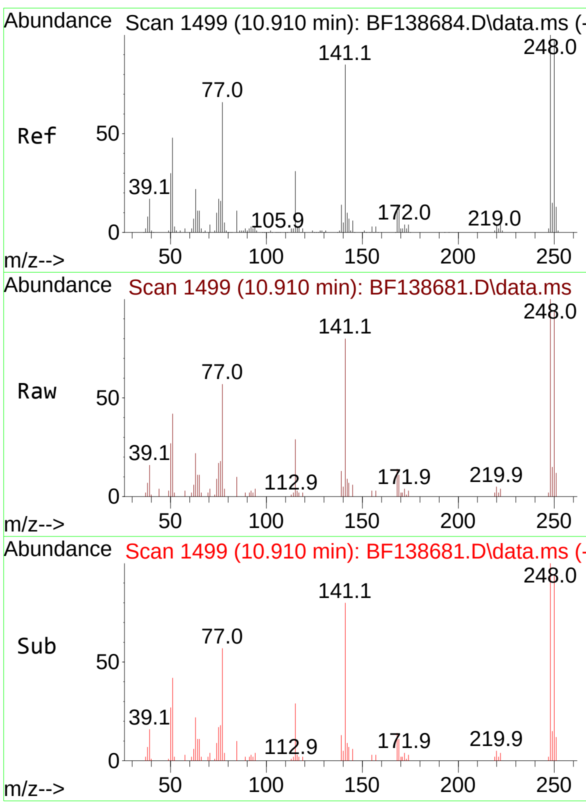


#66
n-Nitrosodiphenylamine
Concen: 5.138 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:169 Resp: 42403

Ion	Ratio	Lower	Upper
169	100		
168	69.7	53.0	79.6
167	36.1	29.0	43.6

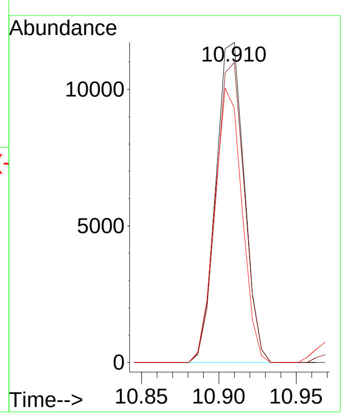




#67
4-Bromophenyl-phenylether
Concen: 5.246 ng
RT: 10.910 min Scan# 1499
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

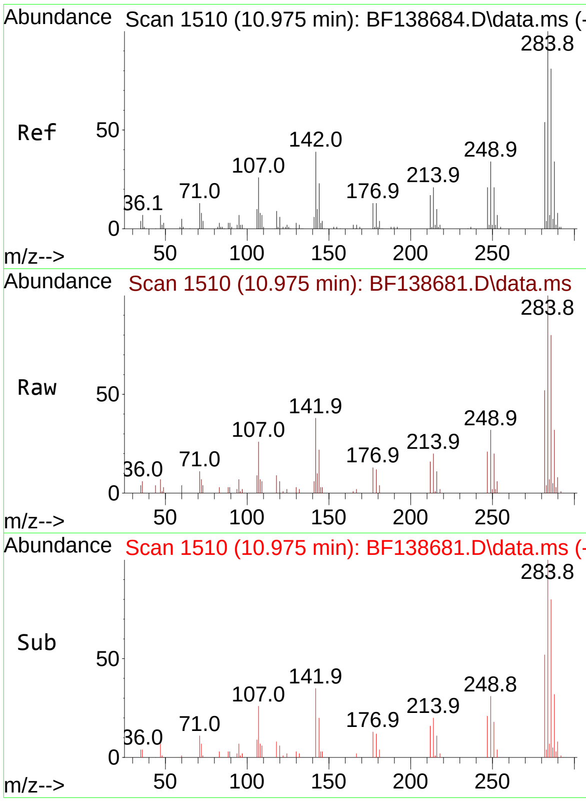
Tgt Ion:248 Resp: 14996

Ion	Ratio	Lower	Upper
248	100		
250	93.7	77.7	116.5
141	79.6	68.0	102.0



ICAL Form

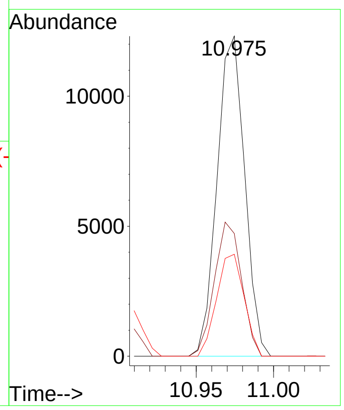
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

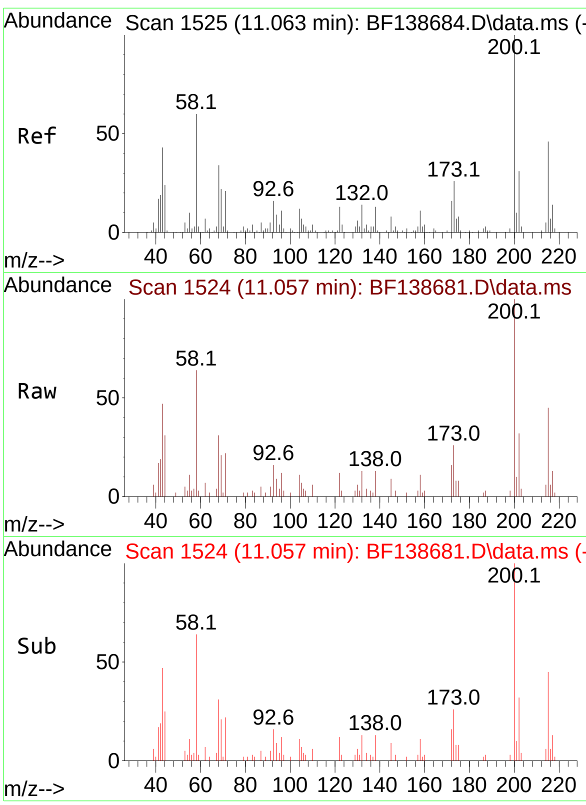


#68
Hexachlorobenzene
Concen: 5.173 ng
RT: 10.975 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:284 Resp: 15270

Ion	Ratio	Lower	Upper
284	100		
142	38.4	31.3	46.9
249	31.8	27.2	40.8

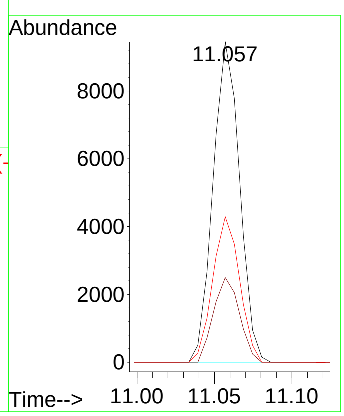




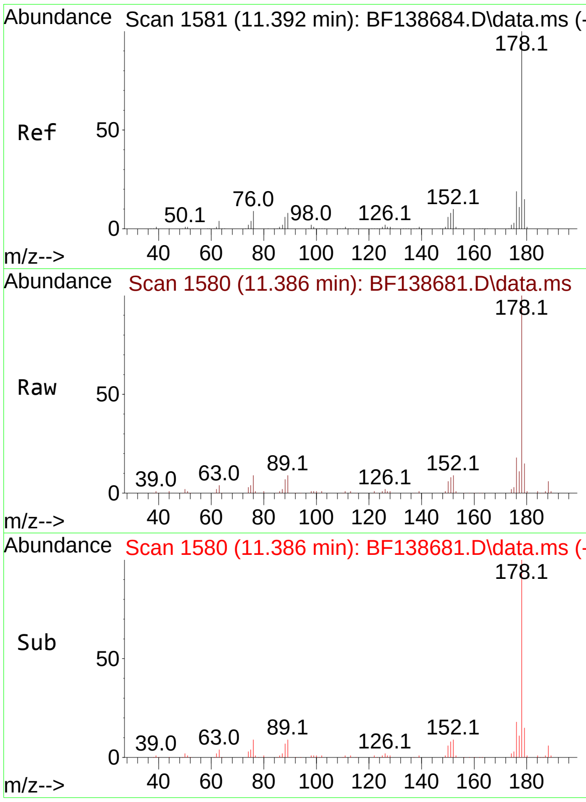
#69
Atrazine
Concen: 5.286 ng
RT: 11.057 min Scan# 1524
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:200 Resp: 11256

Ion	Ratio	Lower	Upper
200	100		
173	26.4	6.0	46.0
215	45.4	26.1	66.1



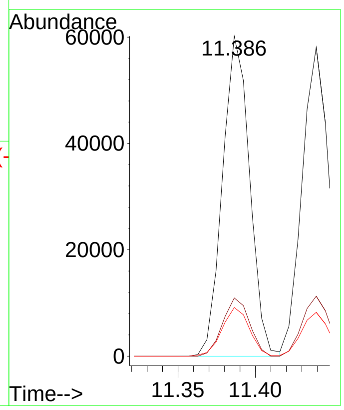
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

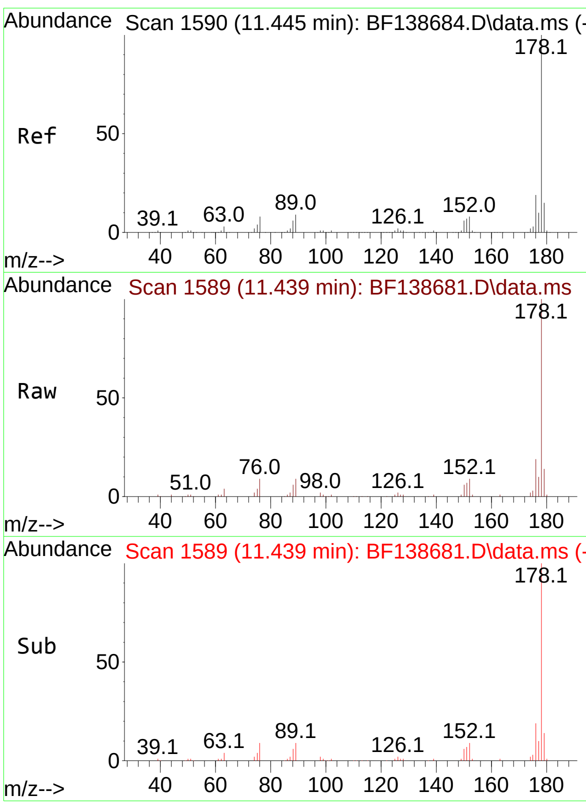


#71
Phenanthrene
Concen: 5.401 ng
RT: 11.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:178 Resp: 73432

Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.4	23.0
179	15.2	12.2	18.2

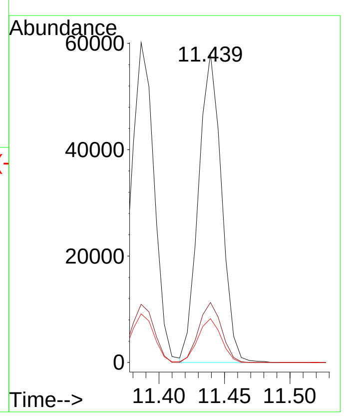


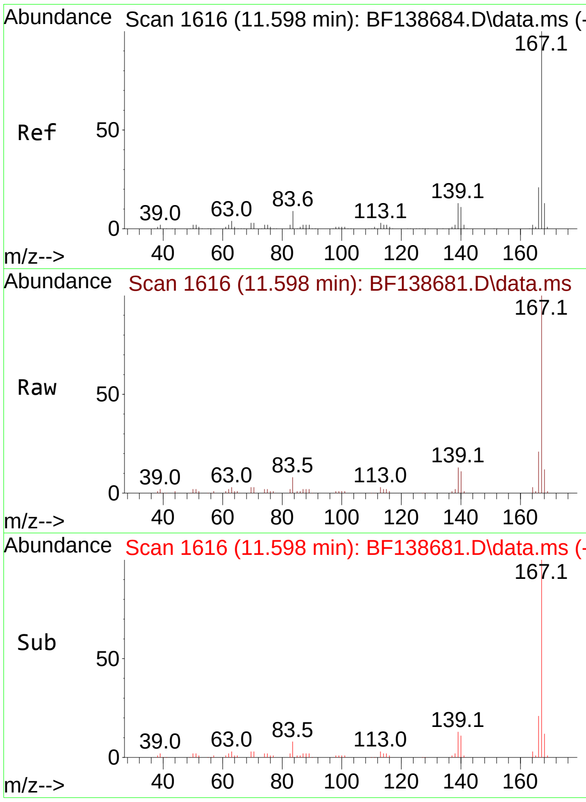


#72
Anthracene
Concen: 5.332 ng
RT: 11.439 min Scan# 1589
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:178 Resp: 71415

Ion	Ratio	Lower	Upper
178	100		
176	19.4	14.9	22.3
179	14.2	12.4	18.6



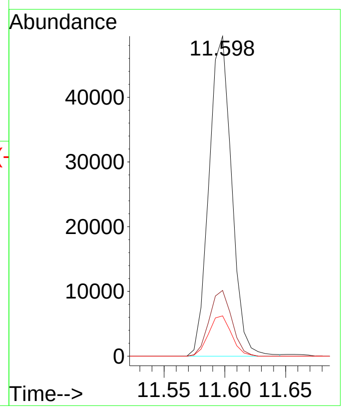


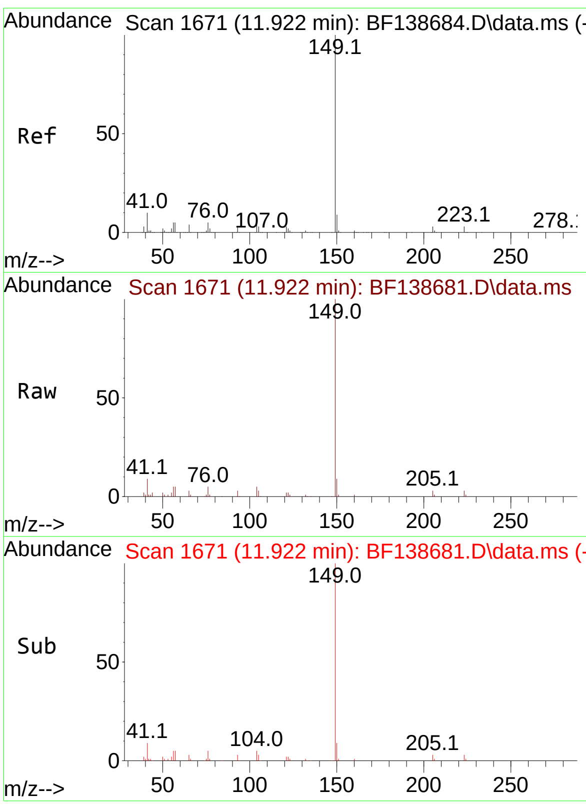
#73
Carbazole
Concen: 5.541 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:167 Resp: 64031

Ion	Ratio	Lower	Upper
167	100		
166	20.5	17.2	25.8
139	12.6	10.6	16.0

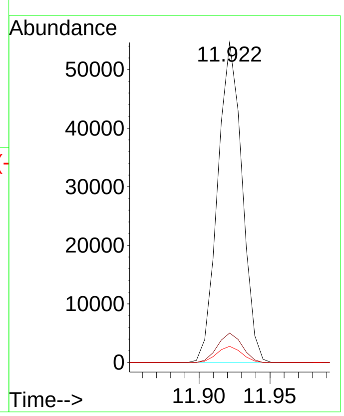




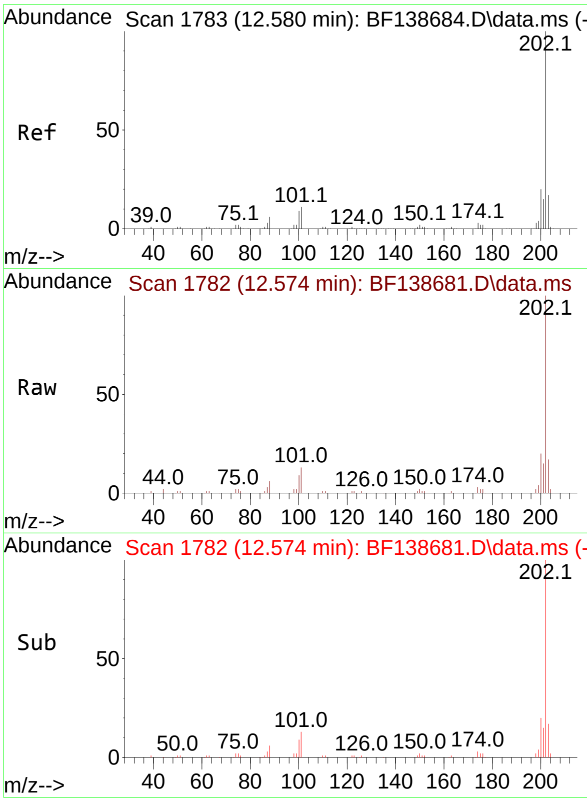
#74
Di-n-butylphthalate
Concen: 5.034 ng
RT: 11.922 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:149 Resp: 65388

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.0	4.1	6.1



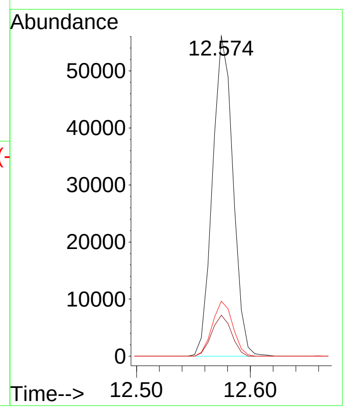
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

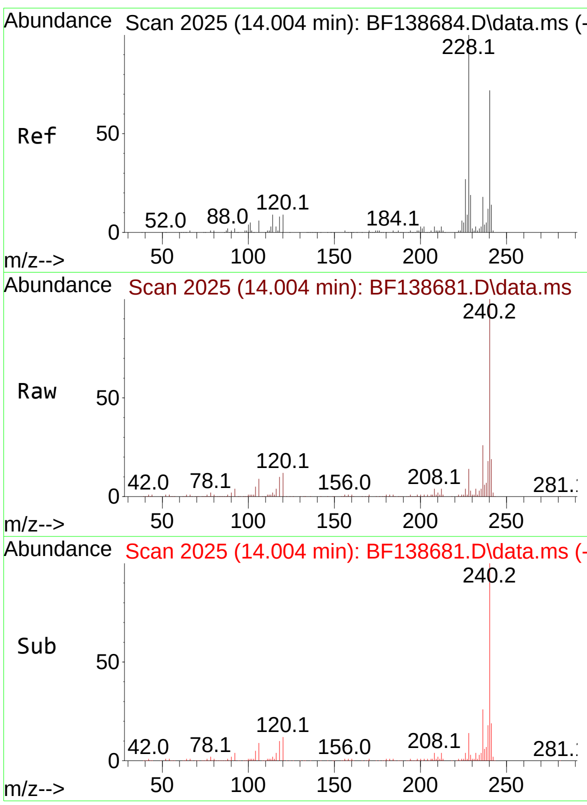


#75
Fluoranthene
Concen: 5.554 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:202 Resp: 70499

Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	31.2
203	17.2	0.0	37.3

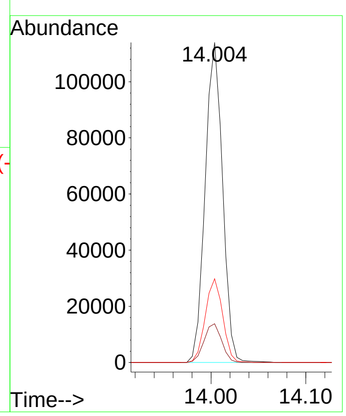




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

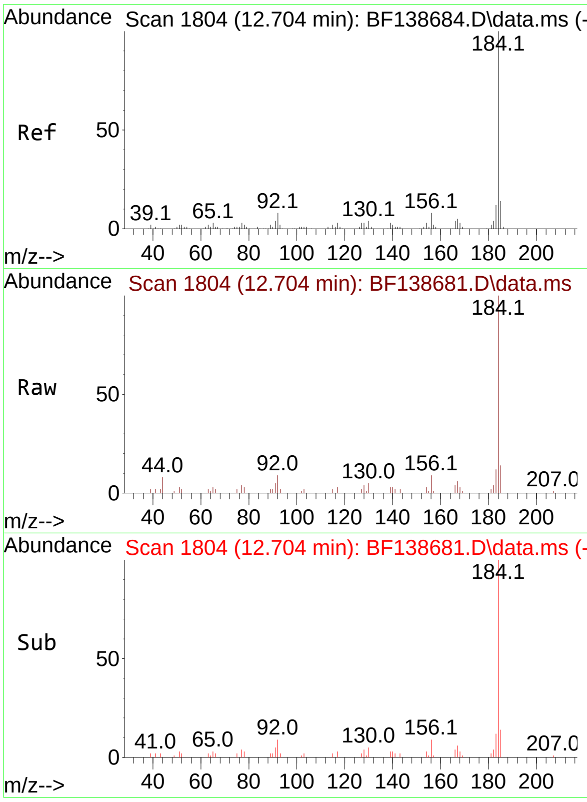
Tgt Ion:240 Resp: 144971

Ion	Ratio	Lower	Upper
240	100		
120	12.1	10.2	15.4
236	26.2	19.8	29.8



ICAL Form

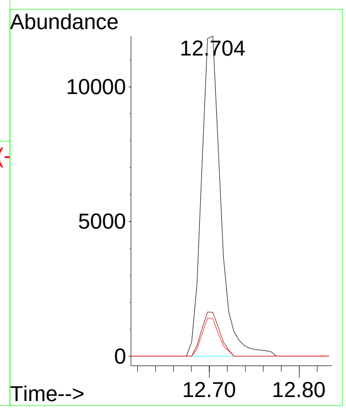
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

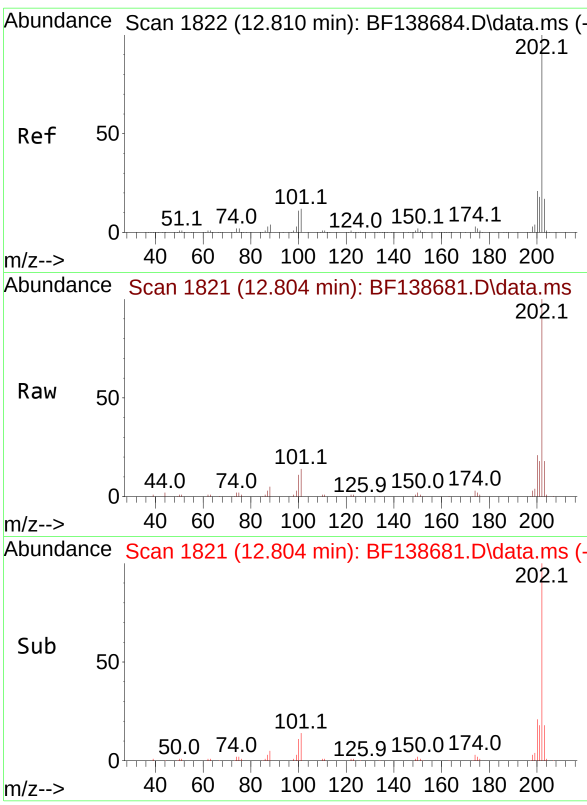


#77
Benzidine
Concen: 5.129 ng
RT: 12.704 min Scan# 18
Delta R.T. -0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:184 Resp: 17784

Ion	Ratio	Lower	Upper
184	100		
185	13.7	11.1	16.7
183	11.7	9.6	14.4

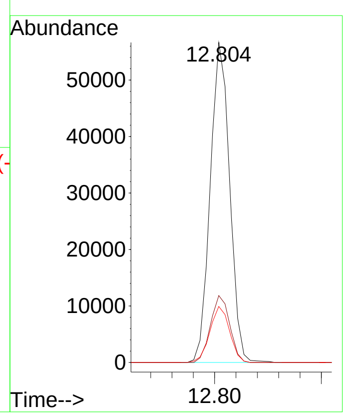




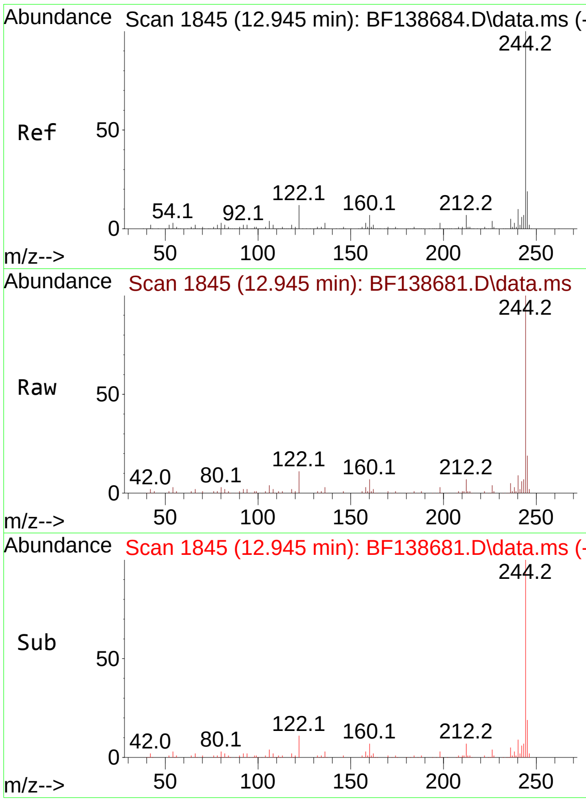
#78
Pyrene
Concen: 5.253 ng
RT: 12.804 min Scan# 1821
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:202 Resp: 71695

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.5	13.8	20.6



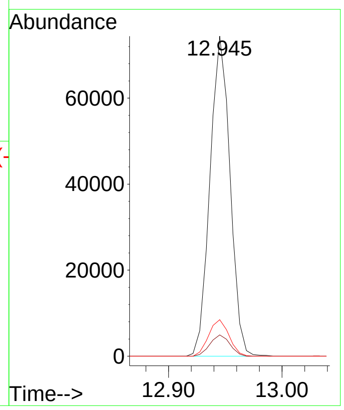
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

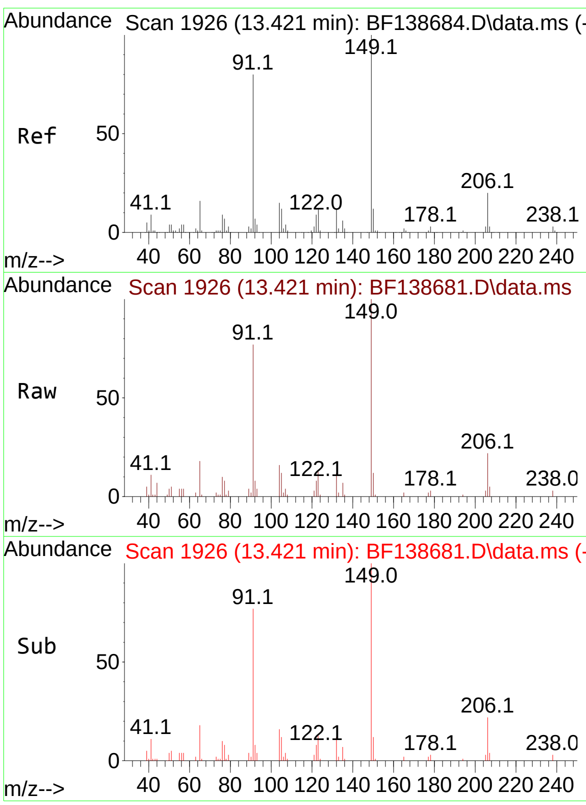


#79
Terphenyl-d14
Concen: 10.581 ng
RT: 12.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:244 Resp: 91621

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.2
122	11.4	9.6	14.4

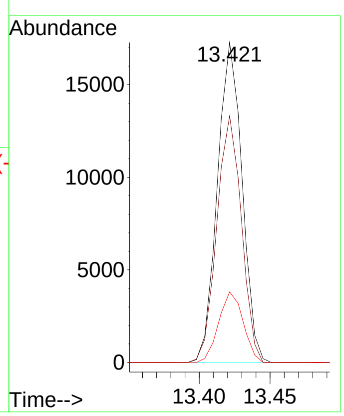




#80
Butylbenzylphthalate
Concen: 4.782 ng
RT: 13.421 min Scan# 1926
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

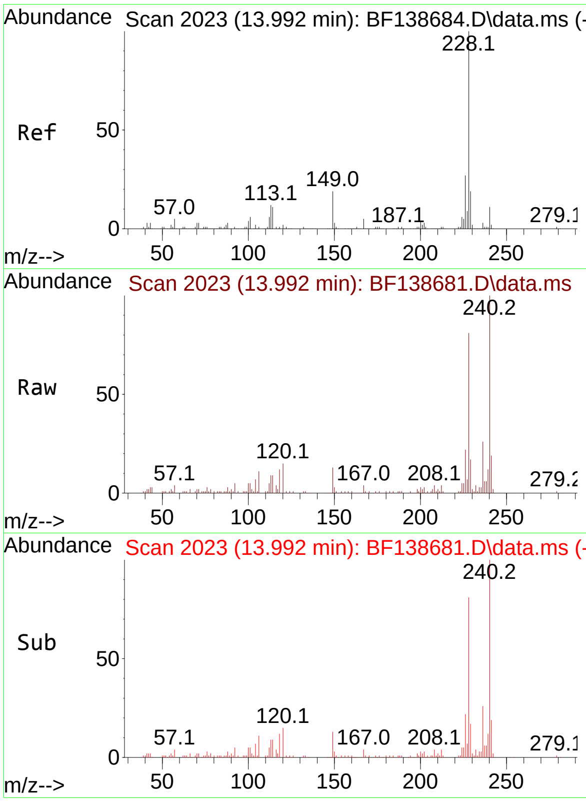
Tgt Ion:149 Resp: 20901

Ion	Ratio	Lower	Upper
149	100		
91	77.1	63.7	95.5
206	22.0	16.2	24.2



ICAL Form

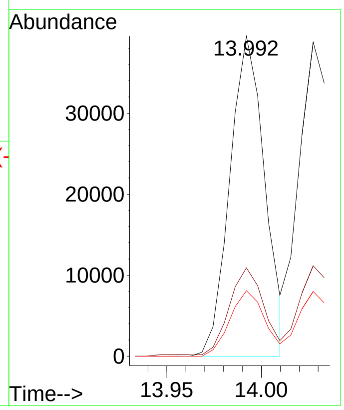
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

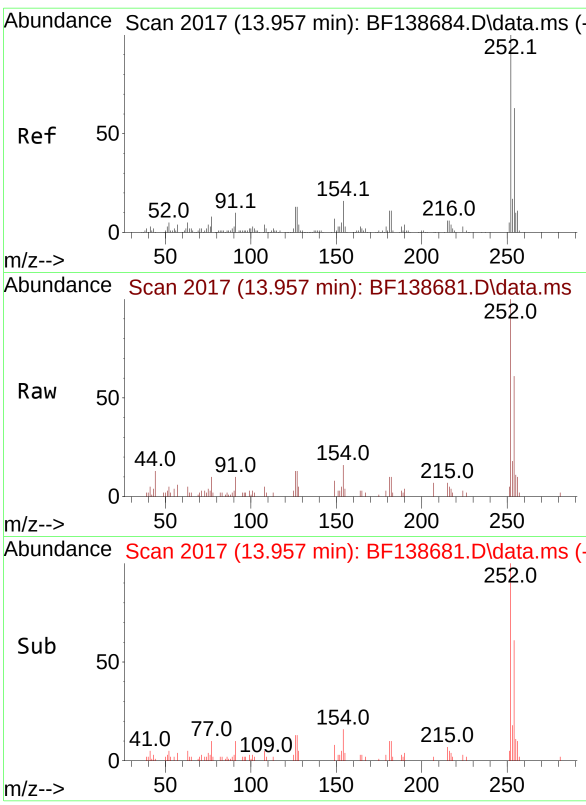


#81
Benzo(a)anthracene
Concen: 5.086 ng
RT: 13.992 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:228 Resp: 50774

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.1	33.1
229	20.5	15.4	23.0

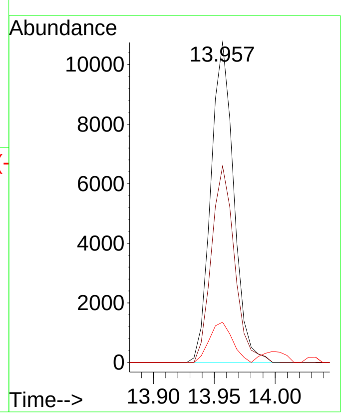




#82
3,3'-Dichlorobenzidine
Concen: 5.509 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

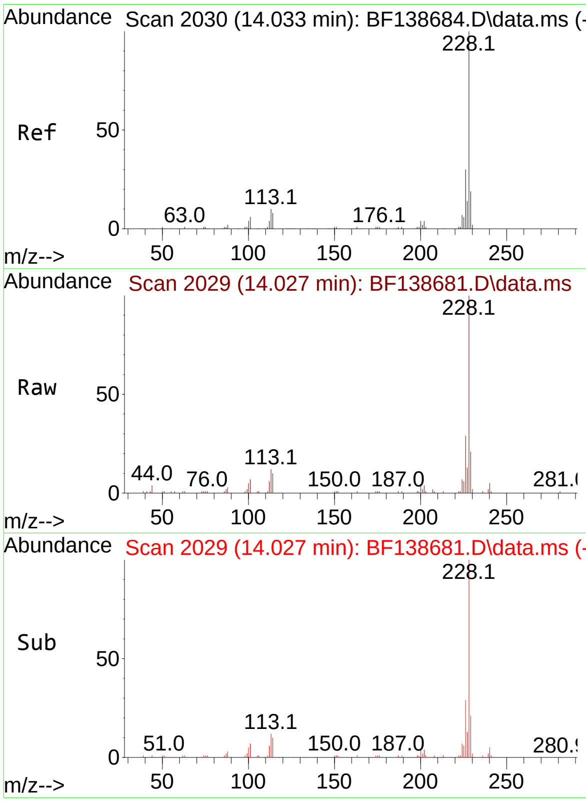
Tgt Ion:252 Resp: 14073

Ion	Ratio	Lower	Upper
252	100		
254	61.3	50.8	76.2
126	12.6	10.2	15.2



ICAL Form

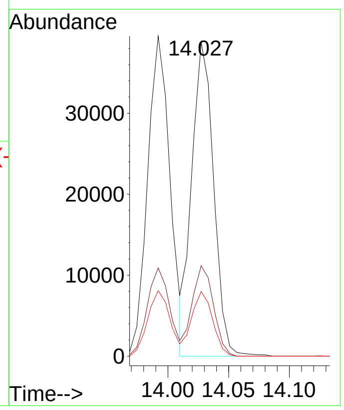
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

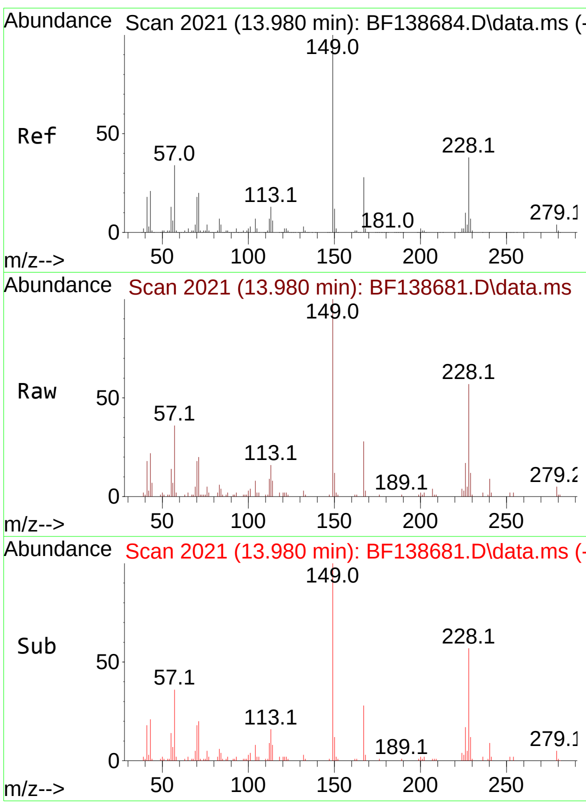


#83
Chrysene
Concen: 5.401 ng
RT: 14.027 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:228 Resp: 48647

Ion	Ratio	Lower	Upper
228	100		
226	28.8	23.7	35.5
229	20.6	15.0	22.6

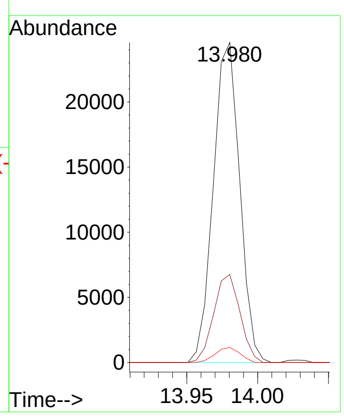




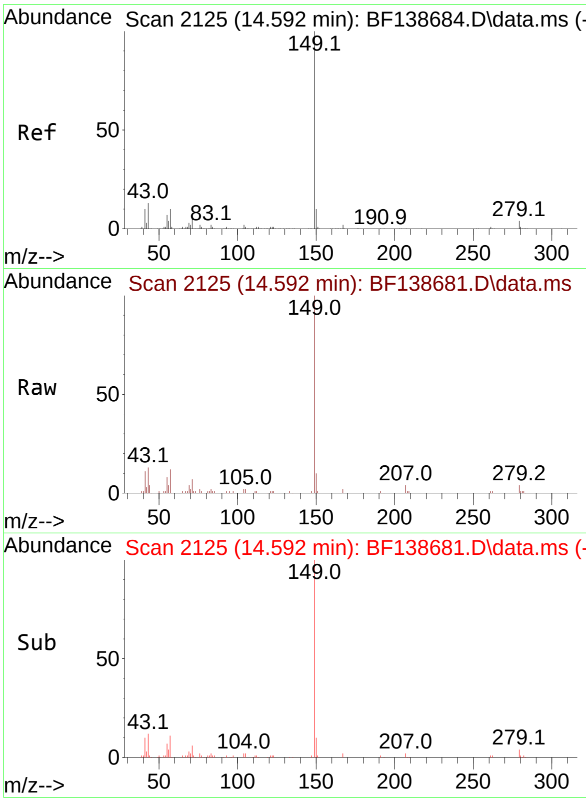
#84
Bis(2-ethylhexyl)phthalate
Concen: 4.961 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:149 Resp: 31754

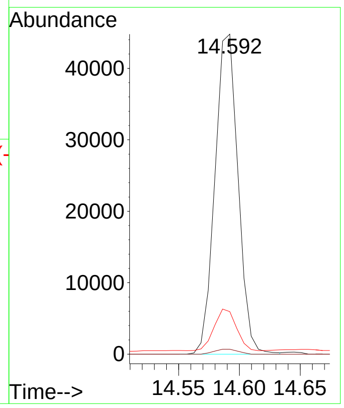
Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.7	3.4	5.0

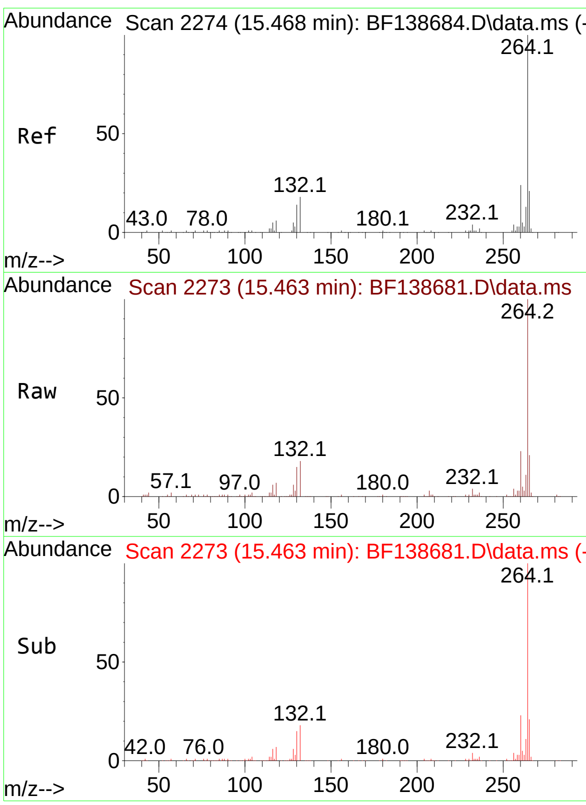


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

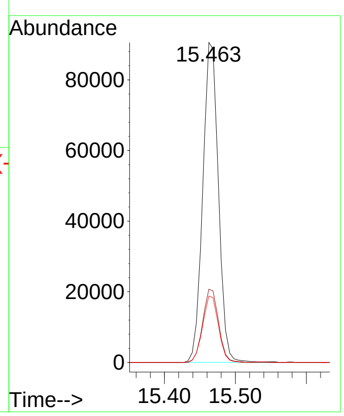



```
#85
Di-n-octyl phthalate
Concen:     5.011 ng
RT:  14.592 min  Scan# 2
Delta R.T.  0.000 min
Lab File:   BF138681.D
Acq: 30 Jul 2024  13:25

Tgt Ion:149 Resp:   59336
Ion  Ratio  Lower  Upper
149  100
167    1.6    1.4    2.0
 43   12.6   10.4   15.6
```

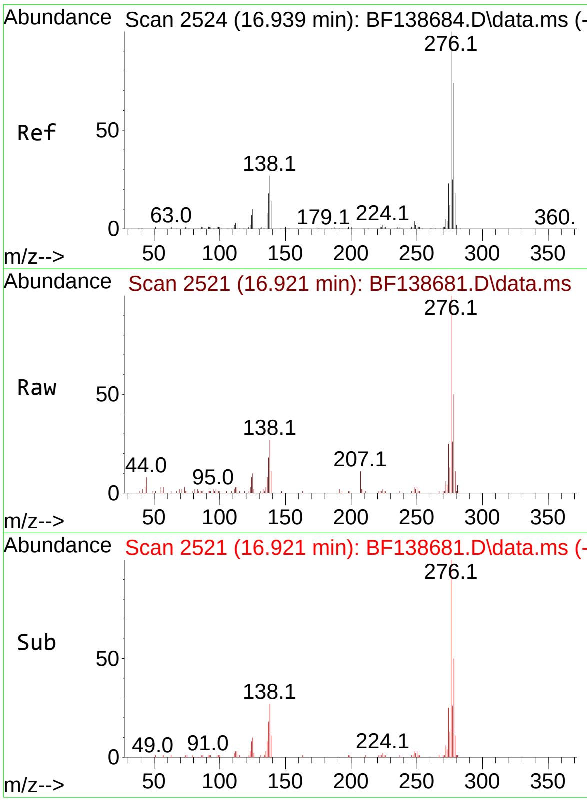





```
#86
Perylene-d12
Concen:   20.000 ng
RT:  15.463 min  Scan# 2273
Delta R.T.  -0.006 min
Lab File:   BF138681.D
Acq: 30 Jul 2024  13:25

Tgt Ion:264 Resp:  139476
Ion  Ratio  Lower  Upper
264  100
260   22.9   19.0   28.6
265   20.7   17.0   25.6
```



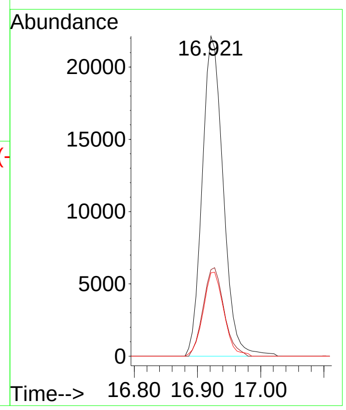
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

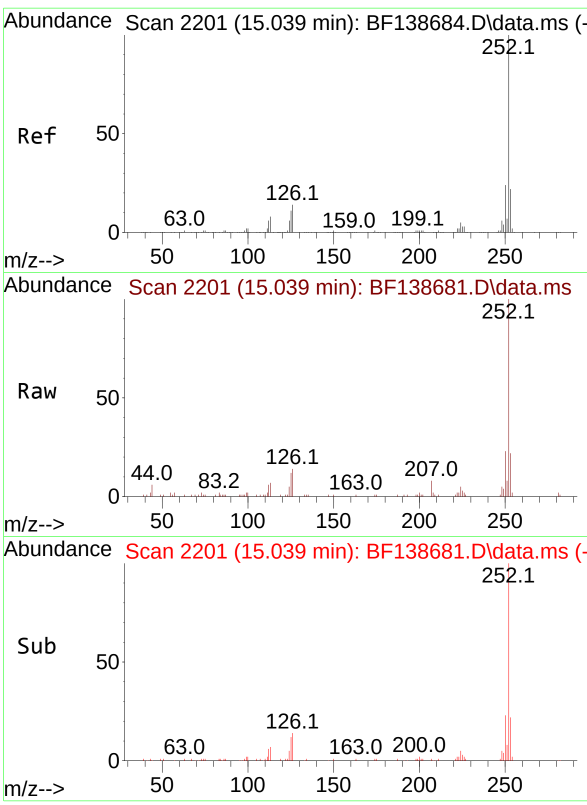


#87
Indeno(1,2,3-cd)pyrene
Concen: 5.126 ng
RT: 16.921 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:276 Resp: 51232

Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.8	32.8
277	25.7	20.6	30.8

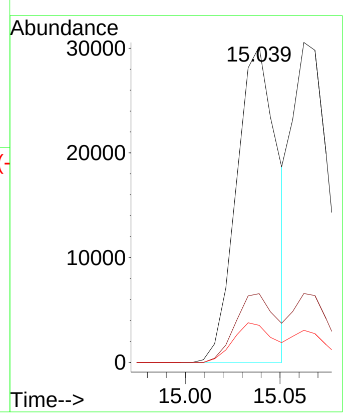




#88
Benzo(b)fluoranthene
Concen: 5.188 ng
RT: 15.039 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

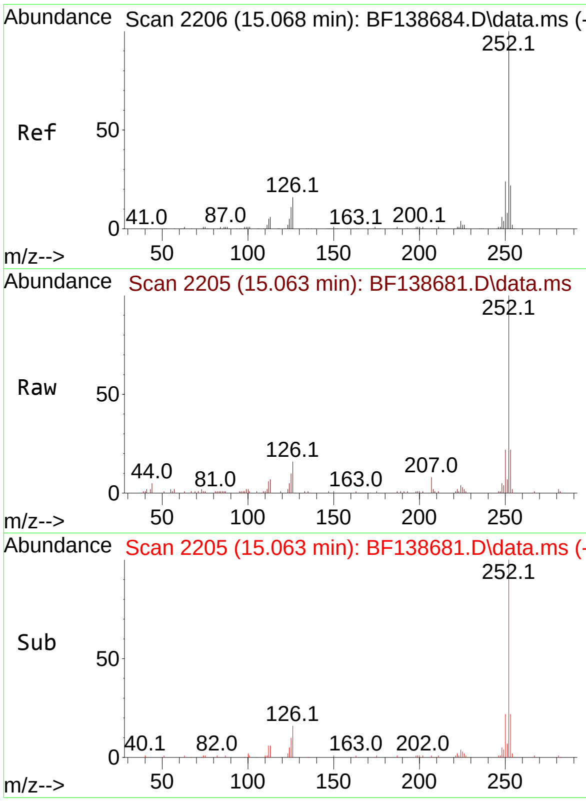
Tgt Ion:252 Resp: 44859

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	11.7	8.9	13.3



ICAL Form

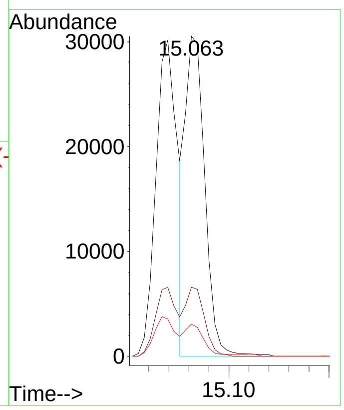
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

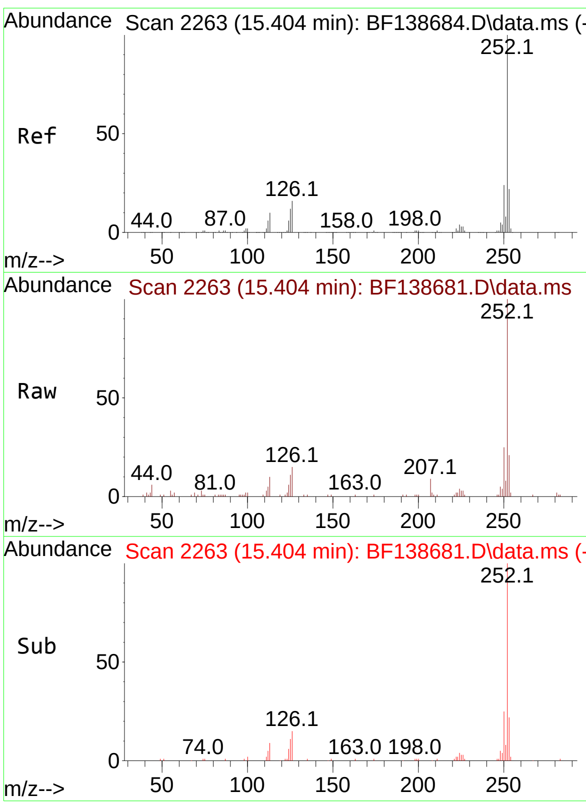


#89
Benzo(k)fluoranthene
Concen: 5.600 ng
RT: 15.063 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:252 Resp: 41920

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.0
125	10.1	8.6	13.0

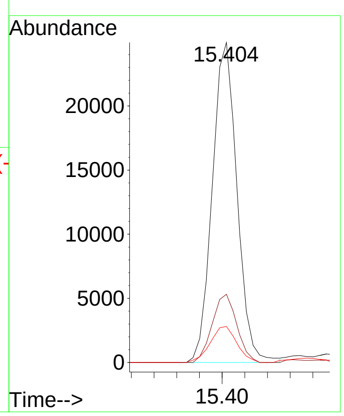




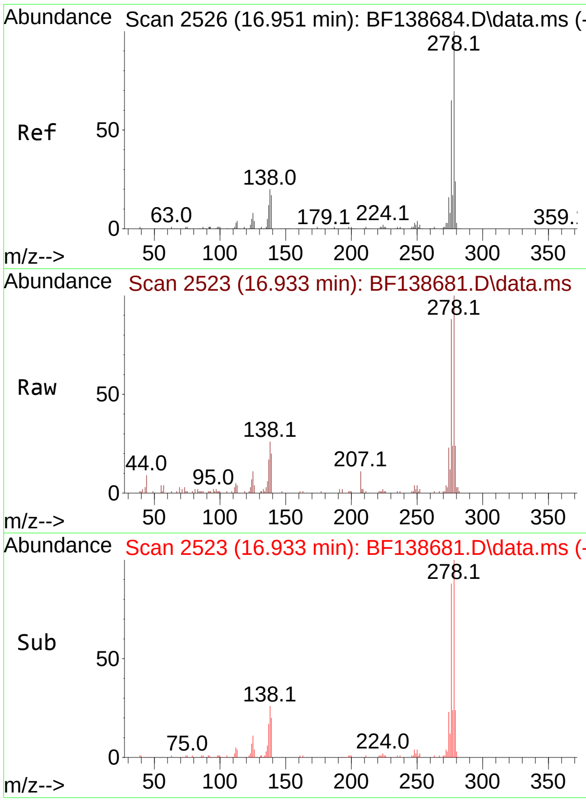
#90
Benzo(a)pyrene
Concen: 5.199 ng
RT: 15.404 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:252 Resp: 37810

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.3	25.9
125	11.2	9.5	14.3



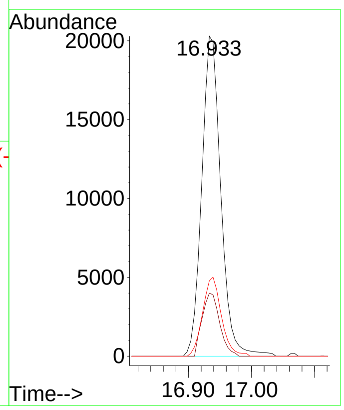
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

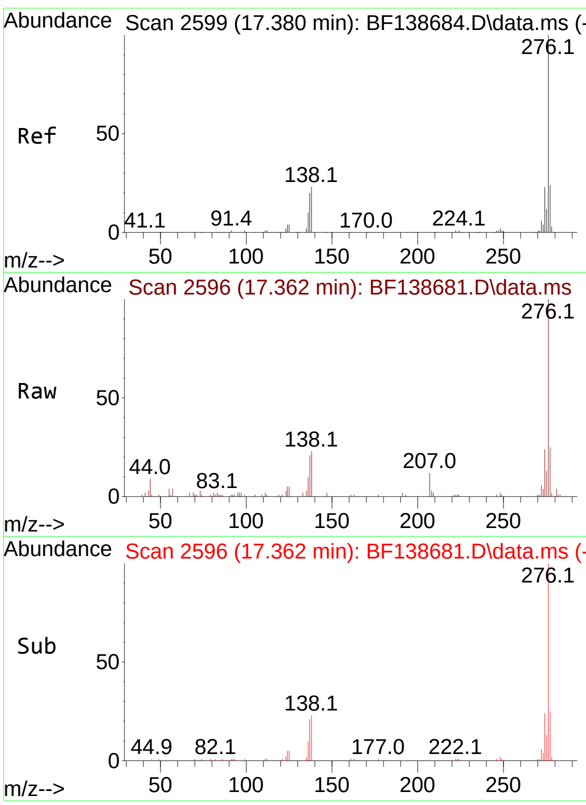


#91
Dibenzo(a,h)anthracene
Concen: 5.209 ng
RT: 16.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:278 Resp: 42736

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.0	21.0
279	23.5	19.0	28.4

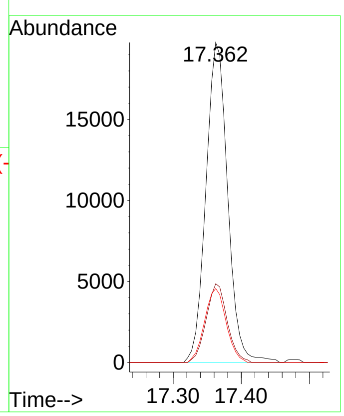




#92
Benzo(g,h,i)perylene
Concen: 5.165 ng
RT: 17.362 min Scan# 2596
Delta R.T. -0.018 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:276 Resp: 43978

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.0	28.4
138	23.1	18.5	27.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138682.D
Acq On : 30 Jul 2024 13:56
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

Quant Time: Jul 30 17:42:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	73349	20.000 ng		0.00
21) Naphthalene-d8	8.128	136	297904	20.000 ng		0.00
39) Acenaphthene-d10	9.880	164	162245	20.000 ng		0.00
64) Phenanthrene-d10	11.369	188	269225	20.000 ng		0.00
76) Chrysene-d12	14.004	240	146258	20.000 ng		0.00
86) Perylene-d12	15.468	264	137026	20.000 ng		0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	100297	21.108 ng		0.00
7) Phenol-d6	6.475	99	133232	20.884 ng		-0.01
23) Nitrobenzene-d5	7.404	82	123997	20.350 ng		0.00
42) 2,4,6-Tribromophenol	10.669	330	26595	20.011 ng		0.00
45) 2-Fluorobiphenyl	9.198	172	231000	21.392 ng		0.00
79) Terphenyl-d14	12.945	244	185079	21.187 ng		0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.593	88	20339	9.777 ng		95
3) Pyridine	3.357	79	50057	9.933 ng		98
4) n-Nitrosodimethylamine	3.287	42	29962	9.983 ng	#	98
6) Aniline	6.504	93	59629	10.481 ng		94
8) 2-Chlorophenol	6.628	128	51997	10.401 ng		97
9) Benzaldehyde	6.398	77	41047	10.733 ng		99
10) Phenol	6.492	94	71371	10.626 ng		92
11) bis(2-Chloroethyl)ether	6.575	93	54121	10.471 ng		99
12) 1,3-Dichlorobenzene	6.787	146	59006	10.544 ng		98
13) 1,4-Dichlorobenzene	6.863	146	59226	10.487 ng		97
14) 1,2-Dichlorobenzene	7.016	146	55425	10.501 ng		98
15) Benzyl Alcohol	6.987	79	47206	10.267 ng		99
16) 2,2'-oxybis(1-Chloropr...	7.116	45	94469	10.620 ng		97
17) 2-Methylphenol	7.098	107	42323	10.252 ng		97
18) Hexachloroethane	7.351	117	22530	10.598 ng		97
19) n-Nitroso-di-n-propyla...	7.245	70	39862	10.345 ng		99
20) 3+4-Methylphenols	7.251	107	56989	10.760 ng		97
22) Acetophenone	7.251	105	75892	10.404 ng		99
24) Nitrobenzene	7.422	77	63020	10.164 ng		98
25) Isophorone	7.663	82	105784	10.167 ng		99
26) 2-Nitrophenol	7.739	139	26149	9.803 ng		96
27) 2,4-Dimethylphenol	7.781	122	32386	10.147 ng		98
28) bis(2-Chloroethoxy)met...	7.875	93	64569	10.191 ng		99
29) 2,4-Dichlorophenol	7.987	162	41138	10.031 ng		99
30) 1,2,4-Trichlorobenzene	8.063	180	48272	10.199 ng		98
31) Naphthalene	8.145	128	164167	10.469 ng		99
32) Benzoic acid	7.875	122	20318m	8.102 ng		
33) 4-Chloroaniline	8.198	127	54003	10.260 ng		98
34) Hexachlorobutadiene	8.263	225	29309	10.224 ng		98
35) Caprolactam	8.539	113	12474	10.193 ng		93
36) 4-Chloro-3-methylphenol	8.681	107	47584	10.152 ng		96
37) 2-Methylnaphthalene	8.839	142	104097	10.511 ng		99
38) 1-Methylnaphthalene	8.934	142	102100	10.521 ng		100
40) 1,2,4,5-Tetrachloroben...	9.004	216	45439	10.082 ng		98
41) Hexachlorocyclopentadiene	8.986	237	5161	10.915 ng		96
43) 2,4,6-Trichlorophenol	9.116	196	27439	9.985 ng		98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138682.D
Acq On : 30 Jul 2024 13:56
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

Quant Time: Jul 30 17:42:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	30782	10.247	ng		97
46) 1,1'-Biphenyl	9.298	154	132668	10.441	ng		99
47) 2-Chloronaphthalene	9.328	162	97850	10.354	ng		97
48) 2-Nitroaniline	9.422	65	32731	10.216	ng		97
49) Acenaphthylene	9.739	152	141438	10.552	ng		99
50) Dimethylphthalate	9.598	163	105187	10.139	ng		100
51) 2,6-Dinitrotoluene	9.663	165	23351	9.974	ng		95
52) Acenaphthene	9.910	154	95143	10.560	ng		98
53) 3-Nitroaniline	9.833	138	24353	10.062	ng		99
54) 2,4-Dinitrophenol	9.951	184	7908	7.337	ng		88
55) Dibenzofuran	10.080	168	136302	10.717	ng		99
56) 4-Nitrophenol	10.004	139	12643	8.687	ng		95
57) 2,4-Dinitrotoluene	10.069	165	30462	10.198	ng		99
58) Fluorene	10.428	166	107585	10.622	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.204	232	22672	9.872	ng	#	94
60) Diethylphthalate	10.298	149	102108	10.381	ng		99
61) 4-Chlorophenyl-phenyle...	10.416	204	53870	10.814	ng		99
62) 4-Nitroaniline	10.439	138	23653	10.284	ng		98
63) Azobenzene	10.575	77	112880	10.347	ng		99
65) 4,6-Dinitro-2-methylph...	10.475	198	14344	8.733	ng		96
66) n-Nitrosodiphenylamine	10.533	169	86813	10.316	ng		100
67) 4-Bromophenyl-phenylether	10.910	248	29510	10.124	ng		98
68) Hexachlorobenzene	10.975	284	31049	10.317	ng		96
69) Atrazine	11.063	200	23189	10.680	ng		96
70) Pentachlorophenol	11.175	266	10392	7.661	ng		93
71) Phenanthrene	11.392	178	149253	10.766	ng		99
72) Anthracene	11.439	178	145043	10.620	ng		99
73) Carbazole	11.598	167	126321	10.721	ng		100
74) Di-n-butylphthalate	11.922	149	133246	10.060	ng		99
75) Fluoranthene	12.580	202	140690	10.871	ng		99
77) Benzidine	12.704	184	35263	10.080	ng		100
78) Pyrene	12.810	202	143221	10.400	ng		99
80) Butylbenzylphthalate	13.421	149	41771	9.472	ng		99
81) Benzo(a)anthracene	13.998	228	105185	10.444	ng		97
82) 3,3'-Dichlorobenzidine	13.957	252	26584	10.314	ng		98
83) Chrysene	14.033	228	89780	9.881	ng		99
84) Bis(2-ethylhexyl)phtha...	13.980	149	61314	9.495	ng		98
85) Di-n-octyl phthalate	14.592	149	111460	9.329	ng		100
87) Indeno(1,2,3-cd)pyrene	16.933	276	100310	10.215	ng		99
88) Benzo(b)fluoranthene	15.039	252	93263	10.980	ng		99
89) Benzo(k)fluoranthene	15.068	252	71464	9.717	ng		99
90) Benzo(a)pyrene	15.404	252	71724	10.038	ng		98
91) Dibenzo(a,h)anthracene	16.945	278	84356	10.465	ng		97
92) Benzo(g,h,i)perylene	17.374	276	84564	10.110	ng		98

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

Quantitation Report (QT Reviewed)

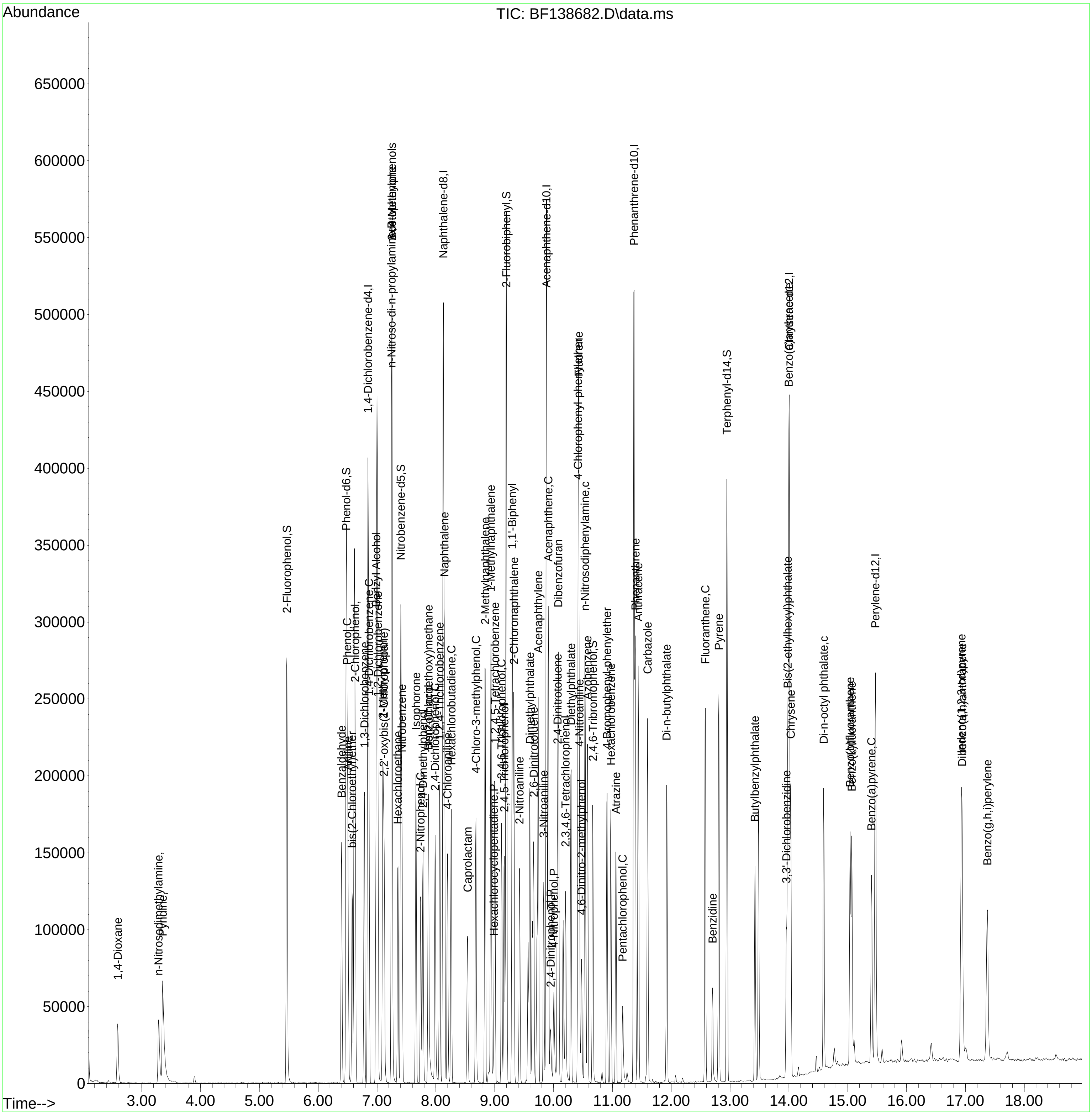
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138682.D
Acq On : 30 Jul 2024 13:56
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

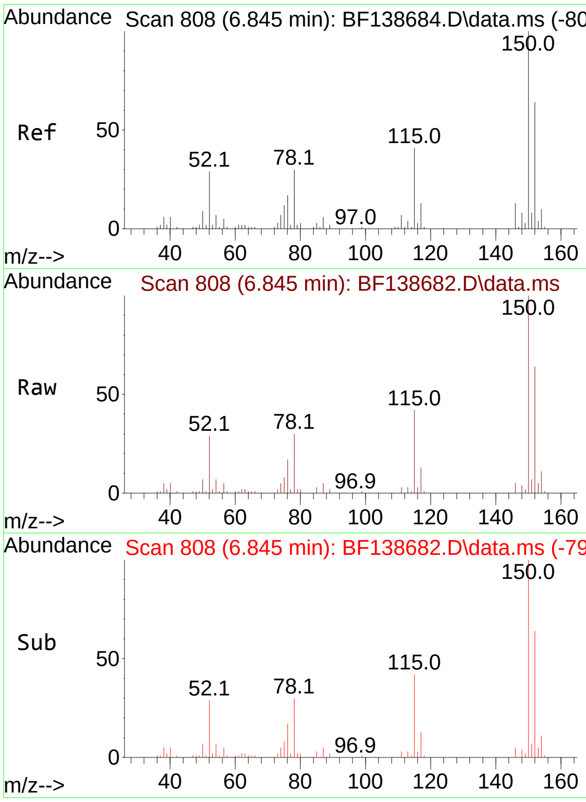
Quant Time: Jul 30 17:42:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024



ICAL Form



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

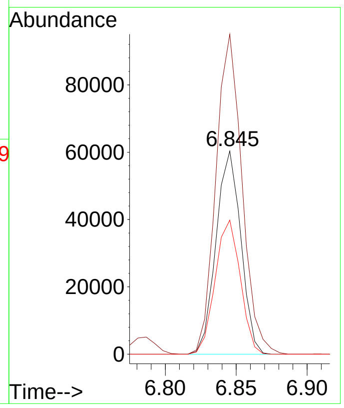
Tgt Ion:152 Resp: 73349

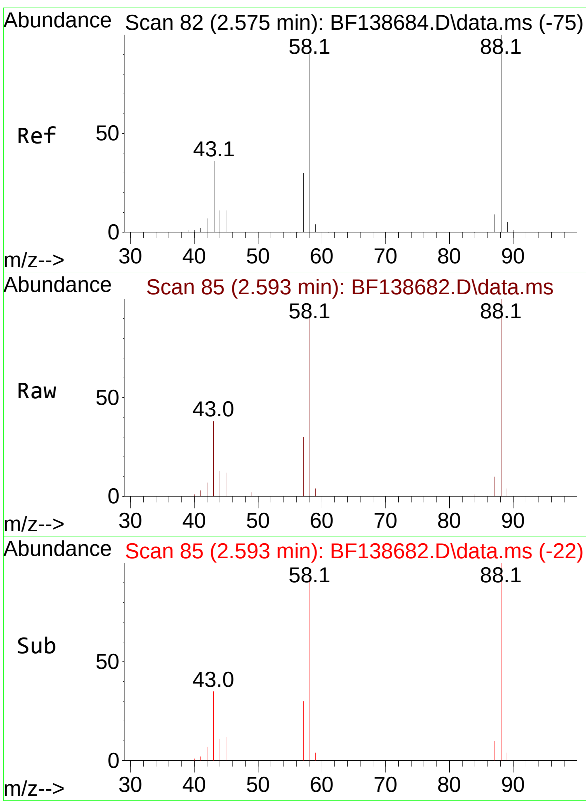
Ion	Ratio	Lower	Upper
152	100		
150	157.4	126.0	189.0
115	66.0	51.7	77.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

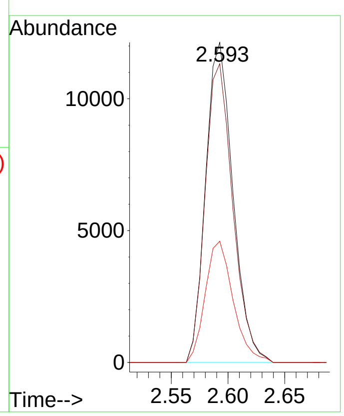




#2
1,4-Dioxane
Concen: 9.777 ng
RT: 2.593 min Scan# 85
Delta R.T. 0.018 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 88 Resp: 20339

Ion	Ratio	Lower	Upper
88	100		
58	94.3	71.6	107.4
43	38.8	28.7	43.1

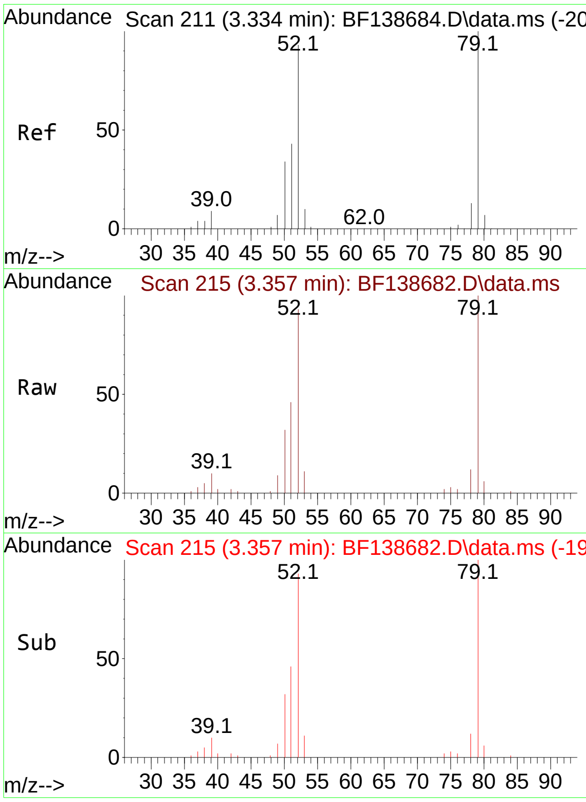


ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

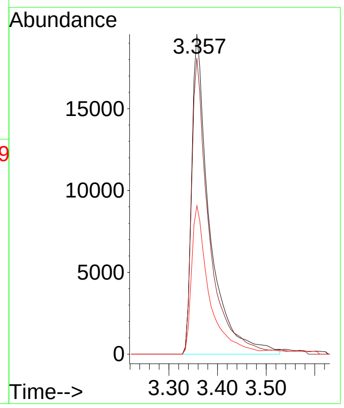
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

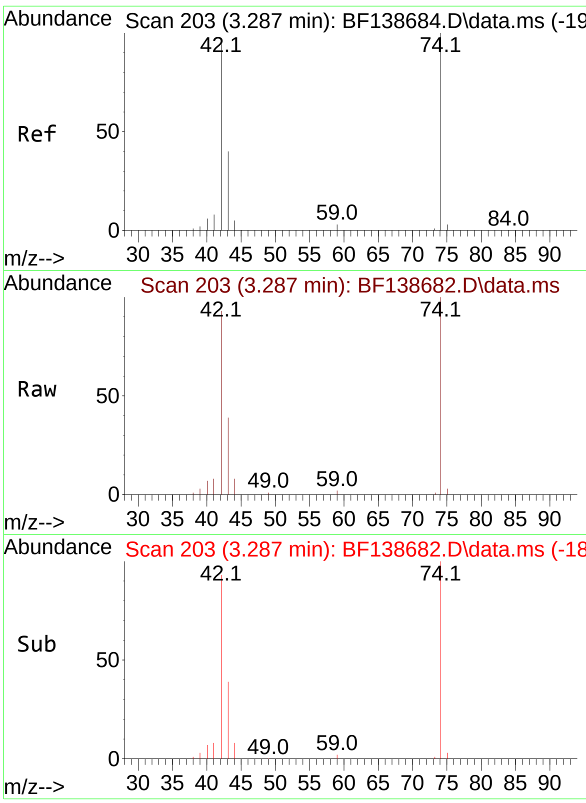


#3
Pyridine
Concen: 9.933 ng
RT: 3.357 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 79 Resp: 5005

Ion	Ratio	Lower	Upper
79	100		
52	92.6	74.7	112.1
51	46.4	34.6	51.8

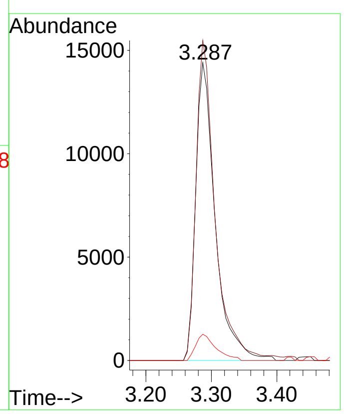




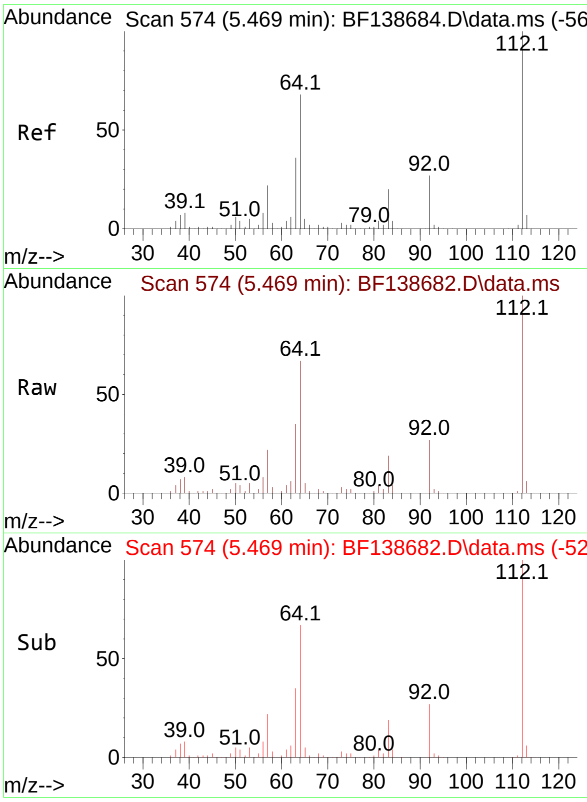
#4
n-Nitrosodimethylamine
Concen: 9.983 ng
RT: 3.287 min Scan# 203
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 42 Resp: 29962

Ion	Ratio	Lower	Upper
42	100		
74	107.5	84.2	126.4
44	8.8	4.9	7.3#



ICAL Form



#5
2-Fluorophenol
Concen: 21.108 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

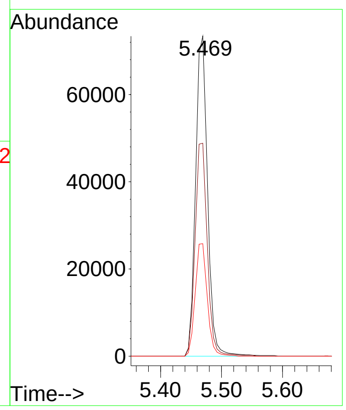
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

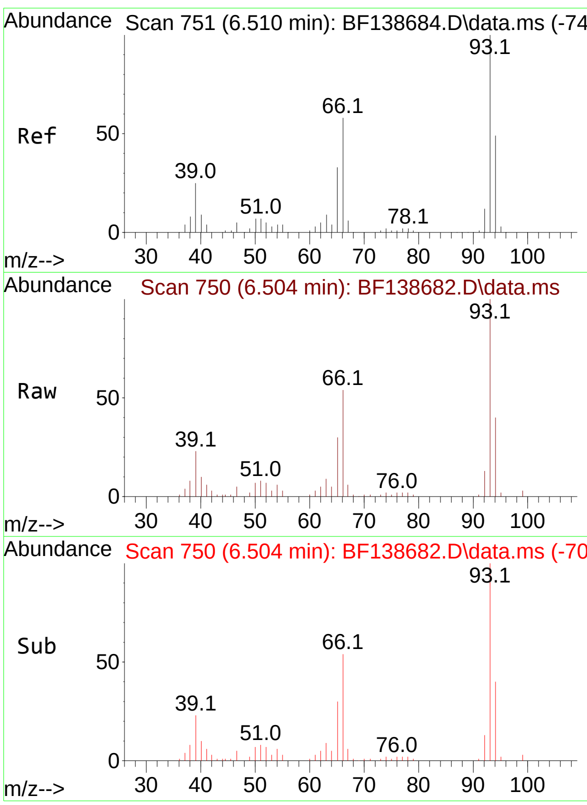
Tgt Ion:112 Resp: 10029

Ion	Ratio	Lower	Upper
112	100		
64	66.6	54.2	81.4
63	35.2	28.7	43.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

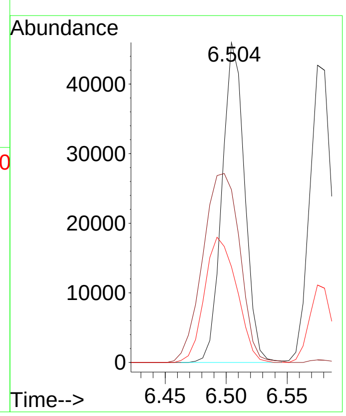




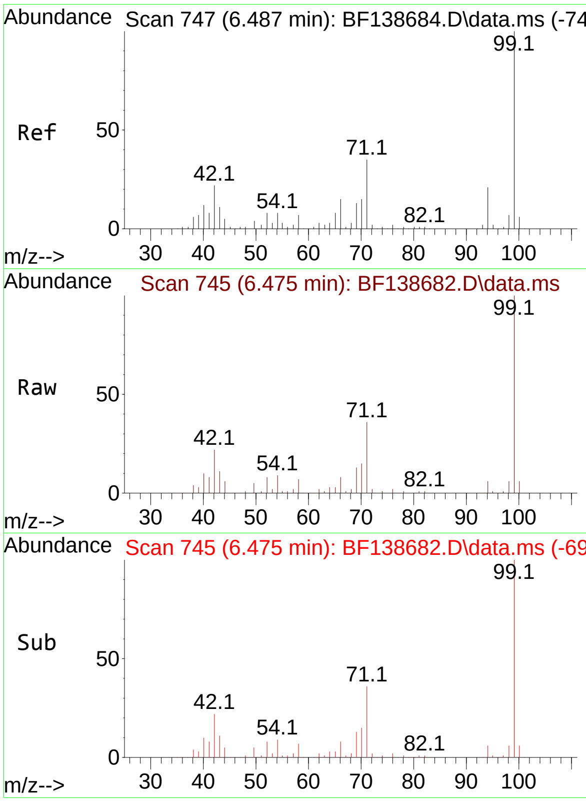
#6
Aniline
Concen: 10.481 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 93 Resp: 59629

Ion	Ratio	Lower	Upper
93	100		
66	54.0	46.9	70.3
65	29.9	26.5	39.7



ICAL Form



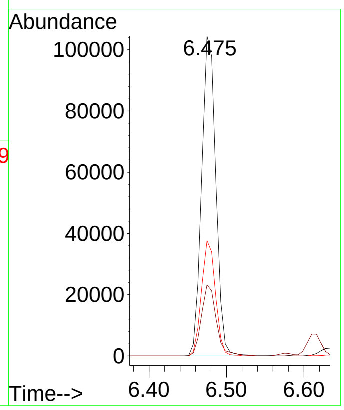
#7
Phenol-d6
Concen: 20.884 ng
RT: 6.475 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

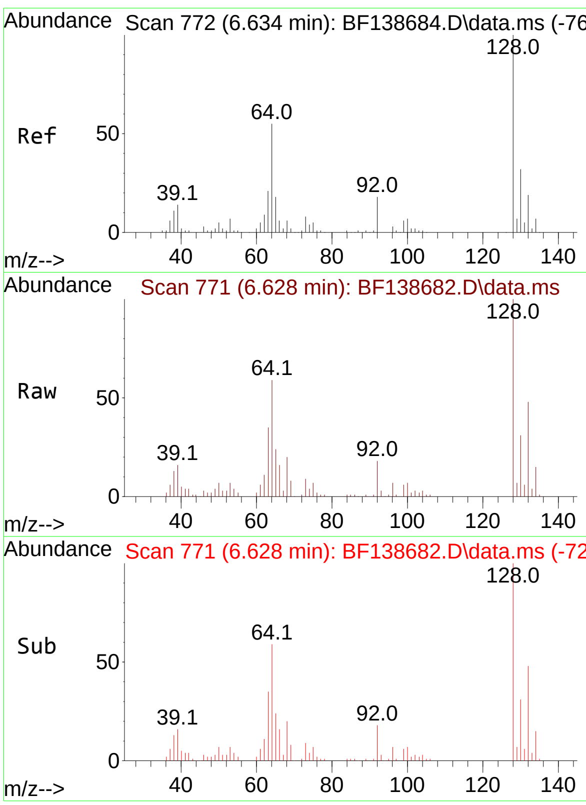
Tgt Ion: 99 Resp: 13323

Ion	Ratio	Lower	Upper
99	100		
42	22.2	17.4	26.0
71	36.0	28.1	42.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

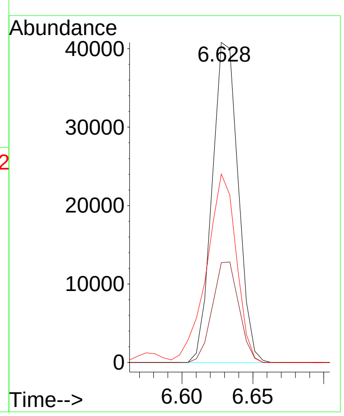




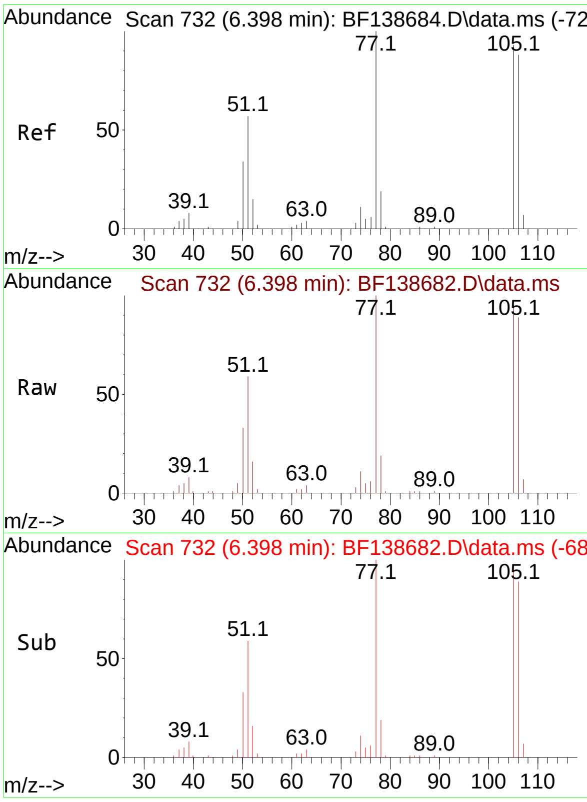
#8
2-Chlorophenol
Concen: 10.401 ng
RT: 6.628 min Scan# 771
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:128 Resp: 51997

Ion	Ratio	Lower	Upper
128	100		
130	31.2	12.0	52.0
64	58.9	36.3	76.3



ICAL Form



#9
Benzaldehyde
Concen: 10.733 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

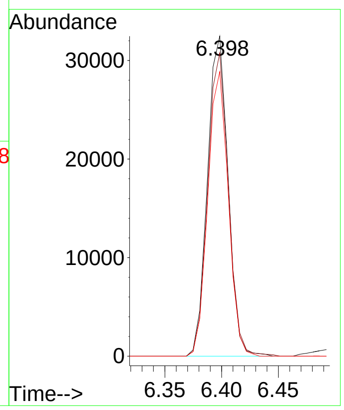
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

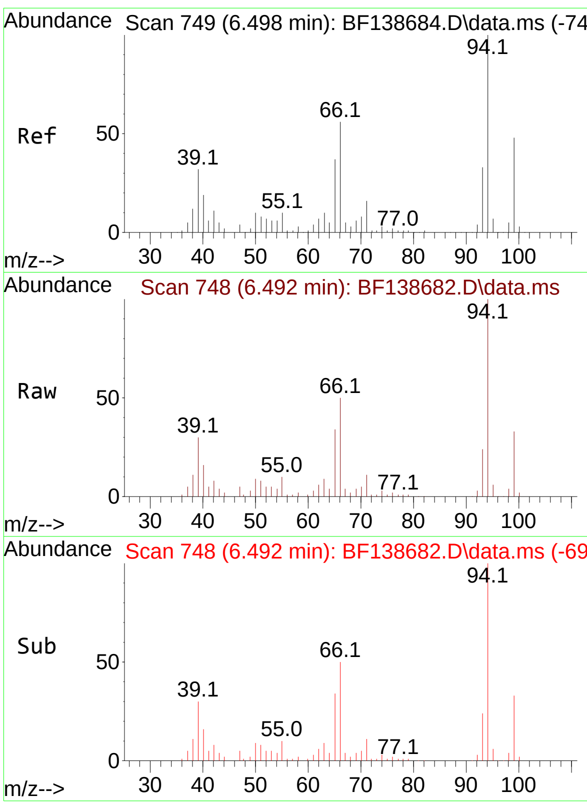
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

Tgt Ion: 77 Resp: 4104

Ion	Ratio	Lower	Upper
77	100		
105	94.8	72.9	112.9
106	88.9	68.4	108.4

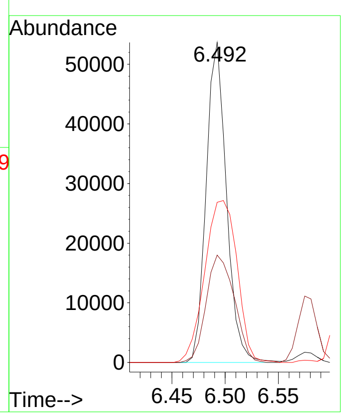




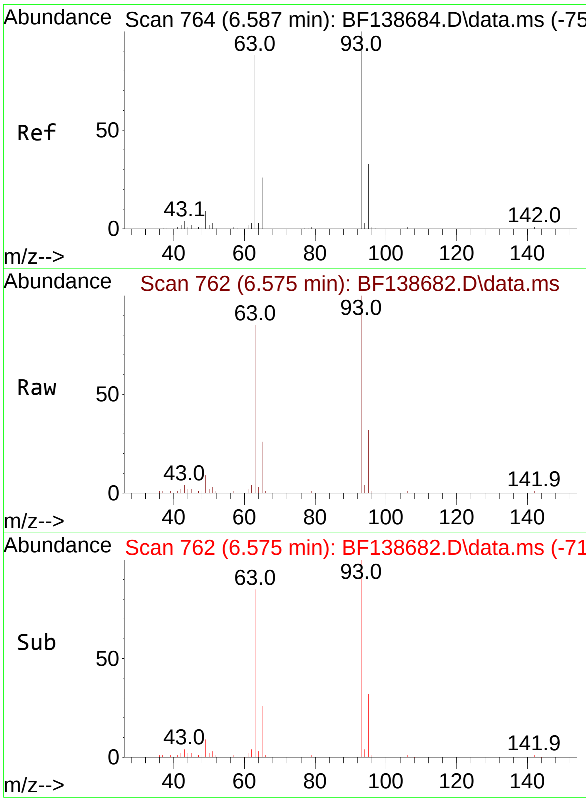
#10
Phenol
Concen: 10.626 ng
RT: 6.492 min Scan# 748
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 94 Resp: 71371

Ion	Ratio	Lower	Upper
94	100		
65	33.6	16.9	56.9
66	50.1	36.5	76.5



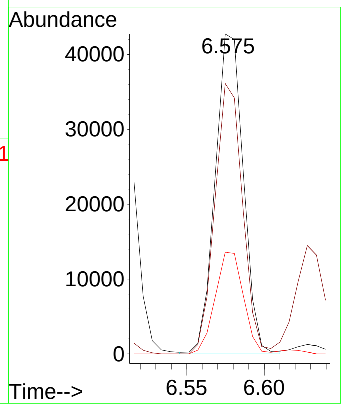
ICAL Form



#11
bis(2-Chloroethyl)ether
Concen: 10.471 ng
RT: 6.575 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 93 Resp: 5412

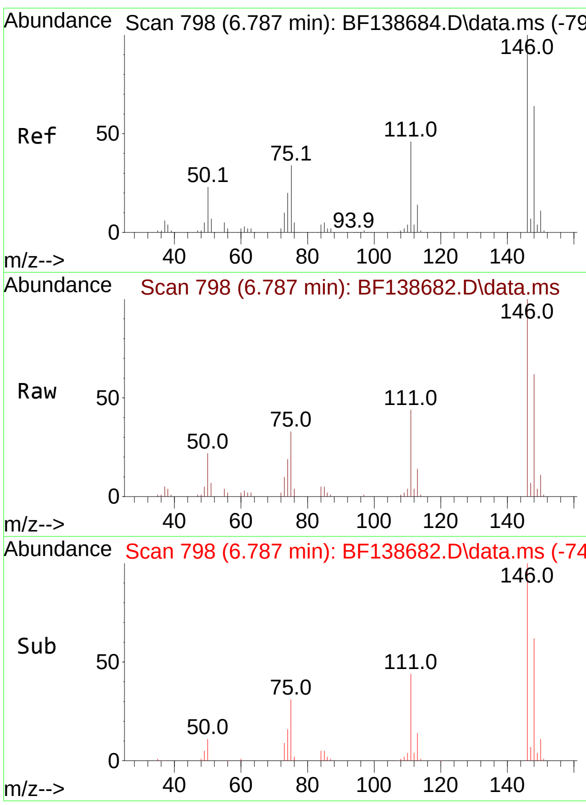
Ion	Ratio	Lower	Upper
93	100		
63	84.5	65.3	105.3
95	31.8	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

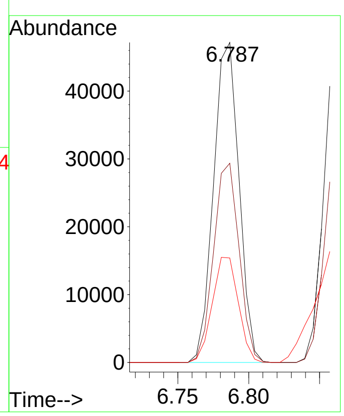
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024



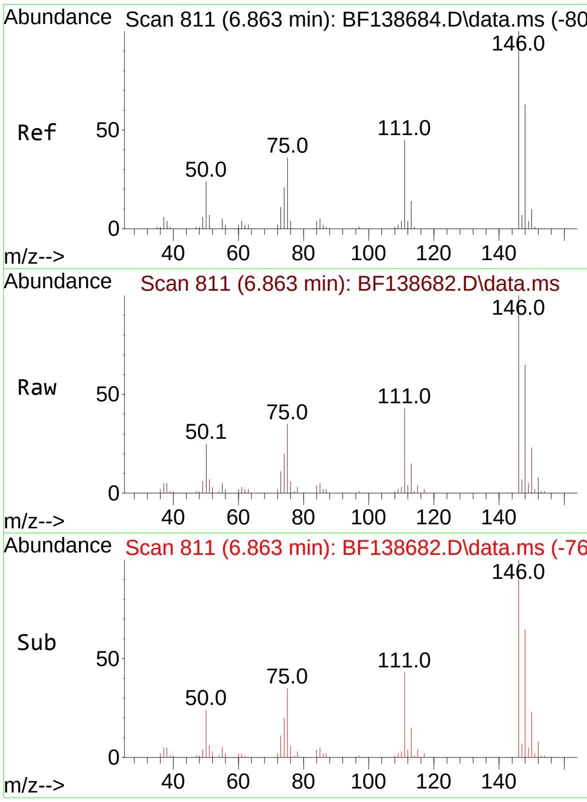
#12
1,3-Dichlorobenzene
Concen: 10.544 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:146 Resp: 59006

Ion	Ratio	Lower	Upper
146	100		
148	62.2	51.2	76.8
75	32.6	27.4	41.2



ICAL Form

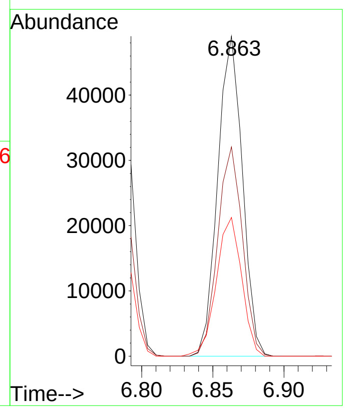


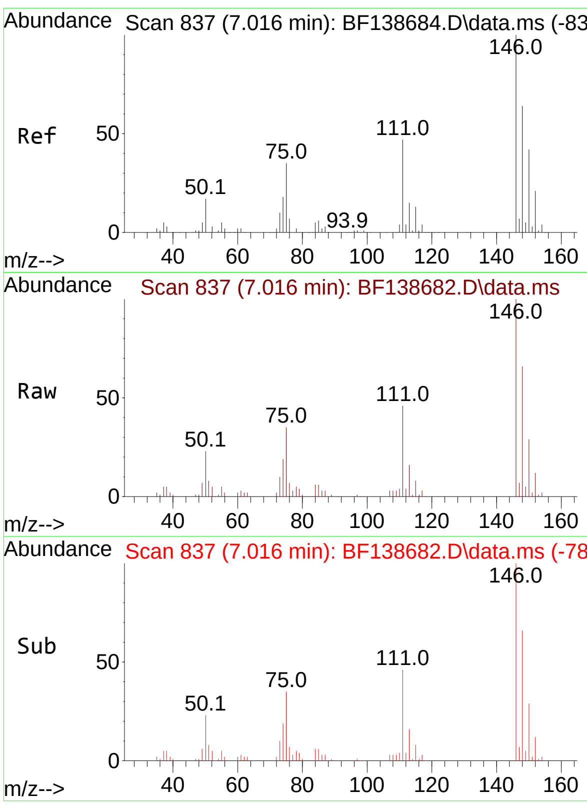

```
#13
1,4-Dichlorobenzene
Concen:   10.487 ng
RT:   6.863 min   Scan# 8
Delta R.T.  0.000 min
Lab File:   BF138682.D
Acq: 30 Jul 2024  13:56

Tgt Ion:146 Resp:   5922
Ion  Ratio  Lower  Upper
146  100
148   65.4   50.2   75.2
111   43.4   35.9   53.9
```

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

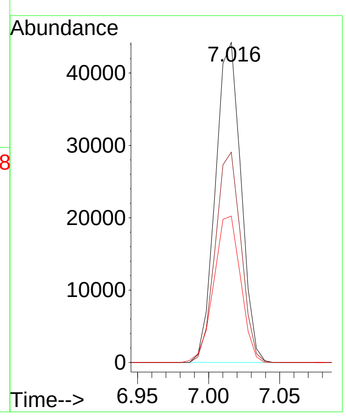
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

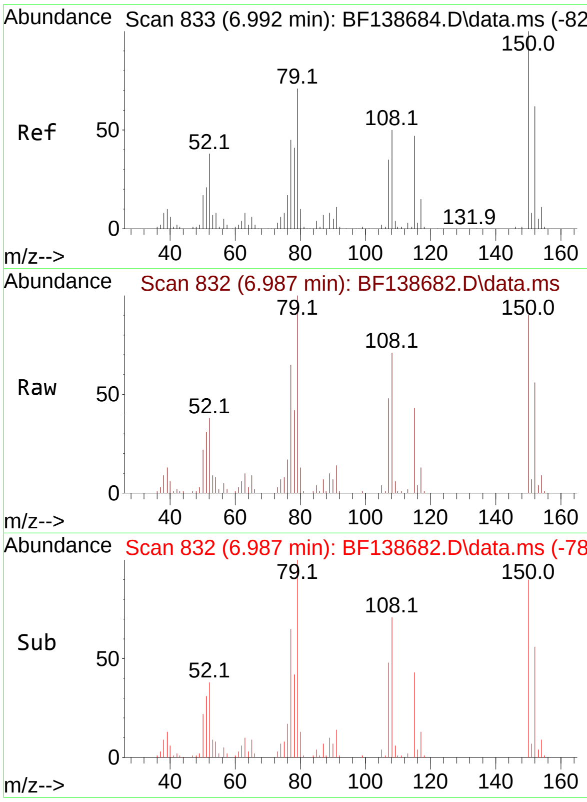





```
#14
1,2-Dichlorobenzene
Concen:   10.501 ng
RT:   7.016 min   Scan# 837
Delta R.T.  -0.000 min
Lab File:   BF138682.D
Acq: 30 Jul 2024  13:56

Tgt Ion:146 Resp:   55425
Ion  Ratio  Lower  Upper
146  100
148   65.7   50.8   76.2
111   45.7   37.4   56.2
```



ICAL Form



#15
Benzyl Alcohol
Concen: 10.267 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

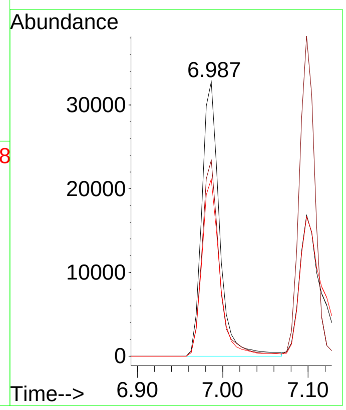
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

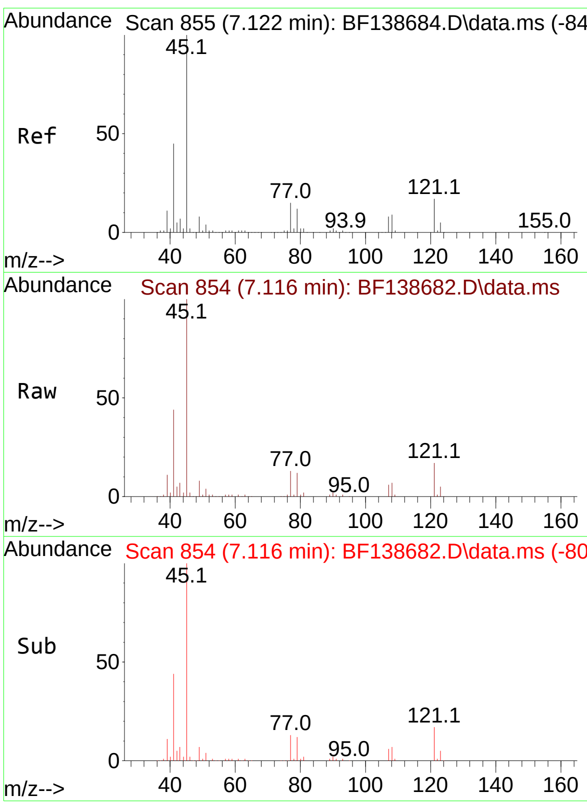
Tgt Ion: 79 Resp: 4720

Ion	Ratio	Lower	Upper
79	100		
108	71.4	56.6	85.0
77	64.6	50.3	75.5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

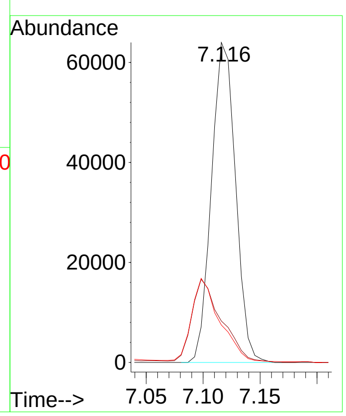


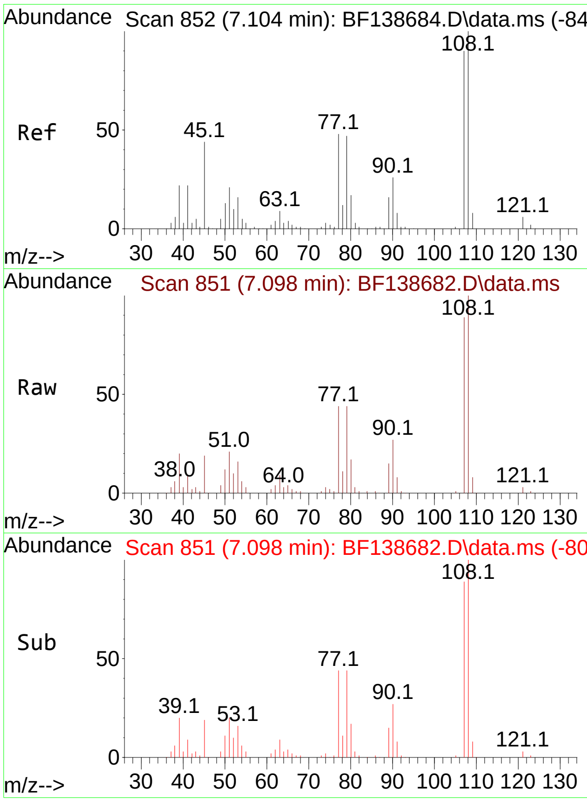


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.620 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 45 Resp: 94469

Ion	Ratio	Lower	Upper
45	100		
77	13.0	0.0	34.9
79	11.7	0.0	32.2





#17
2-Methylphenol
Concen: 10.252 ng
RT: 7.098 min Scan# 8!
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

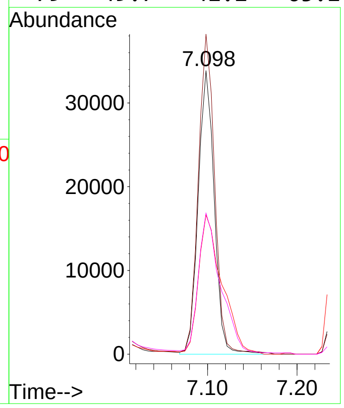
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

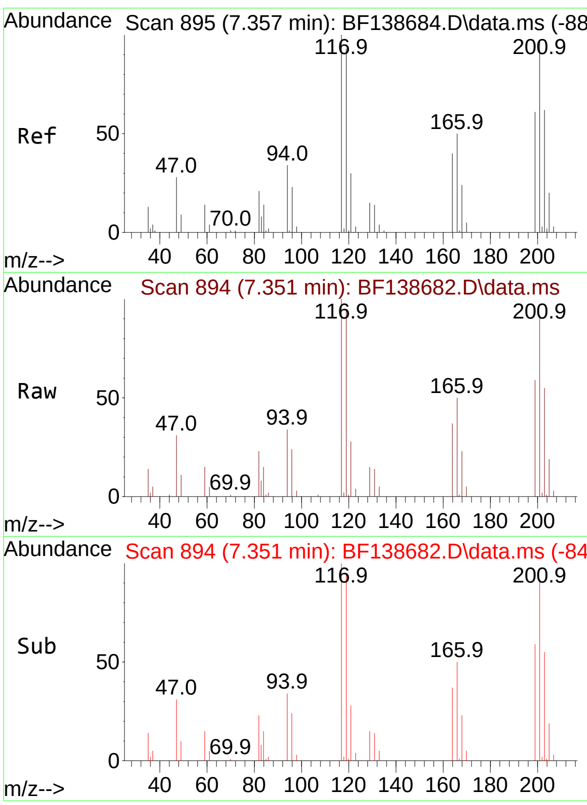
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

Tgt Ion:107 Resp: 4232

Ion	Ratio	Lower	Upper
107	100		
108	112.9	89.2	133.8
77	49.1	43.0	64.4
79	49.7	42.2	63.2

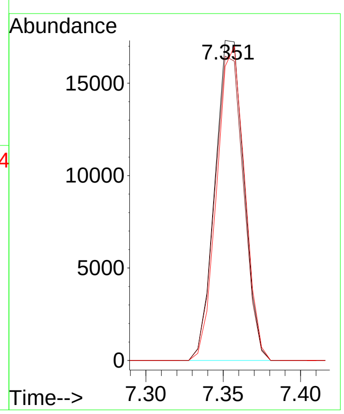




#18
Hexachloroethane
Concen: 10.598 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:117 Resp: 22530

Ion	Ratio	Lower	Upper
117	100		
119	95.1	74.6	111.8
201	91.9	77.2	115.8

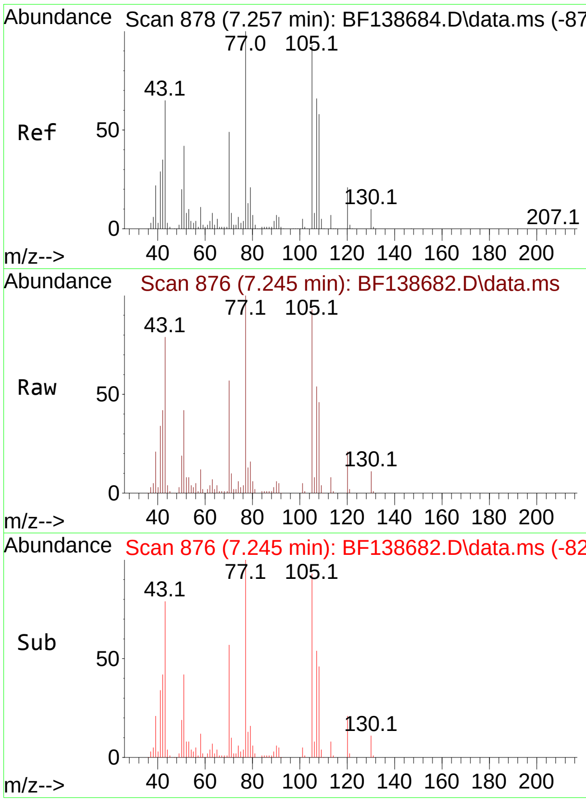


ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

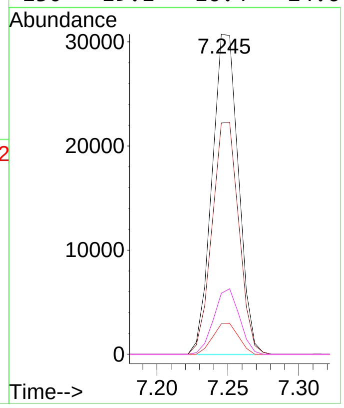
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

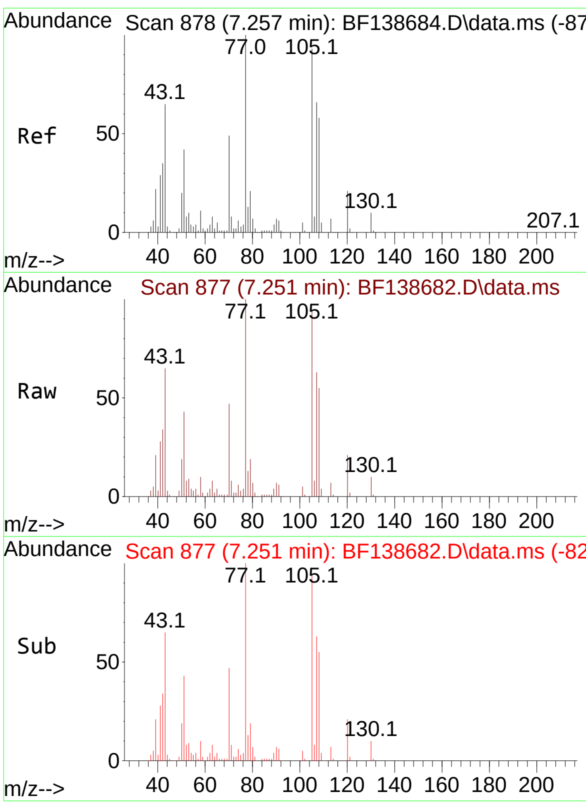


#19
n-Nitroso-di-n-propylamine
Concen: 10.345 ng
RT: 7.245 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 70 Resp: 3986

Ion	Ratio	Lower	Upper
70	100		
42	72.3	57.4	86.0
101	9.5	7.5	11.3
130	19.1	16.4	24.6

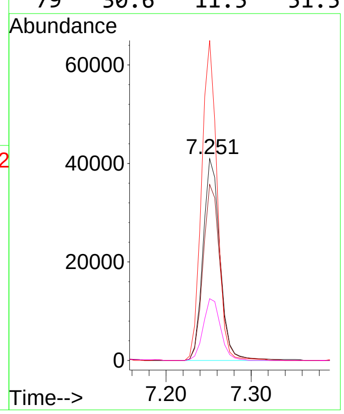


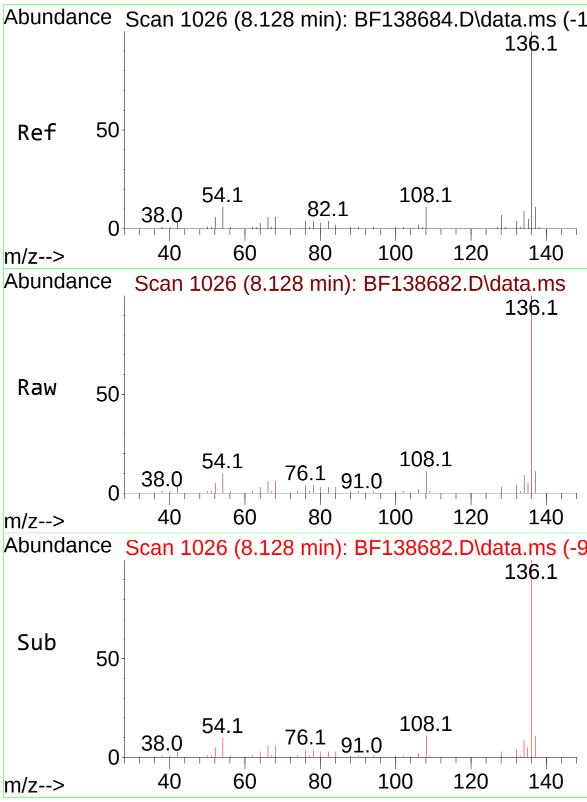


#20
3+4-Methylphenols
Concen: 10.760 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:107 Resp: 56989

Ion	Ratio	Lower	Upper
107	100		
108	87.2	68.2	108.2
77	158.6	132.1	172.1
79	30.6	11.5	51.5





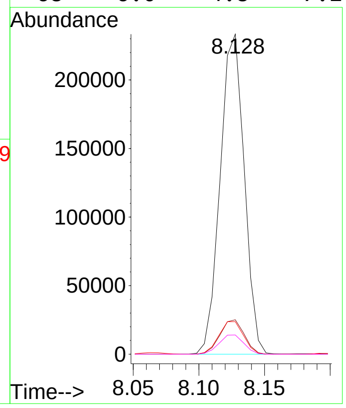
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

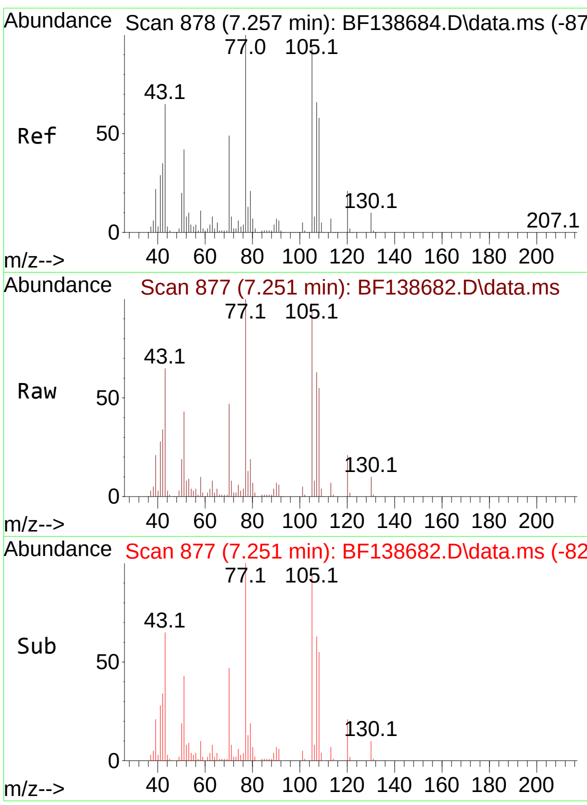
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 29790

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	10.1	8.6	12.8
68	6.0	4.8	7.2

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

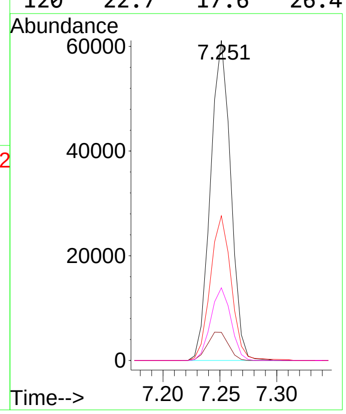




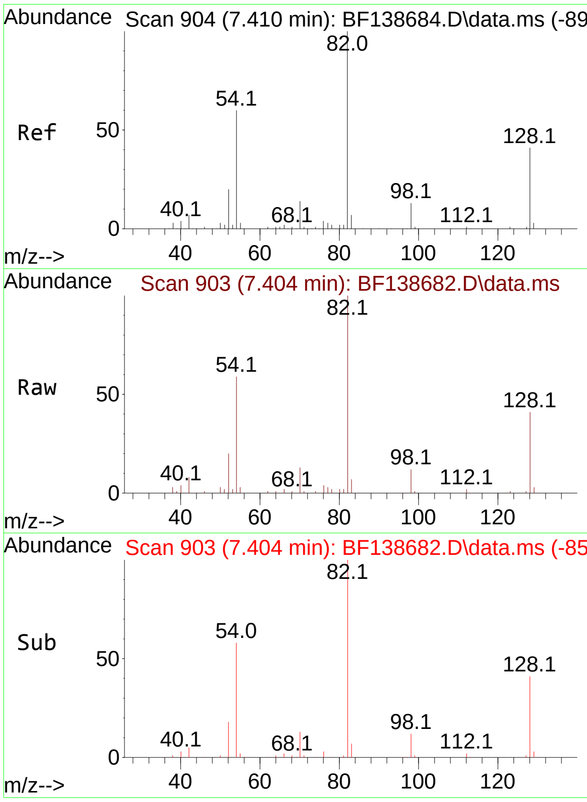
#22
Acetophenone
Concen: 10.404 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:105 Resp: 75892

Ion	Ratio	Lower	Upper
105	100		
71	8.8	7.2	10.8
51	45.2	35.9	53.9
120	22.7	17.6	26.4



ICAL Form



#23
Nitrobenzene-d5
Concen: 20.350 ng
RT: 7.404 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

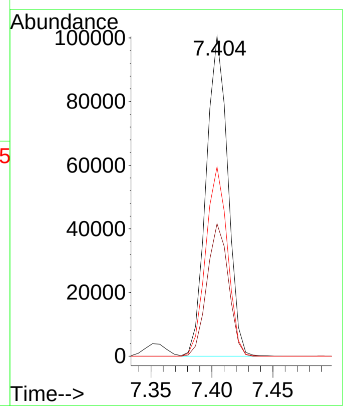
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

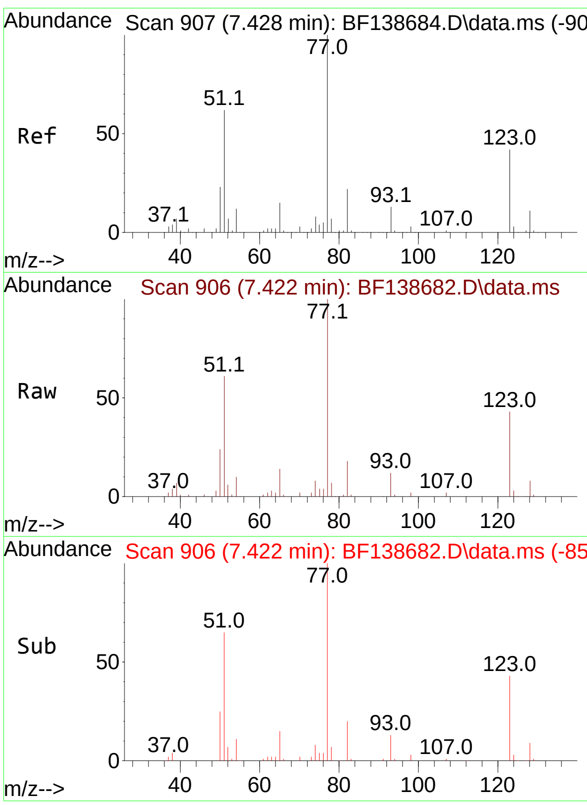
Tgt Ion: 82 Resp: 12399

Ion	Ratio	Lower	Upper
82	100		
128	41.4	32.8	49.2
54	59.1	48.3	72.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

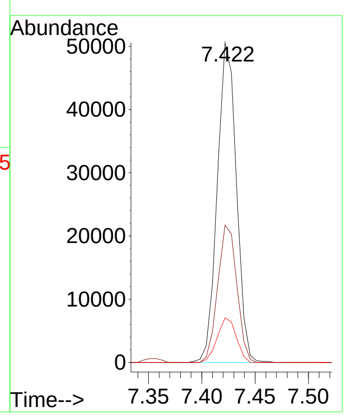




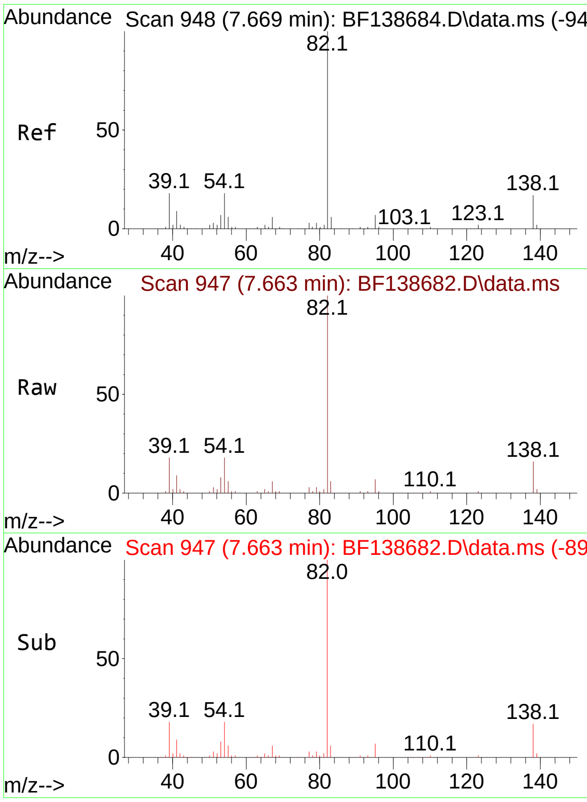
#24
Nitrobenzene
Concen: 10.164 ng
RT: 7.422 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 77 Resp: 63020

Ion	Ratio	Lower	Upper
77	100		
123	42.9	33.3	49.9
65	14.0	11.9	17.9



ICAL Form



#25
Isophorone
Concen: 10.167 ng
RT: 7.663 min   Scan# 94
Delta R.T.   -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024   13:56

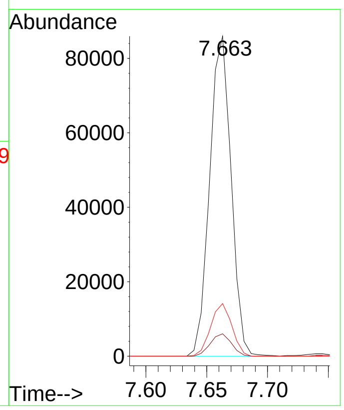
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

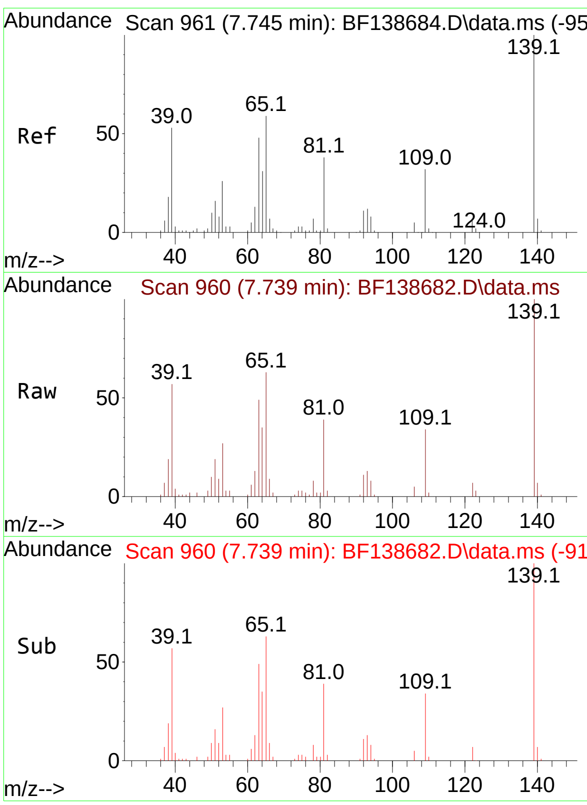
Manual Integrations APPROVED

Reviewed By :Yogesh Patel   07/31/2024
Supervised By :mohammad ahmed   07/31/2024

Tgt Ion: 82 Resp: 10578

Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.7	8.5
138	16.4	13.7	20.5

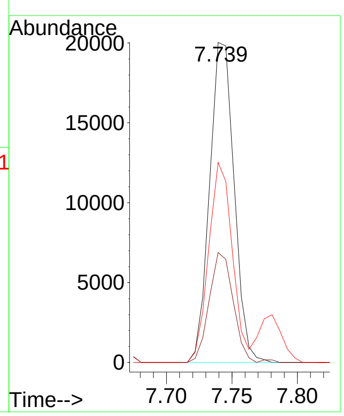




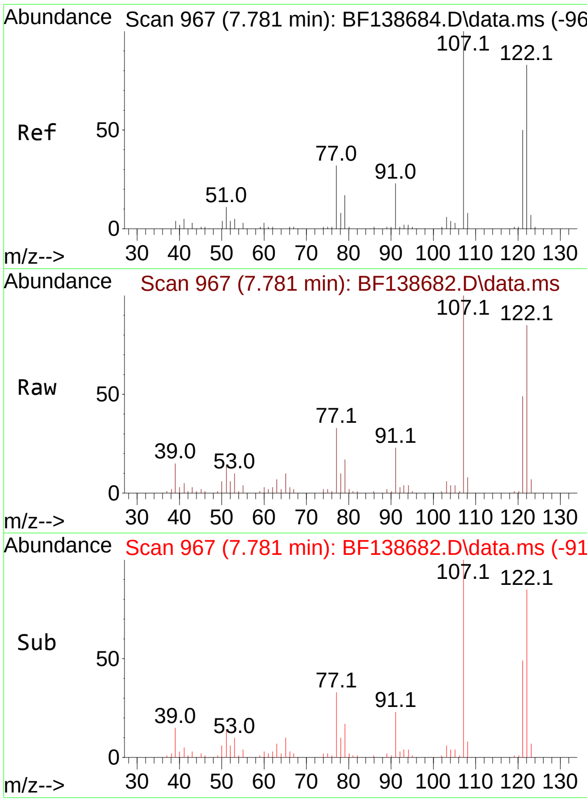
#26
2-Nitrophenol
Concen: 9.803 ng
RT: 7.739 min   Scan# 960
Delta R.T.   -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024   13:56

Tgt Ion:139 Resp: 26149

Ion	Ratio	Lower	Upper
139	100		
109	34.4	25.9	38.9
65	62.5	47.0	70.6



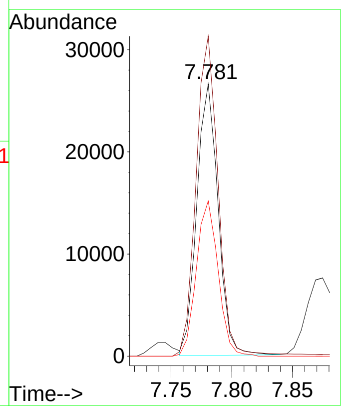
ICAL Form



#27
2,4-Dimethylphenol
Concen: 10.147 ng
RT: 7.781 min Scan# 96
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

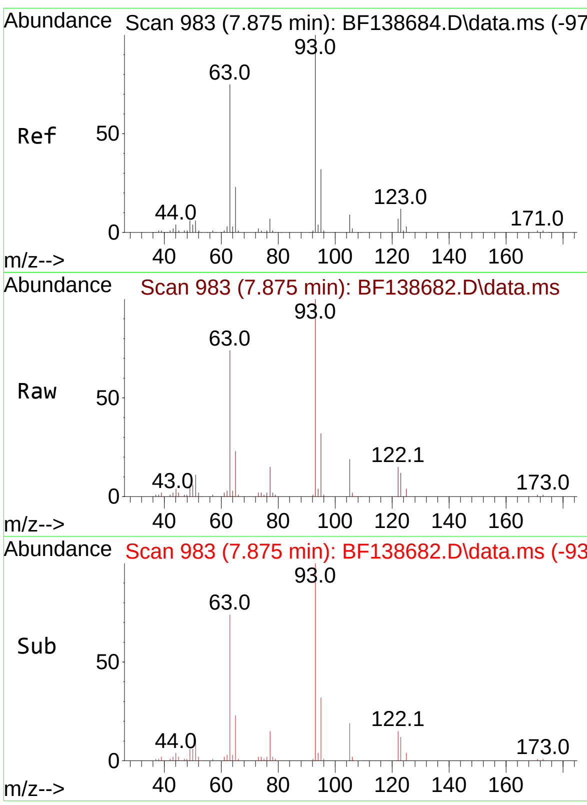
Tgt Ion:122 Resp: 3238

Ion	Ratio	Lower	Upper
122	100		
107	117.6	95.0	142.6
121	57.1	47.3	70.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

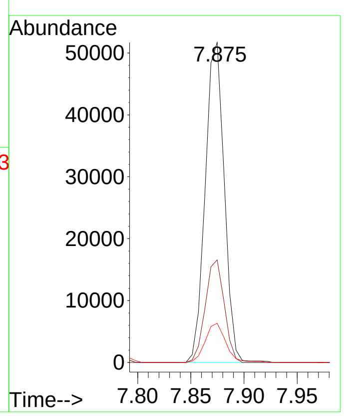
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024



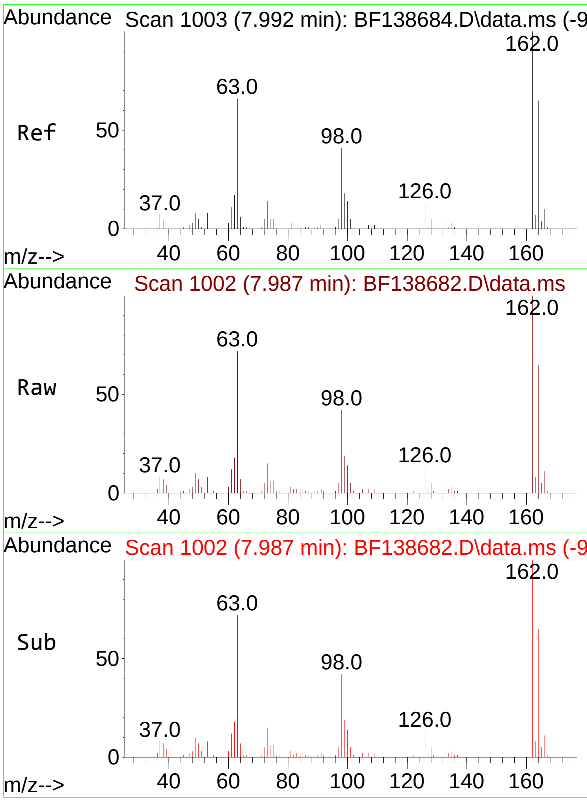
#28
bis(2-Chloroethoxy)methane
Concen: 10.191 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 93 Resp: 64569

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	12.3	9.4	14.0



ICAL Form



#29
2,4-Dichlorophenol
Concen: 10.031 ng
RT: 7.987 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

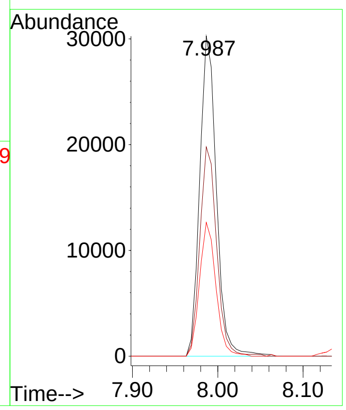
Tgt Ion:162 Resp: 4113

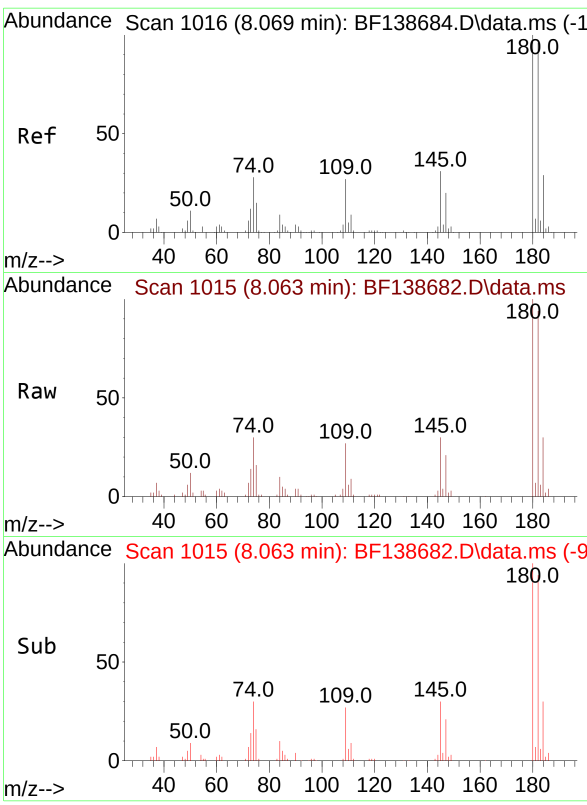
Ion	Ratio	Lower	Upper
162	100		
164	65.4	44.7	84.7
98	41.8	20.8	60.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

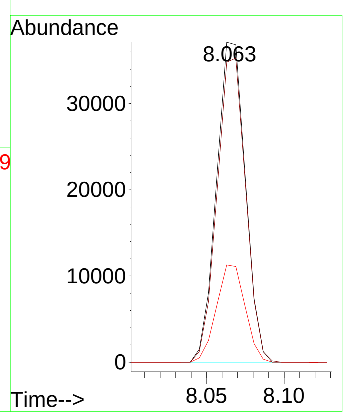




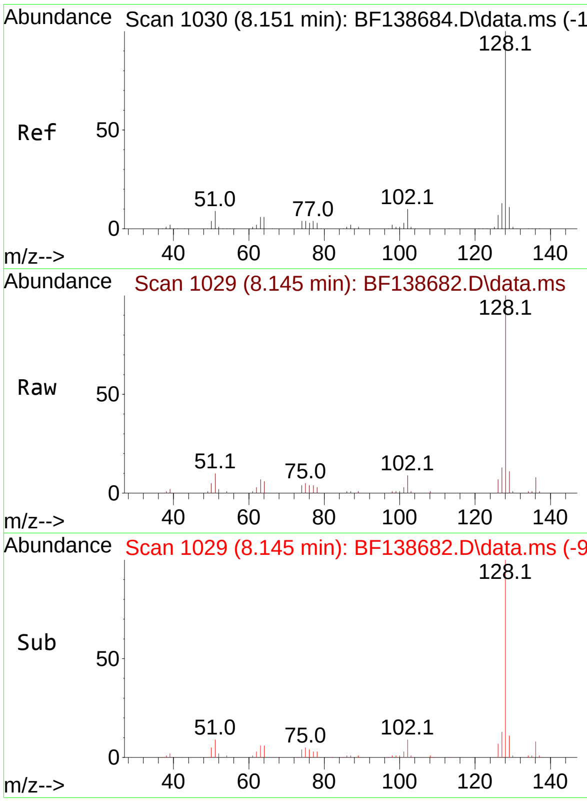
#30
1,2,4-Trichlorobenzene
Concen: 10.199 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:180 Resp: 48272

Ion	Ratio	Lower	Upper
180	100		
182	93.7	76.9	115.3
145	30.4	25.0	37.4



ICAL Form



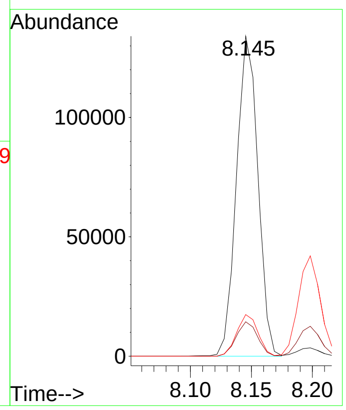
#31
Naphthalene
Concen: 10.469 ng
RT: 8.145 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

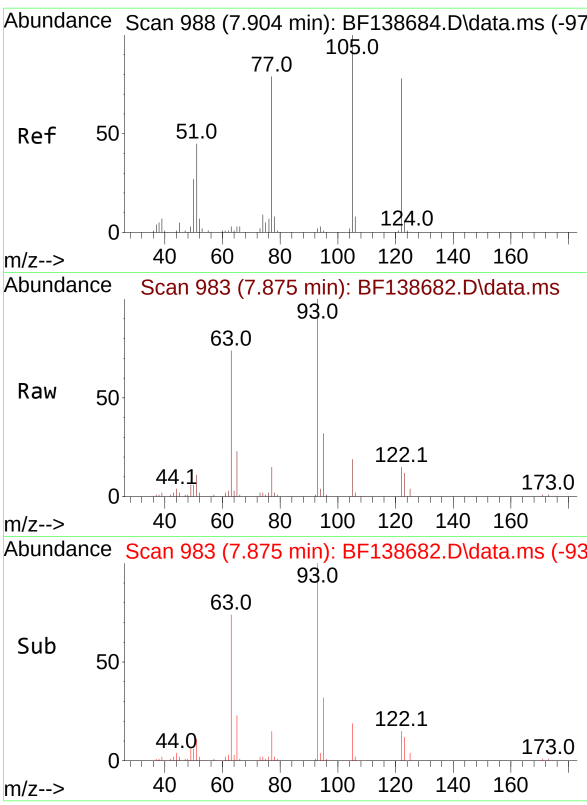
Tgt Ion:128 Resp: 16416

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	13.0	10.6	16.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

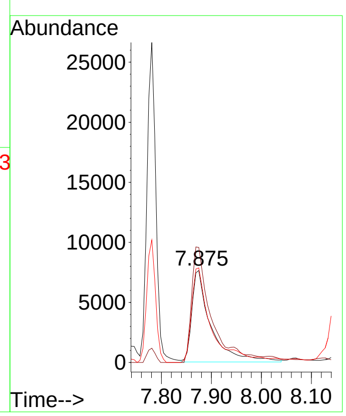




#32
Benzoic acid
Concen: 8.102 ng m
RT: 7.875 min Scan# 983
Delta R.T. -0.029 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:122 Resp: 20318

Ion	Ratio	Lower	Upper
122	100		
105	125.2	106.7	146.7
77	102.9	81.1	121.1

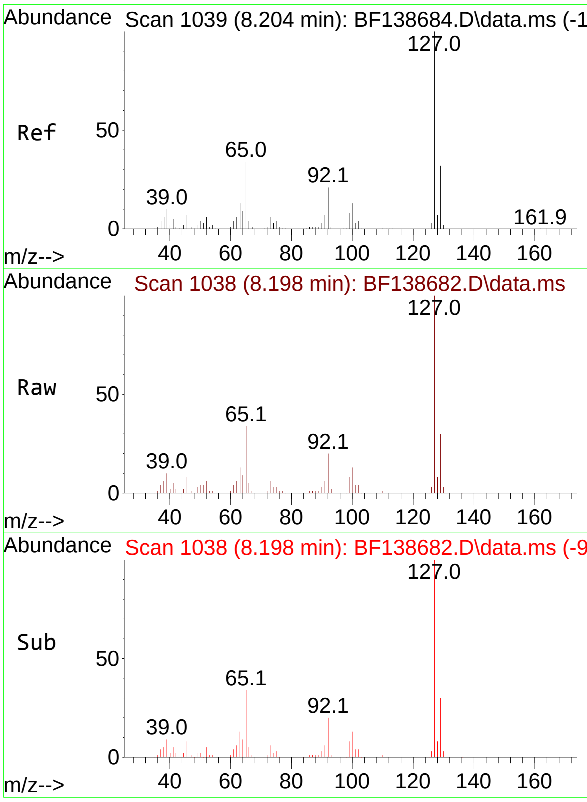


ICAL Form

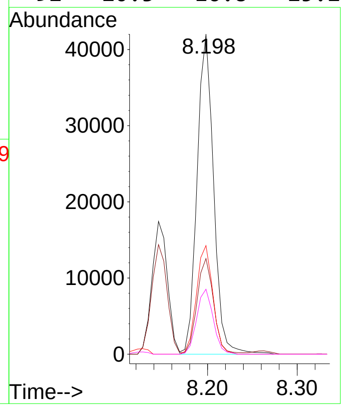
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

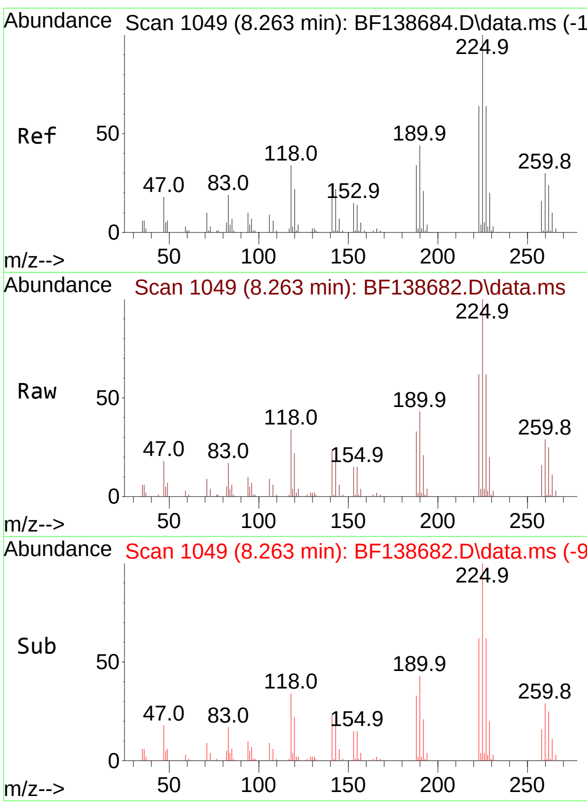
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

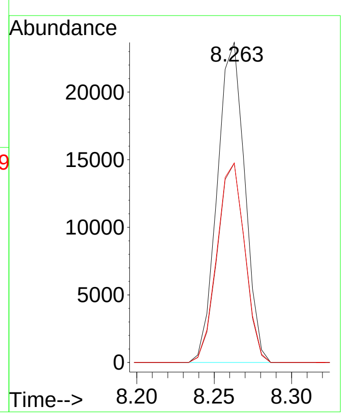



```
#33
4-Chloroaniline
Concen:   10.260 ng
RT:   8.198 min  Scan# 10
Delta R.T.  -0.006 min
Lab File:   BF138682.D
Acq: 30 Jul 2024  13:56

Tgt Ion:127 Resp:   5400
Ion  Ratio  Lower  Upper
127  100
129   29.9   25.9   38.9
 65   33.9   27.6   41.4
 92   20.3   16.8   25.2
```

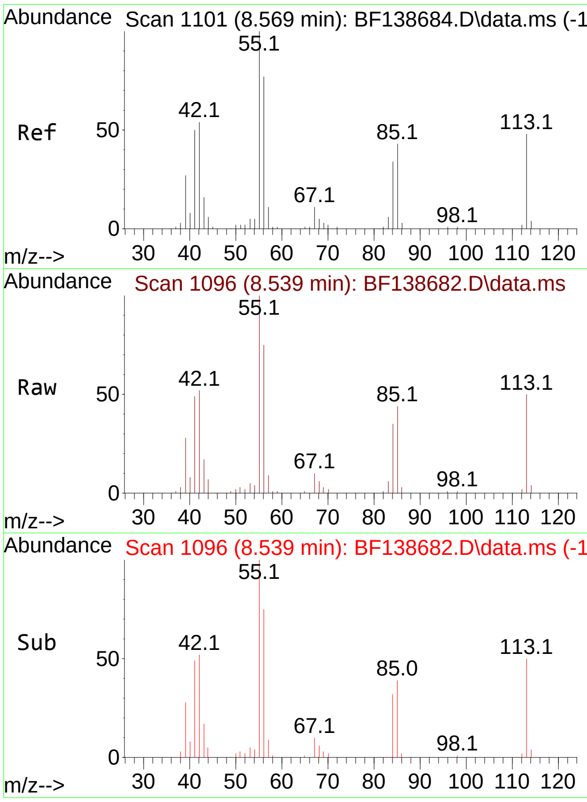





```
#34
Hexachlorobutadiene
Concen:   10.224 ng
RT:   8.263 min  Scan# 1049
Delta R.T.  -0.000 min
Lab File:   BF138682.D
Acq: 30 Jul 2024  13:56

Tgt Ion:225 Resp:   29309
Ion  Ratio  Lower  Upper
225  100
223   62.3   51.2   76.8
227   62.4   51.1   76.7
```



ICAL Form



#35
Caprolactam
Concen: 10.193 ng
RT: 8.539 min   Scan# 1(
Delta R.T.   -0.029 min
Lab File: BF138682.D
Acq: 30 Jul 2024   13:56

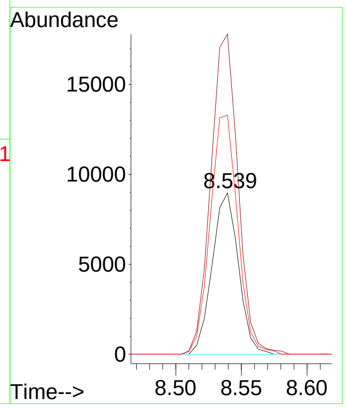
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

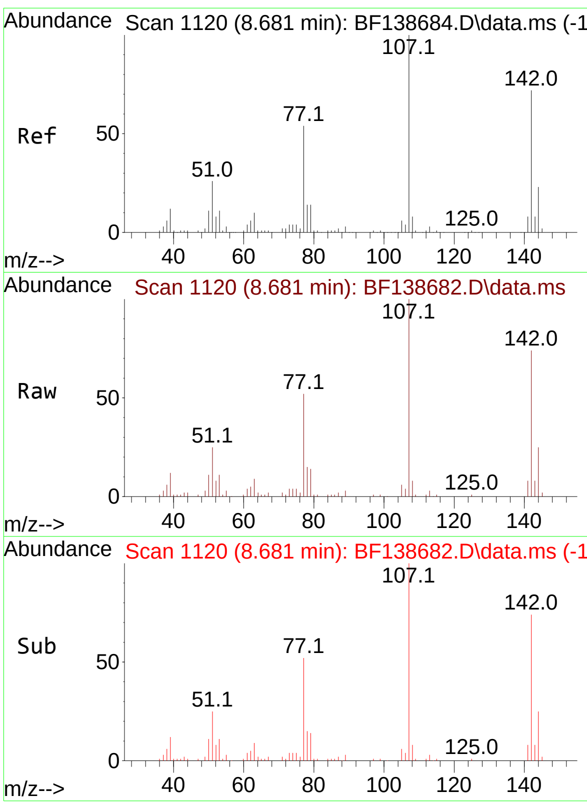
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel   07/31/2024
Supervised By :mohammad ahmed   07/31/2024

Tgt Ion:113 Resp: 1247(

Ion	Ratio	Lower	Upper
113	100		
55	198.5	186.7	226.7
56	148.2	138.9	178.9

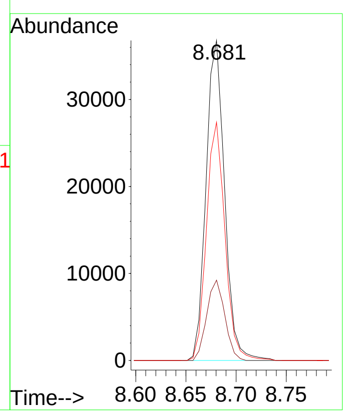




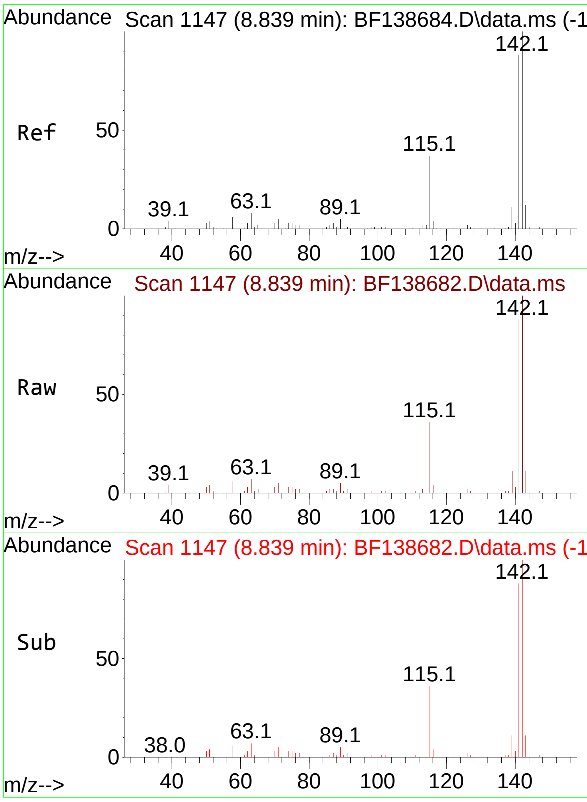
#36
4-Chloro-3-methylphenol
Concen: 10.152 ng
RT: 8.681 min   Scan# 1120
Delta R.T.   -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024   13:56

Tgt Ion:107 Resp: 47584

Ion	Ratio	Lower	Upper
107	100		
144	25.1	18.2	27.2
142	74.5	57.4	86.2



ICAL Form



#37
2-Methylnaphthalene
Concen: 10.511 ng
RT: 8.839 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

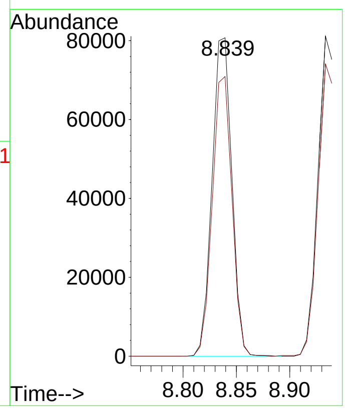
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

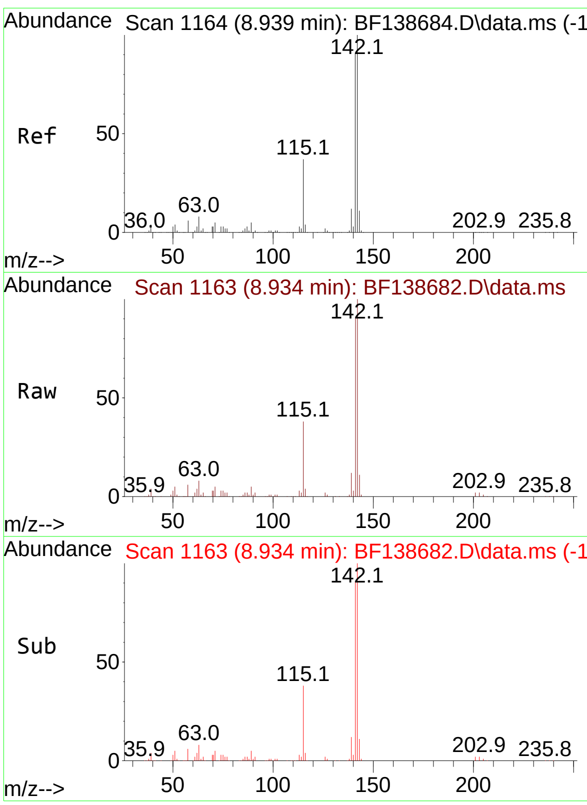
Tgt Ion:142 Resp: 10409

Ion	Ratio	Lower	Upper
142	100		
141	87.8	70.8	106.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

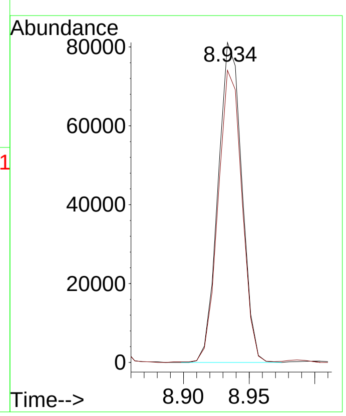




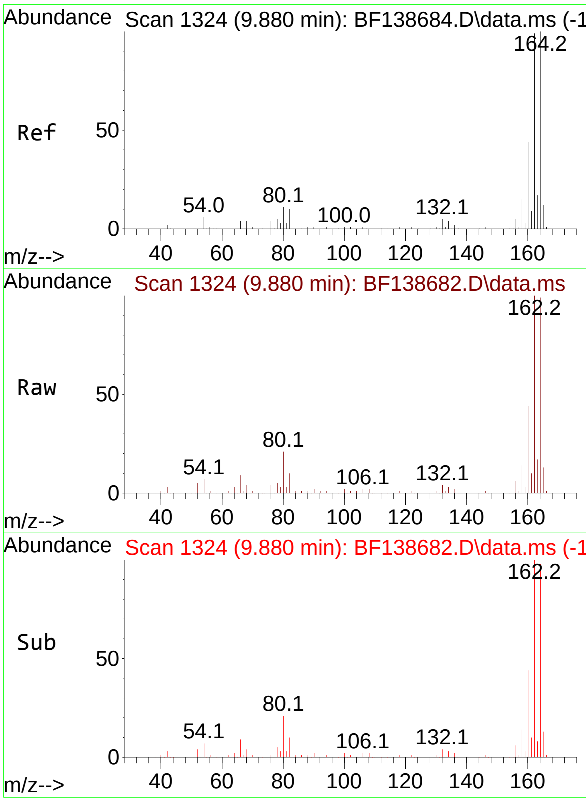
#38
1-Methylnaphthalene
Concen: 10.521 ng
RT: 8.934 min Scan# 1163
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:142 Resp: 102100

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.1	109.7



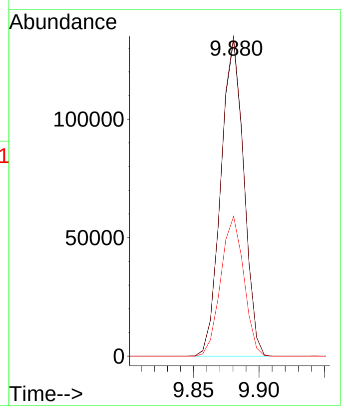
ICAL Form



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min   Scan# 1
Delta R.T.   0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024   13:56

Tgt Ion:164 Resp: 16224

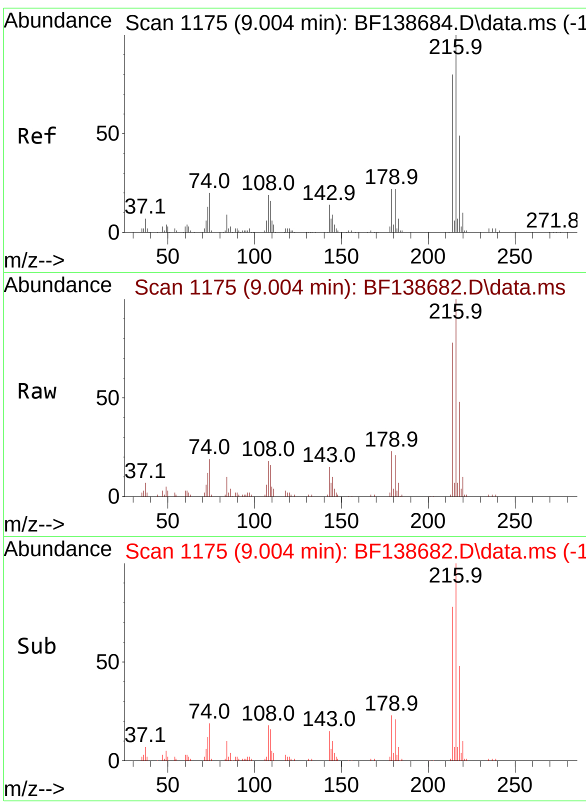
Ion	Ratio	Lower	Upper
164	100		
162	101.3	79.4	119.0
160	44.3	35.1	52.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

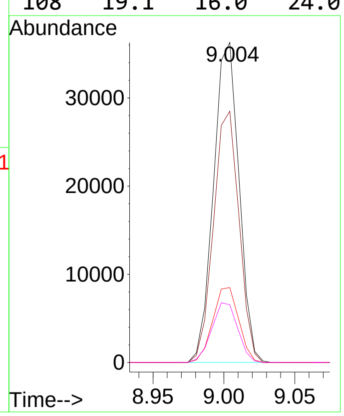
Reviewed By :Yogesh Patel   07/31/2024
Supervised By :mohammad ahmed   07/31/2024

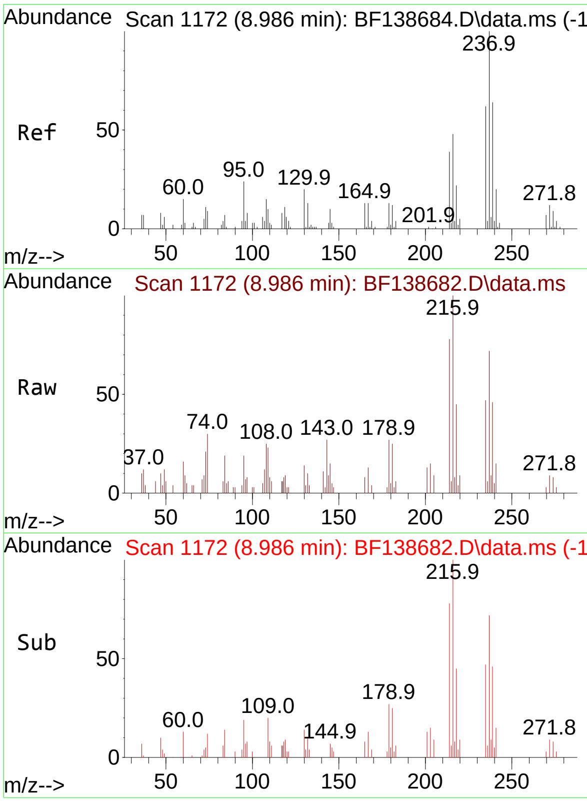


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.082 ng
RT: 9.004 min   Scan# 1175
Delta R.T.   0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024   13:56

Tgt Ion:216 Resp: 45439

Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.9	95.9
179	23.9	17.8	26.6
108	19.1	16.0	24.0





#41
Hexachlorocyclopentadiene
Concen: 10.915 ng
RT: 8.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

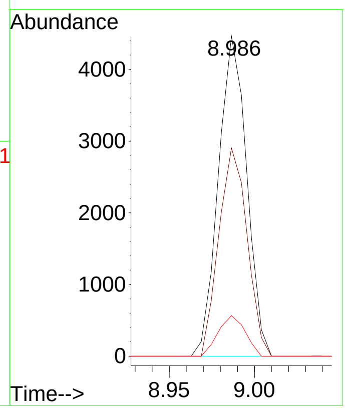
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

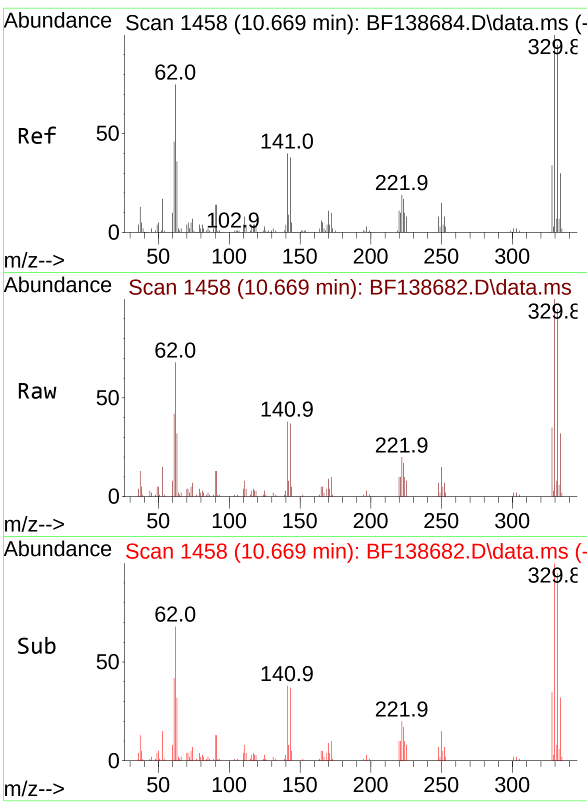
Tgt Ion:237 Resp: 516

Ion	Ratio	Lower	Upper
237	100		
235	65.1	41.8	81.8
272	12.6	0.0	32.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

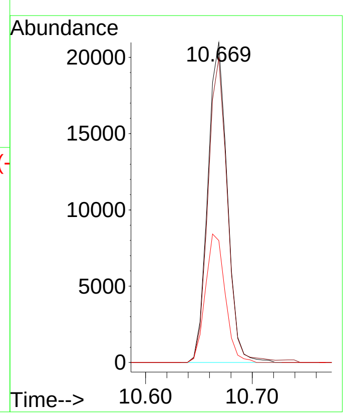




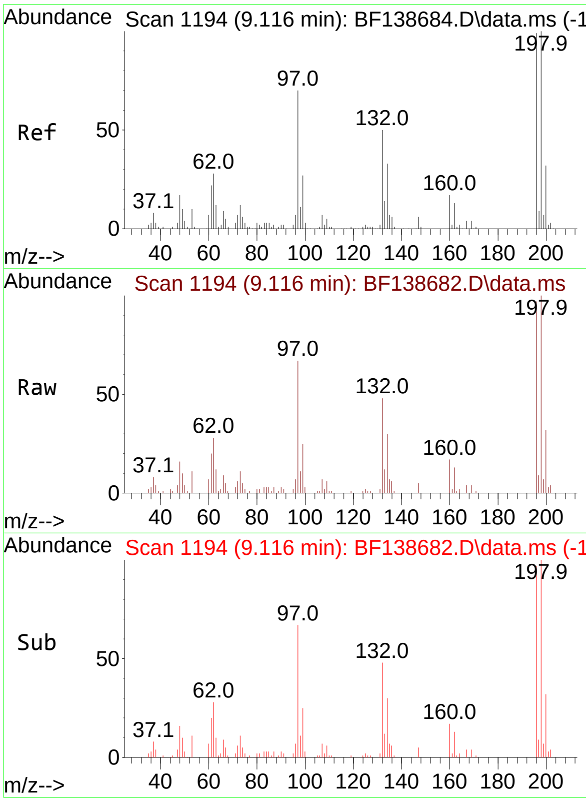
#42
2,4,6-Tribromophenol
Concen: 20.011 ng
RT: 10.669 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:330 Resp: 26595

Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.4	114.6
141	41.0	31.1	46.7



ICAL Form



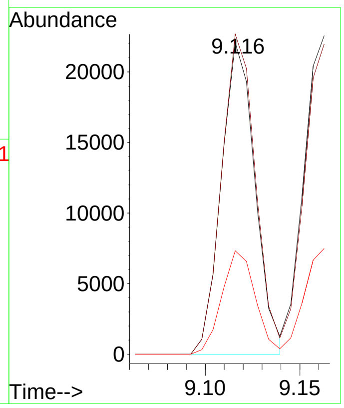
#43
2,4,6-Trichlorophenol
Concen: 9.985 ng
RT: 9.116 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

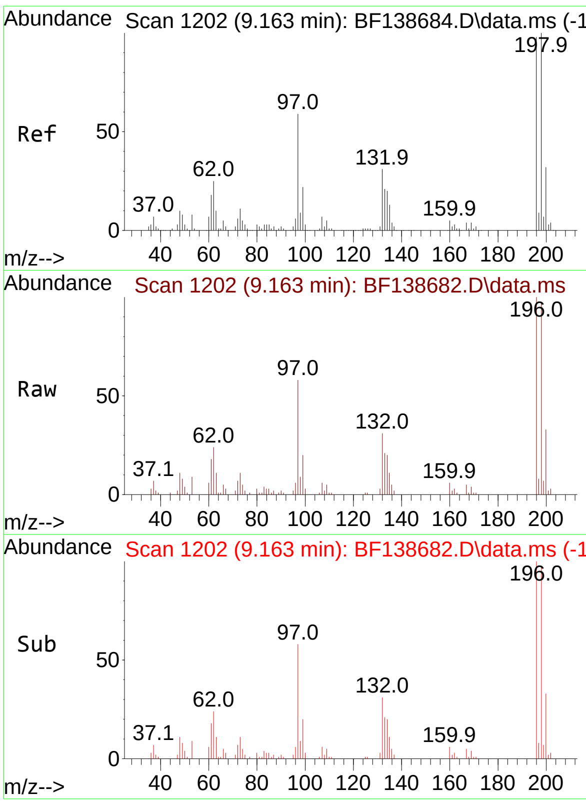
Tgt Ion:196 Resp: 27439

Ion	Ratio	Lower	Upper
196	100		
198	102.7	80.5	120.7
200	33.2	25.9	38.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

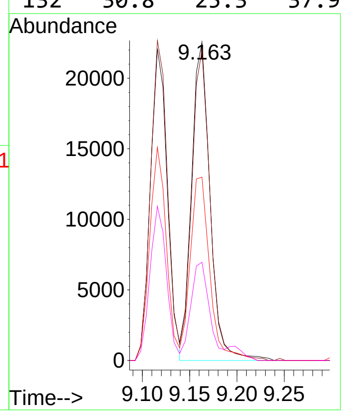


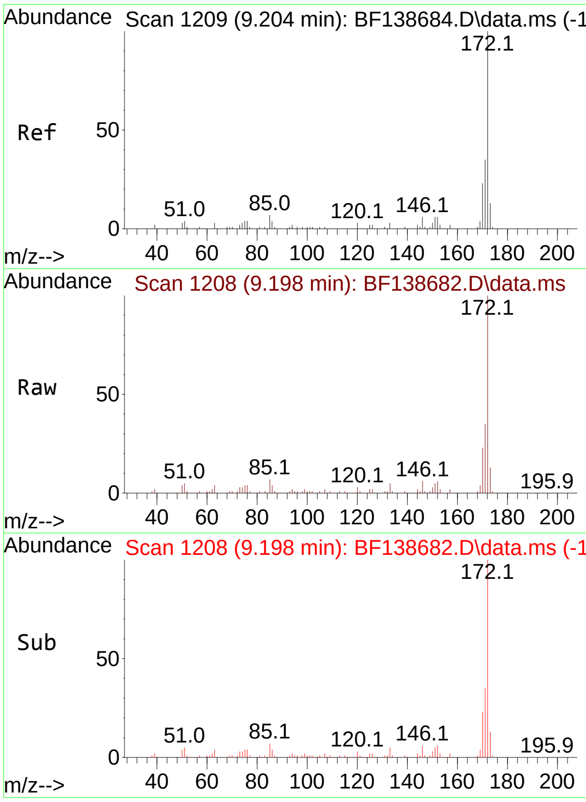


#44
2,4,5-Trichlorophenol
Concen: 10.247 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:196 Resp: 30782

Ion	Ratio	Lower	Upper
196	100		
198	97.4	81.2	121.8
97	57.6	47.8	71.6
132	30.8	25.3	37.9





#45
2-Fluorobiphenyl
Concen: 21.392 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

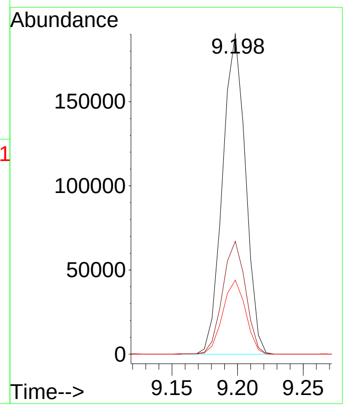
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

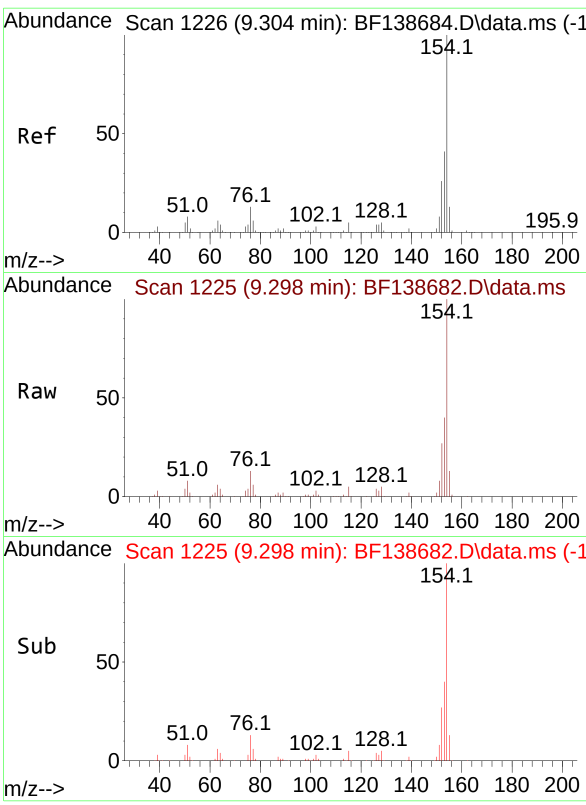
Tgt Ion:172 Resp: 231000

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.3	42.5
170	23.2	18.8	28.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

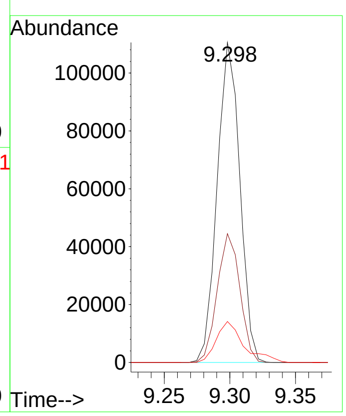




#46
1,1'-Biphenyl
Concen: 10.441 ng
RT: 9.298 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:154 Resp: 132668

Ion	Ratio	Lower	Upper
154	100		
153	40.2	20.8	60.8
76	12.8	0.0	32.8

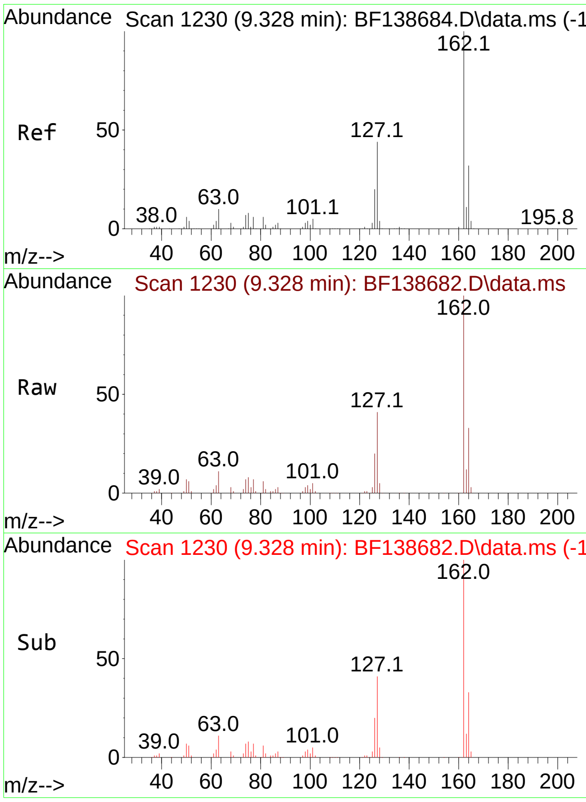


ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

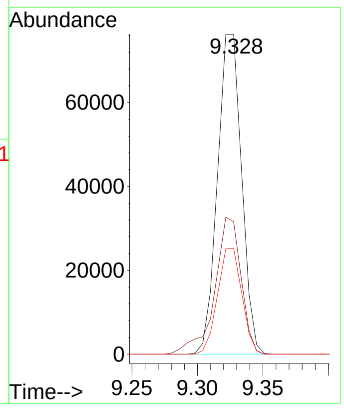
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

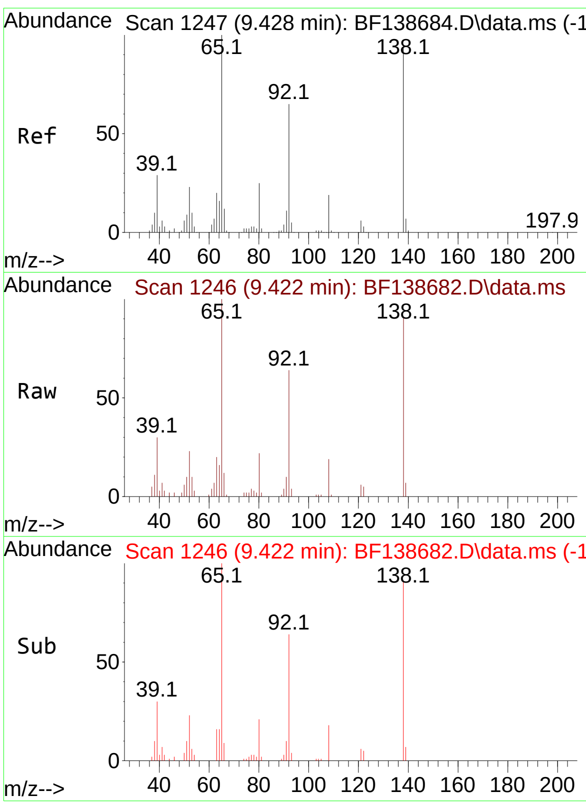


#47
2-Chloronaphthalene
Concen: 10.354 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:162 Resp: 9785

Ion	Ratio	Lower	Upper
162	100		
127	41.4	35.4	53.2
164	33.1	25.6	38.4

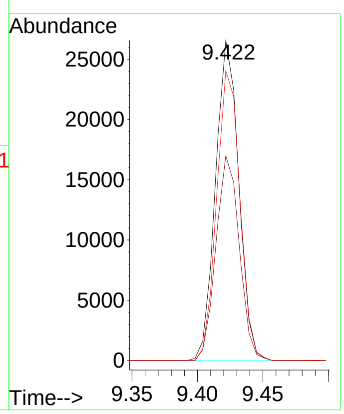


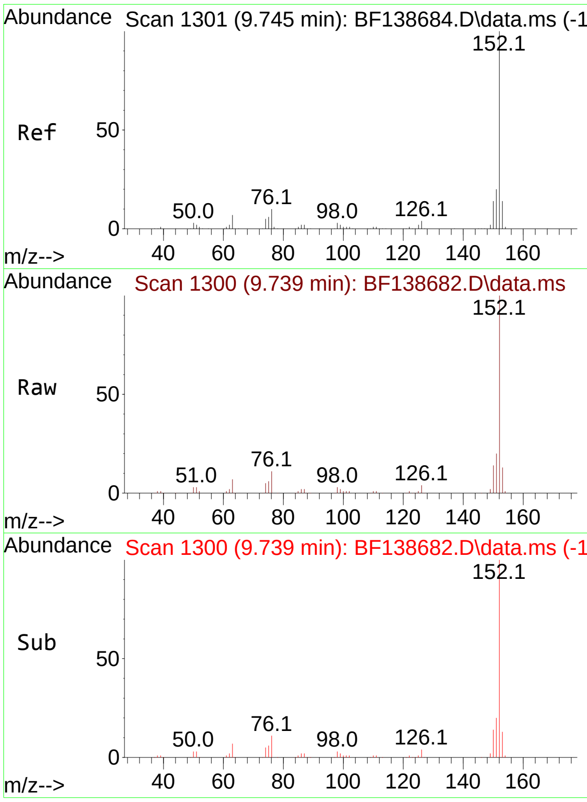


#48
2-Nitroaniline
Concen: 10.216 ng
RT: 9.422 min Scan# 1246
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 65 Resp: 32731

Ion	Ratio	Lower	Upper
65	100		
92	63.9	52.0	78.0
138	90.5	76.2	114.4





#49
Acenaphthylene
Concen: 10.552 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

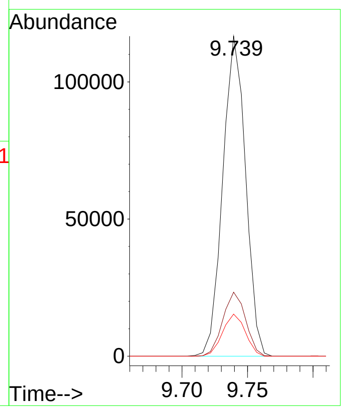
Tgt Ion:152 Resp: 14143

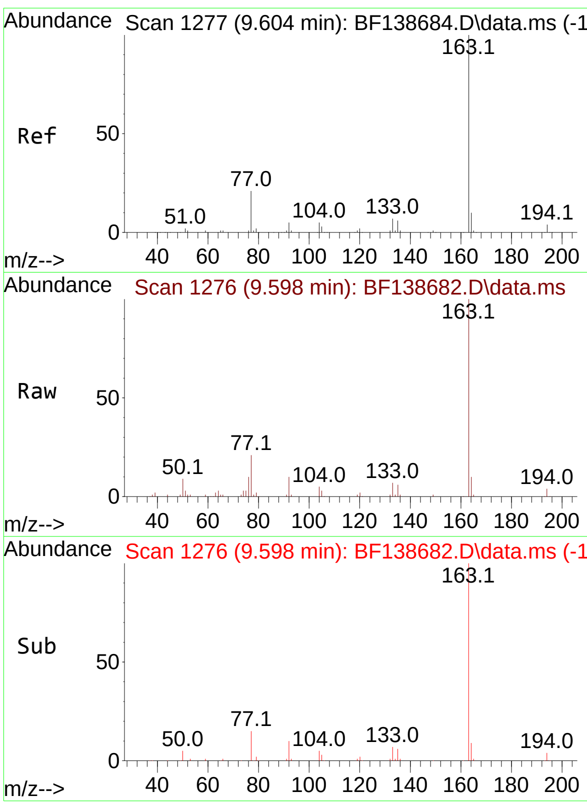
Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	13.2	11.0	16.4

Instrument : BNA_F
ClientSampleId : SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

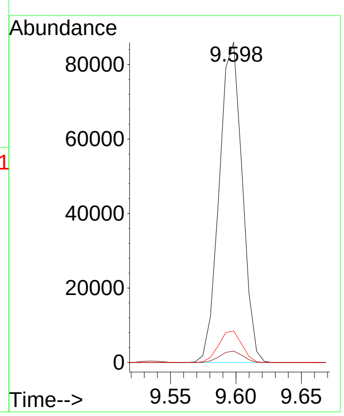


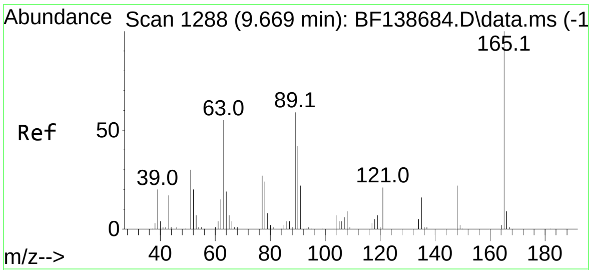


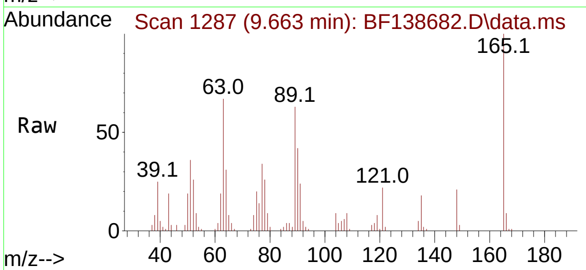
#50
Dimethylphthalate
Concen: 10.139 ng
RT: 9.598 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

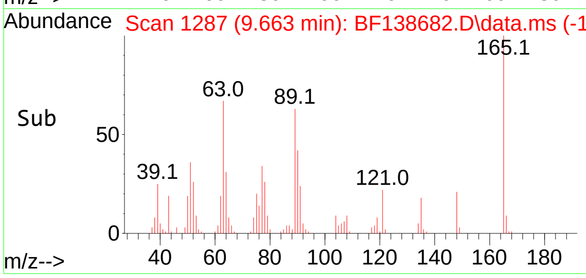
Tgt Ion:163 Resp: 105187

Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.1	4.7
164	9.8	7.8	11.8









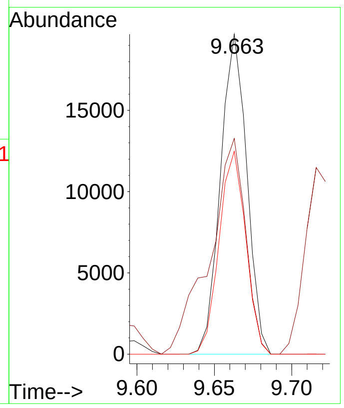
#51
2,6-Dinitrotoluene
Concen: 9.974 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

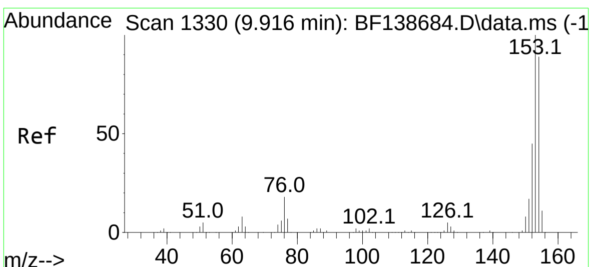
Tgt Ion:165 Resp: 2335

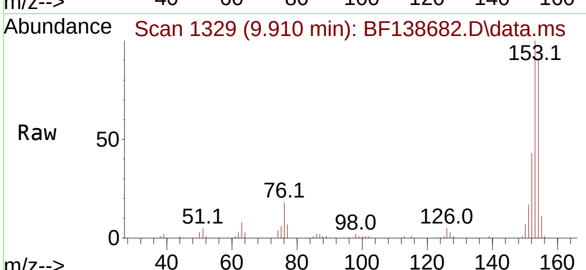
Ion	Ratio	Lower	Upper
165	100		
63	67.4	52.0	78.0
89	63.4	47.0	70.6

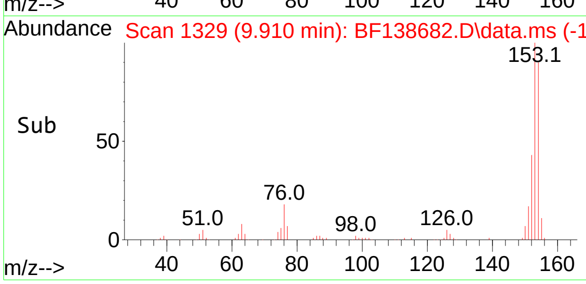
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024





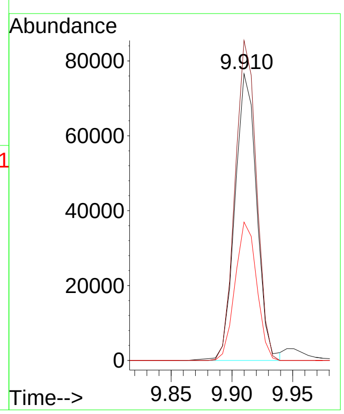




#52
Acenaphthene
Concen: 10.560 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:154 Resp: 95143

Ion	Ratio	Lower	Upper
154	100		
153	111.6	89.9	134.9
152	48.3	40.6	60.8

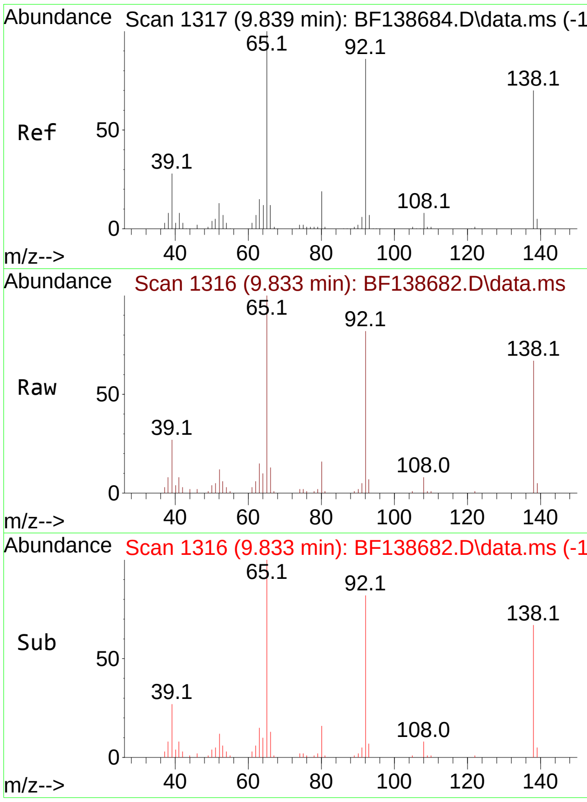


ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

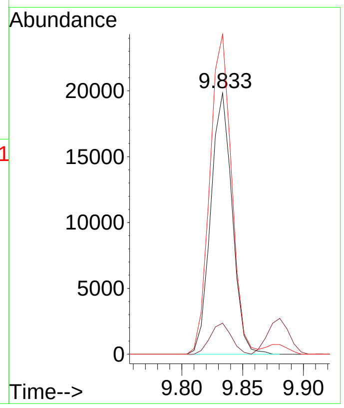
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

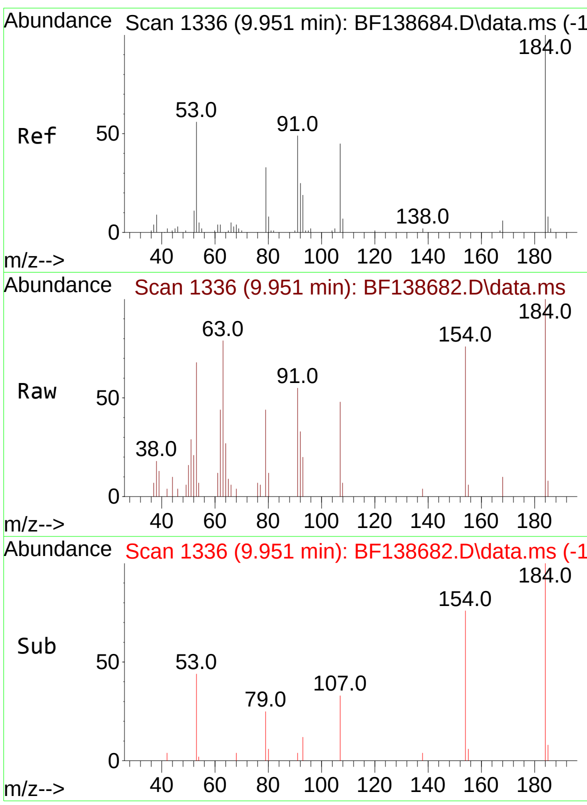


#53
3-Nitroaniline
Concen: 10.062 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:138 Resp: 2435

Ion	Ratio	Lower	Upper
138	100		
108	11.9	9.1	13.7
92	122.5	98.7	148.1

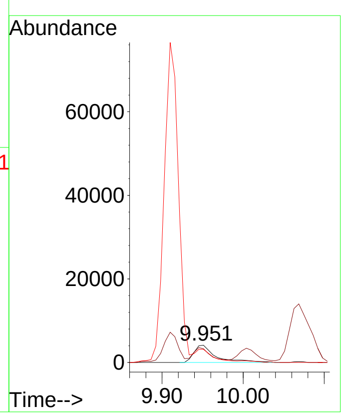


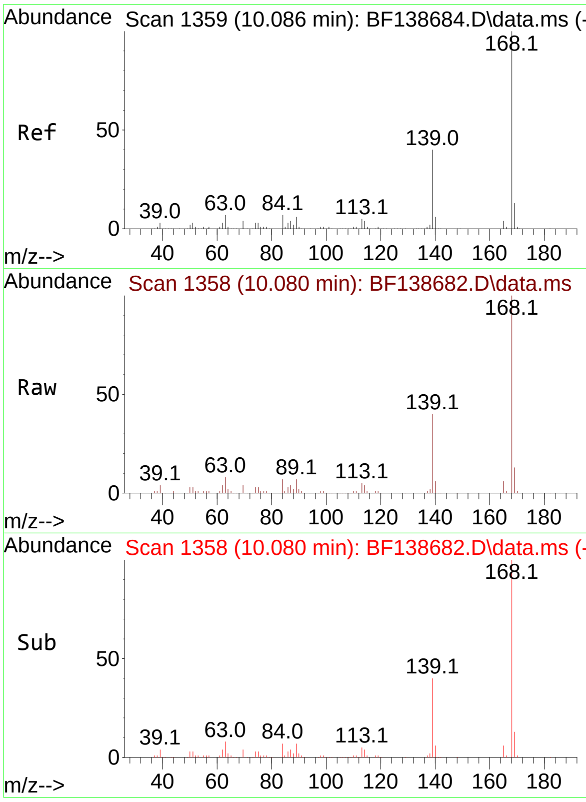


#54
2,4-Dinitrophenol
Concen: 7.337 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:184 Resp: 7908

Ion	Ratio	Lower	Upper
184	100		
63	79.4	57.5	86.3
154	75.8	51.7	77.5





#55
Dibenzofuran
Concen: 10.717 ng
RT: 10.080 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

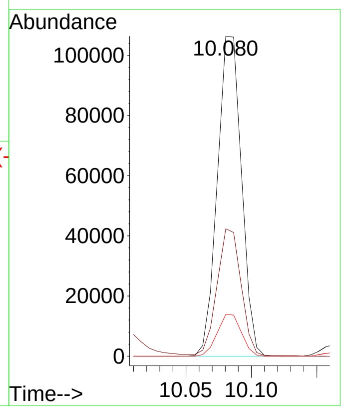
Tgt Ion:168 Resp: 13630

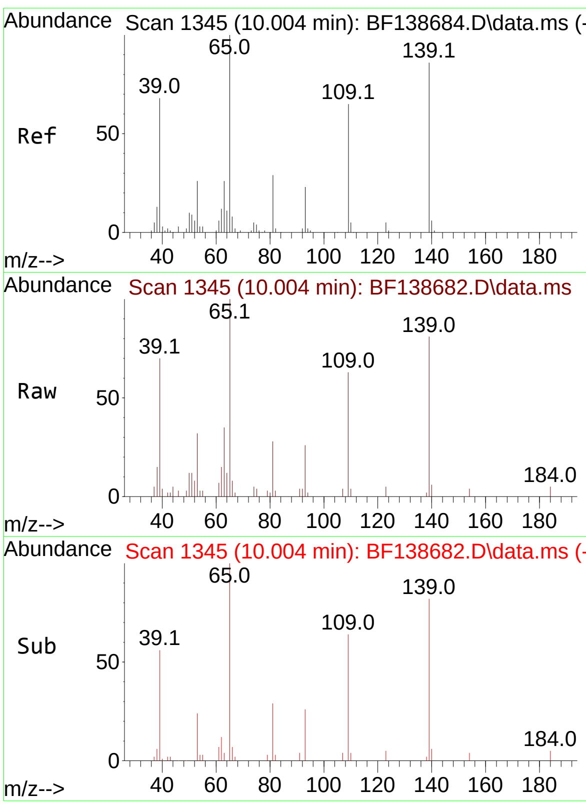
Ion	Ratio	Lower	Upper
168	100		
139	39.8	32.6	49.0
169	13.0	10.7	16.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

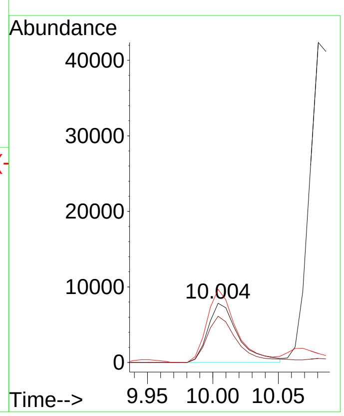


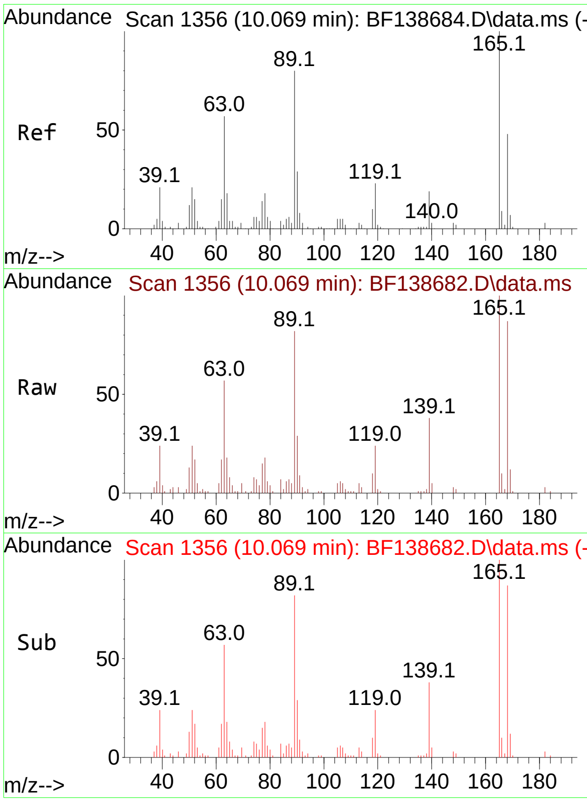


#56
4-Nitrophenol
Concen: 8.687 ng
RT: 10.004 min Scan# 1345
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:139 Resp: 12643

Ion	Ratio	Lower	Upper
139	100		
109	78.0	55.5	95.5
65	123.5	96.7	136.7





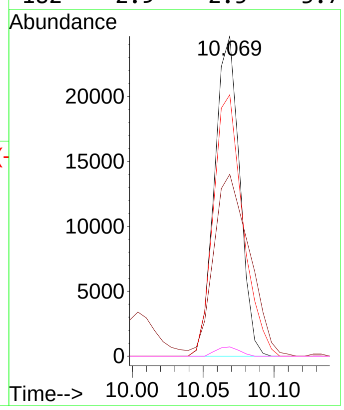
#57
2,4-Dinitrotoluene
Concen: 10.198 ng
RT: 10.069 min Scan# 1356
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

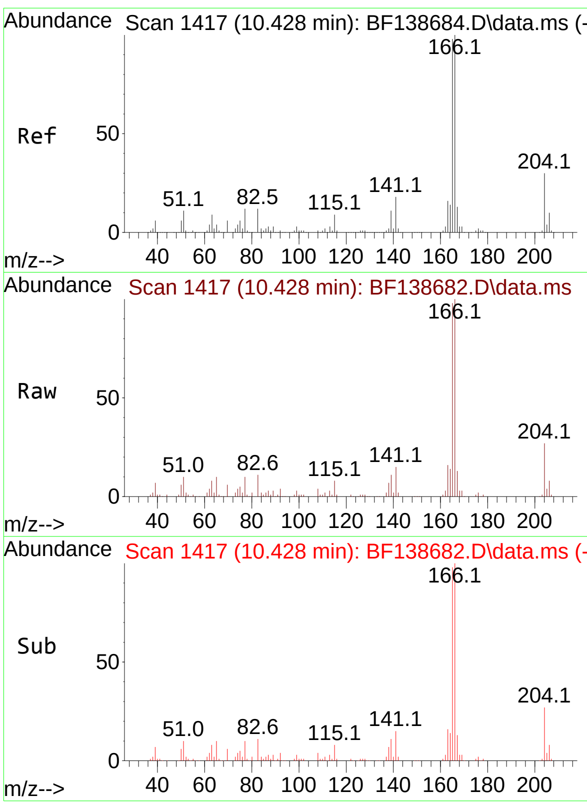
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 30462

Ion	Ratio	Lower	Upper
165	100		
63	56.8	46.3	69.5
89	81.7	64.2	96.4
182	2.9	2.5	3.7

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

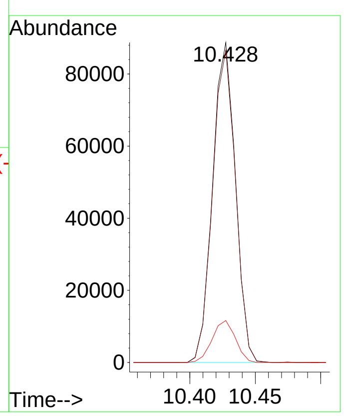




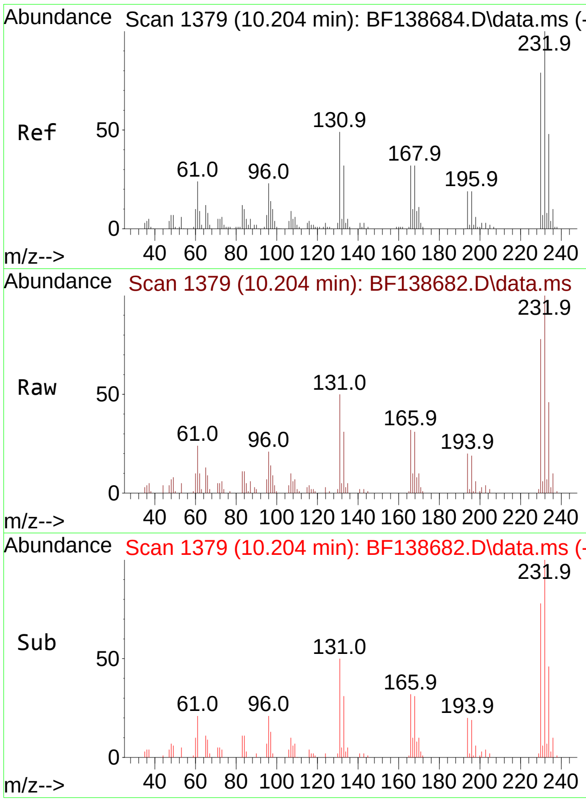
#58
Fluorene
Concen: 10.622 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:166 Resp: 107585

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.4	117.6
167	13.1	10.6	16.0



ICAL Form



#59
2,3,4,6-Tetrachlorophenol
Concen: 9.872 ng
RT: 10.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

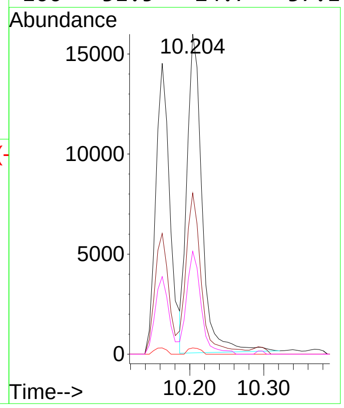
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

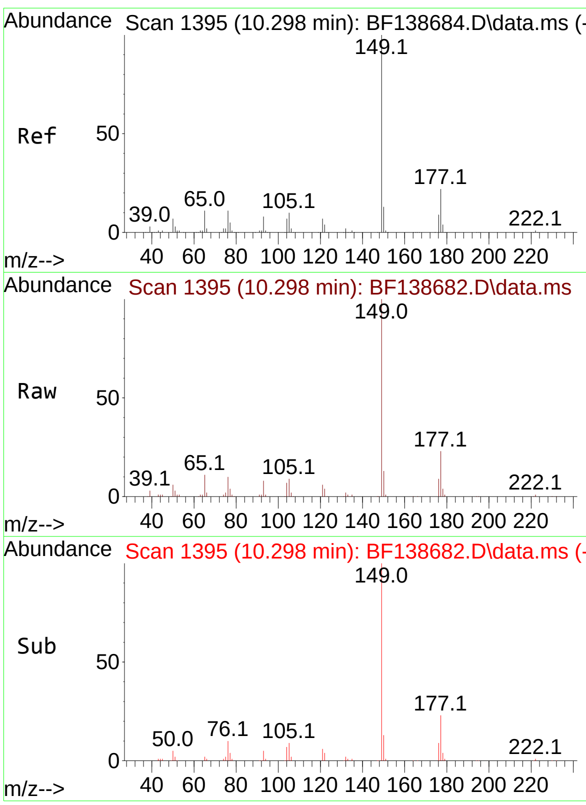
Tgt Ion:232 Resp: 2267

Ion	Ratio	Lower	Upper
232	100		
131	52.2	37.0	55.4
130	1.6	2.0	3.0
166	31.5	24.7	37.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

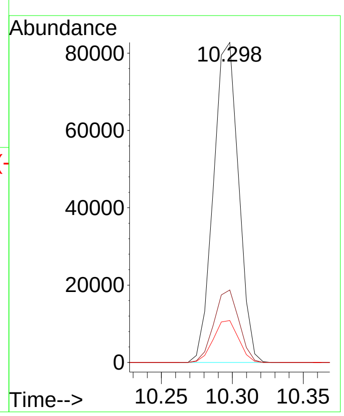




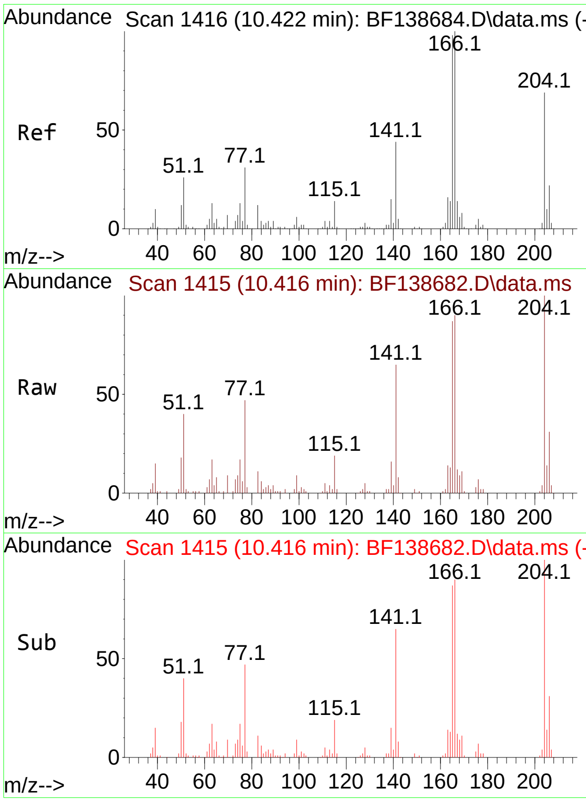
#60
Diethylphthalate
Concen: 10.381 ng
RT: 10.298 min Scan# 1395
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:149 Resp: 102108

Ion	Ratio	Lower	Upper
149	100		
177	22.6	17.8	26.8
150	13.1	10.1	15.1



ICAL Form



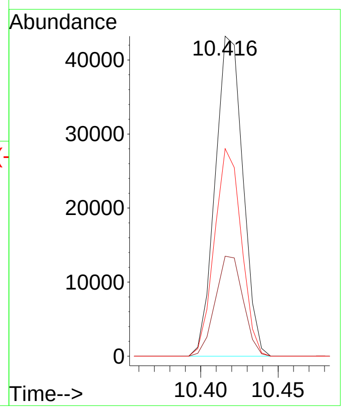
#61
4-Chlorophenyl-phenylether
Concen: 10.814 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

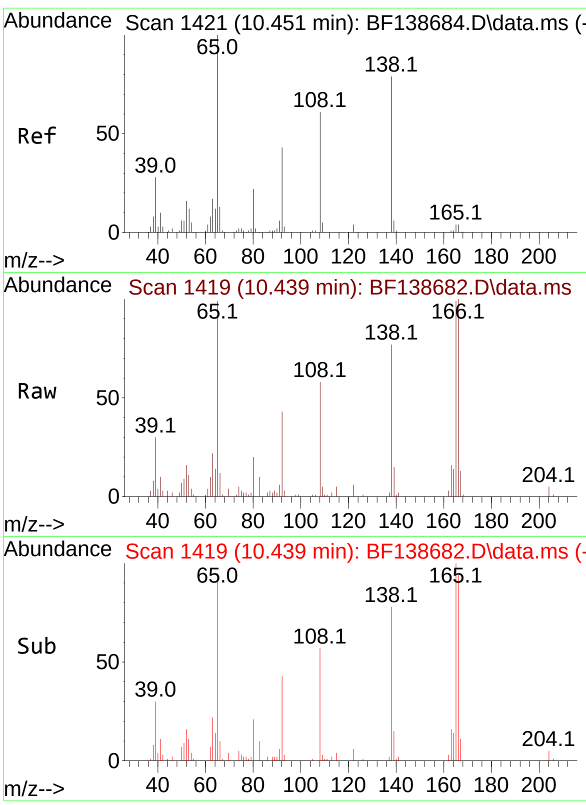
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 5387

Ion	Ratio	Lower	Upper
204	100		
206	31.3	26.1	39.1
141	64.8	51.4	77.0

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

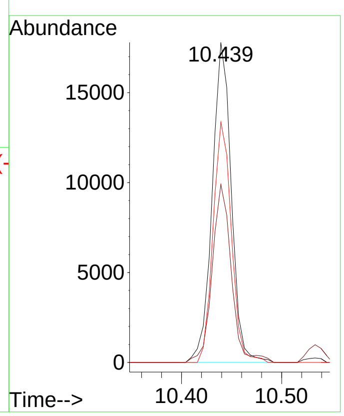




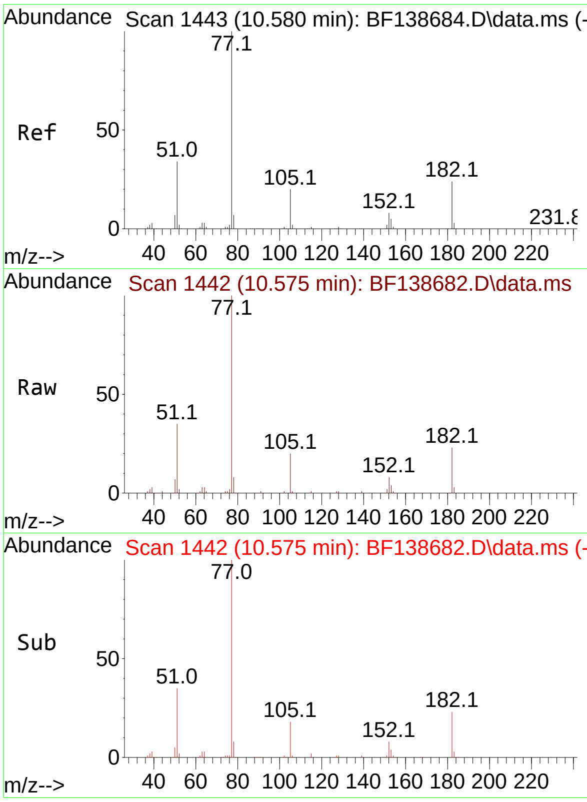
#62
4-Nitroaniline
Concen: 10.284 ng
RT: 10.439 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:138 Resp: 23653

Ion	Ratio	Lower	Upper
138	100		
92	55.6	34.2	74.2
108	75.1	56.2	96.2



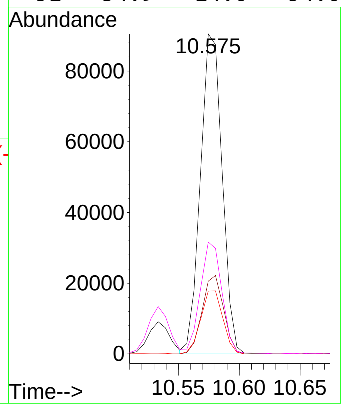
ICAL Form



#63
Azobenzene
Concen: 10.347 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 77 Resp: 11288

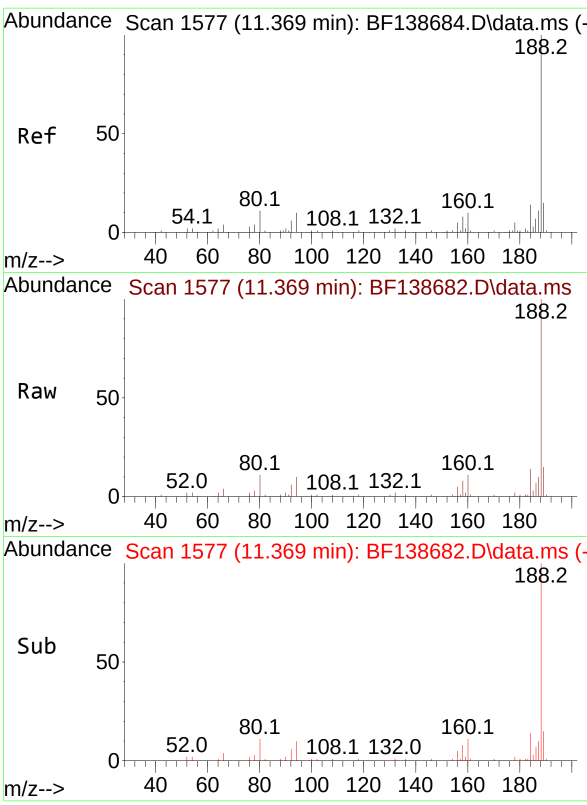
Ion	Ratio	Lower	Upper
77	100		
182	22.7	3.4	43.4
105	19.7	0.2	40.2
51	34.9	14.6	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

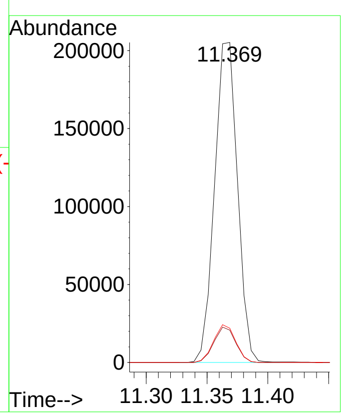
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024



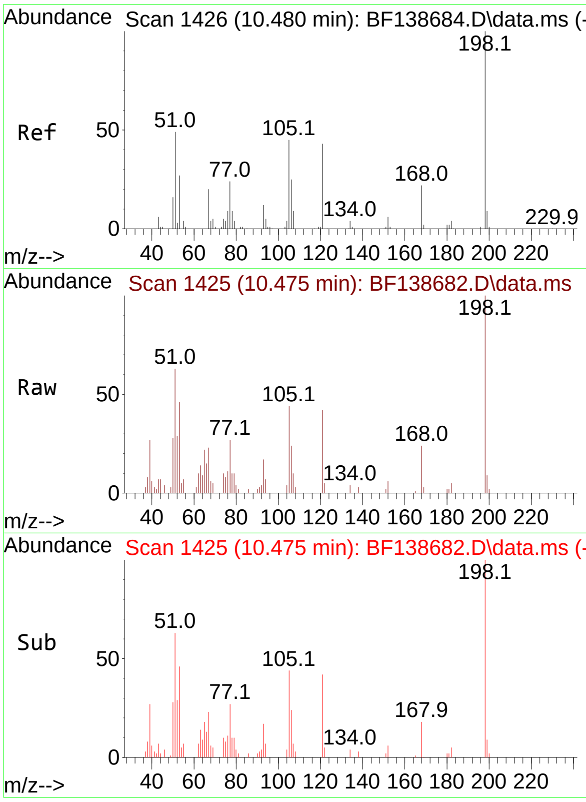
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:188 Resp: 269225

Ion	Ratio	Lower	Upper
188	100		
94	10.1	7.6	11.4
80	10.7	8.6	12.8



ICAL Form



#65
4,6-Dinitro-2-methylphenol
Concen: 8.733 ng
RT: 10.475 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

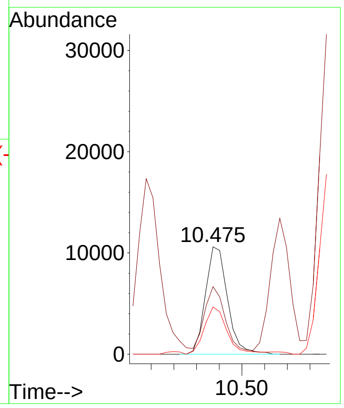
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

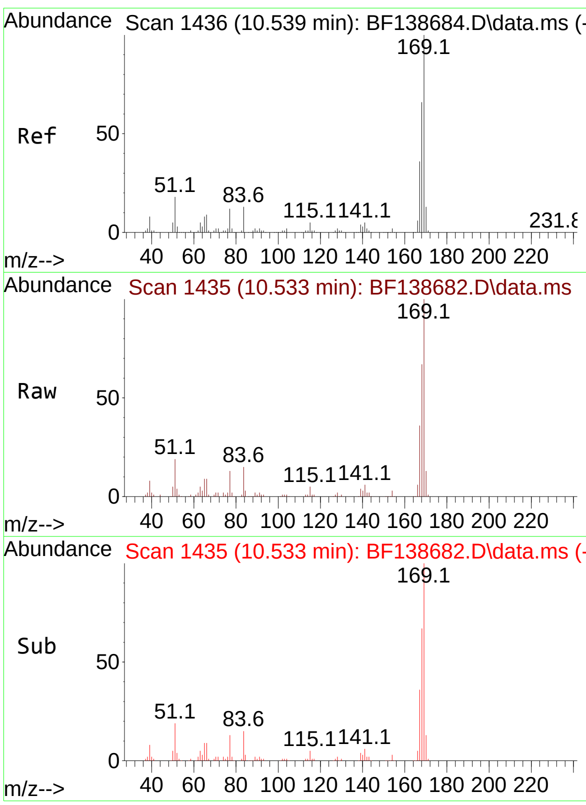
Tgt Ion:198 Resp: 1434

Ion	Ratio	Lower	Upper
198	100		
51	62.9	39.9	79.9
105	43.9	26.1	66.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

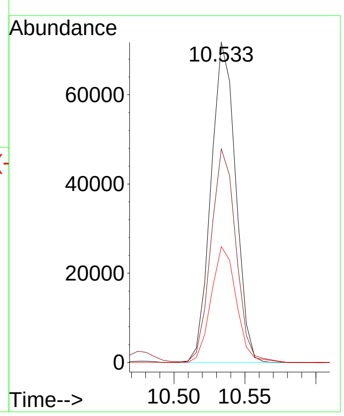


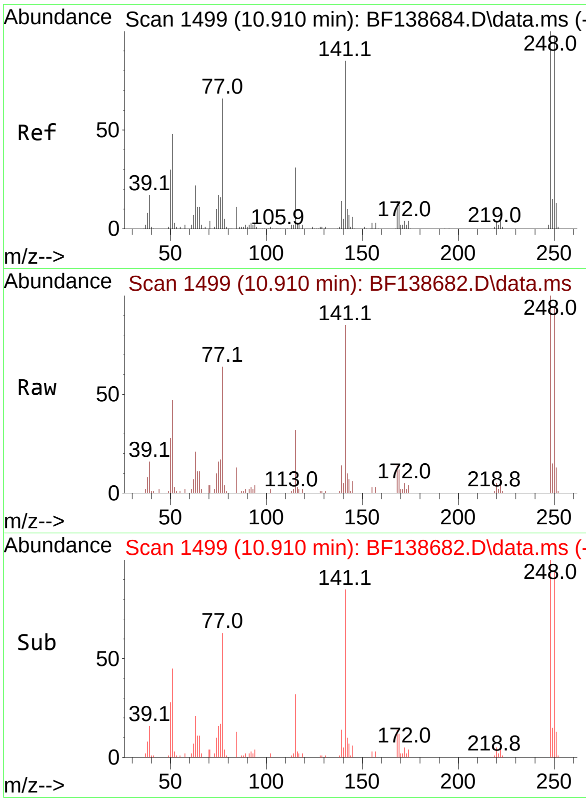


#66
n-Nitrosodiphenylamine
Concen: 10.316 ng
RT: 10.533 min Scan# 1435
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:169 Resp: 86813

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.0	79.6
167	36.2	29.0	43.6





#67
4-Bromophenyl-phenylether
Concen: 10.124 ng
RT: 10.910 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

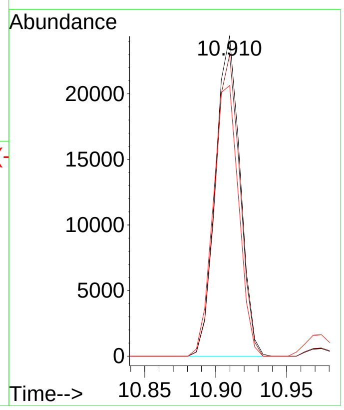
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

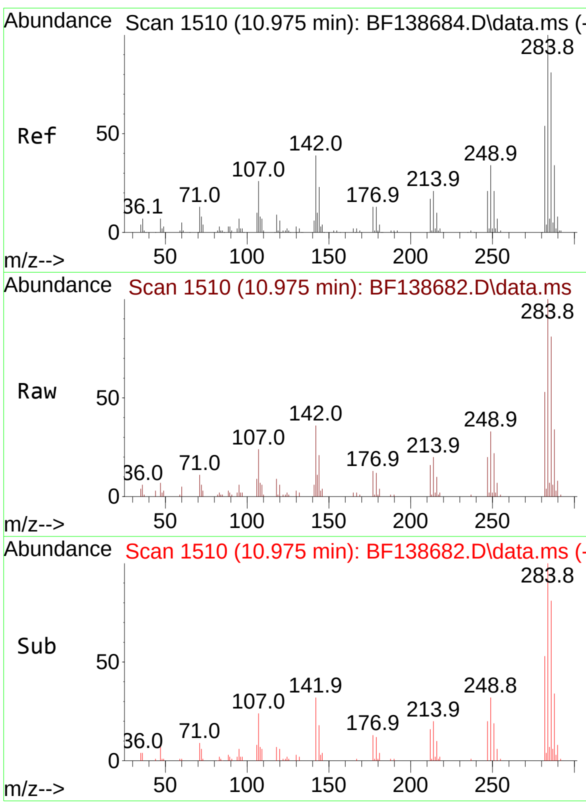
Tgt Ion:248 Resp: 2951

Ion	Ratio	Lower	Upper
248	100		
250	94.2	77.7	116.5
141	84.6	68.0	102.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

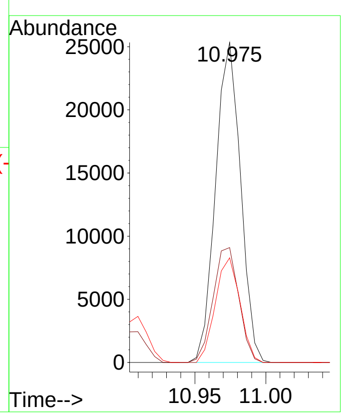




#68
Hexachlorobenzene
Concen: 10.317 ng
RT: 10.975 min Scan# 1510
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:284 Resp: 31049

Ion	Ratio	Lower	Upper
284	100		
142	35.9	31.3	46.9
249	32.7	27.2	40.8

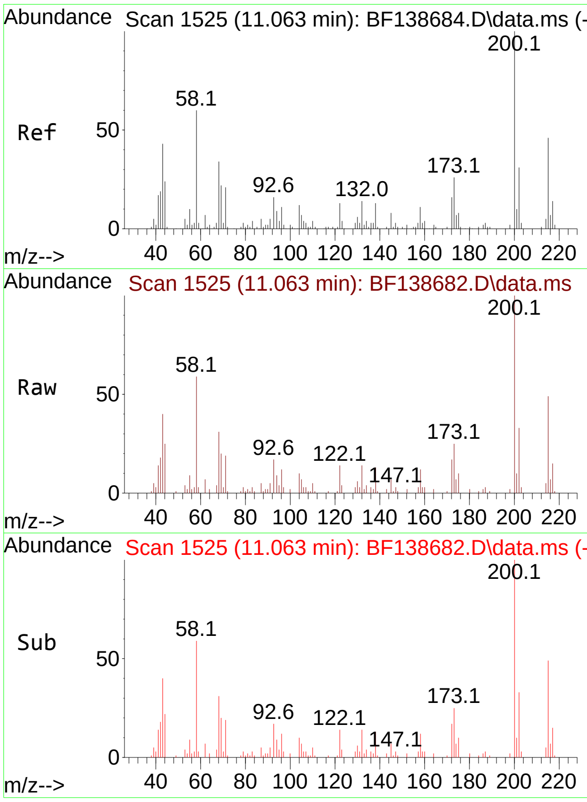


ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

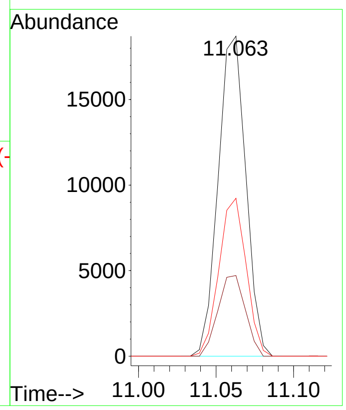
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

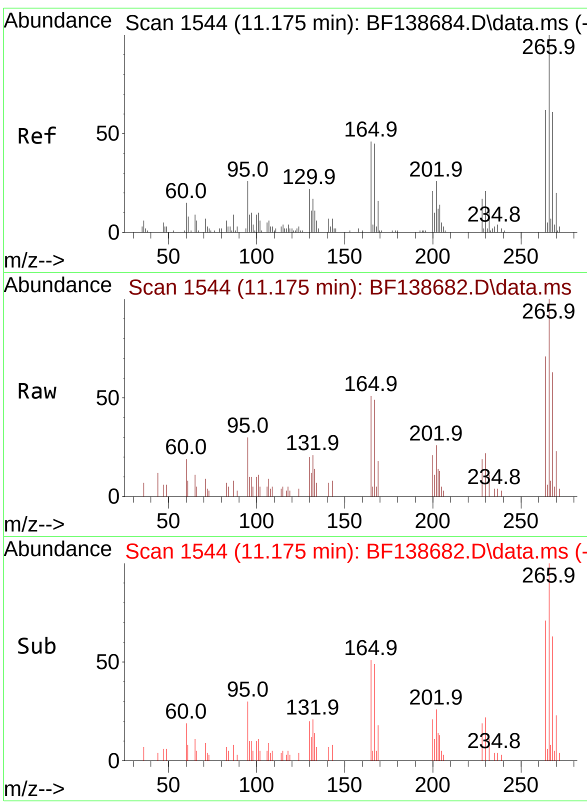


#69
Atrazine
Concen: 10.680 ng
RT: 11.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:200 Resp: 2318

Ion	Ratio	Lower	Upper
200	100		
173	25.2	6.0	46.0
215	49.3	26.1	66.1

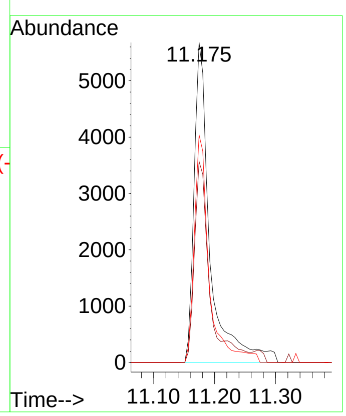


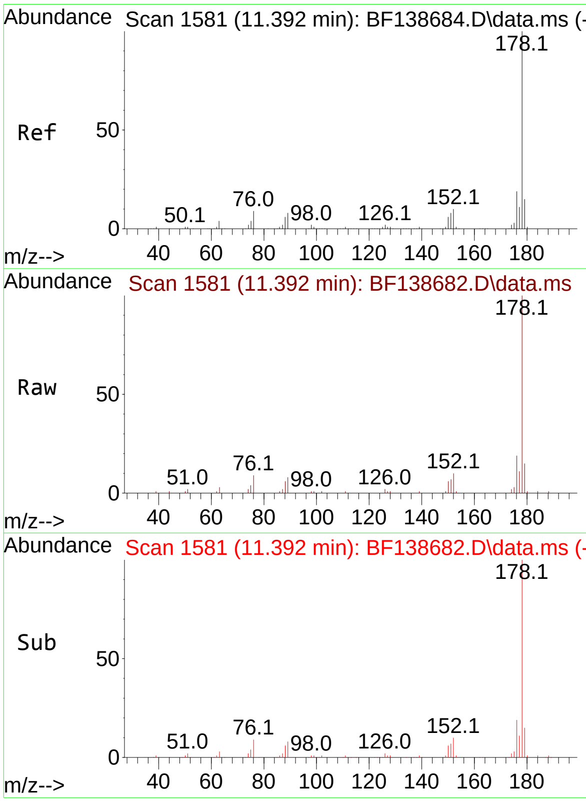


#70
Pentachlorophenol
Concen: 7.661 ng
RT: 11.175 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:266 Resp: 10392

Ion	Ratio	Lower	Upper
266	100		
268	62.8	49.2	73.8
264	71.1	49.8	74.6





#71
Phenanthrene
Concen: 10.766 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

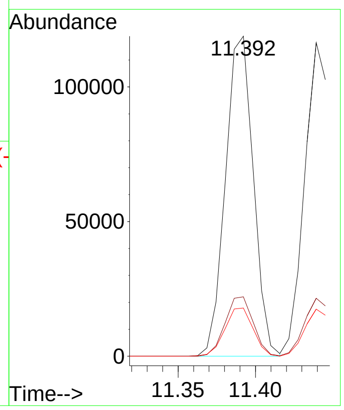
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

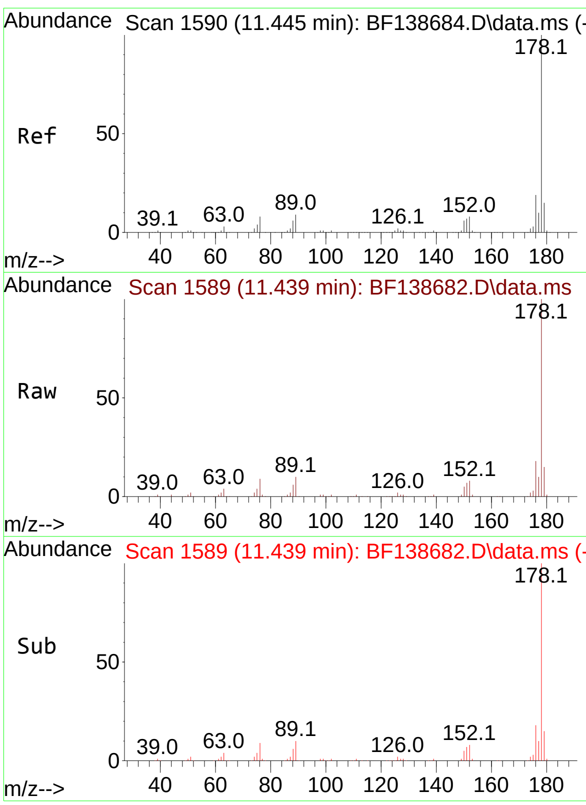
Tgt Ion:178 Resp: 14925

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.0
179	15.1	12.2	18.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

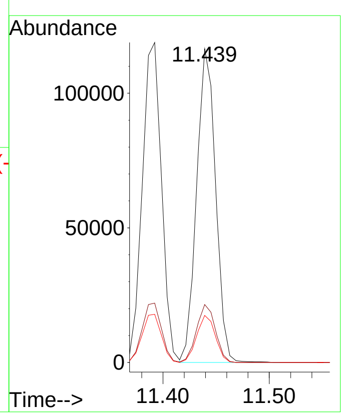




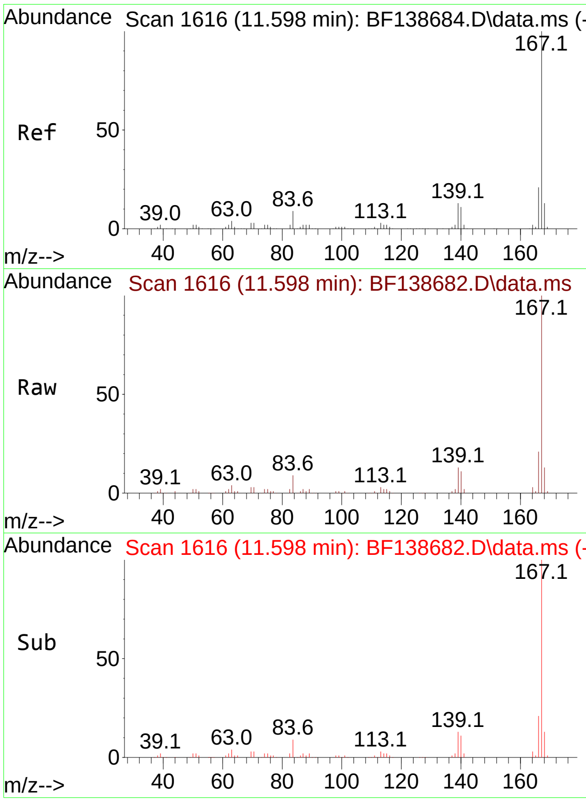
#72
Anthracene
Concen: 10.620 ng
RT: 11.439 min Scan# 1589
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:178 Resp: 145043

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.9	22.3
179	15.0	12.4	18.6



ICAL Form



#73
Carbazole
Concen: 10.721 ng
RT: 11.598 min   Scan# 1(
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024   13:56

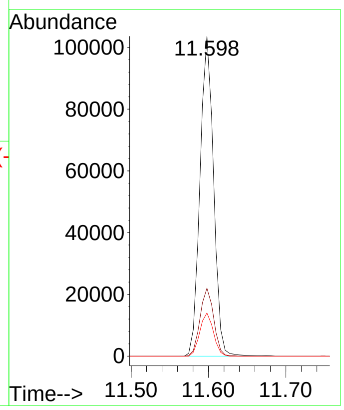
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

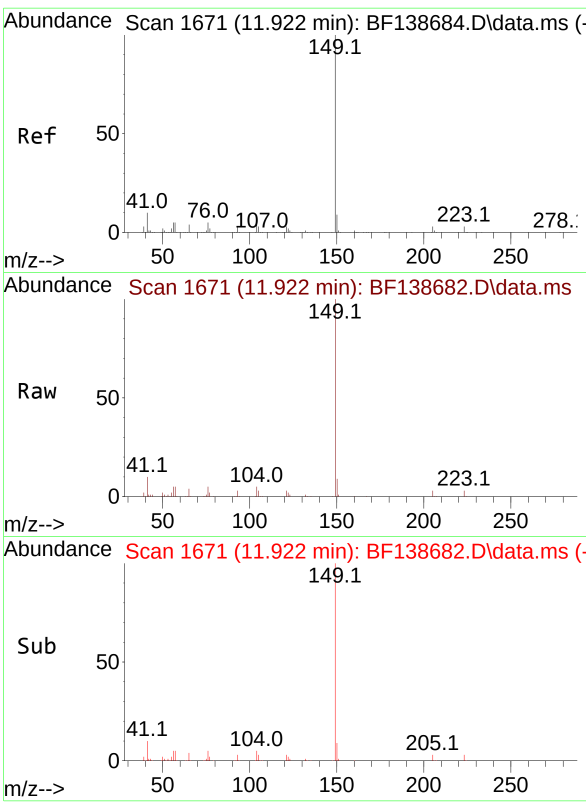
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel   07/31/2024
Supervised By :mohammad ahmed   07/31/2024

Tgt Ion:167 Resp: 12632

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.2	25.8
139	13.5	10.6	16.0

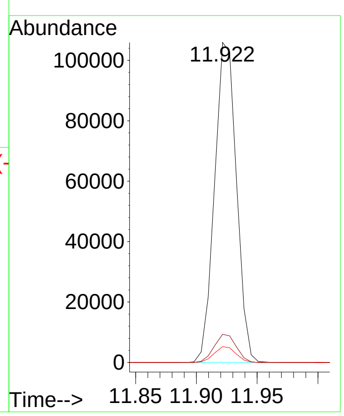




#74
Di-n-butylphthalate
Concen: 10.060 ng
RT: 11.922 min   Scan# 1671
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024   13:56

Tgt Ion:149 Resp: 133246

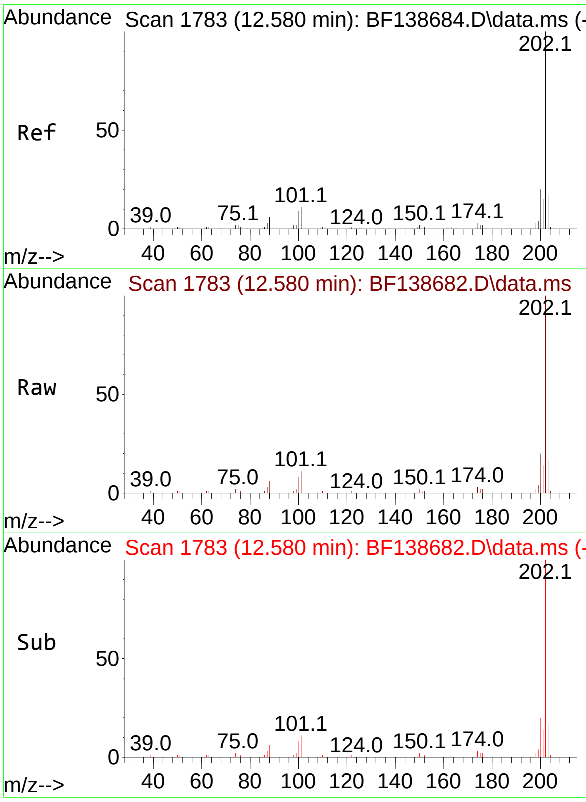
Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.4	11.0
104	5.0	4.1	6.1



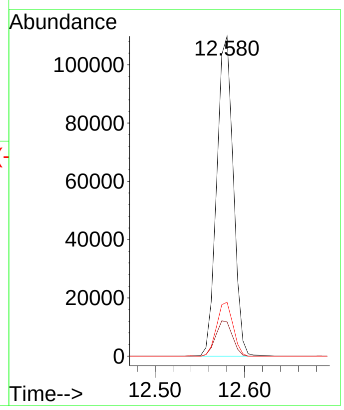
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

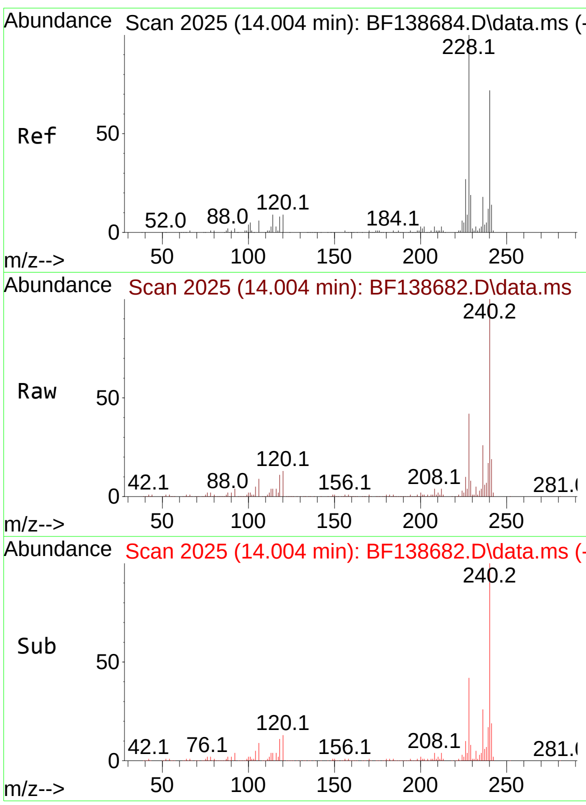
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

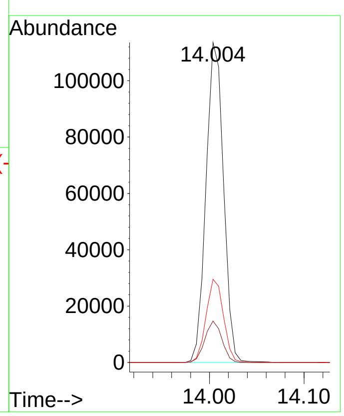


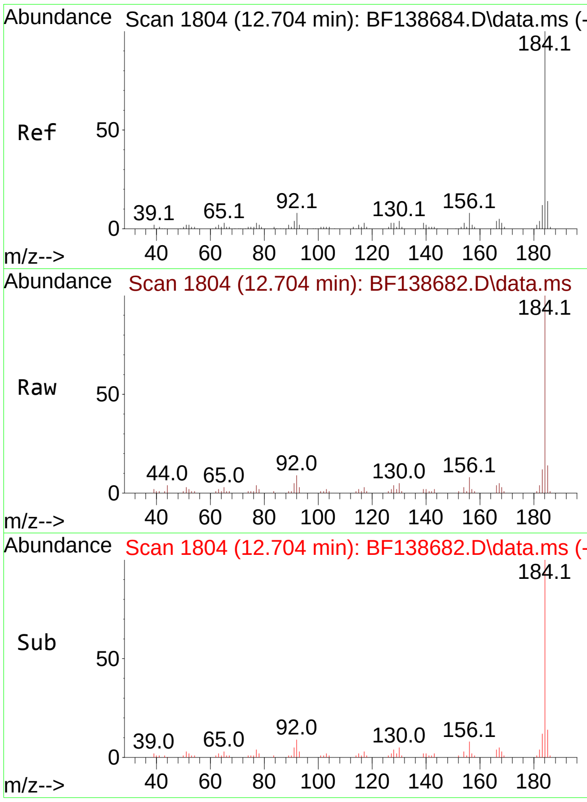

```
#75
Fluoranthene
Concen:   10.871 ng
RT:  12.580 min  Scan# 1
Delta R.T.   -0.000 min
Lab File:   BF138682.D
Acq: 30 Jul 2024  13:56

Tgt Ion:202 Resp:  14069
Ion  Ratio  Lower  Upper
202  100
101   10.7    0.0   31.2
203   16.8    0.0   37.3
```






```
#76
Chrysene-d12
Concen:   20.000 ng
RT:  14.004 min  Scan# 2025
Delta R.T.   -0.000 min
Lab File:   BF138682.D
Acq: 30 Jul 2024  13:56

Tgt Ion:240 Resp:  146258
Ion  Ratio  Lower  Upper
240  100
120   13.0   10.2   15.4
236   26.0   19.8   29.8
```





#77
Benzidine
Concen: 10.080 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

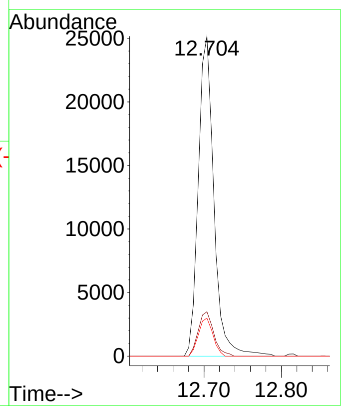
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

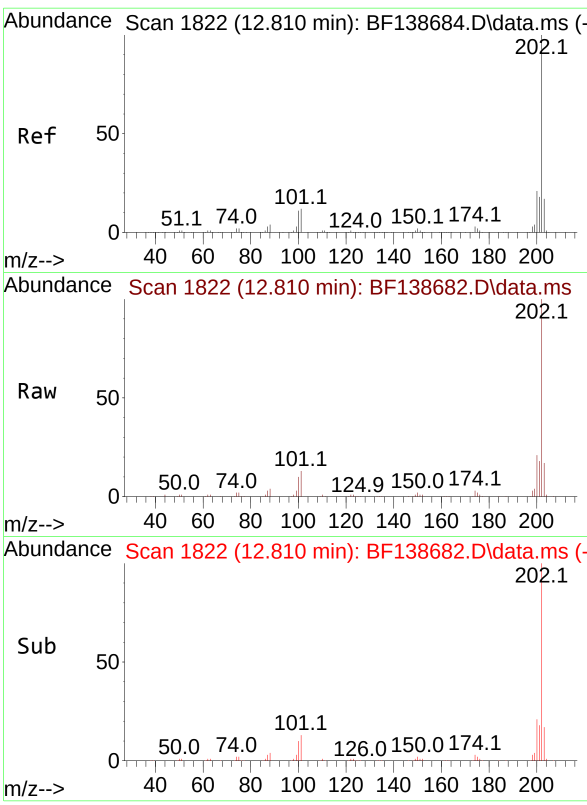
Tgt Ion:184 Resp: 3526

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.1	16.7
183	11.9	9.6	14.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

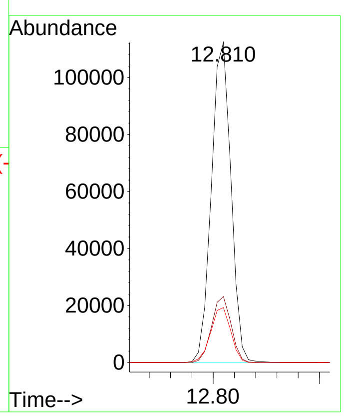




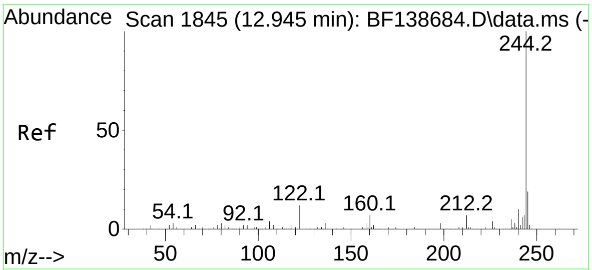
#78
Pyrene
Concen: 10.400 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

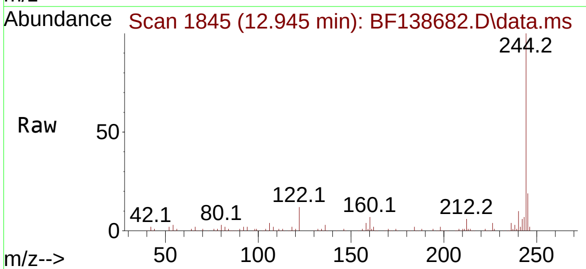
Tgt Ion:202 Resp: 143221

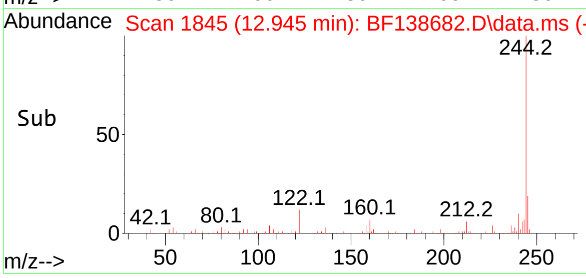
Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.8	25.2
203	17.2	13.8	20.6



ICAL Form





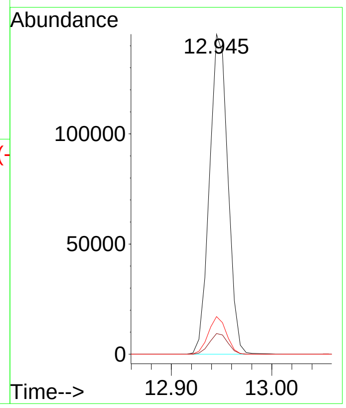


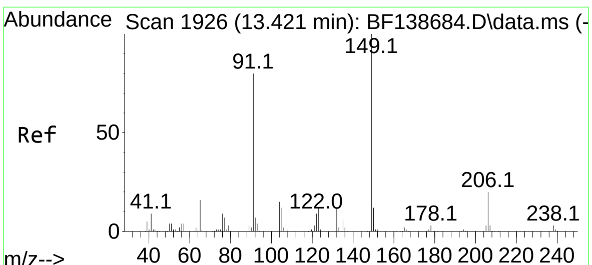

```
#79
Terphenyl-d14
Concen:   21.187 ng
RT:  12.945 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   BF138682.D
Acq: 30 Jul 2024  13:56

Tgt Ion:244 Resp:   18507
Ion  Ratio  Lower  Upper
244  100
212    6.5    5.4    8.2
122   11.8    9.6   14.4
```

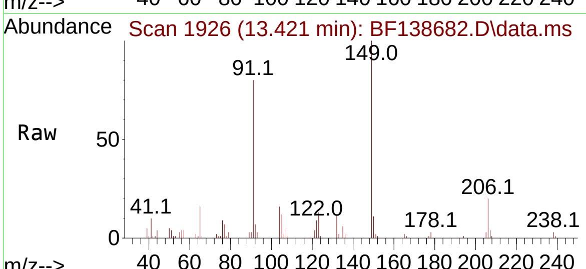
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

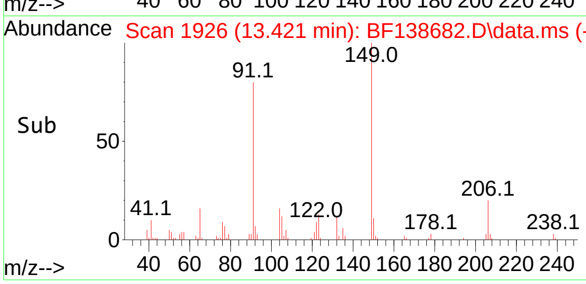
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

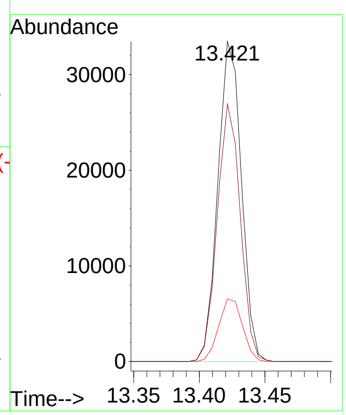




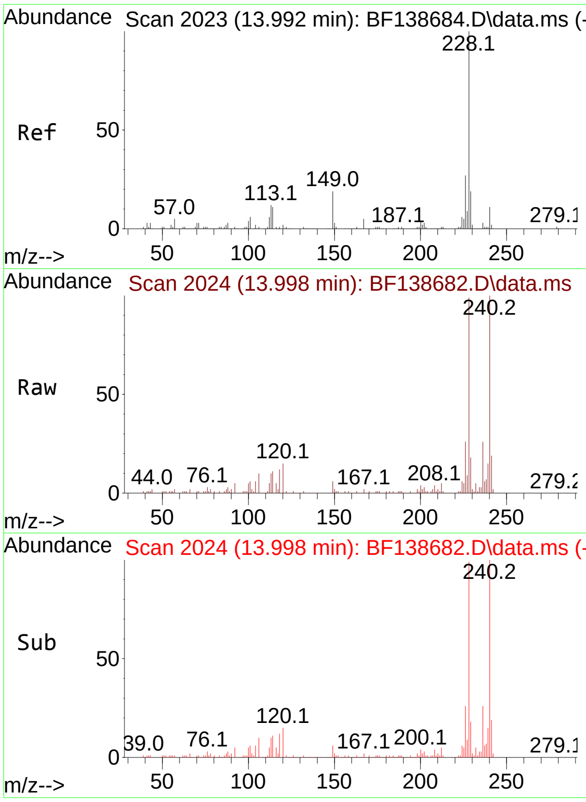





```
#80
Butylbenzylphthalate
Concen:    9.472 ng
RT:  13.421 min  Scan# 1926
Delta R.T.  -0.000 min
Lab File:   BF138682.D
Acq: 30 Jul 2024  13:56

Tgt Ion:149 Resp:   41771
Ion  Ratio  Lower  Upper
149  100
 91   80.4   63.7   95.5
206   19.6   16.2   24.2
```



ICAL Form



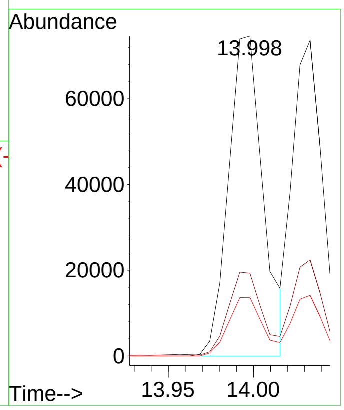
#81
Benzo(a)anthracene
Concen: 10.444 ng
RT: 13.998 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

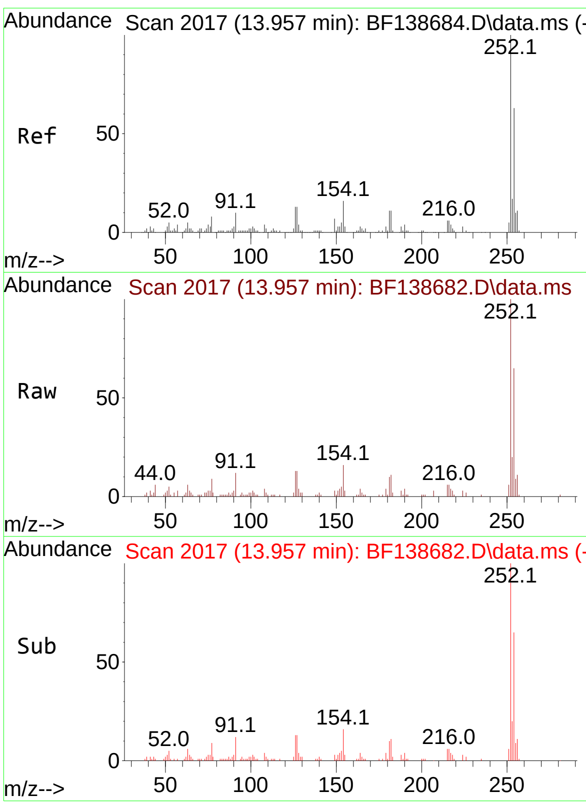
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 10518

Ion	Ratio	Lower	Upper
228	100		
226	25.8	22.1	33.1
229	18.3	15.4	23.0

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

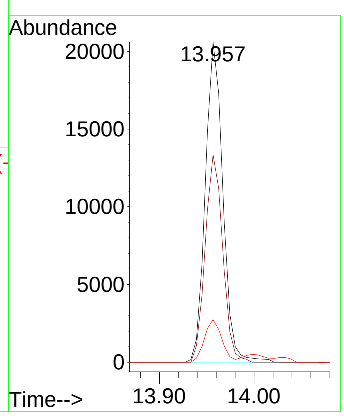




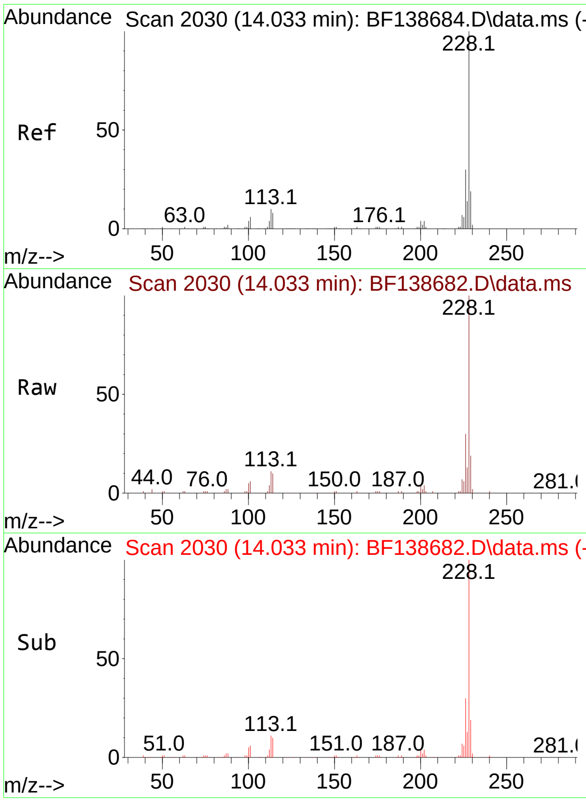
#82
3,3'-Dichlorobenzidine
Concen: 10.314 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:252 Resp: 26584

Ion	Ratio	Lower	Upper
252	100		
254	64.9	50.8	76.2
126	13.3	10.2	15.2



ICAL Form



#83
Chrysene
Concen: 9.881 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

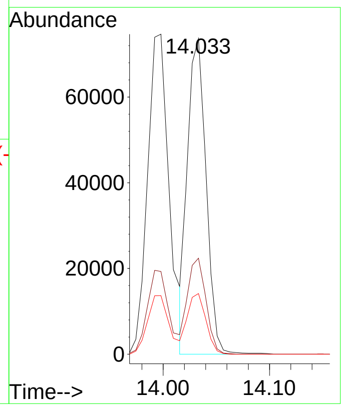
Tgt Ion:228 Resp: 8978

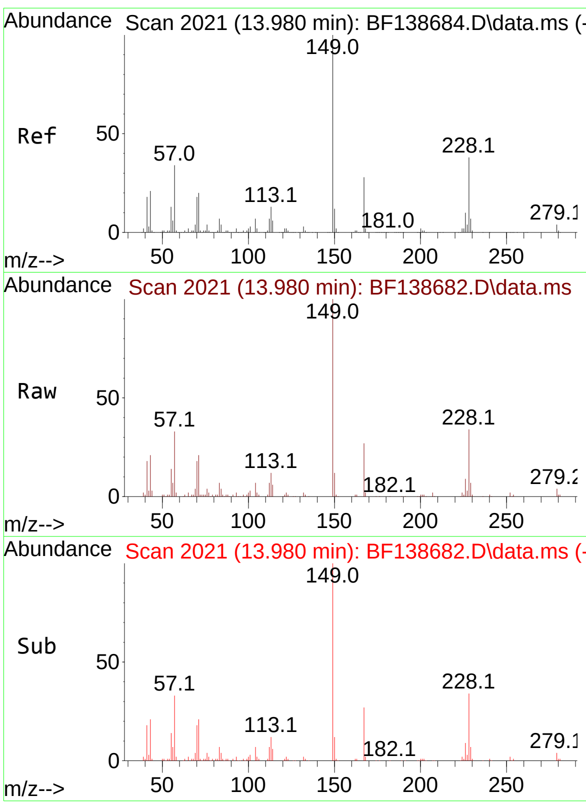
Ion	Ratio	Lower	Upper
228	100		
226	30.4	23.7	35.5
229	19.2	15.0	22.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

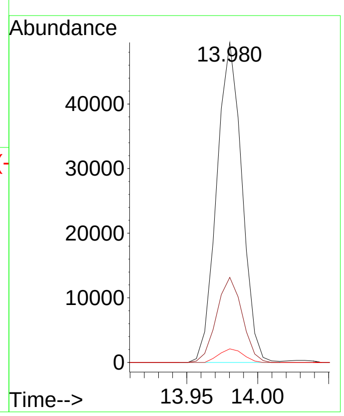




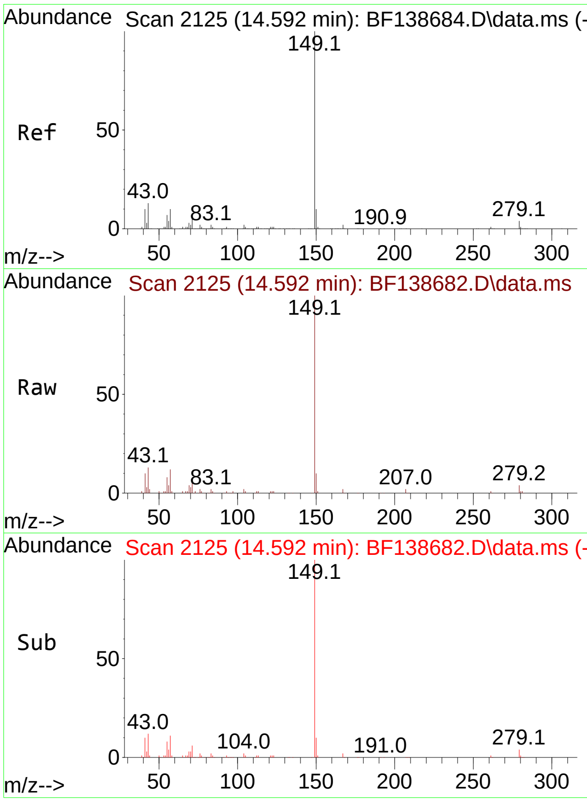
#84
Bis(2-ethylhexyl)phthalate
Concen: 9.495 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:149 Resp: 61314

Ion	Ratio	Lower	Upper
149	100		
167	26.6	22.2	33.4
279	4.3	3.4	5.0



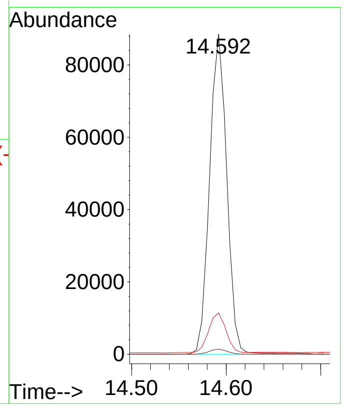
ICAL Form



#85
Di-n-octyl phthalate
Concen: 9.329 ng
RT: 14.592 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:149 Resp: 11146

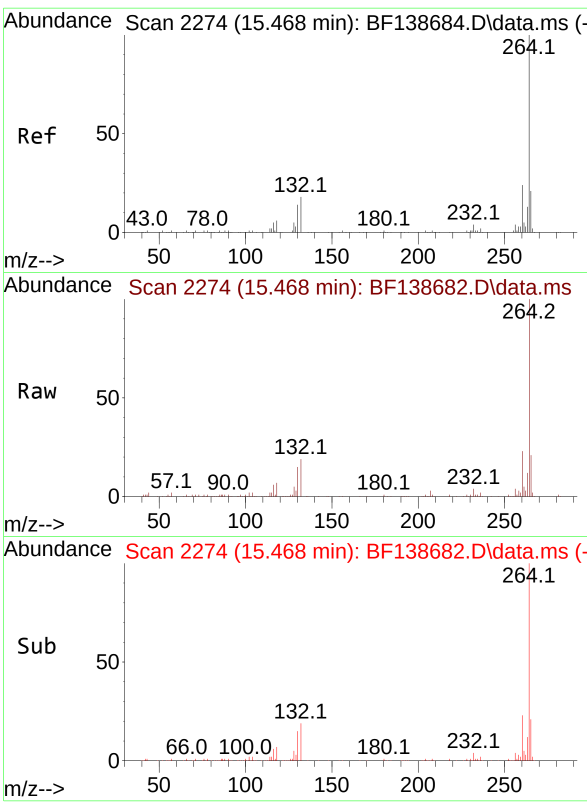
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.4	2.0
43	12.8	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

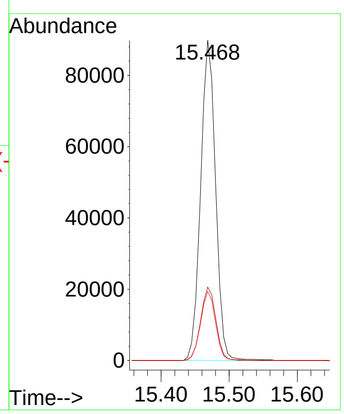
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024



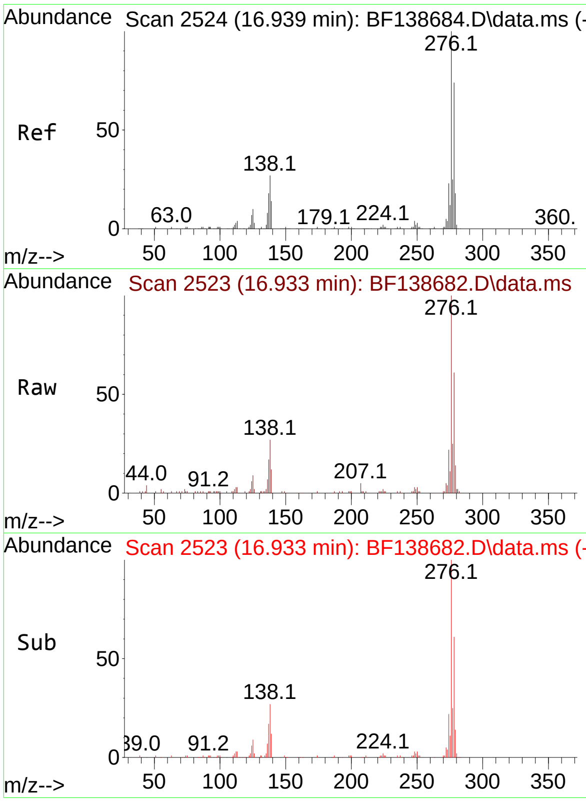
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:264 Resp: 137026

Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.0	28.6
265	21.5	17.0	25.6



ICAL Form

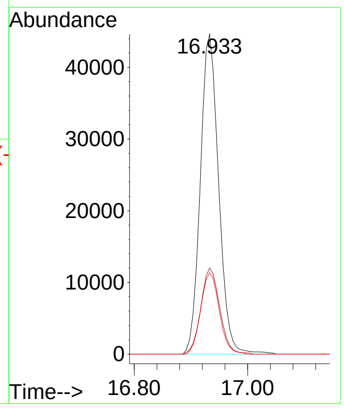


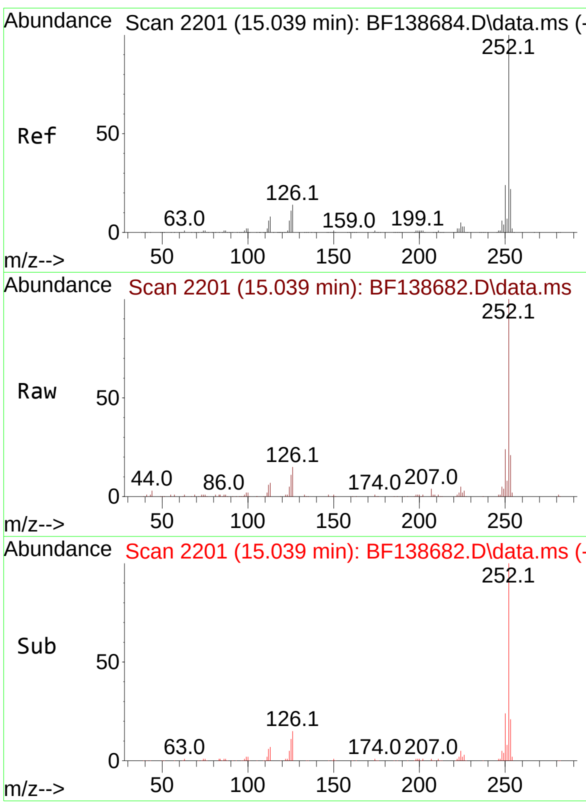

```
#87
Indeno(1,2,3-cd)pyrene
Concen:   10.215 ng
RT:  16.933 min  Scan# 2
Delta R.T.  -0.006 min
Lab File:   BF138682.D
Acq: 30 Jul 2024  13:56

Tgt Ion:276 Resp:  10031
Ion  Ratio  Lower  Upper
276  100
138   27.7   21.8   32.8
277   25.5   20.6   30.8
```

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

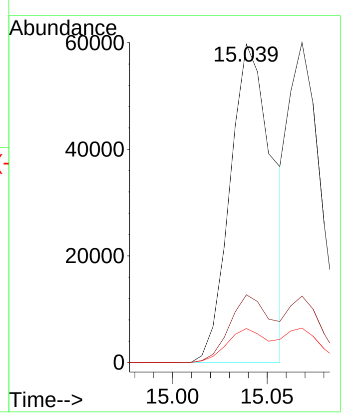
Manual Integrations
APPROVED

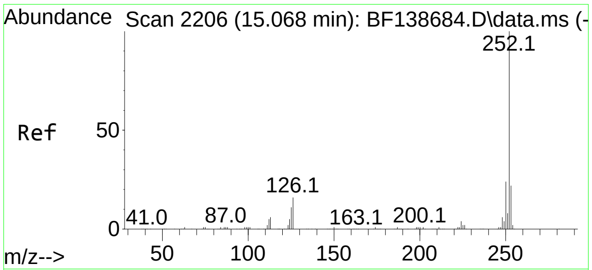
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

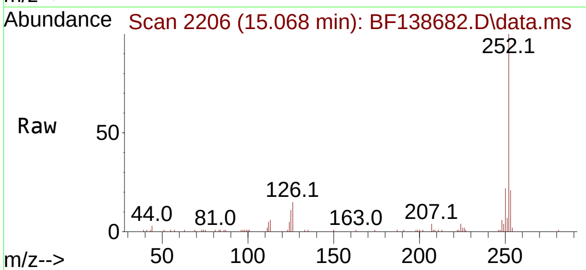


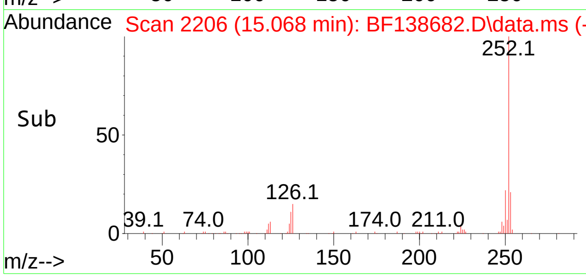



```
#88
Benzo(b)fluoranthene
Concen:   10.980 ng
RT:  15.039 min  Scan# 2201
Delta R.T.  0.000 min
Lab File:   BF138682.D
Acq: 30 Jul 2024  13:56

Tgt Ion:252 Resp:   93263
Ion  Ratio  Lower  Upper
252  100
253   21.2   17.5   26.3
125   10.7    8.9   13.3
```









#89
Benzo(k)fluoranthene
Concen: 9.717 ng
RT: 15.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

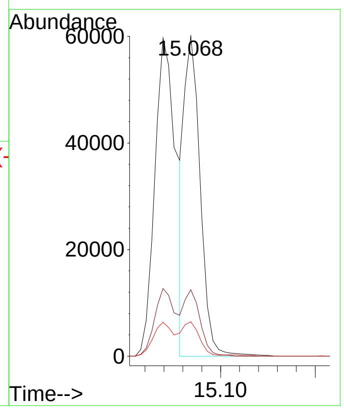
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

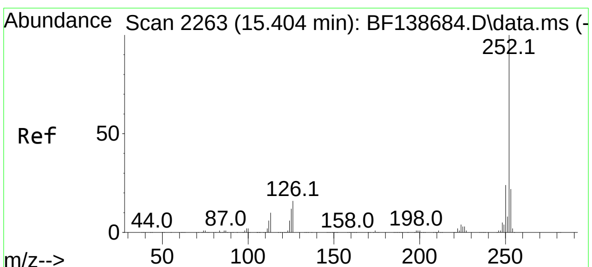
Tgt Ion:252 Resp: 7146

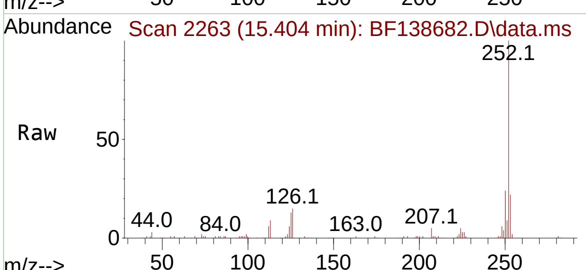
Ion	Ratio	Lower	Upper
252	100		
253	20.8	17.4	26.0
125	10.7	8.6	13.0

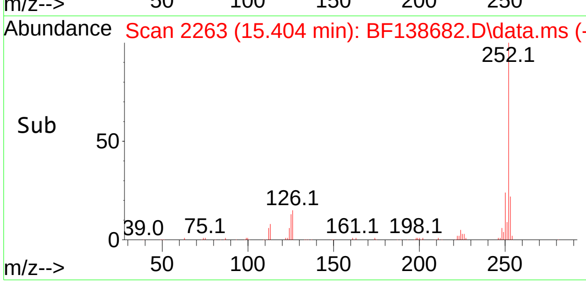
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024





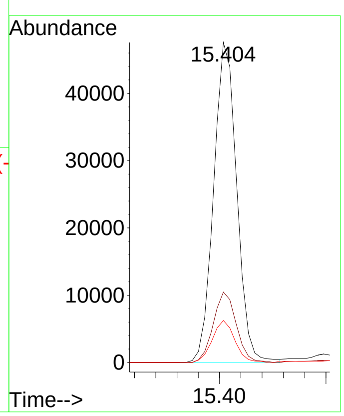




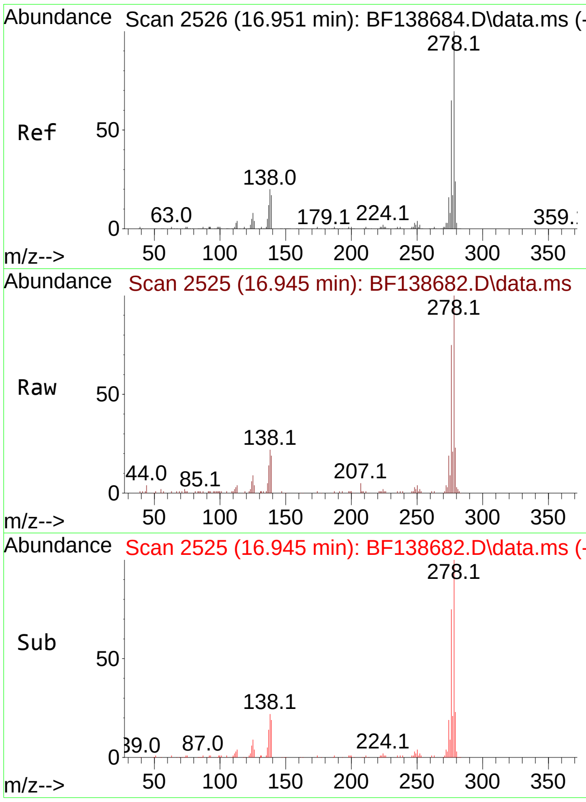
#90
Benzo(a)pyrene
Concen: 10.038 ng
RT: 15.404 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:252 Resp: 71724

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.3	25.9
125	13.1	9.5	14.3



ICAL Form



#91
Dibenzo(a,h)anthracene
Concen: 10.465 ng
RT: 16.945 min Scan# 2!
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

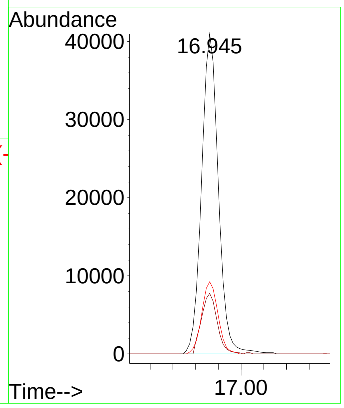
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

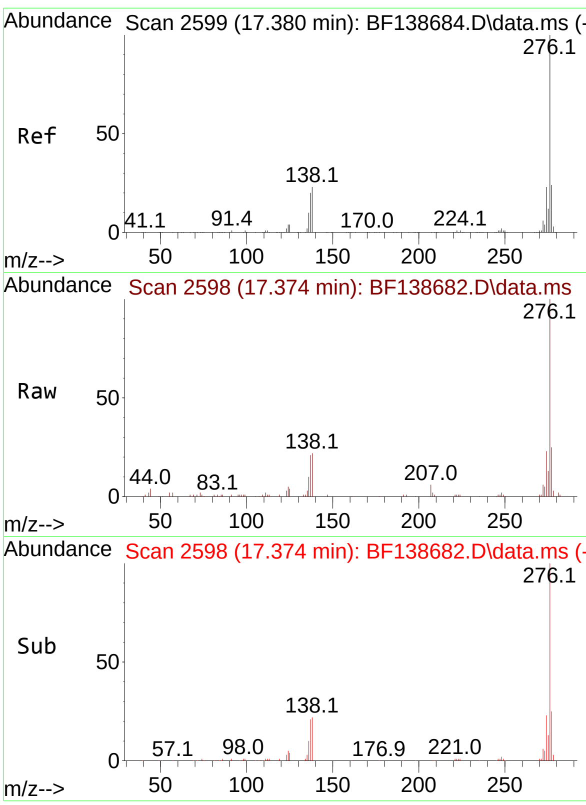
Tgt Ion:278 Resp: 8435(

Ion	Ratio	Lower	Upper
278	100		
139	18.9	14.0	21.0
279	22.6	19.0	28.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

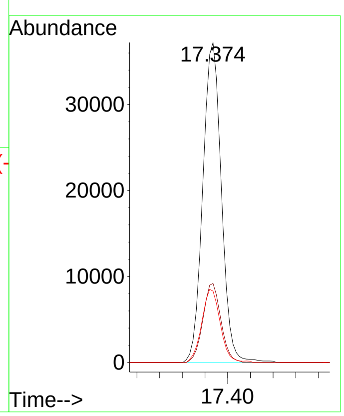




#92
Benzo(g,h,i)perylene
Concen: 10.110 ng
RT: 17.374 min Scan# 2598
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:276 Resp: 84564

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.0	28.4
138	22.3	18.5	27.7



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138683.D
Acq On : 30 Jul 2024 14:25
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Jul 30 17:43:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.846	152	73859	20.000 ng	0.00
21) Naphthalene-d8	8.128	136	300790	20.000 ng	0.00
39) Acenaphthene-d10	9.881	164	166031	20.000 ng	0.00
64) Phenanthrene-d10	11.369	188	283009	20.000 ng	0.00
76) Chrysene-d12	14.010	240	137400	20.000 ng	0.00
86) Perylene-d12	15.469	264	137093	20.000 ng	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	5.463	112	198160	41.415 ng	0.00
7) Phenol-d6	6.481	99	269991	42.029 ng	0.00
23) Nitrobenzene-d5	7.410	82	255192	41.480 ng	0.00
42) 2,4,6-Tribromophenol	10.669	330	58374	42.922 ng	0.00
45) 2-Fluorobiphenyl	9.198	172	465641	42.138 ng	0.00
79) Terphenyl-d14	12.951	244	374162	45.593 ng	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.587	88	42900	20.480 ng	99
3) Pyridine	3.346	79	107346	21.154 ng	98
4) n-Nitrosodimethylamine	3.287	42	61242	20.264 ng	98
6) Aniline	6.504	93	125837	21.965 ng	98
8) 2-Chlorophenol	6.634	128	106548	21.166 ng	98
9) Benzaldehyde	6.399	77	81141	21.071 ng	100
10) Phenol	6.493	94	141295	20.890 ng	95
11) bis(2-Chloroethyl)ether	6.581	93	105905	20.347 ng	98
12) 1,3-Dichlorobenzene	6.787	146	118768	21.077 ng	99
13) 1,4-Dichlorobenzene	6.863	146	119642	21.039 ng	99
14) 1,2-Dichlorobenzene	7.016	146	113116	21.284 ng	100
15) Benzyl Alcohol	6.987	79	98544	21.284 ng	99
16) 2,2'-oxybis(1-Chloropr...	7.122	45	191406	21.369 ng	94
17) 2-Methylphenol	7.098	107	87392	21.024 ng	98
18) Hexachloroethane	7.357	117	44140	20.620 ng	99
19) n-Nitroso-di-n-propyla...	7.251	70	82912	21.369 ng	98
20) 3+4-Methylphenols	7.257	107	115081	21.577 ng	94
22) Acetophenone	7.251	105	152730	20.738 ng	100
24) Nitrobenzene	7.428	77	130332	20.819 ng	98
25) Isophorone	7.663	82	220971	21.034 ng	99
26) 2-Nitrophenol	7.745	139	56578	21.006 ng	99
27) 2,4-Dimethylphenol	7.781	122	66449	20.620 ng	98
28) bis(2-Chloroethoxy)met...	7.875	93	135096	21.118 ng	100
29) 2,4-Dichlorophenol	7.992	162	88156	21.289 ng	99
30) 1,2,4-Trichlorobenzene	8.069	180	98908	20.697 ng	98
31) Naphthalene	8.151	128	333821	21.084 ng	99
32) Benzoic acid	7.887	122	47452	18.740 ng	97
33) 4-Chloroaniline	8.198	127	111005	20.887 ng	98
34) Hexachlorobutadiene	8.263	225	60058	20.749 ng	98
35) Caprolactam	8.557	113	26359	21.333 ng	98
36) 4-Chloro-3-methylphenol	8.681	107	103141	21.794 ng	99
37) 2-Methylnaphthalene	8.840	142	213210	21.323 ng	99
38) 1-Methylnaphthalene	8.940	142	208242	21.253 ng	99
40) 1,2,4,5-Tetrachloroben...	9.004	216	96503	20.924 ng	98
41) Hexachlorocyclopentadiene	8.987	237	16767	19.505 ng	99
43) 2,4,6-Trichlorophenol	9.116	196	58575	20.830 ng	97

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138683.D
Acq On : 30 Jul 2024 14:25
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Jul 30 17:43:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

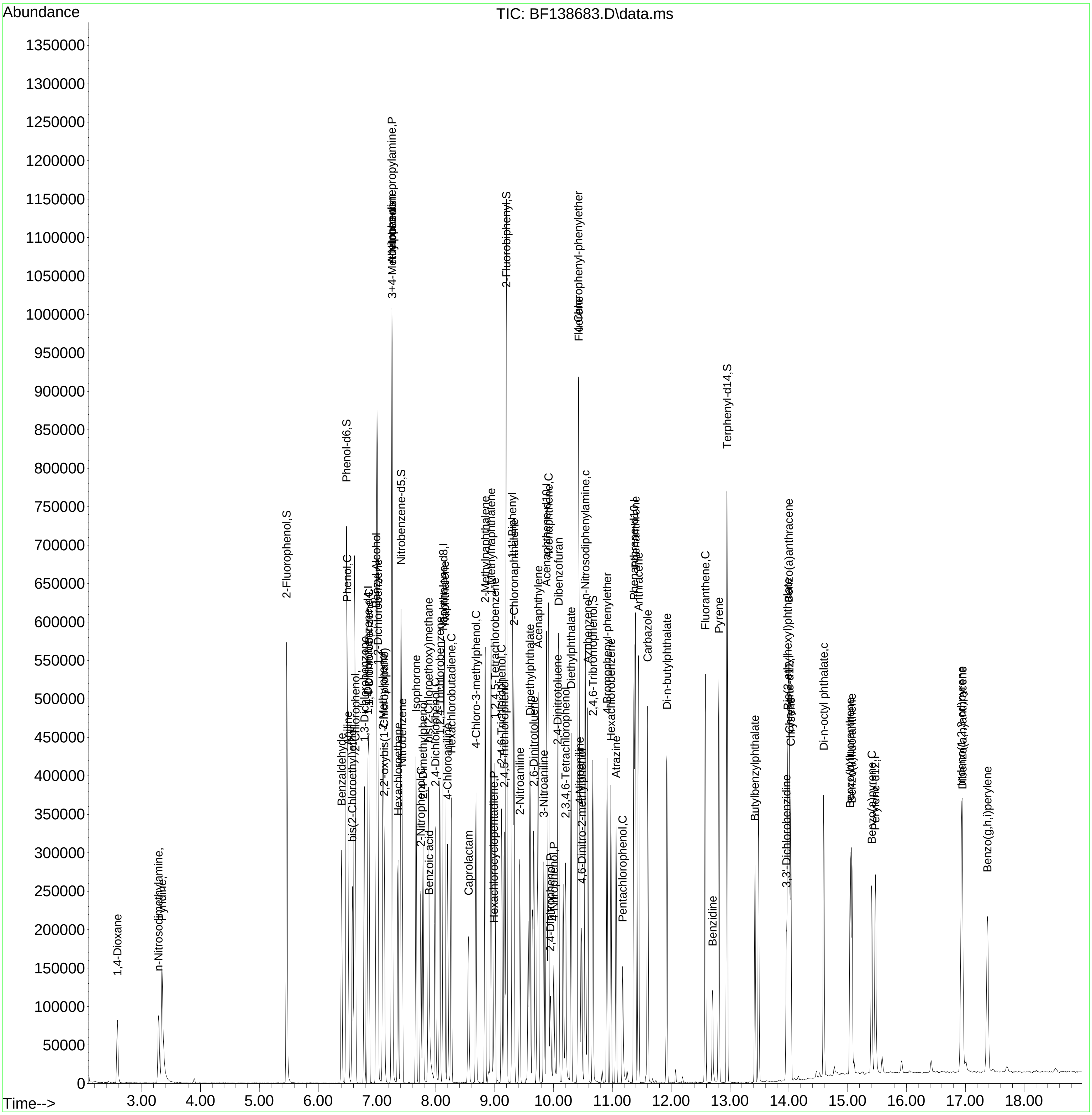
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44)	2,4,5-Trichlorophenol	9.163	196	64272	20.907 ng	97
46)	1,1'-Biphenyl	9.298	154	270560	20.807 ng	100
47)	2-Chloronaphthalene	9.328	162	201367	20.822 ng	98
48)	2-Nitroaniline	9.428	65	68663	20.943 ng	97
49)	Acenaphthylene	9.739	152	289321	21.093 ng	99
50)	Dimethylphthalate	9.598	163	226938	21.376 ng	99
51)	2,6-Dinitrotoluene	9.663	165	50501	21.078 ng	94
52)	Acenaphthene	9.916	154	194057	21.047 ng	100
53)	3-Nitroaniline	9.834	138	52618	21.244 ng	95
54)	2,4-Dinitrophenol	9.945	184	23573	21.374 ng	92
55)	Dibenzofuran	10.086	168	276572	21.249 ng	99
56)	4-Nitrophenol	10.004	139	30898	20.745 ng	98
57)	2,4-Dinitrotoluene	10.069	165	66734	21.832 ng	97
58)	Fluorene	10.428	166	224349	21.646 ng	99
59)	2,3,4,6-Tetrachlorophenol	10.204	232	49368	21.005 ng	97
60)	Diethylphthalate	10.298	149	219374	21.793 ng	100
61)	4-Chlorophenyl-phenyle...	10.422	204	109862	21.552 ng	99
62)	4-Nitroaniline	10.445	138	51964	22.077 ng	98
63)	Azobenzene	10.581	77	240769	21.566 ng	100
65)	4,6-Dinitro-2-methylph...	10.481	198	34887	20.206 ng	99
66)	n-Nitrosodiphenylamine	10.539	169	182551	20.636 ng	99
67)	4-Bromophenyl-phenylether	10.910	248	64049	20.903 ng	99
68)	Hexachlorobenzene	10.975	284	66331	20.966 ng	97
69)	Atrazine	11.063	200	49863	21.847 ng	98
70)	Pentachlorophenol	11.175	266	27470	19.263 ng	98
71)	Phenanthrene	11.392	178	307735	21.117 ng	100
72)	Anthracene	11.445	178	305147	21.256 ng	99
73)	Carbazole	11.598	167	265973	21.474 ng	100
74)	Di-n-butylphthalate	11.928	149	294214	21.131 ng	100
75)	Fluoranthene	12.580	202	294039	21.613 ng	100
77)	Benzidine	12.704	184	66561	20.254 ng	98
78)	Pyrene	12.810	202	294030	22.728 ng	100
80)	Butylbenzylphthalate	13.422	149	83162	20.074 ng	98
81)	Benzo(a)anthracene	13.998	228	193671	20.469 ng	100
82)	3,3'-Dichlorobenzidine	13.957	252	51844	21.412 ng	99
83)	Chrysene	14.033	228	173160	20.285 ng	98
84)	Bis(2-ethylhexyl)phtha...	13.980	149	118293	19.500 ng	99
85)	Di-n-octyl phthalate	14.592	149	221760	19.758 ng	100
87)	Indeno(1,2,3-cd)pyrene	16.933	276	207968	21.168 ng	99
88)	Benzo(b)fluoranthene	15.039	252	176387	20.755 ng	100
89)	Benzo(k)fluoranthene	15.069	252	150547	20.460 ng	99
90)	Benzo(a)pyrene	15.410	252	146767	20.531 ng	99
91)	Dibenzo(a,h)anthracene	16.951	278	171745	21.296 ng	99
92)	Benzo(g,h,i)perylene	17.374	276	176662	21.110 ng	98

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

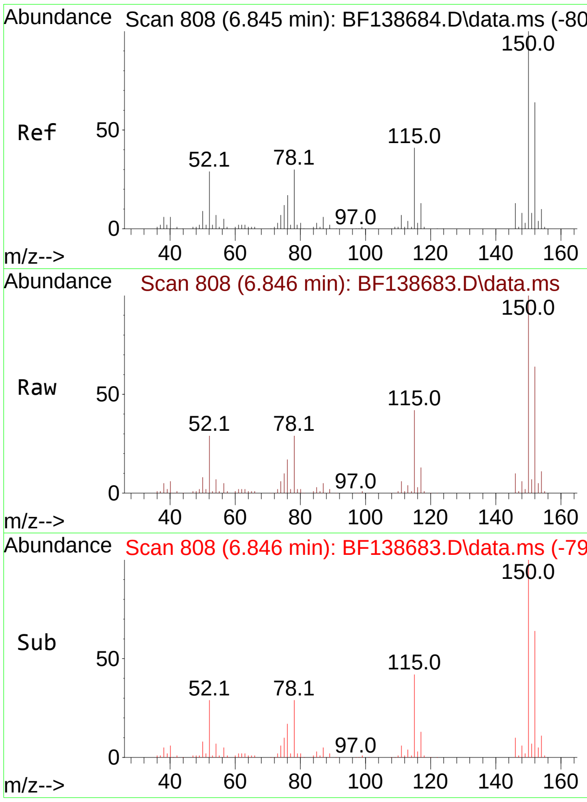
ICAL Form

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138683.D
Acq On    : 30 Jul 2024  14:25
Operator  : RC/JU
Sample    : SSTDICC020
Misc      :
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Jul 30 17:43:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration
```

Instrument :
BNA_F
ClientSampleId :
SSTDICC020



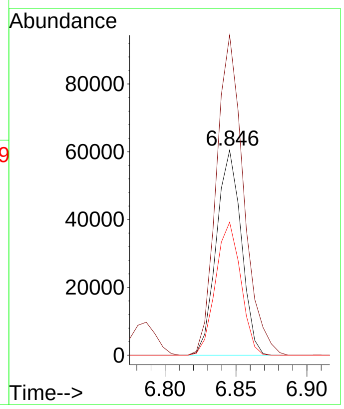
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

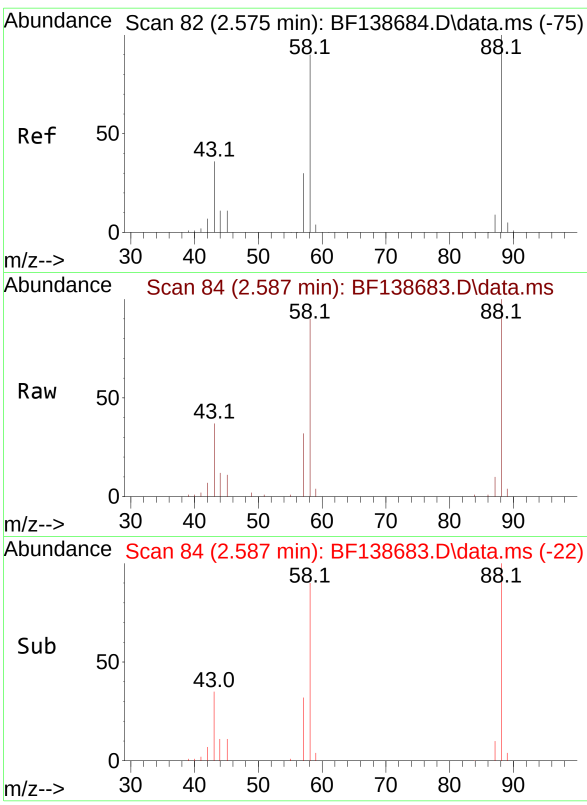


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.846 min   Scan# 8
Delta R.T.   0.001 min
Lab File: BF138683.D
Acq: 30 Jul 2024   14:25

Tgt Ion:152 Resp: 73859

Ion	Ratio	Lower	Upper
152	100		
150	156.1	126.0	189.0
115	64.9	51.7	77.5

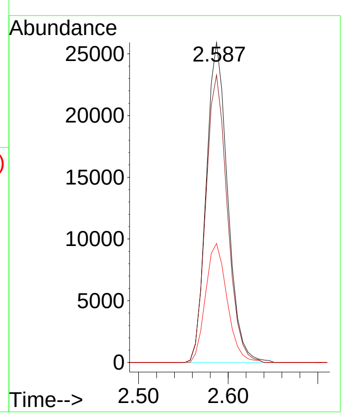




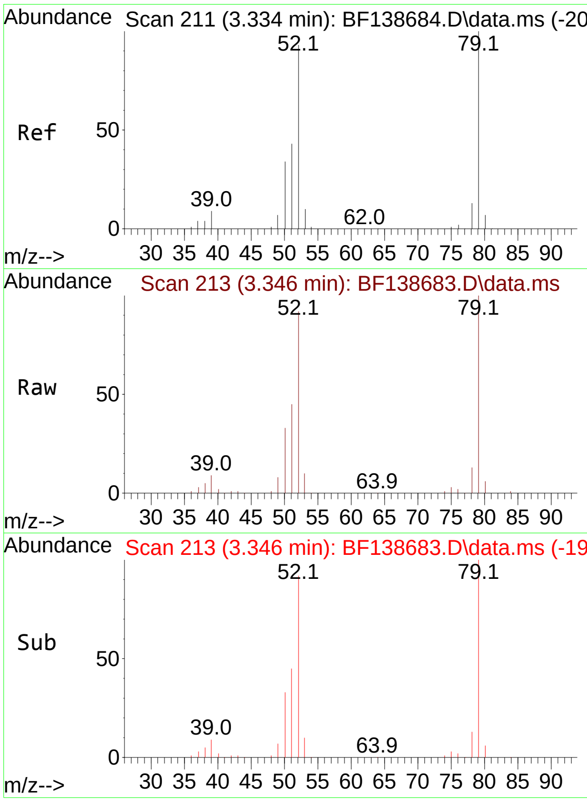
#2
1,4-Dioxane
Concen: 20.480 ng
RT: 2.587 min   Scan# 84
Delta R.T.   0.012 min
Lab File: BF138683.D
Acq: 30 Jul 2024   14:25

Tgt Ion: 88 Resp: 42900

Ion	Ratio	Lower	Upper
88	100		
58	90.3	71.6	107.4
43	37.7	28.7	43.1



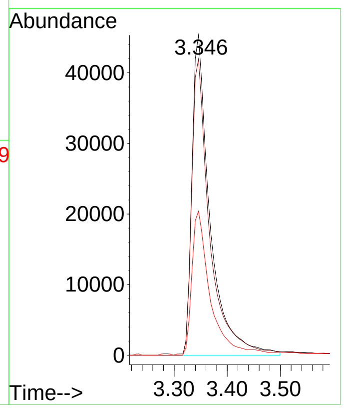
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

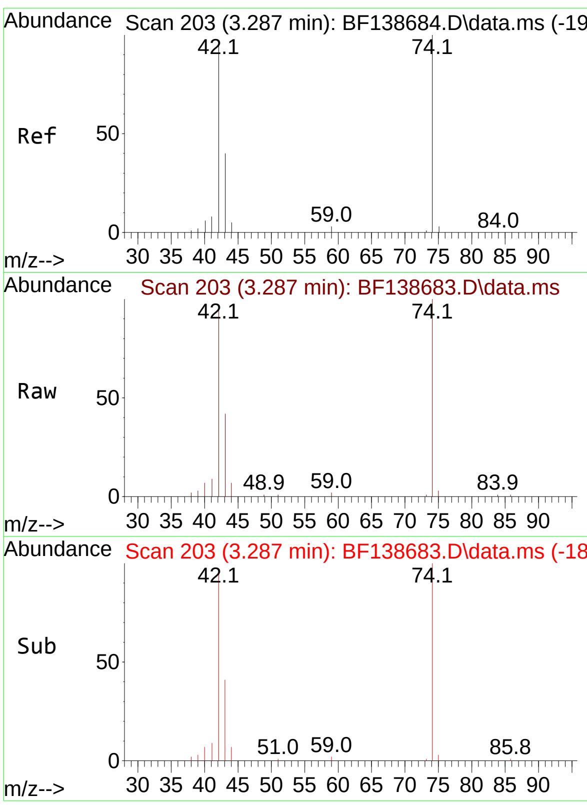


#3
Pyridine
Concen: 21.154 ng
RT: 3.346 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 79 Resp: 107346

Ion	Ratio	Lower	Upper
79	100		
52	92.5	74.7	112.1
51	45.0	34.6	51.8

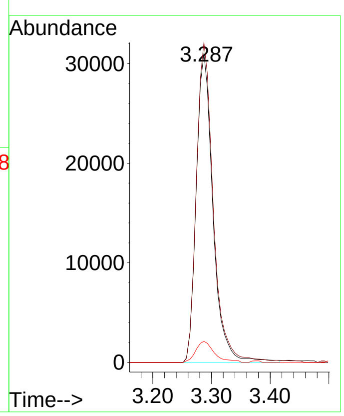




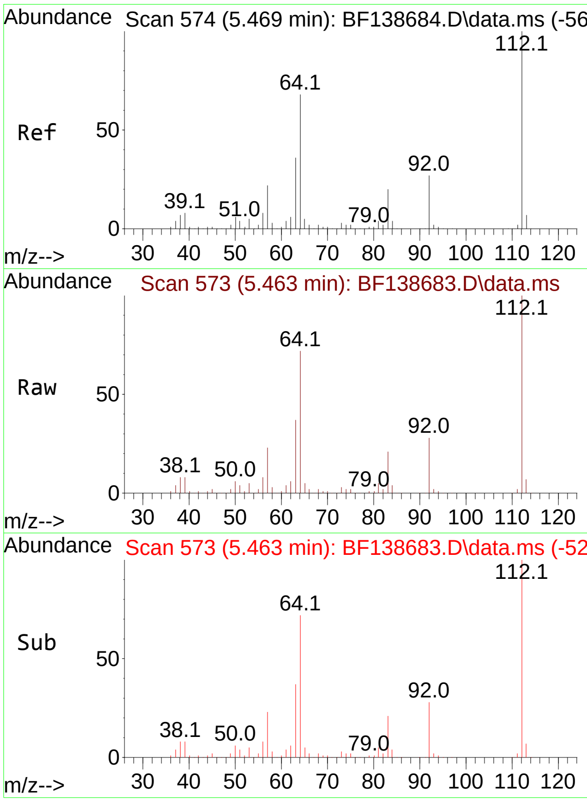
#4
n-Nitrosodimethylamine
Concen: 20.264 ng
RT: 3.287 min Scan# 203
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 42 Resp: 61242

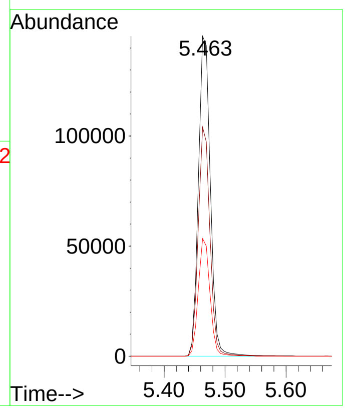
Ion	Ratio	Lower	Upper
42	100		
74	103.5	84.2	126.4
44	6.8	4.9	7.3

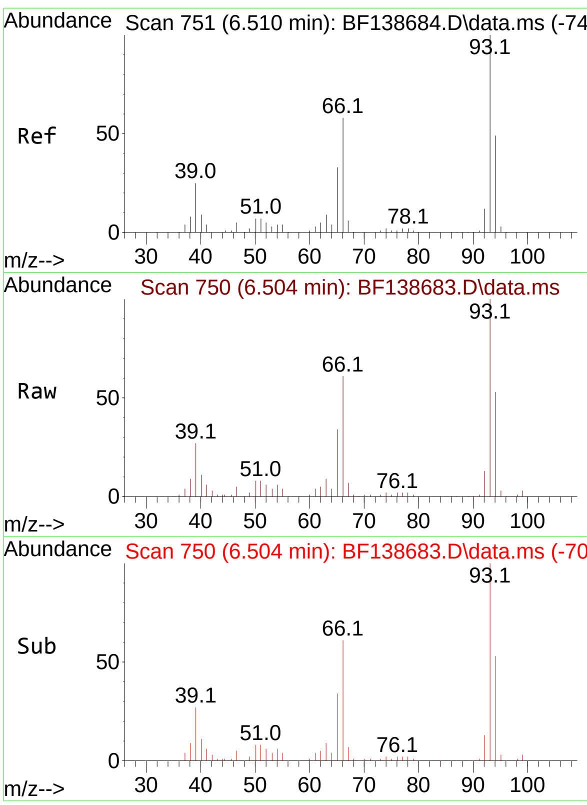


Instrument : BNA_F
ClientSampleId : SSTDICC020

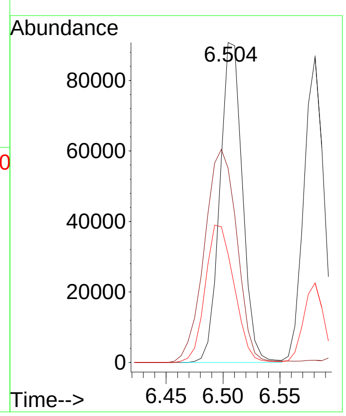



```
#5
2-Fluorophenol
Concen:   41.415 ng
RT:   5.463 min  Scan# 5
Delta R.T.  -0.006 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion:112 Resp:  198160
Ion  Ratio  Lower  Upper
112  100
 64   71.6   54.2   81.4
 63   36.8   28.7   43.1
```

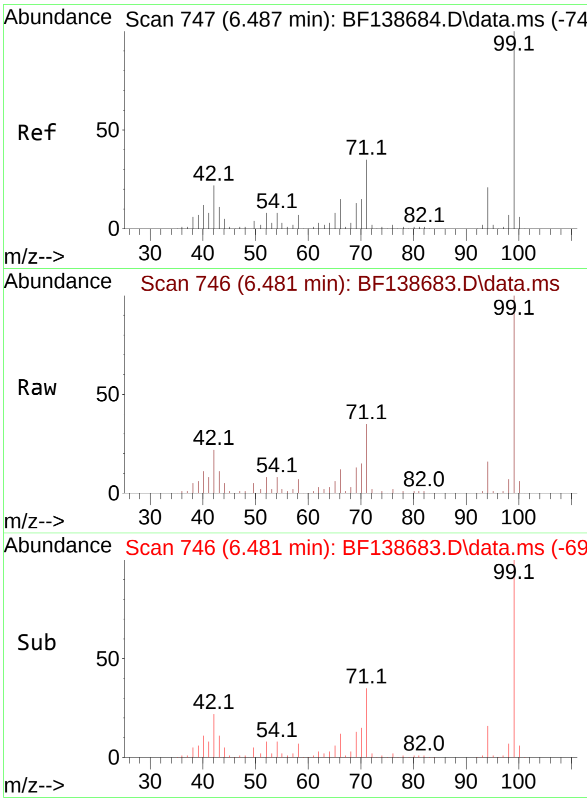





```
#6
Aniline
Concen:   21.965 ng
RT:   6.504 min  Scan# 750
Delta R.T.  -0.006 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion: 93 Resp:  125837
Ion  Ratio  Lower  Upper
 93  100
 66   60.7   46.9   70.3
 65   33.9   26.5   39.7
```



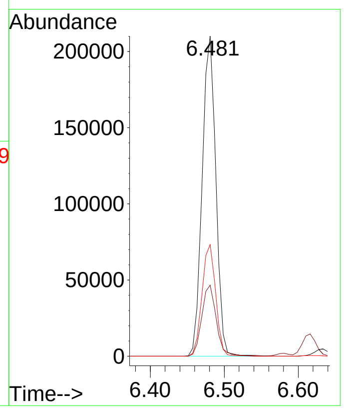
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

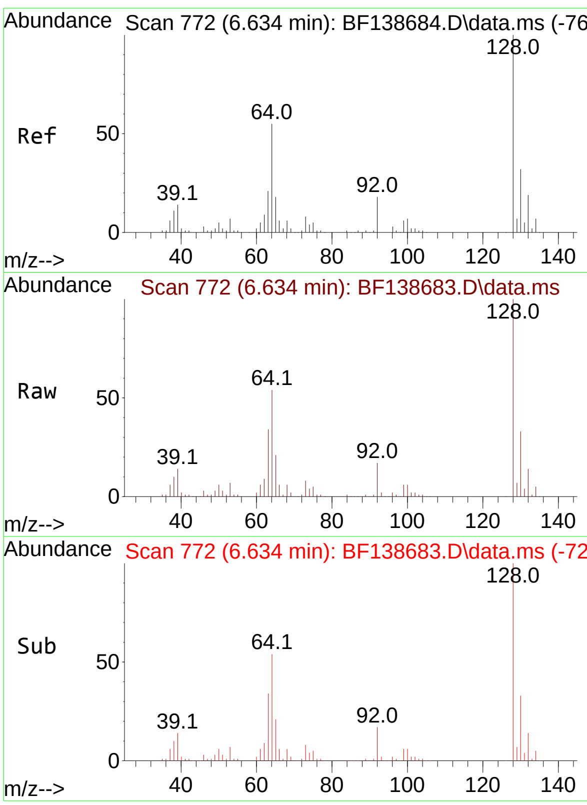


#7
Phenol-d6
Concen: 42.029 ng
RT: 6.481 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 99 Resp: 269991

Ion	Ratio	Lower	Upper
99	100		
42	22.2	17.4	26.0
71	34.9	28.1	42.1

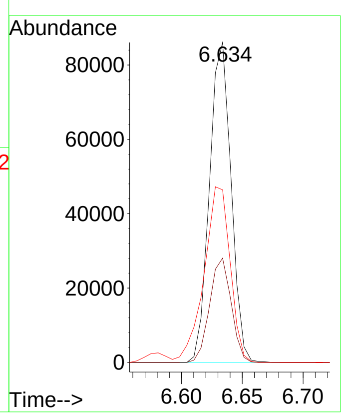




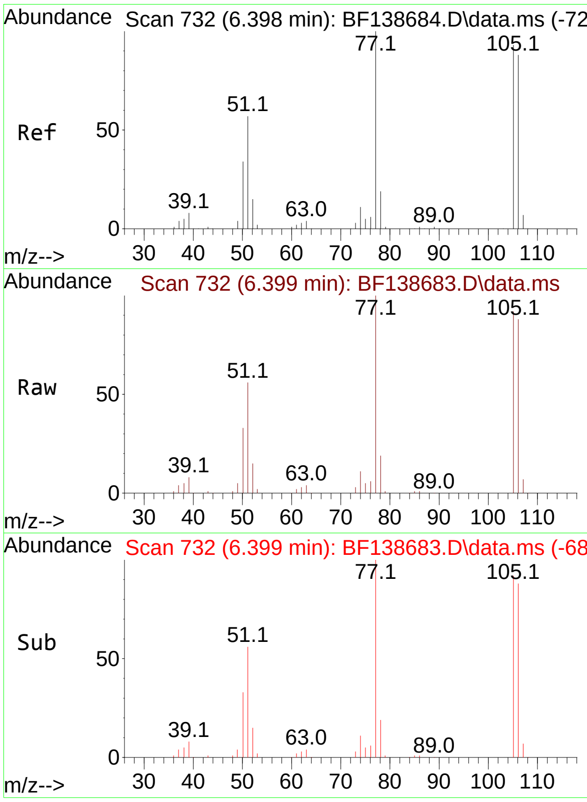
#8
2-Chlorophenol
Concen: 21.166 ng
RT: 6.634 min Scan# 772
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:128 Resp: 106548

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.0	52.0
64	54.0	36.3	76.3



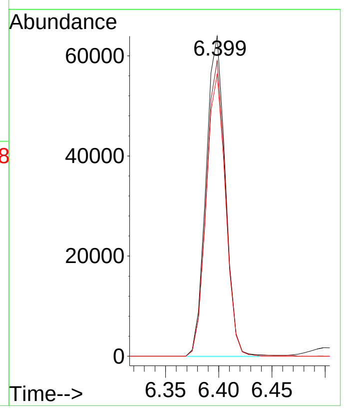
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

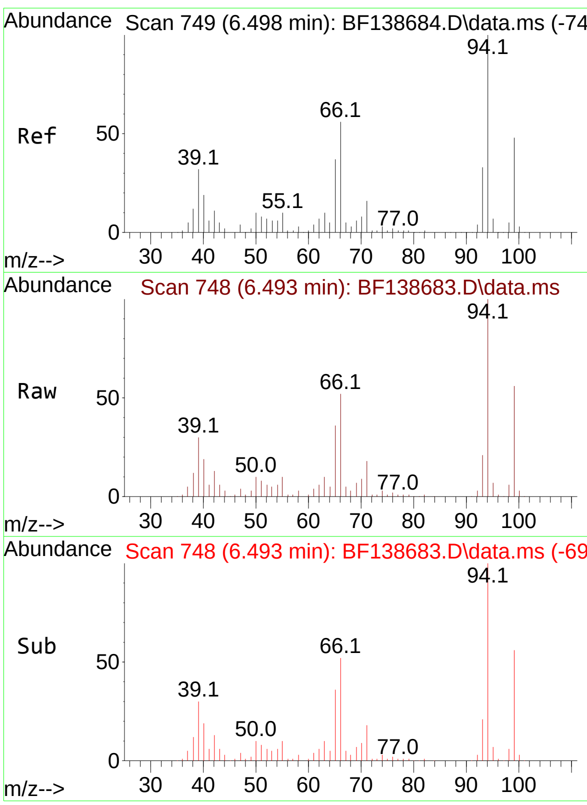


#9
Benzaldehyde
Concen: 21.071 ng
RT: 6.399 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 77 Resp: 81141

Ion	Ratio	Lower	Upper
77	100		
105	92.3	72.9	112.9
106	88.2	68.4	108.4

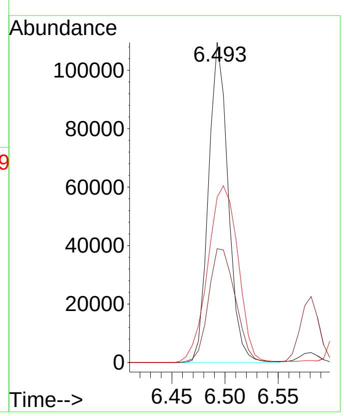




#10
Phenol
Concen: 20.890 ng
RT: 6.493 min Scan# 748
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

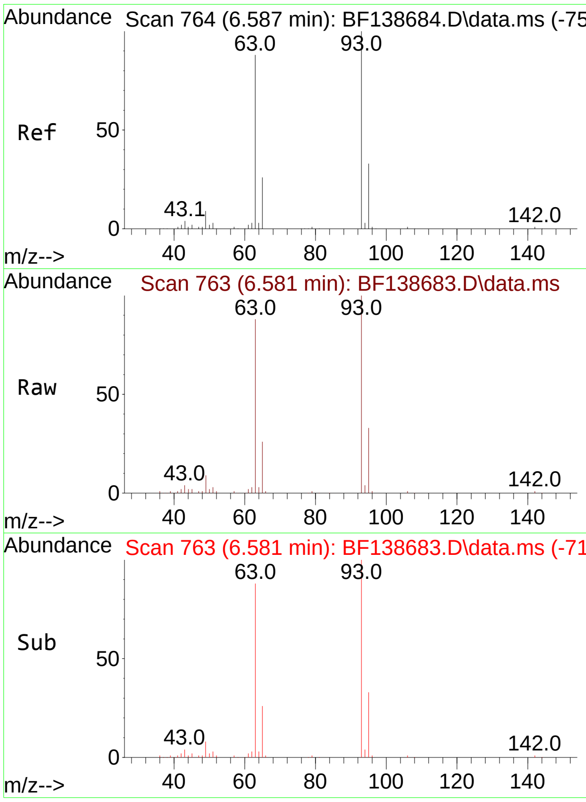
Tgt Ion: 94 Resp: 141295

Ion	Ratio	Lower	Upper
94	100		
65	35.6	16.9	56.9
66	51.7	36.5	76.5



ICAL Form

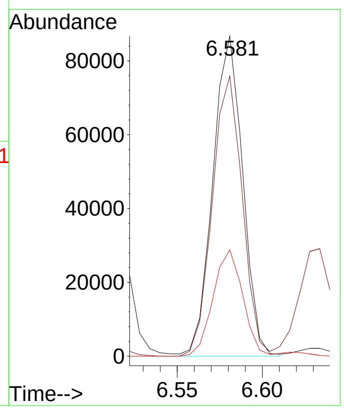
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

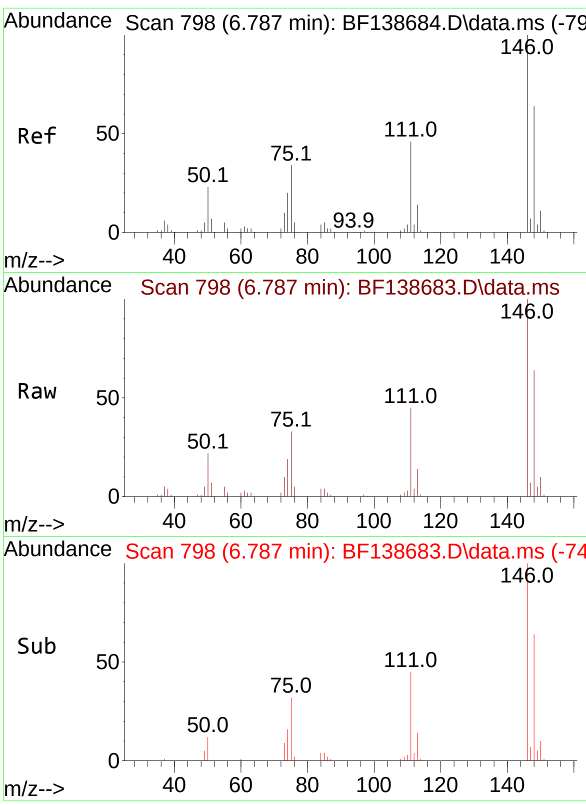


#11
bis(2-Chloroethyl)ether
Concen: 20.347 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 93 Resp: 105905

Ion	Ratio	Lower	Upper
93	100		
63	87.5	65.3	105.3
95	33.2	12.4	52.4

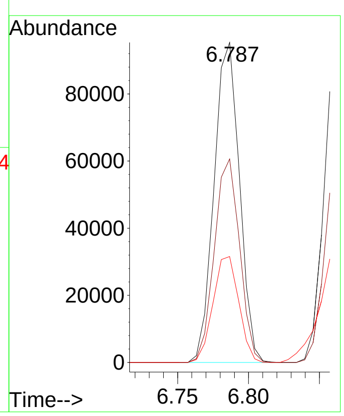




#12
1,3-Dichlorobenzene
Concen: 21.077 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

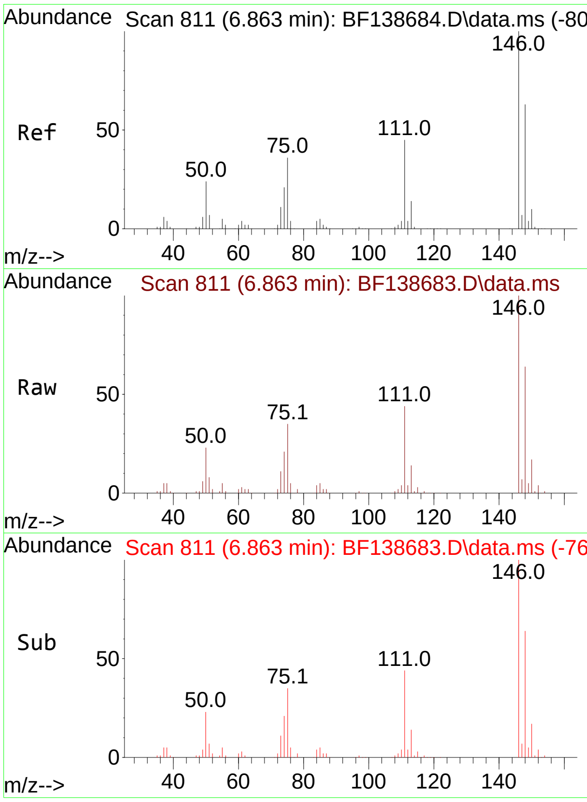
Tgt Ion:146 Resp: 118768

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.2	76.8
75	33.1	27.4	41.2



ICAL Form

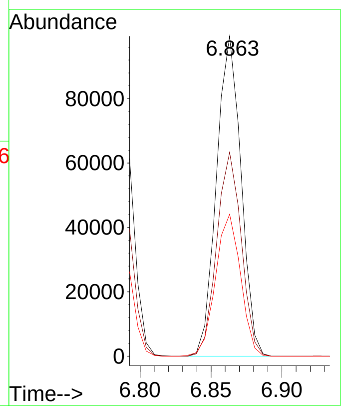
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

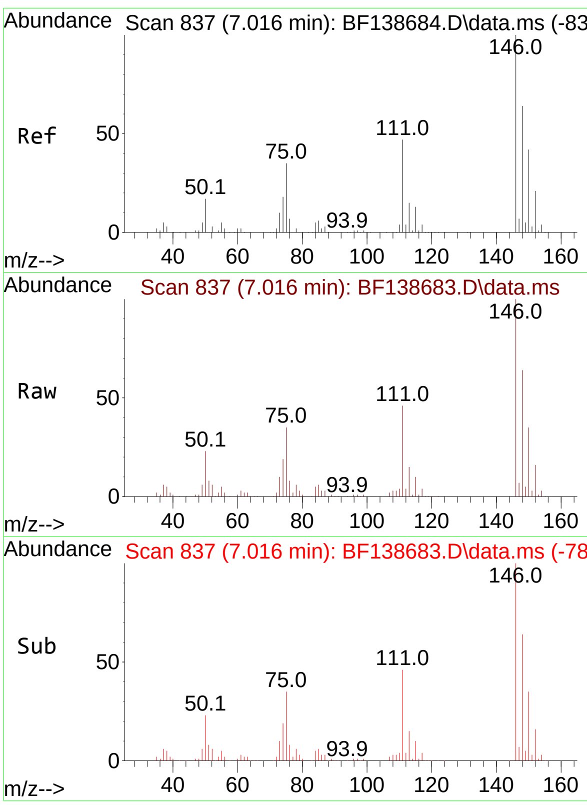


#13
1,4-Dichlorobenzene
Concen: 21.039 ng
RT: 6.863 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:146 Resp: 119642

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.2	75.2
111	44.4	35.9	53.9

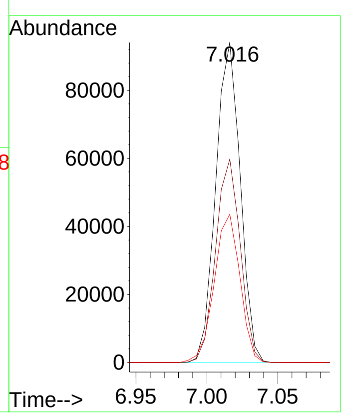




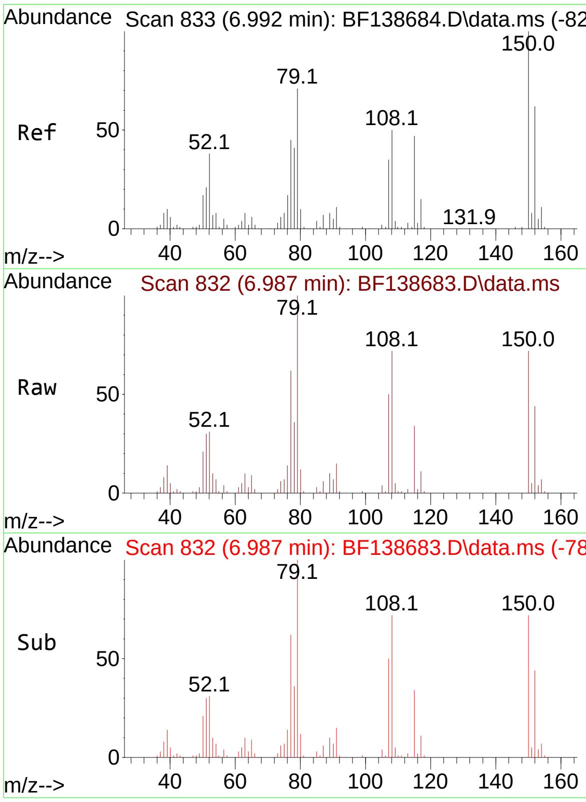
#14
1,2-Dichlorobenzene
Concen: 21.284 ng
RT: 7.016 min Scan# 837
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:146 Resp: 113116

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.8	76.2
111	46.3	37.4	56.2



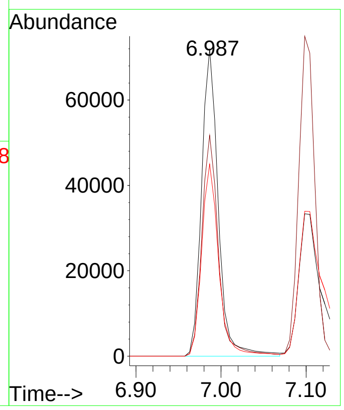
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

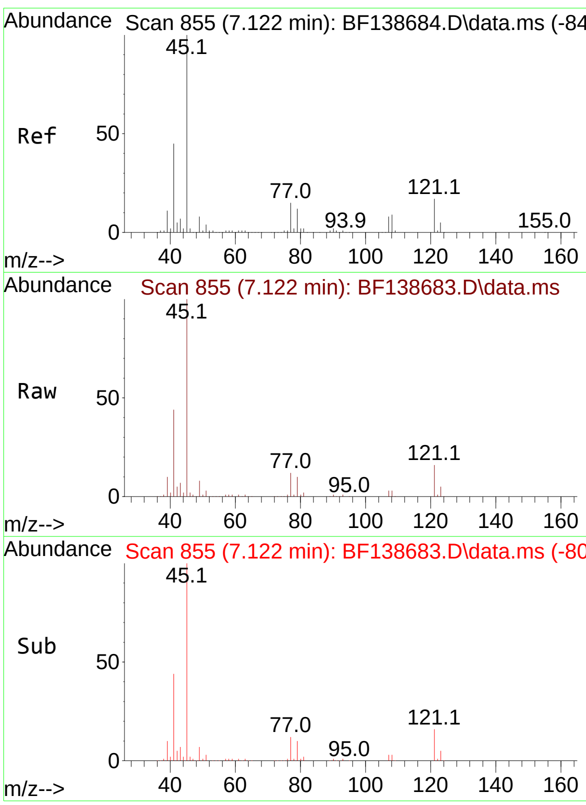


#15
Benzyl Alcohol
Concen: 21.284 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 79 Resp: 98544

Ion	Ratio	Lower	Upper
79	100		
108	71.9	56.6	85.0
77	62.5	50.3	75.5

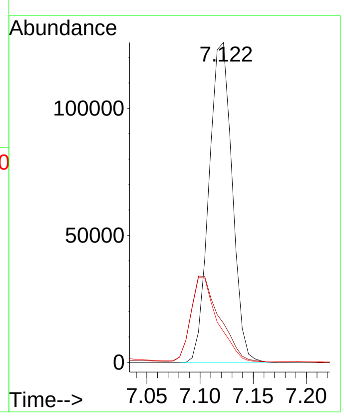




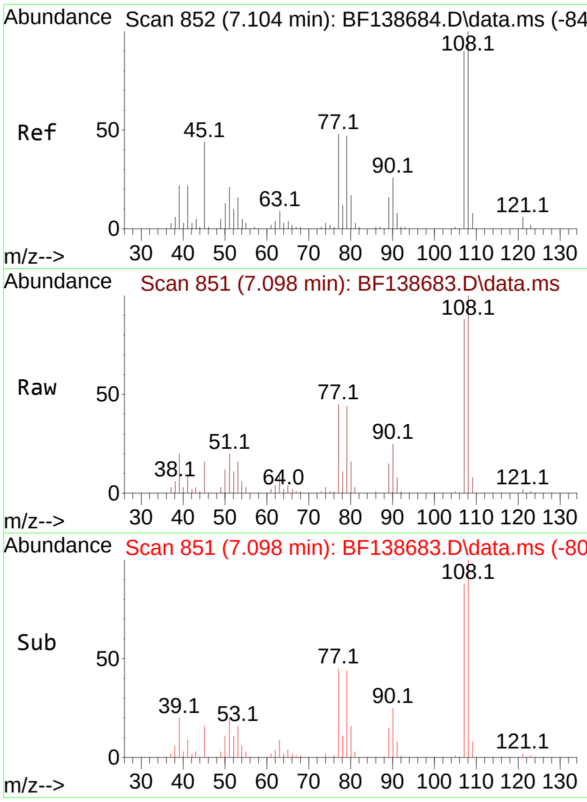
#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.369 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 45 Resp: 191406

Ion	Ratio	Lower	Upper
45	100		
77	12.3	0.0	34.9
79	9.7	0.0	32.2



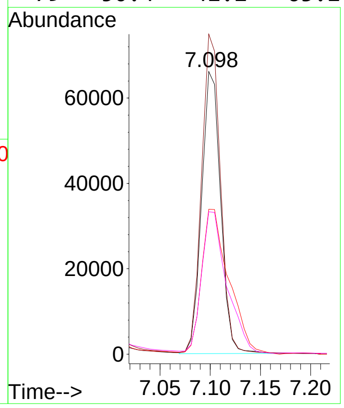
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

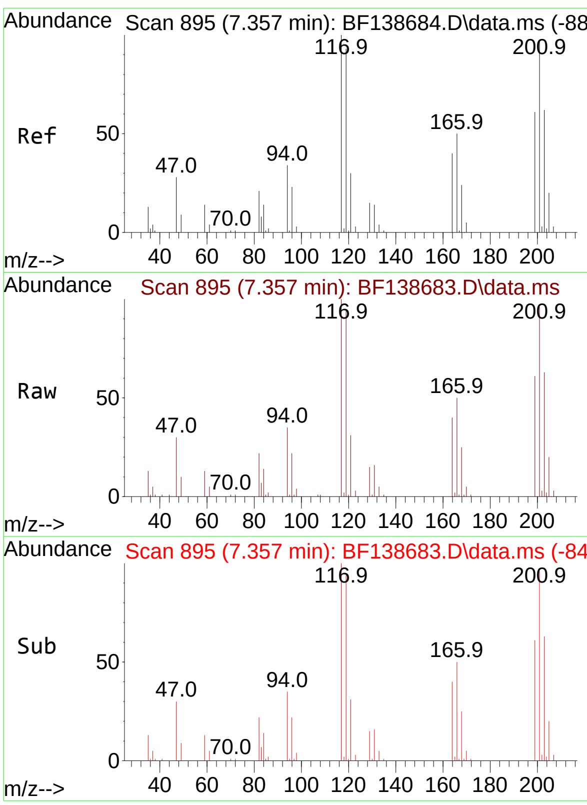


#17
2-Methylphenol
Concen: 21.024 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:107 Resp: 87392

Ion	Ratio	Lower	Upper
107	100		
108	113.3	89.2	133.8
77	51.3	43.0	64.4
79	50.4	42.2	63.2

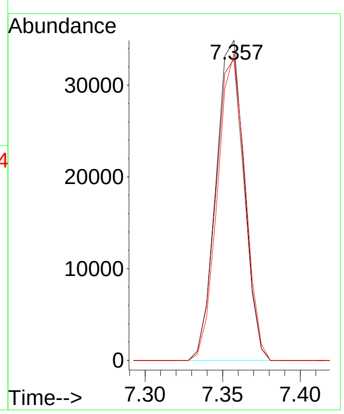




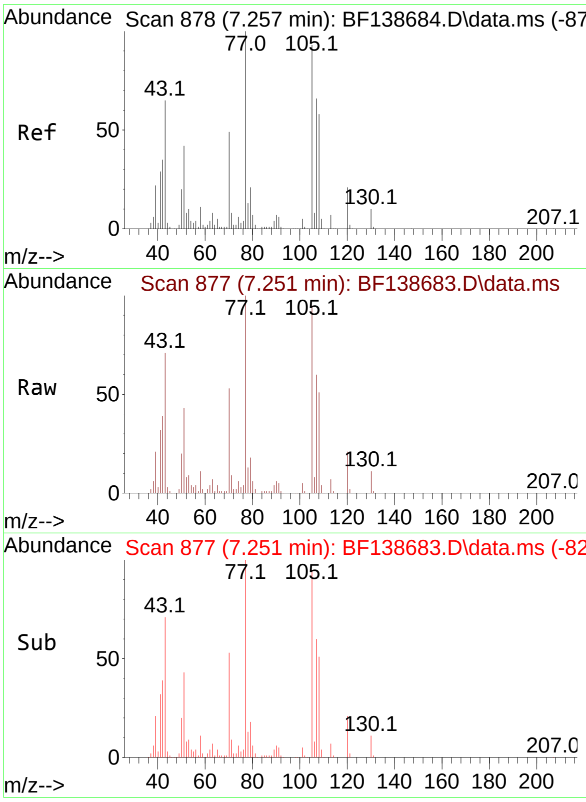
#18
Hexachloroethane
Concen: 20.620 ng
RT: 7.357 min Scan# 895
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:117 Resp: 44140

Ion	Ratio	Lower	Upper
117	100		
119	94.2	74.6	111.8
201	95.8	77.2	115.8



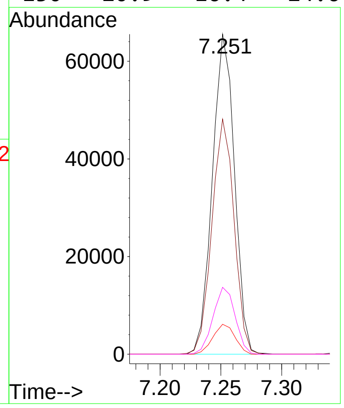
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

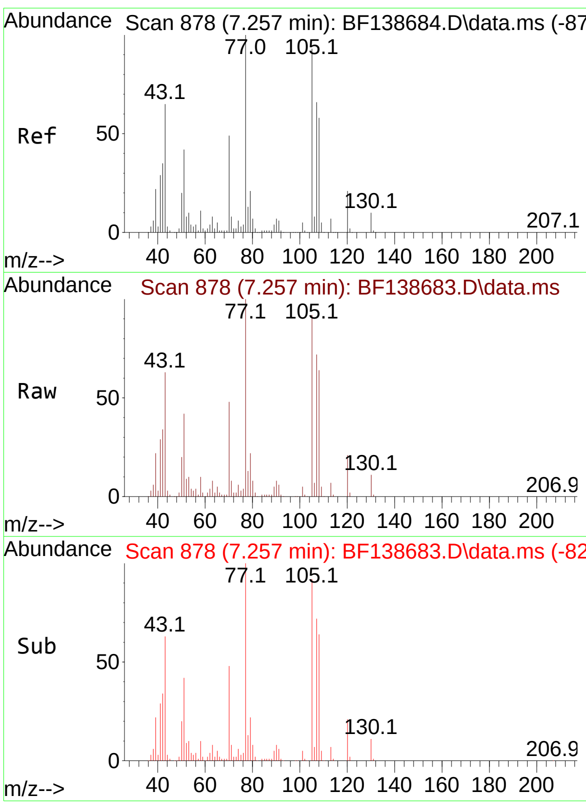


#19
n-Nitroso-di-n-propylamine
Concen: 21.369 ng
RT: 7.251 min   Scan# 8
Delta R.T.   -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024   14:25

Tgt Ion: 70 Resp: 82912

Ion	Ratio	Lower	Upper
70	100		
42	73.4	57.4	86.0
101	9.4	7.5	11.3
130	20.9	16.4	24.6

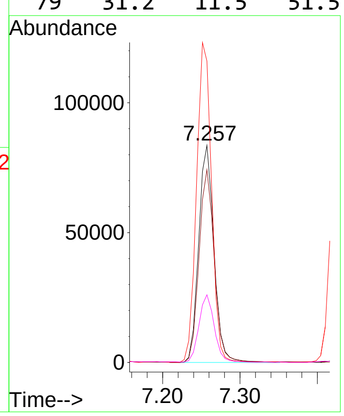




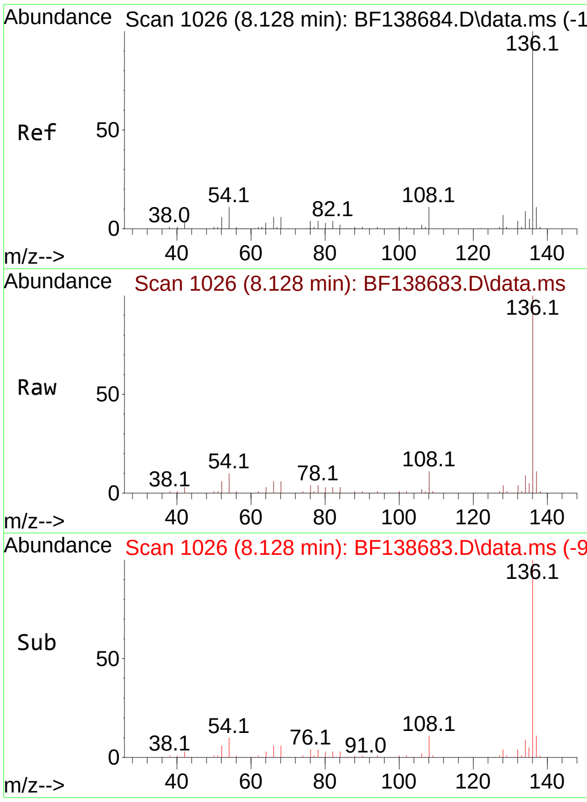
#20
3+4-Methylphenols
Concen: 21.577 ng
RT: 7.257 min   Scan# 878
Delta R.T.   0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024   14:25

Tgt Ion:107 Resp: 115081

Ion	Ratio	Lower	Upper
107	100		
108	88.8	68.2	108.2
77	138.7	132.1	172.1
79	31.2	11.5	51.5



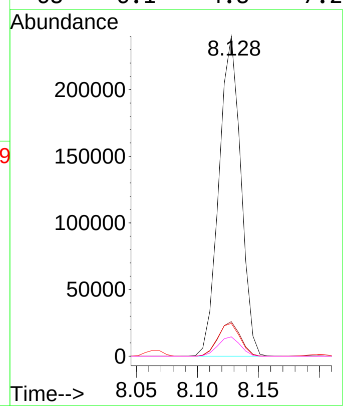
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

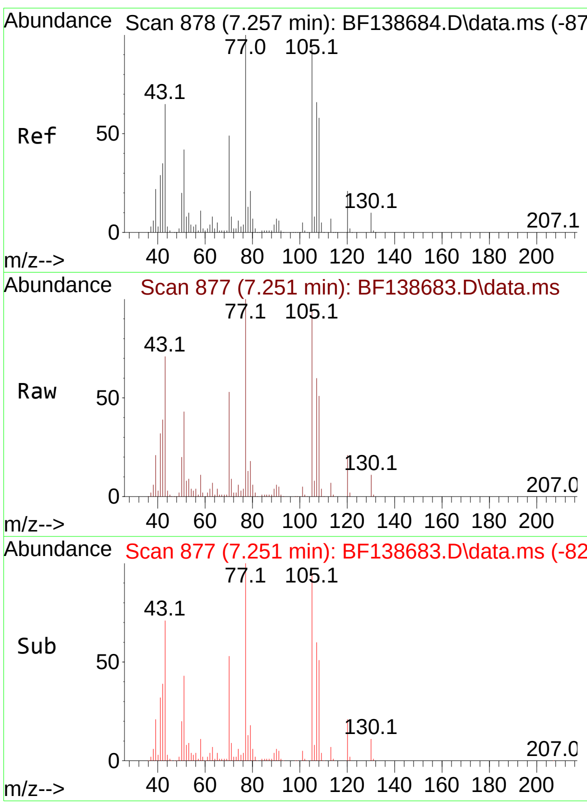


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:136 Resp: 300790

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	10.3	8.6	12.8
68	6.1	4.8	7.2

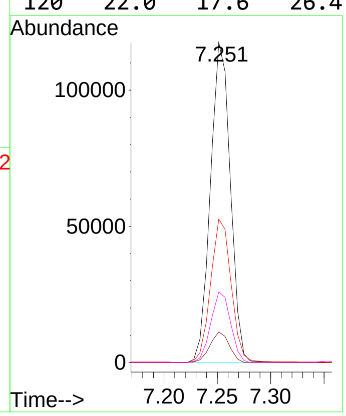




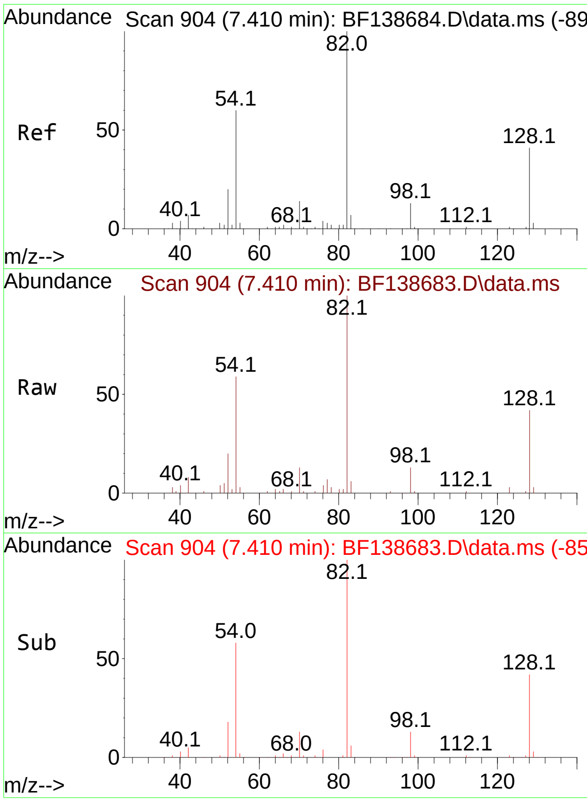
#22
Acetophenone
Concen: 20.738 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:105 Resp: 152730

Ion	Ratio	Lower	Upper
105	100		
71	9.6	7.2	10.8
51	44.8	35.9	53.9
120	22.0	17.6	26.4



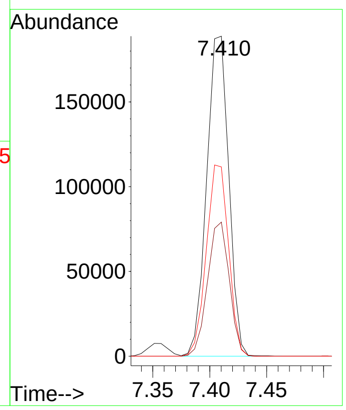
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

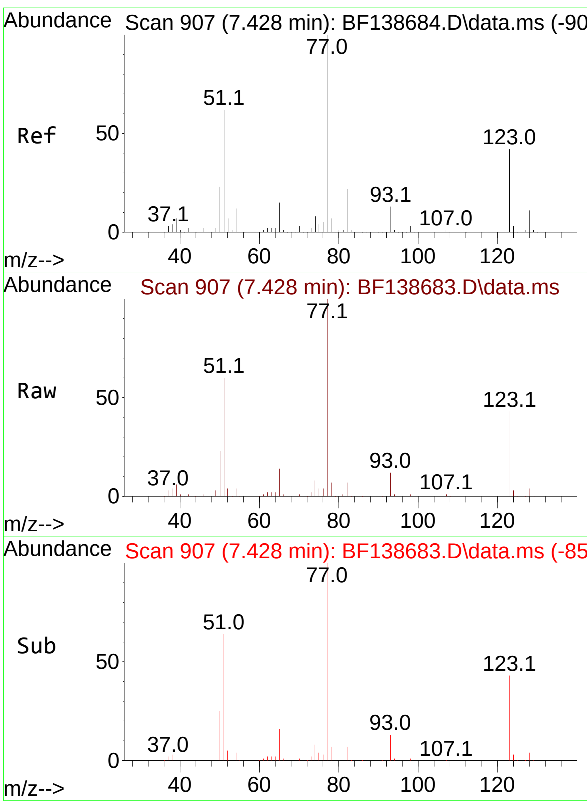


#23
Nitrobenzene-d5
Concen: 41.480 ng
RT: 7.410 min Scan# 90
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 82 Resp: 255192

Ion	Ratio	Lower	Upper
82	100		
128	41.9	32.8	49.2
54	59.2	48.3	72.5

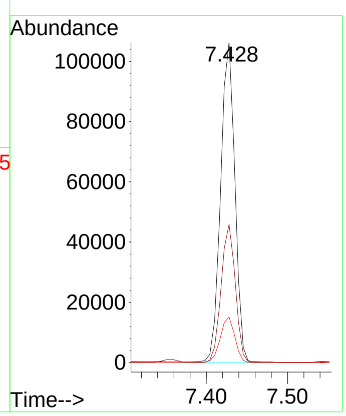




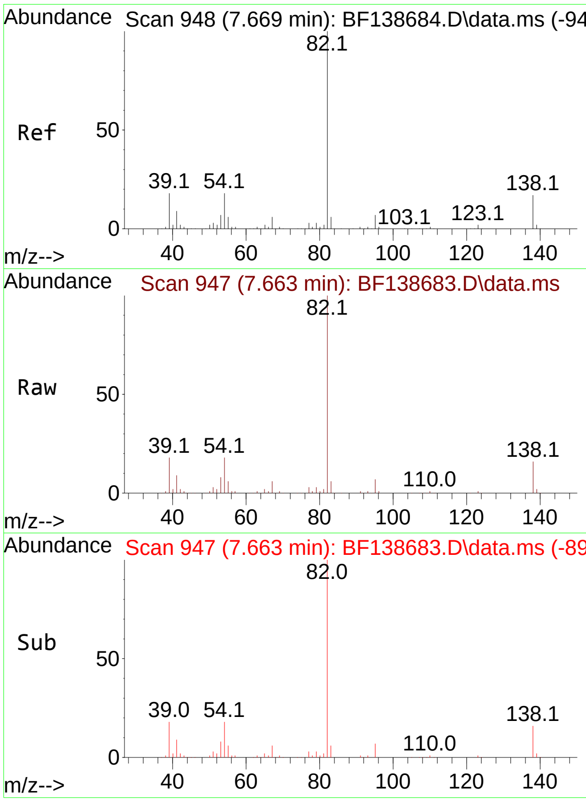
#24
Nitrobenzene
Concen: 20.819 ng
RT: 7.428 min Scan# 907
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 77 Resp: 130332

Ion	Ratio	Lower	Upper
77	100		
123	43.2	33.3	49.9
65	14.2	11.9	17.9



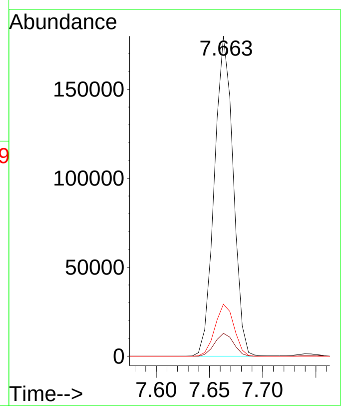
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

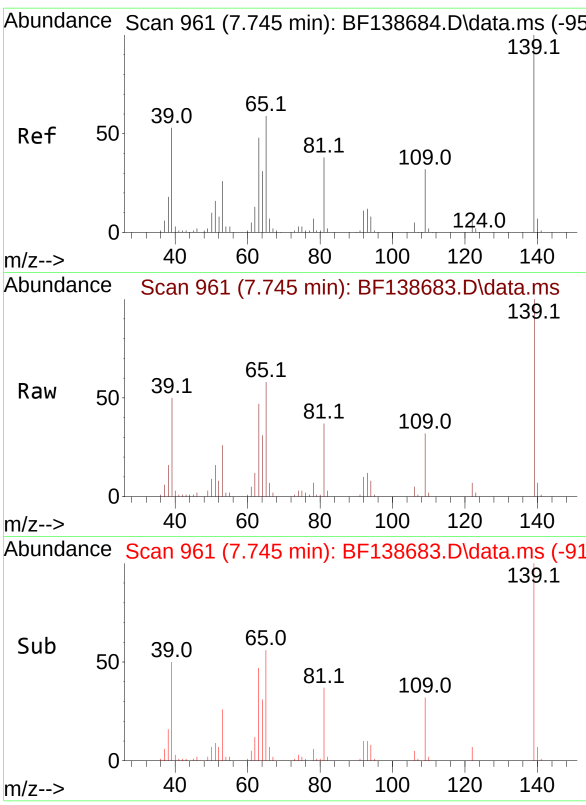


#25
Isophorone
Concen: 21.034 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 82 Resp: 220971

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.7	8.5
138	16.3	13.7	20.5

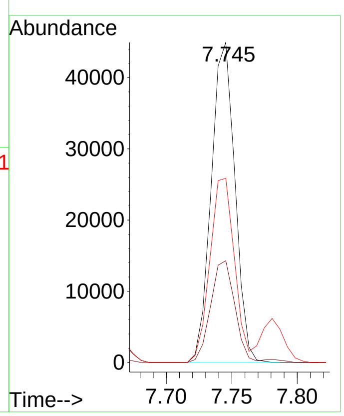




#26
2-Nitrophenol
Concen: 21.006 ng
RT: 7.745 min Scan# 961
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

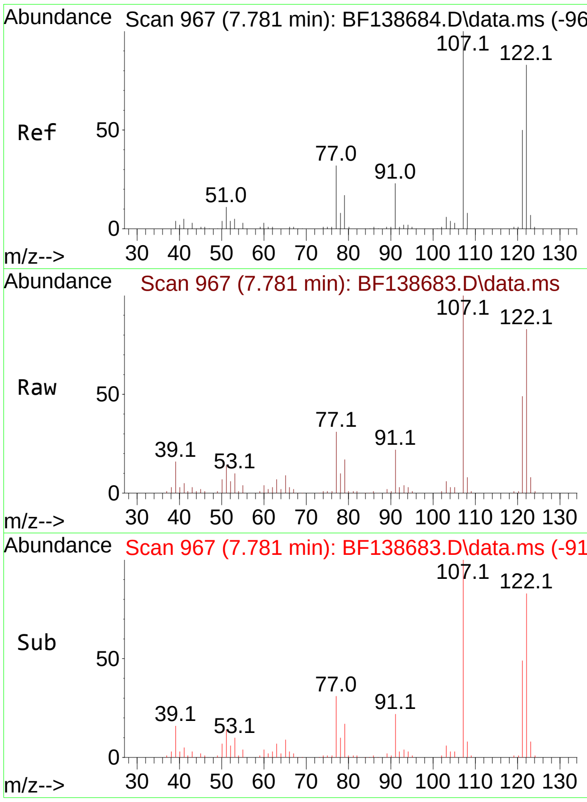
Tgt Ion:139 Resp: 56578

Ion	Ratio	Lower	Upper
139	100		
109	31.8	25.9	38.9
65	57.6	47.0	70.6

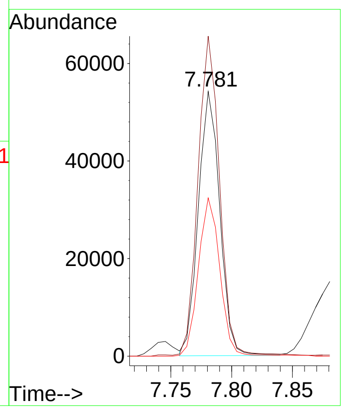


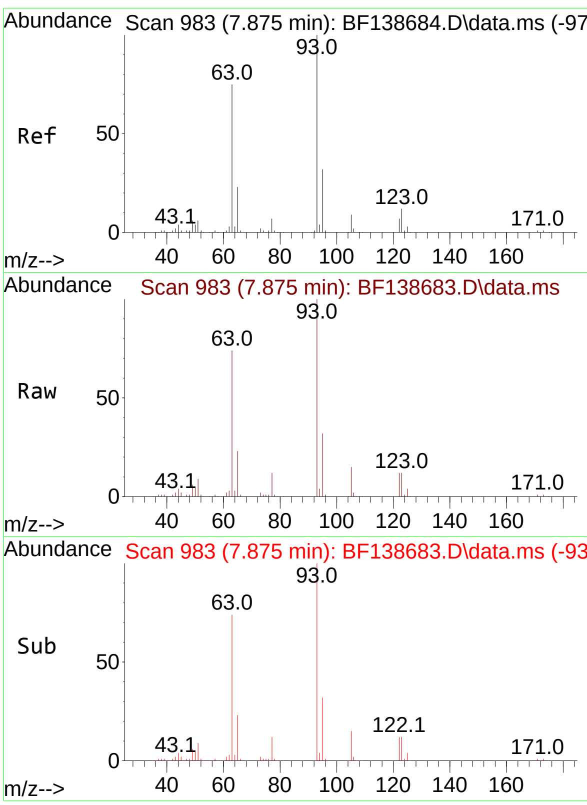
ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

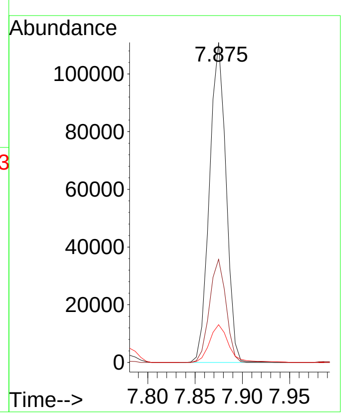



```
#27
2,4-Dimethylphenol
Concen:   20.620 ng
RT:   7.781 min  Scan# 9
Delta R.T.  0.000 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion:122 Resp:   66449
Ion  Ratio  Lower  Upper
122  100
107  120.9   95.0  142.6
121   59.8   47.3   70.9
```

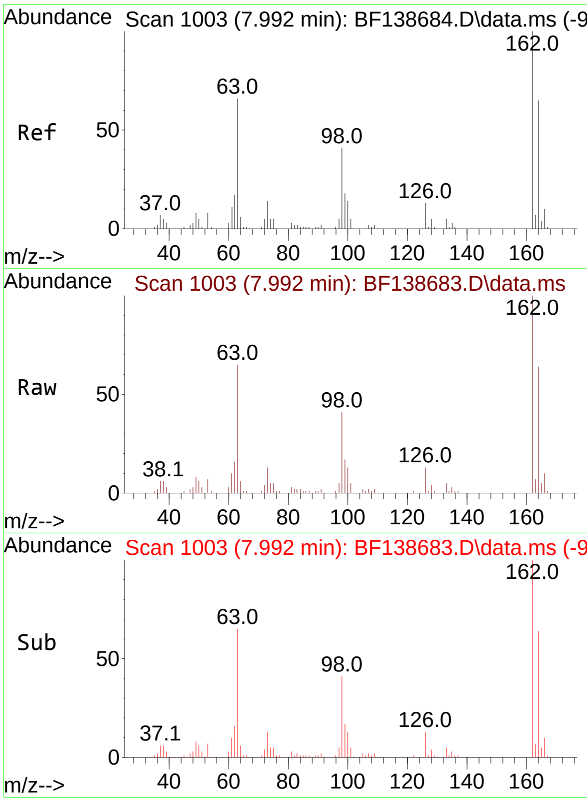





```
#28
bis(2-Chloroethoxy)methane
Concen:   21.118 ng
RT:   7.875 min  Scan# 983
Delta R.T.  0.000 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion: 93 Resp:  135096
Ion  Ratio  Lower  Upper
 93  100
 95   32.3   25.8   38.8
123   11.8    9.4   14.0
```



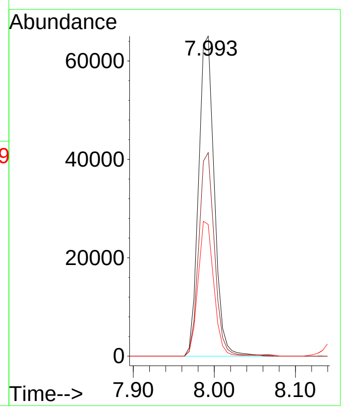
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

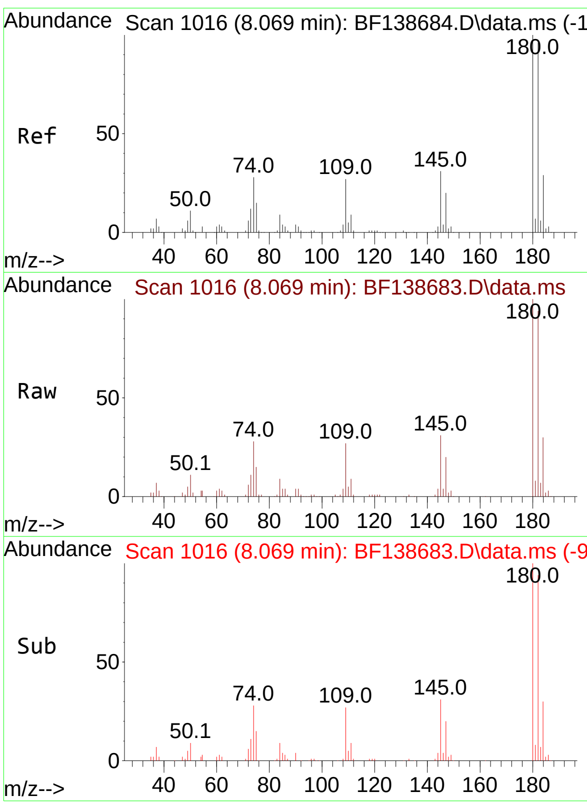


#29
2,4-Dichlorophenol
Concen: 21.289 ng
RT: 7.992 min Scan# 10
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:162 Resp: 88156

Ion	Ratio	Lower	Upper
162	100		
164	63.6	44.7	84.7
98	41.1	20.8	60.8

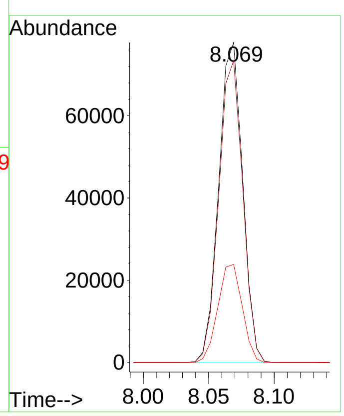




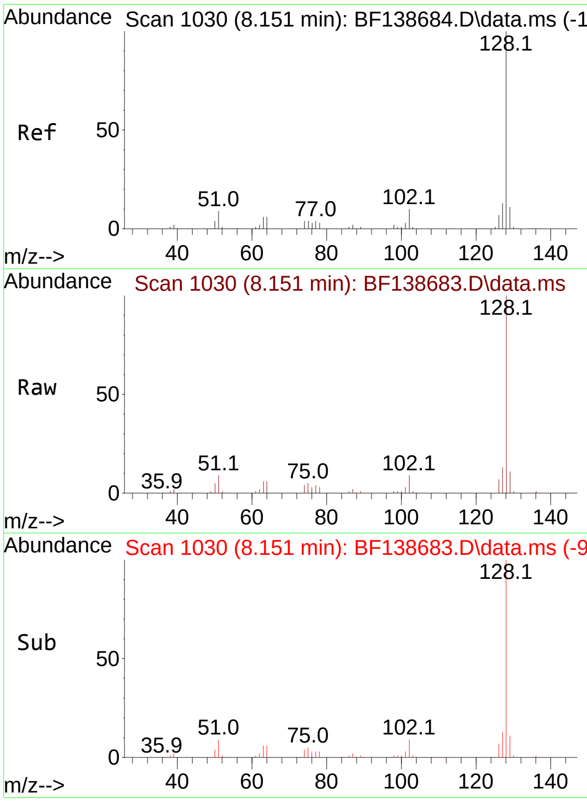
#30
1,2,4-Trichlorobenzene
Concen: 20.697 ng
RT: 8.069 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:180 Resp: 98908

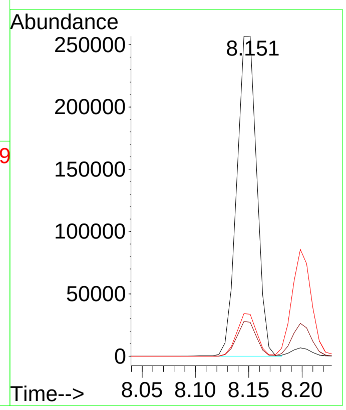
Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.9	115.3
145	30.7	25.0	37.4

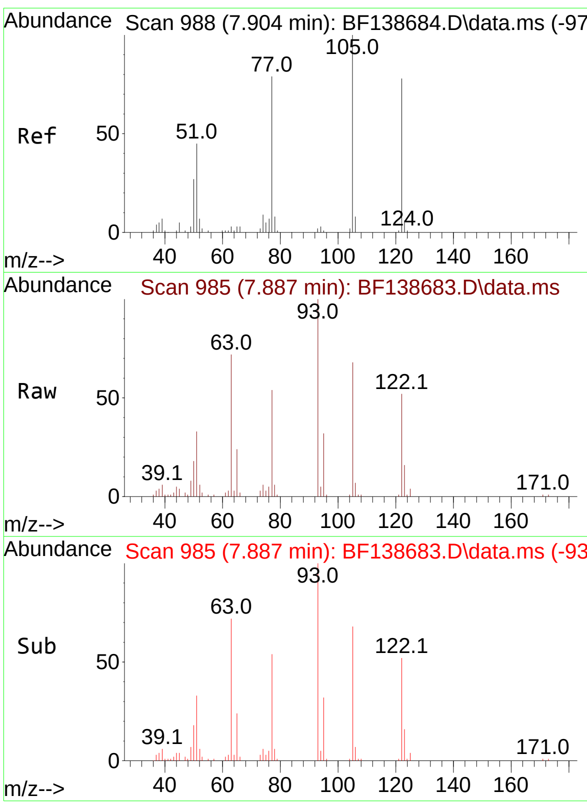


Instrument : BNA_F
ClientSampleId : SSTDICC020

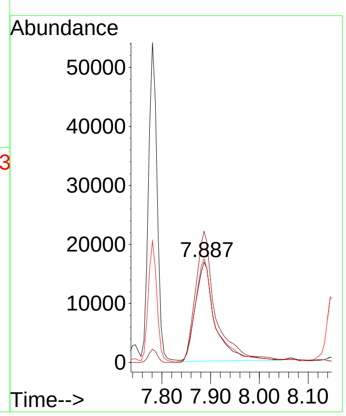



```
#31
Naphthalene
Concen:   21.084 ng
RT:   8.151 min  Scan# 10
Delta R.T.  0.000 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion:128 Resp:  333821
Ion  Ratio  Lower  Upper
128  100
129   10.6    8.7   13.1
127   13.1   10.6   16.0
```

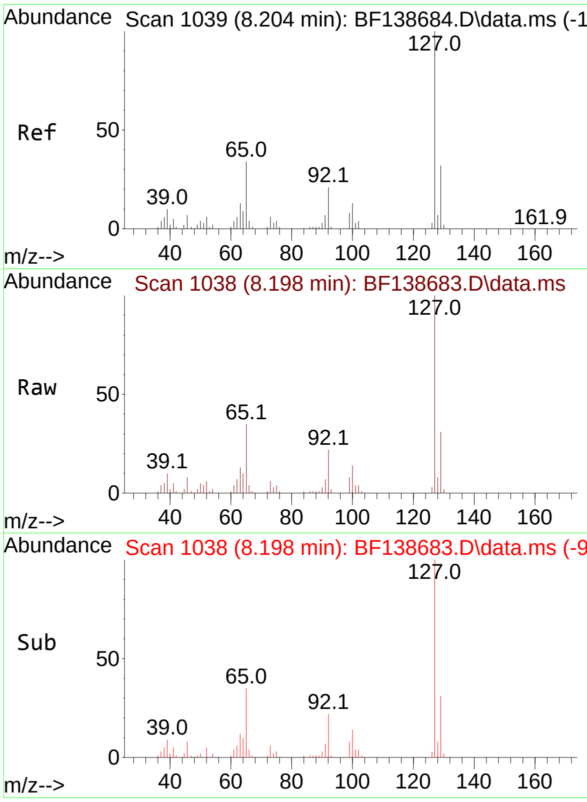





```
#32
Benzoic acid
Concen:   18.740 ng
RT:   7.887 min  Scan# 985
Delta R.T.  -0.017 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion:122 Resp:   47452
Ion  Ratio  Lower  Upper
122  100
105  130.8  106.7  146.7
 77  103.7   81.1  121.1
```



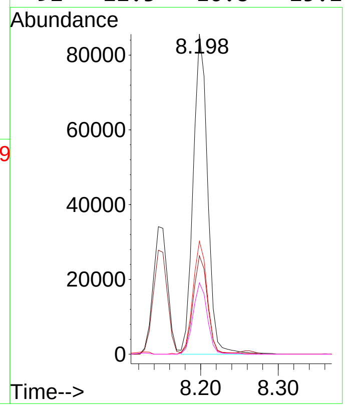
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

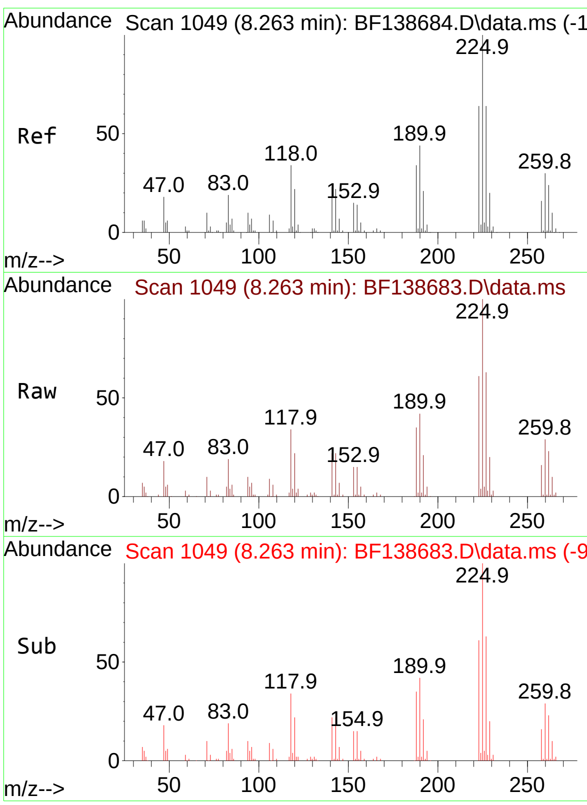


#33
4-Chloroaniline
Concen: 20.887 ng
RT: 8.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:127 Resp: 111005

Ion	Ratio	Lower	Upper
127	100		
129	30.7	25.9	38.9
65	35.3	27.6	41.4
92	22.3	16.8	25.2

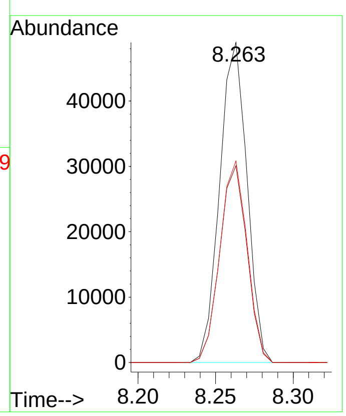




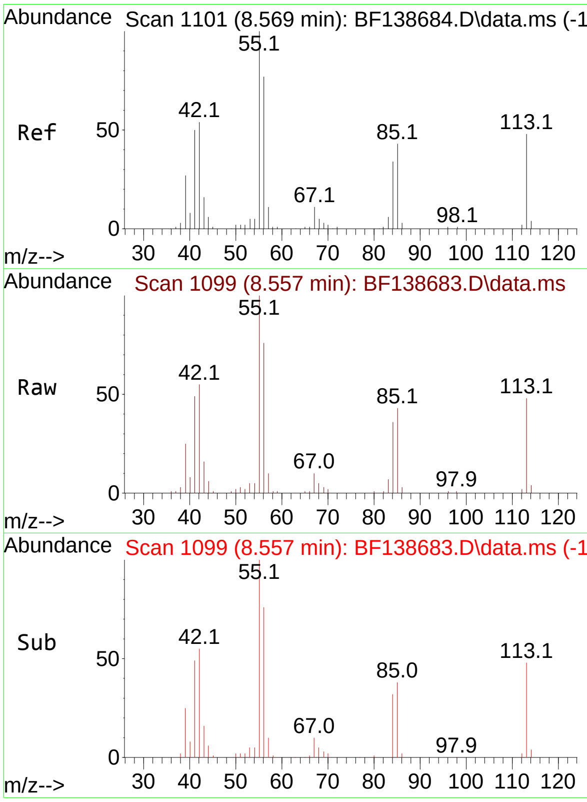
#34
Hexachlorobutadiene
Concen: 20.749 ng
RT: 8.263 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:225 Resp: 60058

Ion	Ratio	Lower	Upper
225	100		
223	61.5	51.2	76.8
227	62.9	51.1	76.7



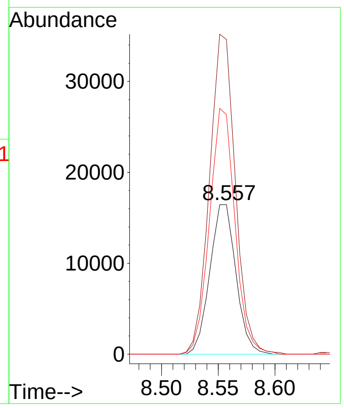
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

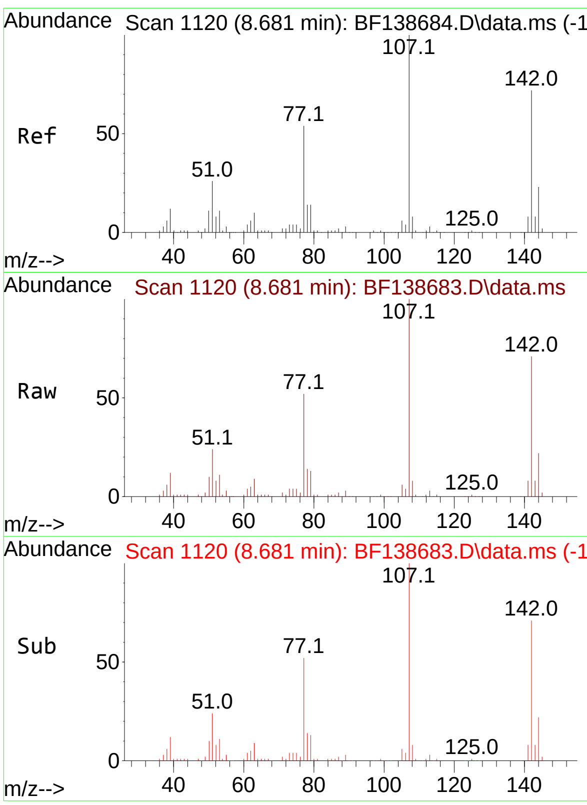


#35
Caprolactam
Concen: 21.333 ng
RT: 8.557 min   Scan# 1
Delta R.T.   -0.012 min
Lab File: BF138683.D
Acq: 30 Jul 2024   14:25

Tgt Ion:113 Resp: 26359

Ion	Ratio	Lower	Upper
113	100		
55	210.5	186.7	226.7
56	160.2	138.9	178.9

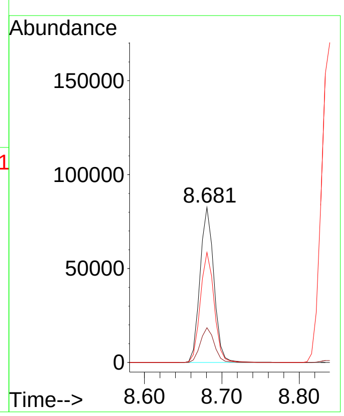




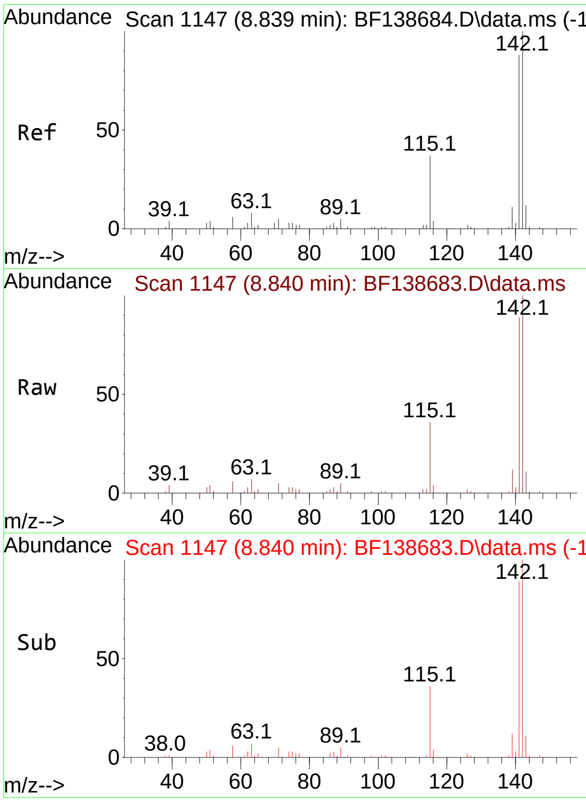
#36
4-Chloro-3-methylphenol
Concen: 21.794 ng
RT: 8.681 min   Scan# 1120
Delta R.T.   0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024   14:25

Tgt Ion:107 Resp: 103141

Ion	Ratio	Lower	Upper
107	100		
144	22.4	18.2	27.2
142	70.9	57.4	86.2



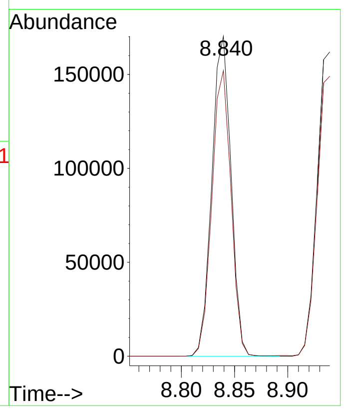
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

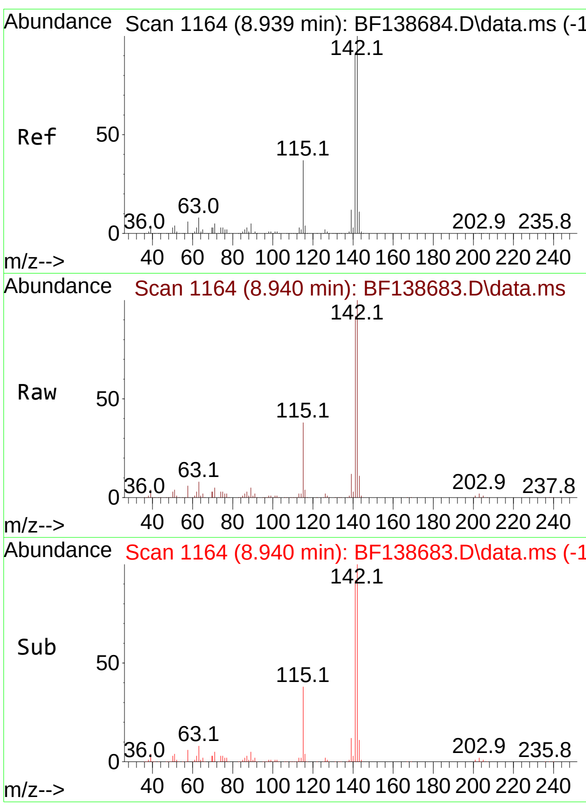


#37
2-Methylnaphthalene
Concen: 21.323 ng
RT: 8.840 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:142 Resp: 213210

Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.8	106.2

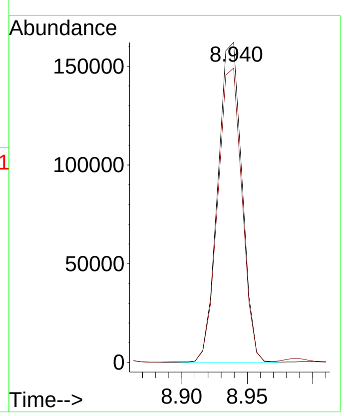




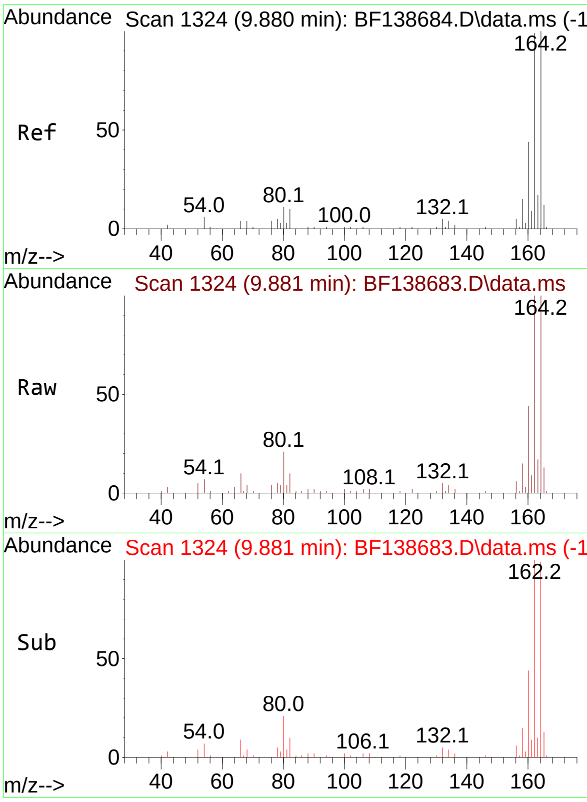
#38
1-Methylnaphthalene
Concen: 21.253 ng
RT: 8.940 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:142 Resp: 208242

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.1	109.7



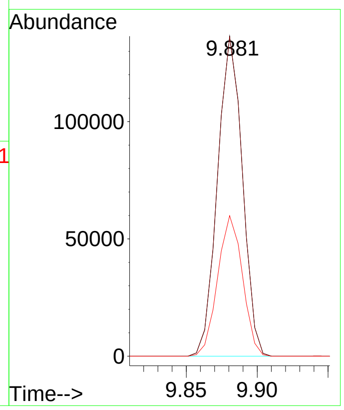
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

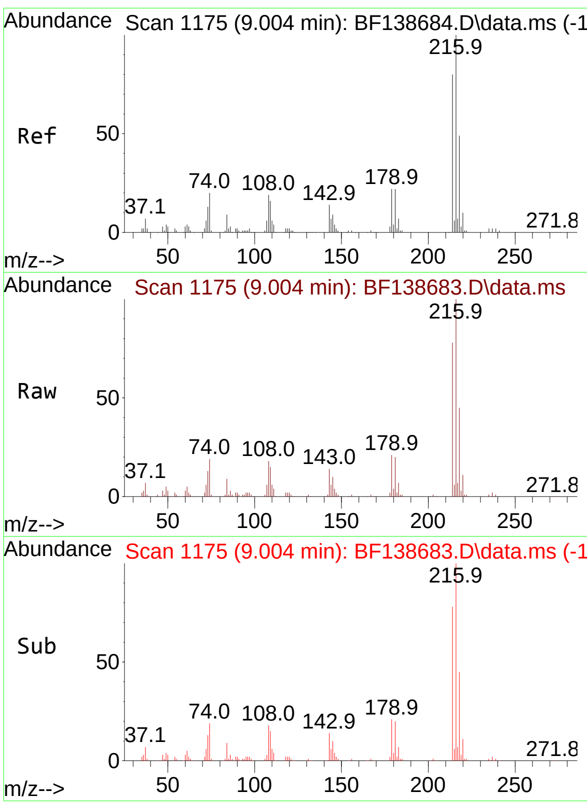


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:164 Resp: 166031

Ion	Ratio	Lower	Upper
164	100		
162	99.8	79.4	119.0
160	43.9	35.1	52.7

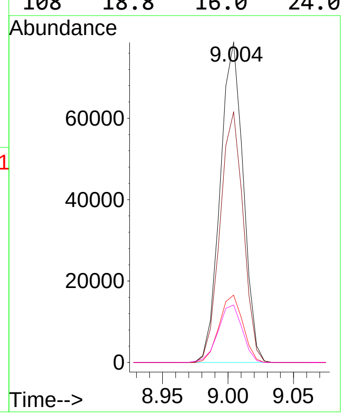




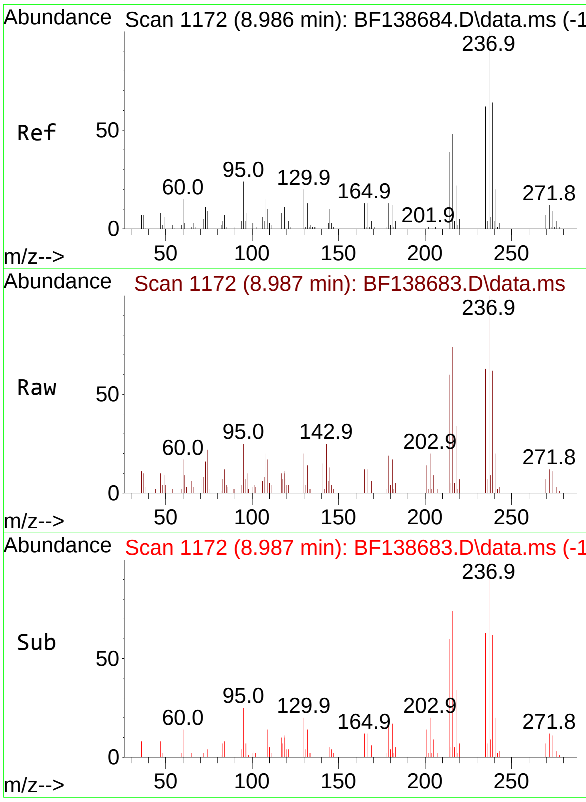
#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.924 ng
RT: 9.004 min Scan# 1175
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:216 Resp: 96503

Ion	Ratio	Lower	Upper
216	100		
214	78.5	63.9	95.9
179	21.5	17.8	26.6
108	18.8	16.0	24.0



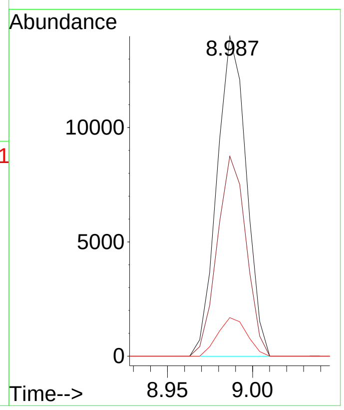
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

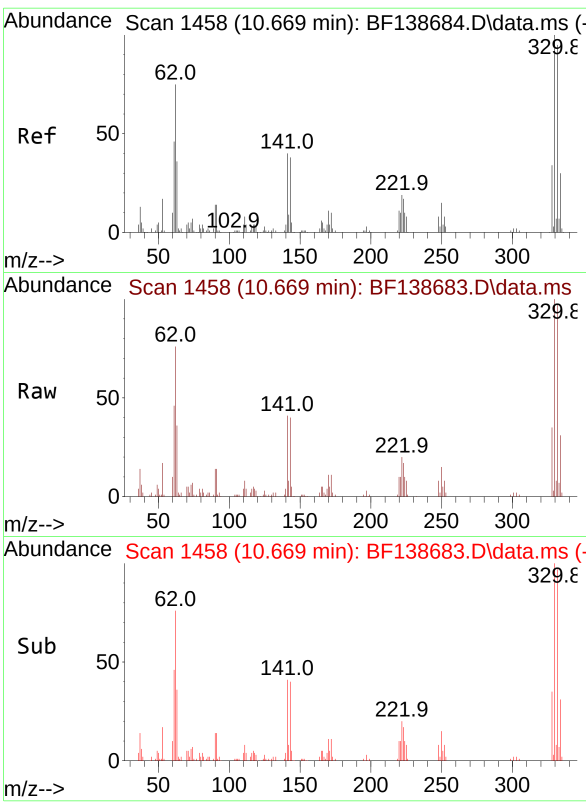


#41
Hexachlorocyclopentadiene
Concen: 19.505 ng
RT: 8.987 min   Scan# 1
Delta R.T.   0.001 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:237 Resp: 16767

Ion	Ratio	Lower	Upper
237	100		
235	62.5	41.8	81.8
272	12.0	0.0	32.2

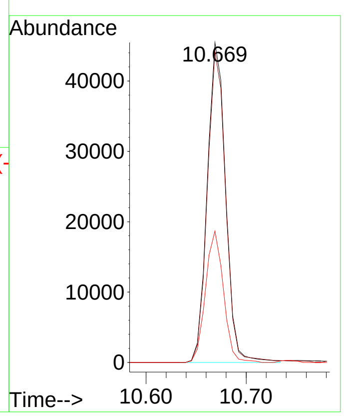




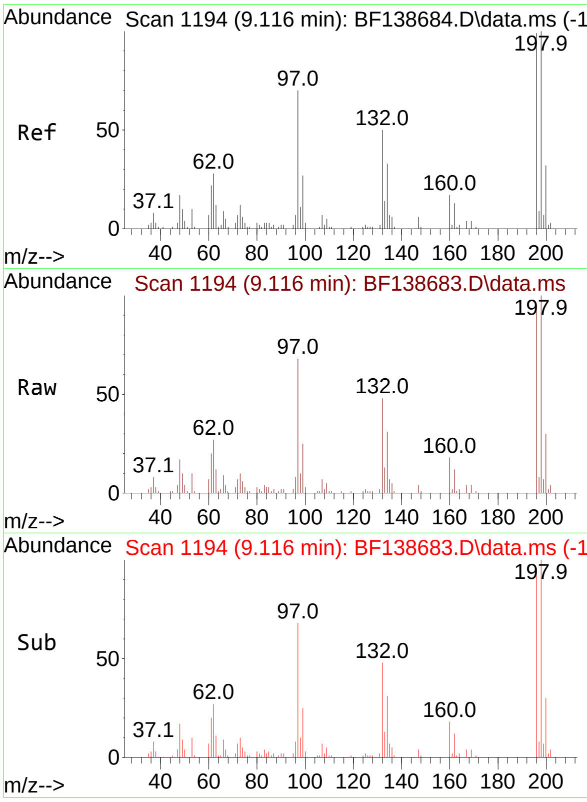
#42
2,4,6-Tribromophenol
Concen: 42.922 ng
RT: 10.669 min   Scan# 1458
Delta R.T.   0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:330 Resp: 58374

Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.4	114.6
141	39.9	31.1	46.7



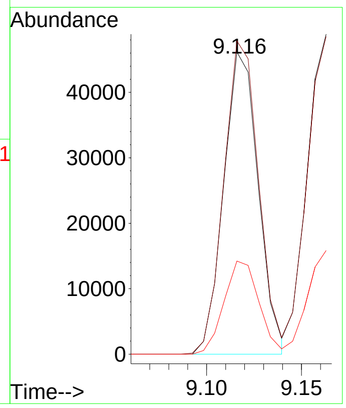
Instrument : BNA_F
ClientSampleId : SSTDICC020

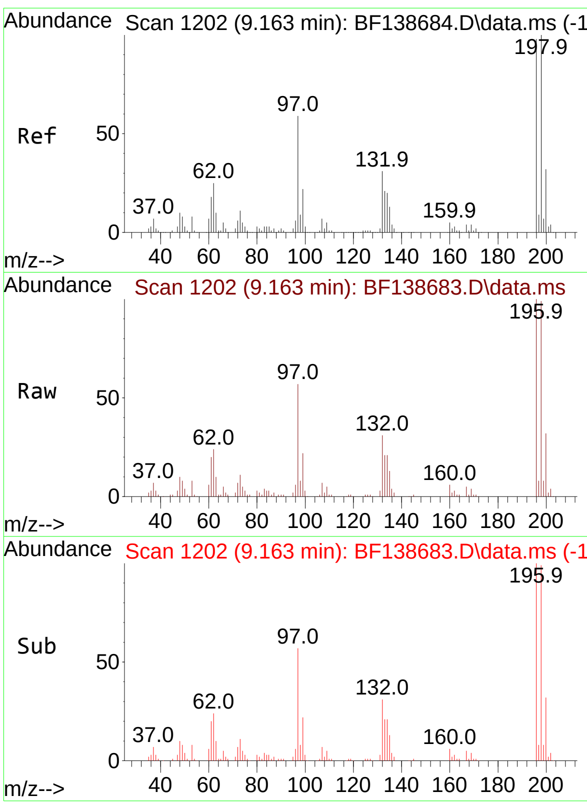


#43
2,4,6-Trichlorophenol
Concen: 20.830 ng
RT: 9.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:196 Resp: 58575

Ion	Ratio	Lower	Upper
196	100		
198	103.7	80.5	120.7
200	30.8	25.9	38.9

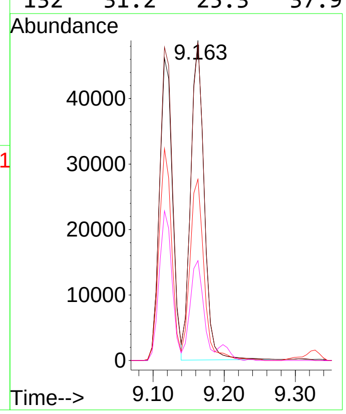




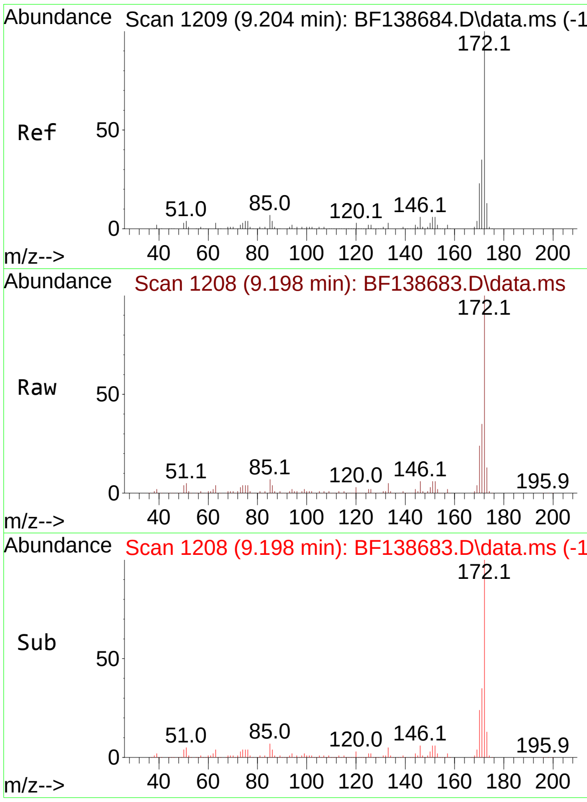
#44
2,4,5-Trichlorophenol
Concen: 20.907 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:196 Resp: 64272

Ion	Ratio	Lower	Upper
196	100		
198	99.3	81.2	121.8
97	56.7	47.8	71.6
132	31.2	25.3	37.9



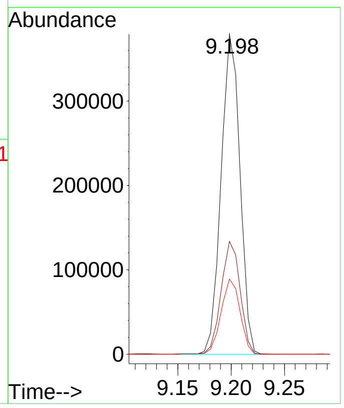
Instrument : BNA_F
ClientSampleId : SSTDICC020

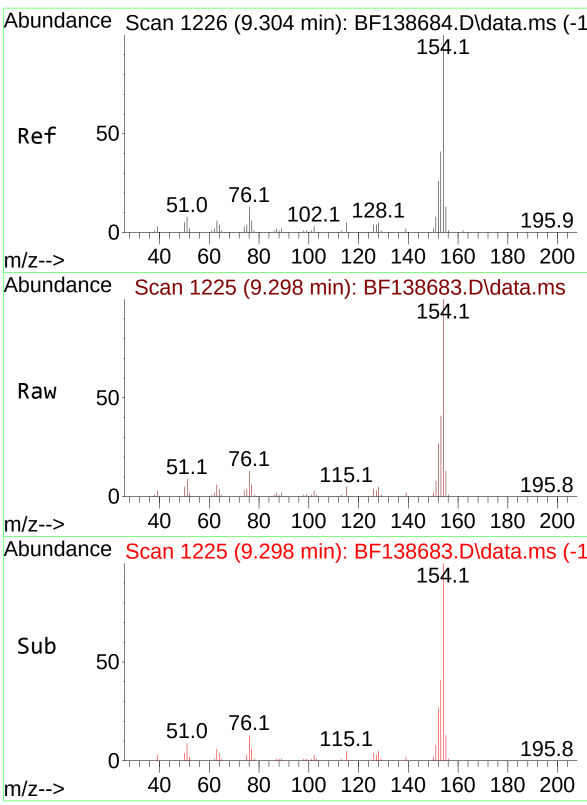


#45
2-Fluorobiphenyl
Concen: 42.138 ng
RT: 9.198 min Scan# 1208
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:172 Resp: 465641

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.3	42.5
170	23.5	18.8	28.2

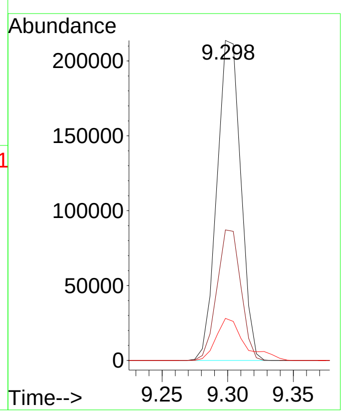




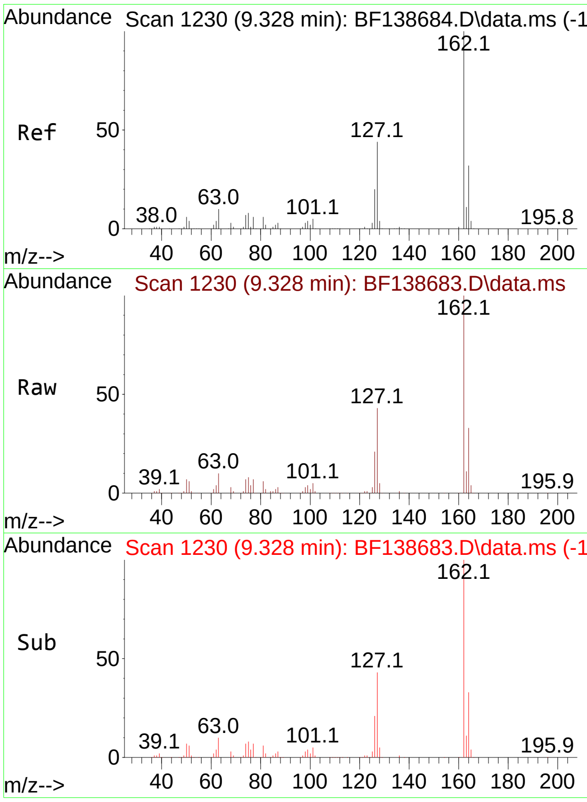
#46
1,1'-Biphenyl
Concen: 20.807 ng
RT: 9.298 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:154 Resp: 270560

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.8	60.8
76	13.2	0.0	32.8



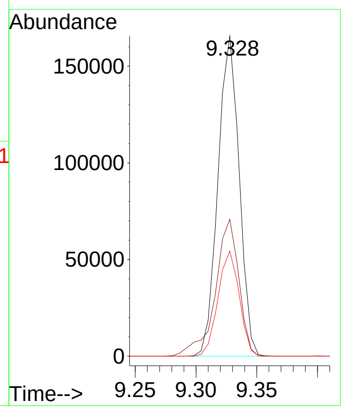
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

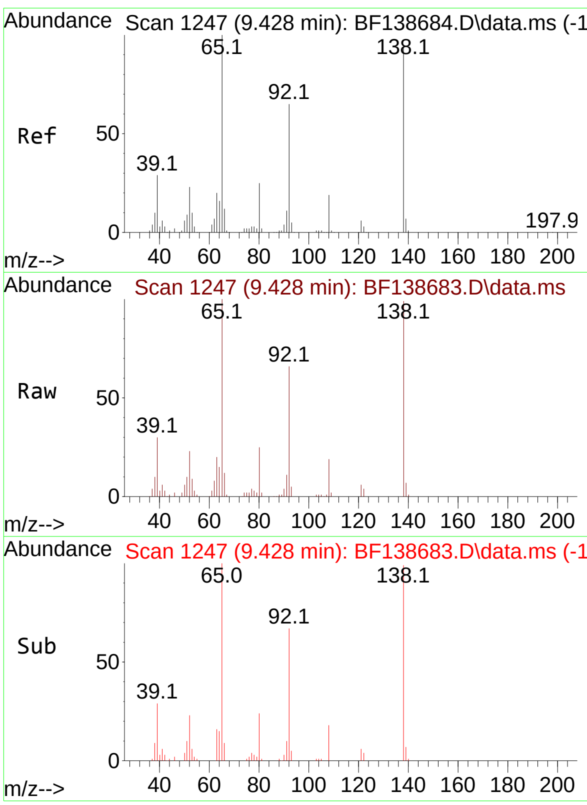


#47
2-Chloronaphthalene
Concen: 20.822 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:162 Resp: 201367

Ion	Ratio	Lower	Upper
162	100		
127	42.8	35.4	53.2
164	32.9	25.6	38.4

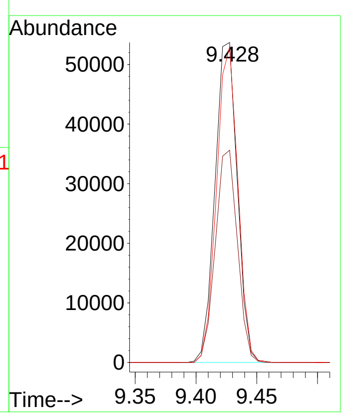




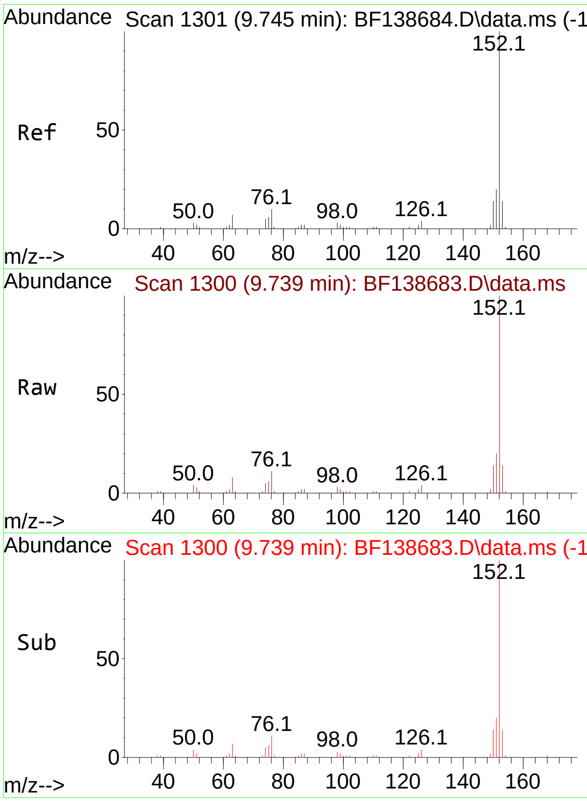
#48
2-Nitroaniline
Concen: 20.943 ng
RT: 9.428 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 65 Resp: 68663

Ion	Ratio	Lower	Upper
65	100		
92	66.3	52.0	78.0
138	98.6	76.2	114.4



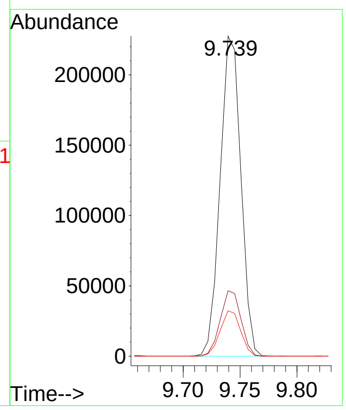
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

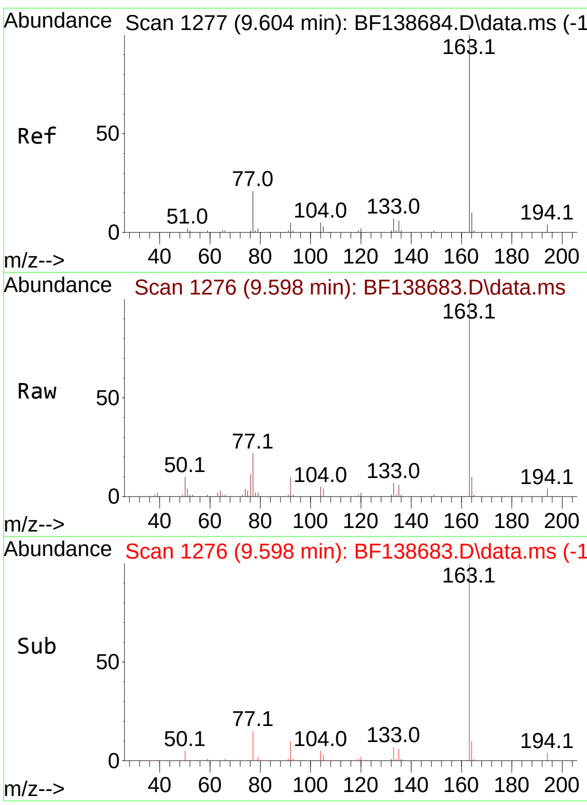


#49
Acenaphthylene
Concen: 21.093 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:152 Resp: 289321

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.0	24.0
153	14.2	11.0	16.4

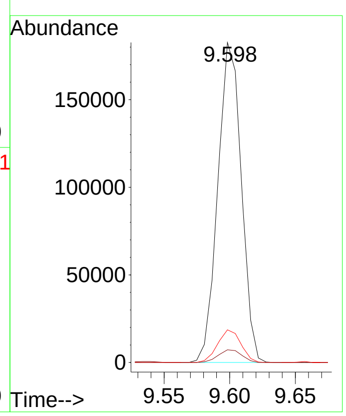




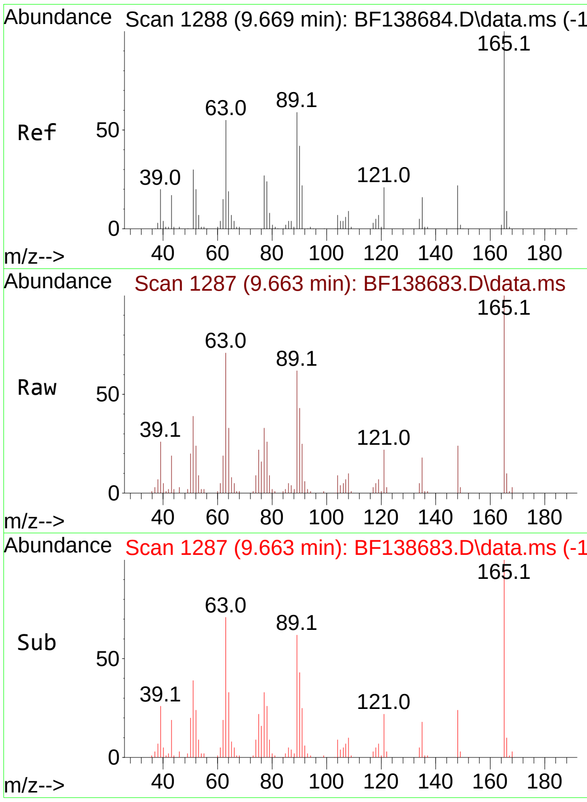
#50
Dimethylphthalate
Concen: 21.376 ng
RT: 9.598 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:163 Resp: 226938

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.2	7.8	11.8



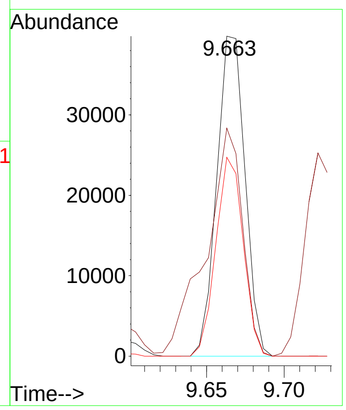
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

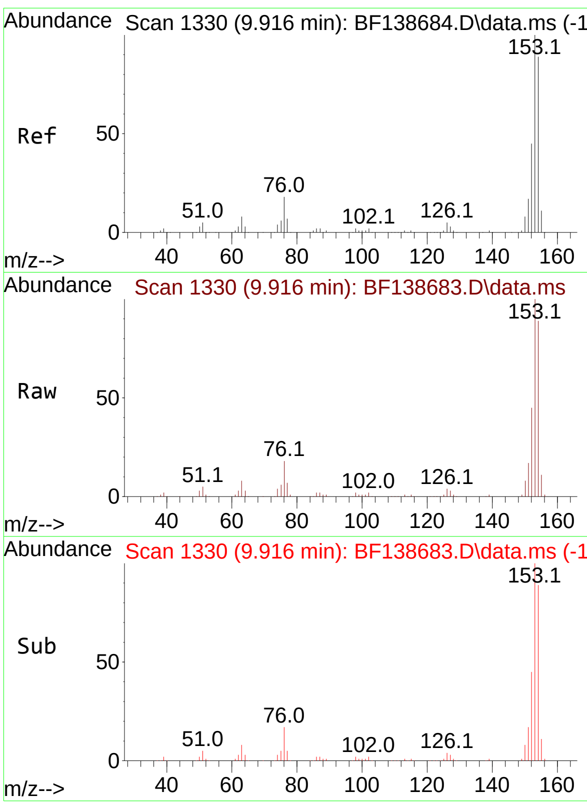


#51
2,6-Dinitrotoluene
Concen: 21.078 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:165 Resp: 50501

Ion	Ratio	Lower	Upper
165	100		
63	71.3	52.0	78.0
89	62.2	47.0	70.6

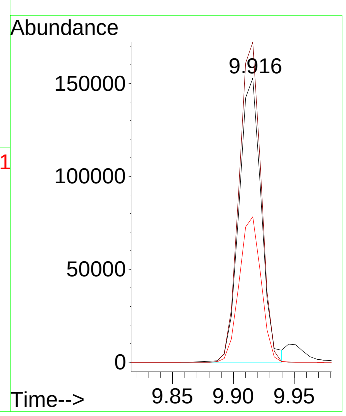




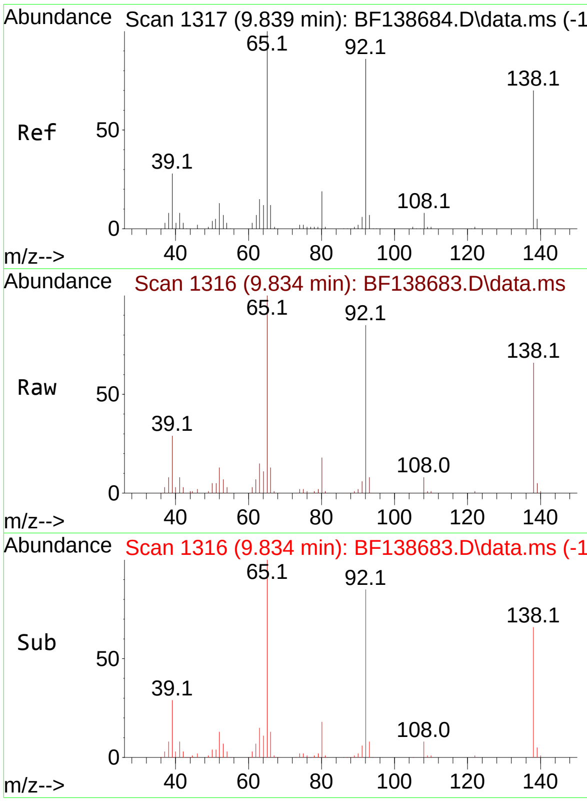
#52
Acenaphthene
Concen: 21.047 ng
RT: 9.916 min Scan# 1330
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:154 Resp: 194057

Ion	Ratio	Lower	Upper
154	100		
153	112.6	89.9	134.9
152	51.2	40.6	60.8



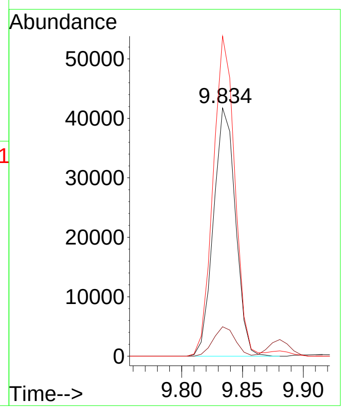
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

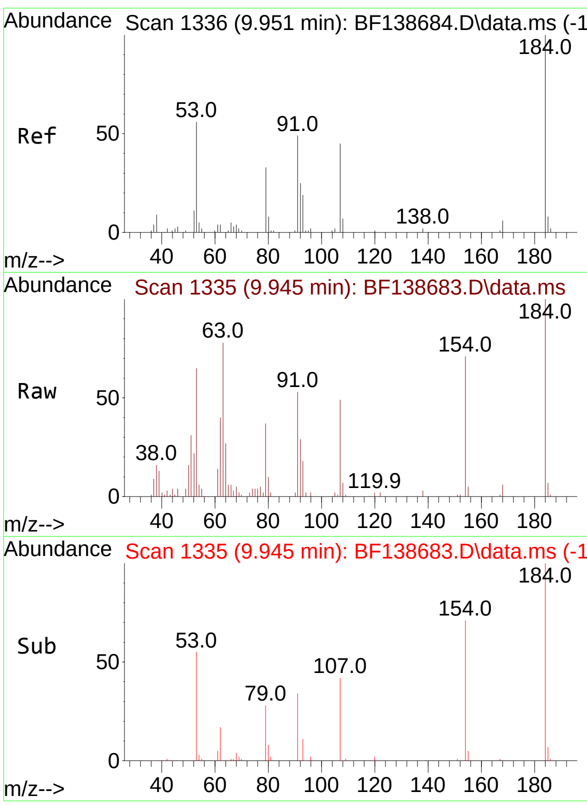


#53
3-Nitroaniline
Concen: 21.244 ng
RT: 9.834 min   Scan# 1
Delta R.T.   -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024   14:25

Tgt Ion:138 Resp: 52618

Ion	Ratio	Lower	Upper
138	100		
108	11.9	9.1	13.7
92	128.9	98.7	148.1

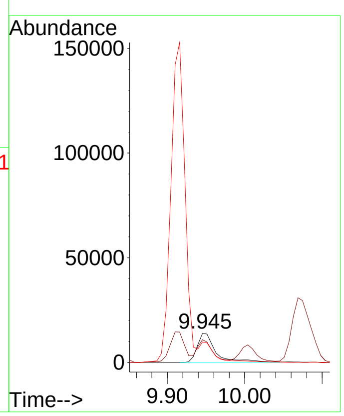




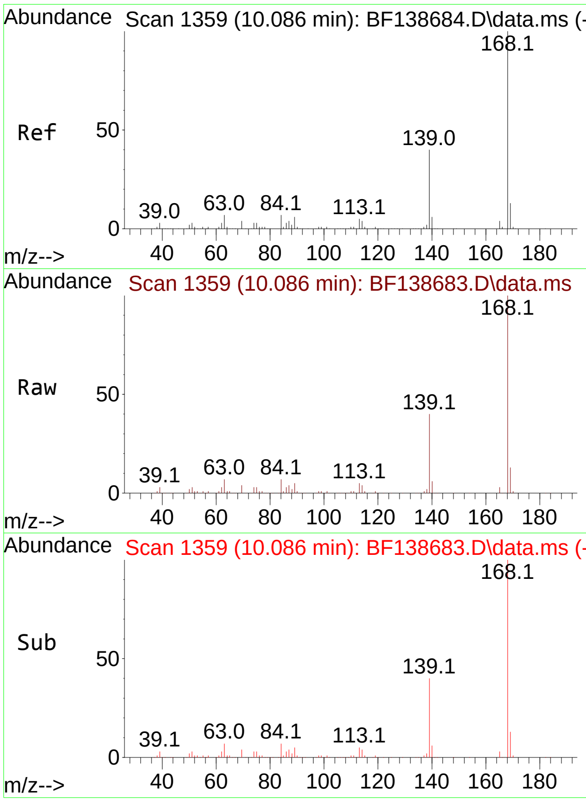
#54
2,4-Dinitrophenol
Concen: 21.374 ng
RT: 9.945 min   Scan# 1335
Delta R.T.   -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024   14:25

Tgt Ion:184 Resp: 23573

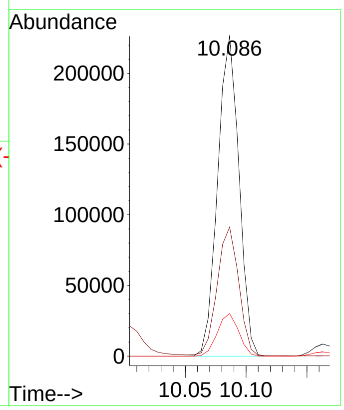
Ion	Ratio	Lower	Upper
184	100		
63	78.5	57.5	86.3
154	70.7	51.7	77.5

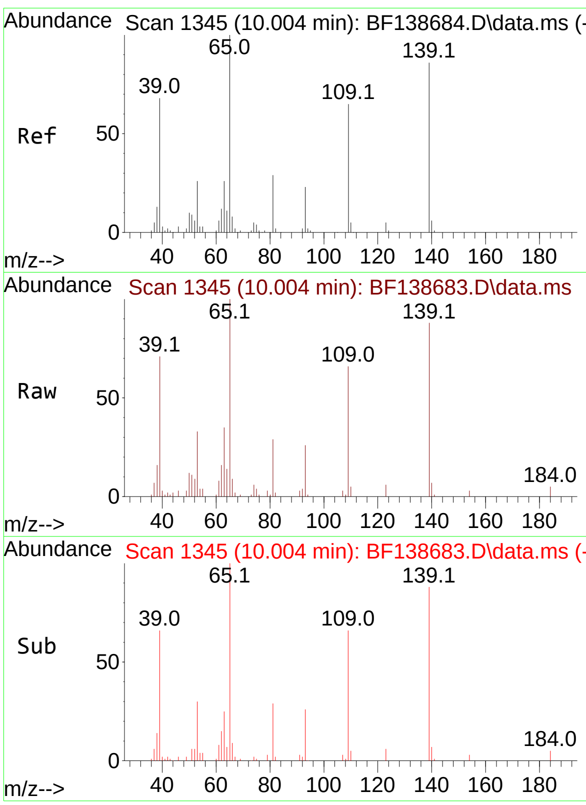


Instrument :
BNA_F
ClientSampleId :
SSTDICC020

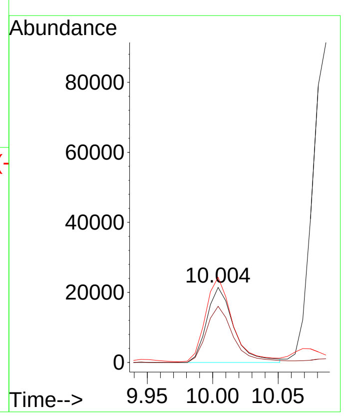



```
#55
Dibenzofuran
Concen:   21.249 ng
RT:  10.086 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion:168 Resp:  276572
Ion  Ratio  Lower  Upper
168  100
139   40.4   32.6   49.0
169   13.3   10.7   16.1
```

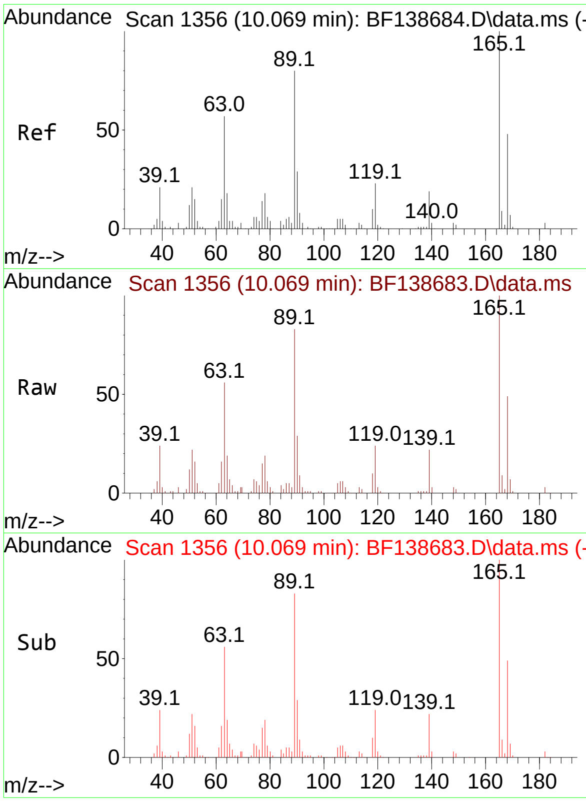




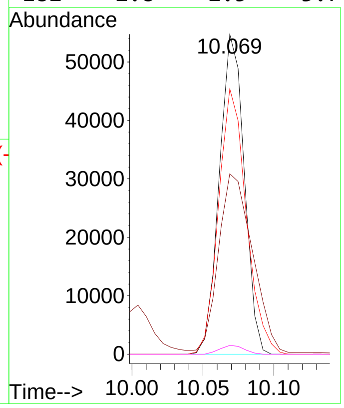

```
#56
4-Nitrophenol
Concen:   20.745 ng
RT:  10.004 min  Scan# 1345
Delta R.T.  0.000 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion:139 Resp:   30898
Ion  Ratio  Lower  Upper
139  100
109   74.9   55.5   95.5
 65  113.5   96.7  136.7
```

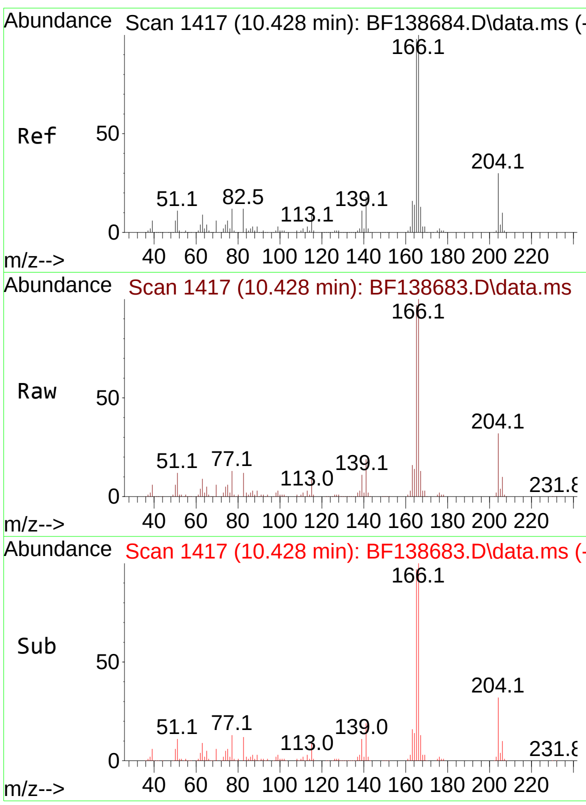


Instrument : BNA_F
ClientSampleId : SSTDICC020

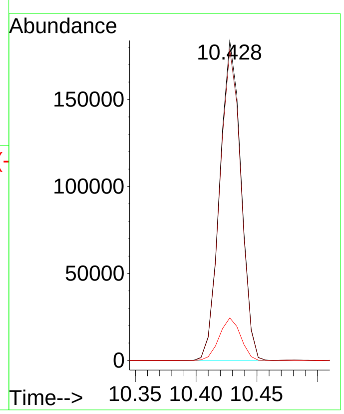



```
#57
2,4-Dinitrotoluene
Concen:   21.832 ng
RT:  10.069 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion:165 Resp:   66734
Ion  Ratio  Lower  Upper
165  100
 63   56.4   46.3   69.5
 89   82.9   64.2   96.4
182    2.8    2.5    3.7
```

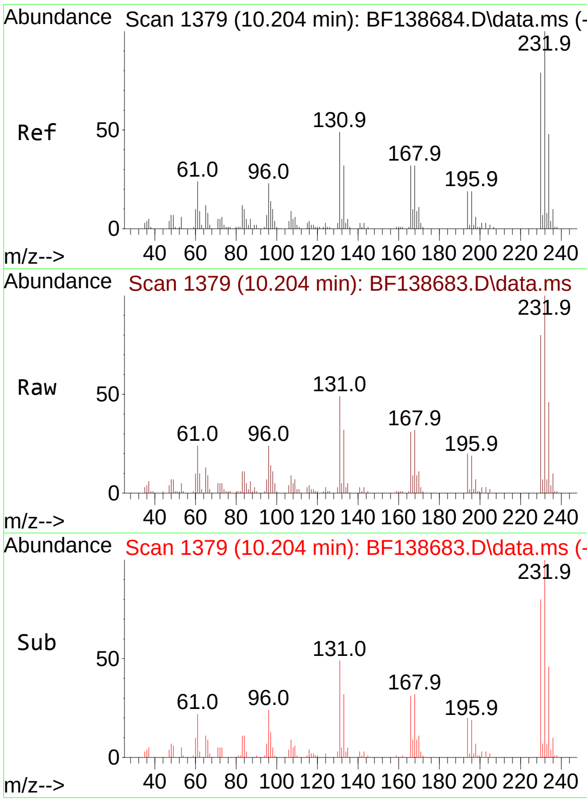





```
#58
Fluorene
Concen:   21.646 ng
RT:  10.428 min  Scan# 1417
Delta R.T.  0.000 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion:166 Resp:  224349
Ion  Ratio  Lower  Upper
166  100
165   97.3   78.4  117.6
167   13.3   10.6   16.0
```



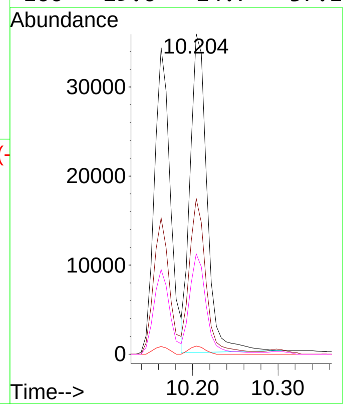
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

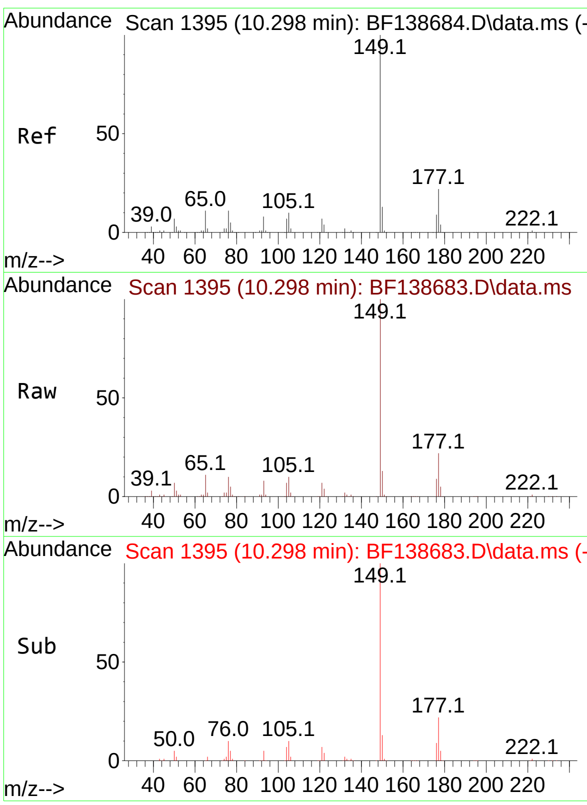


#59
2,3,4,6-Tetrachlorophenol
Concen: 21.005 ng
RT: 10.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:232 Resp: 49368

Ion	Ratio	Lower	Upper
232	100		
131	48.1	37.0	55.4
130	2.4	2.0	3.0
166	29.6	24.7	37.1

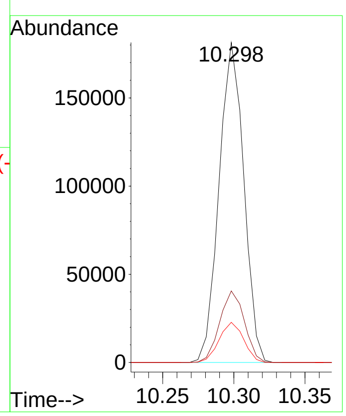




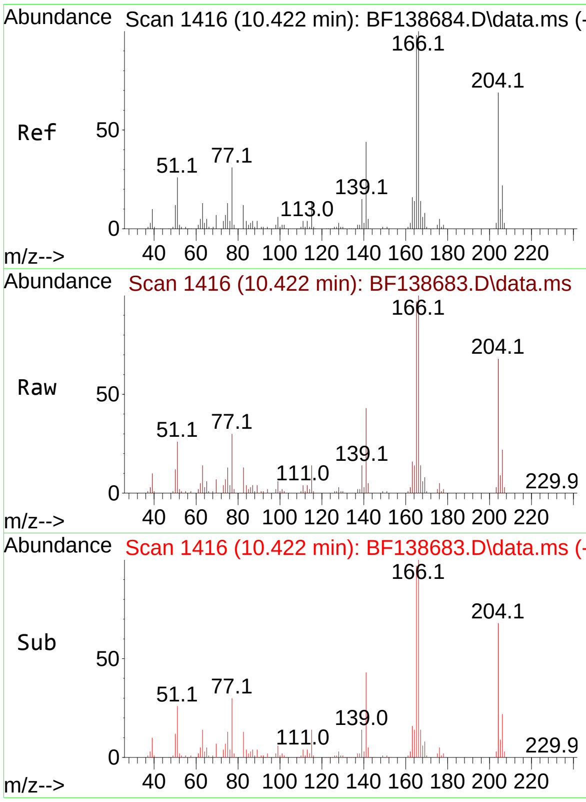
#60
Diethylphthalate
Concen: 21.793 ng
RT: 10.298 min Scan# 1395
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:149 Resp: 219374

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.8	26.8
150	12.6	10.1	15.1



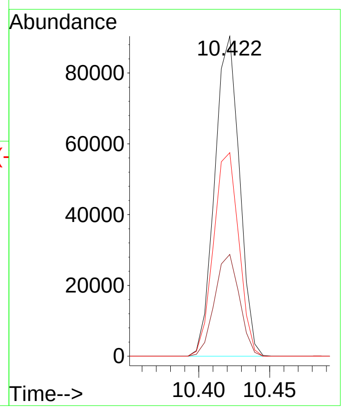
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

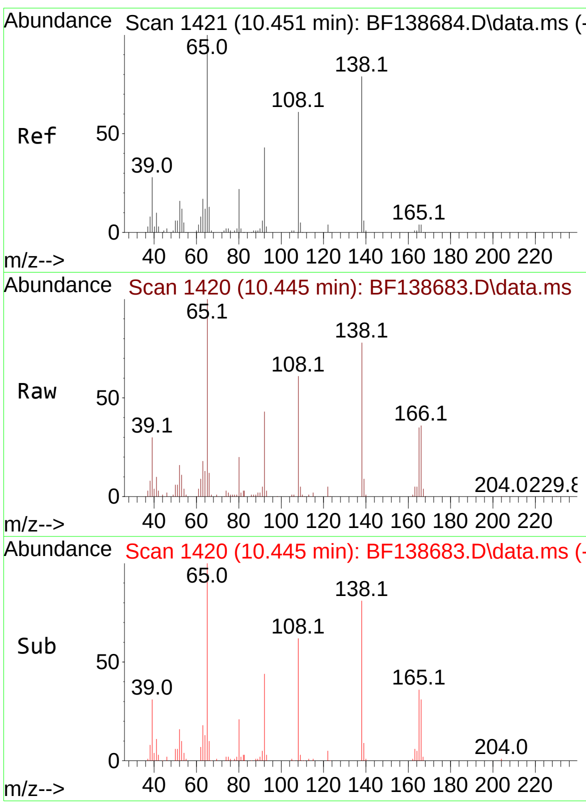


#61
4-Chlorophenyl-phenylether
Concen: 21.552 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:204 Resp: 109862

Ion	Ratio	Lower	Upper
204	100		
206	31.8	26.1	39.1
141	63.6	51.4	77.0

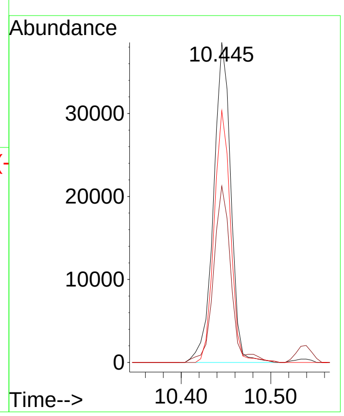




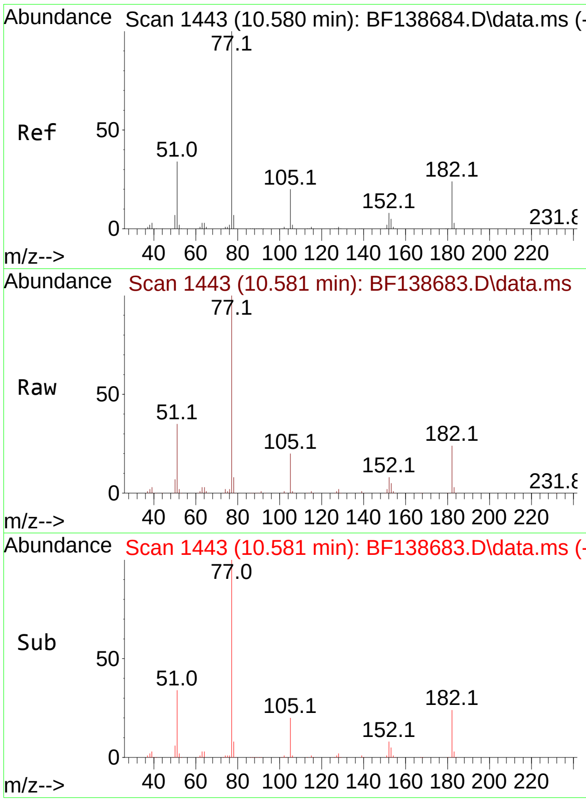
#62
4-Nitroaniline
Concen: 22.077 ng
RT: 10.445 min Scan# 1420
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:138 Resp: 51964

Ion	Ratio	Lower	Upper
138	100		
92	55.1	34.2	74.2
108	78.7	56.2	96.2



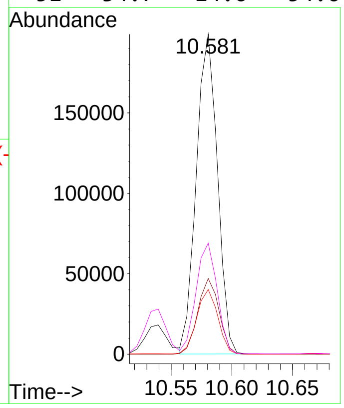
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

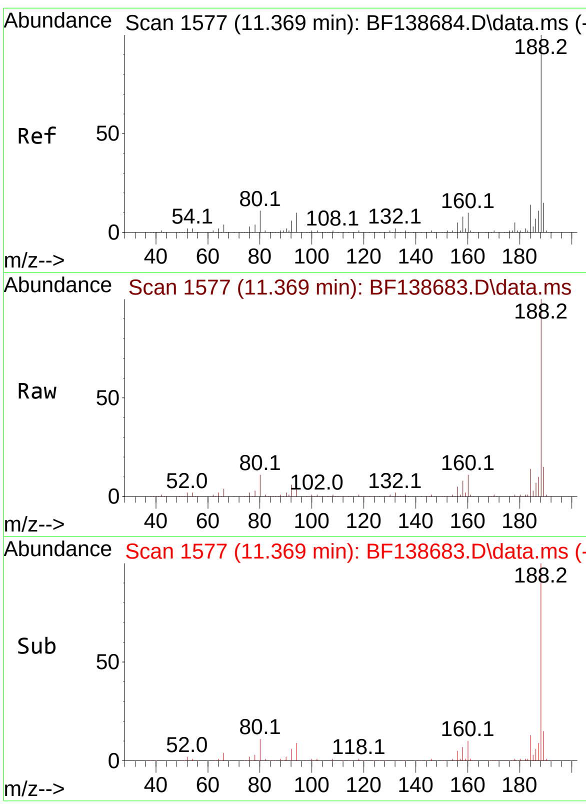


#63
Azobenzene
Concen: 21.566 ng
RT: 10.581 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 77 Resp: 240769

Ion	Ratio	Lower	Upper
77	100		
182	23.7	3.4	43.4
105	20.2	0.2	40.2
51	34.7	14.6	54.6

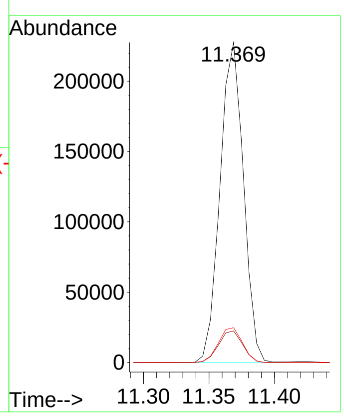




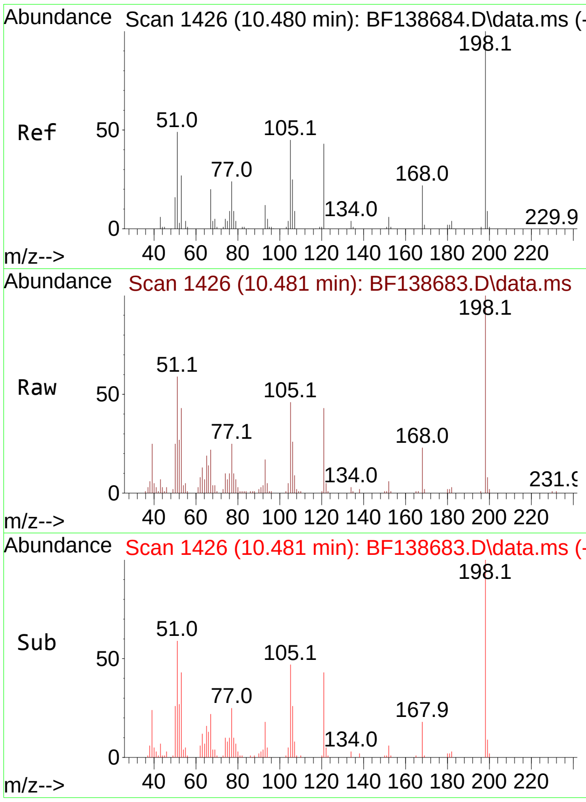
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:188 Resp: 283009

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.6	11.4
80	10.9	8.6	12.8



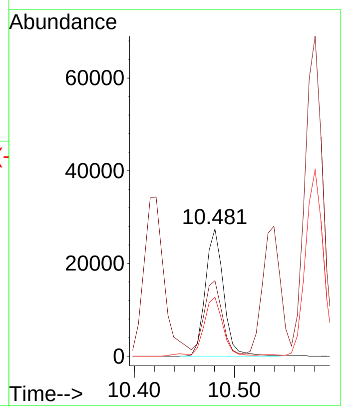
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

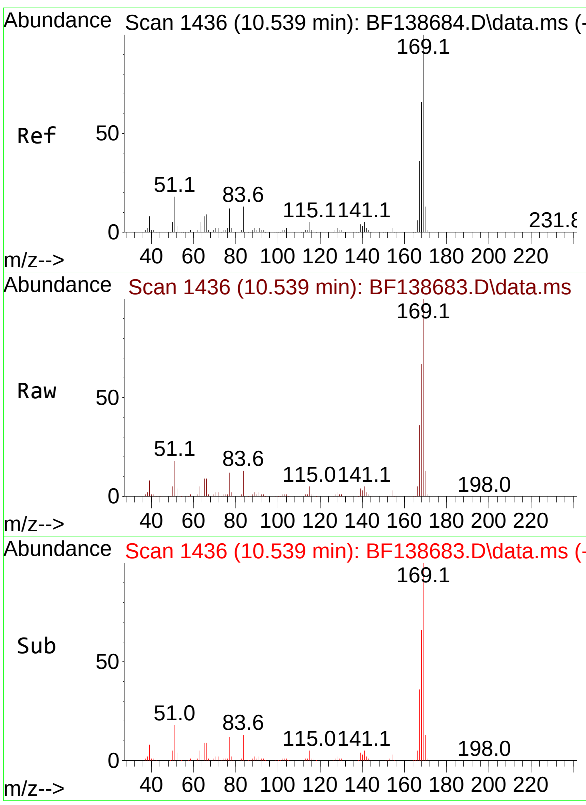


#65
4,6-Dinitro-2-methylphenol
Concen: 20.206 ng
RT: 10.481 min Scan# 14
Delta R.T. 0.001 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:198 Resp: 34887

Ion	Ratio	Lower	Upper
198	100		
51	59.2	39.9	79.9
105	46.3	26.1	66.1

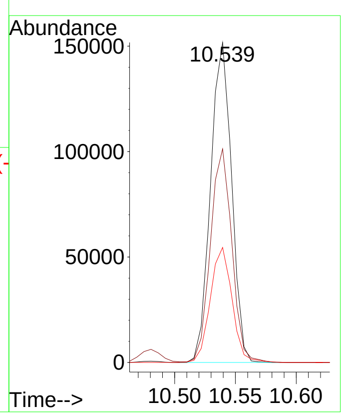




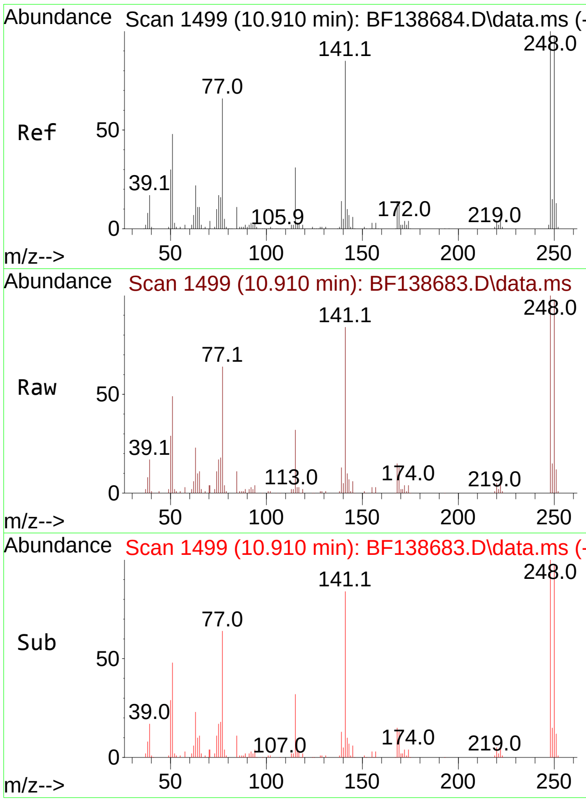
#66
n-Nitrosodiphenylamine
Concen: 20.636 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:169 Resp: 182551

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.0	79.6
167	35.9	29.0	43.6



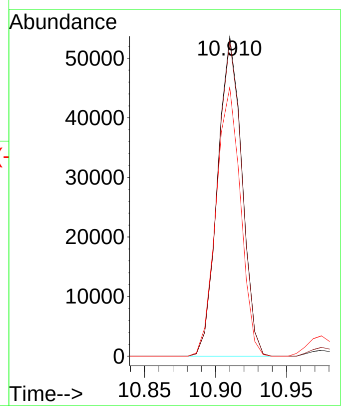
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

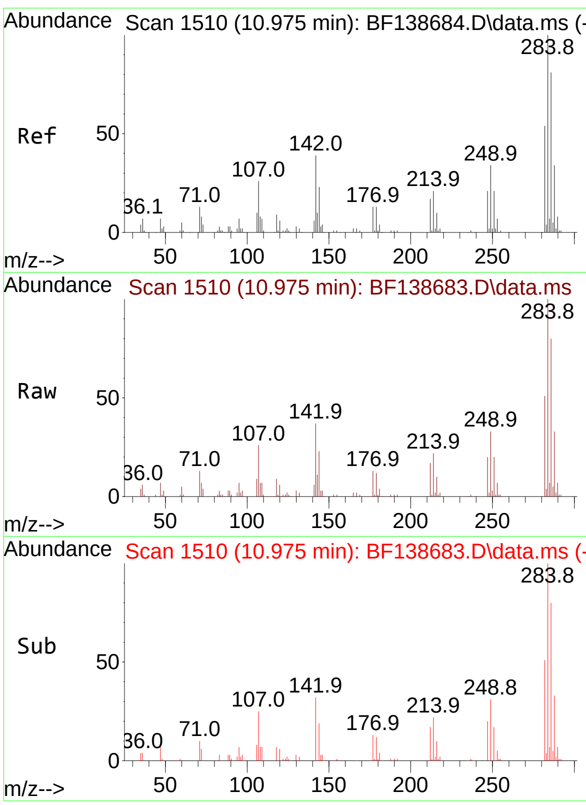


#67
4-Bromophenyl-phenylether
Concen: 20.903 ng
RT: 10.910 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:248 Resp: 64049

Ion	Ratio	Lower	Upper
248	100		
250	98.5	77.7	116.5
141	84.1	68.0	102.0

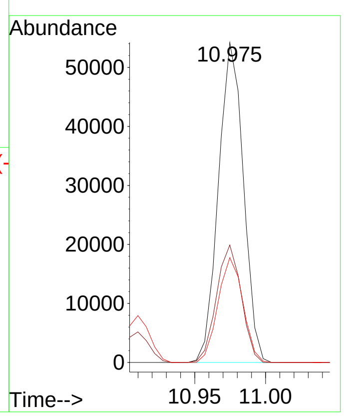




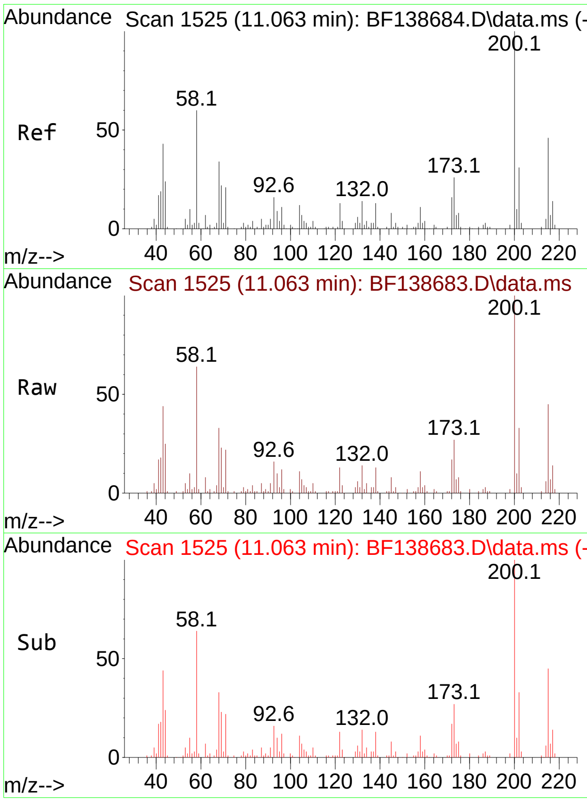
#68
Hexachlorobenzene
Concen: 20.966 ng
RT: 10.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:284 Resp: 66331

Ion	Ratio	Lower	Upper
284	100		
142	36.7	31.3	46.9
249	32.8	27.2	40.8



ICAL Form

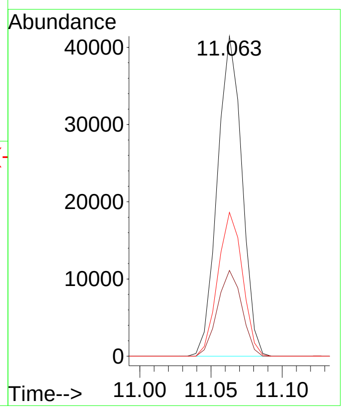


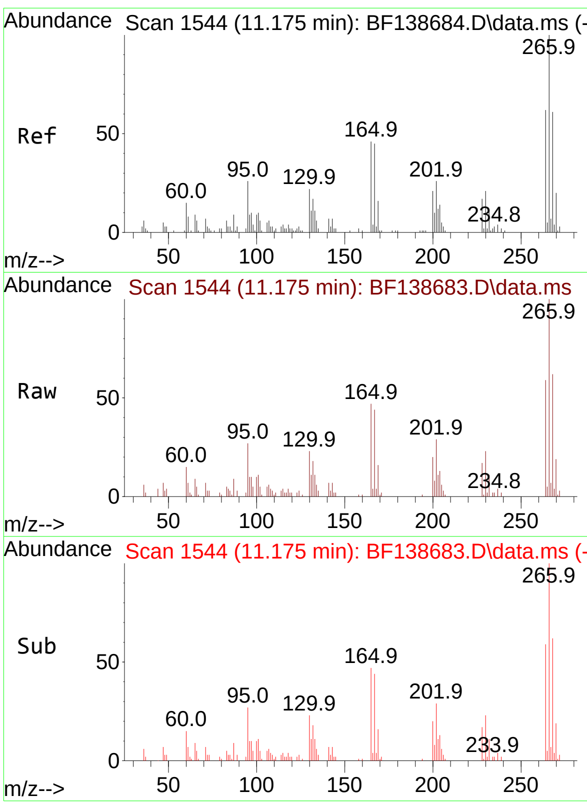
#69
Atrazine
Concen: 21.847 ng
RT: 11.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 49863

Ion	Ratio	Lower	Upper
200	100		
173	26.8	6.0	46.0
215	45.0	26.1	66.1

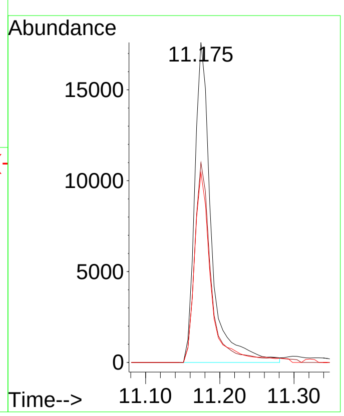




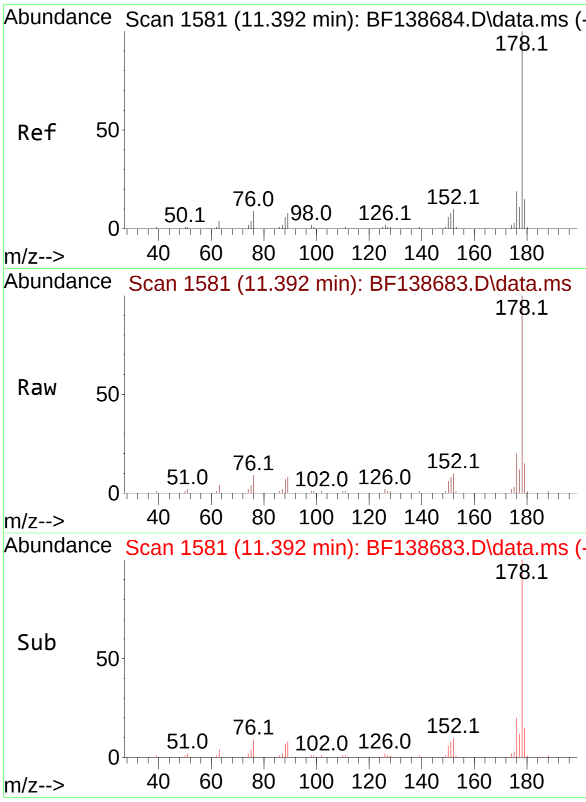
#70
Pentachlorophenol
Concen: 19.263 ng
RT: 11.175 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:266 Resp: 27470

Ion	Ratio	Lower	Upper
266	100		
268	62.5	49.2	73.8
264	59.4	49.8	74.6



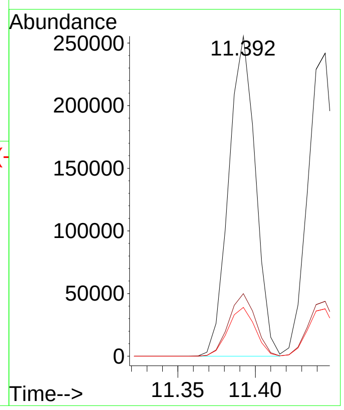
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

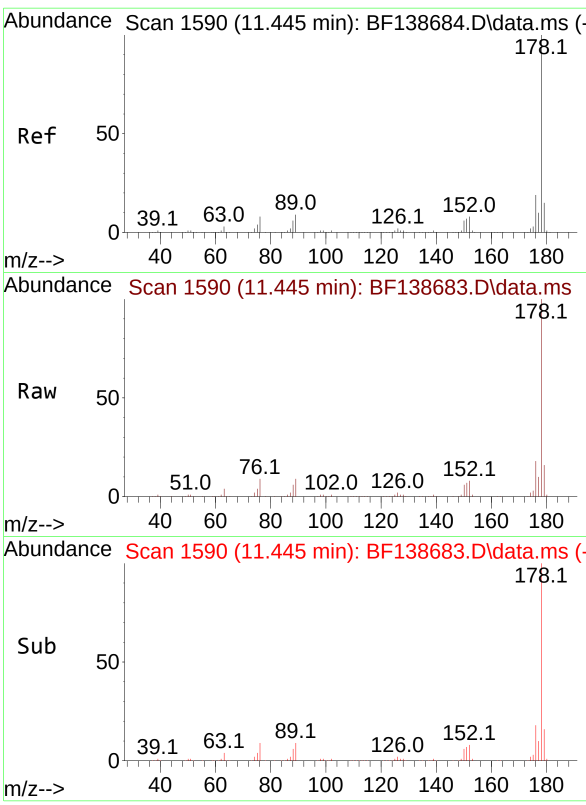


#71
Phenanthrene
Concen: 21.117 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:178 Resp: 307735

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.0
179	15.3	12.2	18.2

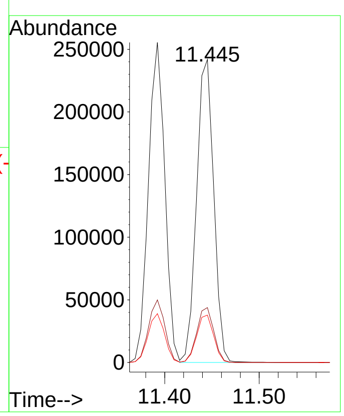




#72
Anthracene
Concen: 21.256 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

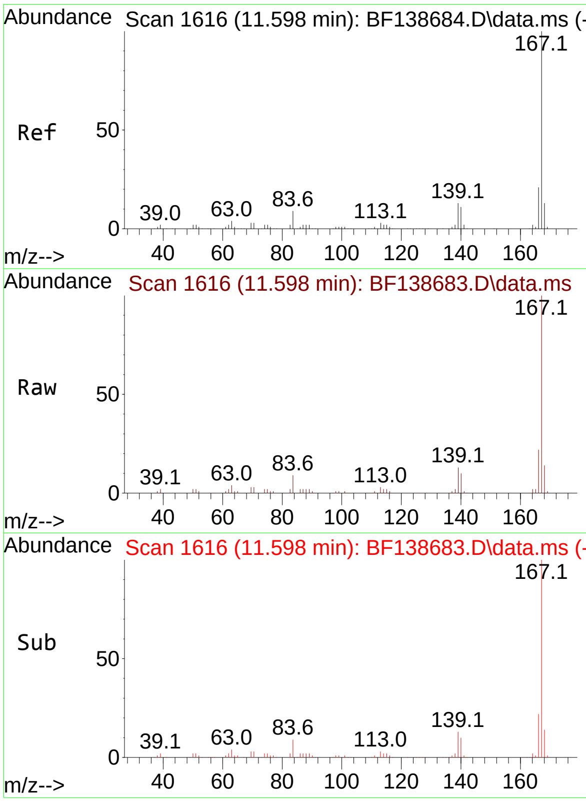
Tgt Ion:178 Resp: 305147

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.9	22.3
179	15.6	12.4	18.6

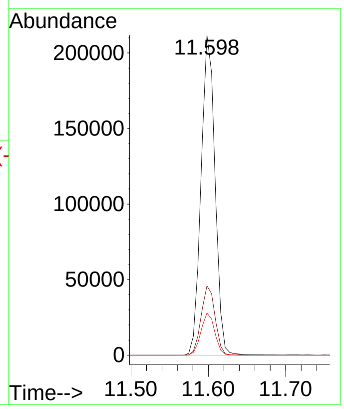


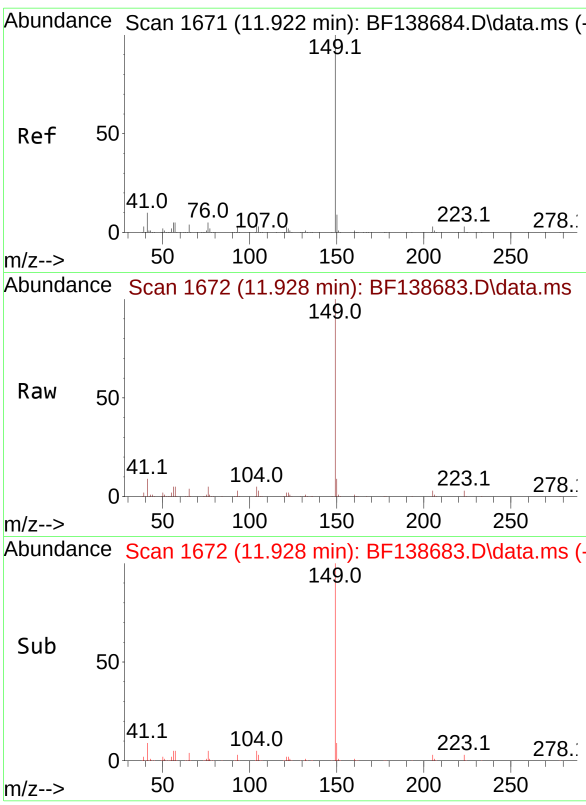
ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

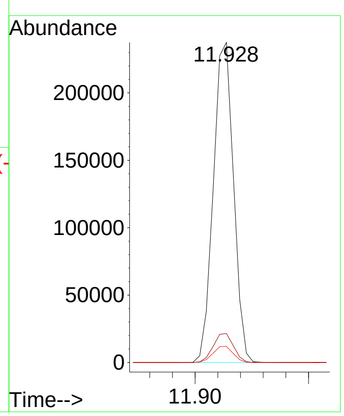


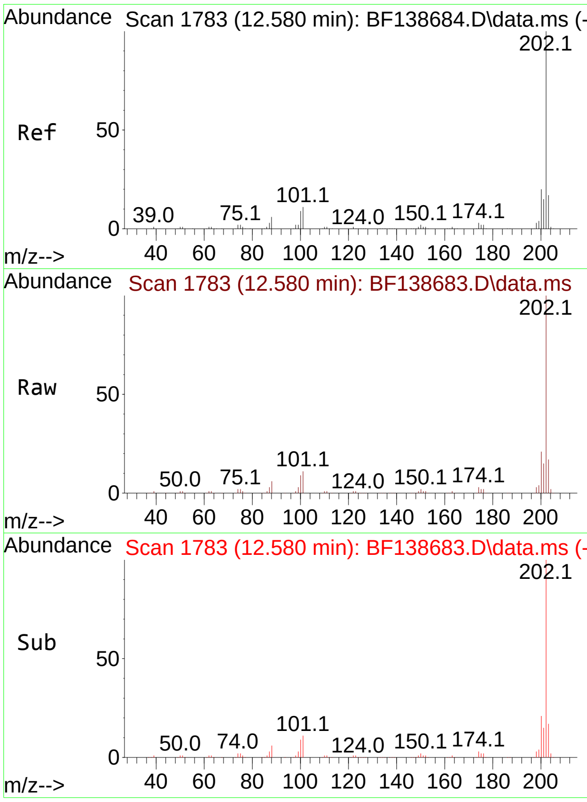

```
#73
Carbazole
Concen:   21.474 ng
RT:  11.598 min  Scan# 1(
Delta R.T.  0.000 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion:167 Resp:  265973
Ion  Ratio  Lower  Upper
167  100
166   21.7   17.2   25.8
139   13.2   10.6   16.0
```






```
#74
Di-n-butylphthalate
Concen:   21.131 ng
RT:  11.928 min  Scan# 1672
Delta R.T.  0.006 min
Lab File:   BF138683.D
Acq: 30 Jul 2024  14:25

Tgt Ion:149 Resp:  294214
Ion  Ratio  Lower  Upper
149  100
150    9.0    7.4   11.0
104    5.0    4.1    6.1
```



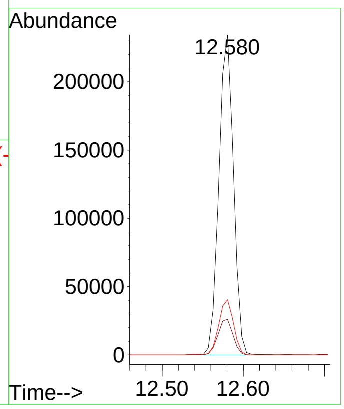


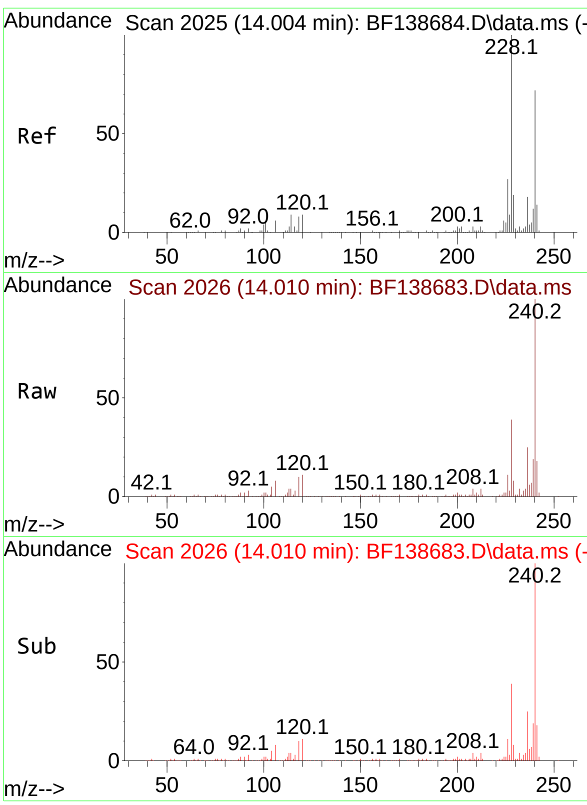
#75
Fluoranthene
Concen: 21.613 ng
RT: 12.580 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 294039

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.2
203	17.3	0.0	37.3

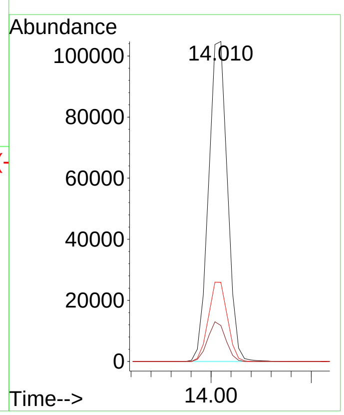




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2026
Delta R.T. 0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

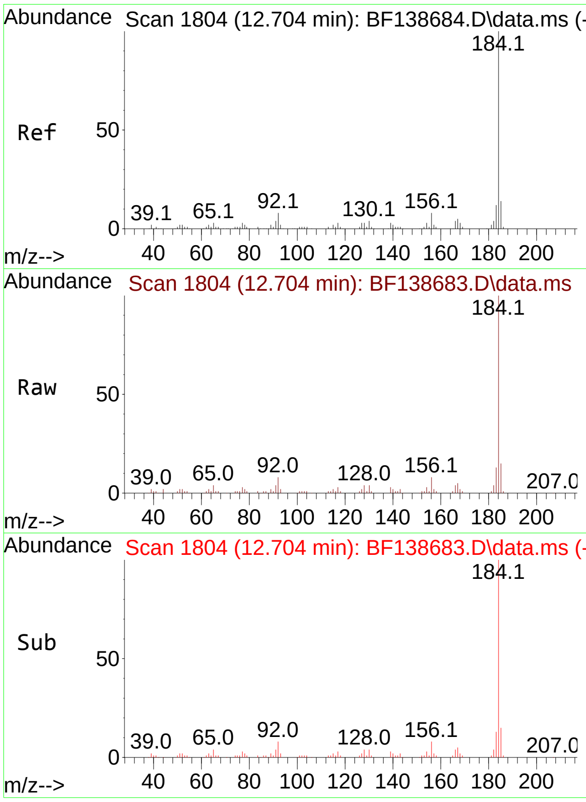
Tgt Ion:240 Resp: 137400

Ion	Ratio	Lower	Upper
240	100		
120	11.3	10.2	15.4
236	24.7	19.8	29.8



ICAL Form

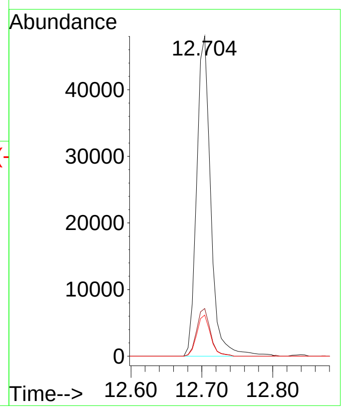
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

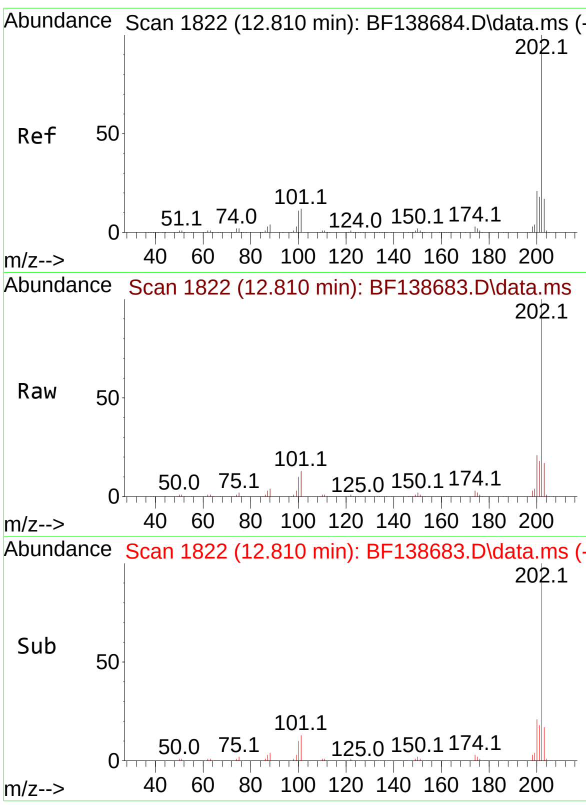


#77
Benzidine
Concen: 20.254 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:184 Resp: 66561

Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.1	16.7
183	12.9	9.6	14.4

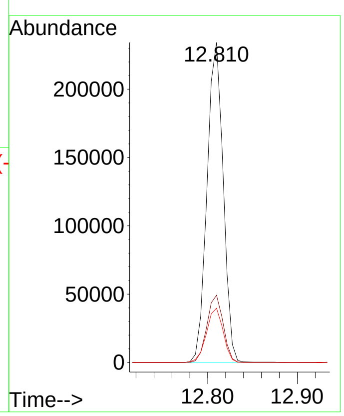




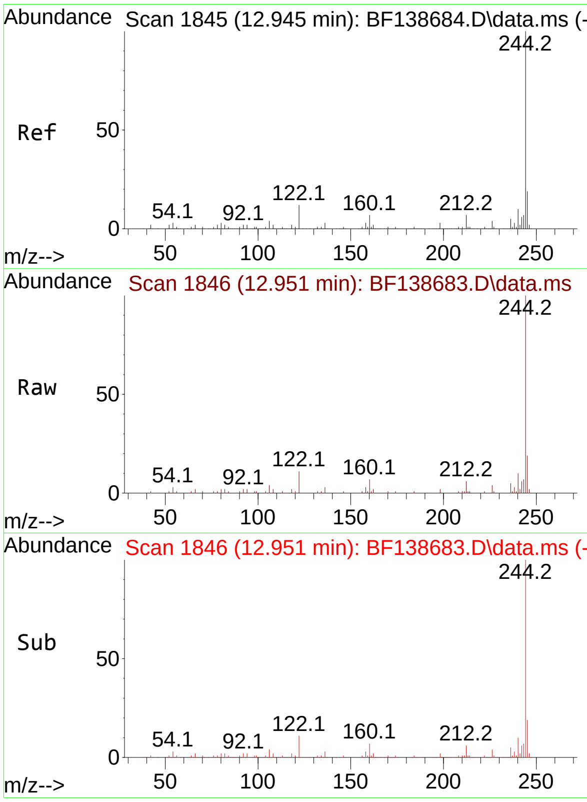
#78
Pyrene
Concen: 22.728 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:202 Resp: 294030

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	16.9	13.8	20.6



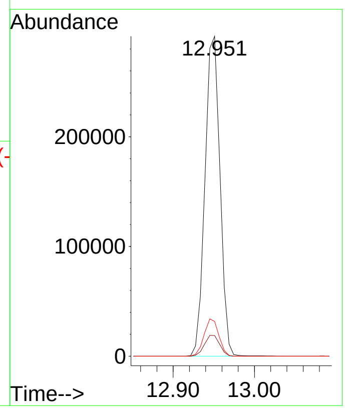
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

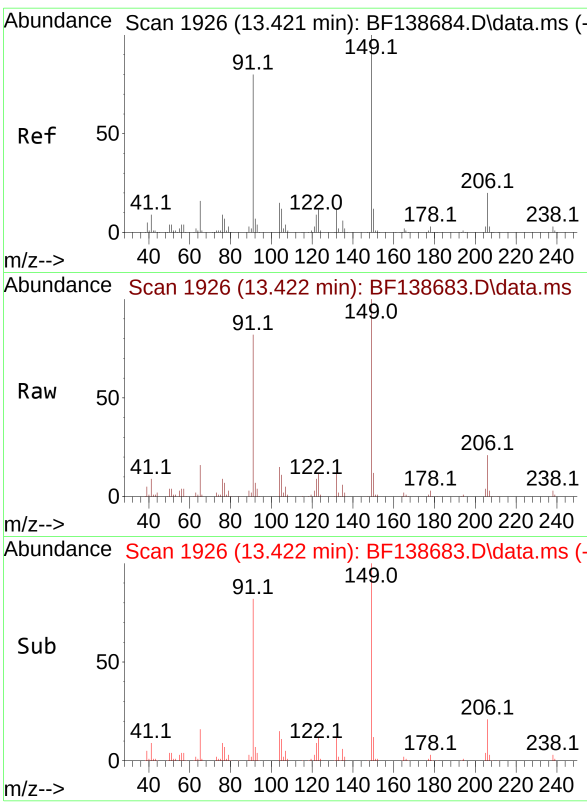


#79
Terphenyl-d14
Concen: 45.593 ng
RT: 12.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:244 Resp: 374162

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.2
122	10.8	9.6	14.4

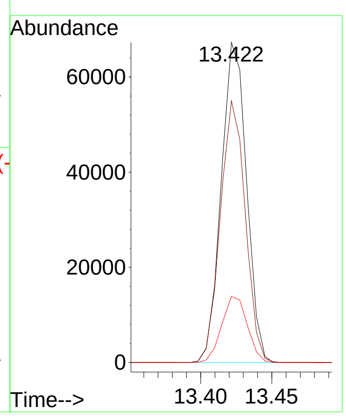




#80
Butylbenzylphthalate
Concen: 20.074 ng
RT: 13.422 min Scan# 1926
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

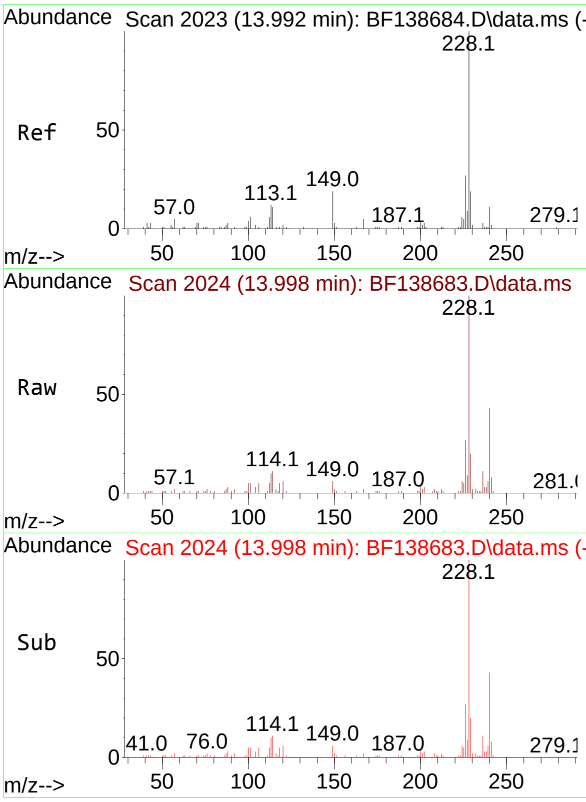
Tgt Ion:149 Resp: 83162

Ion	Ratio	Lower	Upper
149	100		
91	81.8	63.7	95.5
206	20.7	16.2	24.2



ICAL Form

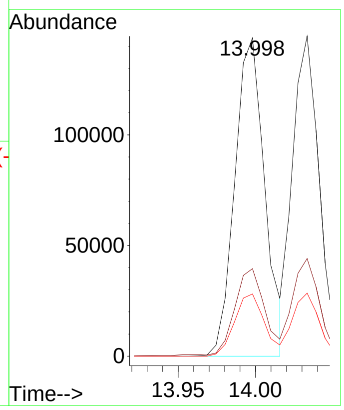
Instrument : BNA_F
ClientSampleId : SSTDICC020

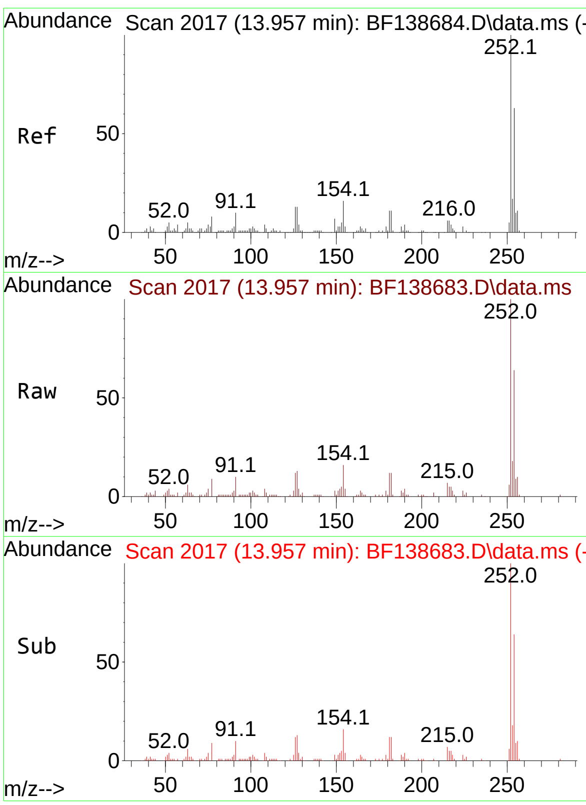


#81
Benzo(a)anthracene
Concen: 20.469 ng
RT: 13.998 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:228 Resp: 193671

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.1	33.1
229	19.5	15.4	23.0

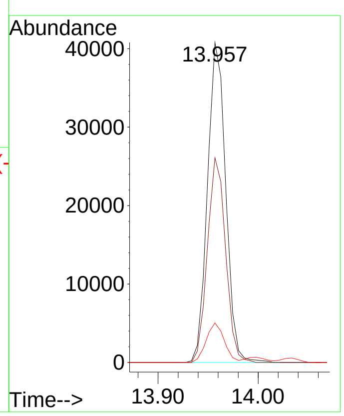




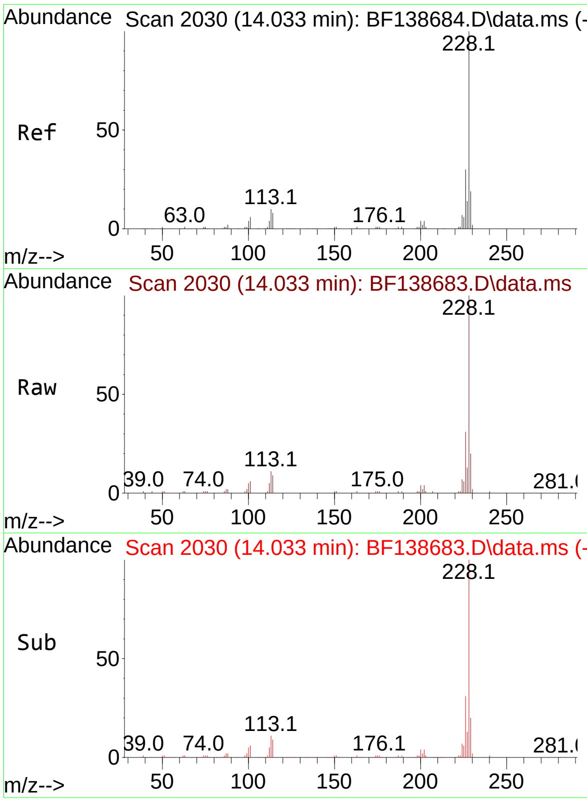
#82
3,3'-Dichlorobenzidine
Concen: 21.412 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:252 Resp: 51844

Ion	Ratio	Lower	Upper
252	100		
254	64.0	50.8	76.2
126	12.4	10.2	15.2



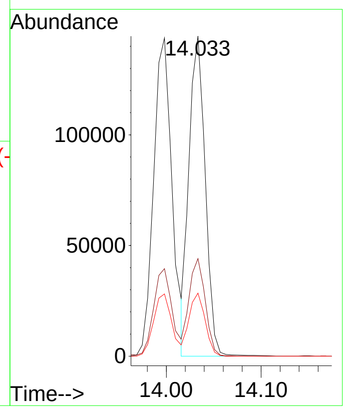
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

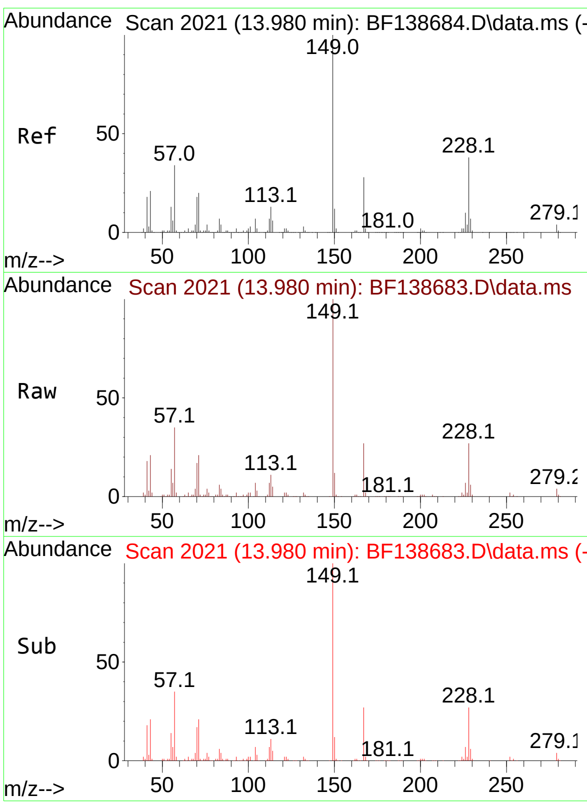


#83
Chrysene
Concen: 20.285 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:228 Resp: 173160

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.7	35.5
229	19.7	15.0	22.6

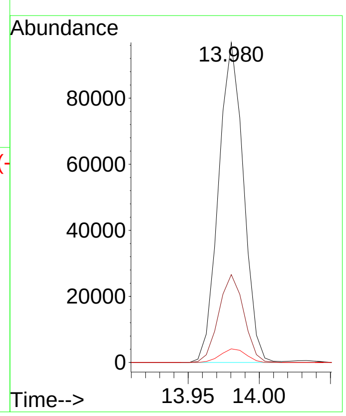




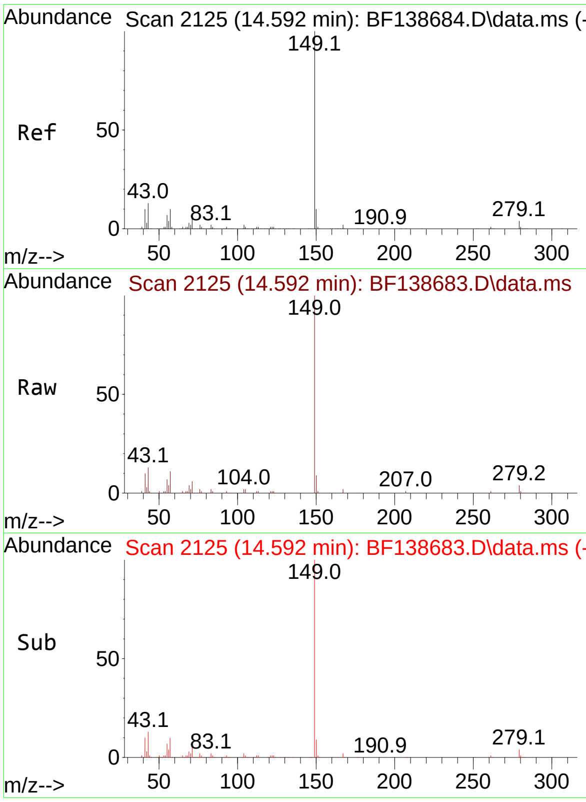
#84
Bis(2-ethylhexyl)phthalate
Concen: 19.500 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:149 Resp: 118293

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.3	3.4	5.0



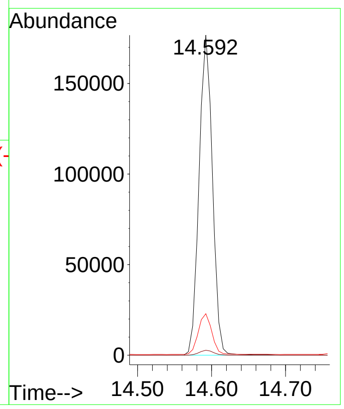
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

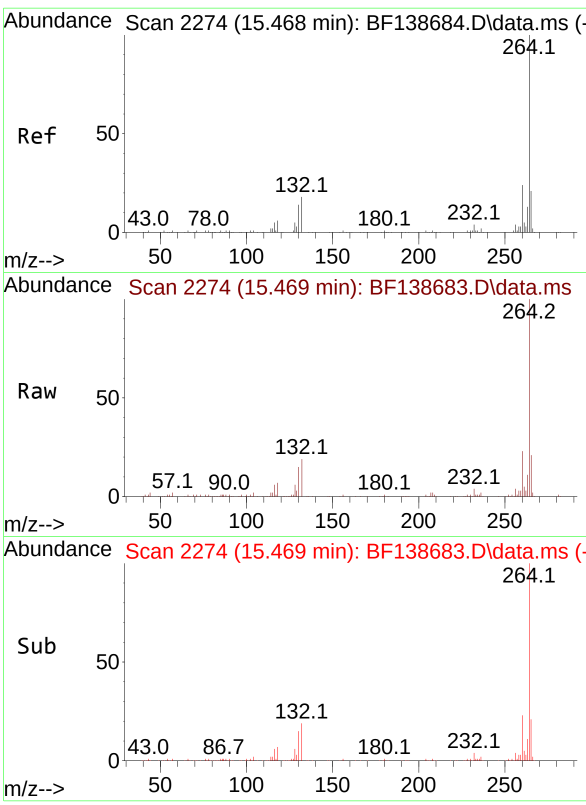


#85
Di-n-octyl phthalate
Concen: 19.758 ng
RT: 14.592 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:149 Resp: 221760

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.4	2.0
43	12.9	10.4	15.6

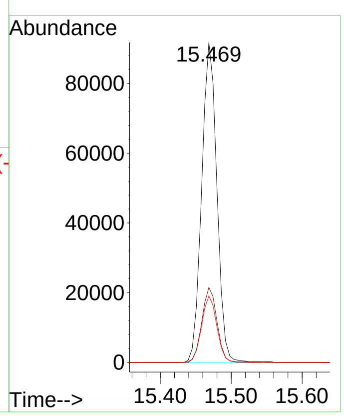




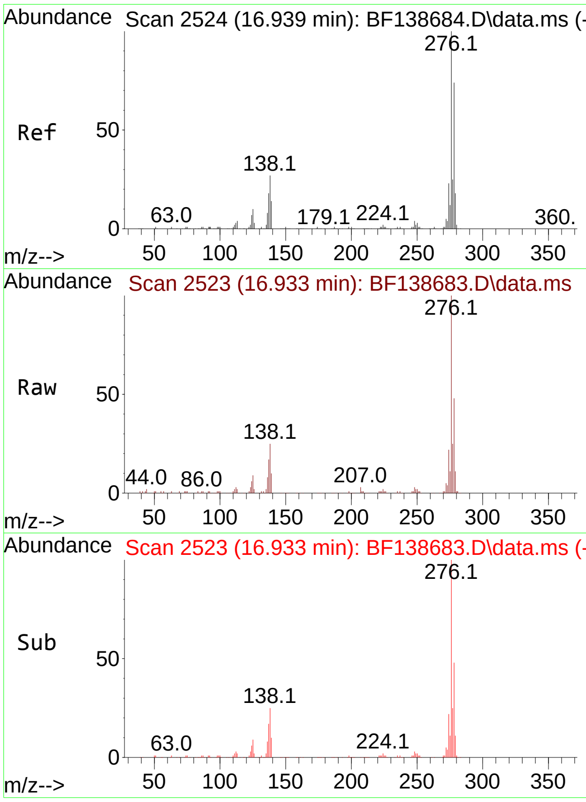
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.469 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:264 Resp: 137093

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.0	28.6
265	20.8	17.0	25.6



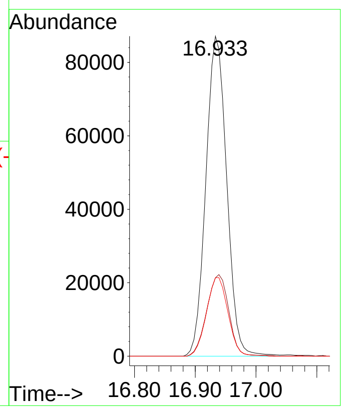
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

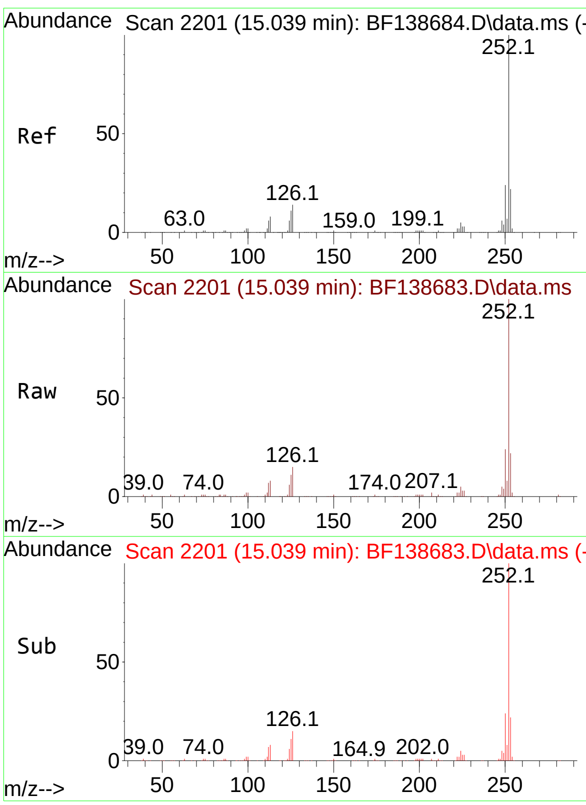


#87
Indeno(1,2,3-cd)pyrene
Concen: 21.168 ng
RT: 16.933 min Scan# 2!
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:276 Resp: 207968

Ion	Ratio	Lower	Upper
276	100		
138	26.9	21.8	32.8
277	25.4	20.6	30.8

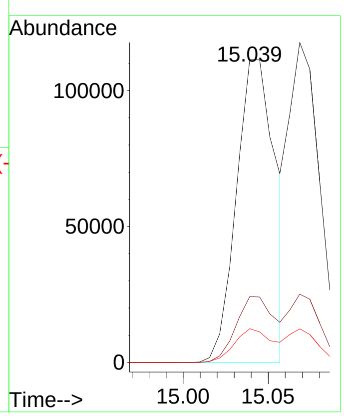




#88
Benzo(b)fluoranthene
Concen: 20.755 ng
RT: 15.039 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

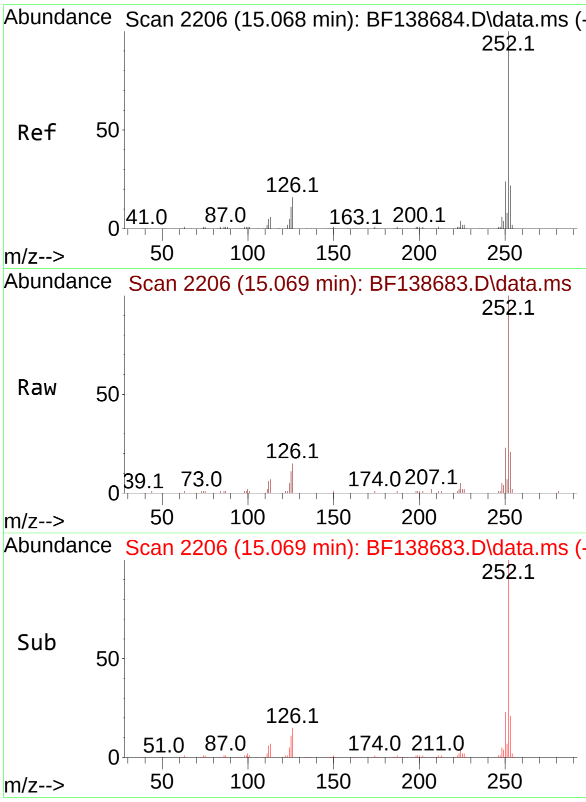
Tgt Ion:252 Resp: 176387

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	11.1	8.9	13.3



ICAL Form

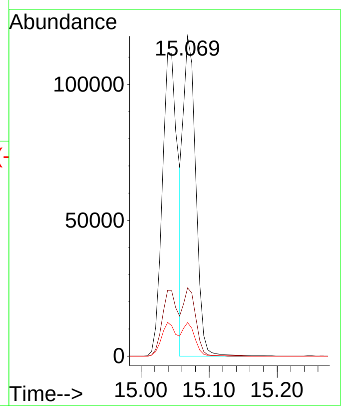
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

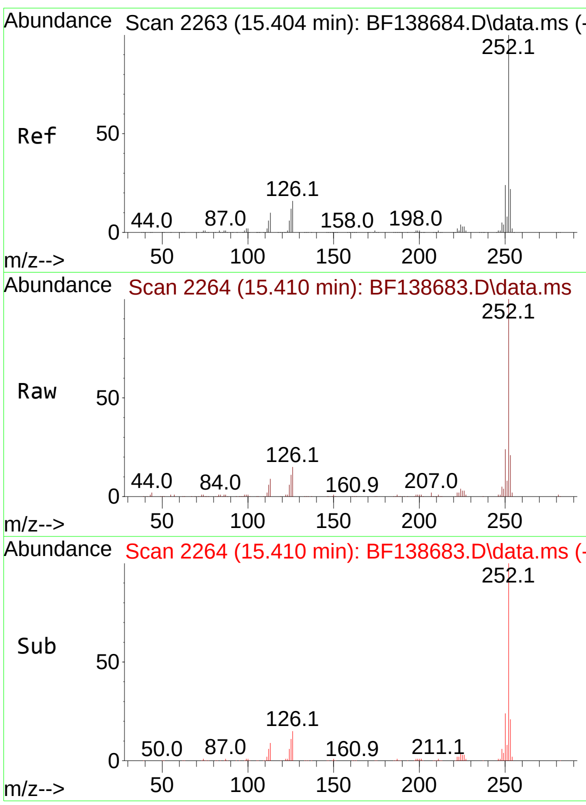


#89
Benzo(k)fluoranthene
Concen: 20.460 ng
RT: 15.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:252 Resp: 150547

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.4	26.0
125	10.5	8.6	13.0

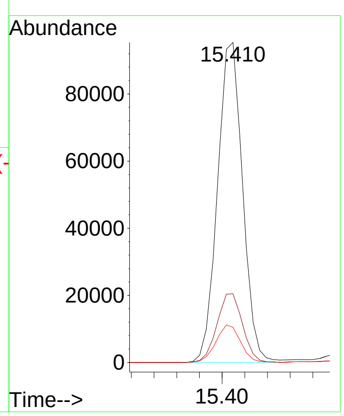


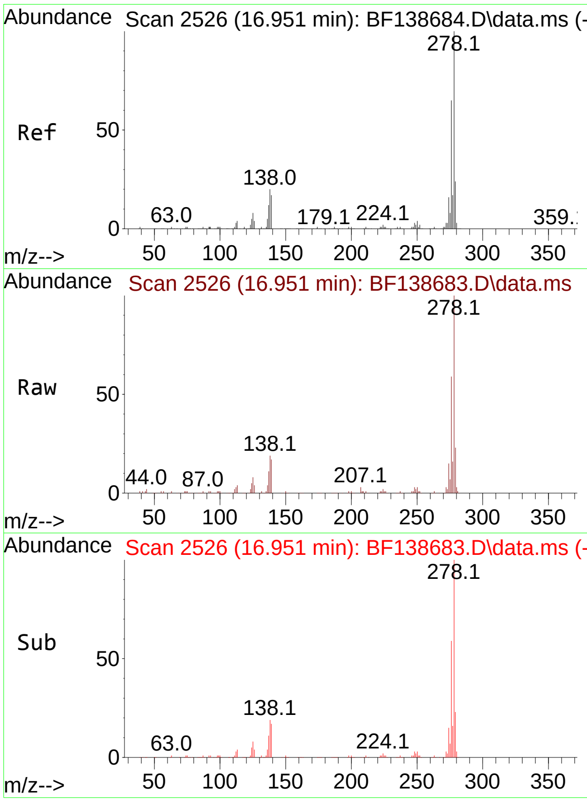


#90
Benzo(a)pyrene
Concen: 20.531 ng
RT: 15.410 min Scan# 2264
Delta R.T. 0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:252 Resp: 146767

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.3	25.9
125	11.0	9.5	14.3



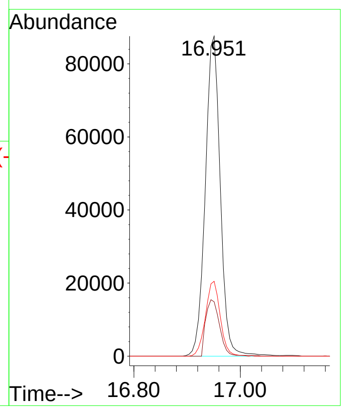


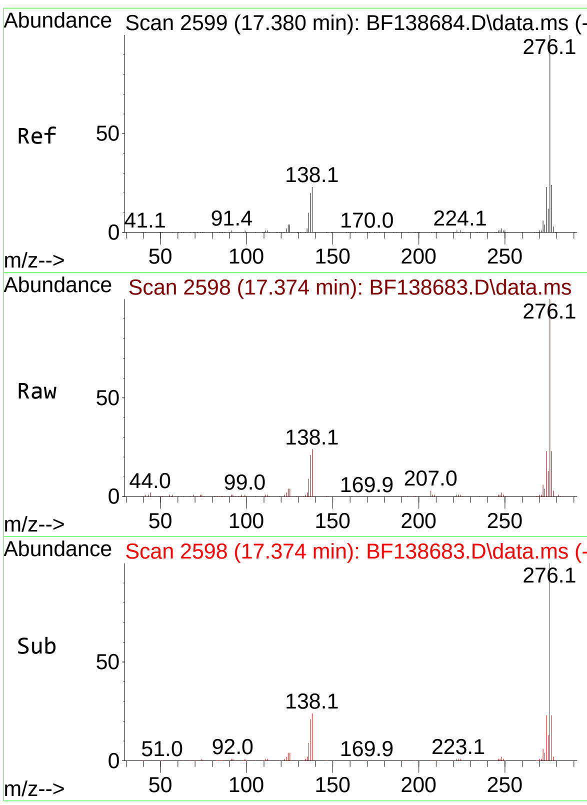
#91
Dibenzo(a,h)anthracene
Concen: 21.296 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 171745

Ion	Ratio	Lower	Upper
278	100		
139	17.0	14.0	21.0
279	23.4	19.0	28.4

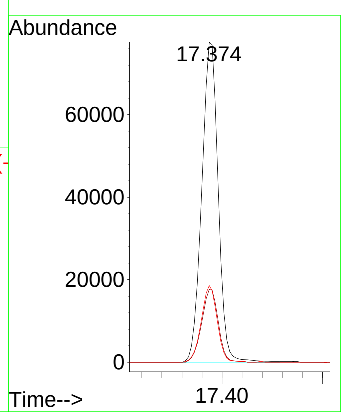




#92
Benzo(g,h,i)perylene
Concen: 21.110 ng
RT: 17.374 min Scan# 2598
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:276 Resp: 176662

Ion	Ratio	Lower	Upper
276	100		
277	22.7	19.0	28.4
138	24.0	18.5	27.7



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138684.D
Acq On : 30 Jul 2024 14:56
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jul 30 17:44:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	72528	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	281315	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	146962	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	227513	20.000	ng	0.00
76) Chrysene-d12	14.004	240	125928	20.000	ng	0.00
86) Perylene-d12	15.468	264	151531	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	369590	78.662	ng	0.00
7) Phenol-d6	6.487	99	487812	77.330	ng	0.00
23) Nitrobenzene-d5	7.410	82	457661	79.539	ng	0.00
42) 2,4,6-Tribromophenol	10.669	330	93462	77.638	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	767623	78.480	ng	0.00
79) Terphenyl-d14	12.945	244	556920	74.045	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.575	88	83483	40.585	ng	100
3) Pyridine	3.334	79	200383	40.213	ng	100
4) n-Nitrosodimethylamine	3.287	42	118122	39.802	ng	100
6) Aniline	6.510	93	222231	39.503	ng	100
8) 2-Chlorophenol	6.634	128	192242	38.889	ng	100
9) Benzaldehyde	6.398	77	131168	34.687	ng	100
10) Phenol	6.498	94	257462	38.764	ng	100
11) bis(2-Chloroethyl)ether	6.587	93	197702	38.681	ng	100
12) 1,3-Dichlorobenzene	6.787	146	213925	38.660	ng	100
13) 1,4-Dichlorobenzene	6.863	146	217011	38.861	ng	100
14) 1,2-Dichlorobenzene	7.016	146	204280	39.143	ng	100
15) Benzyl Alcohol	6.992	79	176734	38.872	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.122	45	340905	38.757	ng	100
17) 2-Methylphenol	7.104	107	160028	39.204	ng	100
18) Hexachloroethane	7.357	117	82349	39.176	ng	100
19) n-Nitroso-di-n-propyla...	7.257	70	143913	37.772	ng	100
20) 3+4-Methylphenols	7.257	107	198296	37.862	ng	100
22) Acetophenone	7.257	105	271238	39.378	ng	100
24) Nitrobenzene	7.428	77	234435	40.040	ng	100
25) Isophorone	7.669	82	382875	38.969	ng	100
26) 2-Nitrophenol	7.745	139	103255	40.990	ng	100
27) 2,4-Dimethylphenol	7.781	122	120225	39.890	ng	100
28) bis(2-Chloroethoxy)met...	7.875	93	235424	39.348	ng	100
29) 2,4-Dichlorophenol	7.992	162	155028	40.030	ng	100
30) 1,2,4-Trichlorobenzene	8.069	180	178035	39.835	ng	100
31) Naphthalene	8.151	128	587199	39.655	ng	100
32) Benzoic acid	7.904	122	93278	39.389	ng	100
33) 4-Chloroaniline	8.204	127	194499	39.130	ng	100
34) Hexachlorobutadiene	8.263	225	106863	39.476	ng	100
35) Caprolactam	8.569	113	43894	37.984	ng	100
36) 4-Chloro-3-methylphenol	8.681	107	172540	38.983	ng	100
37) 2-Methylnaphthalene	8.839	142	364899	39.019	ng	100
38) 1-Methylnaphthalene	8.939	142	357806	39.045	ng	100
40) 1,2,4,5-Tetrachloroben...	9.004	216	161777	39.628	ng	100
41) Hexachlorocyclopentadiene	8.986	237	37306	38.484	ng	100
43) 2,4,6-Trichlorophenol	9.116	196	98841	39.709	ng	100

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138684.D
Acq On : 30 Jul 2024 14:56
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jul 30 17:44:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	108268	39.788 ng	100
46) 1,1'-Biphenyl	9.304	154	452377	39.303 ng	100
47) 2-Chloronaphthalene	9.328	162	338303	39.520 ng	100
48) 2-Nitroaniline	9.428	65	114390	39.417 ng	100
49) Acenaphthylene	9.745	152	481180	39.633 ng	100
50) Dimethylphthalate	9.604	163	361332	38.452 ng	100
51) 2,6-Dinitrotoluene	9.669	165	84654	39.918 ng	100
52) Acenaphthene	9.916	154	318001	38.964 ng	100
53) 3-Nitroaniline	9.839	138	84697	38.633 ng	100
54) 2,4-Dinitrophenol	9.951	184	37379	38.289 ng	100
55) Dibenzofuran	10.086	168	445244	38.648 ng	100
56) 4-Nitrophenol	10.004	139	51459	39.032 ng	100
57) 2,4-Dinitrotoluene	10.069	165	106444	39.341 ng	100
58) Fluorene	10.428	166	354441	38.634 ng	100
59) 2,3,4,6-Tetrachlorophenol	10.204	232	80452	38.673 ng	100
60) Diethylphthalate	10.298	149	339596	38.114 ng	100
61) 4-Chlorophenyl-phenyle...	10.422	204	173020	38.346 ng	100
62) 4-Nitroaniline	10.451	138	79919	38.360 ng	100
63) Azobenzene	10.580	77	382056	38.662 ng	100
65) 4,6-Dinitro-2-methylph...	10.480	198	56704	40.852 ng	100
66) n-Nitrosodiphenylamine	10.539	169	287289	40.397 ng	100
67) 4-Bromophenyl-phenylether	10.910	248	98606	40.031 ng	100
68) Hexachlorobenzene	10.975	284	100089	39.354 ng	100
69) Atrazine	11.063	200	73933	40.295 ng	100
70) Pentachlorophenol	11.175	266	46467	40.533 ng	100
71) Phenanthrene	11.392	178	464600	39.658 ng	100
72) Anthracene	11.445	178	456164	39.526 ng	100
73) Carbazole	11.598	167	395675	39.739 ng	100
74) Di-n-butylphthalate	11.922	149	451011	40.293 ng	100
75) Fluoranthene	12.580	202	439041	40.144 ng	100
77) Benzidine	12.704	184	134710	44.725 ng	100
78) Pyrene	12.810	202	440674	37.167 ng	100
80) Butylbenzylphthalate	13.421	149	158088	41.637 ng	100
81) Benzo(a)anthracene	13.992	228	351448	40.528 ng	100
82) 3,3'-Dichlorobenzidine	13.957	252	90595	40.825 ng	100
83) Chrysene	14.033	228	307799	39.343 ng	100
84) Bis(2-ethylhexyl)phtha...	13.980	149	238798	42.951 ng	100
85) Di-n-octyl phthalate	14.592	149	439133	42.690 ng	100
87) Indeno(1,2,3-cd)pyrene	16.939	276	422742	38.929 ng	100
88) Benzo(b)fluoranthene	15.039	252	372478	39.653 ng	100
89) Benzo(k)fluoranthene	15.068	252	303576	37.326 ng	100
90) Benzo(a)pyrene	15.404	252	309949	39.228 ng	100
91) Dibenzo(a,h)anthracene	16.951	278	343548	38.540 ng	100
92) Benzo(g,h,i)perylene	17.380	276	363283	39.273 ng	100

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

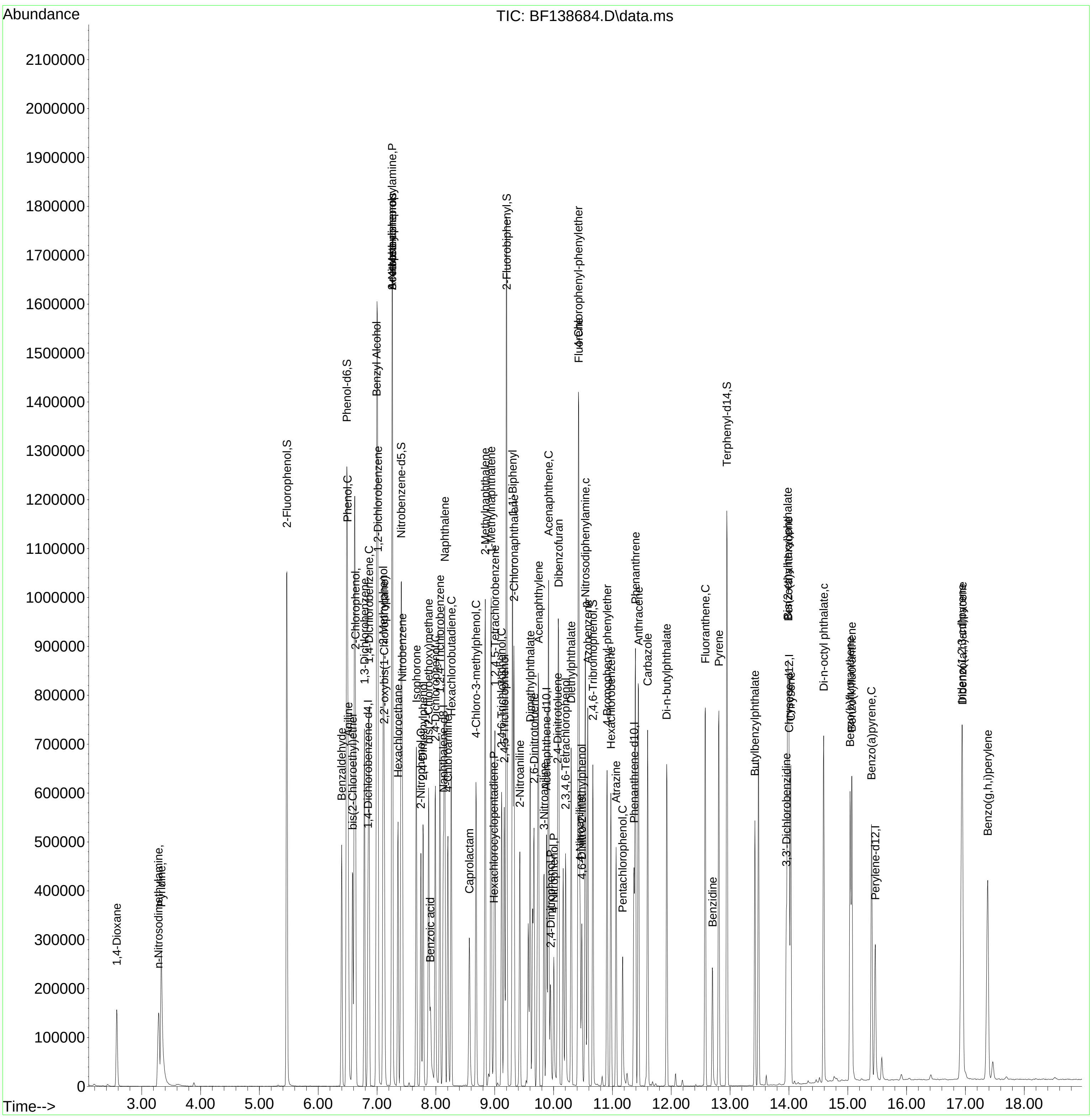
Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138684.D
Acq On : 30 Jul 2024 14:56
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

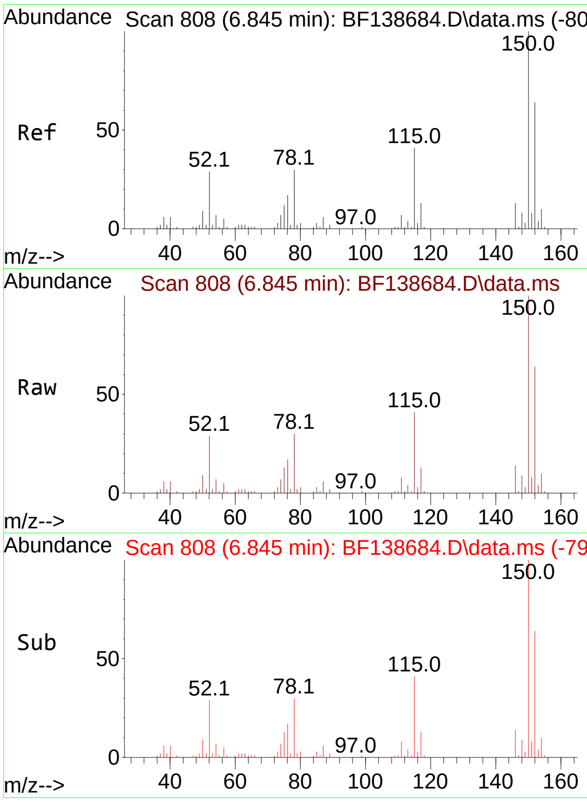
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jul 30 17:44:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



ICAL Form

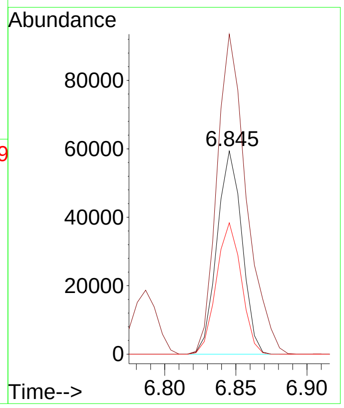
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

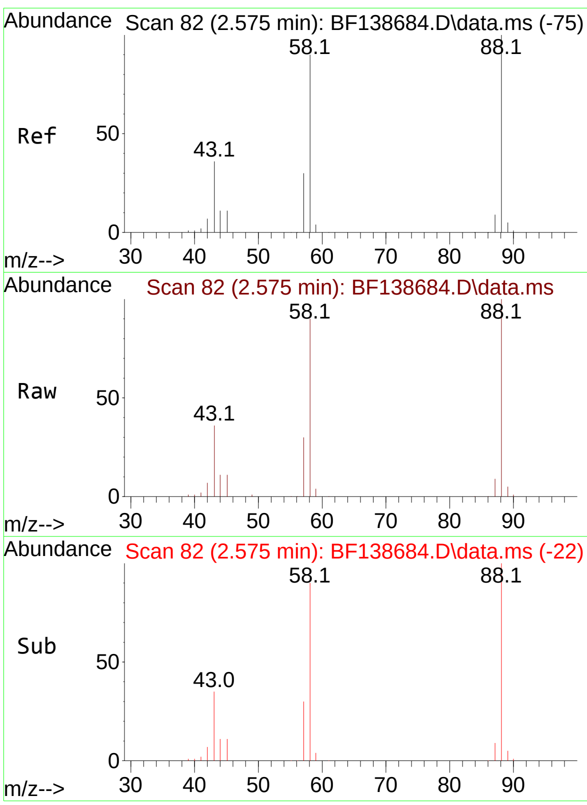


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:152 Resp: 72528

Ion	Ratio	Lower	Upper
152	100		
150	157.5	126.0	189.0
115	64.6	51.7	77.5

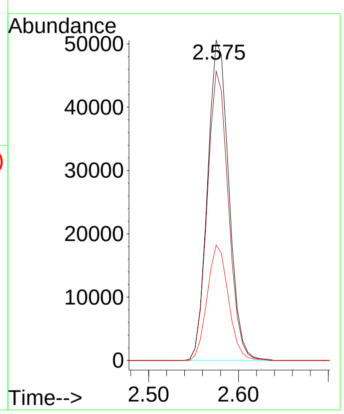




#2
1,4-Dioxane
Concen: 40.585 ng
RT: 2.575 min Scan# 82
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

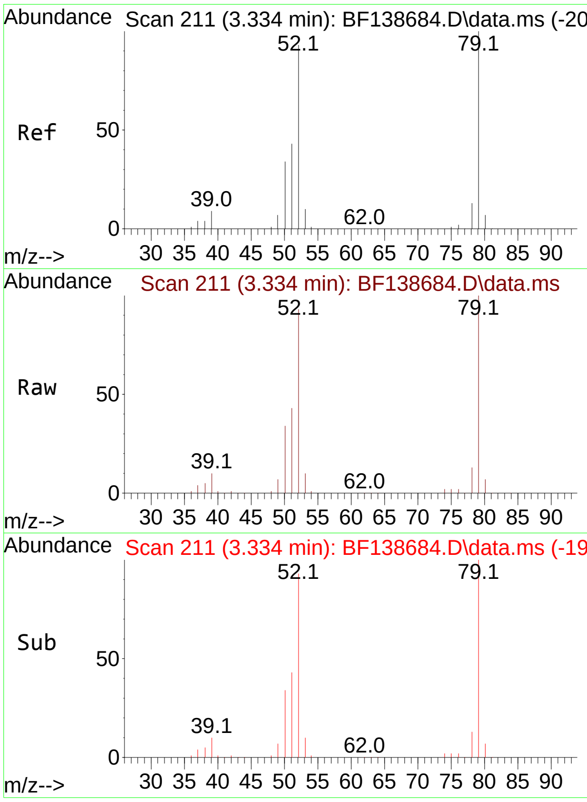
Tgt Ion: 88 Resp: 83483

Ion	Ratio	Lower	Upper
88	100		
58	89.5	71.6	107.4
43	35.9	28.7	43.1



ICAL Form

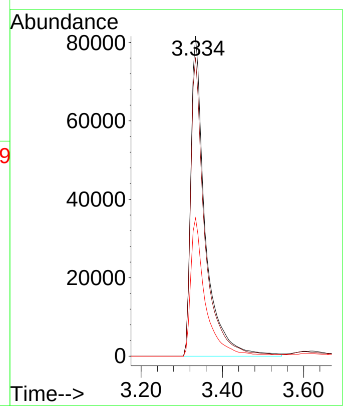
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

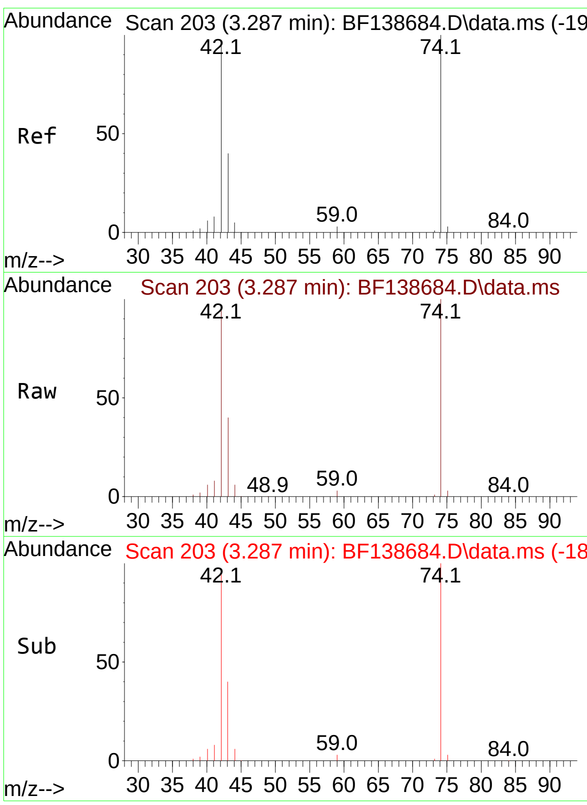


#3
Pyridine
Concen: 40.213 ng
RT: 3.334 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 79 Resp: 200383

Ion	Ratio	Lower	Upper
79	100		
52	93.4	74.7	112.1
51	43.2	34.6	51.8

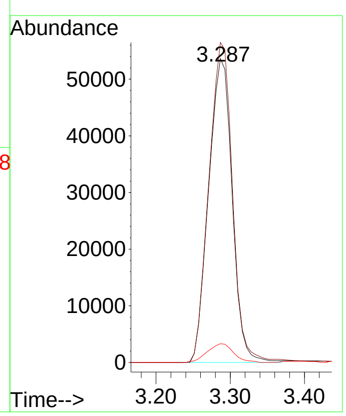




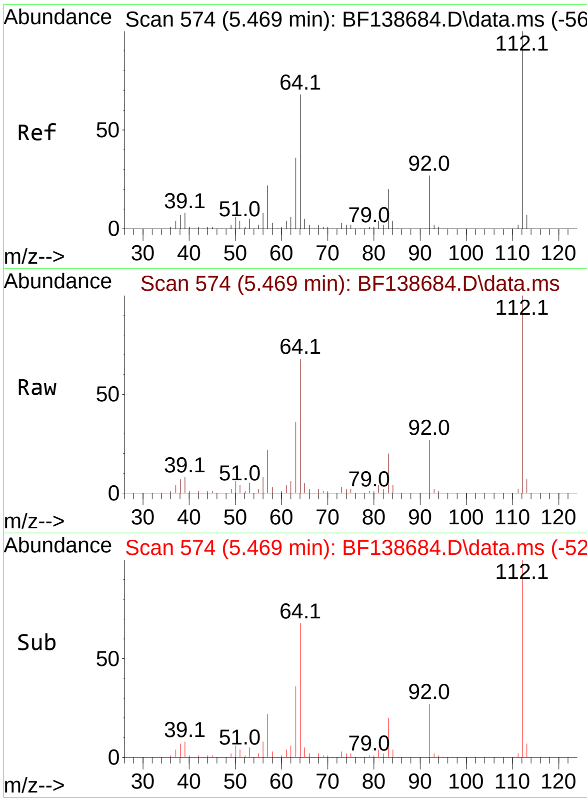
#4
n-Nitrosodimethylamine
Concen: 39.802 ng
RT: 3.287 min Scan# 203
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 42 Resp: 118122

Ion	Ratio	Lower	Upper
42	100		
74	105.3	84.2	126.4
44	6.1	4.9	7.3



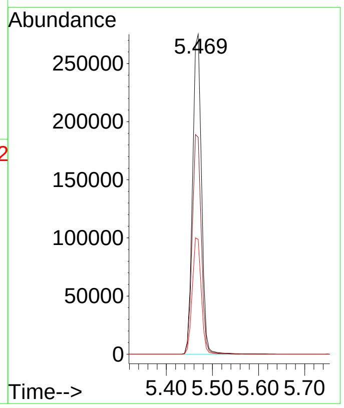
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

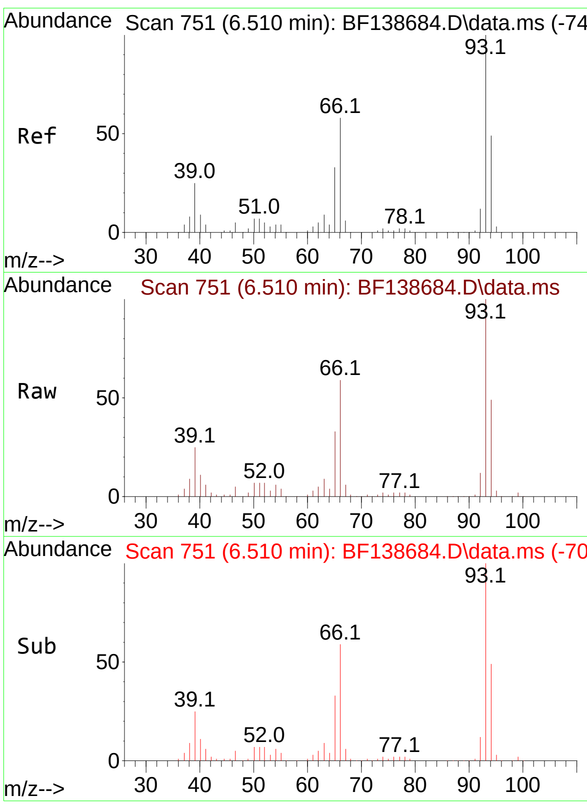


#5
2-Fluorophenol
Concen: 78.662 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:112 Resp: 369590

Ion	Ratio	Lower	Upper
112	100		
64	67.8	54.2	81.4
63	35.9	28.7	43.1

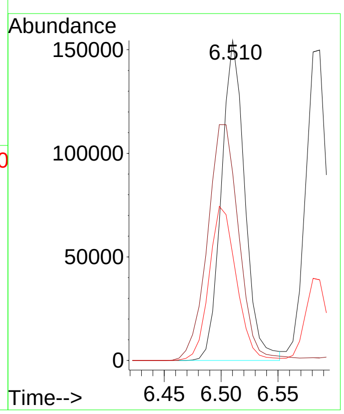




#6
Aniline
Concen: 39.503 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

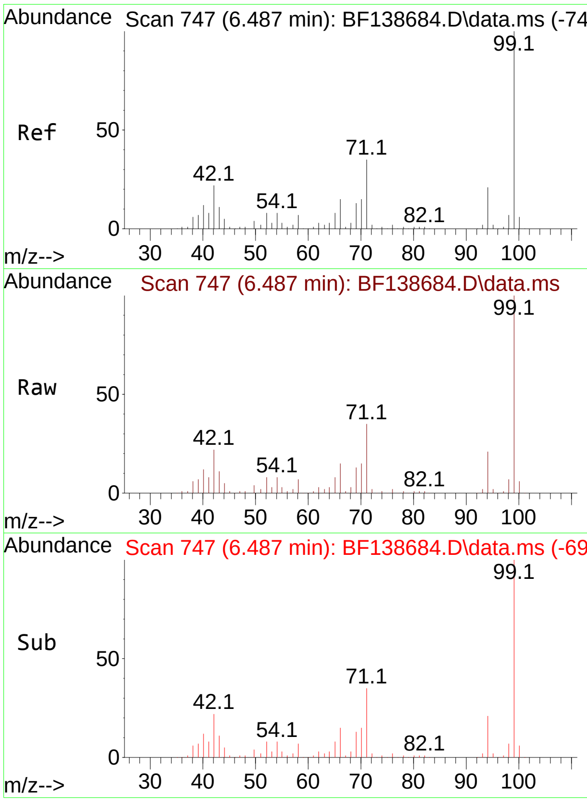
Tgt Ion: 93 Resp: 222231

Ion	Ratio	Lower	Upper
93	100		
66	58.6	46.9	70.3
65	33.1	26.5	39.7



ICAL Form

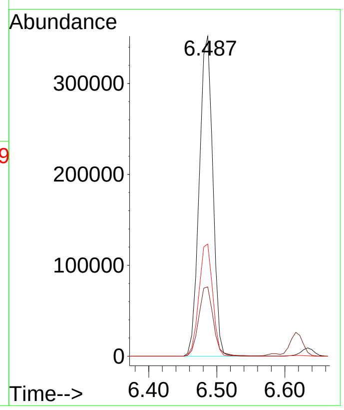
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

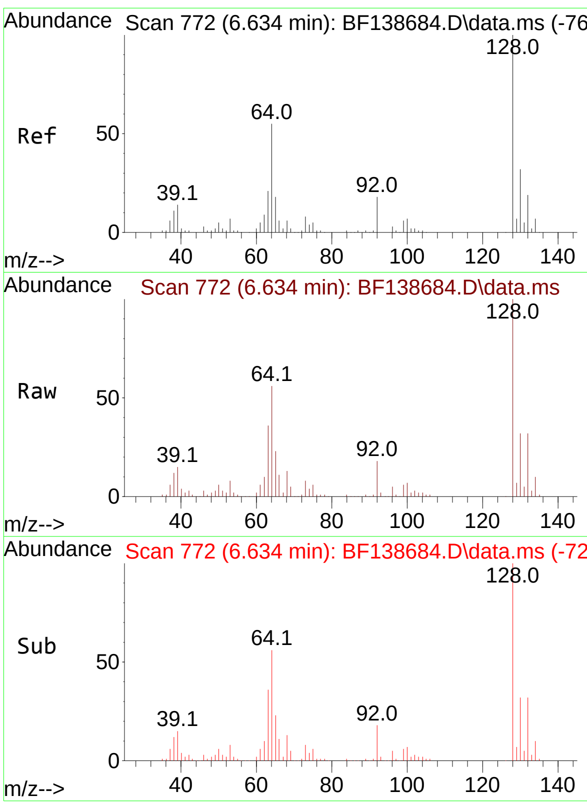


#7
Phenol-d6
Concen: 77.330 ng
RT: 6.487 min   Scan# 74
Delta R.T.   0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024   14:56

Tgt Ion: 99 Resp: 487812

Ion	Ratio	Lower	Upper
99	100		
42	21.7	17.4	26.0
71	35.1	28.1	42.1

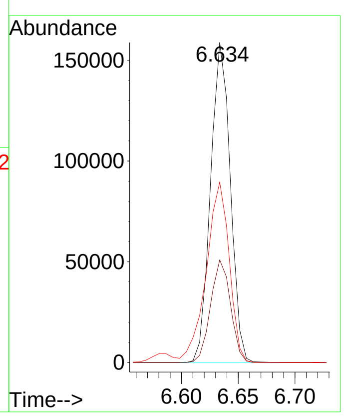




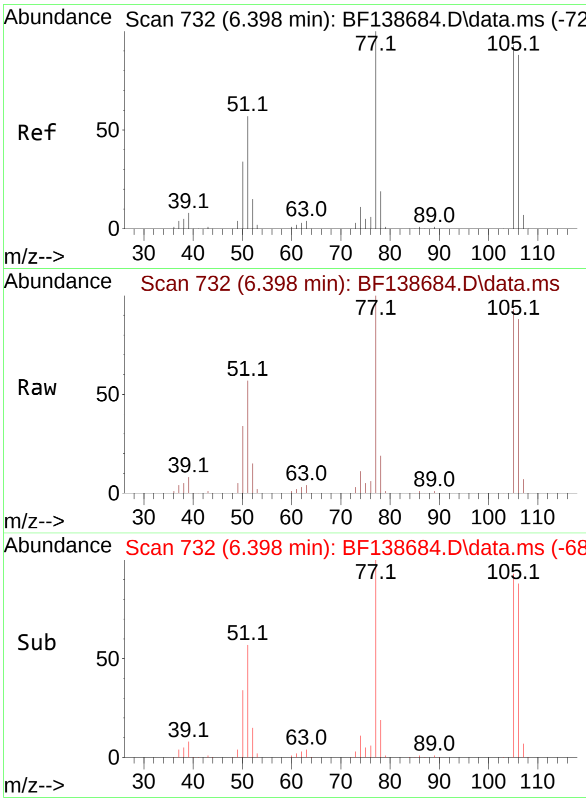
#8
2-Chlorophenol
Concen: 38.889 ng
RT: 6.634 min   Scan# 772
Delta R.T.   0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024   14:56

Tgt Ion:128 Resp: 192242

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.0	52.0
64	56.3	36.3	76.3



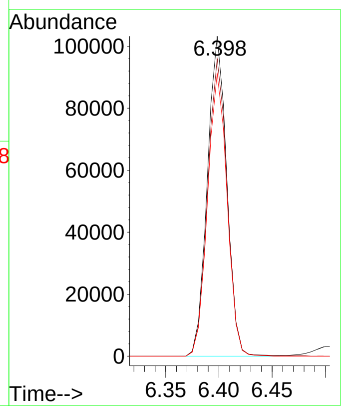
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

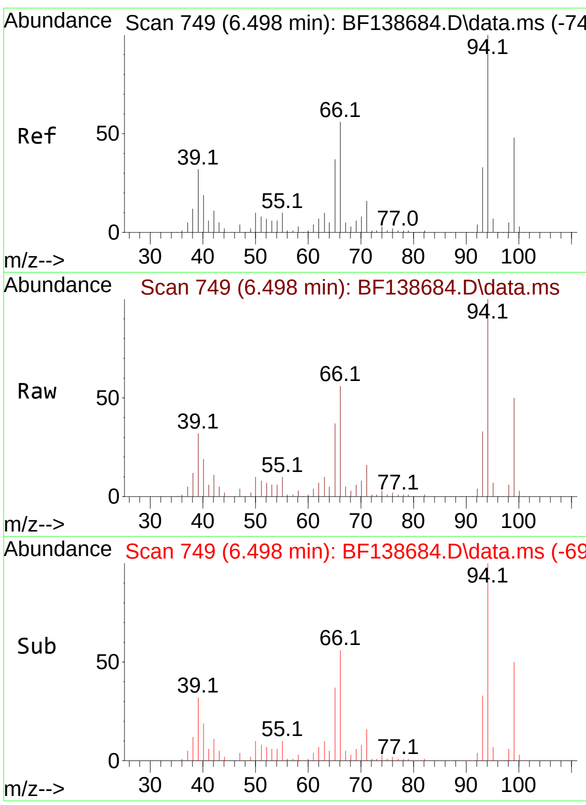


#9
Benzaldehyde
Concen: 34.687 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 77 Resp: 131168

Ion	Ratio	Lower	Upper
77	100		
105	92.9	72.9	112.9
106	88.4	68.4	108.4

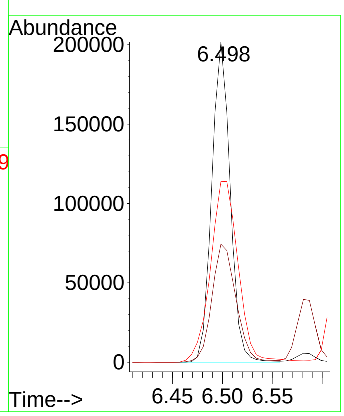




#10
Phenol
Concen: 38.764 ng
RT: 6.498 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

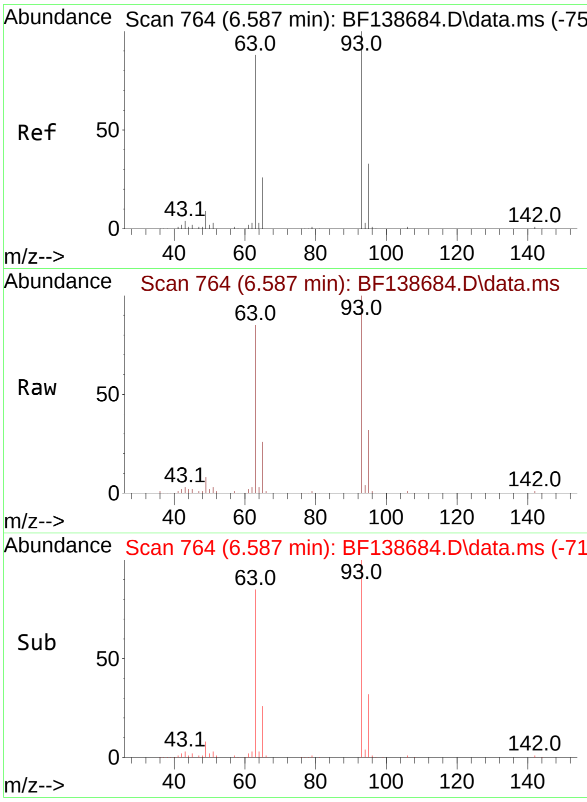
Tgt Ion: 94 Resp: 257462

Ion	Ratio	Lower	Upper
94	100		
65	36.9	16.9	56.9
66	56.5	36.5	76.5



ICAL Form

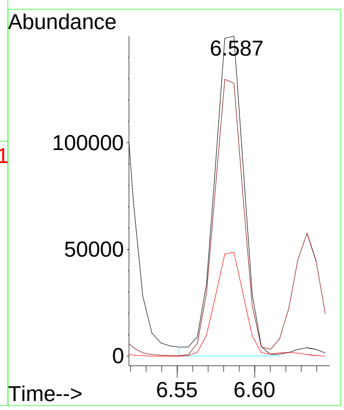
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

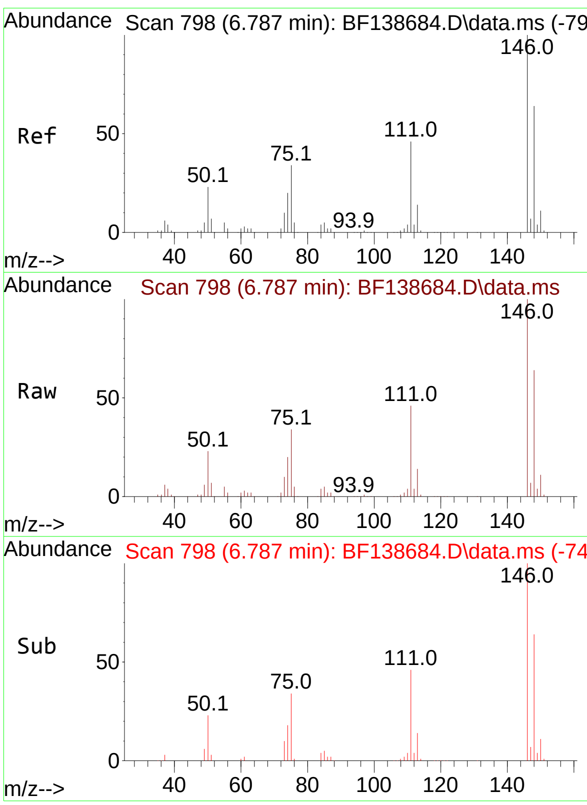


#11
bis(2-Chloroethyl)ether
Concen: 38.681 ng
RT: 6.587 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 93 Resp: 197702

Ion	Ratio	Lower	Upper
93	100		
63	85.3	65.3	105.3
95	32.4	12.4	52.4

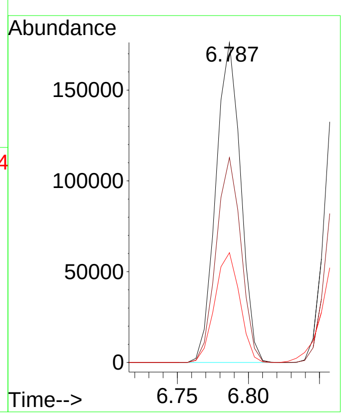




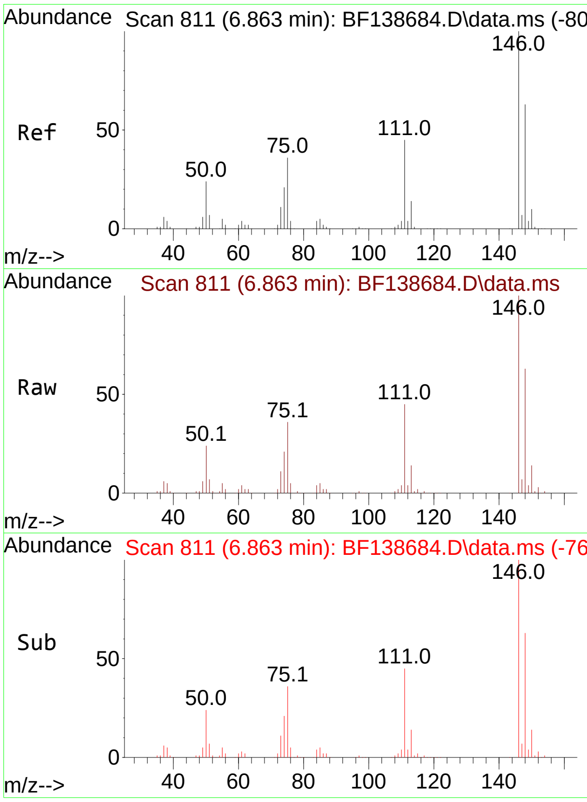
#12
1,3-Dichlorobenzene
Concen: 38.660 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:146 Resp: 213925

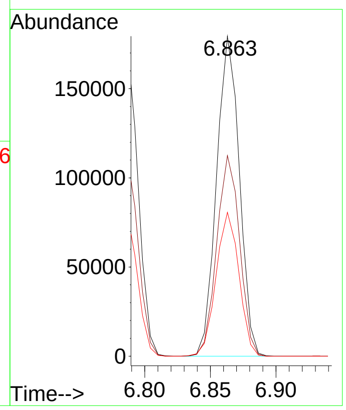
Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
75	34.3	27.4	41.2

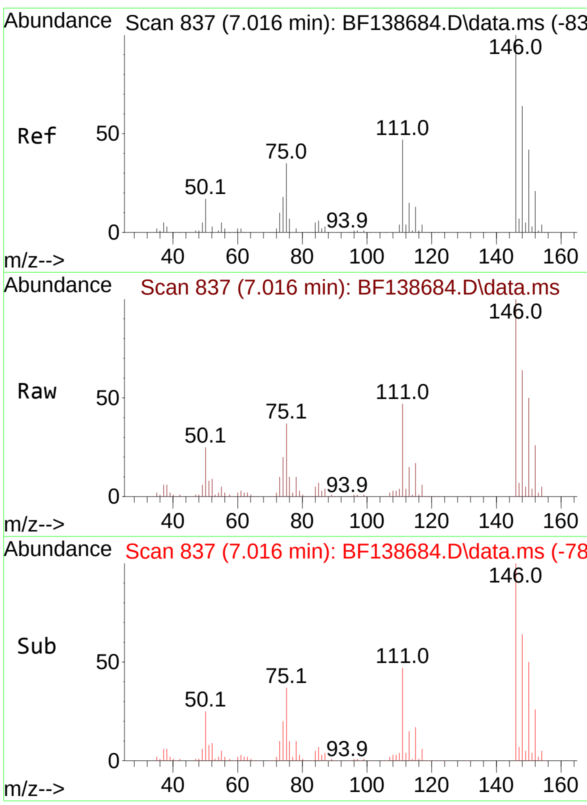


Instrument : BNA_F
ClientSampleId : SSTDICCC040

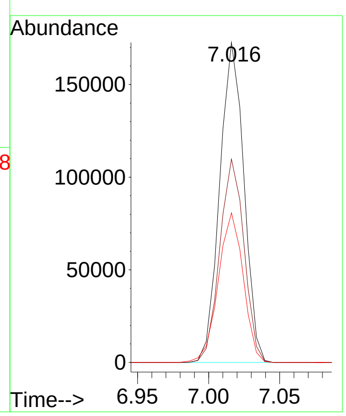



```
#13
1,4-Dichlorobenzene
Concen:   38.861 ng
RT:   6.863 min   Scan# 8
Delta R.T.   0.000 min
Lab File:    BF138684.D
Acq: 30 Jul 2024   14:56

Tgt Ion:146 Resp:   217011
Ion   Ratio   Lower   Upper
146   100
148    62.7    50.2    75.2
111    44.9    35.9    53.9
```

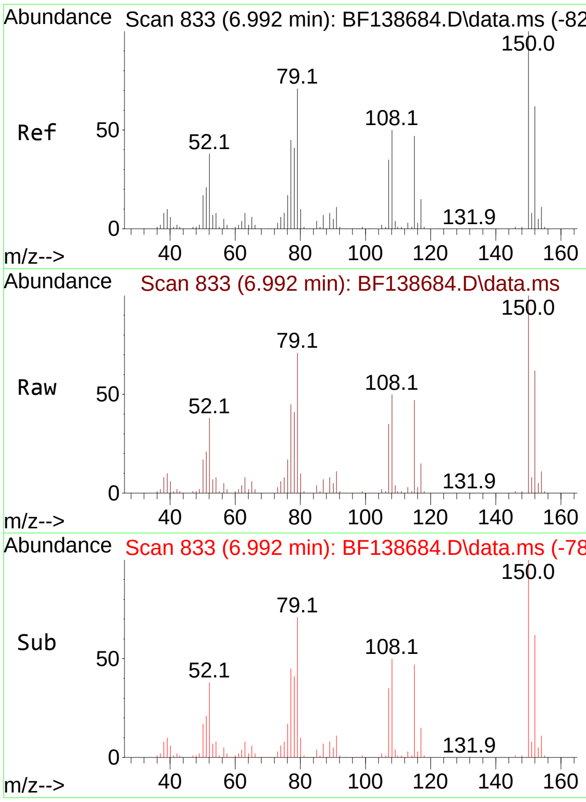





```
#14
1,2-Dichlorobenzene
Concen:   39.143 ng
RT:   7.016 min   Scan# 837
Delta R.T.   0.000 min
Lab File:    BF138684.D
Acq: 30 Jul 2024   14:56

Tgt Ion:146 Resp:   204280
Ion   Ratio   Lower   Upper
146   100
148    63.5    50.8    76.2
111    46.8    37.4    56.2
```



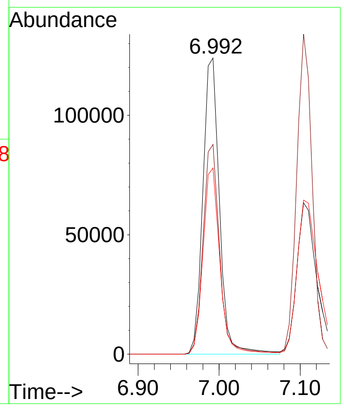
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

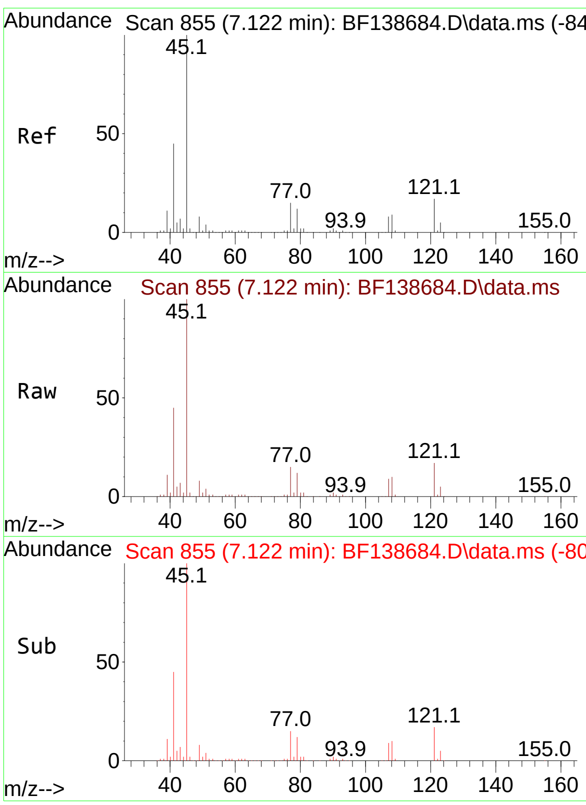


#15
Benzyl Alcohol
Concen: 38.872 ng
RT: 6.992 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 79 Resp: 176734

Ion	Ratio	Lower	Upper
79	100		
108	70.8	56.6	85.0
77	62.9	50.3	75.5

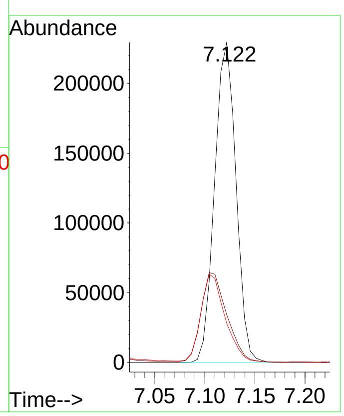




#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.757 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

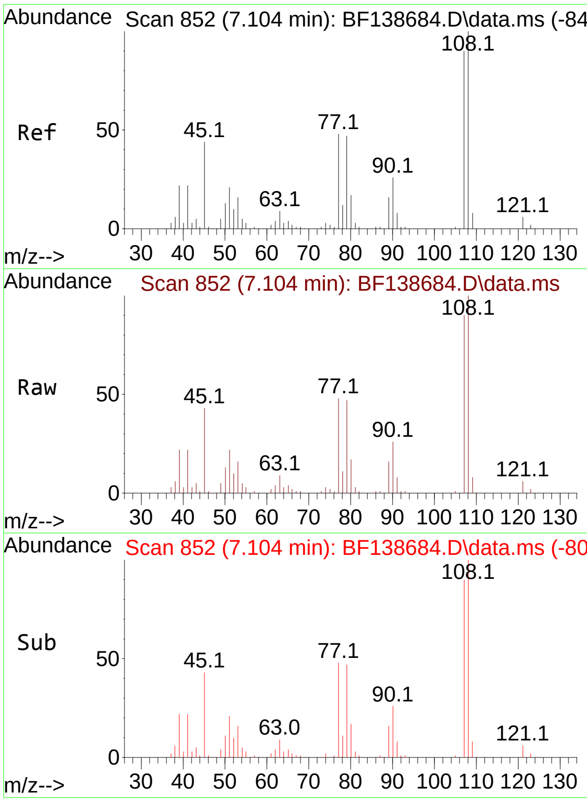
Tgt Ion: 45 Resp: 340905

Ion	Ratio	Lower	Upper
45	100		
77	14.9	0.0	34.9
79	12.2	0.0	32.2



ICAL Form

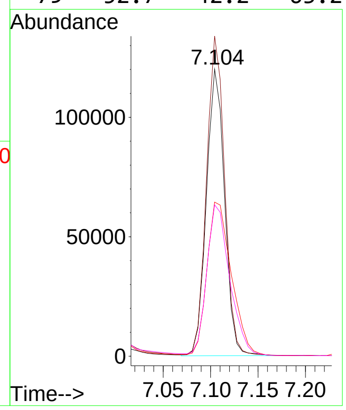
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

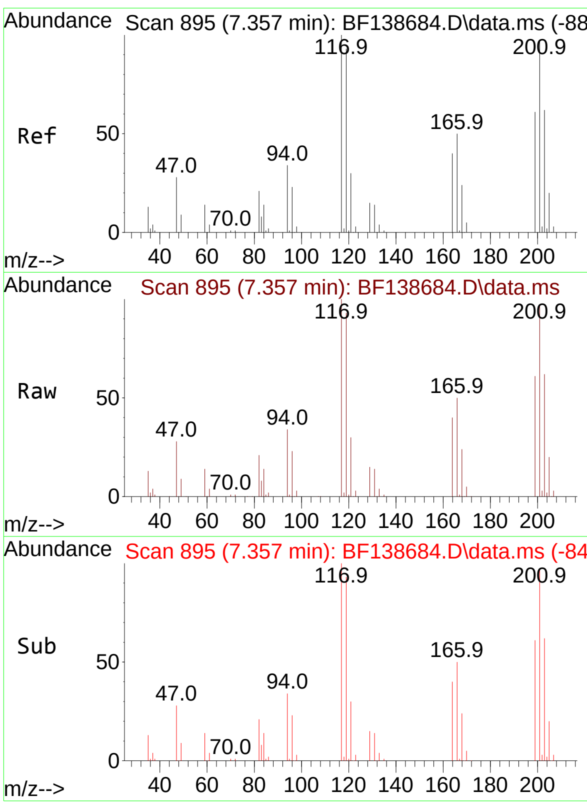


#17
2-Methylphenol
Concen: 39.204 ng
RT: 7.104 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:107 Resp: 160028

Ion	Ratio	Lower	Upper
107	100		
108	111.5	89.2	133.8
77	53.7	43.0	64.4
79	52.7	42.2	63.2

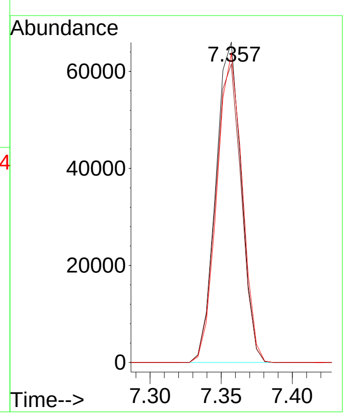




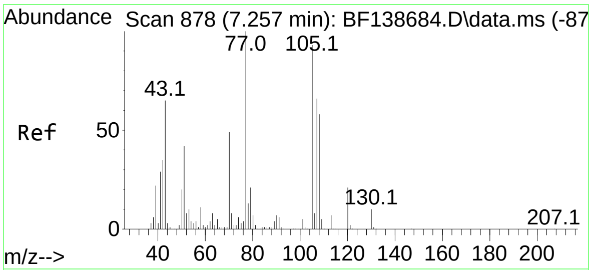
#18
Hexachloroethane
Concen: 39.176 ng
RT: 7.357 min Scan# 895
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

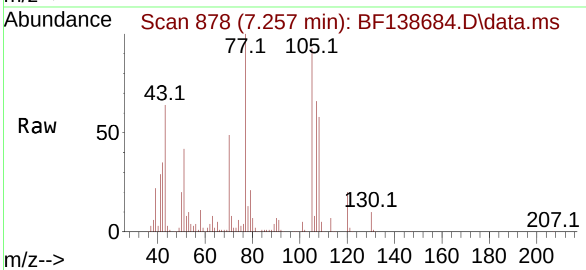
Tgt Ion:117 Resp: 82349

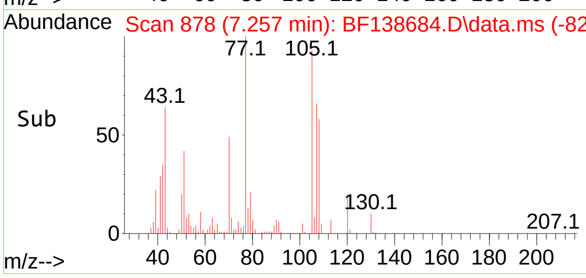
Ion	Ratio	Lower	Upper
117	100		
119	93.2	74.6	111.8
201	96.5	77.2	115.8



Instrument : BNA_F
ClientSampleId : SSTDICCC040



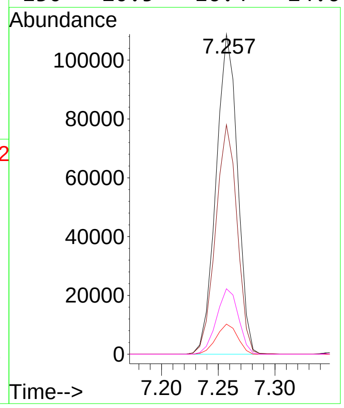


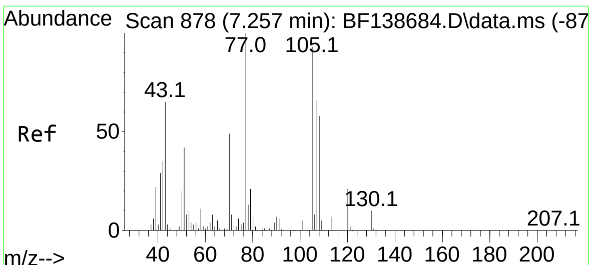


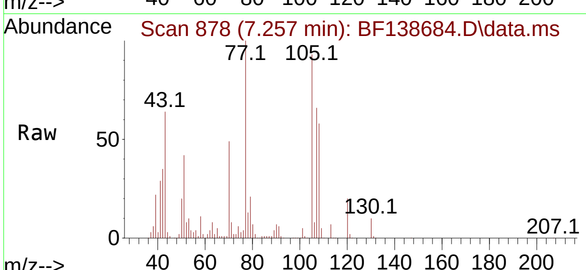
#19
n-Nitroso-di-n-propylamine
Concen: 37.772 ng
RT: 7.257 min Scan# 878
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

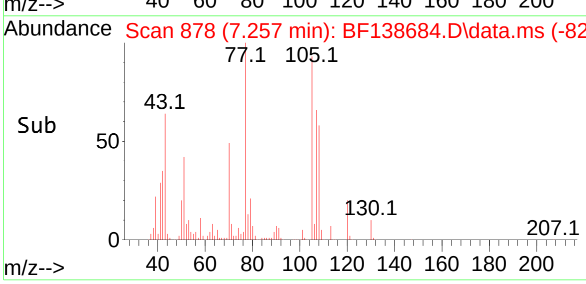
Tgt Ion: 70 Resp: 143913

Ion	Ratio	Lower	Upper
70	100		
42	71.7	57.4	86.0
101	9.4	7.5	11.3
130	20.5	16.4	24.6





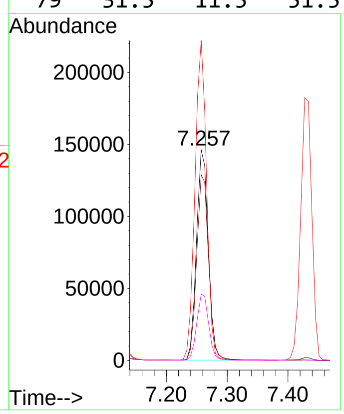




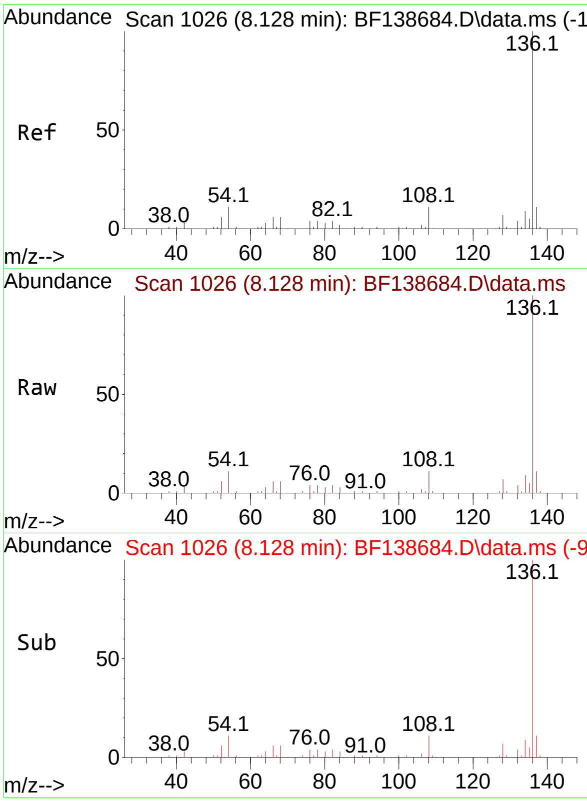
#20
3+4-Methylphenols
Concen: 37.862 ng
RT: 7.257 min Scan# 878
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:107 Resp: 198296

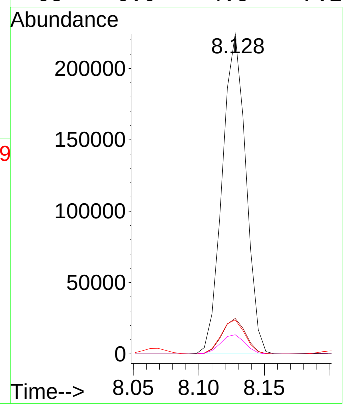
Ion	Ratio	Lower	Upper
107	100		
108	88.2	68.2	108.2
77	152.1	132.1	172.1
79	31.5	11.5	51.5

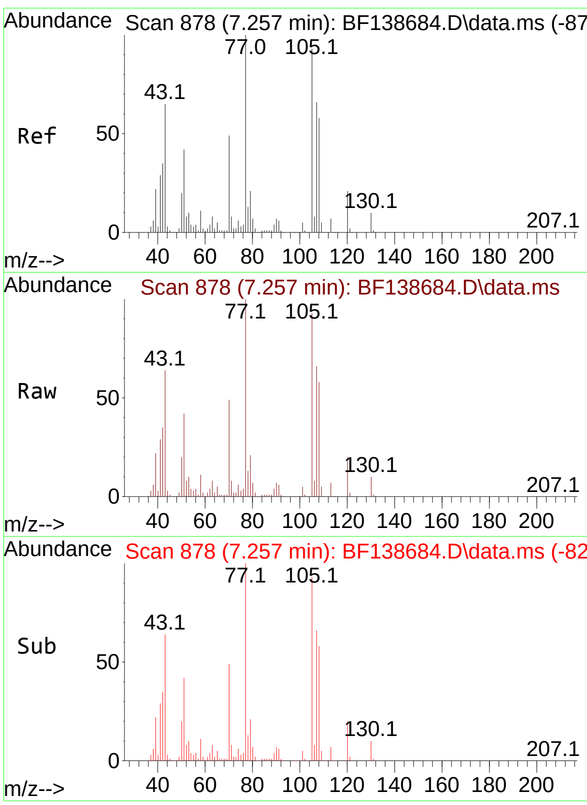


Instrument : BNA_F
ClientSampleId : SSTDICCC040

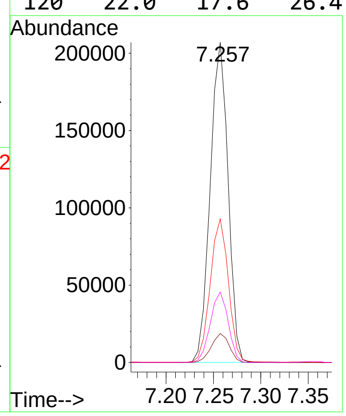


```
#21
Naphthalene-d8
Concen:    20.000 ng
RT:    8.128 min   Scan# 1026
Delta R.T.   0.000 min
Lab File:    BF138684.D
Acq: 30 Jul 2024   14:56

Tgt Ion:136 Resp:   281315
Ion   Ratio   Lower   Upper
136   100
137    11.1     8.9    13.3
 54    10.7     8.6    12.8
 68     6.0     4.8     7.2
```

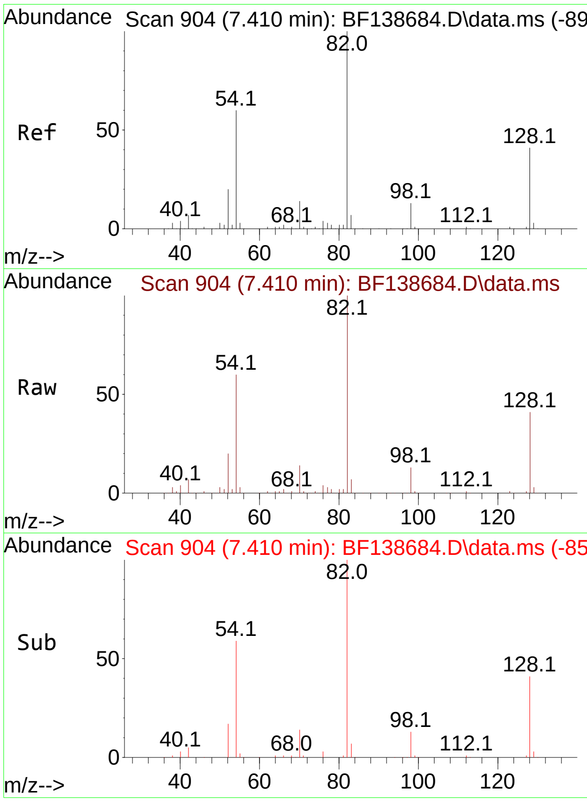




```
#22
Acetophenone
Concen:    39.378 ng
RT:    7.257 min   Scan# 878
Delta R.T.   0.000 min
Lab File:    BF138684.D
Acq: 30 Jul 2024   14:56

Tgt Ion:105 Resp:   271238
Ion   Ratio   Lower   Upper
105   100
 71     9.0     7.2    10.8
 51    44.9    35.9    53.9
120    22.0    17.6    26.4
```



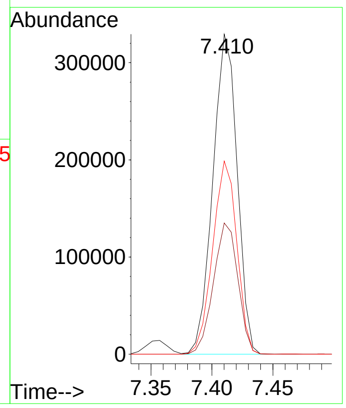
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

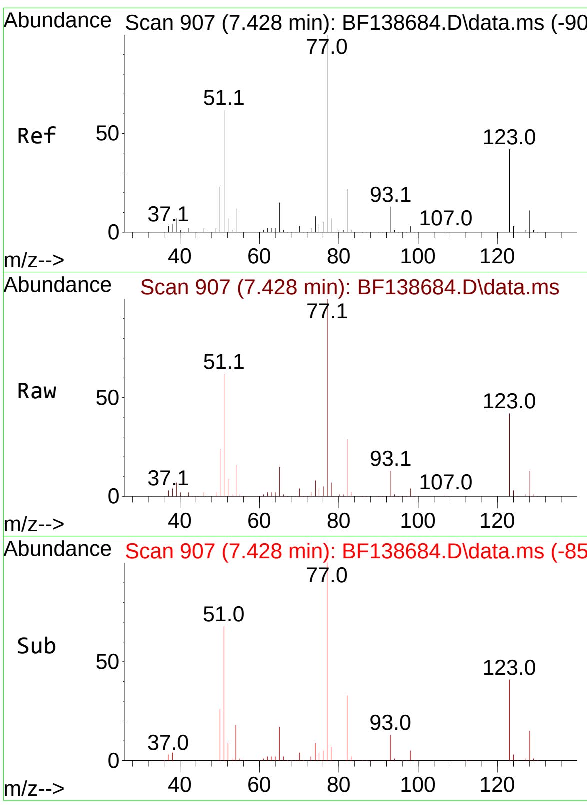


#23
Nitrobenzene-d5
Concen: 79.539 ng
RT: 7.410 min Scan# 90
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 82 Resp: 457661

Ion	Ratio	Lower	Upper
82	100		
128	41.0	32.8	49.2
54	60.4	48.3	72.5

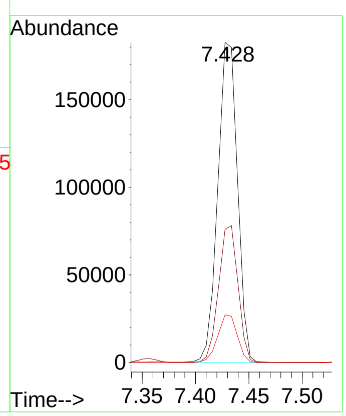




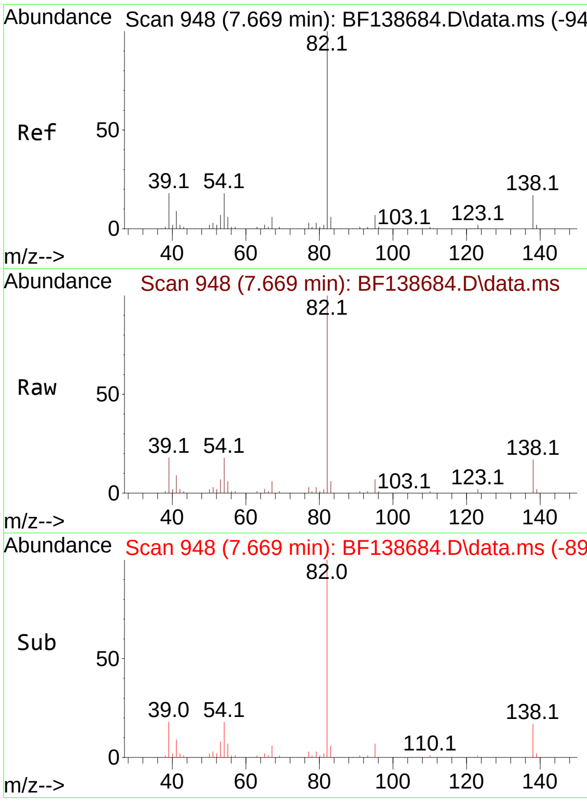
#24
Nitrobenzene
Concen: 40.040 ng
RT: 7.428 min Scan# 907
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 77 Resp: 234435

Ion	Ratio	Lower	Upper
77	100		
123	41.6	33.3	49.9
65	14.9	11.9	17.9



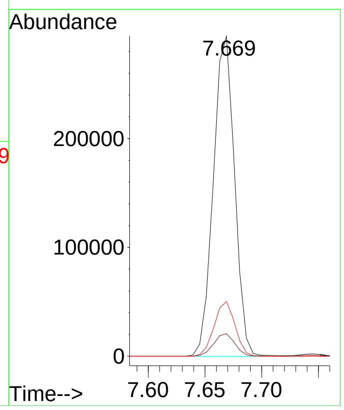
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

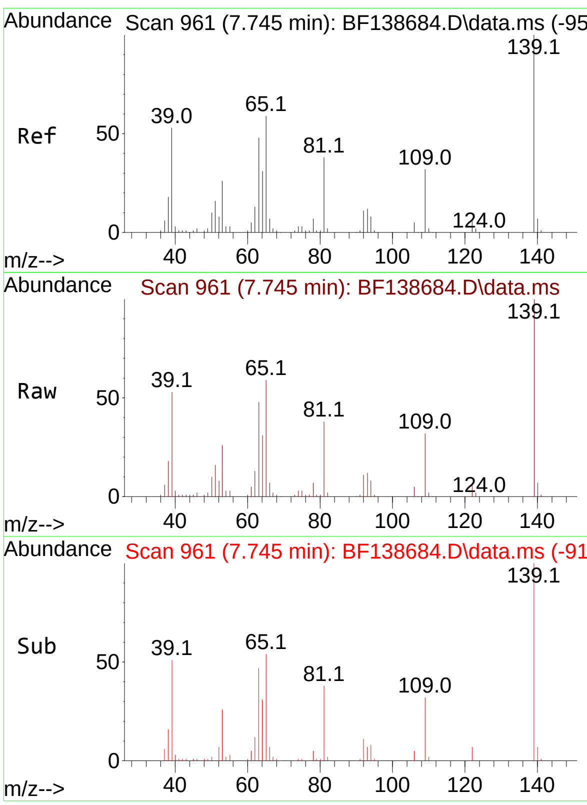


#25
Isophorone
Concen: 38.969 ng
RT: 7.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 82 Resp: 382875

Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.7	8.5
138	17.1	13.7	20.5

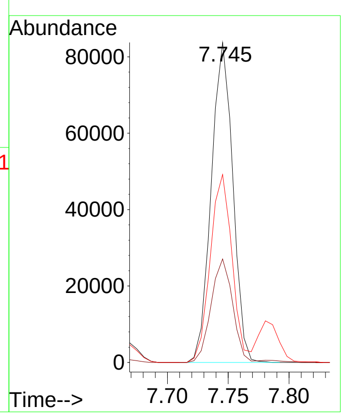




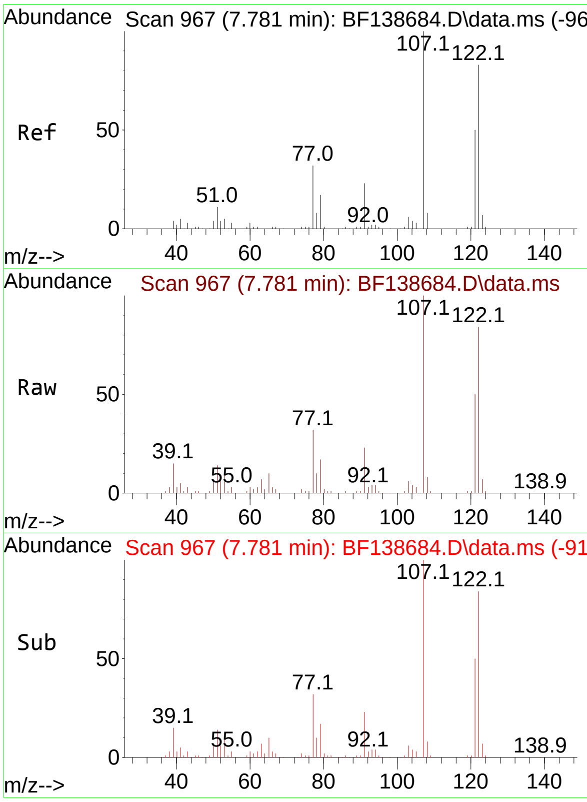
#26
2-Nitrophenol
Concen: 40.990 ng
RT: 7.745 min Scan# 961
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:139 Resp: 103255

Ion	Ratio	Lower	Upper
139	100		
109	32.4	25.9	38.9
65	58.8	47.0	70.6



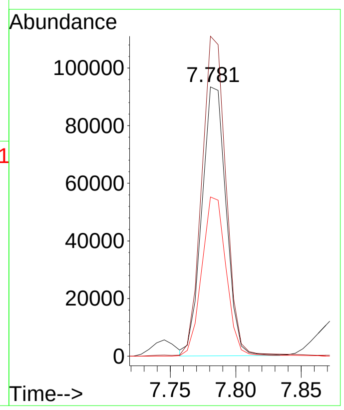
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

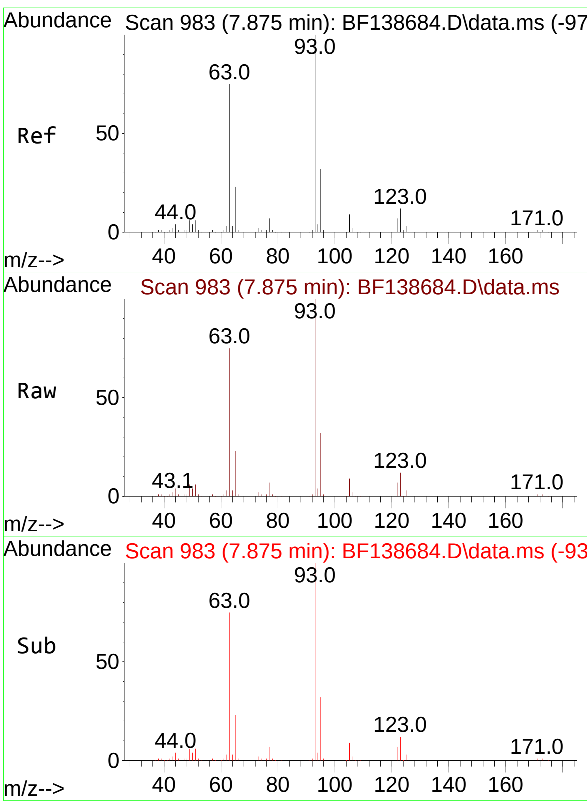


#27
2,4-Dimethylphenol
Concen: 39.890 ng
RT: 7.781 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:122 Resp: 120225

Ion	Ratio	Lower	Upper
122	100		
107	118.8	95.0	142.6
121	59.1	47.3	70.9

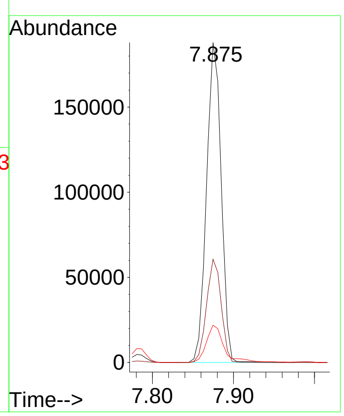




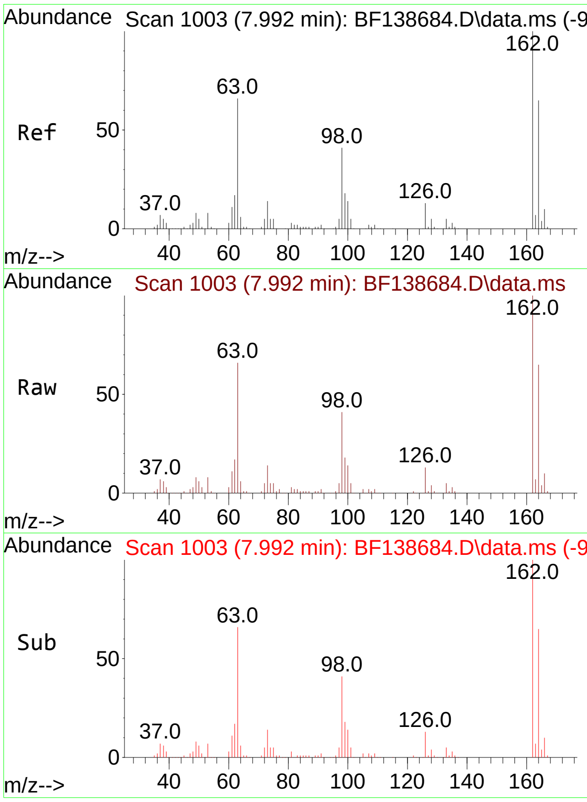
#28
bis(2-Chloroethoxy)methane
Concen: 39.348 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 93 Resp: 235424

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.8	38.8
123	11.7	9.4	14.0



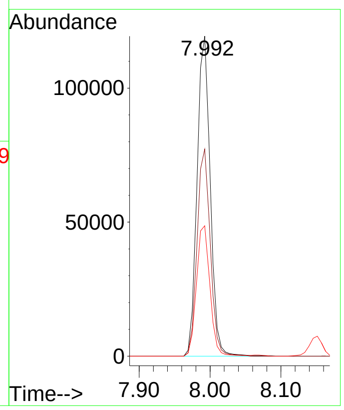
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

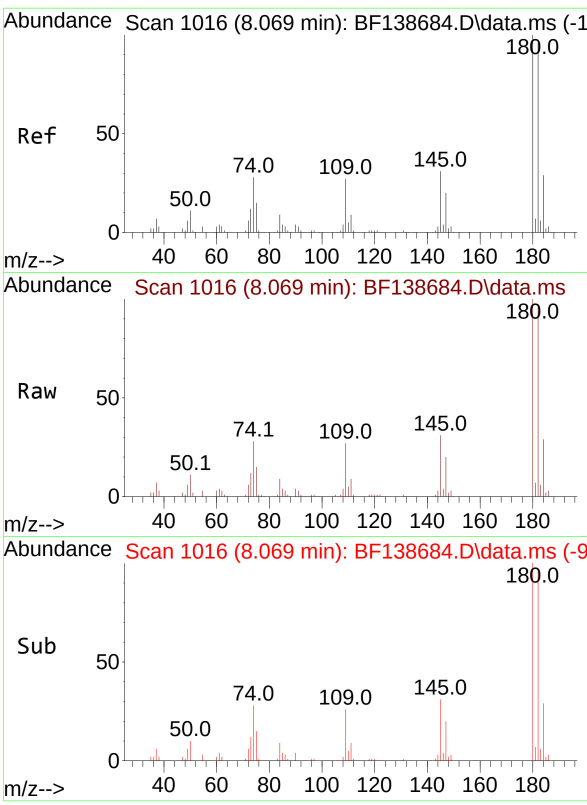


#29
2,4-Dichlorophenol
Concen: 40.030 ng
RT: 7.992 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:162 Resp: 155028

Ion	Ratio	Lower	Upper
162	100		
164	64.7	44.7	84.7
98	40.8	20.8	60.8

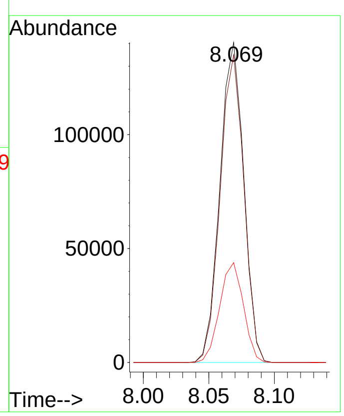




#30
1,2,4-Trichlorobenzene
Concen: 39.835 ng
RT: 8.069 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:180 Resp: 178035

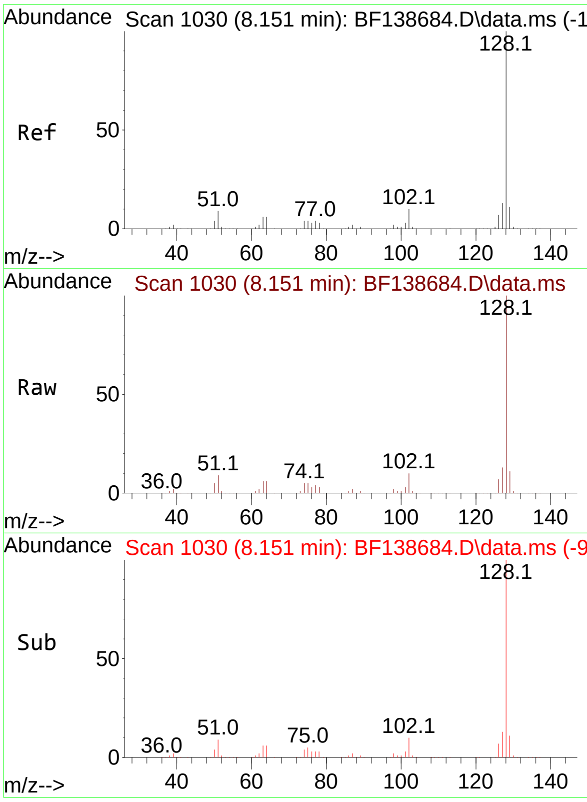
Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.9	115.3
145	31.2	25.0	37.4



ICAL Form

Instrument : BNA_F

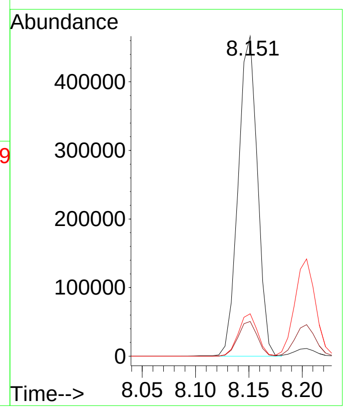
ClientSampleId : SSTDICCC040

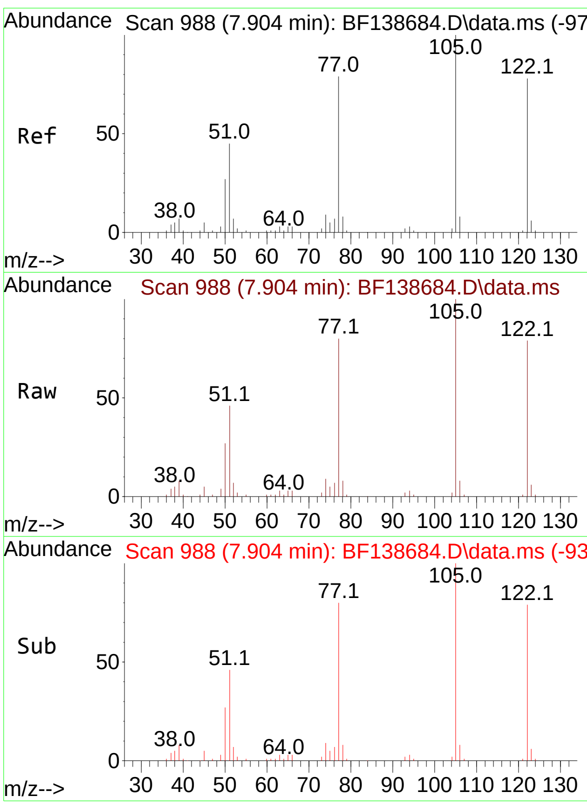


#31
Naphthalene
Concen: 39.655 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:128 Resp: 587199

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.3	10.6	16.0

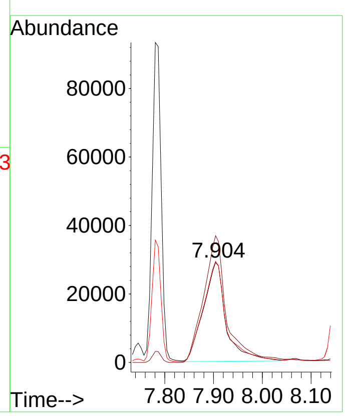




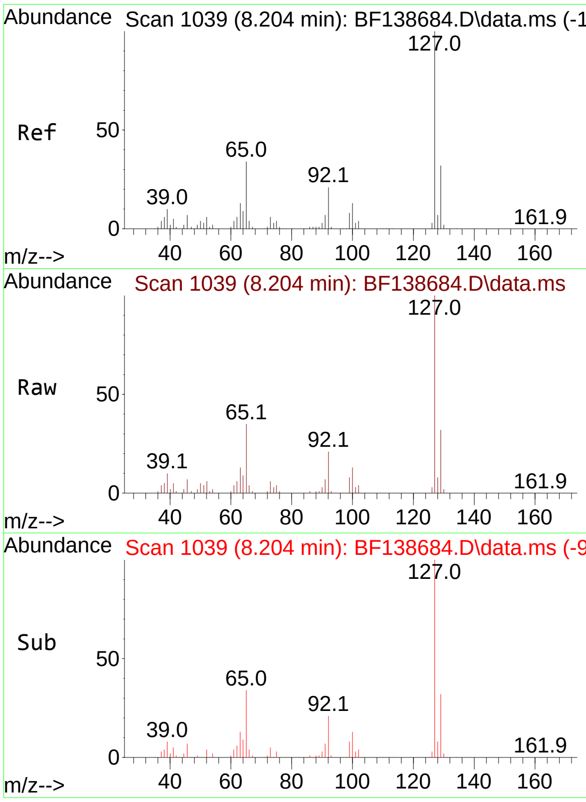
#32
Benzoic acid
Concen: 39.389 ng
RT: 7.904 min Scan# 988
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:122 Resp: 93278

Ion	Ratio	Lower	Upper
122	100		
105	126.7	106.7	146.7
77	101.1	81.1	121.1



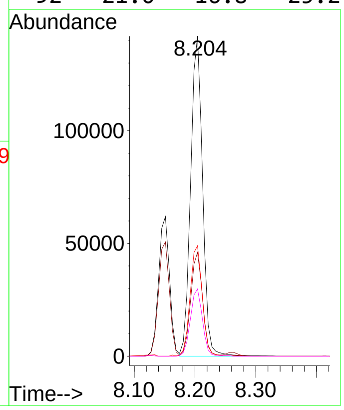
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

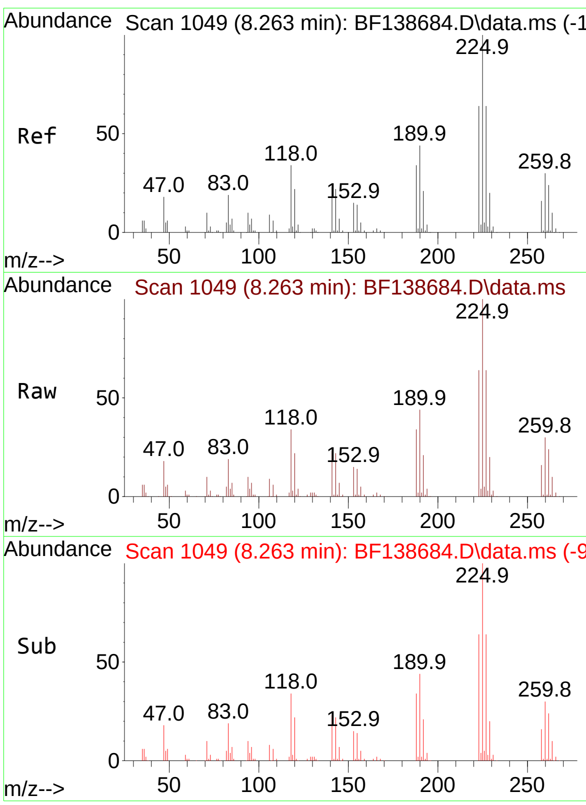


#33
4-Chloroaniline
Concen: 39.130 ng
RT: 8.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:127 Resp: 194499

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.9	38.9
65	34.5	27.6	41.4
92	21.0	16.8	25.2

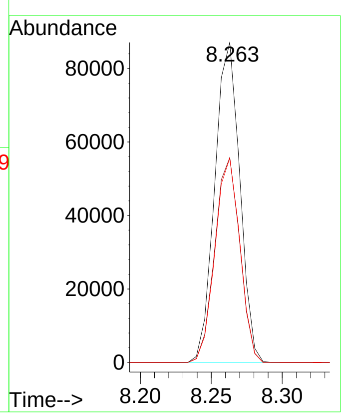




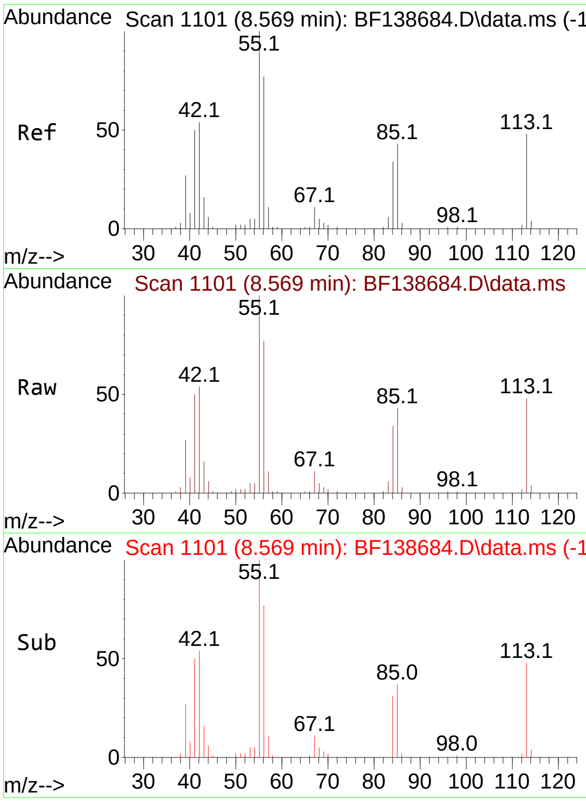
#34
Hexachlorobutadiene
Concen: 39.476 ng
RT: 8.263 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:225 Resp: 106863

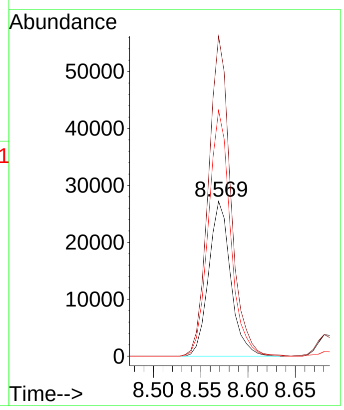
Ion	Ratio	Lower	Upper
225	100		
223	64.0	51.2	76.8
227	63.9	51.1	76.7

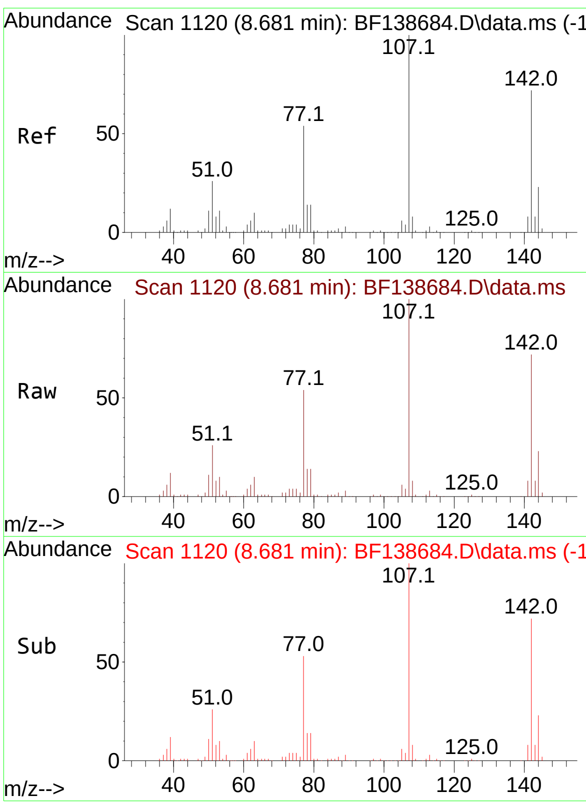


Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

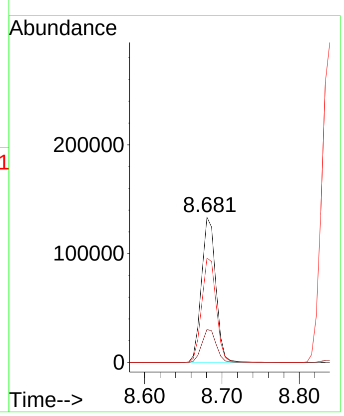



```
#35
Caprolactam
Concen:   37.984 ng
RT:   8.569 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   BF138684.D
Acq: 30 Jul 2024  14:56

Tgt Ion:113 Resp:   43894
Ion  Ratio  Lower  Upper
113  100
 55  206.7  186.7  226.7
 56  158.9  138.9  178.9
```

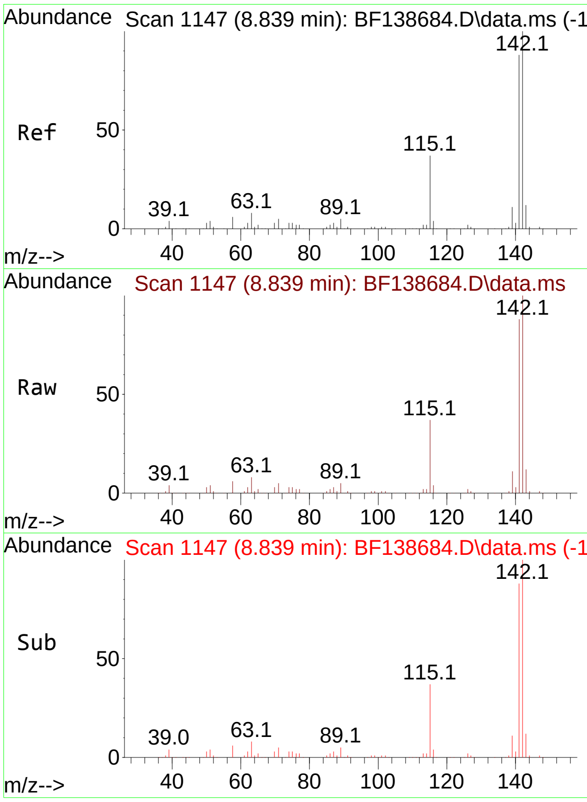





```
#36
4-Chloro-3-methylphenol
Concen:   38.983 ng
RT:   8.681 min  Scan# 1120
Delta R.T.  0.000 min
Lab File:   BF138684.D
Acq: 30 Jul 2024  14:56

Tgt Ion:107 Resp:  172540
Ion  Ratio  Lower  Upper
107  100
144   22.7   18.2   27.2
142   71.8   57.4   86.2
```



ICAL Form



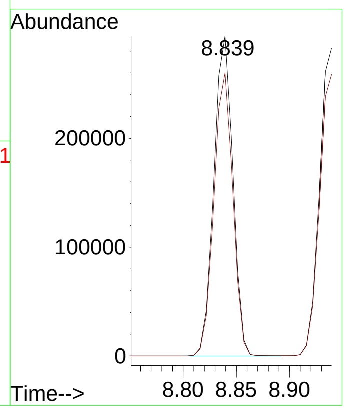
#37
2-Methylnaphthalene
Concen: 39.019 ng
RT: 8.839 min Scan# 1

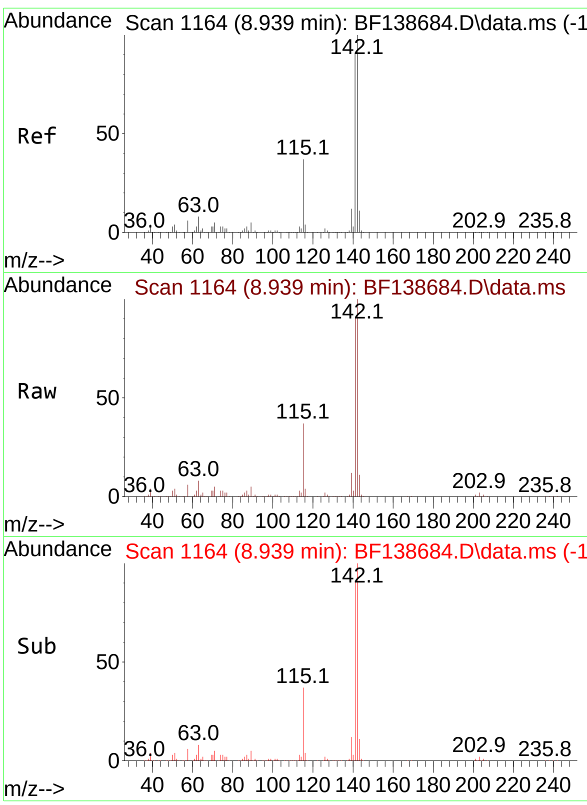
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:142 Resp: 364899

Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.8	106.2

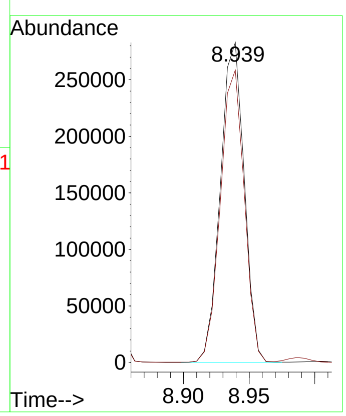


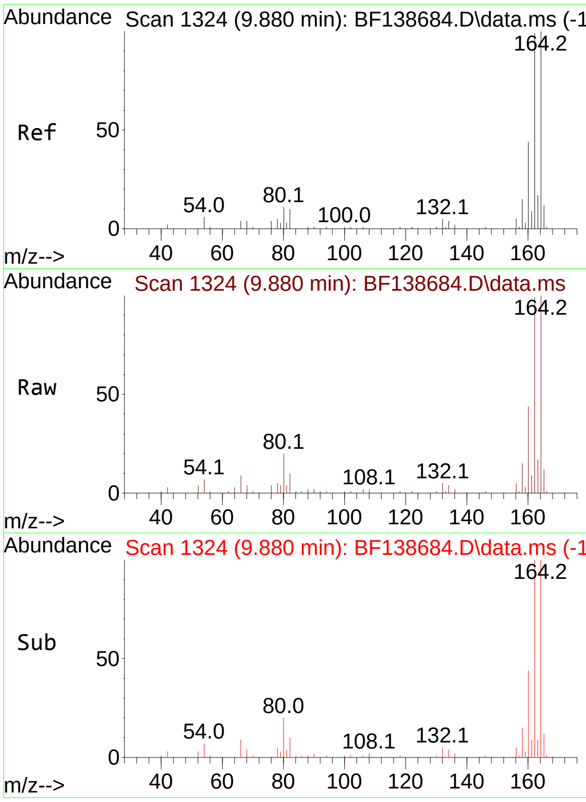


#38
1-Methylnaphthalene
Concen: 39.045 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:142 Resp: 357806

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.1	109.7



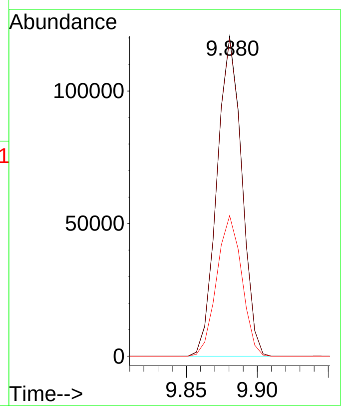


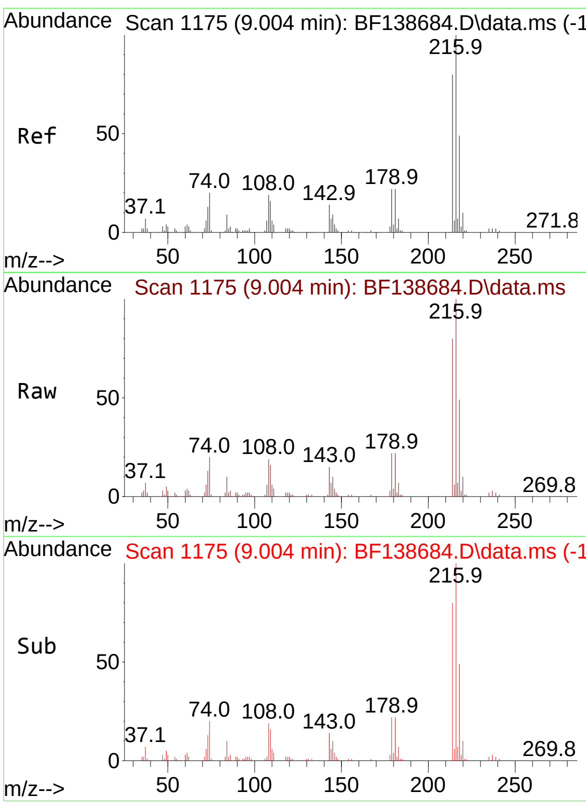
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min   Scan# 1324
Delta R.T.   0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024   14:56

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 146962

Ion	Ratio	Lower	Upper
164	100		
162	99.2	79.4	119.0
160	43.9	35.1	52.7

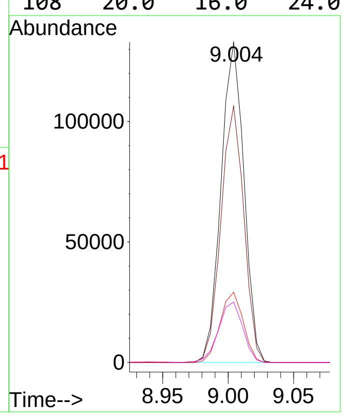




#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.628 ng
RT: 9.004 min   Scan# 1175
Delta R.T.   0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024   14:56

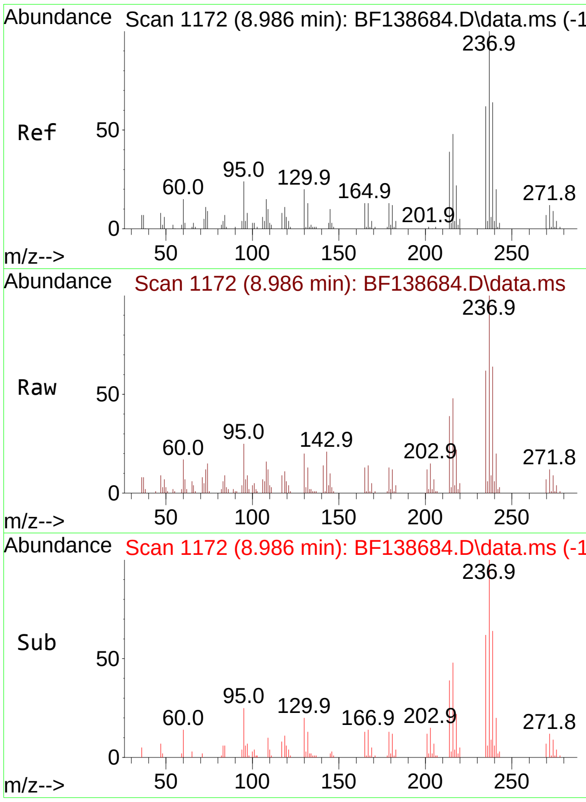
Tgt Ion:216 Resp: 161777

Ion	Ratio	Lower	Upper
216	100		
214	79.9	63.9	95.9
179	22.2	17.8	26.6
108	20.0	16.0	24.0



ICAL Form

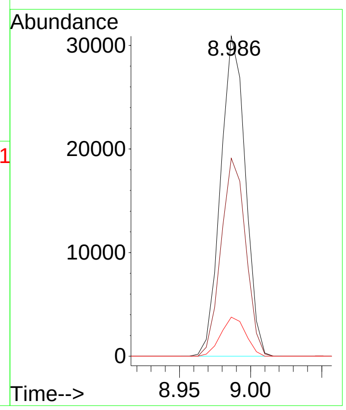
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

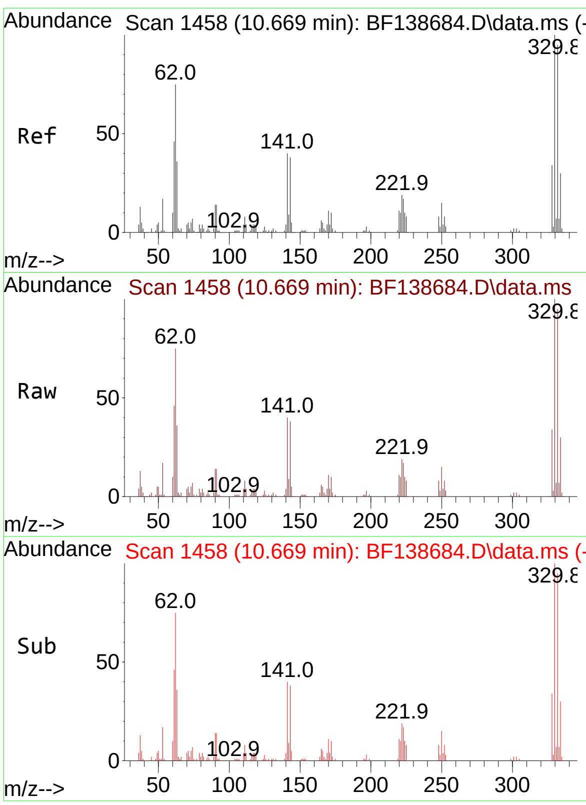


#41
Hexachlorocyclopentadiene
Concen: 38.484 ng
RT: 8.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:237 Resp: 37306

Ion	Ratio	Lower	Upper
237	100		
235	61.8	41.8	81.8
272	12.2	0.0	32.2

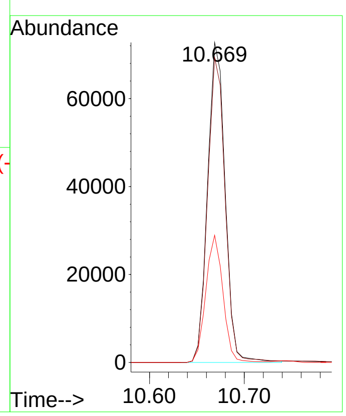




#42
2,4,6-Tribromophenol
Concen: 77.638 ng
RT: 10.669 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

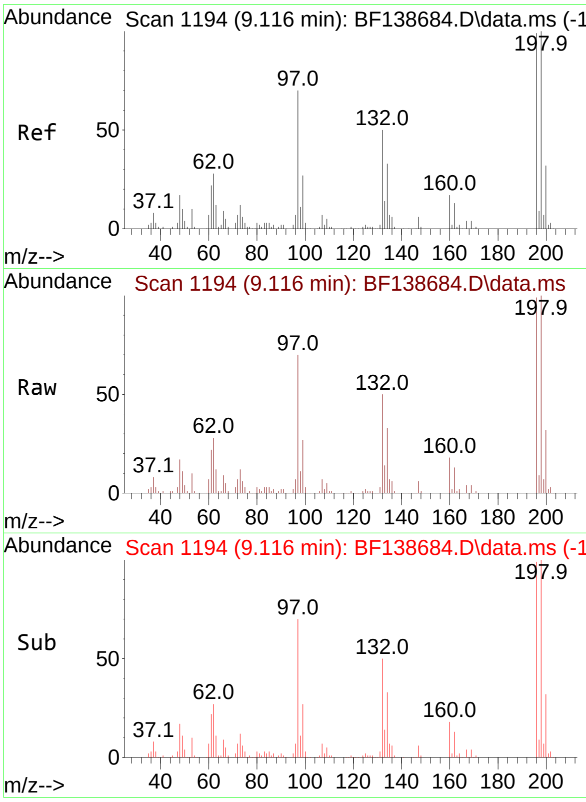
Tgt Ion:330 Resp: 93462

Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.4	114.6
141	38.9	31.1	46.7



ICAL Form

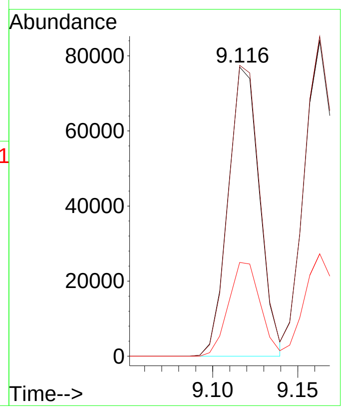
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

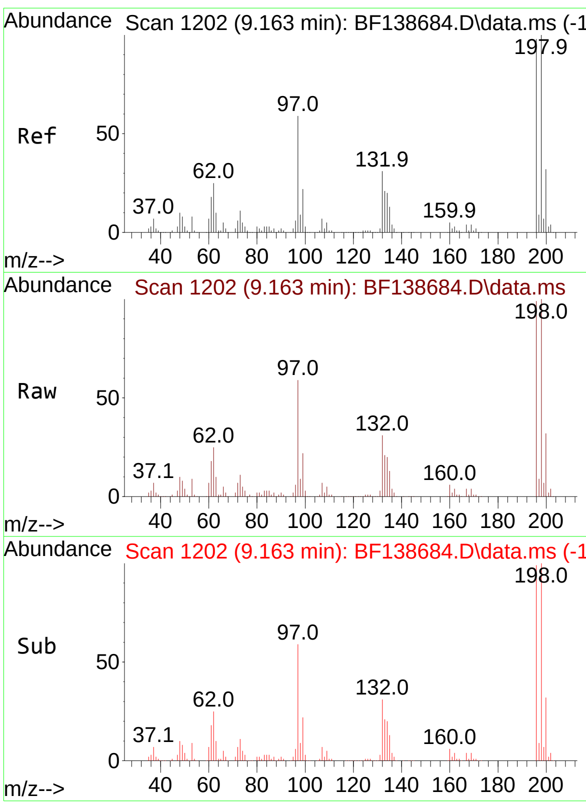


#43
2,4,6-Trichlorophenol
Concen: 39.709 ng
RT: 9.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:196 Resp: 98841

Ion	Ratio	Lower	Upper
196	100		
198	100.6	80.5	120.7
200	32.4	25.9	38.9

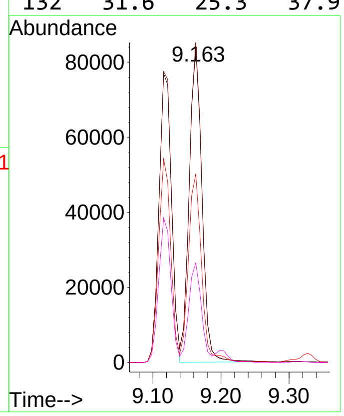




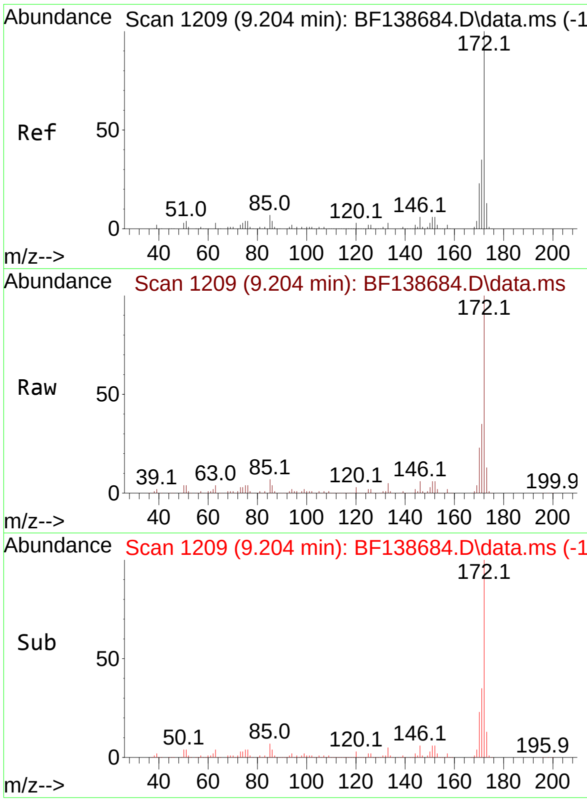
#44
2,4,5-Trichlorophenol
Concen: 39.788 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:196 Resp: 108268

Ion	Ratio	Lower	Upper
196	100		
198	101.5	81.2	121.8
97	59.7	47.8	71.6
132	31.6	25.3	37.9



ICAL Form

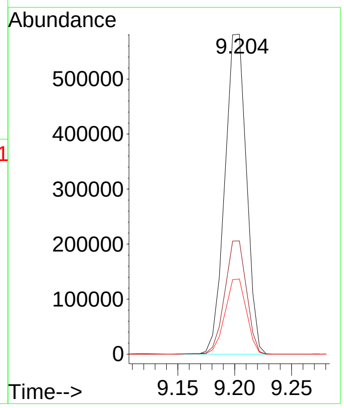


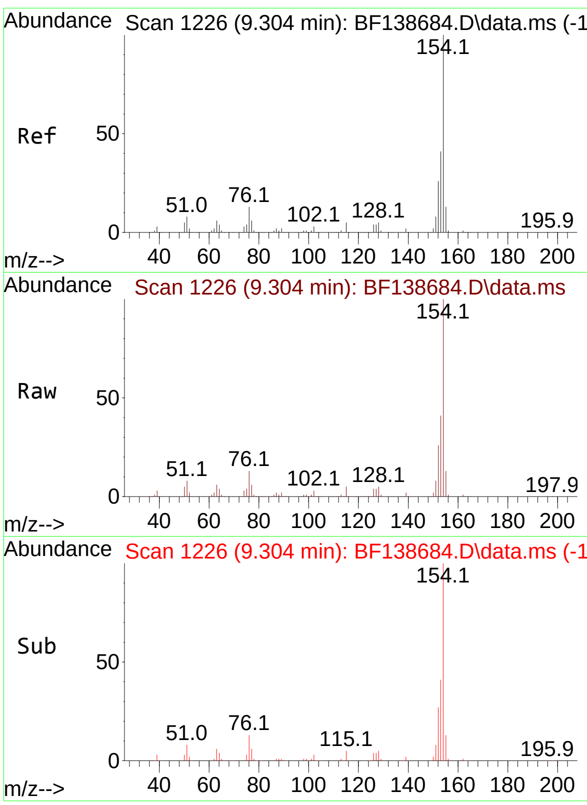
#45
2-Fluorobiphenyl
Concen: 78.480 ng
RT: 9.204 min Scan# 1209
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 767623

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.3	42.5
170	23.5	18.8	28.2

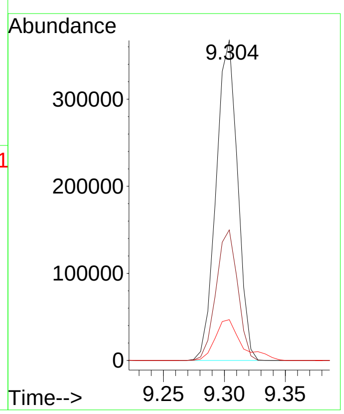




#46
1,1'-Biphenyl
Concen: 39.303 ng
RT: 9.304 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

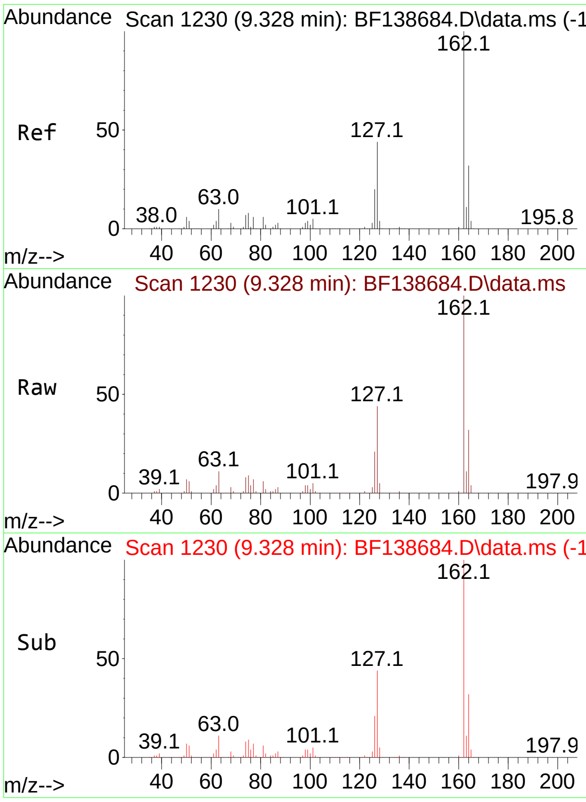
Tgt Ion:154 Resp: 452377

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.8	60.8
76	12.8	0.0	32.8



ICAL Form

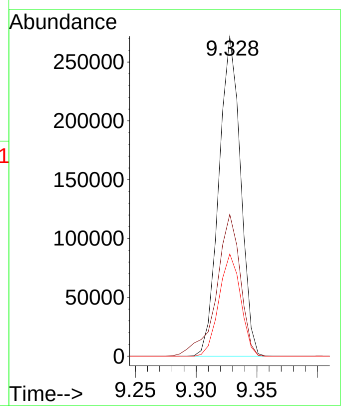
Instrument : BNA_F
ClientSampleId : SSTDICCC040

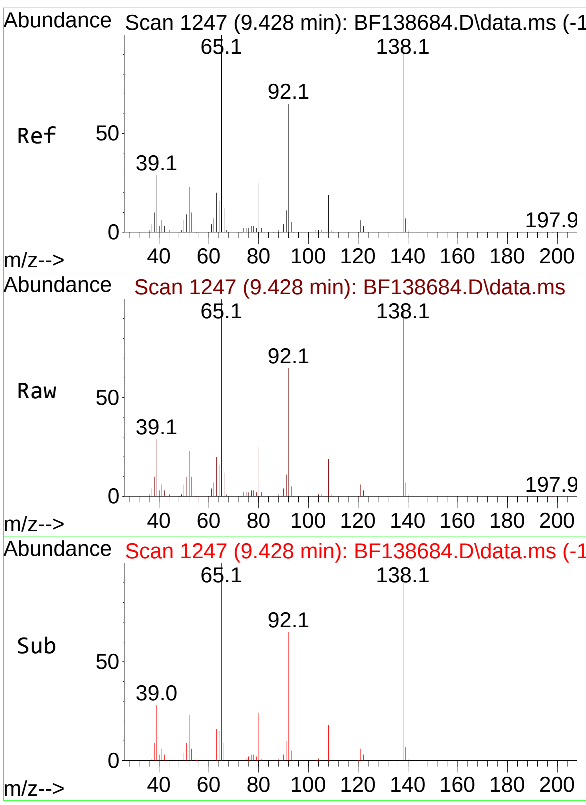


#47
2-Chloronaphthalene
Concen: 39.520 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:162 Resp: 338303

Ion	Ratio	Lower	Upper
162	100		
127	44.3	35.4	53.2
164	32.0	25.6	38.4

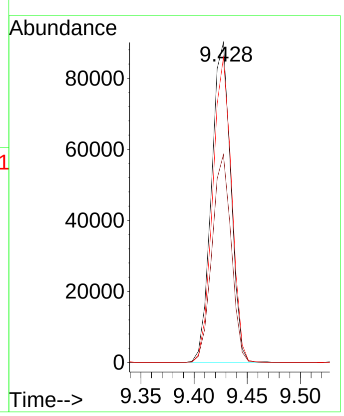




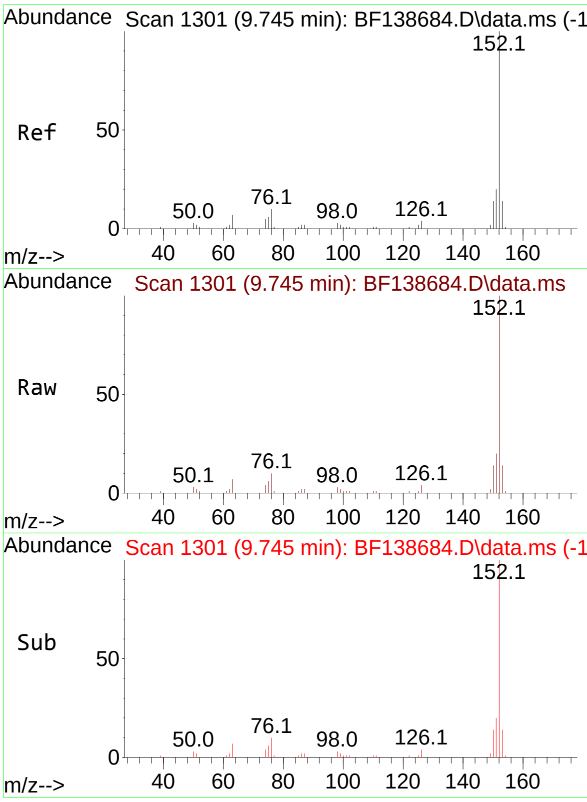
#48
2-Nitroaniline
Concen: 39.417 ng
RT: 9.428 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 65 Resp: 114390

Ion	Ratio	Lower	Upper
65	100		
92	65.0	52.0	78.0
138	95.3	76.2	114.4



ICAL Form



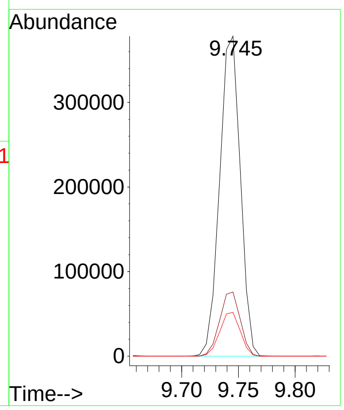
#49
Acenaphthylene
Concen: 39.633 ng
RT: 9.745 min Scan# 1

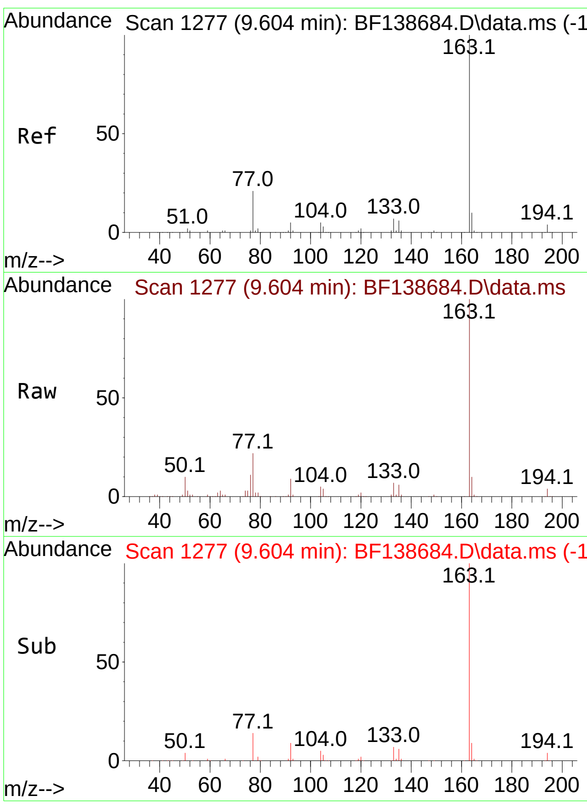
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:152 Resp: 481180

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	13.7	11.0	16.4

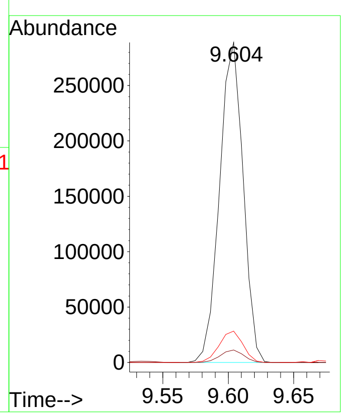




#50
Dimethylphthalate
Concen: 38.452 ng
RT: 9.604 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

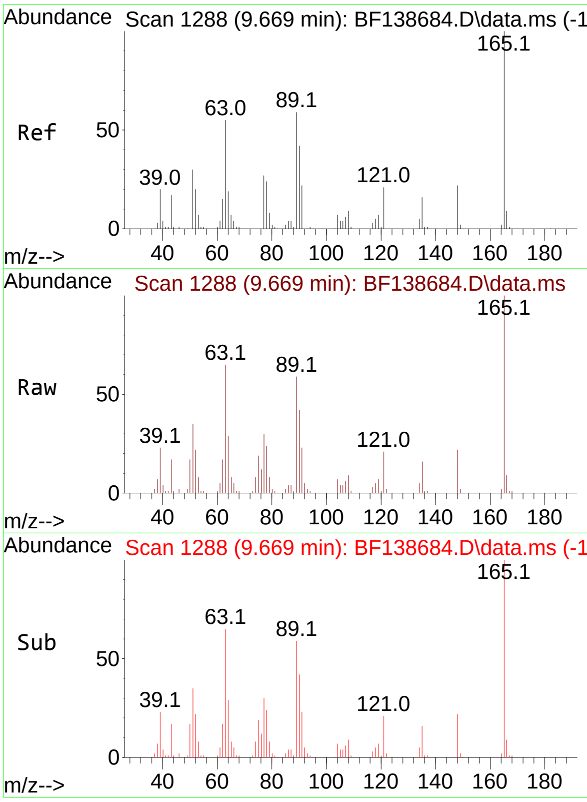
Tgt Ion:163 Resp: 361332

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	9.8	7.8	11.8



ICAL Form

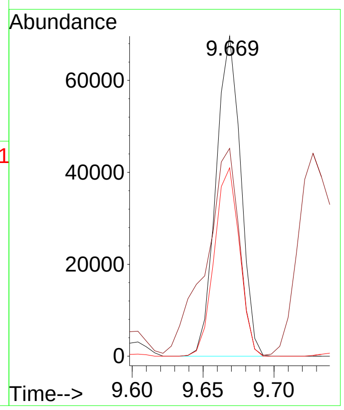
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

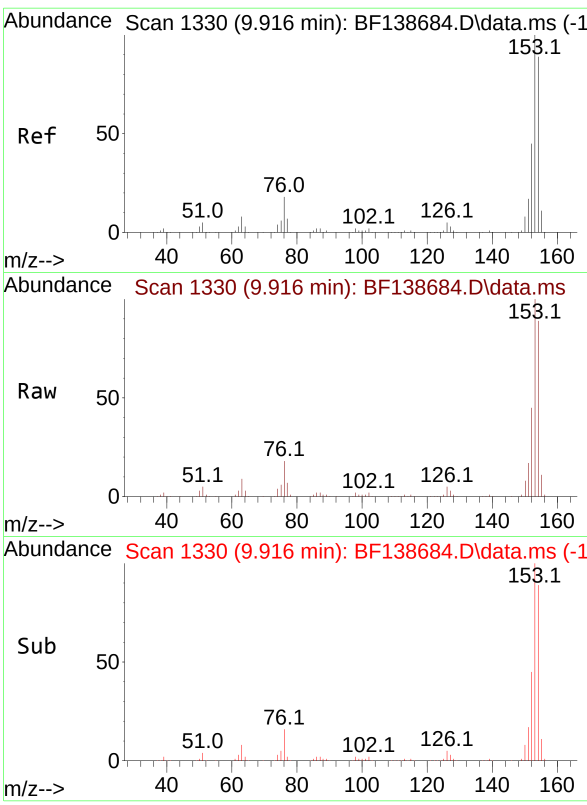


#51
2,6-Dinitrotoluene
Concen: 39.918 ng
RT: 9.669 min   Scan# 1
Delta R.T.   0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024   14:56

Tgt Ion:165 Resp: 84654

Ion	Ratio	Lower	Upper
165	100		
63	65.0	52.0	78.0
89	58.8	47.0	70.6

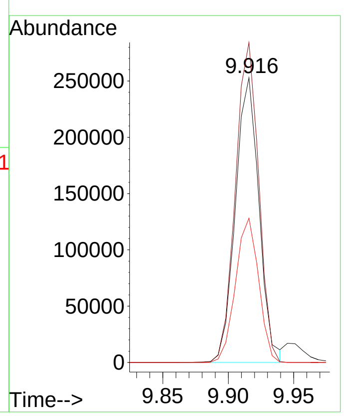




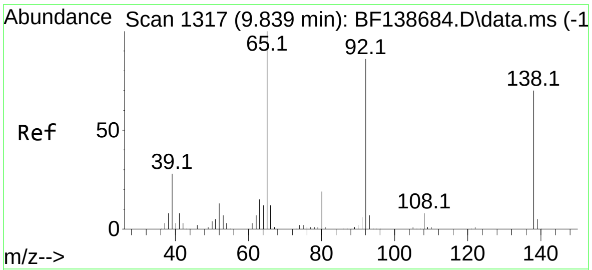
#52
Acenaphthene
Concen: 38.964 ng
RT: 9.916 min   Scan# 1330
Delta R.T.   0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024   14:56

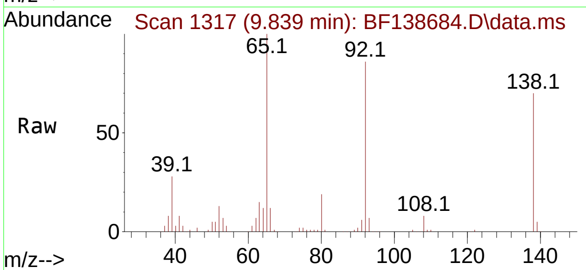
Tgt Ion:154 Resp: 318001

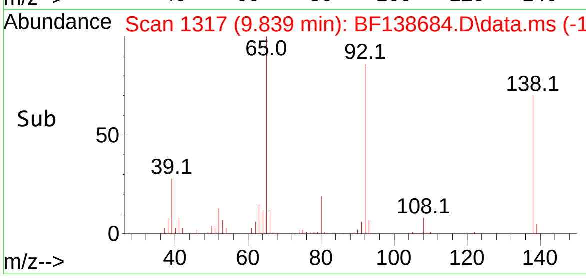
Ion	Ratio	Lower	Upper
154	100		
153	112.4	89.9	134.9
152	50.7	40.6	60.8



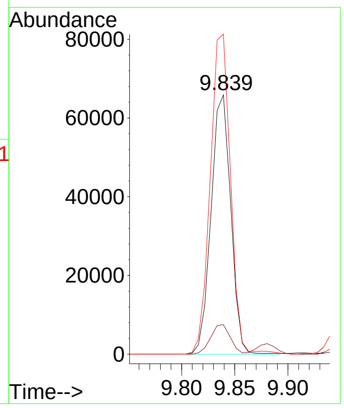
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

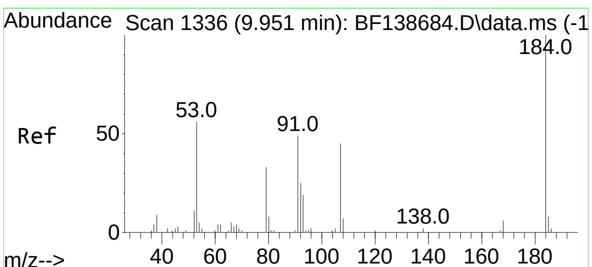


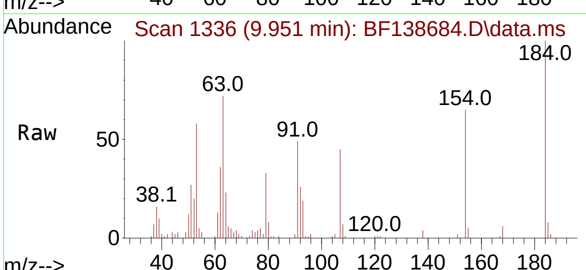


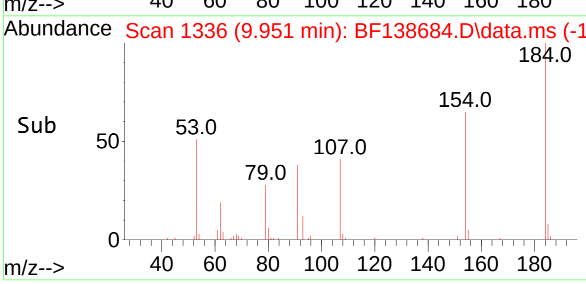



```
#53
3-Nitroaniline
Concen:   38.633 ng
RT:   9.839 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   BF138684.D
Acq: 30 Jul 2024  14:56

Tgt Ion:138 Resp:   84697
Ion  Ratio  Lower  Upper
138  100
108   11.4    9.1   13.7
 92  123.4   98.7  148.1
```

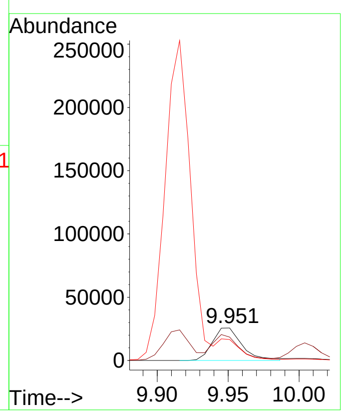




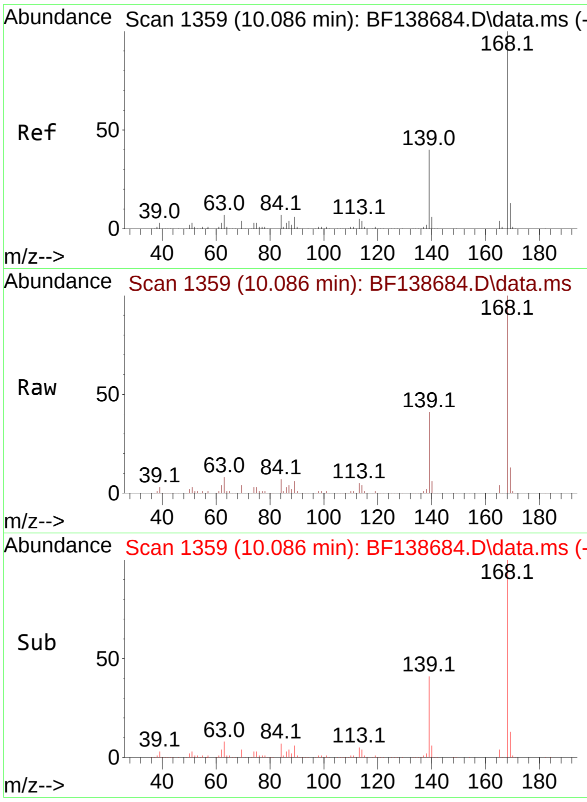





```
#54
2,4-Dinitrophenol
Concen:   38.289 ng
RT:   9.951 min  Scan# 1336
Delta R.T.  0.000 min
Lab File:   BF138684.D
Acq: 30 Jul 2024  14:56

Tgt Ion:184 Resp:   37379
Ion  Ratio  Lower  Upper
184  100
 63   71.9   57.5   86.3
154   64.6   51.7   77.5
```



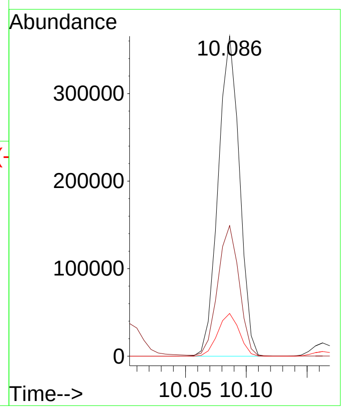
Instrument : BNA_F
ClientSampleId : SSTDICCC040

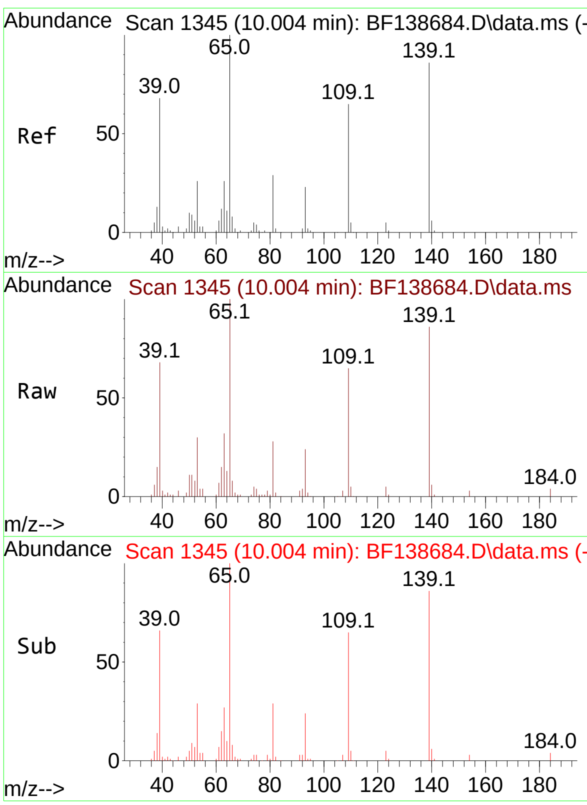


#55
Dibenzofuran
Concen: 38.648 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:168 Resp: 445244

Ion	Ratio	Lower	Upper
168	100		
139	40.8	32.6	49.0
169	13.4	10.7	16.1

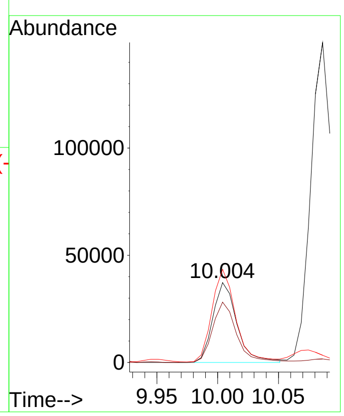




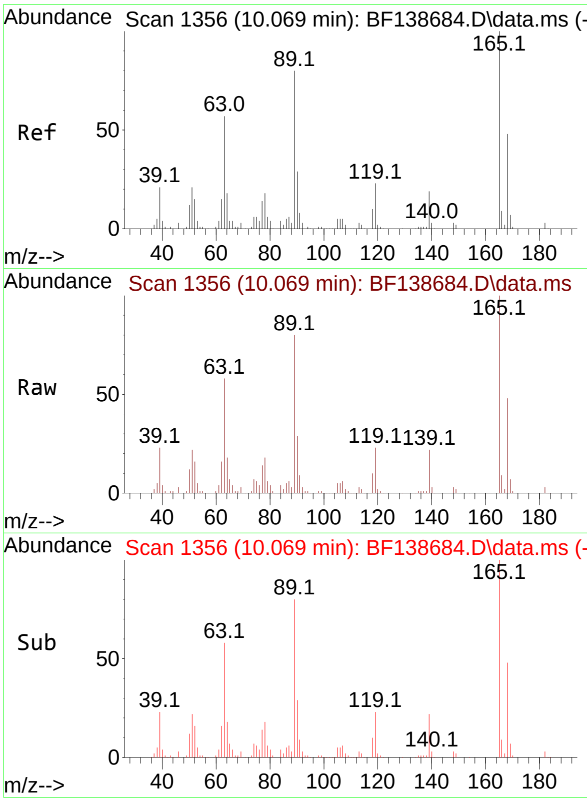
#56
4-Nitrophenol
Concen: 39.032 ng
RT: 10.004 min Scan# 1345
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:139 Resp: 51459

Ion	Ratio	Lower	Upper
139	100		
109	75.5	55.5	95.5
65	116.7	96.7	136.7



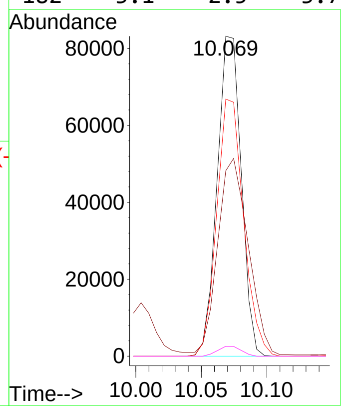
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

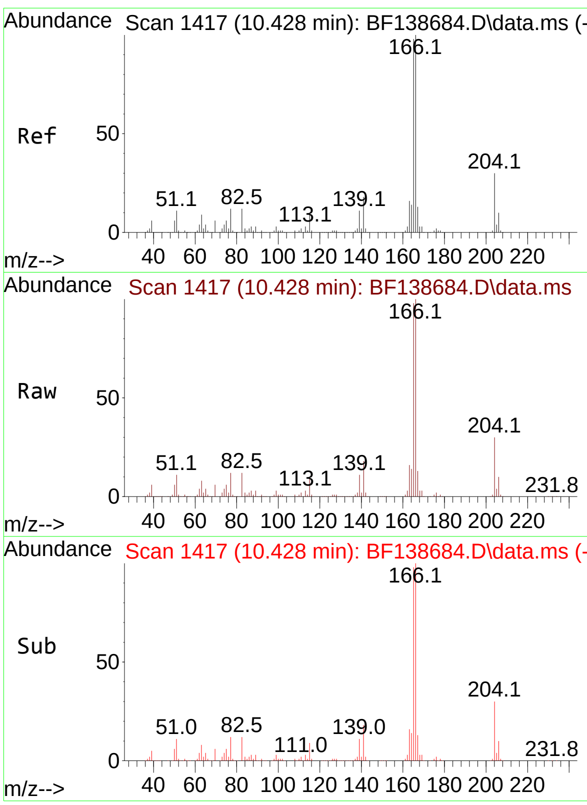


#57
2,4-Dinitrotoluene
Concen: 39.341 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:165 Resp: 106444

Ion	Ratio	Lower	Upper
165	100		
63	57.9	46.3	69.5
89	80.3	64.2	96.4
182	3.1	2.5	3.7

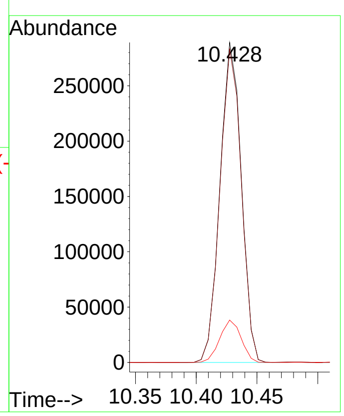


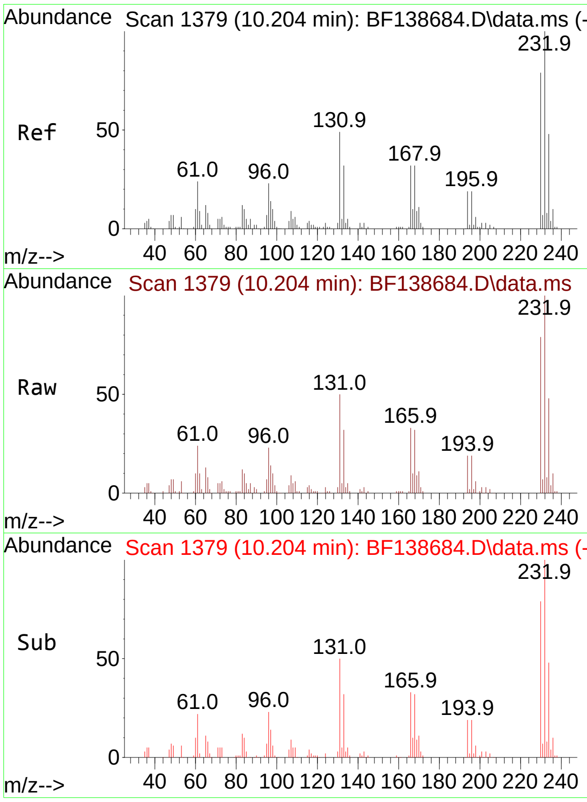


#58
Fluorene
Concen: 38.634 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:166 Resp: 354441

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.4	117.6
167	13.3	10.6	16.0



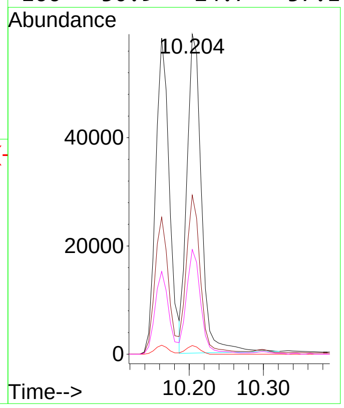


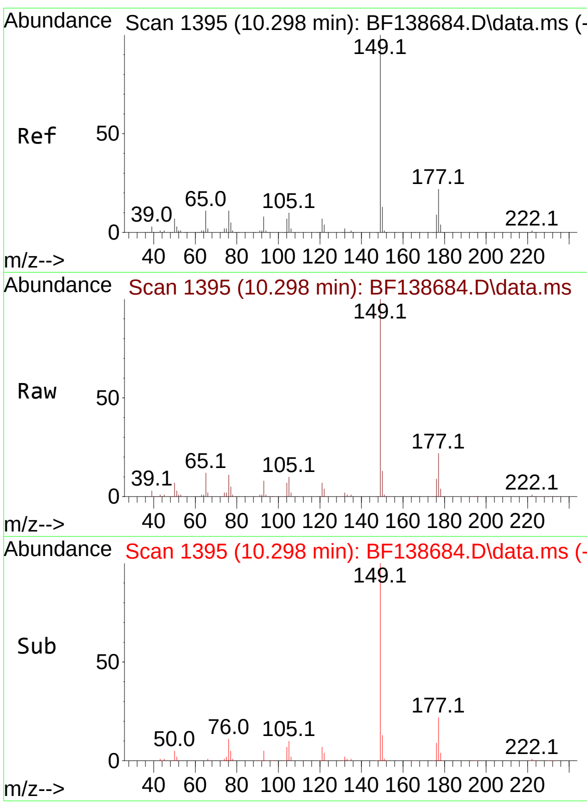
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.673 ng
RT: 10.204 min Scan# 1379
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 80452

Ion	Ratio	Lower	Upper
232	100		
131	46.2	37.0	55.4
130	2.5	2.0	3.0
166	30.9	24.7	37.1

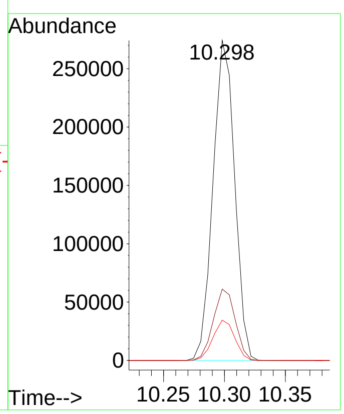




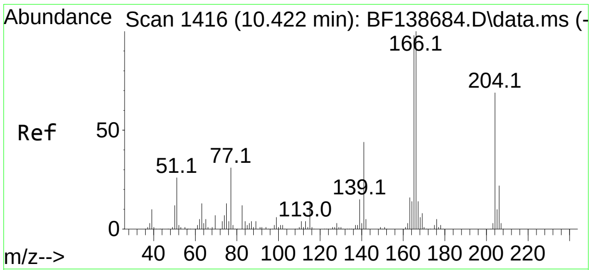
#60
Diethylphthalate
Concen: 38.114 ng
RT: 10.298 min Scan# 1395
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

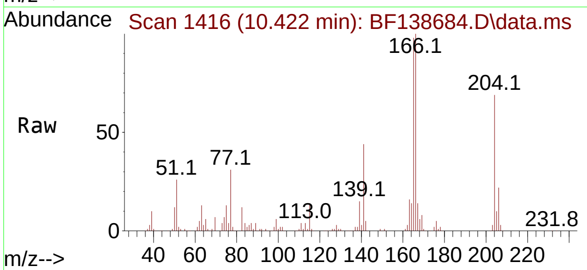
Tgt Ion:149 Resp: 339596

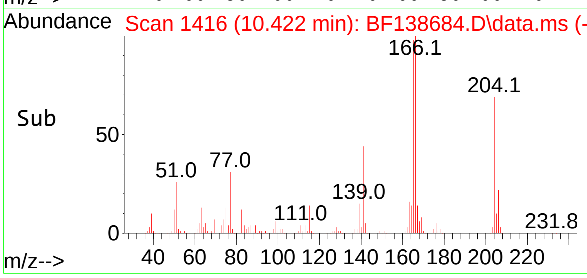
Ion	Ratio	Lower	Upper
149	100		
177	22.3	17.8	26.8
150	12.6	10.1	15.1



Instrument : BNA_F
ClientSampleId : SSTDICCC040



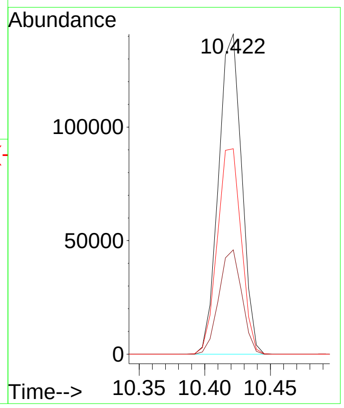


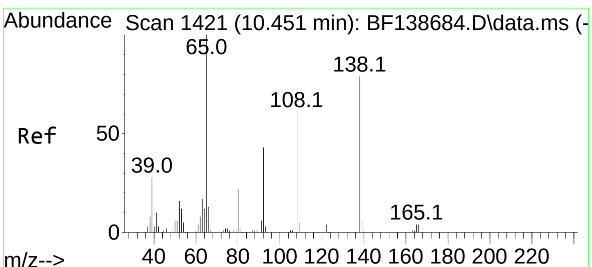


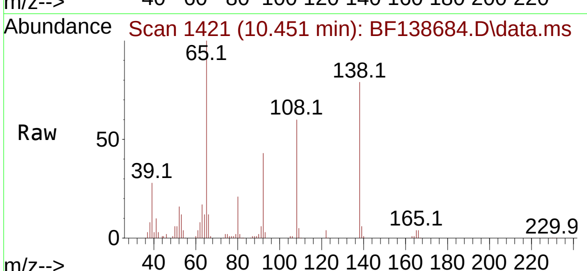
#61
4-Chlorophenyl-phenylether
Concen: 38.346 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

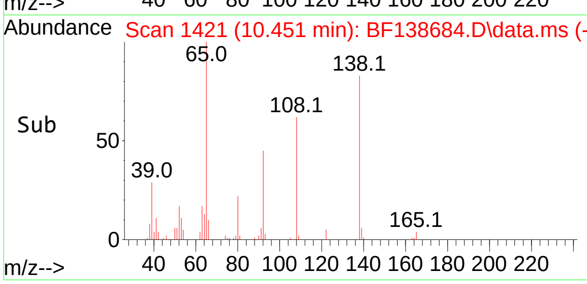
Tgt Ion:204 Resp: 173020

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.1	39.1
141	64.2	51.4	77.0





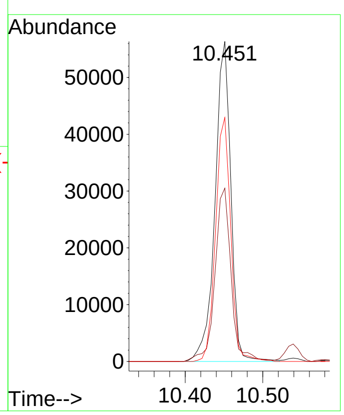




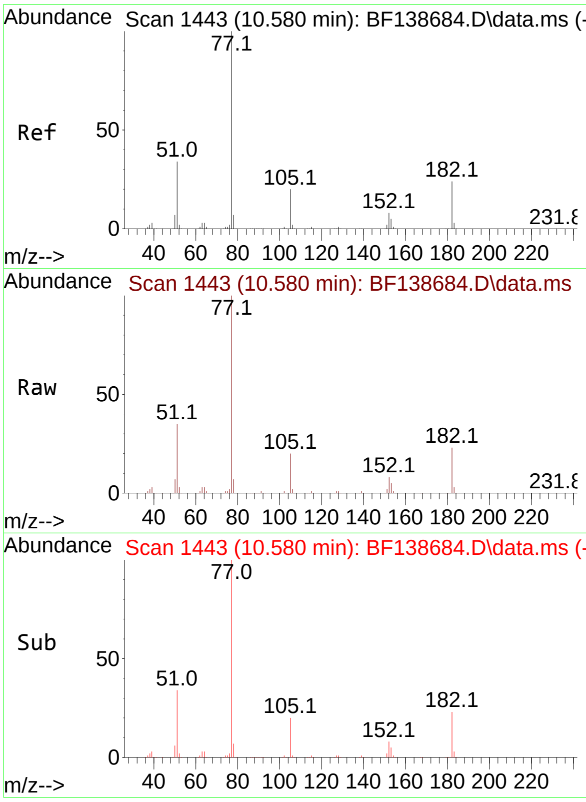
#62
4-Nitroaniline
Concen: 38.360 ng
RT: 10.451 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:138 Resp: 79919

Ion	Ratio	Lower	Upper
138	100		
92	54.2	34.2	74.2
108	76.2	56.2	96.2



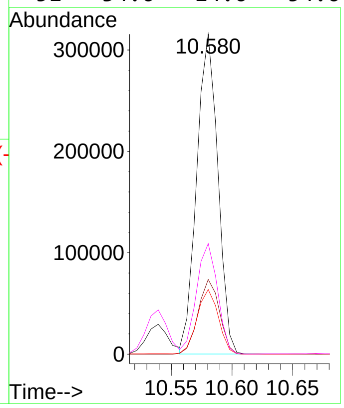
Instrument : BNA_F
ClientSampleId : SSTDICCC040

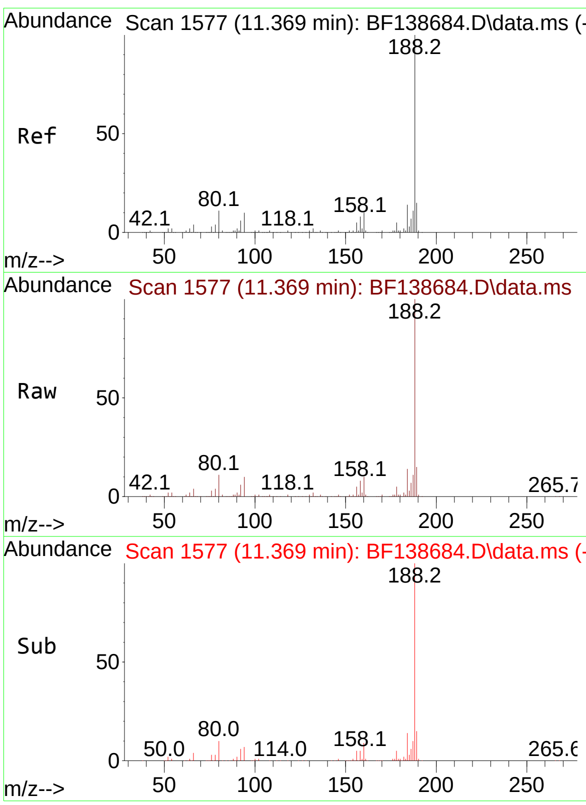


#63
Azobenzene
Concen: 38.662 ng
RT: 10.580 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 77 Resp: 382056

Ion	Ratio	Lower	Upper
77	100		
182	23.4	3.4	43.4
105	20.2	0.2	40.2
51	34.6	14.6	54.6

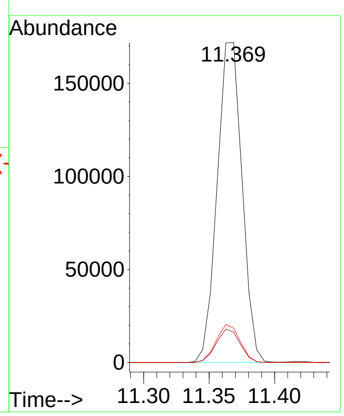




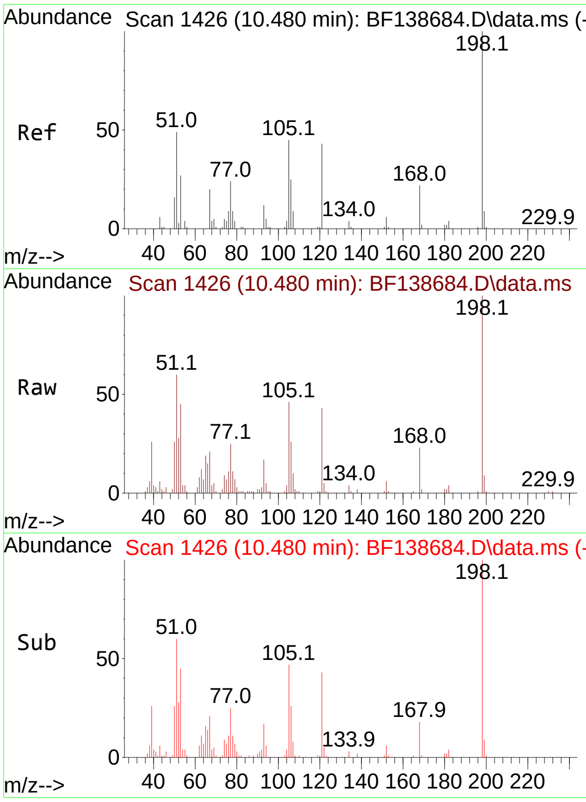
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:188 Resp: 227513

Ion	Ratio	Lower	Upper
188	100		
94	9.5	7.6	11.4
80	10.7	8.6	12.8



ICAL Form

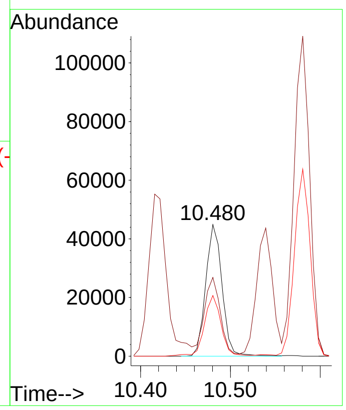


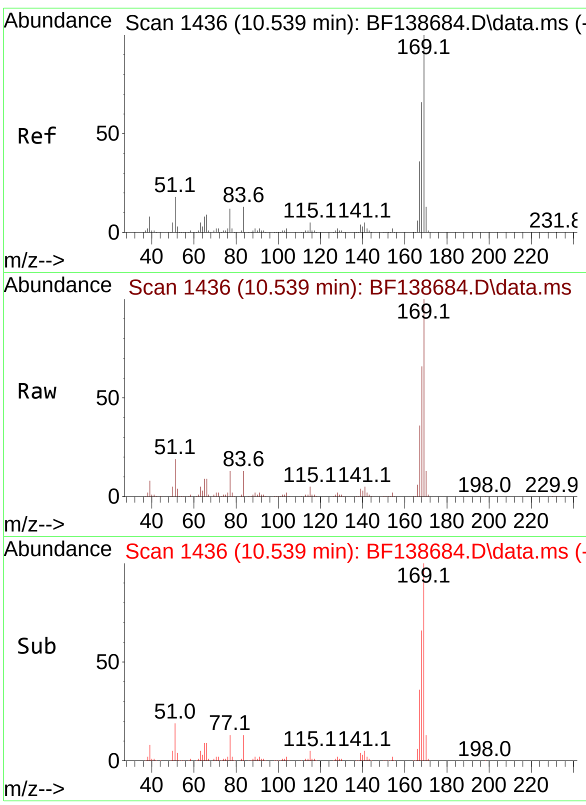
#65
4,6-Dinitro-2-methylphenol
Concen: 40.852 ng
RT: 10.480 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 56704

Ion	Ratio	Lower	Upper
198	100		
51	59.9	39.9	79.9
105	46.1	26.1	66.1

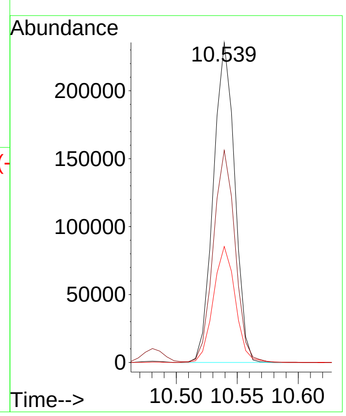


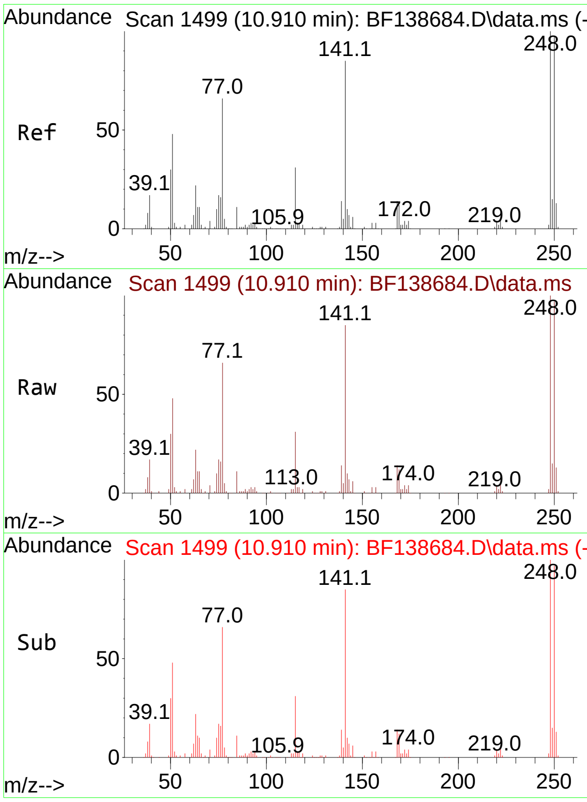


#66
n-Nitrosodiphenylamine
Concen: 40.397 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:169 Resp: 287289

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.0	79.6
167	36.3	29.0	43.6



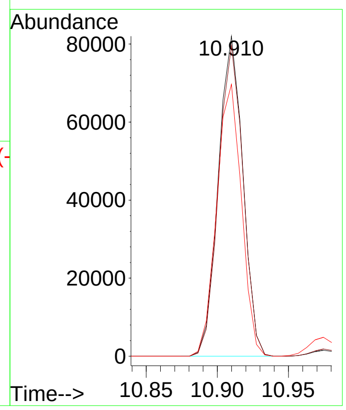


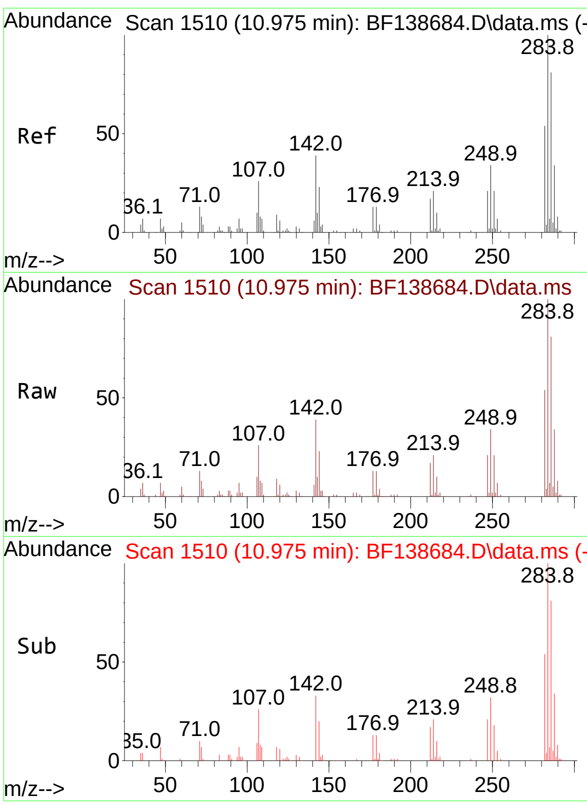
#67
4-Bromophenyl-phenylether
Concen: 40.031 ng
RT: 10.910 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 98606

Ion	Ratio	Lower	Upper
248	100		
250	97.1	77.7	116.5
141	85.0	68.0	102.0

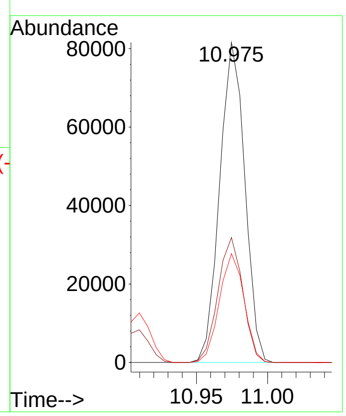




#68
Hexachlorobenzene
Concen: 39.354 ng
RT: 10.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

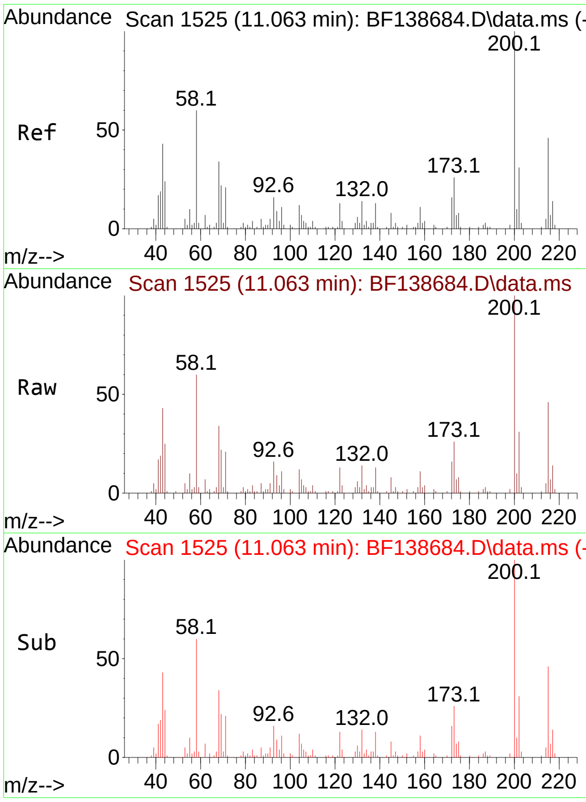
Tgt Ion:284 Resp: 100089

Ion	Ratio	Lower	Upper
284	100		
142	39.1	31.3	46.9
249	34.0	27.2	40.8

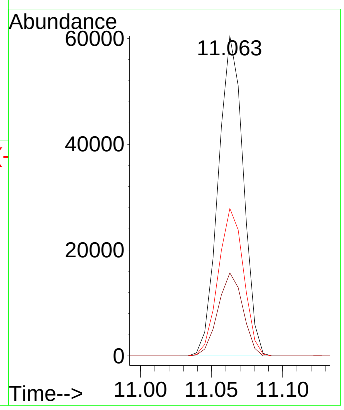


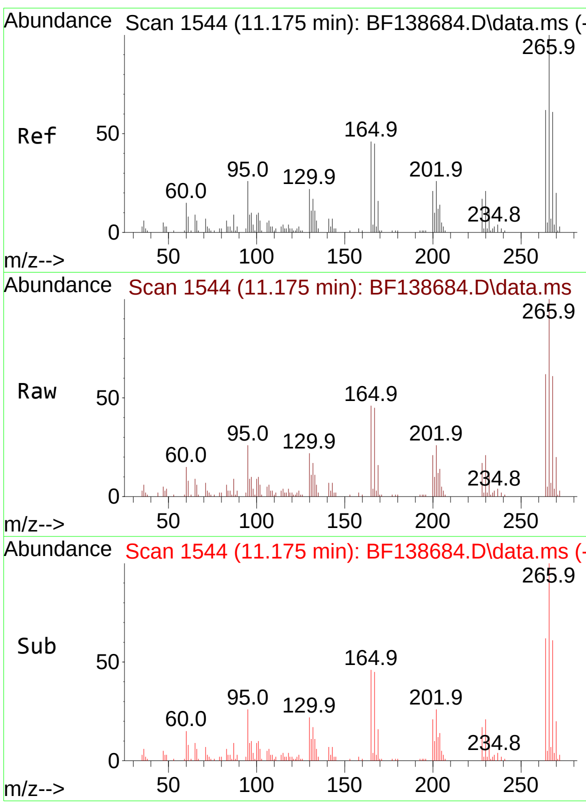
ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

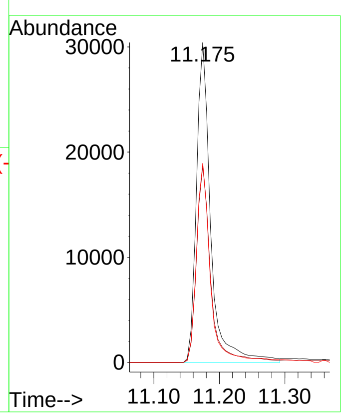



```
#69
Atrazine
Concen:   40.295 ng
RT:  11.063 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   BF138684.D
Acq: 30 Jul 2024  14:56

Tgt Ion:200 Resp:   73933
Ion  Ratio  Lower  Upper
200  100
173   26.0    6.0   46.0
215   46.1   26.1   66.1
```

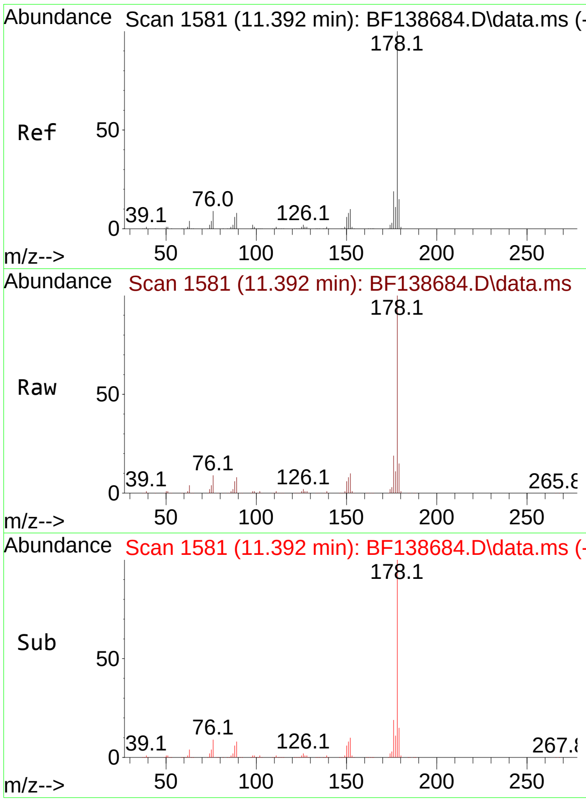





```
#70
Pentachlorophenol
Concen:   40.533 ng
RT:  11.175 min  Scan# 1544
Delta R.T.  -0.000 min
Lab File:   BF138684.D
Acq: 30 Jul 2024  14:56

Tgt Ion:266 Resp:   46467
Ion  Ratio  Lower  Upper
266  100
268   61.5   49.2   73.8
264   62.2   49.8   74.6
```



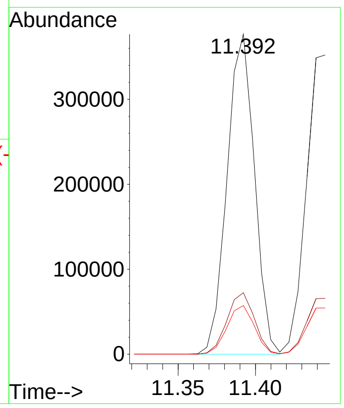
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

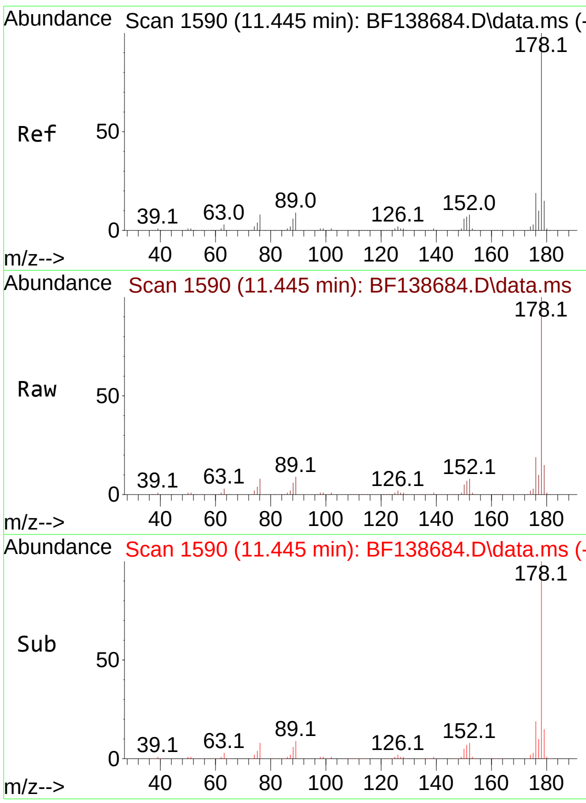


#71
Phenanthrene
Concen: 39.658 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:178 Resp: 464600

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.2	12.2	18.2

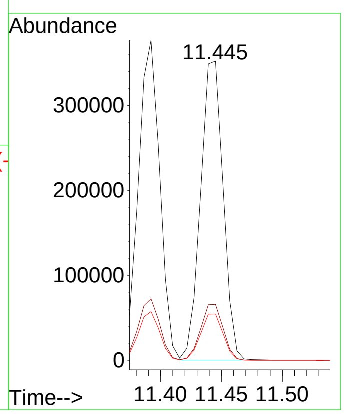




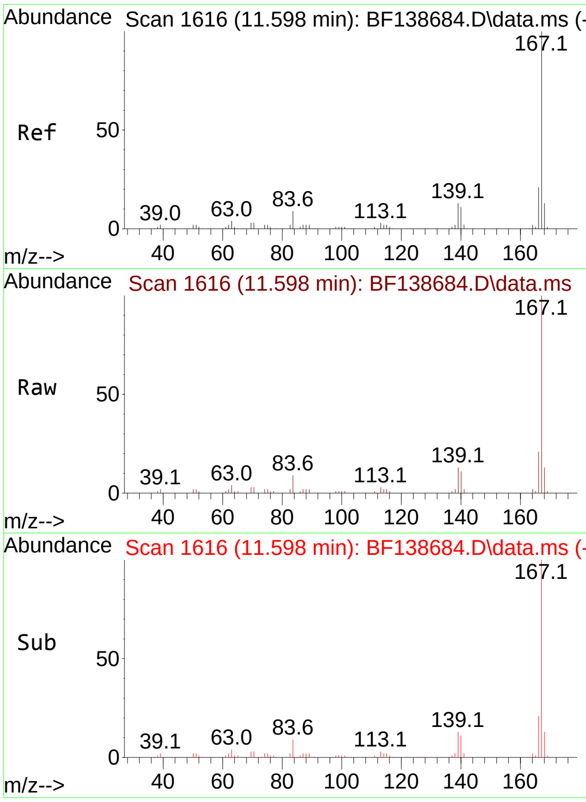
#72
Anthracene
Concen: 39.526 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:178 Resp: 456164

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.5	12.4	18.6



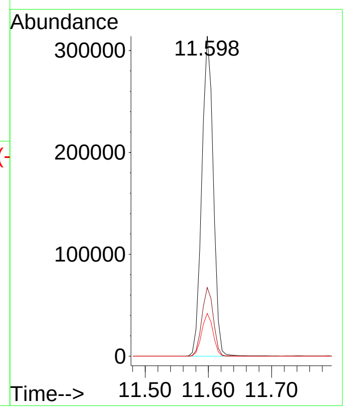
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

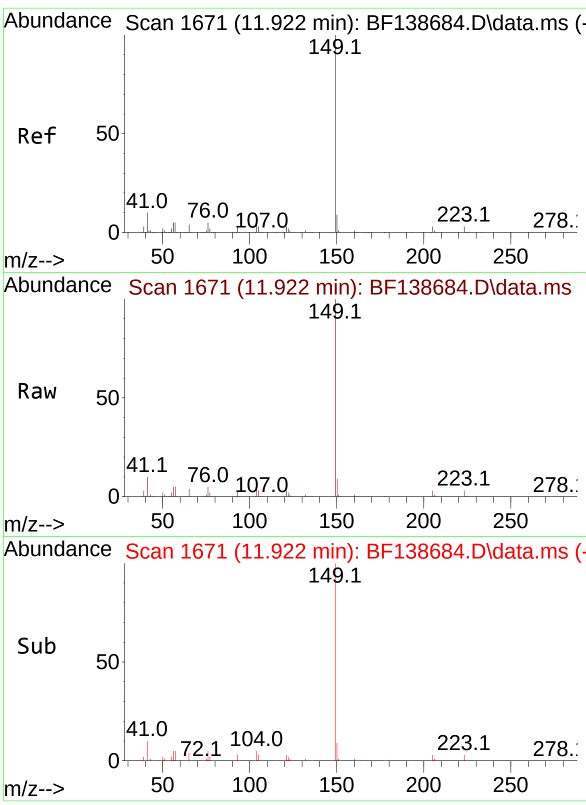


#73
Carbazole
Concen: 39.739 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:167 Resp: 395675

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.2	25.8
139	13.3	10.6	16.0

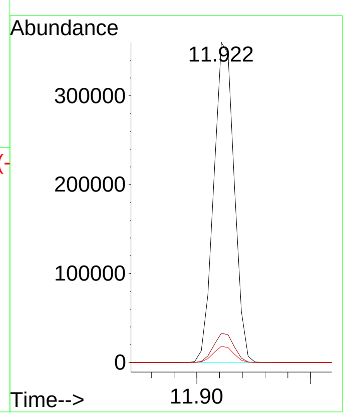




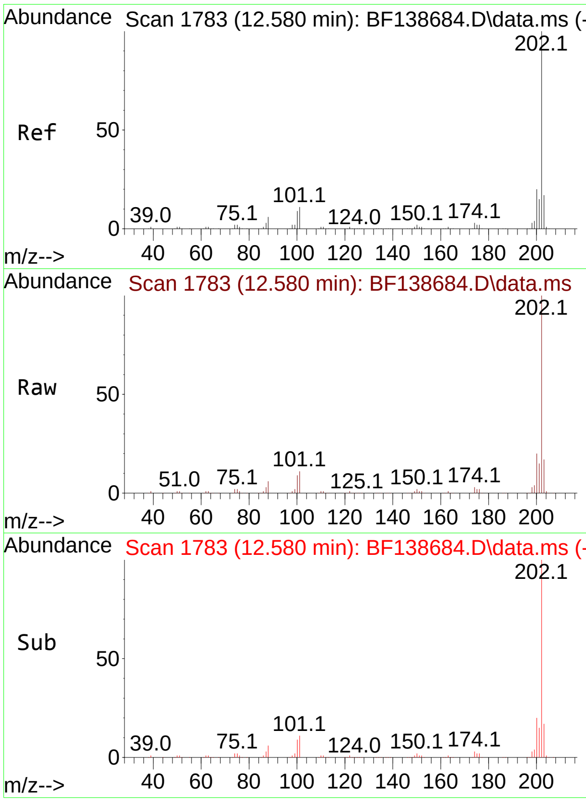
#74
Di-n-butylphthalate
Concen: 40.293 ng
RT: 11.922 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:149 Resp: 451011

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.1	4.1	6.1



ICAL Form

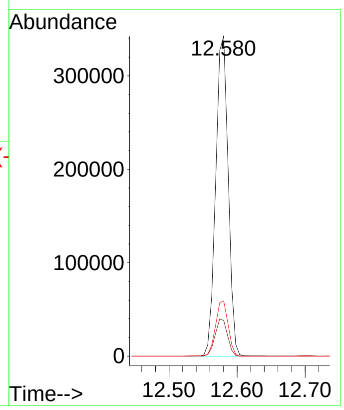


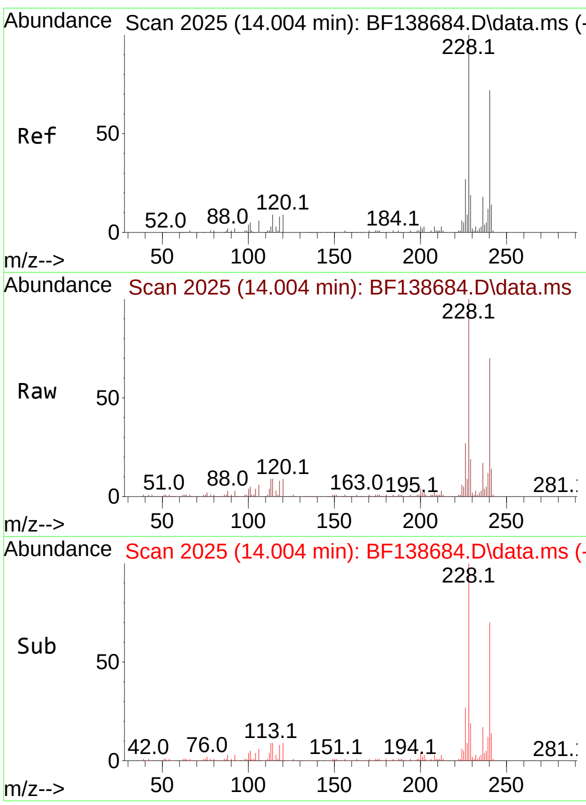
#75
Fluoranthene
Concen: 40.144 ng
RT: 12.580 min   Scan# 1
Delta R.T.   0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024   14:56

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 439041

Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	31.2
203	17.3	0.0	37.3

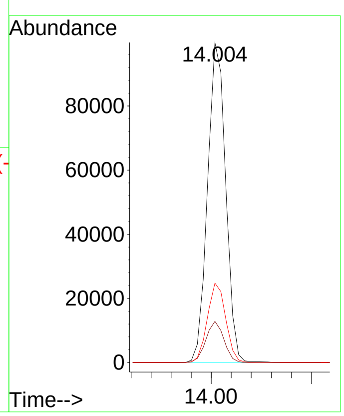




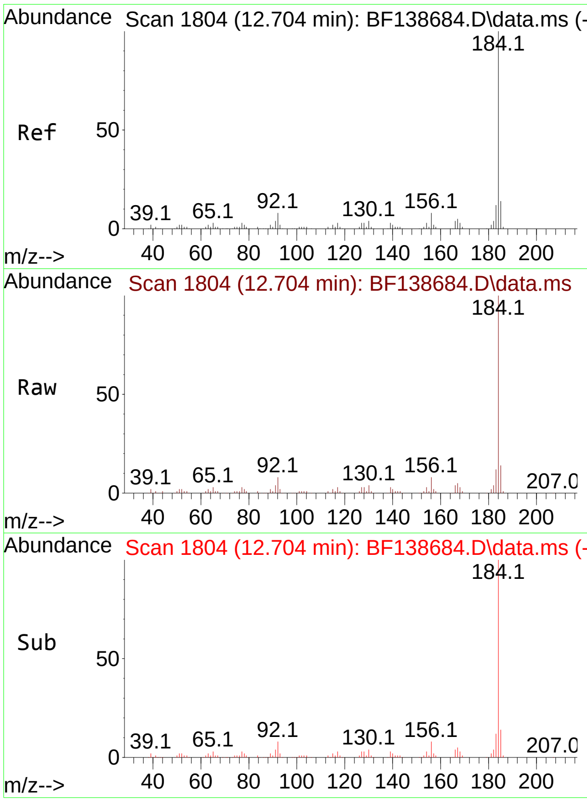
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min   Scan# 2025
Delta R.T.   0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024   14:56

Tgt Ion:240 Resp: 125928

Ion	Ratio	Lower	Upper
240	100		
120	12.8	10.2	15.4
236	24.8	19.8	29.8



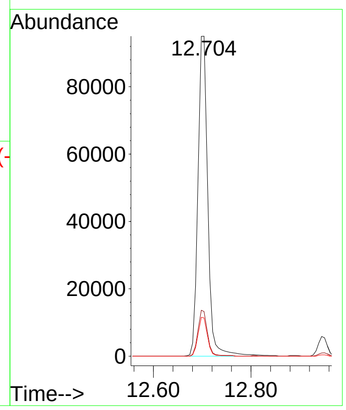
Instrument : BNA_F
ClientSampleId : SSTDICCC040

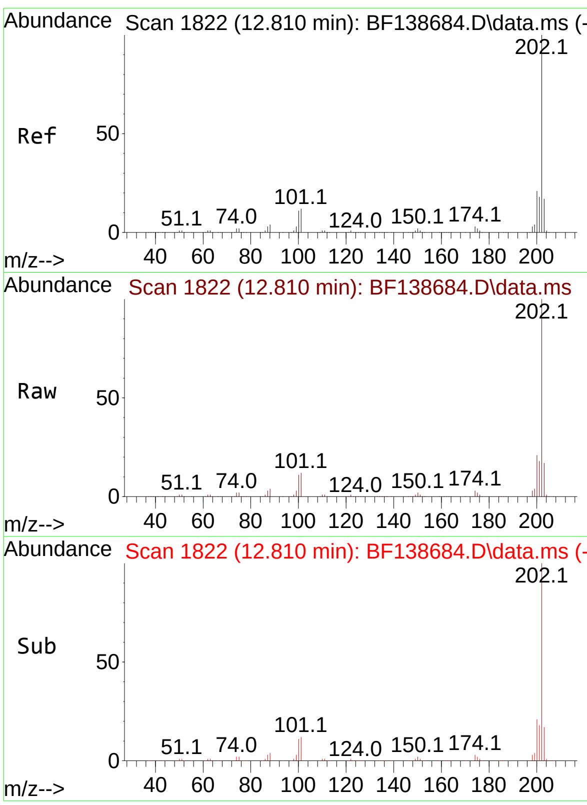


#77
Benzidine
Concen: 44.725 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:184 Resp: 134710

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.1	16.7
183	12.0	9.6	14.4

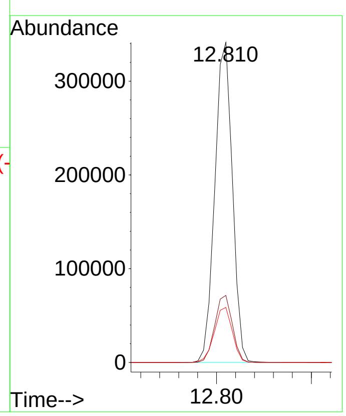




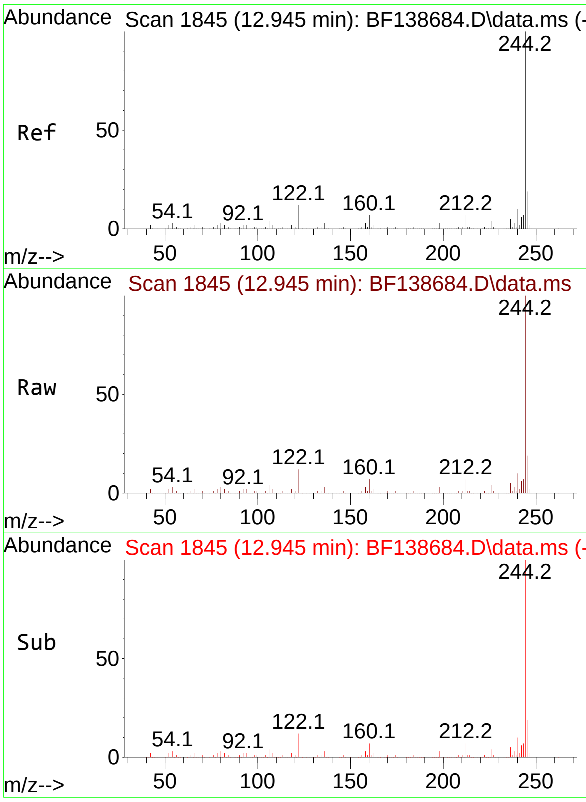
#78
Pyrene
Concen: 37.167 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:202 Resp: 440674

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.2	13.8	20.6



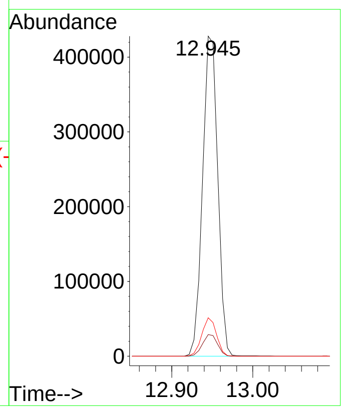
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

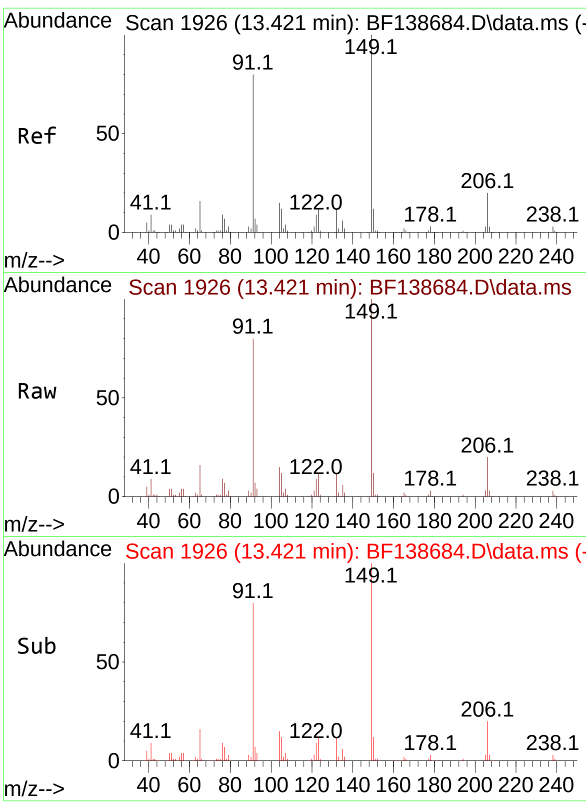


#79
Terphenyl-d14
Concen: 74.045 ng
RT: 12.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:244 Resp: 556920

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	12.0	9.6	14.4

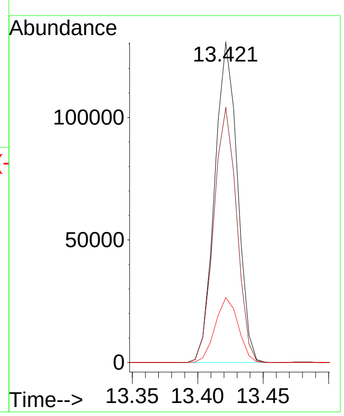




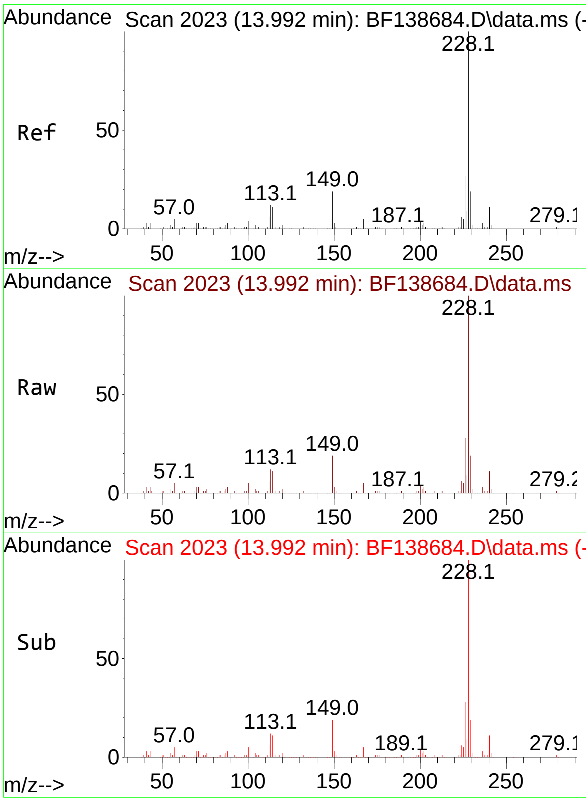
#80
Butylbenzylphthalate
Concen: 41.637 ng
RT: 13.421 min Scan# 1926
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:149 Resp: 158088

Ion	Ratio	Lower	Upper
149	100		
91	79.6	63.7	95.5
206	20.2	16.2	24.2

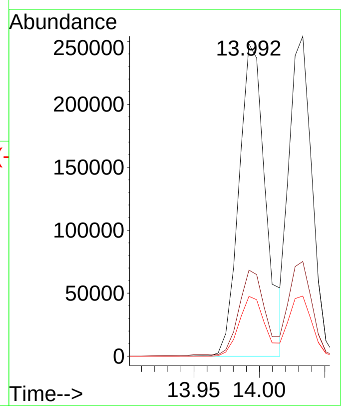


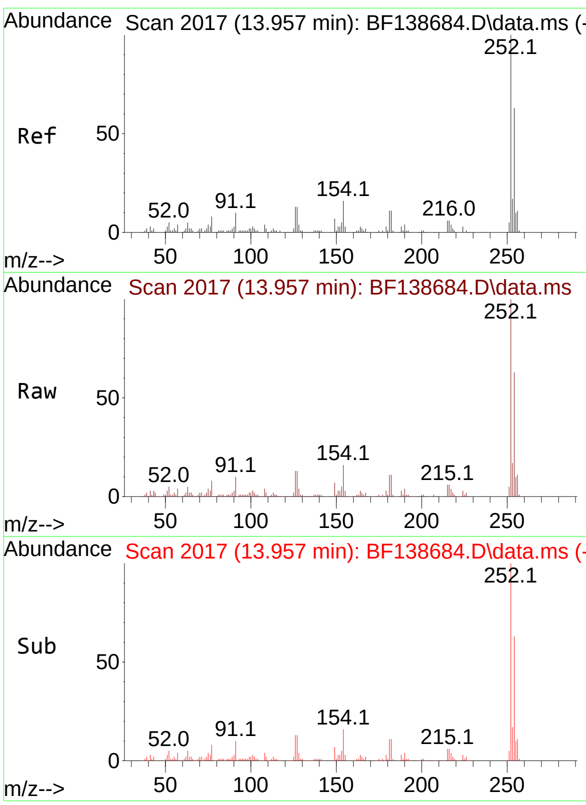
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040



#81
Benzo(a)anthracene
Concen: 40.528 ng
RT: 13.992 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

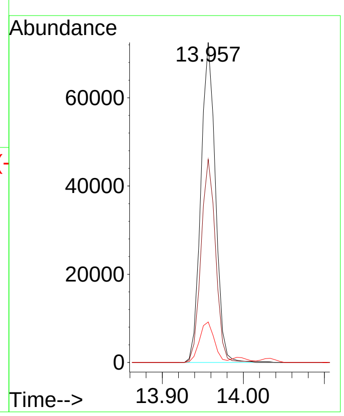
Tgt Ion:228 Resp: 351448
Ion Ratio Lower Upper
228 100
226 27.6 22.1 33.1
229 19.2 15.4 23.0



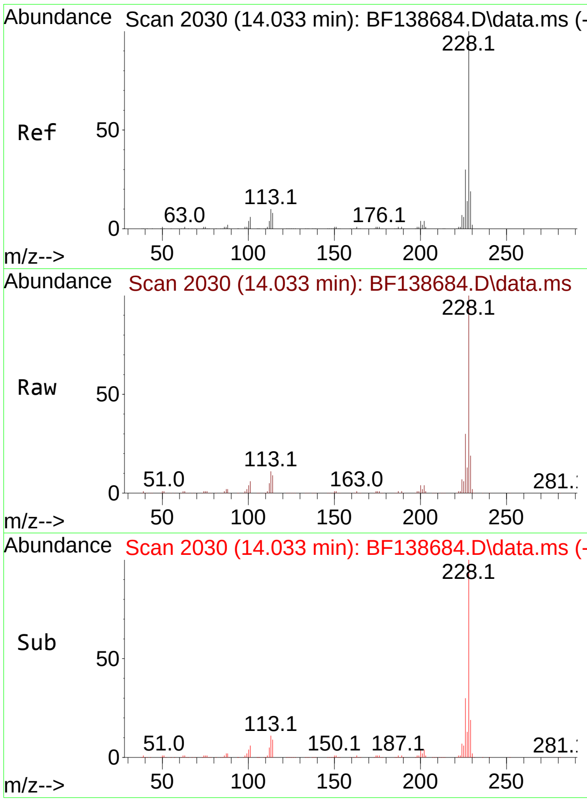


#82
3,3'-Dichlorobenzidine
Concen: 40.825 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:252 Resp: 90595
Ion Ratio Lower Upper
252 100
254 63.5 50.8 76.2
126 12.7 10.2 15.2



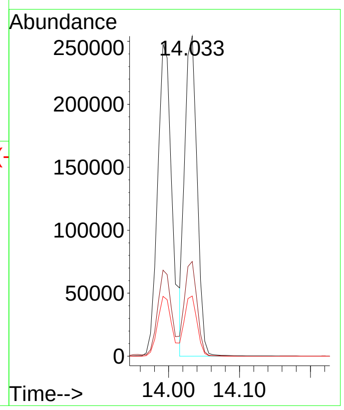
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

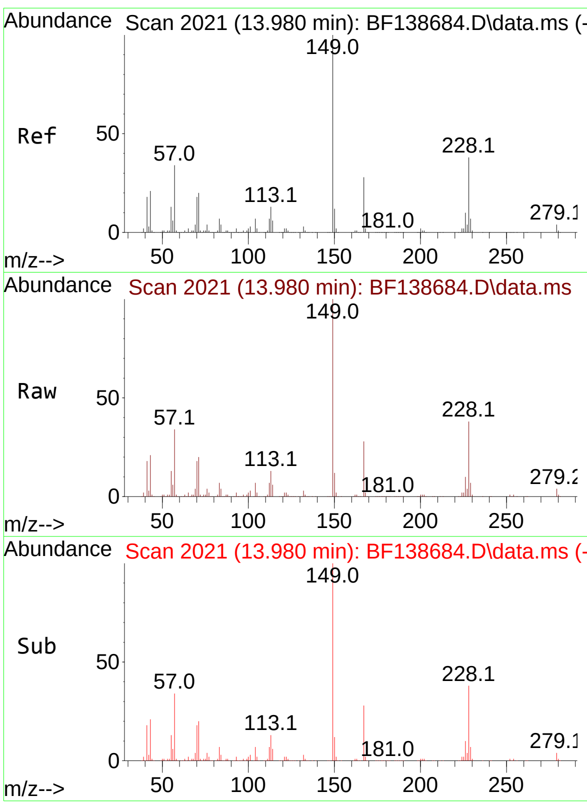


#83
Chrysene
Concen: 39.343 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:228 Resp: 307799

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.7	35.5
229	18.8	15.0	22.6

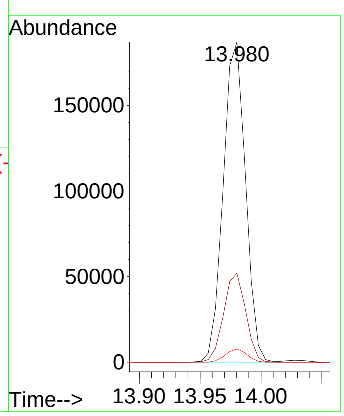




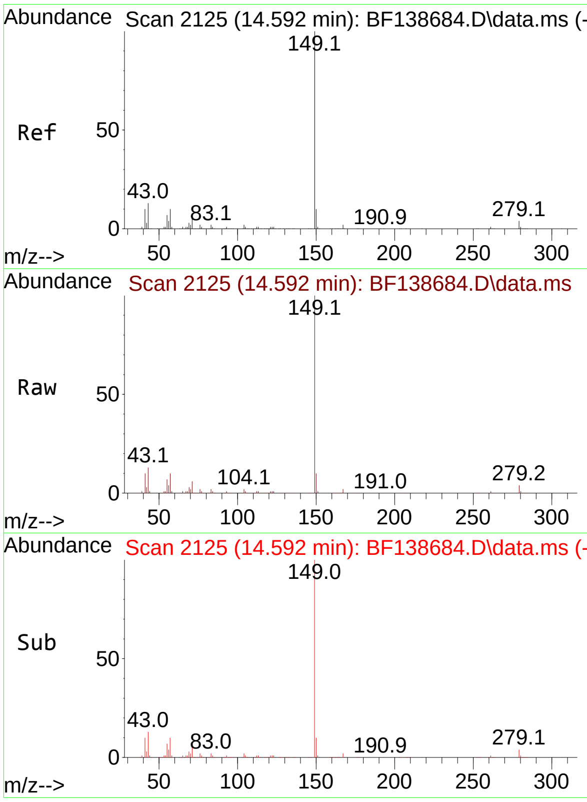
#84
Bis(2-ethylhexyl)phthalate
Concen: 42.951 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:149 Resp: 238798

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	4.2	3.4	5.0



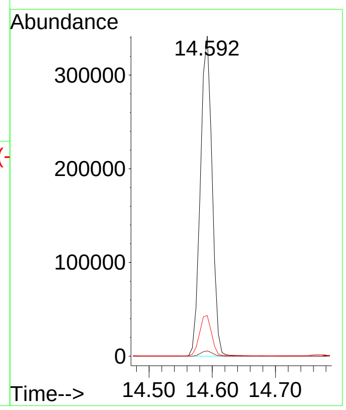
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

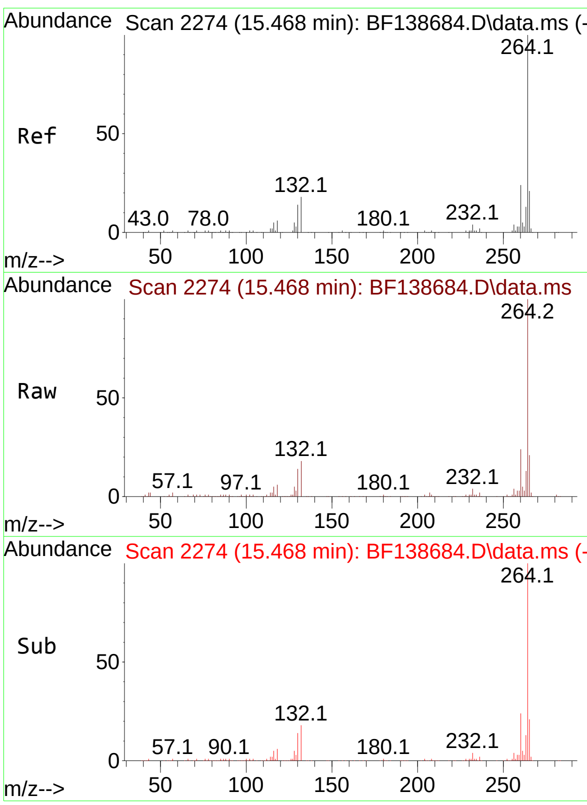


#85
Di-n-octyl phthalate
Concen: 42.690 ng
RT: 14.592 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:149 Resp: 439133

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.4	2.0
43	13.0	10.4	15.6

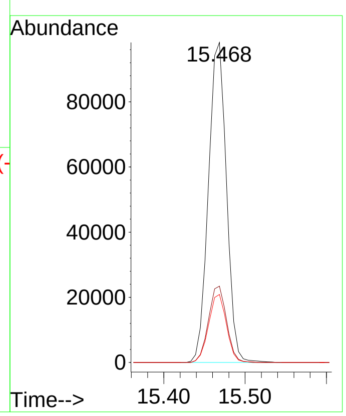




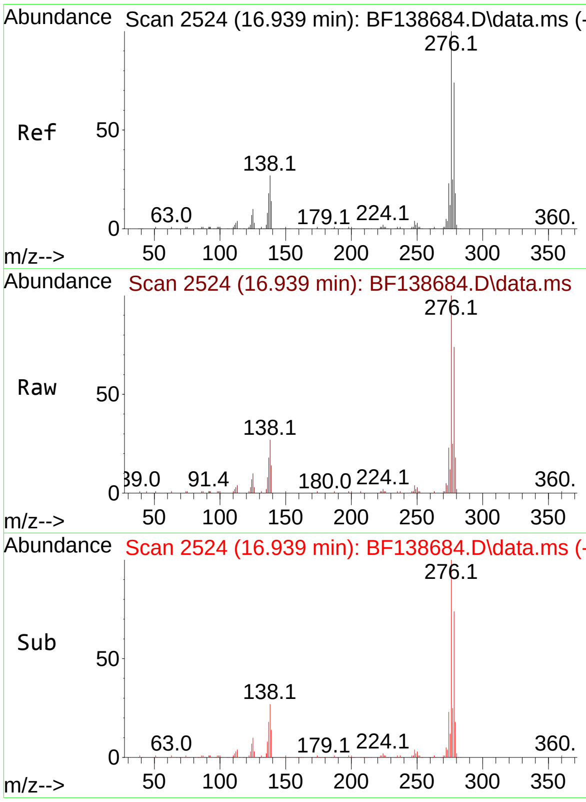
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:264 Resp: 151531

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.0	28.6
265	21.3	17.0	25.6



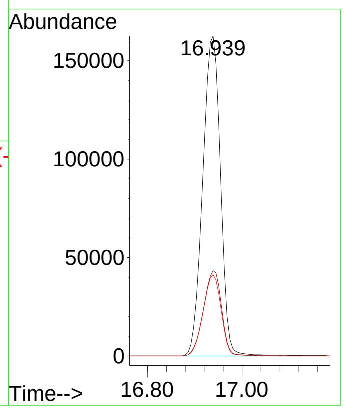
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

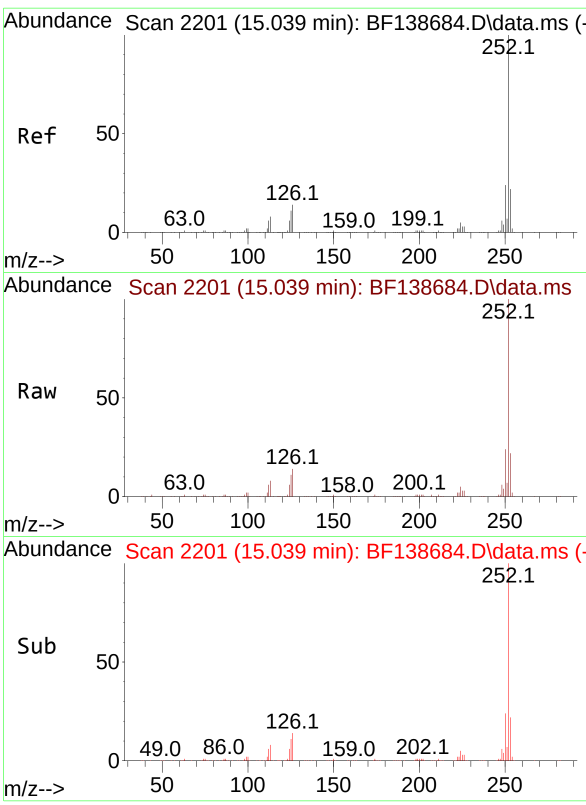


#87
Indeno(1,2,3-cd)pyrene
Concen: 38.929 ng
RT: 16.939 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:276 Resp: 422742

Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.8	32.8
277	25.7	20.6	30.8

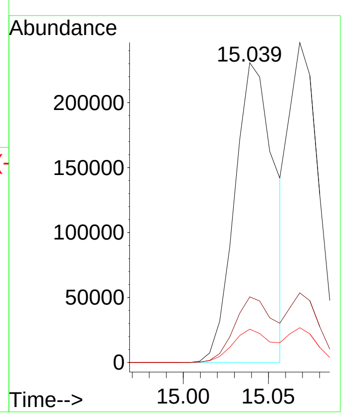




#88
Benzo(b)fluoranthene
Concen: 39.653 ng
RT: 15.039 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

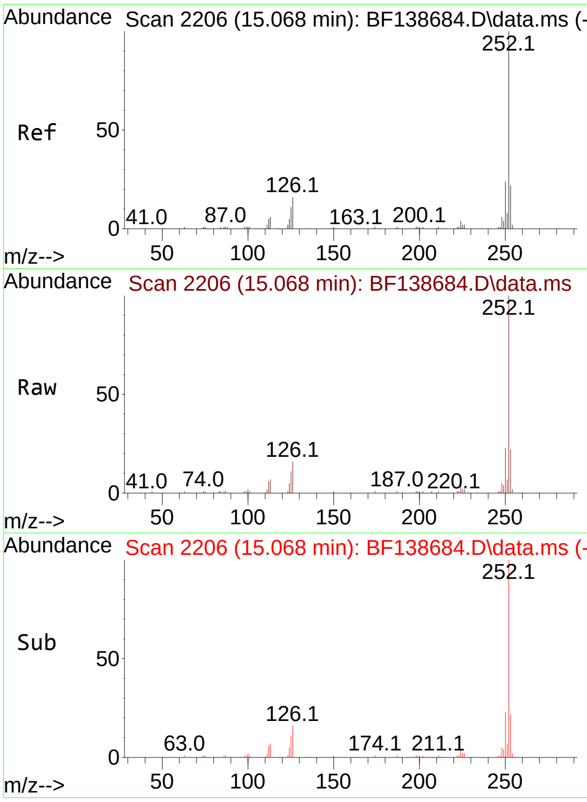
Tgt Ion:252 Resp: 372478

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	11.1	8.9	13.3



ICAL Form

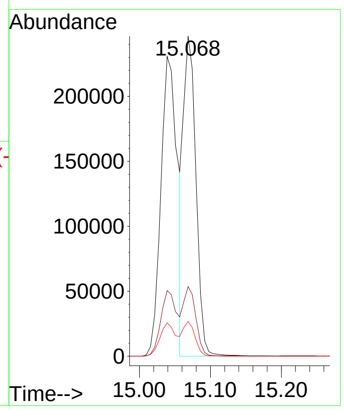
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

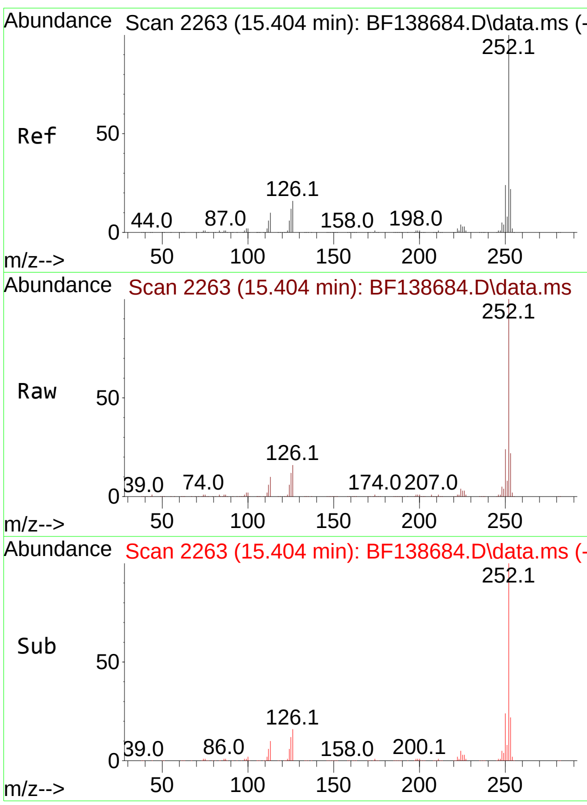


#89
Benzo(k)fluoranthene
Concen: 37.326 ng
RT: 15.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:252 Resp: 303576

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	10.8	8.6	13.0

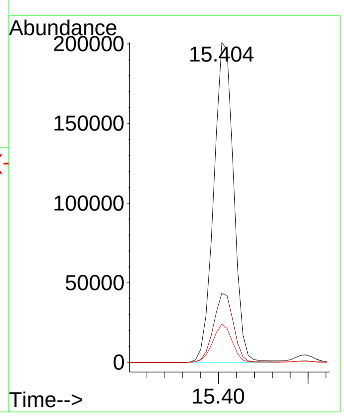




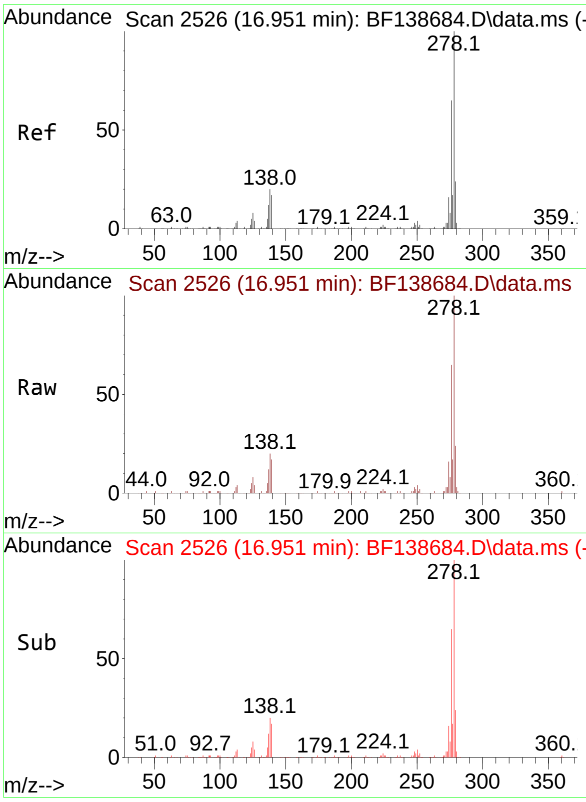
#90
Benzo(a)pyrene
Concen: 39.228 ng
RT: 15.404 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:252 Resp: 309949

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9
125	11.9	9.5	14.3



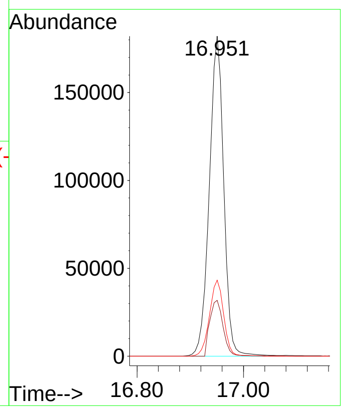
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

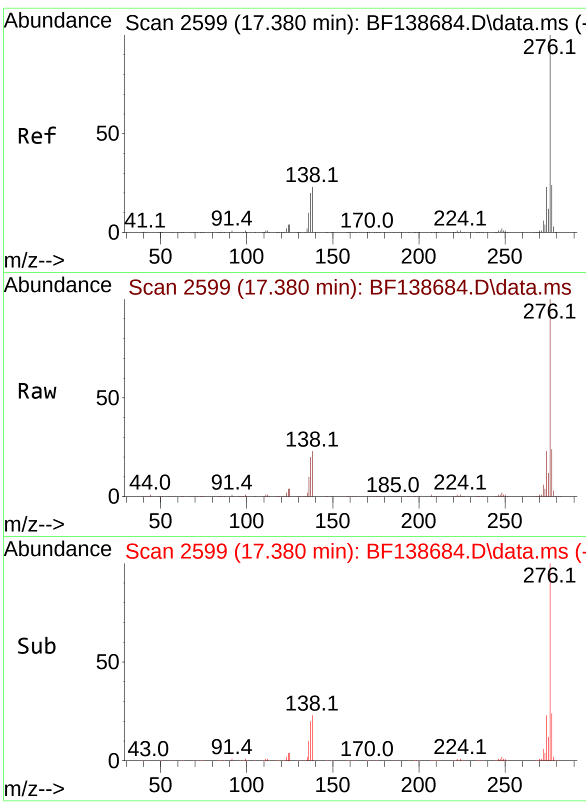


#91
Dibenzo(a,h)anthracene
Concen: 38.540 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:278 Resp: 343548

Ion	Ratio	Lower	Upper
278	100		
139	17.5	14.0	21.0
279	23.7	19.0	28.4

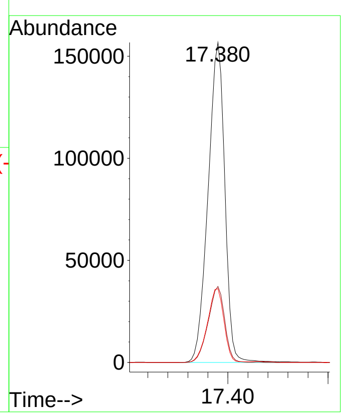




#92
Benzo(g,h,i)perylene
Concen: 39.273 ng
RT: 17.380 min Scan# 2599
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:276 Resp: 363283

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	23.1	18.5	27.7



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138685.D
Acq On : 30 Jul 2024 15:27
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Jul 30 17:45:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.845	152	74850	20.000 ng	0.00
21) Naphthalene-d8	8.128	136	297858	20.000 ng	0.00
39) Acenaphthene-d10	9.880	164	152426	20.000 ng	0.00
64) Phenanthrene-d10	11.369	188	237060	20.000 ng	0.00
76) Chrysene-d12	14.004	240	124208	20.000 ng	0.00
86) Perylene-d12	15.468	264	151751	20.000 ng	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	5.469	112	465439	95.989 ng	0.00
7) Phenol-d6	6.487	99	619012	95.084 ng	0.00
23) Nitrobenzene-d5	7.416	82	585266	96.067 ng	0.00
42) 2,4,6-Tribromophenol	10.675	330	119062	95.358 ng	0.00
45) 2-Fluorobiphenyl	9.204	172	960645	94.693 ng	0.00
79) Terphenyl-d14	12.951	244	665833	89.751 ng	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.587	88	104204	49.086 ng	98
3) Pyridine	3.340	79	258280	50.224 ng	98
4) n-Nitrosodimethylamine	3.299	42	150372	49.096 ng	97
6) Aniline	6.510	93	278162	47.911 ng	# 77
8) 2-Chlorophenol	6.634	128	244752	47.976 ng	97
9) Benzaldehyde	6.398	77	161301	41.333 ng	99
10) Phenol	6.504	94	325498	47.487 ng	90
11) bis(2-Chloroethyl)ether	6.587	93	252329	47.838 ng	99
12) 1,3-Dichlorobenzene	6.787	146	270376	47.346 ng	99
13) 1,4-Dichlorobenzene	6.863	146	277374	48.130 ng	99
14) 1,2-Dichlorobenzene	7.016	146	254151	47.188 ng	99
15) Benzyl Alcohol	6.992	79	227061	48.392 ng	99
16) 2,2'-oxybis(1-Chloropr...	7.122	45	432504	47.646 ng	96
17) 2-Methylphenol	7.104	107	200680	47.638 ng	99
18) Hexachloroethane	7.357	117	103651	47.780 ng	98
19) n-Nitroso-di-n-propyla...	7.263	70	181478	46.154 ng	98
20) 3+4-Methylphenols	7.263	107	248467	45.970 ng	91
22) Acetophenone	7.257	105	340314	46.663 ng	99
24) Nitrobenzene	7.434	77	297595	48.005 ng	97
25) Isophorone	7.669	82	487636	46.876 ng	99
26) 2-Nitrophenol	7.745	139	130074	48.769 ng	99
27) 2,4-Dimethylphenol	7.787	122	154221	48.328 ng	100
28) bis(2-Chloroethoxy)met...	7.881	93	299695	47.308 ng	100
29) 2,4-Dichlorophenol	7.992	162	196641	47.954 ng	99
30) 1,2,4-Trichlorobenzene	8.069	180	226165	47.793 ng	98
31) Naphthalene	8.151	128	744393	47.479 ng	100
32) Benzoic acid	7.916	122	123714	49.340 ng	97
33) 4-Chloroaniline	8.204	127	250620	47.621 ng	98
34) Hexachlorobutadiene	8.263	225	138993	48.493 ng	98
35) Caprolactam	8.581	113	56708	46.347 ng	96
36) 4-Chloro-3-methylphenol	8.686	107	216280	46.151 ng	99
37) 2-Methylnaphthalene	8.839	142	461125	46.570 ng	100
38) 1-Methylnaphthalene	8.939	142	450948	46.476 ng	99
40) 1,2,4,5-Tetrachloroben...	9.004	216	206585	48.789 ng	99
41) Hexachlorocyclopentadiene	8.986	237	52700	49.894 ng	97
43) 2,4,6-Trichlorophenol	9.122	196	125832	48.741 ng	98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138685.D
Acq On : 30 Jul 2024 15:27
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Jul 30 17:45:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	137518	48.726 ng	98
46) 1,1'-Biphenyl	9.304	154	574292	48.107 ng	100
47) 2-Chloronaphthalene	9.328	162	426264	48.011 ng	98
48) 2-Nitroaniline	9.428	65	144739	48.087 ng	99
49) Acenaphthylene	9.745	152	599464	47.605 ng	99
50) Dimethylphthalate	9.604	163	460459	47.244 ng	99
51) 2,6-Dinitrotoluene	9.669	165	105483	47.956 ng	96
52) Acenaphthene	9.916	154	399608	47.208 ng	100
53) 3-Nitroaniline	9.839	138	108951	47.915 ng	99
54) 2,4-Dinitrophenol	9.951	184	49980	49.361 ng	96
55) Dibenzofuran	10.086	168	565582	47.333 ng	99
56) 4-Nitrophenol	10.010	139	66924	48.943 ng	94
57) 2,4-Dinitrotoluene	10.075	165	130457	46.487 ng	95
58) Fluorene	10.433	166	444469	46.711 ng	99
59) 2,3,4,6-Tetrachlorophenol	10.210	232	106594	49.402 ng	99
60) Diethylphthalate	10.304	149	424041	45.886 ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	220930	47.209 ng	99
62) 4-Nitroaniline	10.451	138	101171	46.819 ng	100
63) Azobenzene	10.580	77	479859	46.818 ng	100
65) 4,6-Dinitro-2-methylph...	10.486	198	72667	50.244 ng	95
66) n-Nitrosodiphenylamine	10.539	169	359408	48.503 ng	99
67) 4-Bromophenyl-phenylether	10.910	248	124874	48.653 ng	99
68) Hexachlorobenzene	10.975	284	126744	47.827 ng	99
69) Atrazine	11.063	200	90580	47.380 ng	98
70) Pentachlorophenol	11.175	266	61385	51.390 ng	99
71) Phenanthrene	11.392	178	575040	47.109 ng	100
72) Anthracene	11.445	178	571666	47.539 ng	99
73) Carbazole	11.598	167	480092	46.275 ng	99
74) Di-n-butylphthalate	11.927	149	559303	47.956 ng	99
75) Fluoranthene	12.580	202	533004	46.772 ng	99
77) Benzidine	12.704	184	145955	49.129 ng	99
78) Pyrene	12.810	202	525950	44.974 ng	99
80) Butylbenzylphthalate	13.421	149	193143	51.575 ng	99
81) Benzo(a)anthracene	13.998	228	419449	49.040 ng	99
82) 3,3'-Dichlorobenzidine	13.957	252	107444	49.088 ng	98
83) Chrysene	14.033	228	373417	48.391 ng	98
84) Bis(2-ethylhexyl)phtha...	13.980	149	293490	53.519 ng	99
85) Di-n-octyl phthalate	14.592	149	540838	53.306 ng	100
87) Indeno(1,2,3-cd)pyrene	16.939	276	533298	49.039 ng	99
88) Benzo(b)fluoranthene	15.045	252	447896	47.613 ng	99
89) Benzo(k)fluoranthene	15.074	252	402008	49.358 ng	99
90) Benzo(a)pyrene	15.410	252	389298	49.199 ng	100
91) Dibenzo(a,h)anthracene	16.951	278	432604	48.460 ng	99
92) Benzo(g,h,i)perylene	17.386	276	453886	48.997 ng	100

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

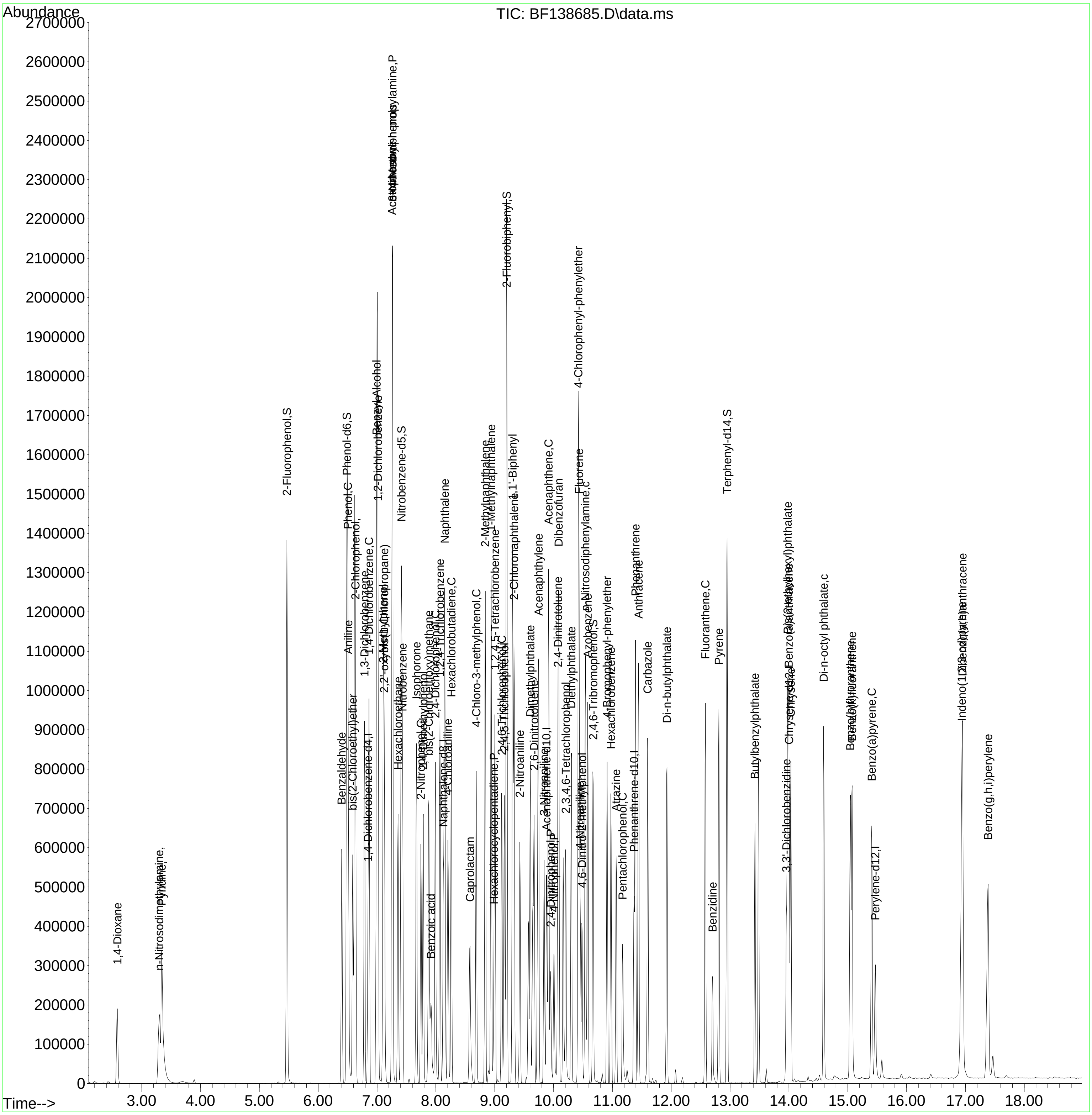
Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138685.D
Acq On : 30 Jul 2024 15:27
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

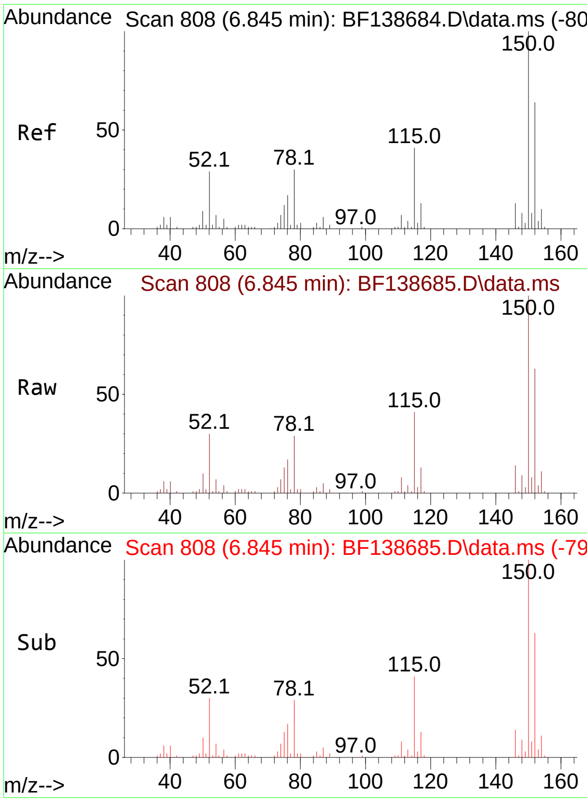
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Jul 30 17:45:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



ICAL Form

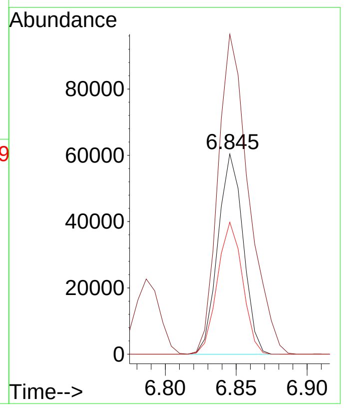
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

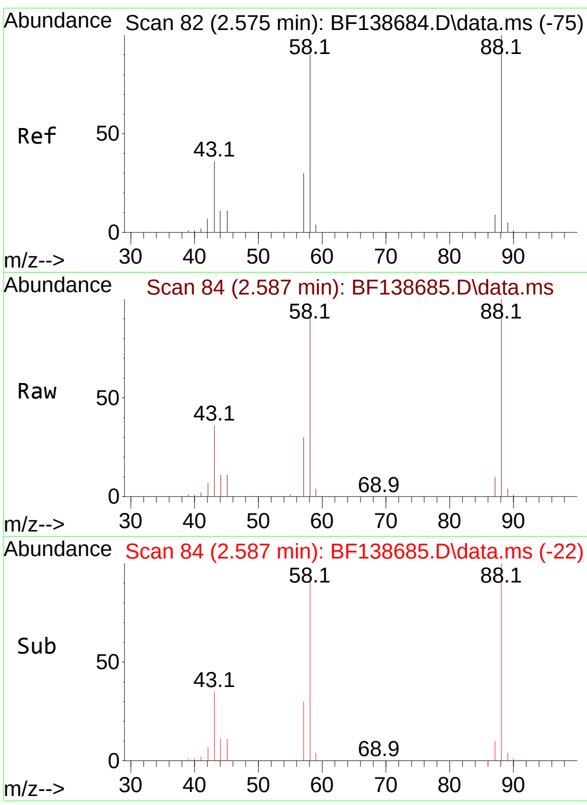


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8[illegible]
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:152 Resp: 74850

Ion	Ratio	Lower	Upper
152	100		
150	159.8	126.0	189.0
115	65.9	51.7	77.5

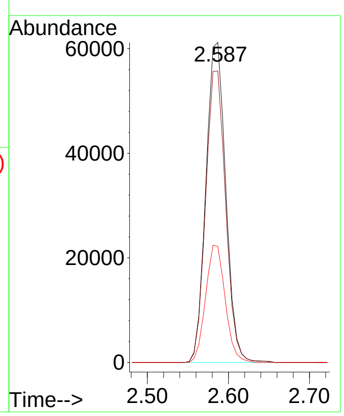




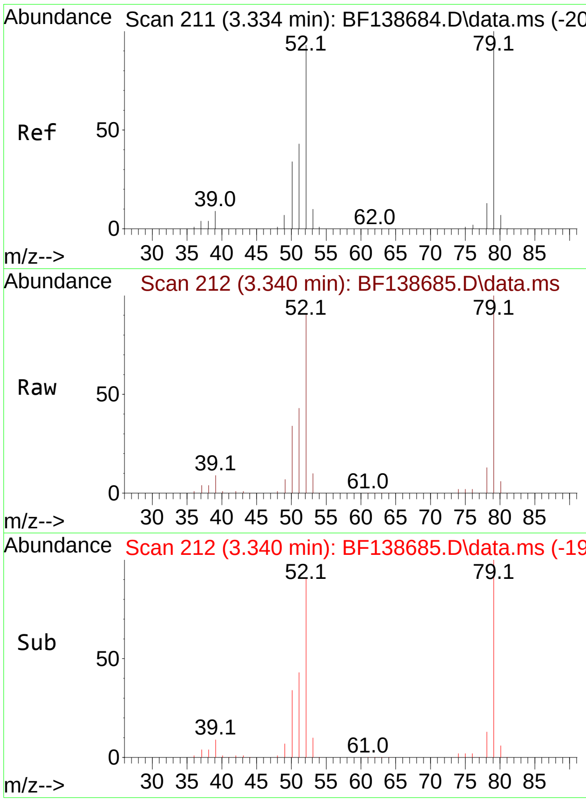
#2
1,4-Dioxane
Concen: 49.086 ng
RT: 2.587 min Scan# 84
Delta R.T. 0.012 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 88 Resp: 104204

Ion	Ratio	Lower	Upper
88	100		
58	91.5	71.6	107.4
43	36.1	28.7	43.1



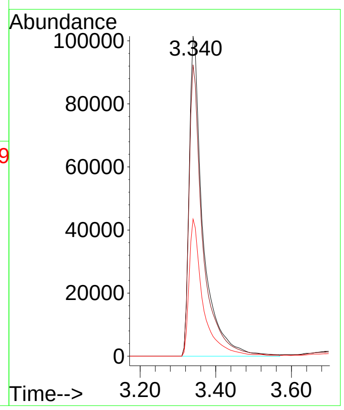
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

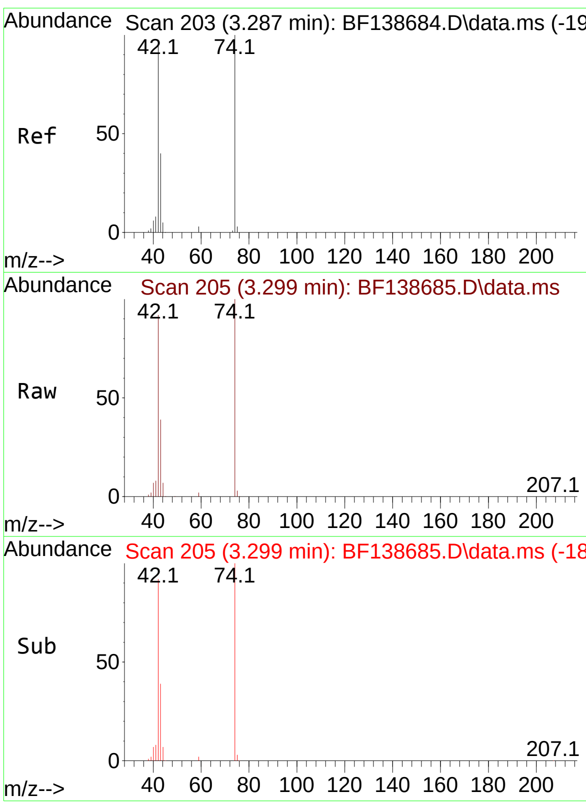


#3
Pyridine
Concen: 50.224 ng
RT: 3.340 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 79 Resp: 258280

Ion	Ratio	Lower	Upper
79	100		
52	91.0	74.7	112.1
51	42.9	34.6	51.8

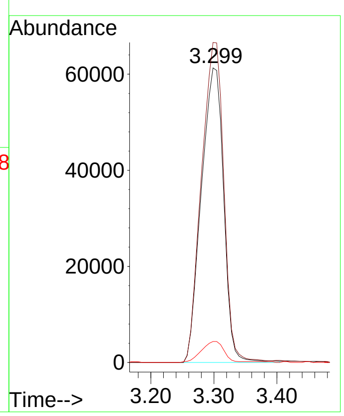




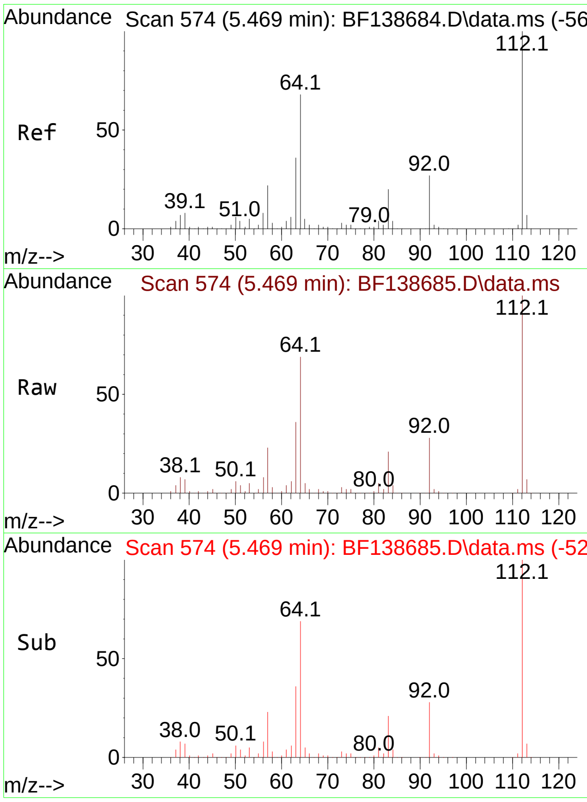
#4
n-Nitrosodimethylamine
Concen: 49.096 ng
RT: 3.299 min Scan# 205
Delta R.T. 0.012 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 42 Resp: 150372

Ion	Ratio	Lower	Upper
42	100		
74	108.7	84.2	126.4
44	7.1	4.9	7.3



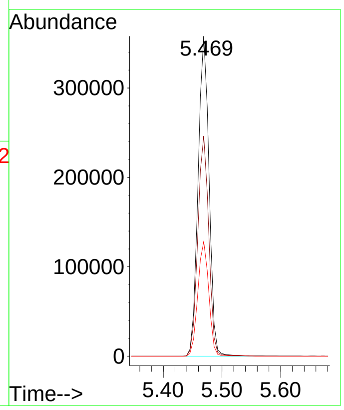
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

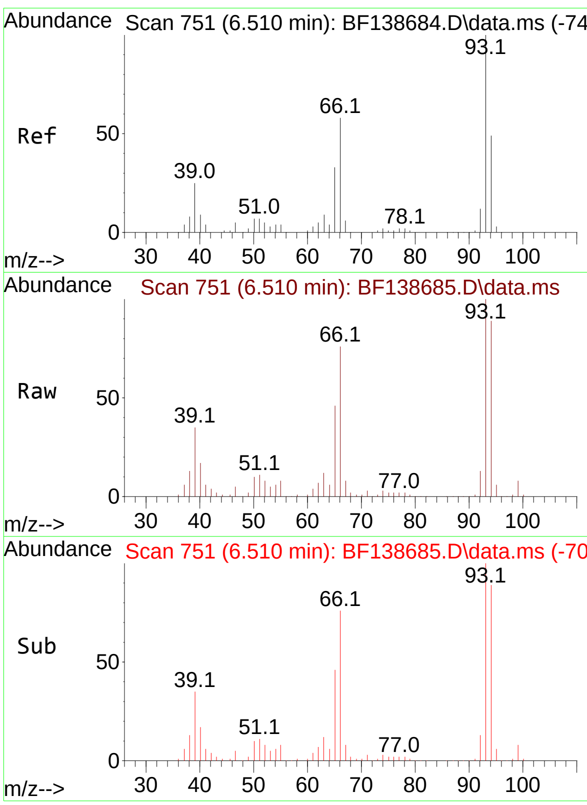


#5
2-Fluorophenol
Concen: 95.989 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:112 Resp: 465439

Ion	Ratio	Lower	Upper
112	100		
64	68.8	54.2	81.4
63	35.8	28.7	43.1

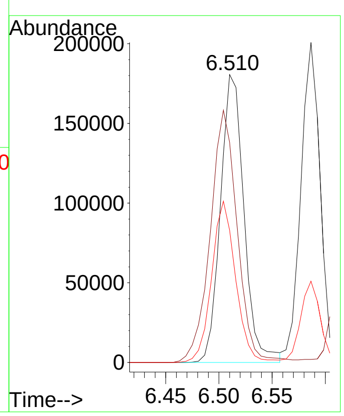




#6
Aniline
Concen: 47.911 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

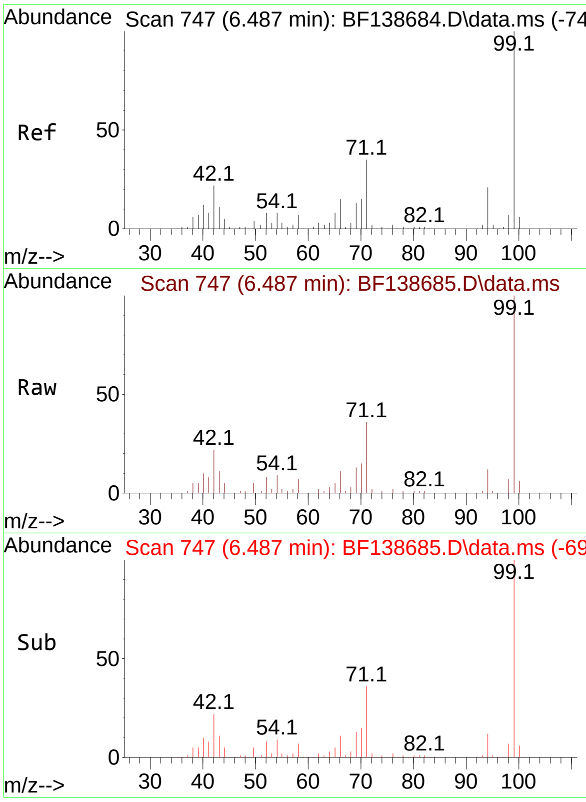
Tgt Ion: 93 Resp: 278162

Ion	Ratio	Lower	Upper
93	100		
66	76.5	46.9	70.3#
65	45.9	26.5	39.7#



ICAL Form

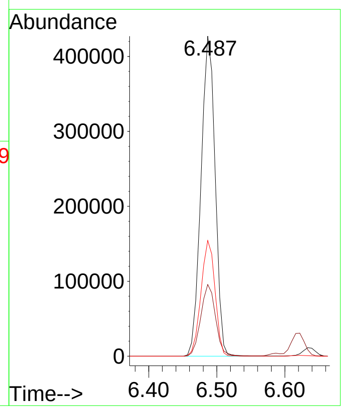
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

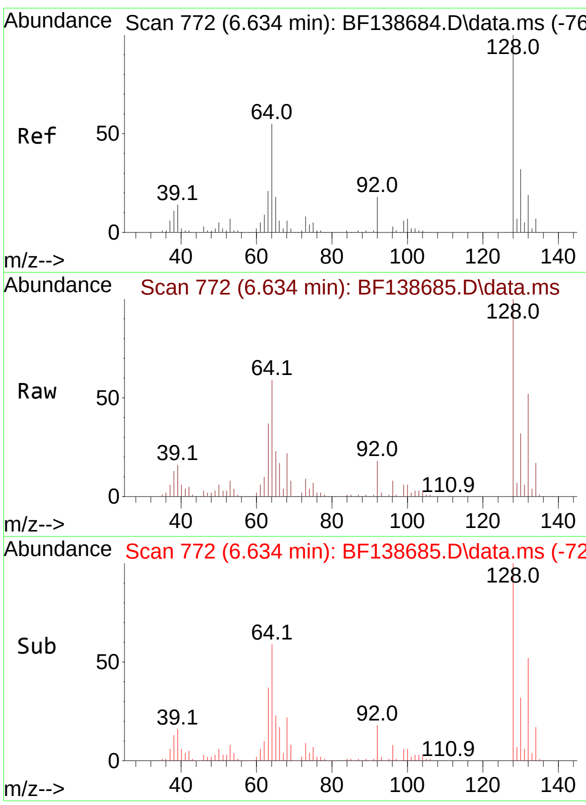


#7
Phenol-d6
Concen: 95.084 ng
RT: 6.487 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 99 Resp: 619012

Ion	Ratio	Lower	Upper
99	100		
42	22.4	17.4	26.0
71	36.2	28.1	42.1

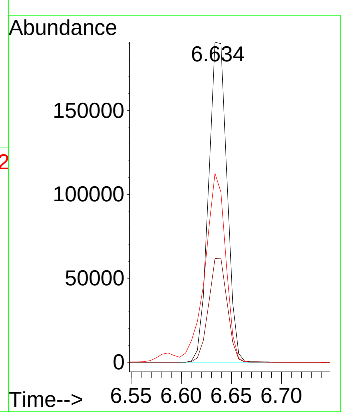




#8
2-Chlorophenol
Concen: 47.976 ng
RT: 6.634 min Scan# 772
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

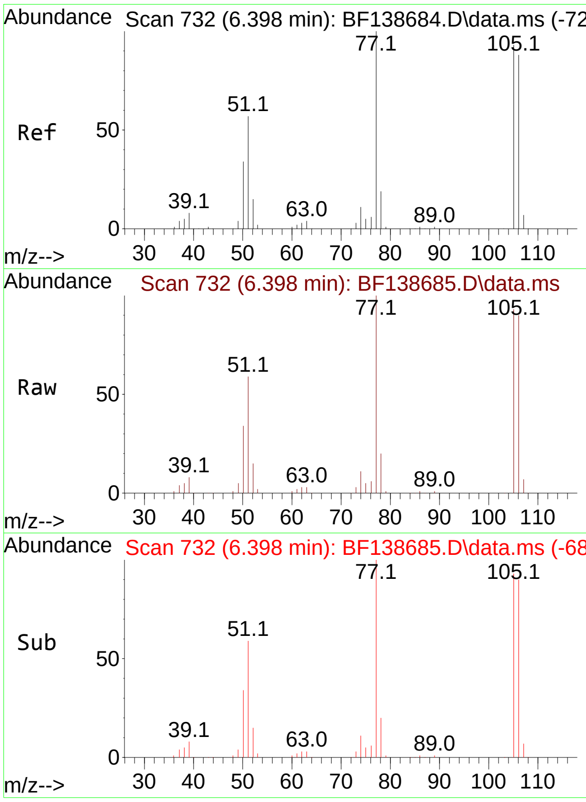
Tgt Ion:128 Resp: 244752

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.0	52.0
64	59.1	36.3	76.3



ICAL Form

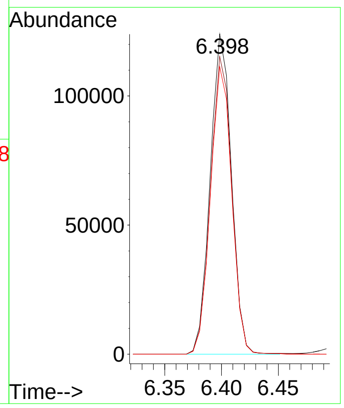
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

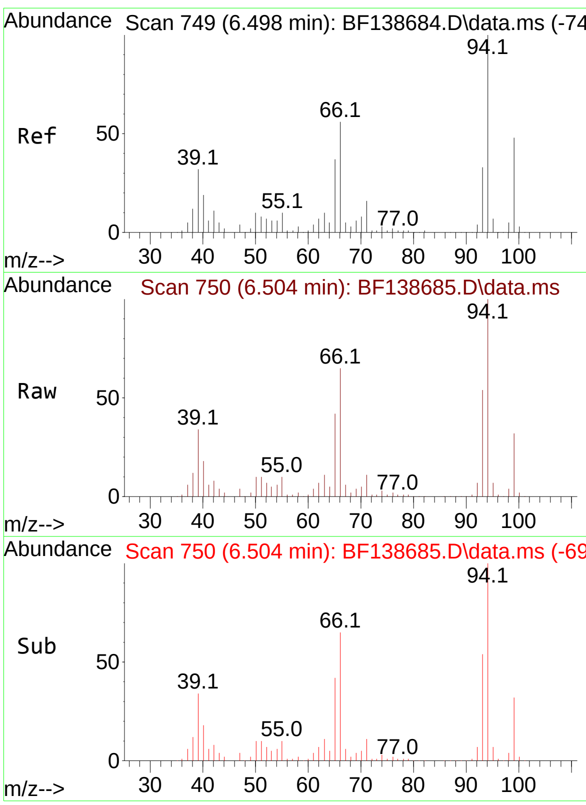


#9
Benzaldehyde
Concen: 41.333 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 77 Resp: 161301

Ion	Ratio	Lower	Upper
77	100		
105	93.0	72.9	112.9
106	89.8	68.4	108.4

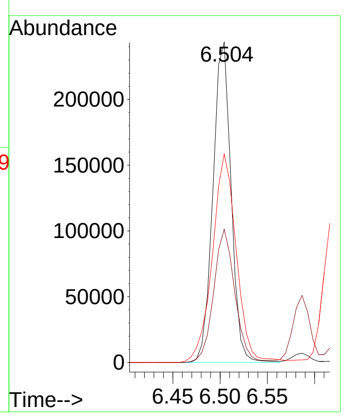




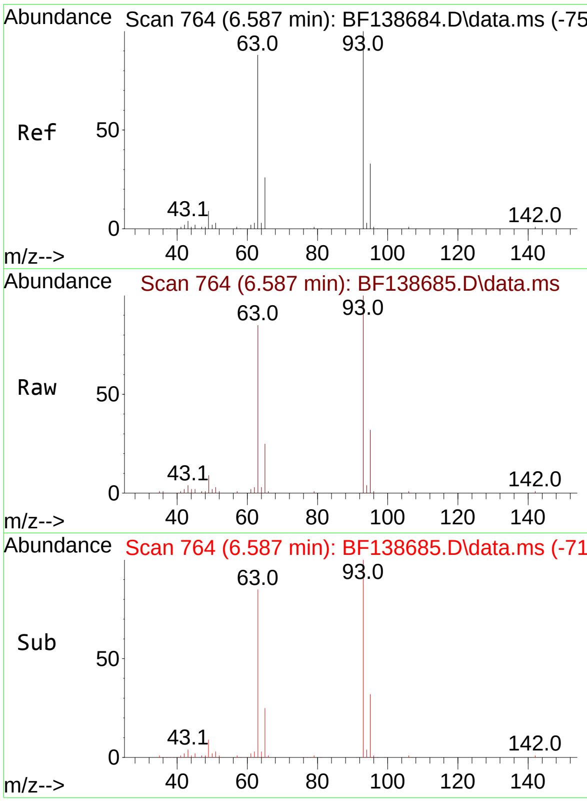
#10
Phenol
Concen: 47.487 ng
RT: 6.504 min Scan# 750
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 94 Resp: 325498

Ion	Ratio	Lower	Upper
94	100		
65	41.6	16.9	56.9
66	65.1	36.5	76.5



ICAL Form

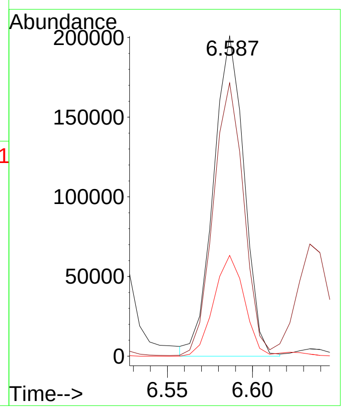


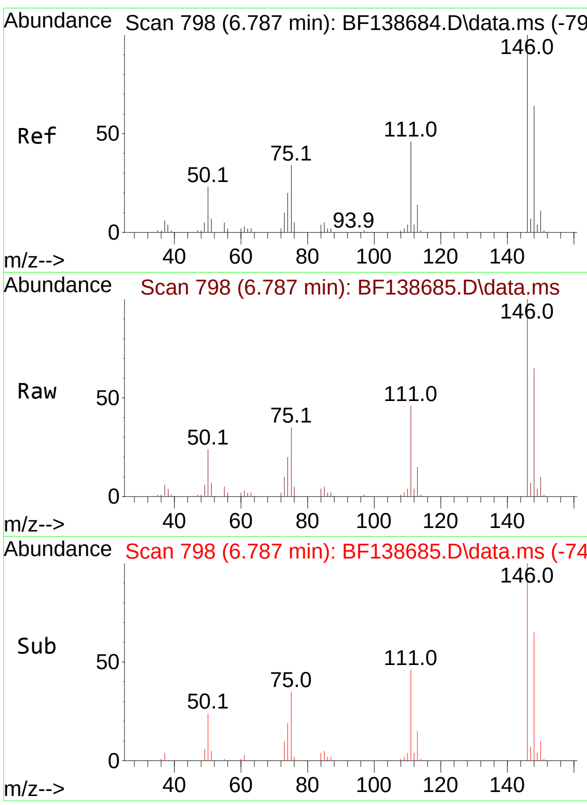
#11
bis(2-Chloroethyl)ether
Concen: 47.838 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 252329

Ion	Ratio	Lower	Upper
93	100		
63	85.4	65.3	105.3
95	31.5	12.4	52.4

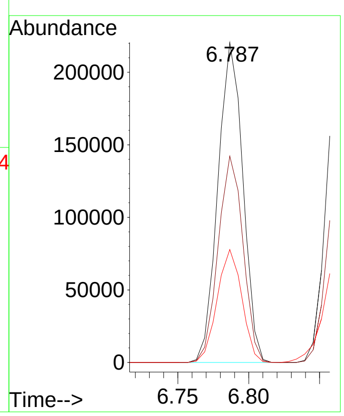




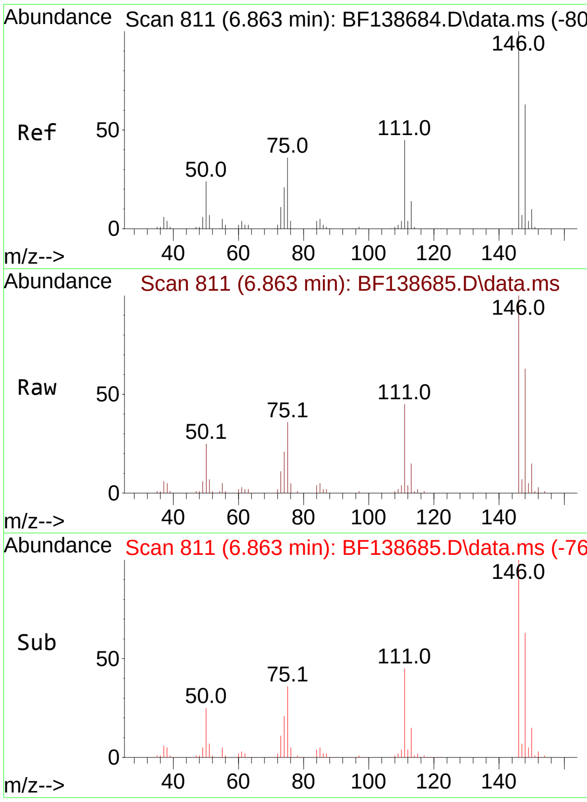
#12
1,3-Dichlorobenzene
Concen: 47.346 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:146 Resp: 270376

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.2	76.8
75	35.3	27.4	41.2



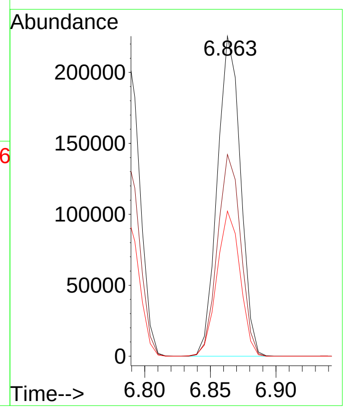
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

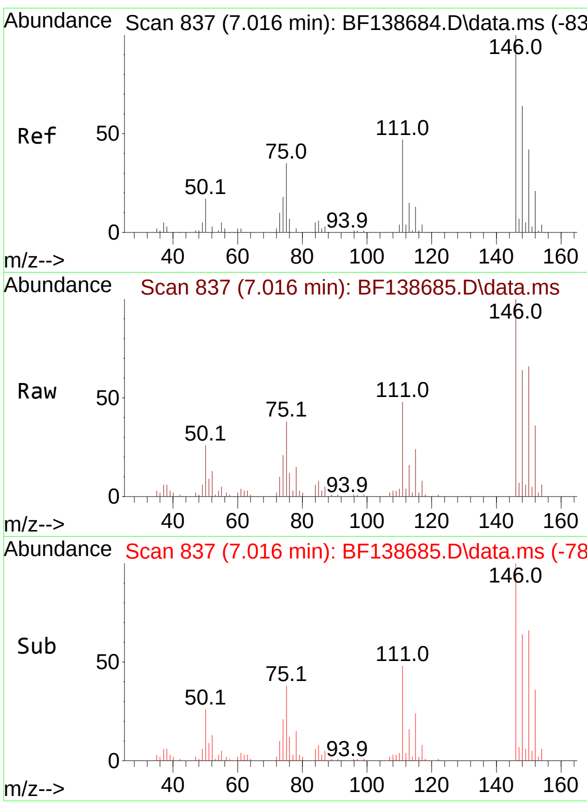


#13
1,4-Dichlorobenzene
Concen: 48.130 ng
RT: 6.863 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:146 Resp: 277374

Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.2	75.2
111	45.4	35.9	53.9

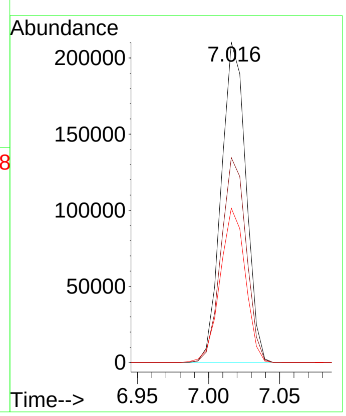




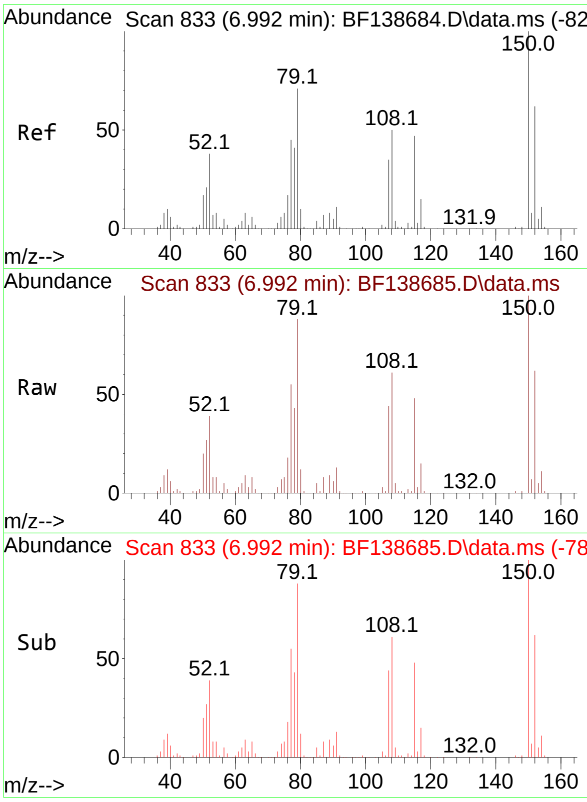
#14
1,2-Dichlorobenzene
Concen: 47.188 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:146 Resp: 254151

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.8	76.2
111	48.2	37.4	56.2



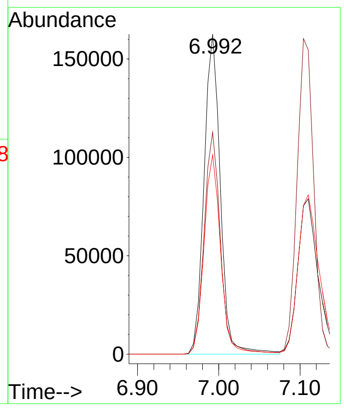
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

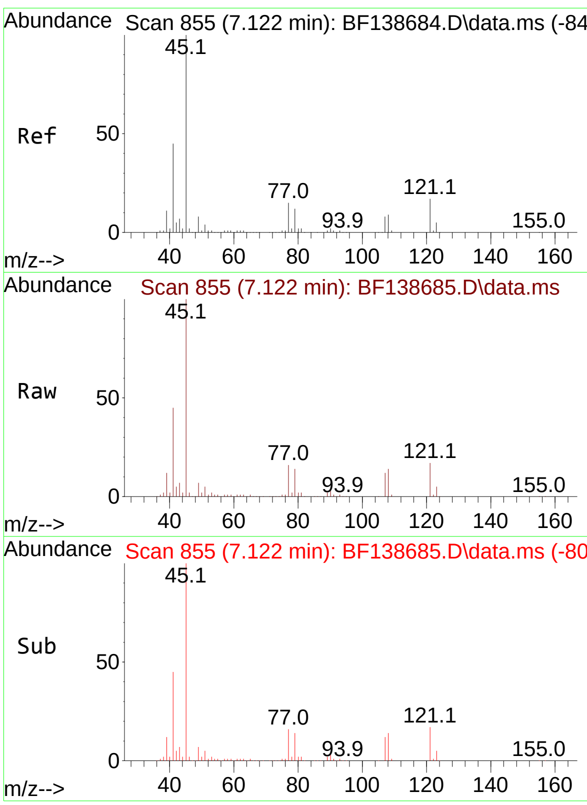


#15
Benzyl Alcohol
Concen: 48.392 ng
RT: 6.992 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 79 Resp: 227061

Ion	Ratio	Lower	Upper
79	100		
108	69.4	56.6	85.0
77	62.3	50.3	75.5

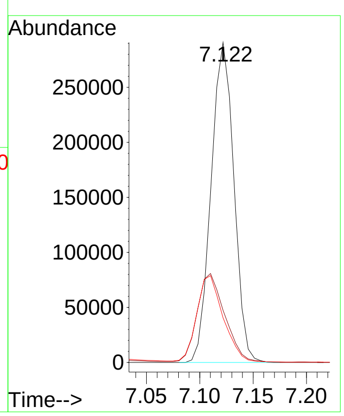




#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.646 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 45 Resp: 432504

Ion	Ratio	Lower	Upper
45	100		
77	16.3	0.0	34.9
79	13.9	0.0	32.2



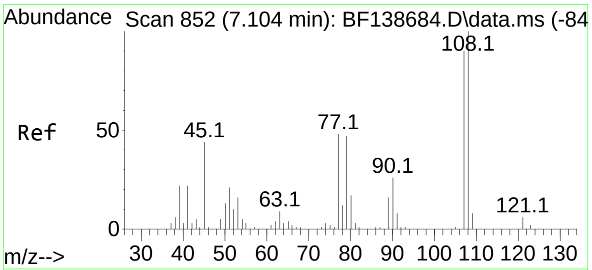
ICAL Form

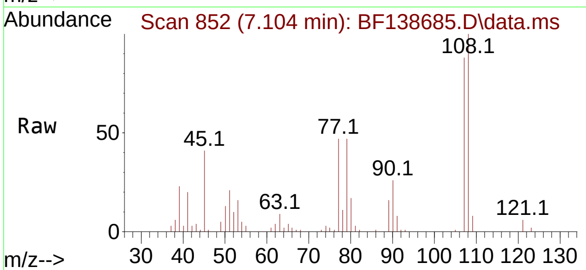
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

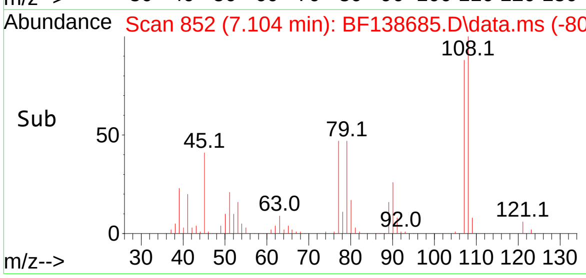
#17
2-Methylphenol
Concen: 47.638 ng
RT: 7.104 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

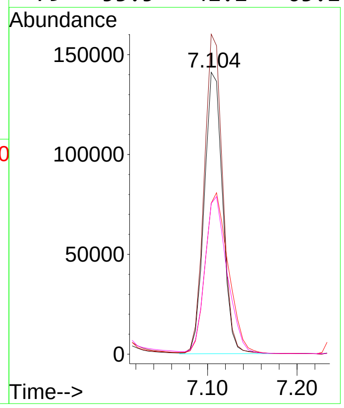
Tgt Ion:107 Resp: 200680

Ion	Ratio	Lower	Upper
107	100		
108	113.5	89.2	133.8
77	53.6	43.0	64.4
79	53.5	42.2	63.2





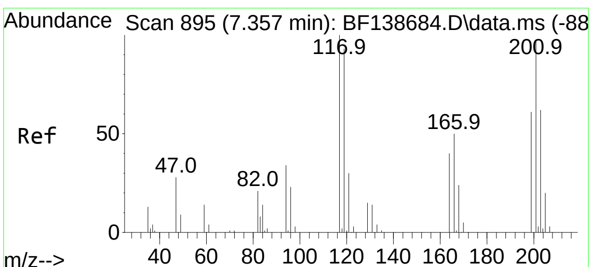


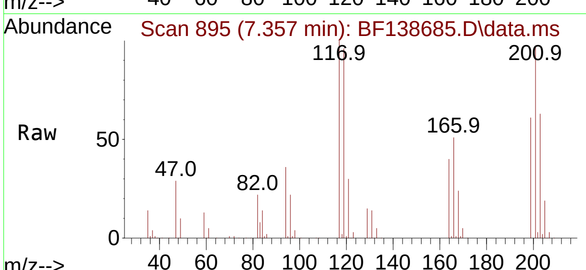


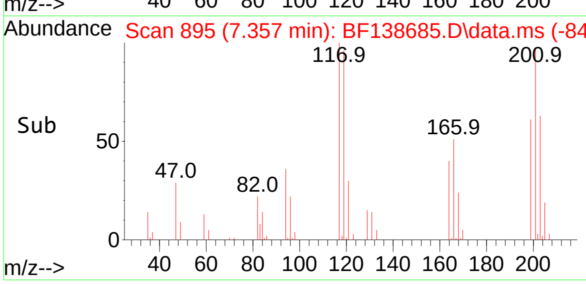
#18
Hexachloroethane
Concen: 47.780 ng
RT: 7.357 min Scan# 895
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

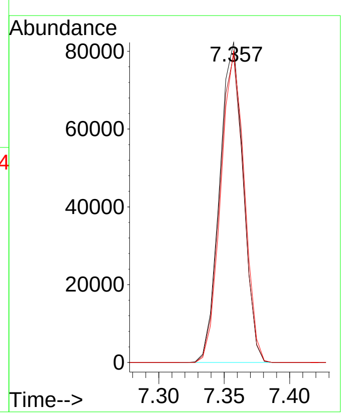
Tgt Ion:117 Resp: 103651

Ion	Ratio	Lower	Upper
117	100		
119	96.0	74.6	111.8
201	97.3	77.2	115.8

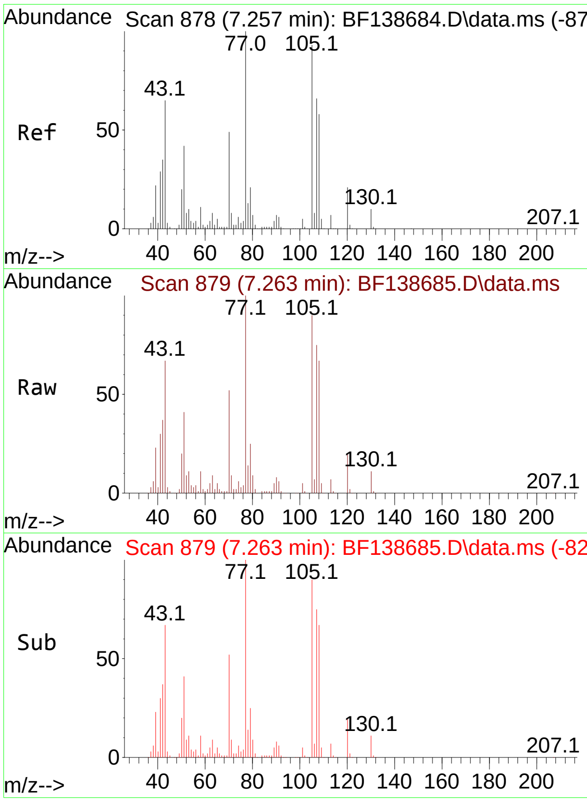








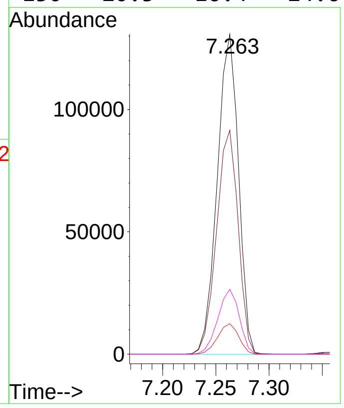
Instrument : BNA_F
ClientSampleId : SSTDICC050

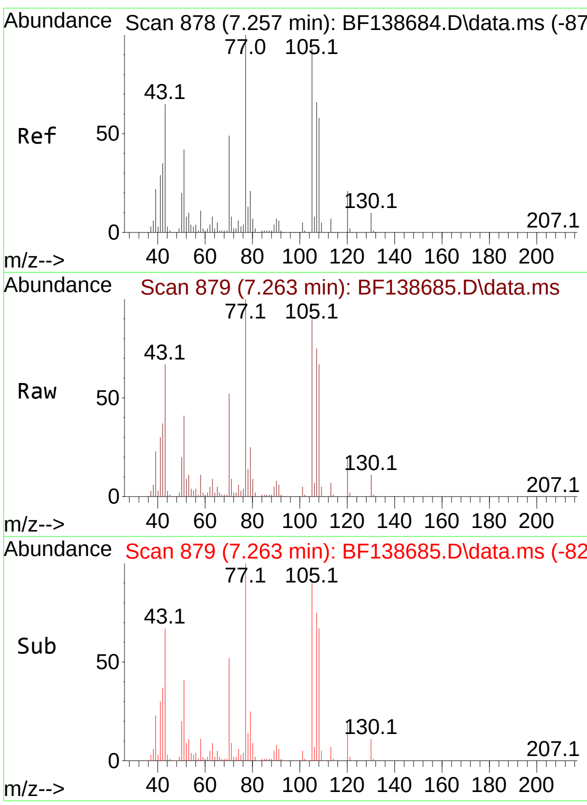


#19
n-Nitroso-di-n-propylamine
Concen: 46.154 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 70 Resp: 181478

Ion	Ratio	Lower	Upper
70	100		
42	69.9	57.4	86.0
101	9.6	7.5	11.3
130	20.3	16.4	24.6

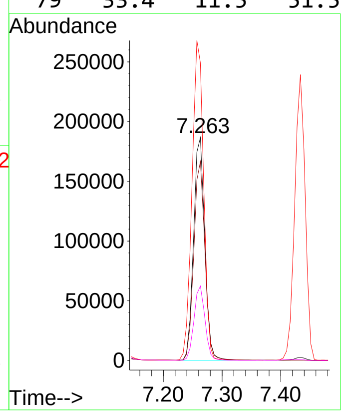




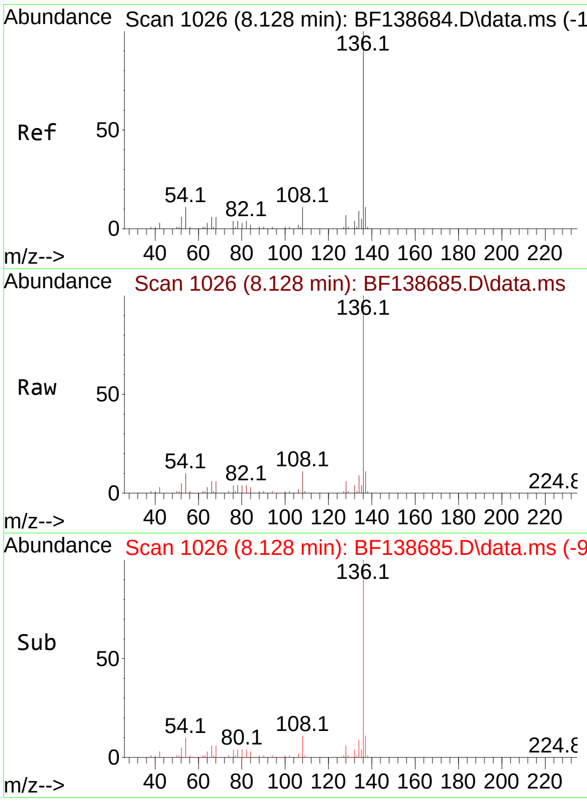
#20
3+4-Methylphenols
Concen: 45.970 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:107 Resp: 248467

Ion	Ratio	Lower	Upper
107	100		
108	89.3	68.2	108.2
77	133.6	132.1	172.1
79	33.4	11.5	51.5



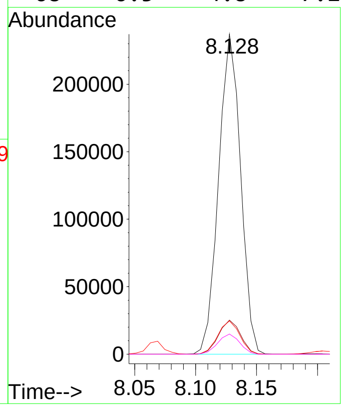
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

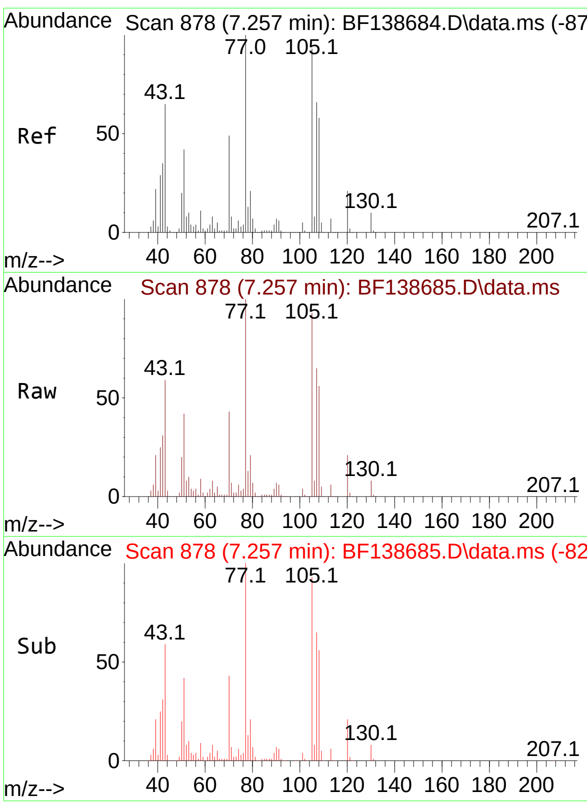


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:136 Resp: 297858

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	10.4	8.6	12.8
68	6.3	4.8	7.2

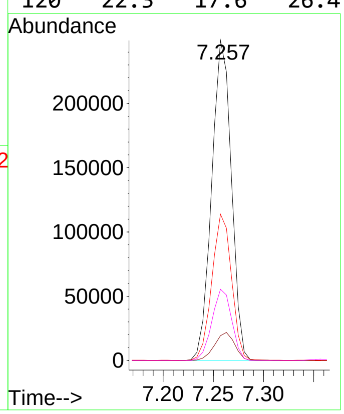


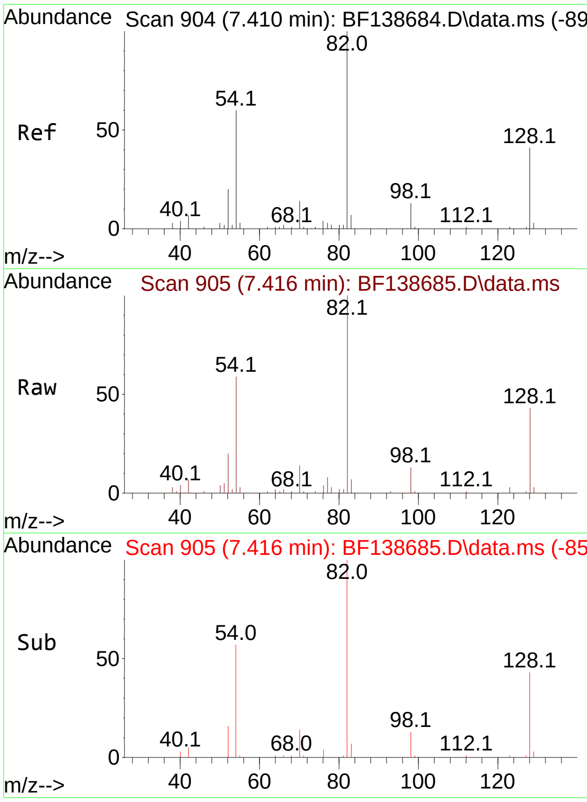


#22
Acetophenone
Concen: 46.663 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:105 Resp: 340314

Ion	Ratio	Lower	Upper
105	100		
71	7.7	7.2	10.8
51	45.7	35.9	53.9
120	22.3	17.6	26.4



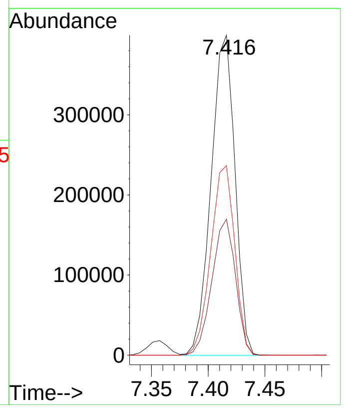


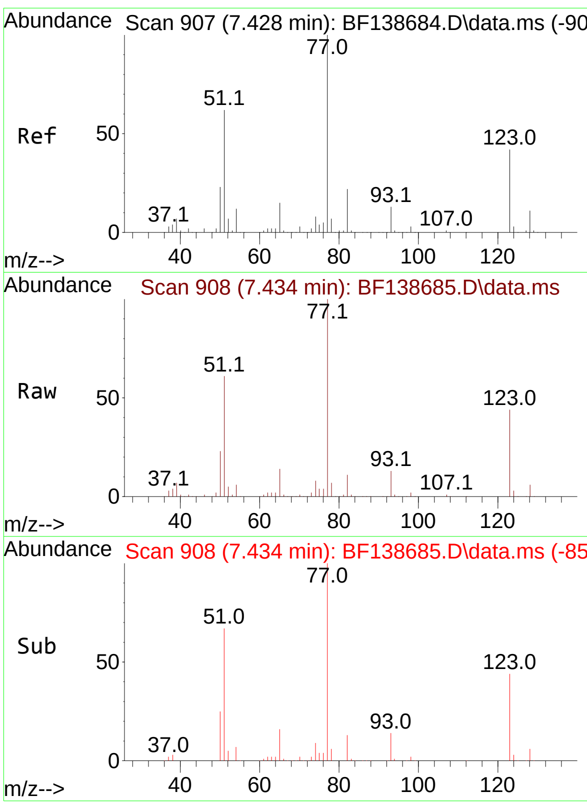
#23
Nitrobenzene-d5
Concen: 96.067 ng
RT: 7.416 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 585266

Ion	Ratio	Lower	Upper
82	100		
128	42.5	32.8	49.2
54	59.3	48.3	72.5

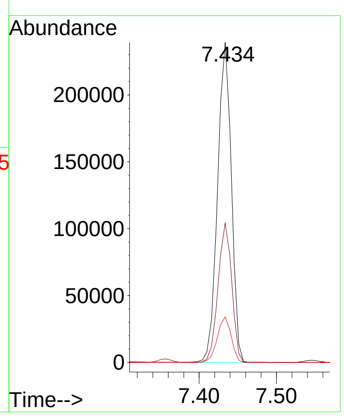




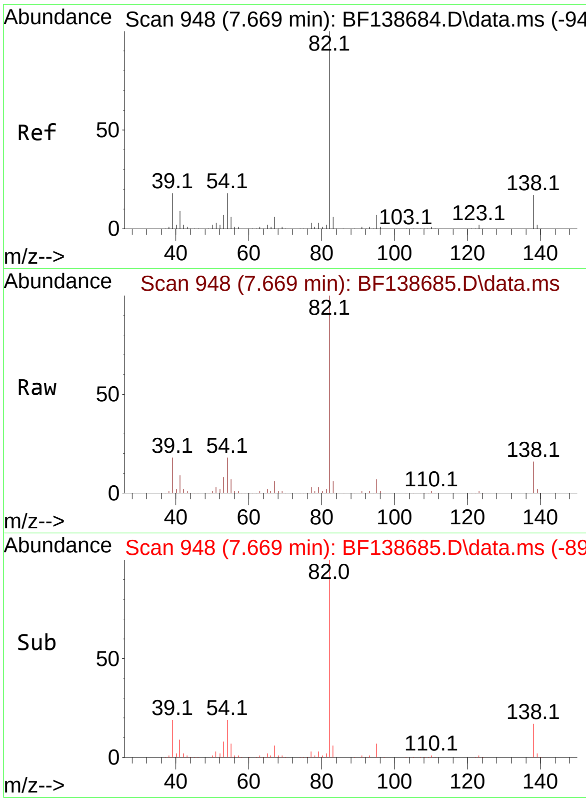
#24
Nitrobenzene
Concen: 48.005 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 77 Resp: 297595

Ion	Ratio	Lower	Upper
77	100		
123	43.5	33.3	49.9
65	14.2	11.9	17.9



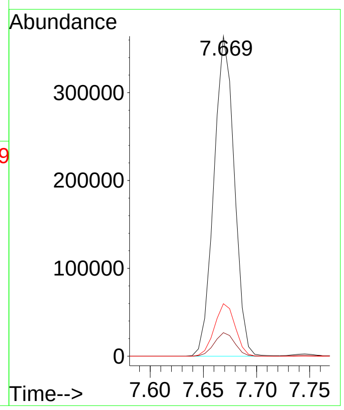
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

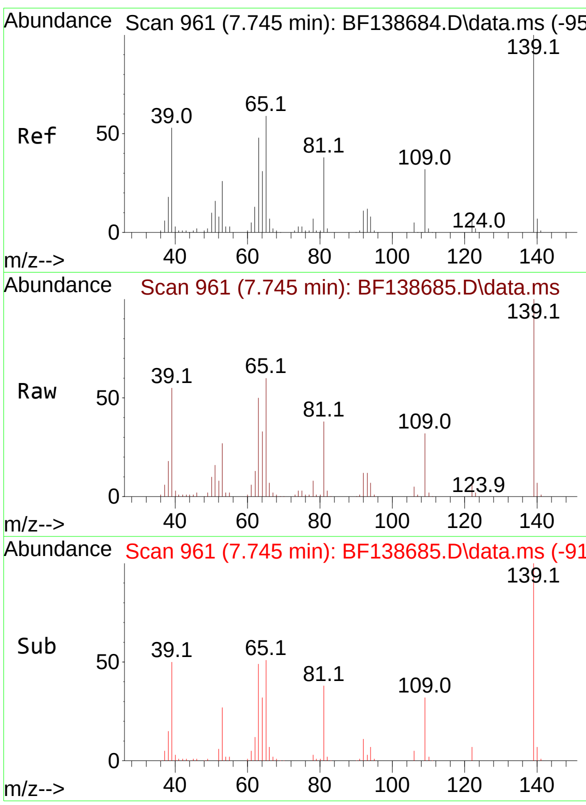


#25
Isophorone
Concen: 46.876 ng
RT: 7.669 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 82 Resp: 487636

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.7	8.5
138	16.4	13.7	20.5

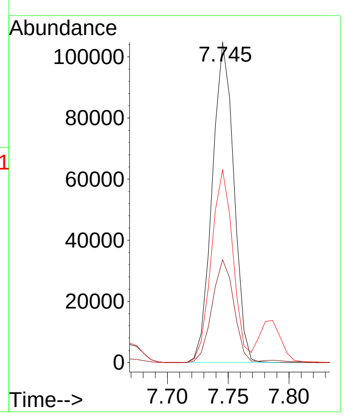




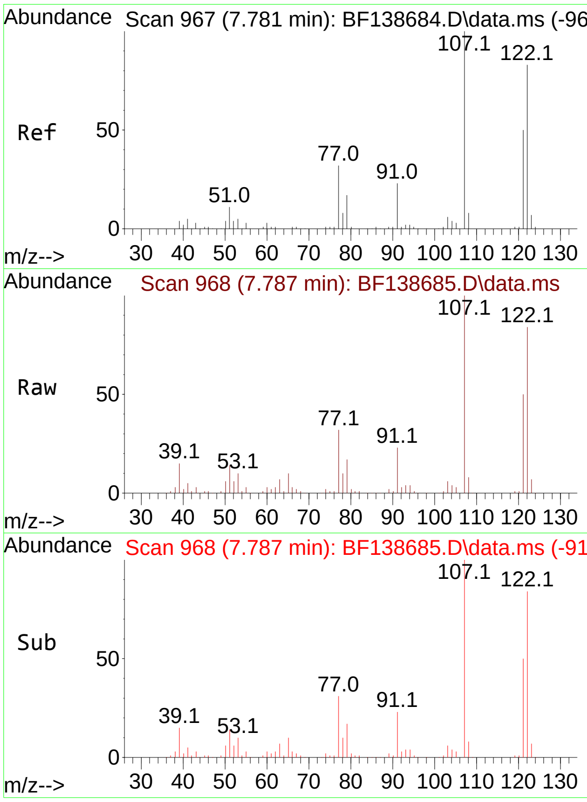
#26
2-Nitrophenol
Concen: 48.769 ng
RT: 7.745 min Scan# 961
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:139 Resp: 130074

Ion	Ratio	Lower	Upper
139	100		
109	32.1	25.9	38.9
65	60.1	47.0	70.6



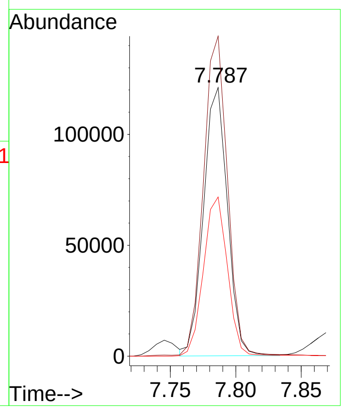
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

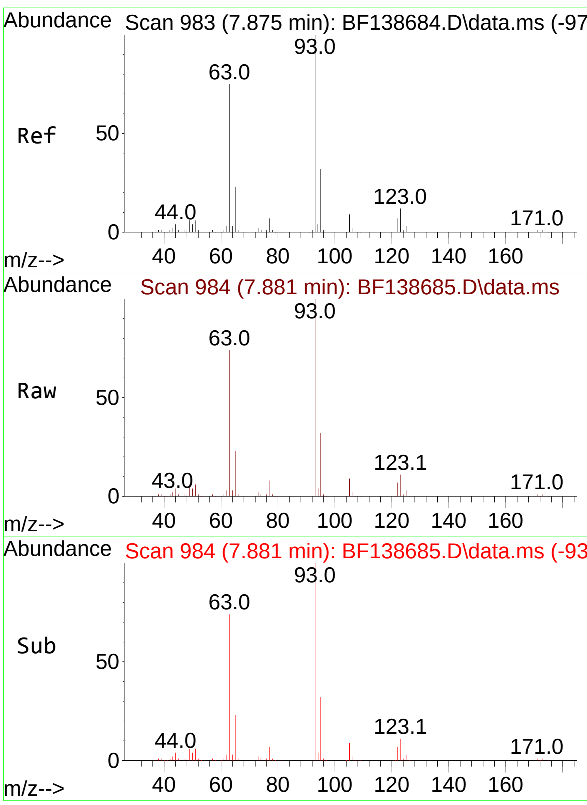


#27
2,4-Dimethylphenol
Concen: 48.328 ng
RT: 7.787 min   Scan# 9
Delta R.T.   0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

Tgt Ion:122 Resp: 154221

Ion	Ratio	Lower	Upper
122	100		
107	119.1	95.0	142.6
121	59.3	47.3	70.9

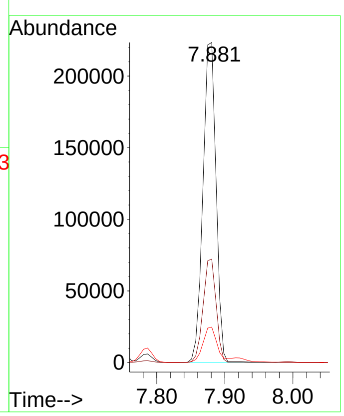




#28
bis(2-Chloroethoxy)methane
Concen: 47.308 ng
RT: 7.881 min   Scan# 984
Delta R.T.   0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

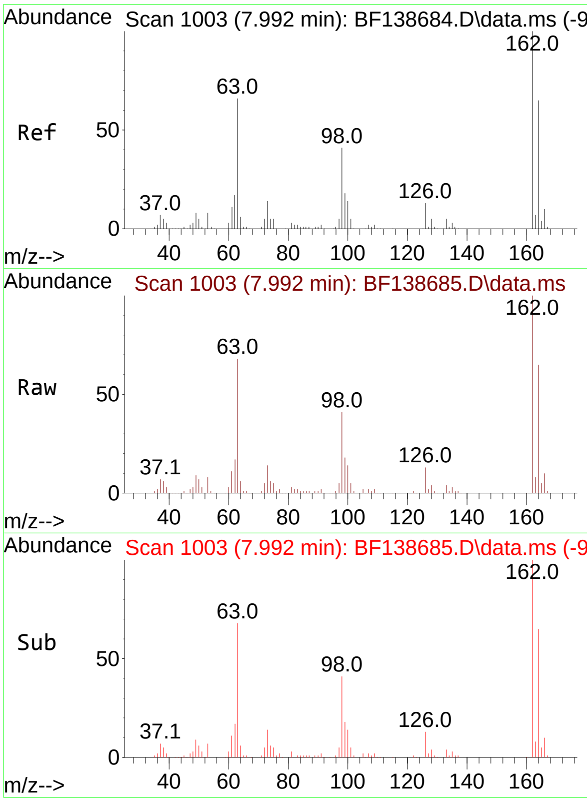
Tgt Ion: 93 Resp: 299695

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.8	38.8
123	11.1	9.4	14.0



ICAL Form

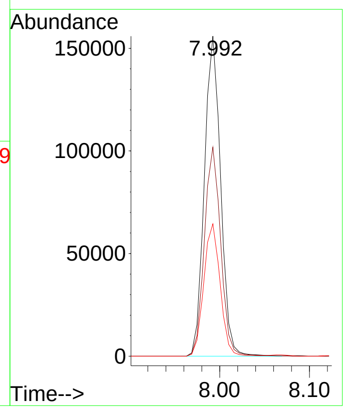
Instrument : BNA_F
ClientSampleId : SSTDICC050

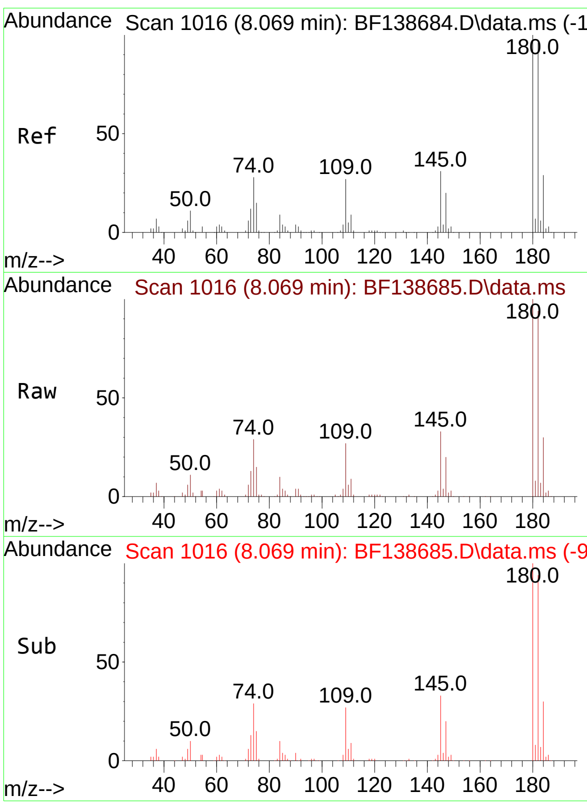


#29
2,4-Dichlorophenol
Concen: 47.954 ng
RT: 7.992 min   Scan# 1
Delta R.T.   0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

Tgt Ion:162 Resp: 196641

Ion	Ratio	Lower	Upper
162	100		
164	65.3	44.7	84.7
98	41.4	20.8	60.8

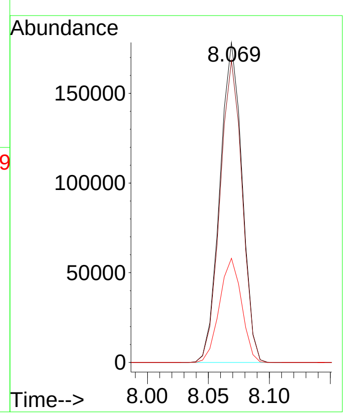




#30
1,2,4-Trichlorobenzene
Concen: 47.793 ng
RT: 8.069 min   Scan# 1016
Delta R.T.   0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

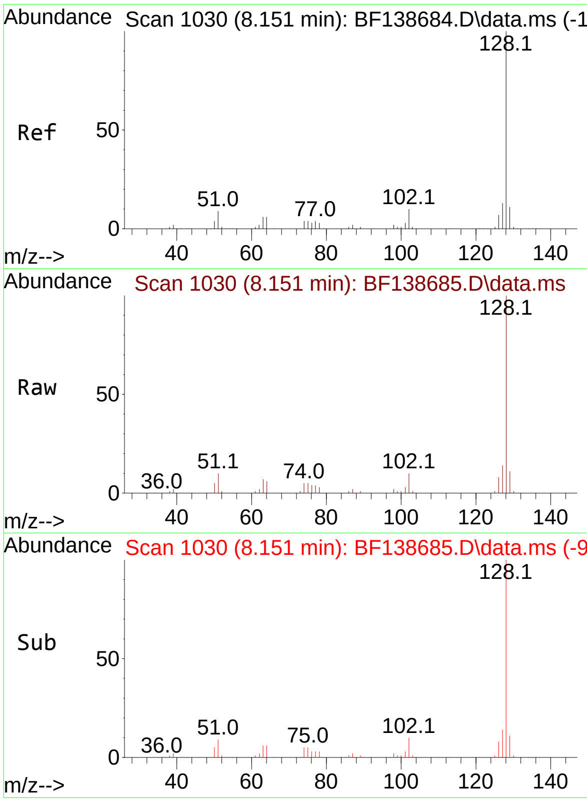
Tgt Ion:180 Resp: 226165

Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.9	115.3
145	32.5	25.0	37.4

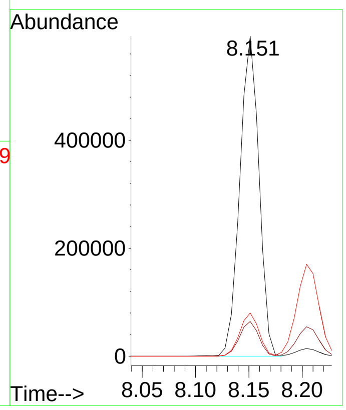


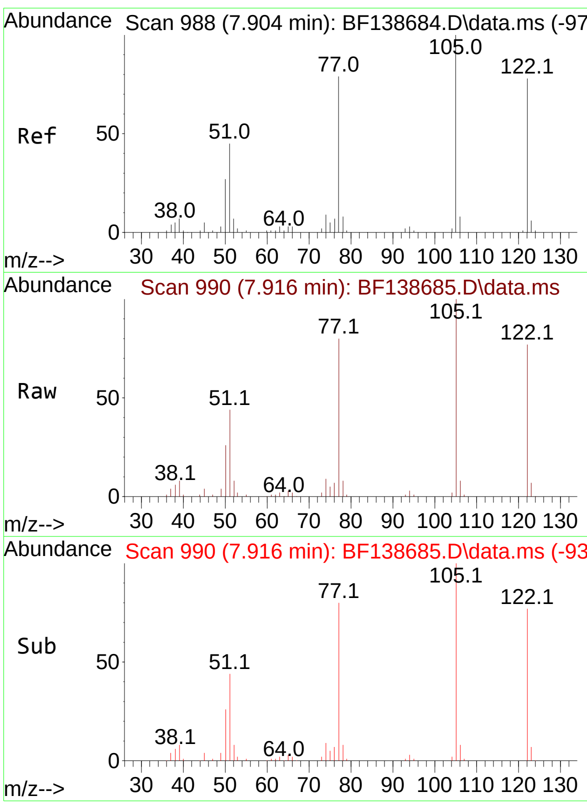
ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

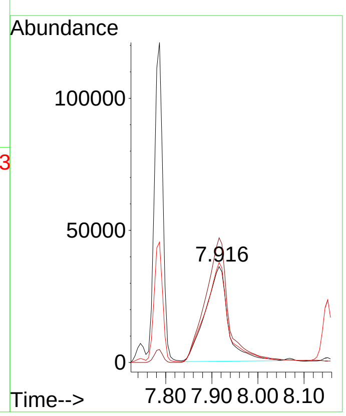



```
#31
Naphthalene
Concen:   47.479 ng
RT:   8.151 min  Scan# 10
Delta R.T.  0.000 min
Lab File:   BF138685.D
Acq: 30 Jul 2024  15:27

Tgt Ion:128 Resp:  744393
Ion  Ratio  Lower  Upper
128  100
129   10.9    8.7   13.1
127   13.5   10.6   16.0
```



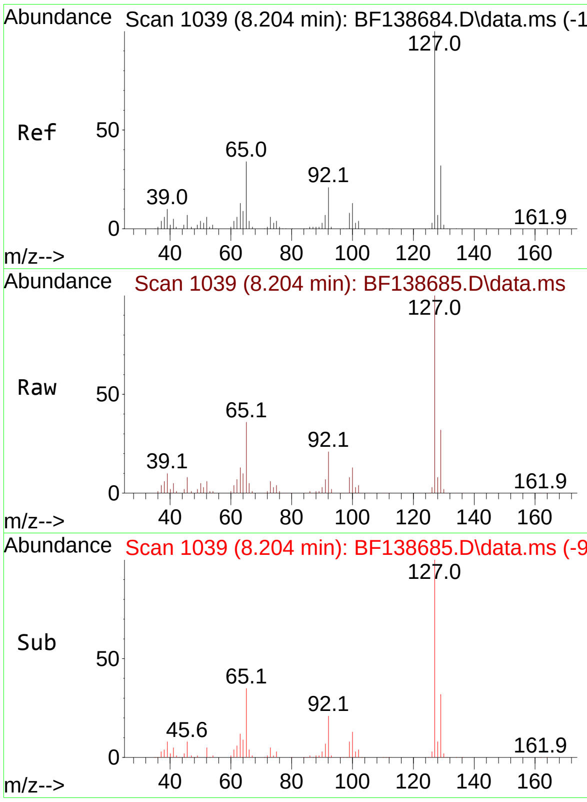



```
#32
Benzoic acid
Concen:   49.340 ng
RT:   7.916 min  Scan# 990
Delta R.T.  0.012 min
Lab File:   BF138685.D
Acq: 30 Jul 2024  15:27

Tgt Ion:122 Resp:  123714
Ion  Ratio  Lower  Upper
122  100
105  130.0  106.7  146.7
 77  104.4   81.1  121.1
```

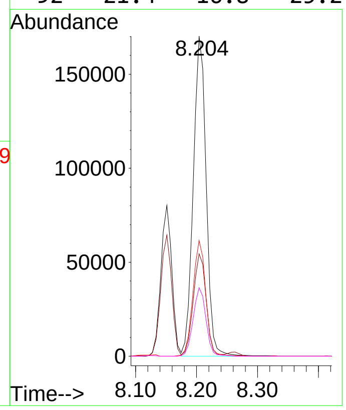


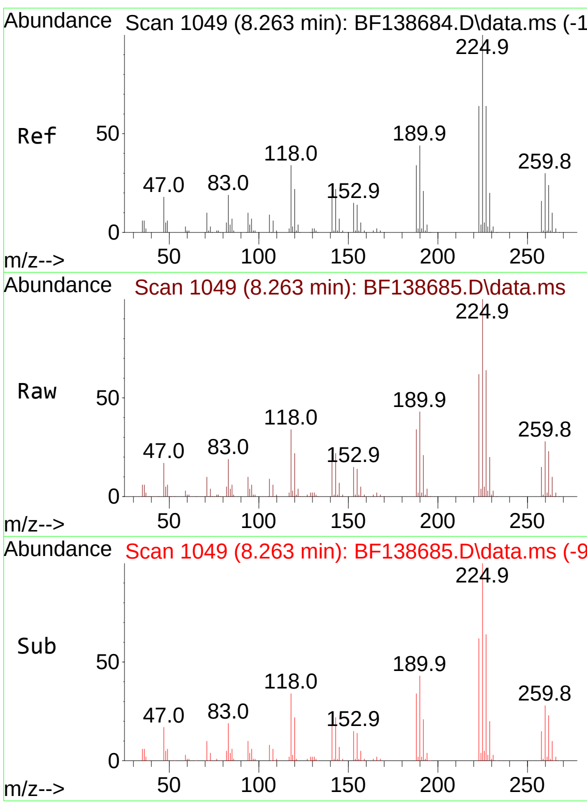
ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

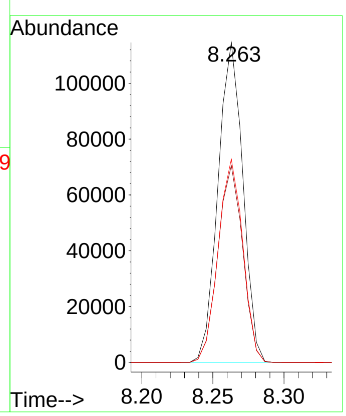



```
#33
4-Chloroaniline
Concen:   47.621 ng
RT:   8.204 min  Scan# 1(
Delta R.T.  0.000 min
Lab File:   BF138685.D
Acq: 30 Jul 2024  15:27

Tgt Ion:127 Resp:  250620
Ion  Ratio  Lower  Upper
127  100
129   32.0   25.9   38.9
 65   36.2   27.6   41.4
 92   21.4   16.8   25.2
```

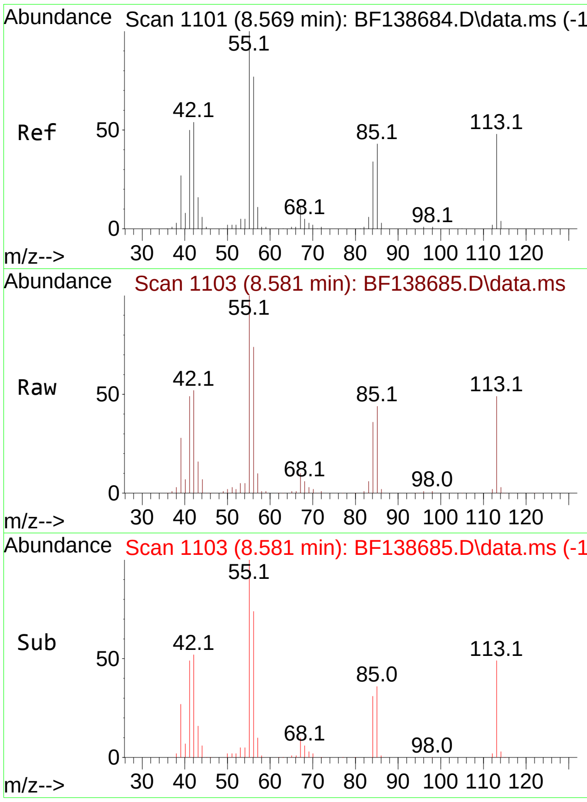





```
#34
Hexachlorobutadiene
Concen:   48.493 ng
RT:   8.263 min  Scan# 1049
Delta R.T.  -0.000 min
Lab File:   BF138685.D
Acq: 30 Jul 2024  15:27

Tgt Ion:225 Resp:  138993
Ion  Ratio  Lower  Upper
225  100
223   61.5   51.2   76.8
227   63.6   51.1   76.7
```



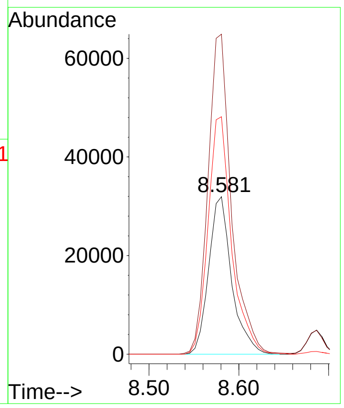
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

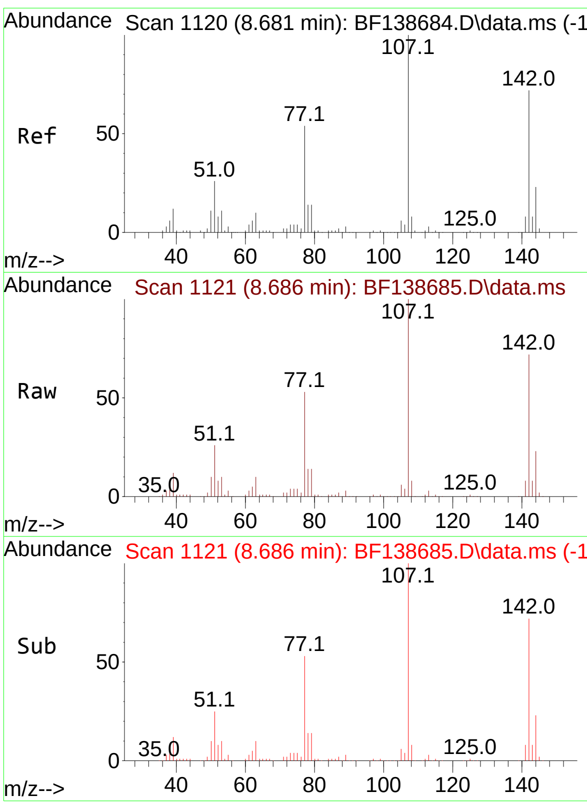


#35
Caprolactam
Concen: 46.347 ng
RT: 8.581 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:113 Resp: 56708

Ion	Ratio	Lower	Upper
113	100		
55	203.2	186.7	226.7
56	150.8	138.9	178.9

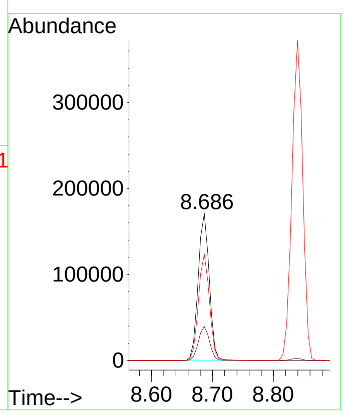




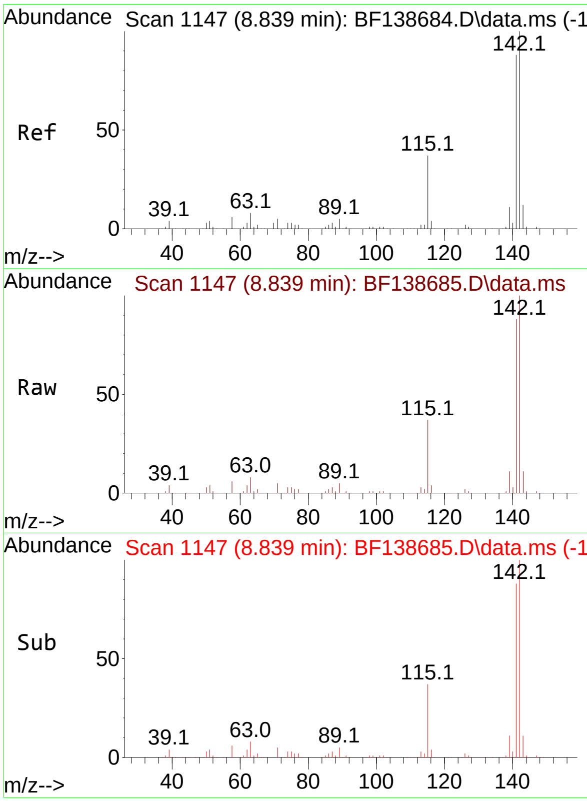
#36
4-Chloro-3-methylphenol
Concen: 46.151 ng
RT: 8.686 min Scan# 1121
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:107 Resp: 216280

Ion	Ratio	Lower	Upper
107	100		
144	23.2	18.2	27.2
142	72.3	57.4	86.2



ICAL Form



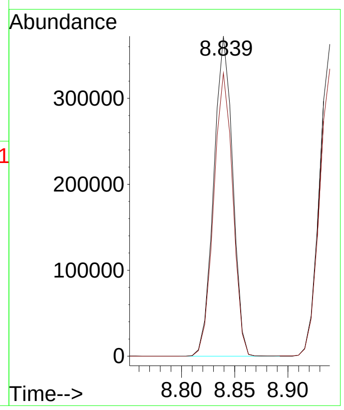
#37
2-Methylnaphthalene
Concen: 46.570 ng
RT: 8.839 min Scan# 1

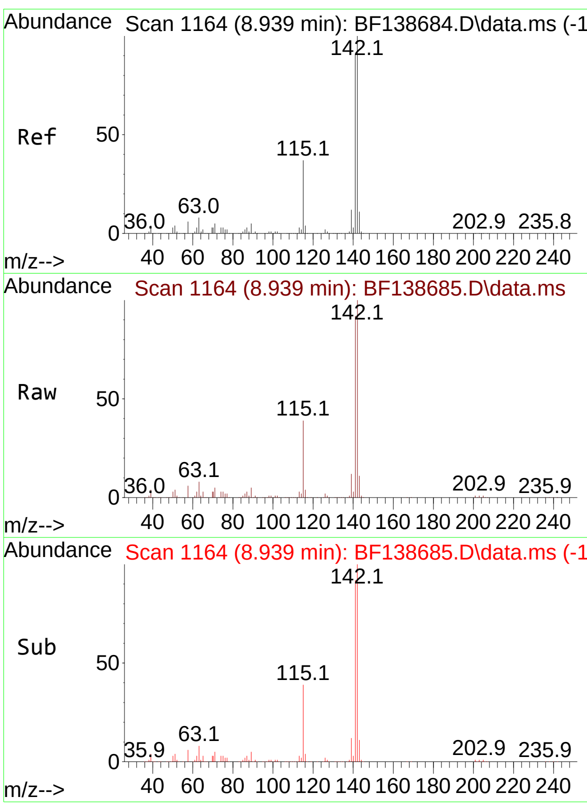
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:142 Resp: 461125

Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.8	106.2

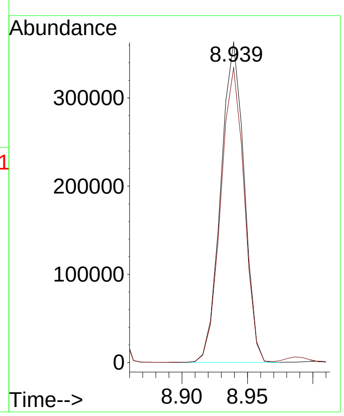




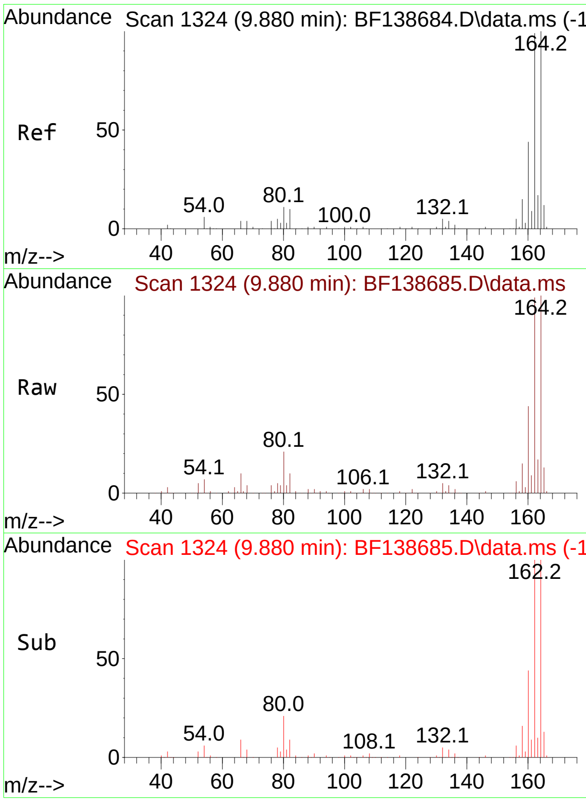
#38
1-Methylnaphthalene
Concen: 46.476 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:142 Resp: 450948

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.1	109.7



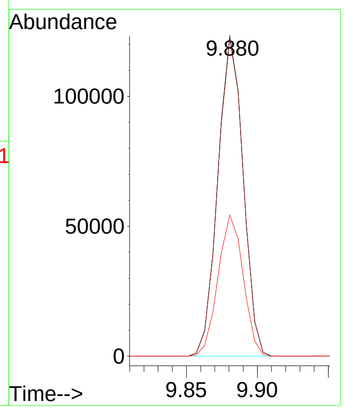
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

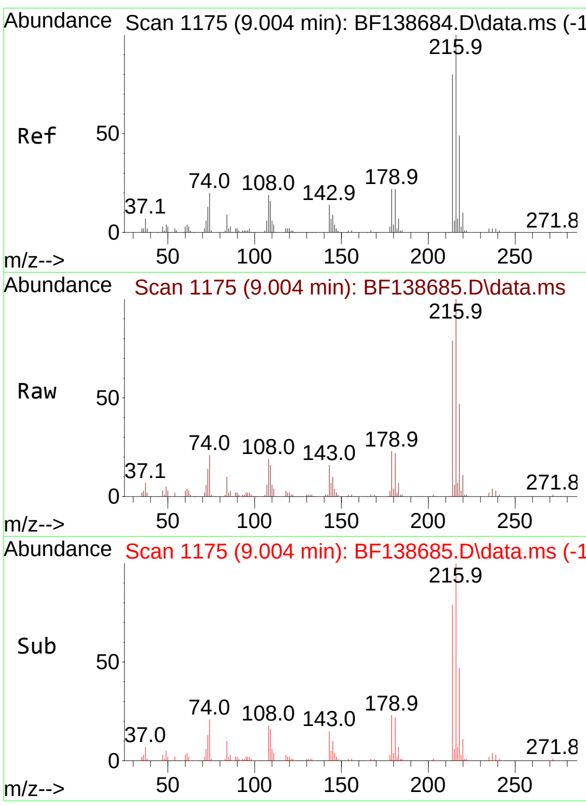


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min   Scan# 1
Delta R.T.   0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

Tgt Ion:164 Resp: 152426

Ion	Ratio	Lower	Upper
164	100		
162	99.3	79.4	119.0
160	44.1	35.1	52.7

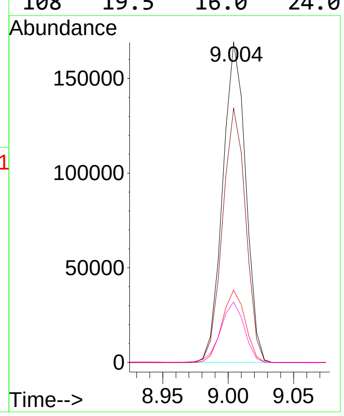




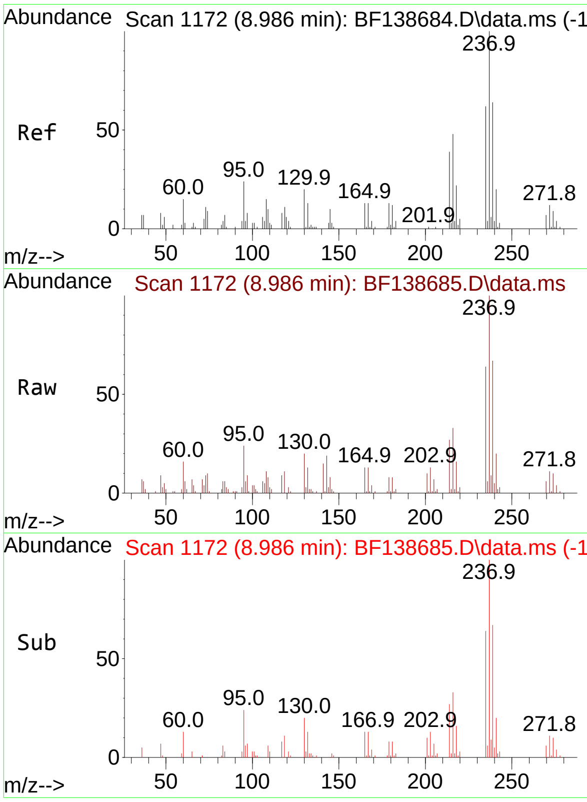
#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.789 ng
RT: 9.004 min   Scan# 1175
Delta R.T.   0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

Tgt Ion:216 Resp: 206585

Ion	Ratio	Lower	Upper
216	100		
214	79.5	63.9	95.9
179	22.5	17.8	26.6
108	19.5	16.0	24.0



ICAL Form

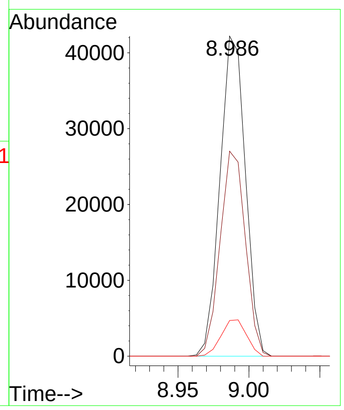


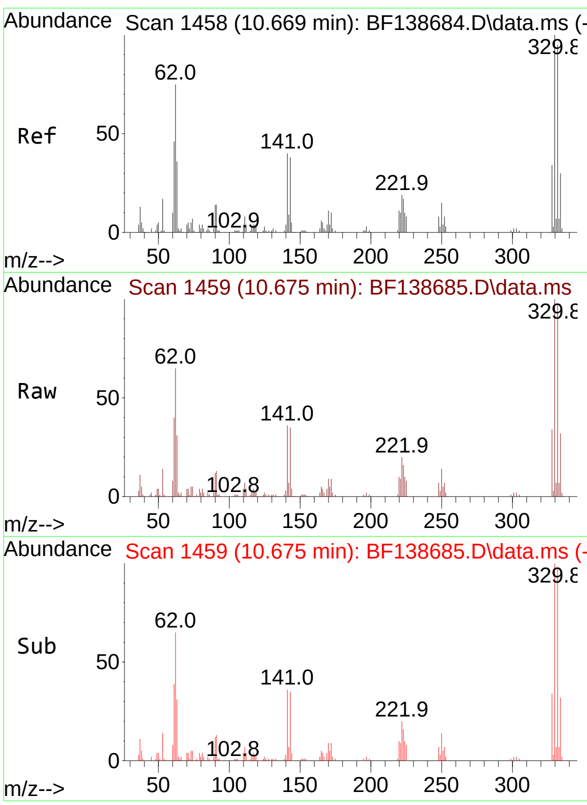
#41
Hexachlorocyclopentadiene
Concen: 49.894 ng
RT: 8.986 min   Scan# 1
Delta R.T.   0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 52700

Ion	Ratio	Lower	Upper
237	100		
235	64.1	41.8	81.8
272	11.1	0.0	32.2

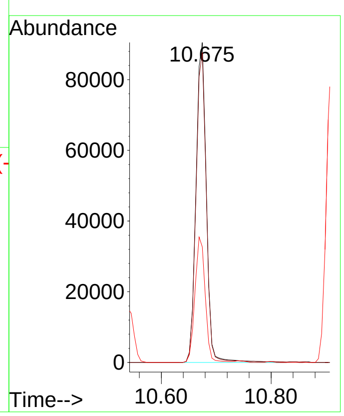




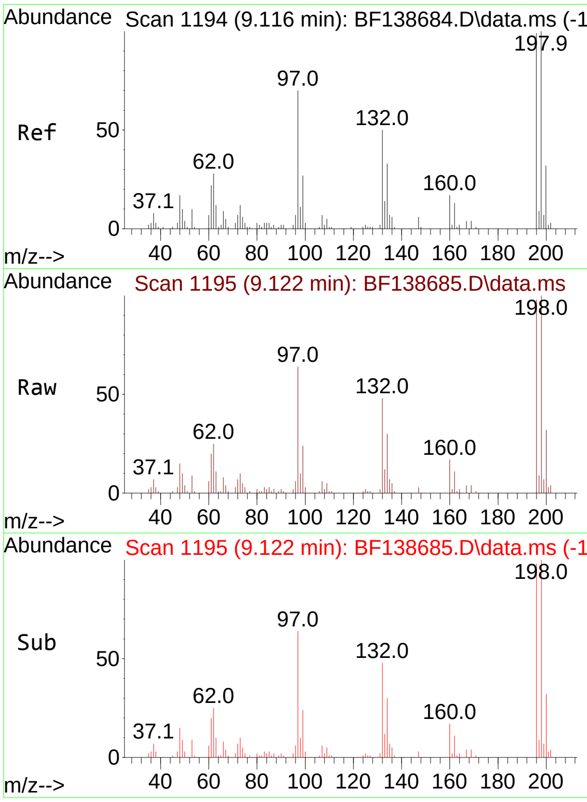
#42
2,4,6-Tribromophenol
Concen: 95.358 ng
RT: 10.675 min   Scan# 1459
Delta R.T.   0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

Tgt Ion:330 Resp: 119062

Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.4	114.6
141	38.7	31.1	46.7



ICAL Form

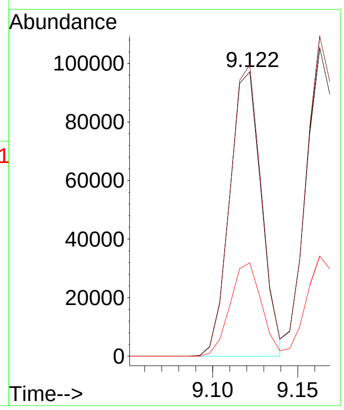


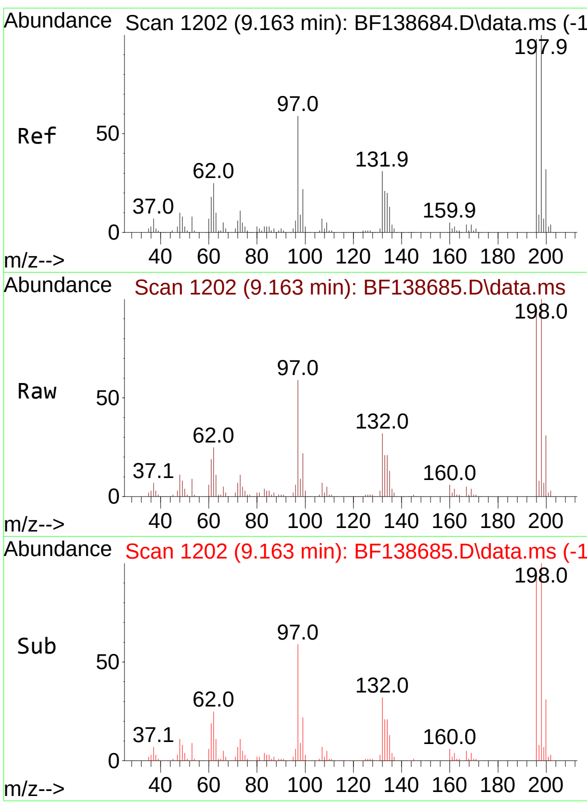
#43
2,4,6-Trichlorophenol
Concen: 48.741 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 125832

Ion	Ratio	Lower	Upper
196	100		
198	102.4	80.5	120.7
200	32.8	25.9	38.9

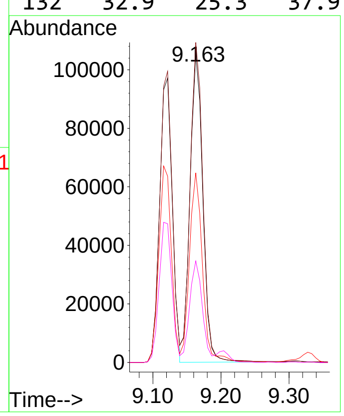




#44
2,4,5-Trichlorophenol
Concen: 48.726 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

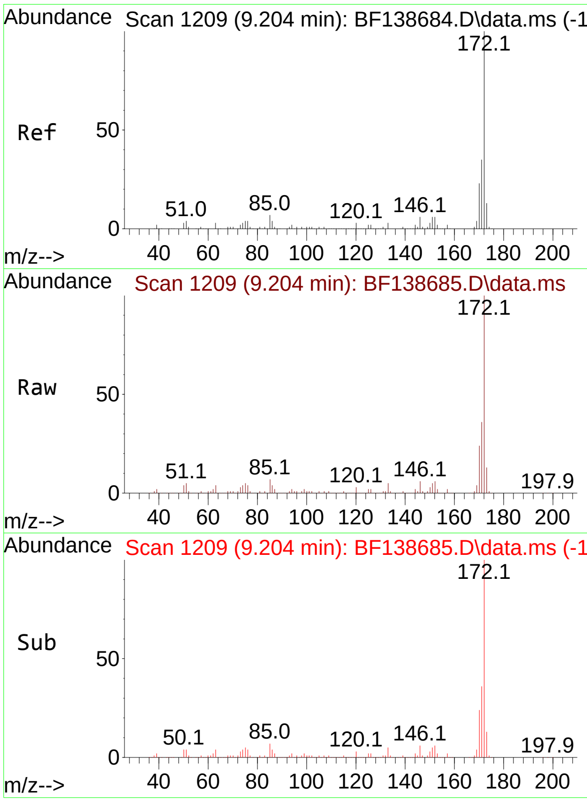
Tgt Ion:196 Resp: 137518

Ion	Ratio	Lower	Upper
196	100		
198	103.8	81.2	121.8
97	61.5	47.8	71.6
132	32.9	25.3	37.9



ICAL Form

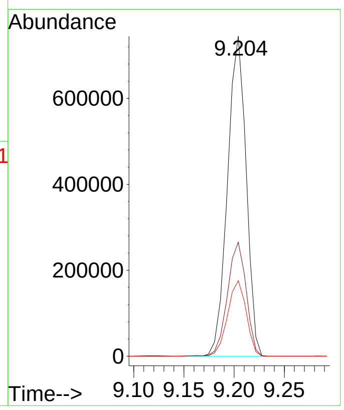
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

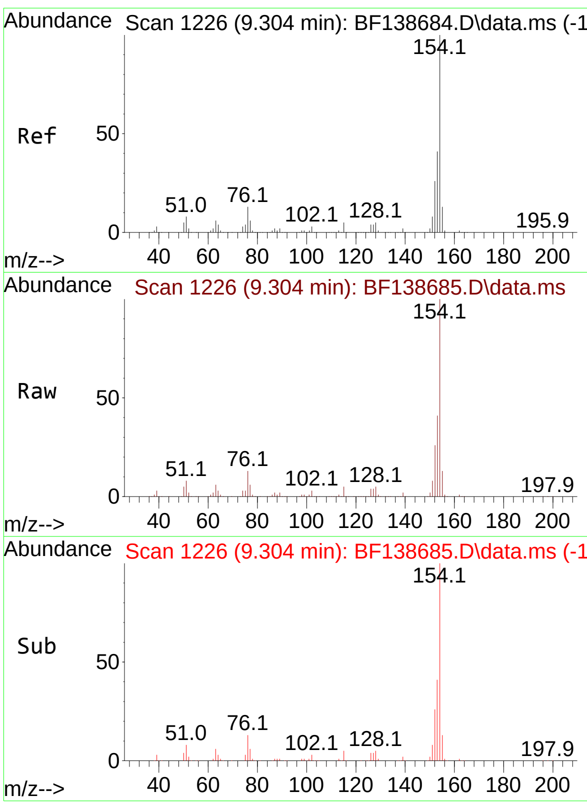


#45
2-Fluorobiphenyl
Concen: 94.693 ng
RT: 9.204 min   Scan# 1
Delta R.T.   0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

Tgt Ion:172 Resp: 960645

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.3	42.5
170	23.6	18.8	28.2

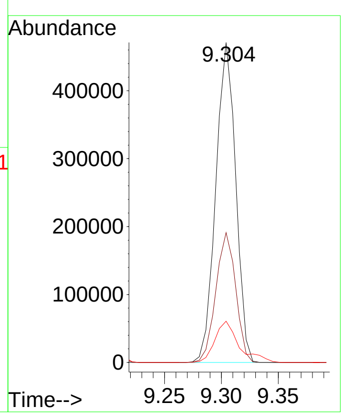




#46
1,1'-Biphenyl
Concen: 48.107 ng
RT: 9.304 min   Scan# 1226
Delta R.T.   0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

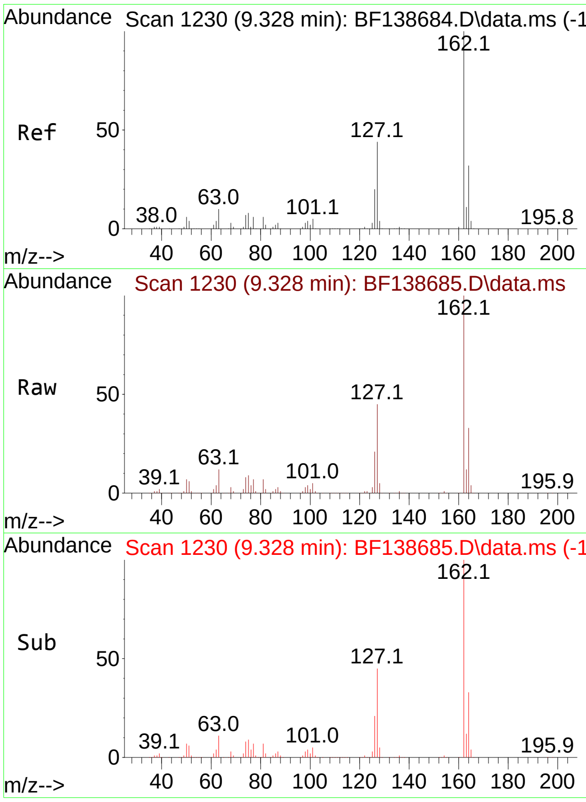
Tgt Ion:154 Resp: 574292

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.8	60.8
76	12.9	0.0	32.8



ICAL Form

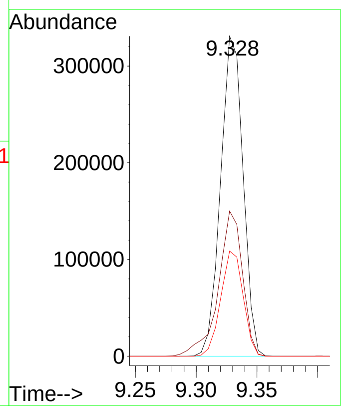
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

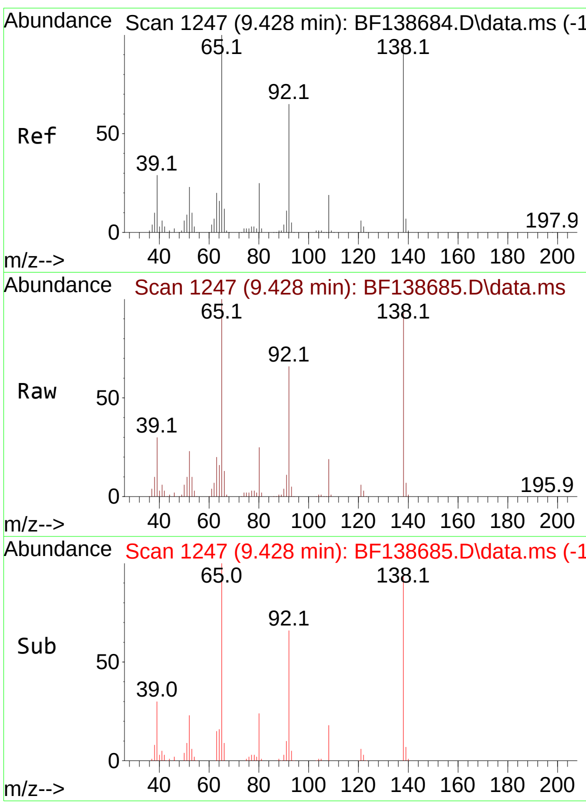


#47
2-Chloronaphthalene
Concen: 48.011 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:162 Resp: 426264

Ion	Ratio	Lower	Upper
162	100		
127	45.4	35.4	53.2
164	32.9	25.6	38.4

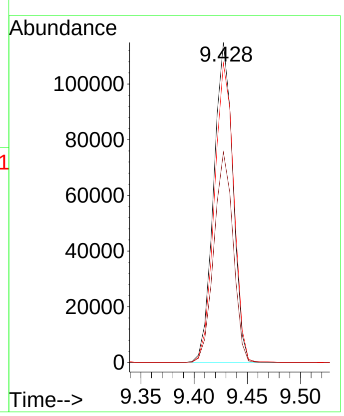




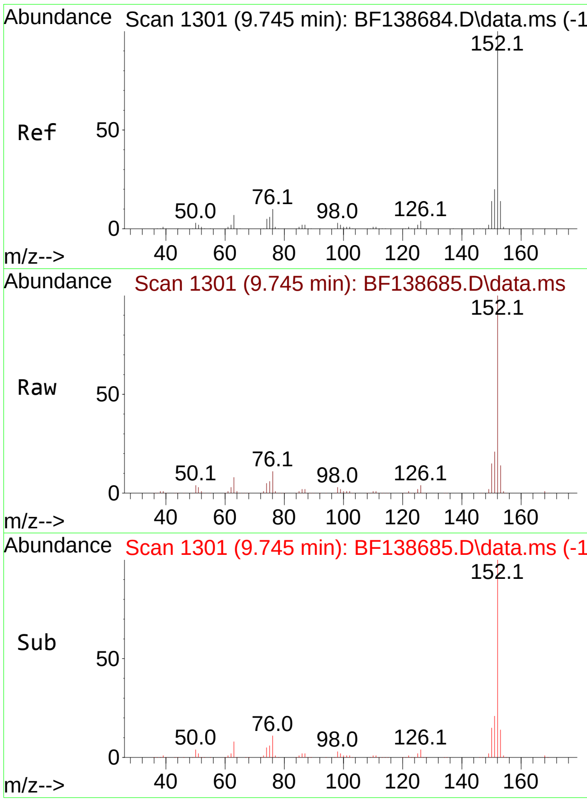
#48
2-Nitroaniline
Concen: 48.087 ng
RT: 9.428 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 65 Resp: 144739

Ion	Ratio	Lower	Upper
65	100		
92	65.7	52.0	78.0
138	93.5	76.2	114.4



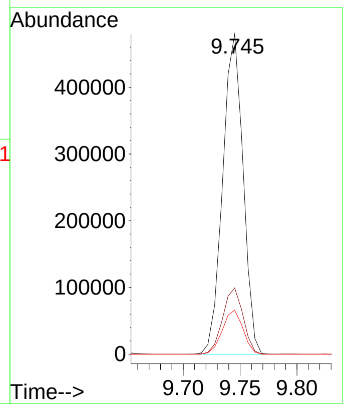
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

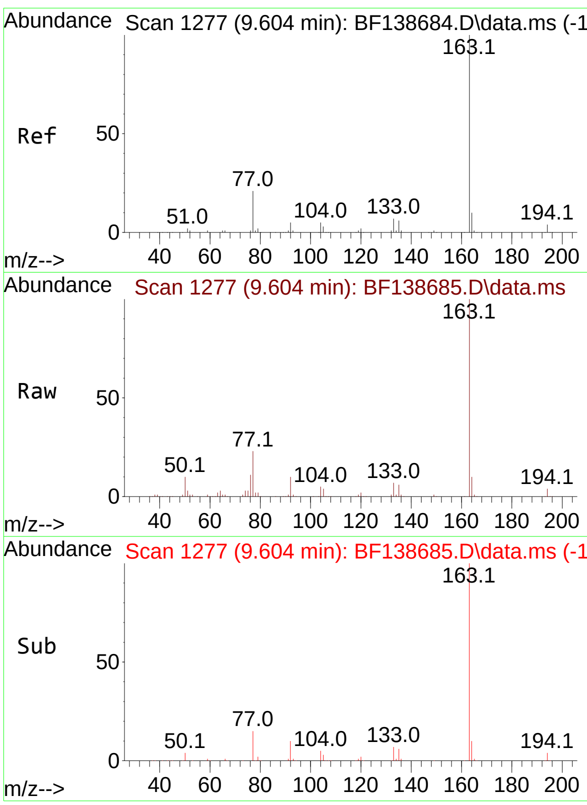


#49
Acenaphthylene
Concen: 47.605 ng
RT: 9.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:152 Resp: 599464

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.0	24.0
153	13.8	11.0	16.4

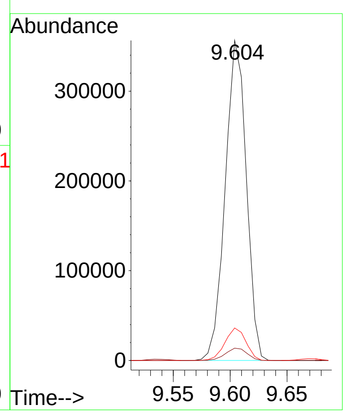


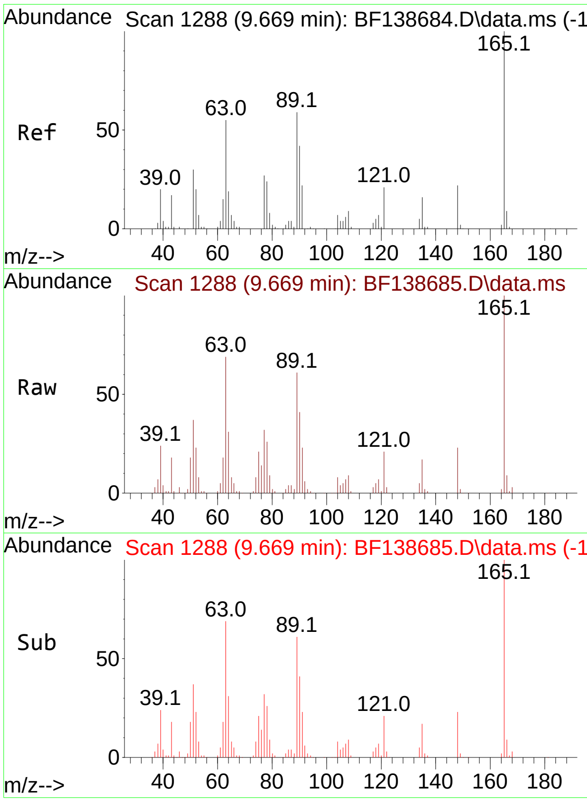


#50
Dimethylphthalate
Concen: 47.244 ng
RT: 9.604 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:163 Resp: 460459

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.2	7.8	11.8



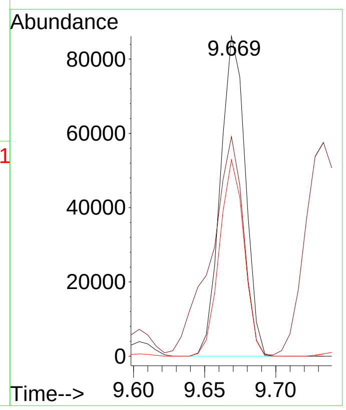


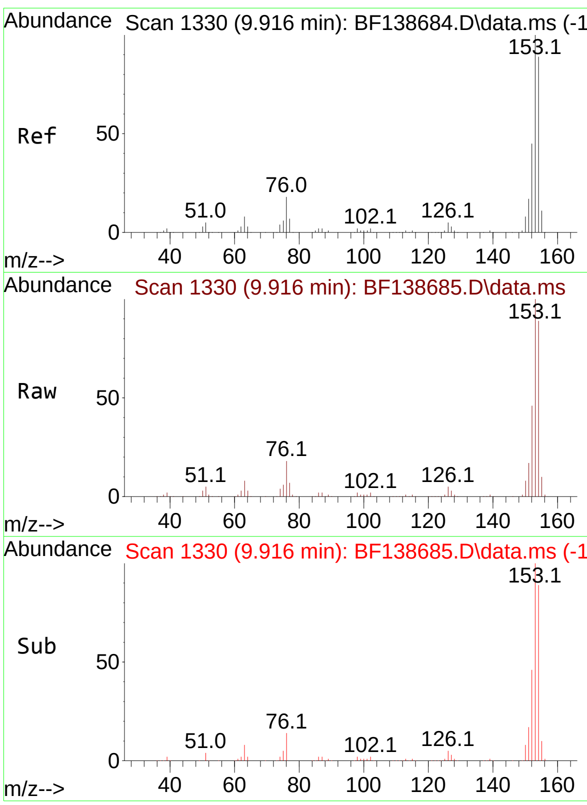
#51
2,6-Dinitrotoluene
Concen: 47.956 ng
RT: 9.669 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 105483

Ion	Ratio	Lower	Upper
165	100		
63	68.6	52.0	78.0
89	61.4	47.0	70.6

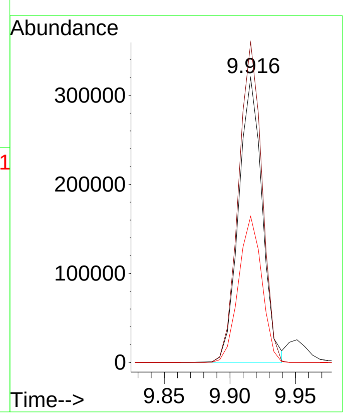


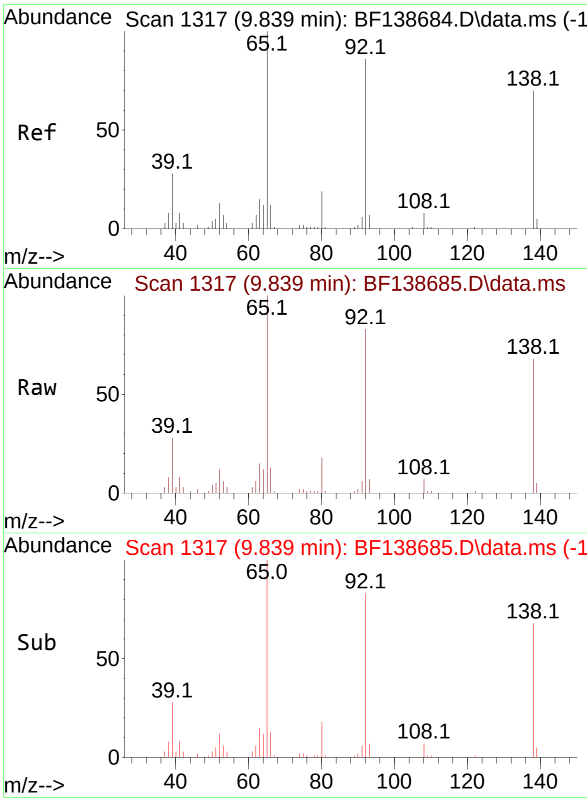


#52
Acenaphthene
Concen: 47.208 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:154 Resp: 399608

Ion	Ratio	Lower	Upper
154	100		
153	112.4	89.9	134.9
152	51.3	40.6	60.8



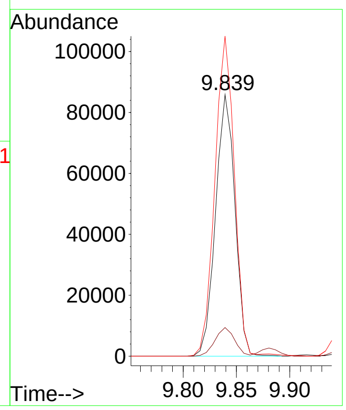


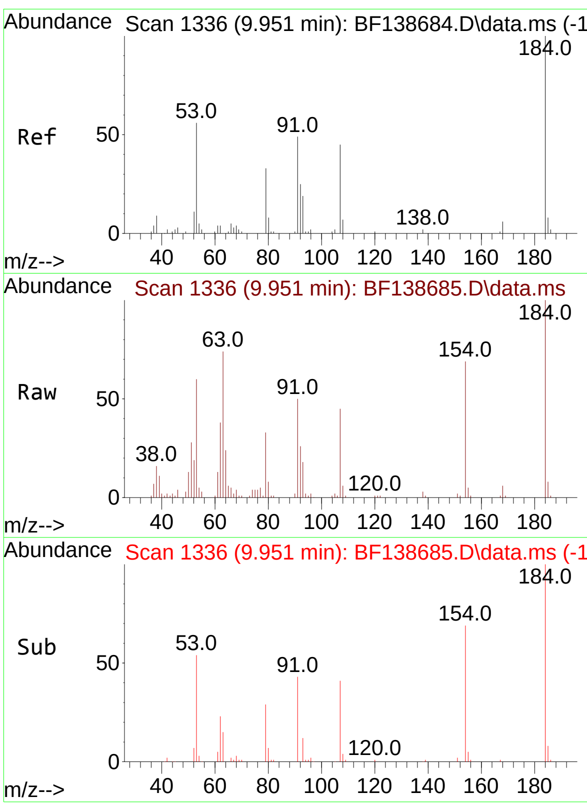
#53
3-Nitroaniline
Concen: 47.915 ng
RT: 9.839 min   Scan# 1
Delta R.T.   -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 108951

Ion	Ratio	Lower	Upper
138	100		
108	11.0	9.1	13.7
92	122.3	98.7	148.1

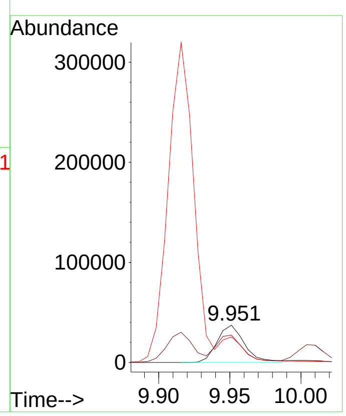




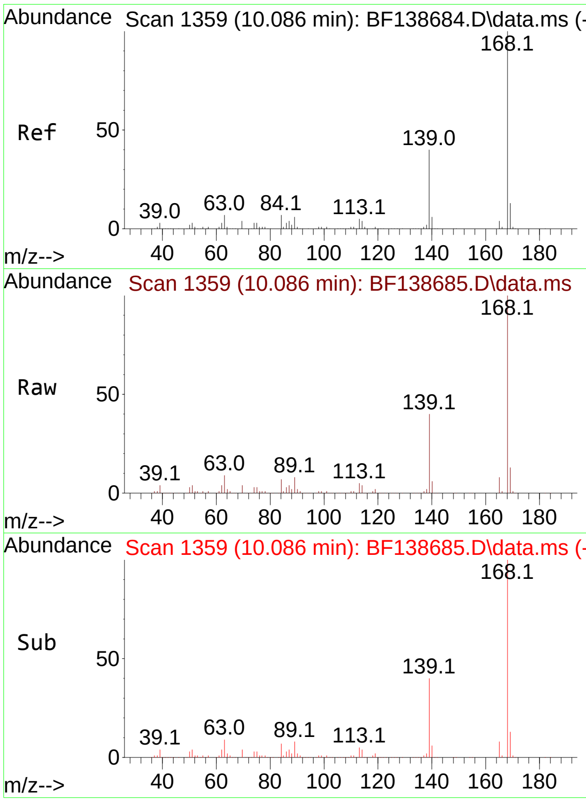
#54
2,4-Dinitrophenol
Concen: 49.361 ng
RT: 9.951 min   Scan# 1336
Delta R.T.   0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

Tgt Ion:184 Resp: 49980

Ion	Ratio	Lower	Upper
184	100		
63	73.5	57.5	86.3
154	68.7	51.7	77.5



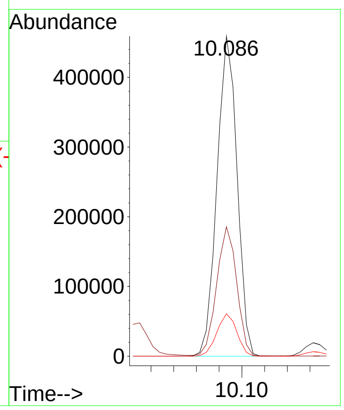
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

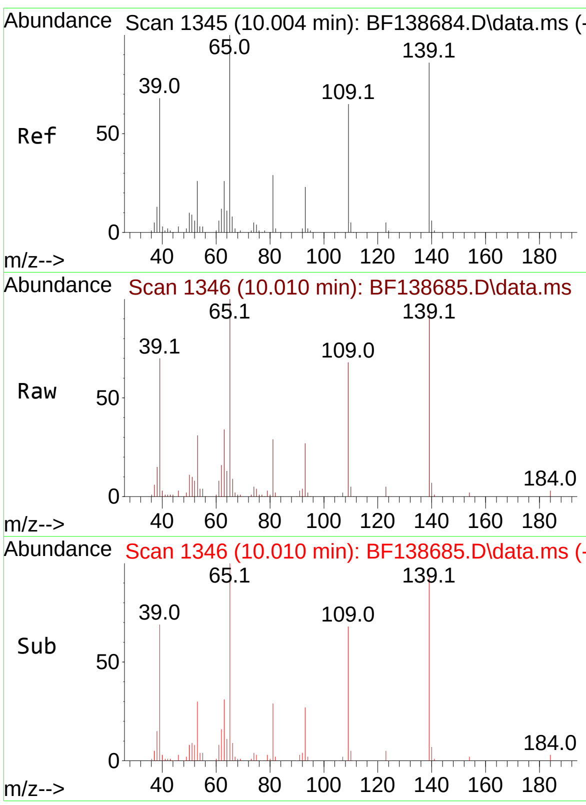


#55
Dibenzofuran
Concen: 47.333 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:168 Resp: 565582

Ion	Ratio	Lower	Upper
168	100		
139	40.4	32.6	49.0
169	13.2	10.7	16.1

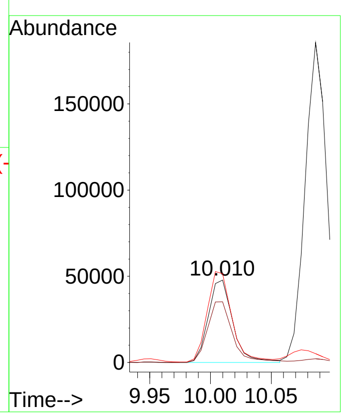




#56
4-Nitrophenol
Concen: 48.943 ng
RT: 10.010 min Scan# 1346
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

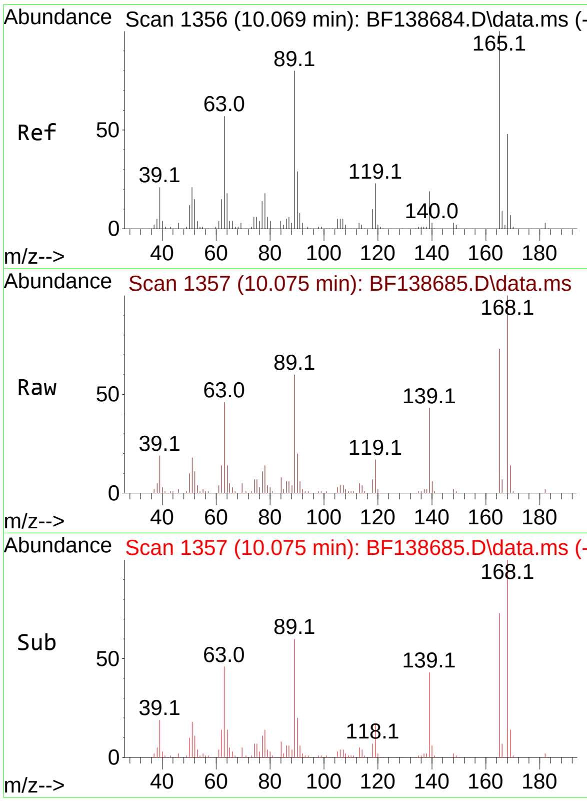
Tgt Ion:139 Resp: 66924

Ion	Ratio	Lower	Upper
139	100		
109	73.8	55.5	95.5
65	107.8	96.7	136.7



ICAL Form

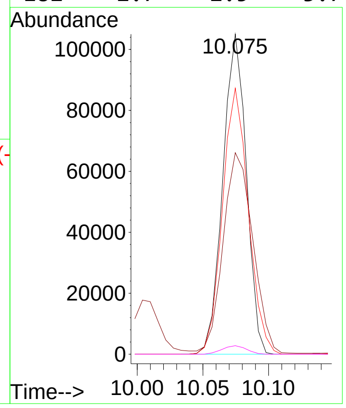
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

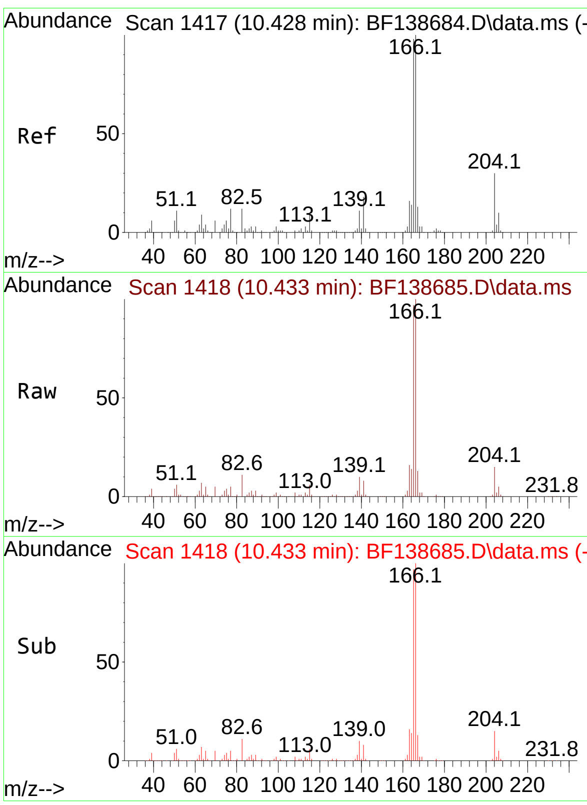


#57
2,4-Dinitrotoluene
Concen: 46.487 ng
RT: 10.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:165 Resp: 130457

Ion	Ratio	Lower	Upper
165	100		
63	63.0	46.3	69.5
89	83.1	64.2	96.4
182	2.7	2.5	3.7

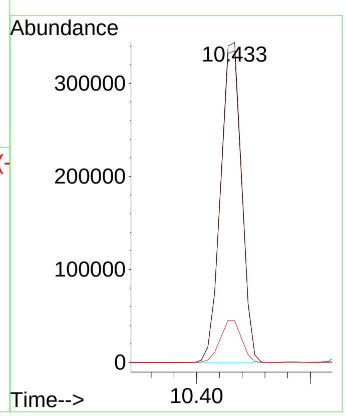




#58
Fluorene
Concen: 46.711 ng
RT: 10.433 min Scan# 1418
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

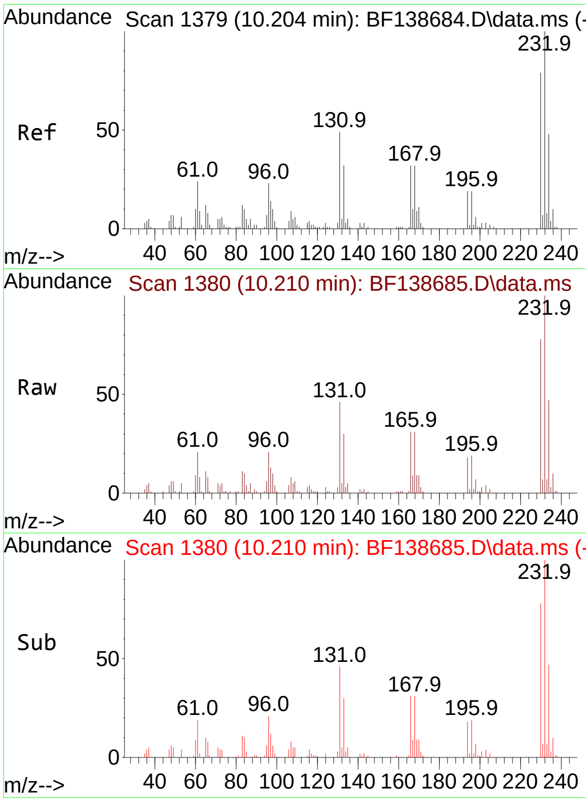
Tgt Ion:166 Resp: 444469

Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.4	117.6
167	13.1	10.6	16.0



ICAL Form

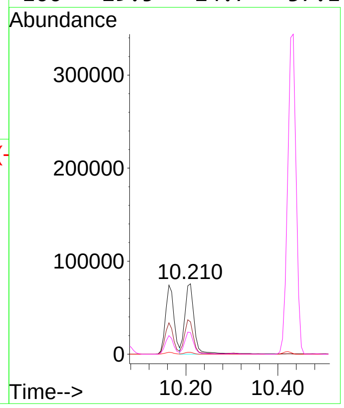
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

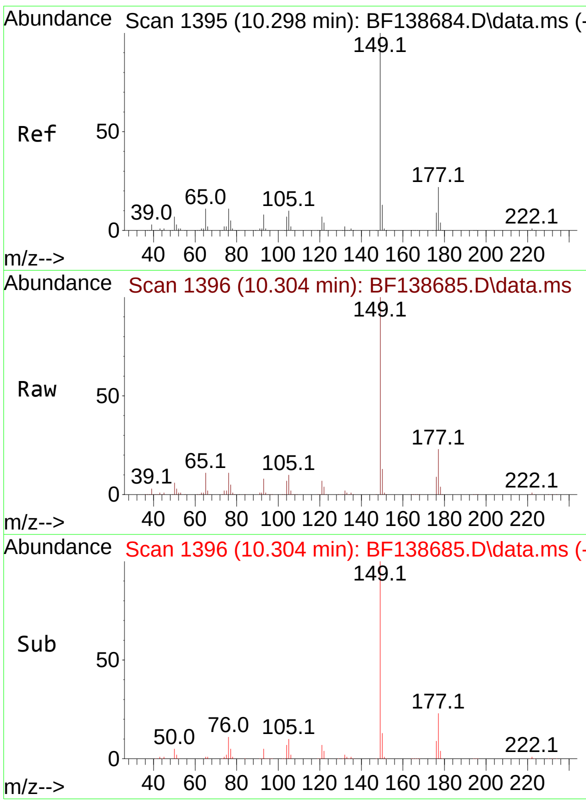


#59
2,3,4,6-Tetrachlorophenol
Concen: 49.402 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:232 Resp: 106594

Ion	Ratio	Lower	Upper
232	100		
131	46.1	37.0	55.4
130	2.5	2.0	3.0
166	29.5	24.7	37.1

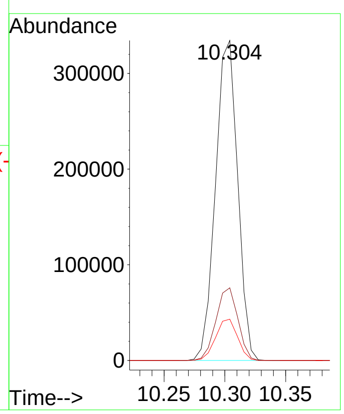




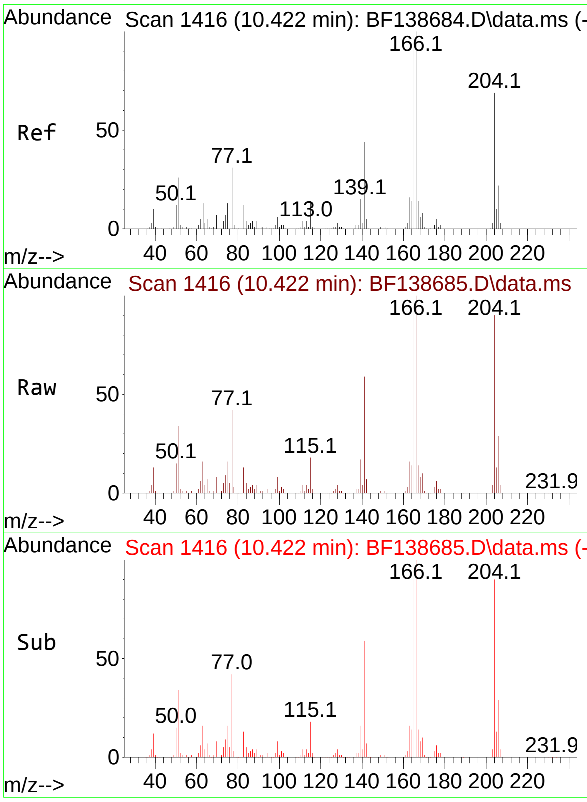
#60
Diethylphthalate
Concen: 45.886 ng
RT: 10.304 min Scan# 1396
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:149 Resp: 424041

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.8	26.8
150	12.9	10.1	15.1



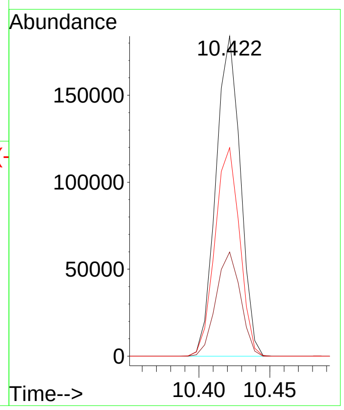
Instrument : BNA_F
ClientSampleId : SSTDICC050

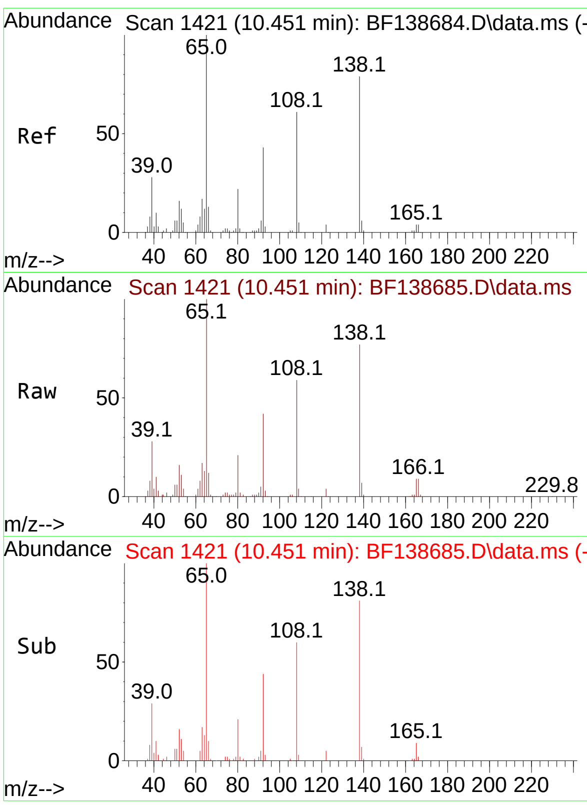


#61
4-Chlorophenyl-phenylether
Concen: 47.209 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:204 Resp: 220930

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.1	39.1
141	65.2	51.4	77.0

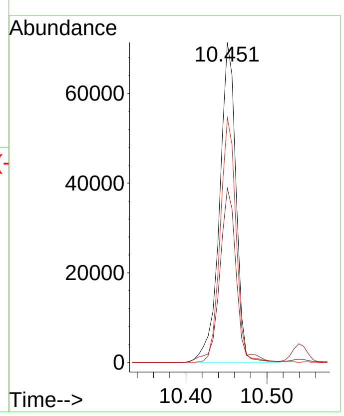




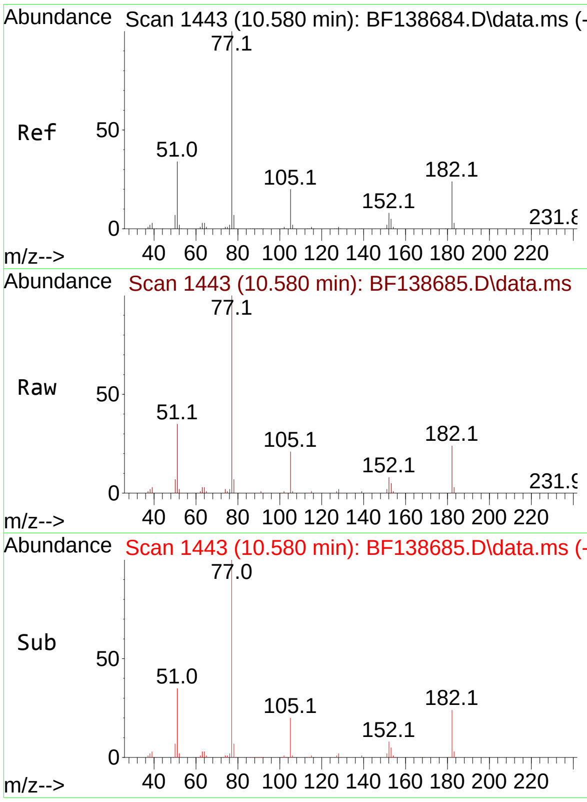
#62
4-Nitroaniline
Concen: 46.819 ng
RT: 10.451 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:138 Resp: 101171

Ion	Ratio	Lower	Upper
138	100		
92	54.4	34.2	74.2
108	76.5	56.2	96.2



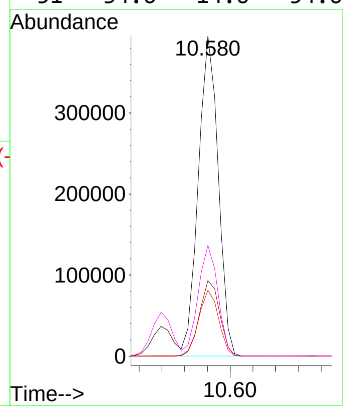
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

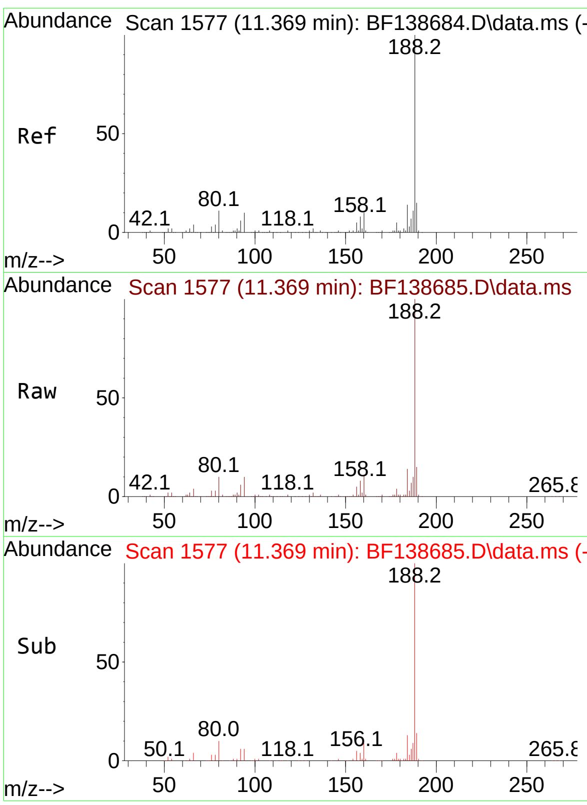


#63
Azobenzene
Concen: 46.818 ng
RT: 10.580 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 77 Resp: 479859

Ion	Ratio	Lower	Upper
77	100		
182	23.6	3.4	43.4
105	20.6	0.2	40.2
51	34.6	14.6	54.6

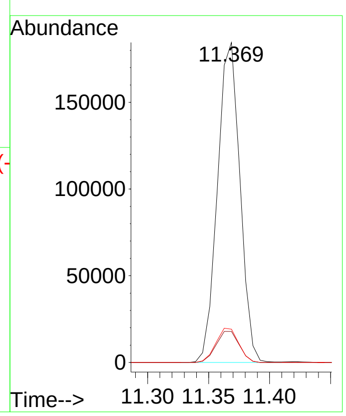




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

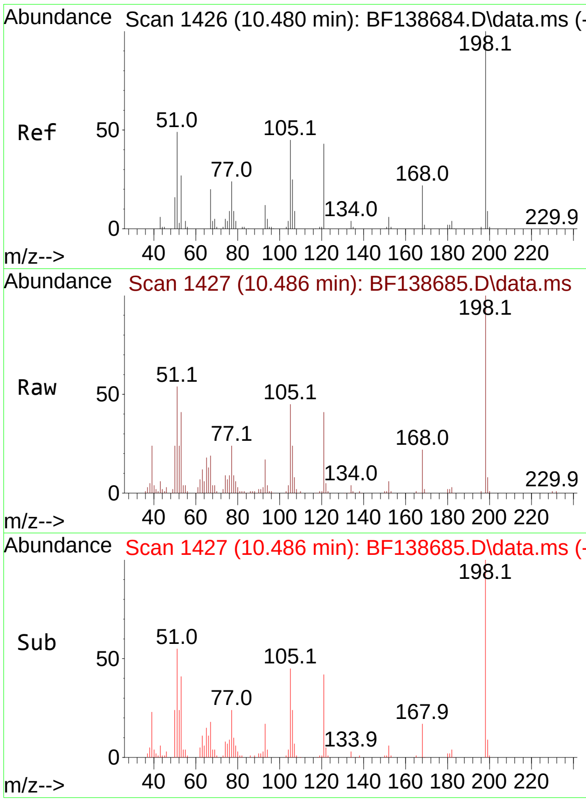
Tgt Ion:188 Resp: 237060

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.6	11.4
80	10.4	8.6	12.8



ICAL Form

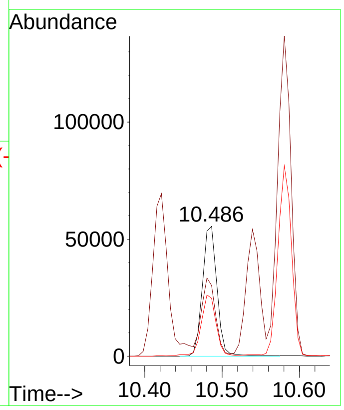
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

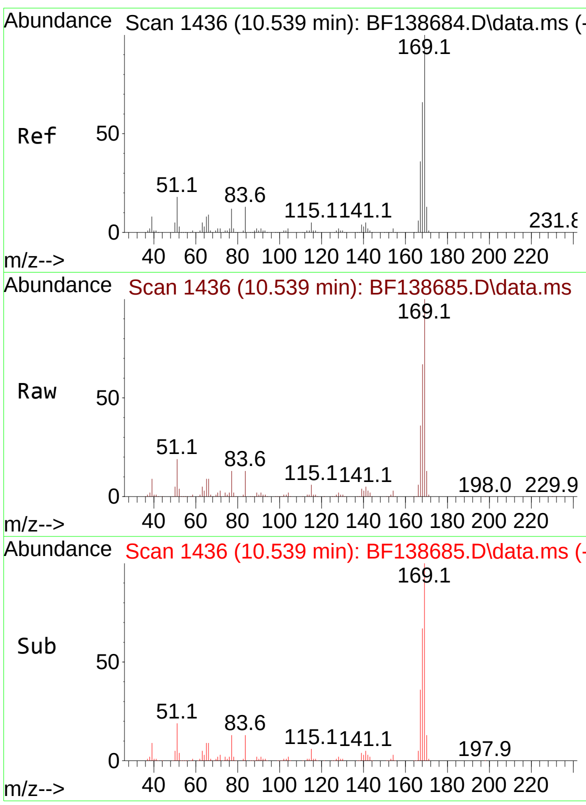


#65
4,6-Dinitro-2-methylphenol
Concen: 50.244 ng
RT: 10.486 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:198 Resp: 72667

Ion	Ratio	Lower	Upper
198	100		
51	54.4	39.9	79.9
105	44.7	26.1	66.1

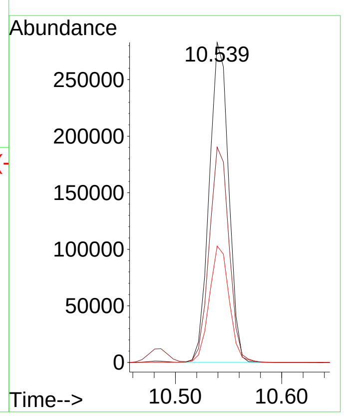




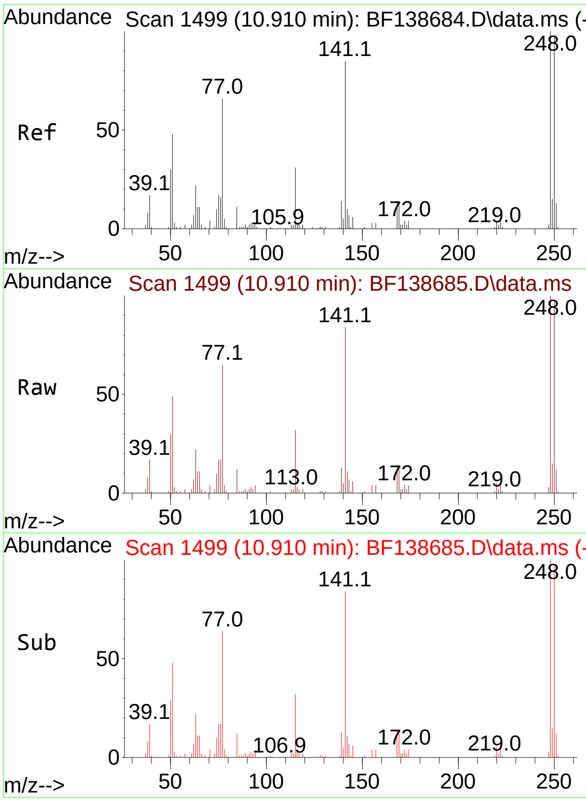
#66
n-Nitrosodiphenylamine
Concen: 48.503 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:169 Resp: 359408

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.0	79.6
167	36.4	29.0	43.6



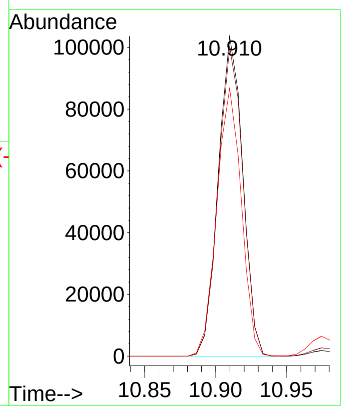
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

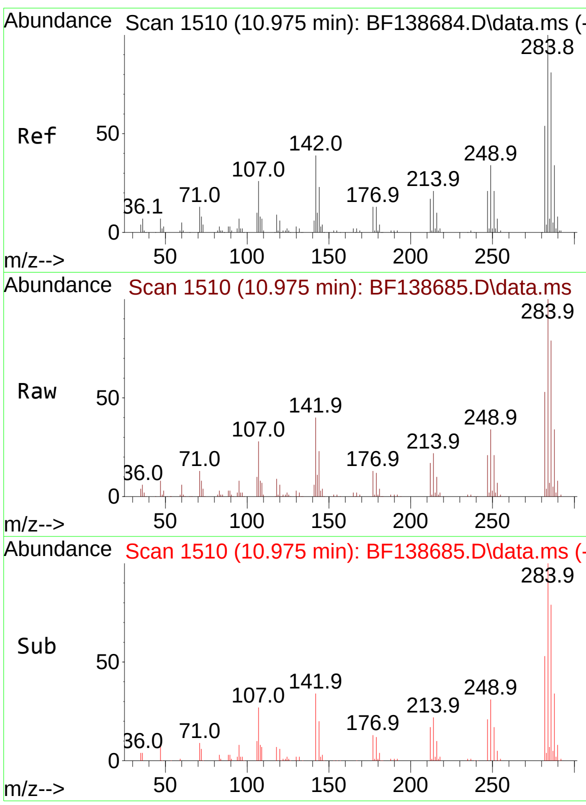


#67
4-Bromophenyl-phenylether
Concen: 48.653 ng
RT: 10.910 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:248 Resp: 124874

Ion	Ratio	Lower	Upper
248	100		
250	96.6	77.7	116.5
141	83.7	68.0	102.0

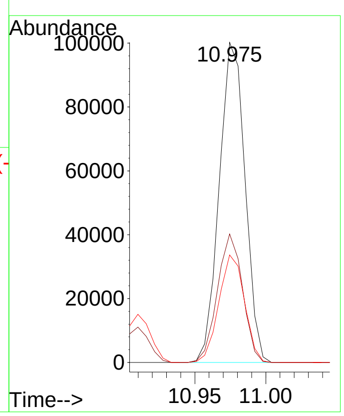




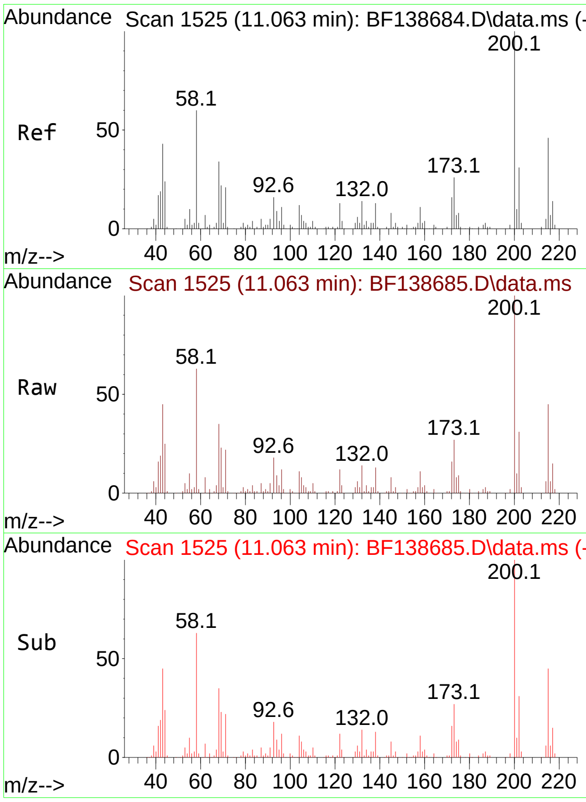
#68
Hexachlorobenzene
Concen: 47.827 ng
RT: 10.975 min Scan# 1510
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:284 Resp: 126744

Ion	Ratio	Lower	Upper
284	100		
142	40.2	31.3	46.9
249	33.6	27.2	40.8



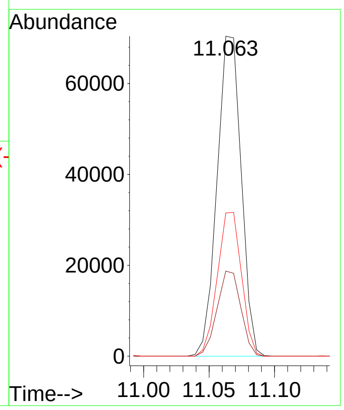
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

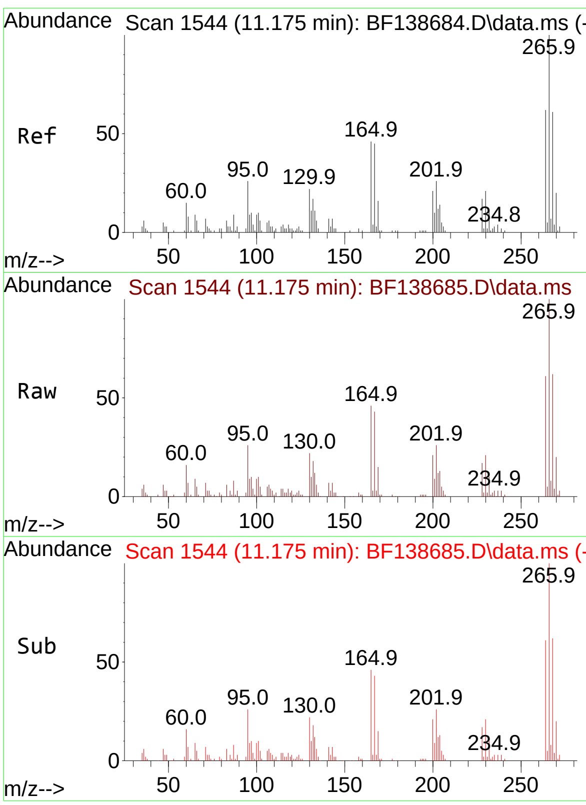


#69
Atrazine
Concen: 47.380 ng
RT: 11.063 min Scan# 1!
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:200 Resp: 90580

Ion	Ratio	Lower	Upper
200	100		
173	26.6	6.0	46.0
215	44.8	26.1	66.1

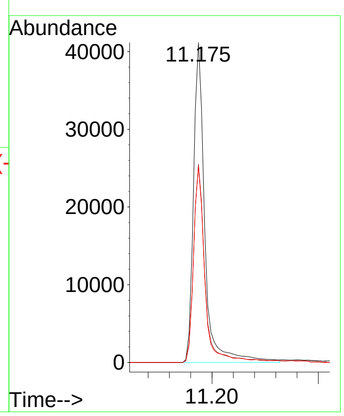




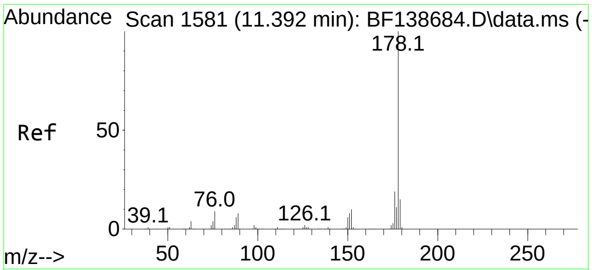
#70
Pentachlorophenol
Concen: 51.390 ng
RT: 11.175 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

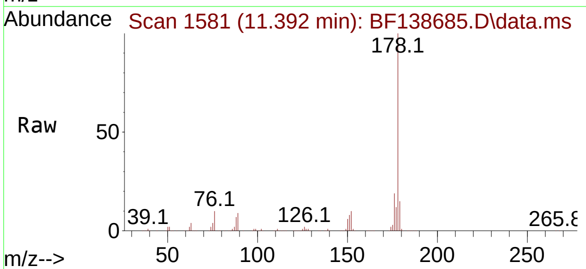
Tgt Ion:266 Resp: 61385

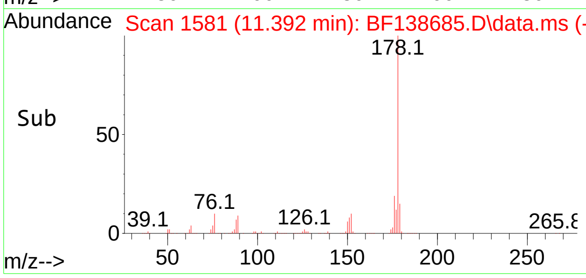
Ion	Ratio	Lower	Upper
266	100		
268	61.9	49.2	73.8
264	61.2	49.8	74.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050



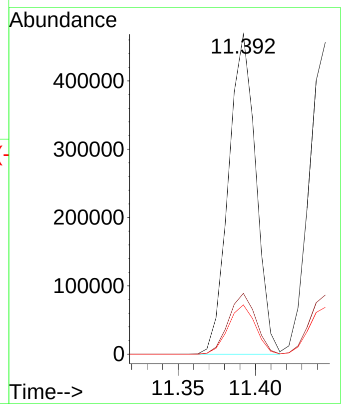


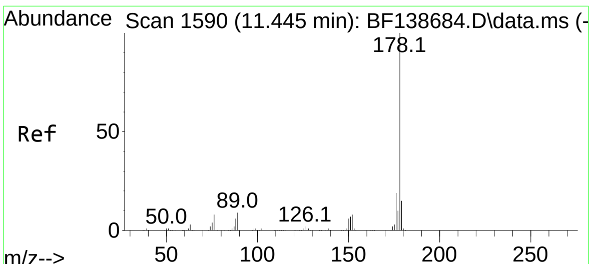


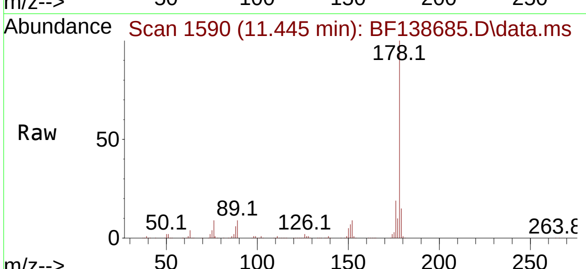
#71
Phenanthrene
Concen: 47.109 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

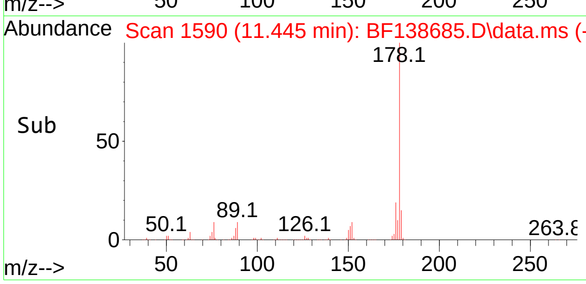
Tgt Ion:178 Resp: 575040

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.4	12.2	18.2





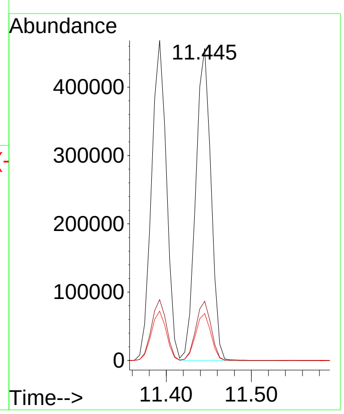


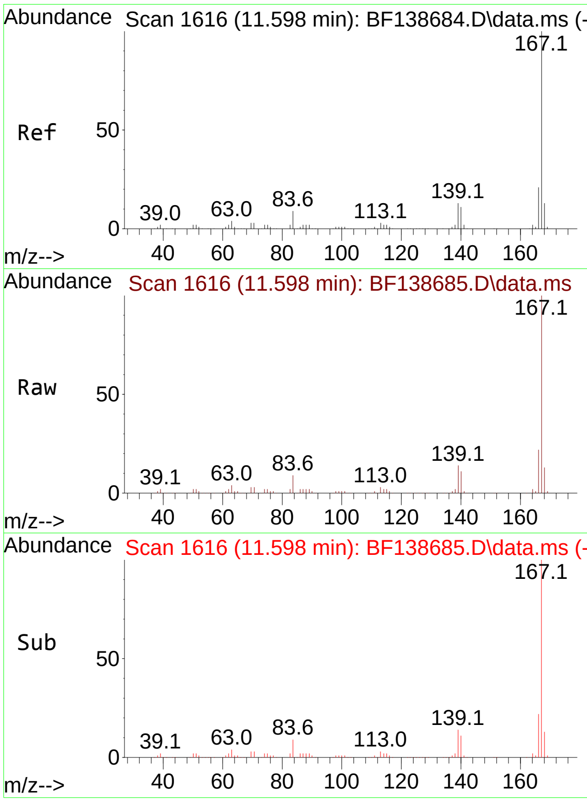


#72
Anthracene
Concen: 47.539 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:178 Resp: 571666

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.9	22.3
179	15.0	12.4	18.6



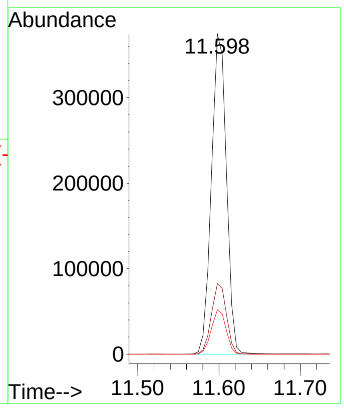


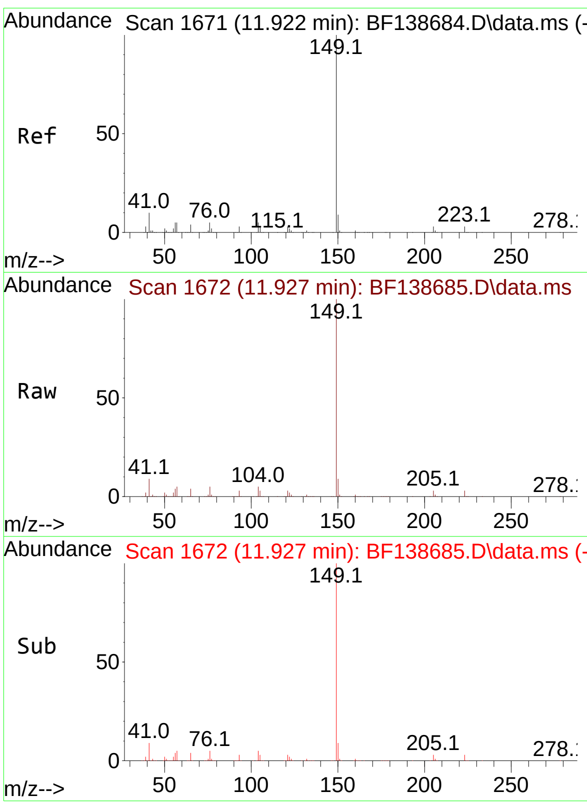
#73
Carbazole
Concen: 46.275 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 480092

Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.2	25.8
139	13.9	10.6	16.0

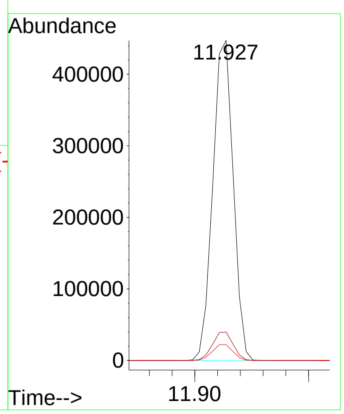




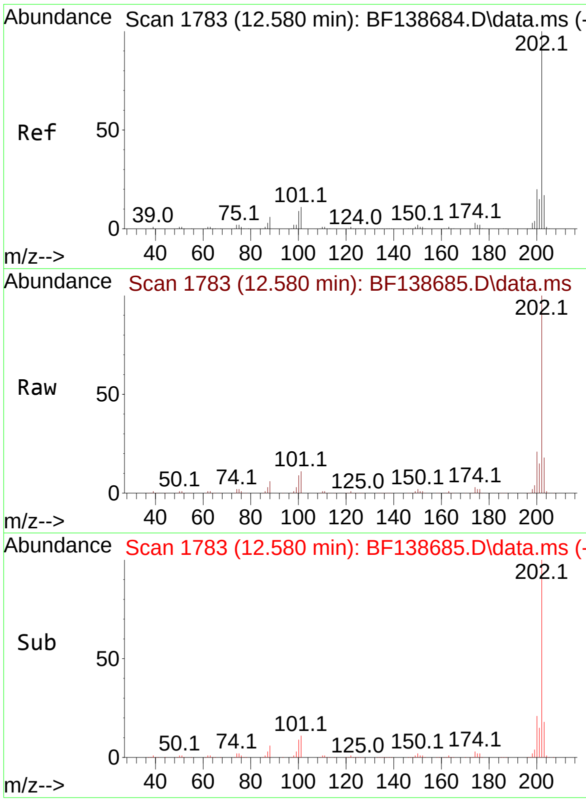
#74
Di-n-butylphthalate
Concen: 47.956 ng
RT: 11.927 min Scan# 1672
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:149 Resp: 559303

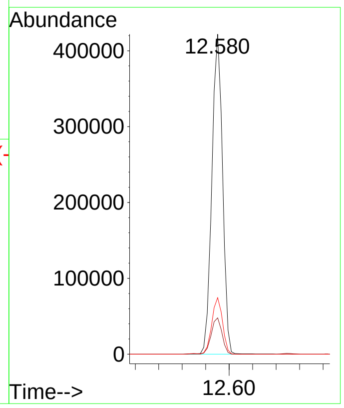
Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.4	11.0
104	5.0	4.1	6.1

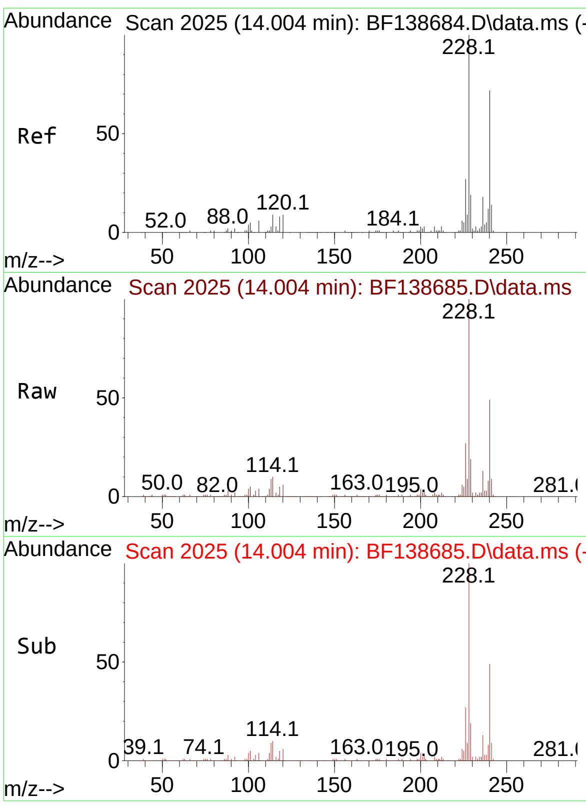


Instrument :
BNA_F
ClientSampleId :
SSTDICC050

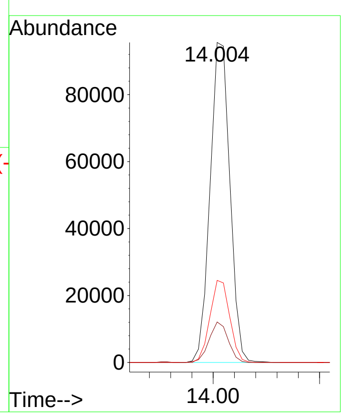



```
#75
Fluoranthene
Concen:   46.772 ng
RT:  12.580 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   BF138685.D
Acq: 30 Jul 2024  15:27

Tgt Ion:202 Resp:  533004
Ion  Ratio  Lower  Upper
202  100
101   11.4    0.0   31.2
203   17.7    0.0   37.3
```



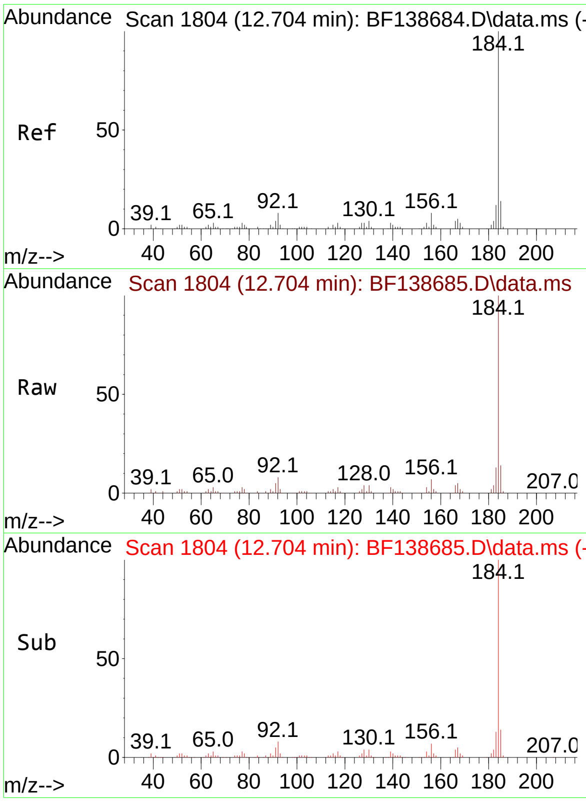



```
#76
Chrysene-d12
Concen:   20.000 ng
RT:  14.004 min  Scan# 2025
Delta R.T.  -0.000 min
Lab File:   BF138685.D
Acq: 30 Jul 2024  15:27

Tgt Ion:240 Resp:  124208
Ion  Ratio  Lower  Upper
240  100
120   12.7   10.2   15.4
236   25.7   19.8   29.8
```



ICAL Form

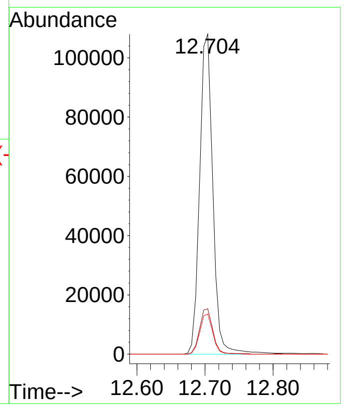
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

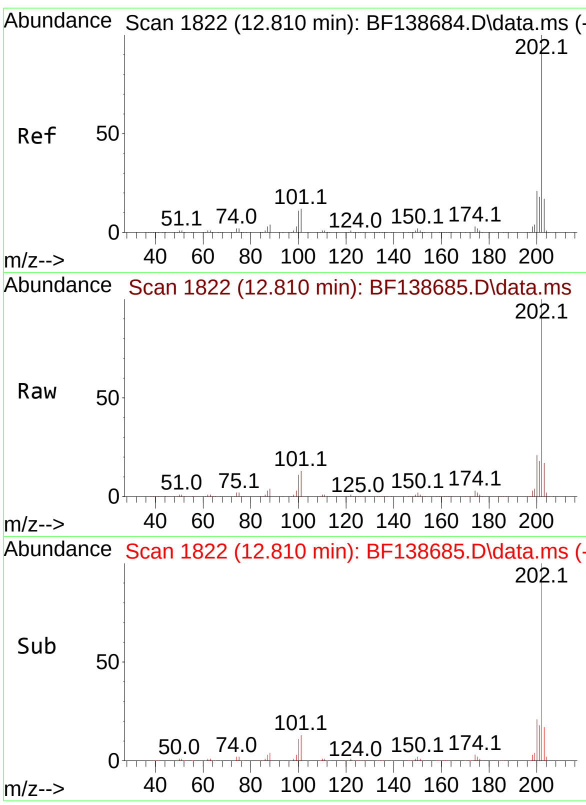


#77
Benzidine
Concen: 49.129 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:184 Resp: 145955

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.1	16.7
183	12.6	9.6	14.4

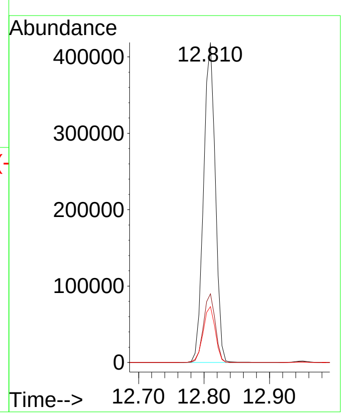




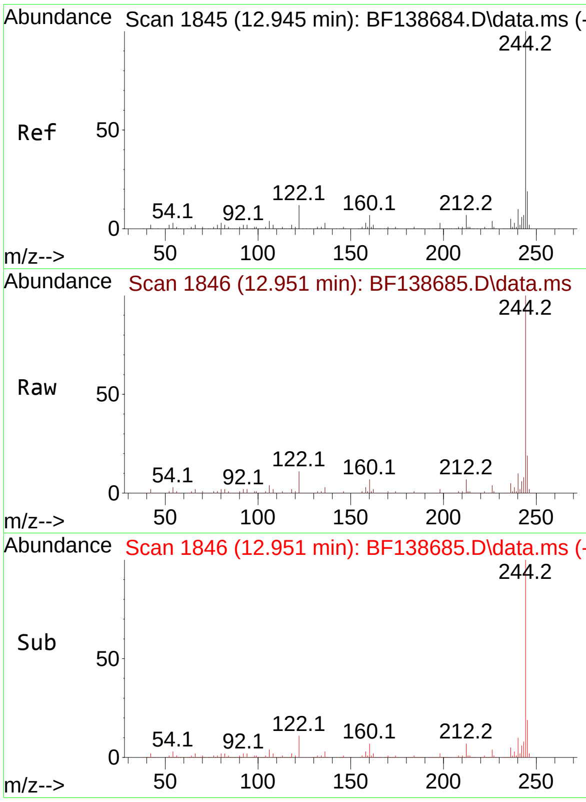
#78
Pyrene
Concen: 44.974 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:202 Resp: 525950

Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.8	25.2
203	17.5	13.8	20.6



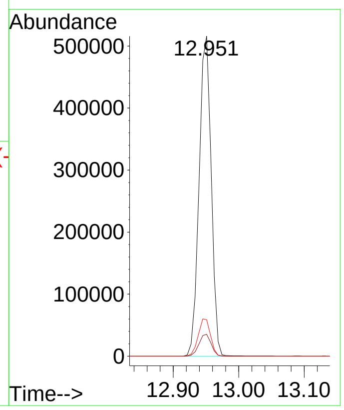
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

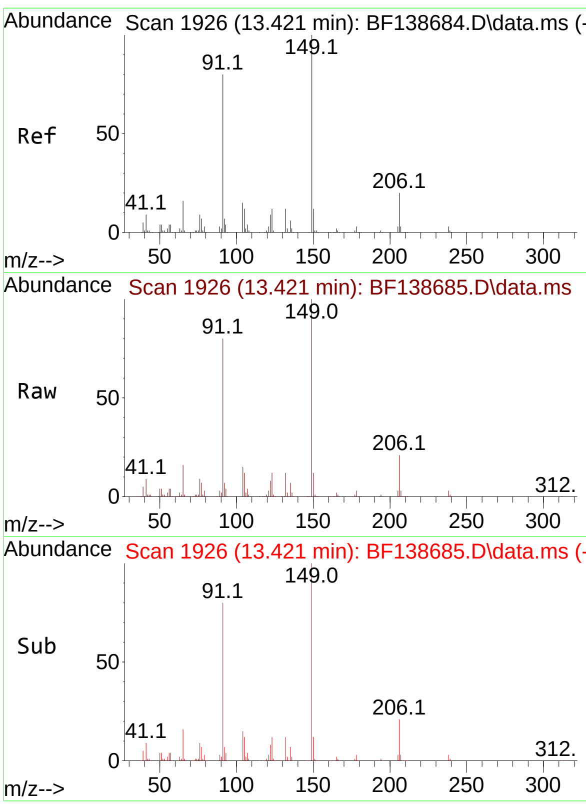


#79
Terphenyl-d14
Concen: 89.751 ng
RT: 12.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

Tgt Ion:244 Resp: 665833

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	11.4	9.6	14.4

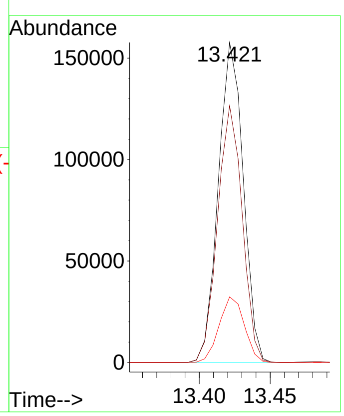




#80
Butylbenzylphthalate
Concen: 51.575 ng
RT: 13.421 min Scan# 1926
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

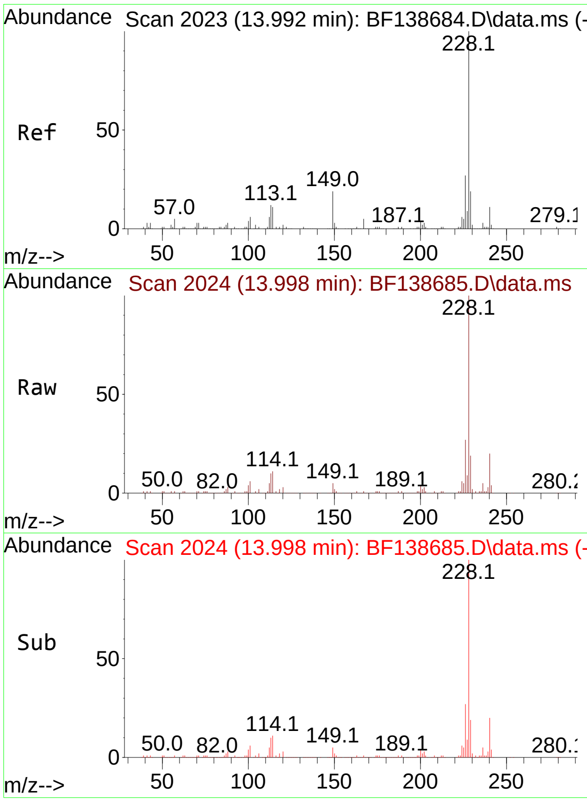
Tgt Ion:149 Resp: 193143

Ion	Ratio	Lower	Upper
149	100		
91	80.2	63.7	95.5
206	20.5	16.2	24.2



ICAL Form

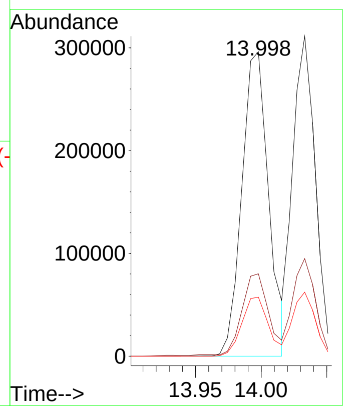
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

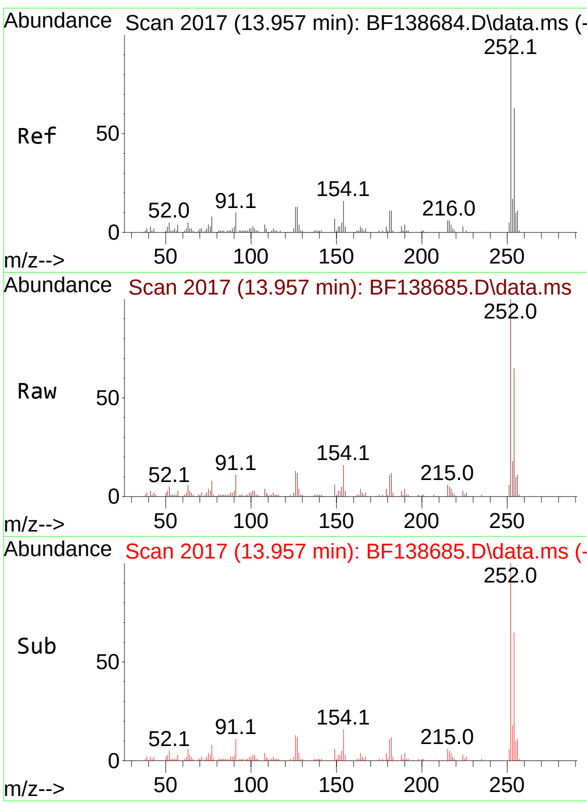


#81
Benzo(a)anthracene
Concen: 49.040 ng
RT: 13.998 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:228 Resp: 419449

Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.1	33.1
229	19.4	15.4	23.0

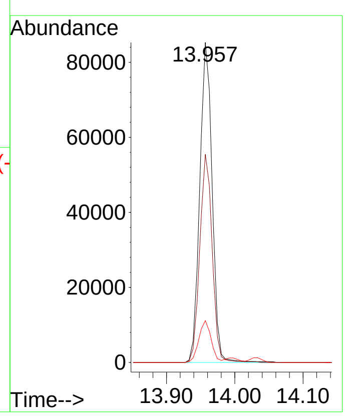




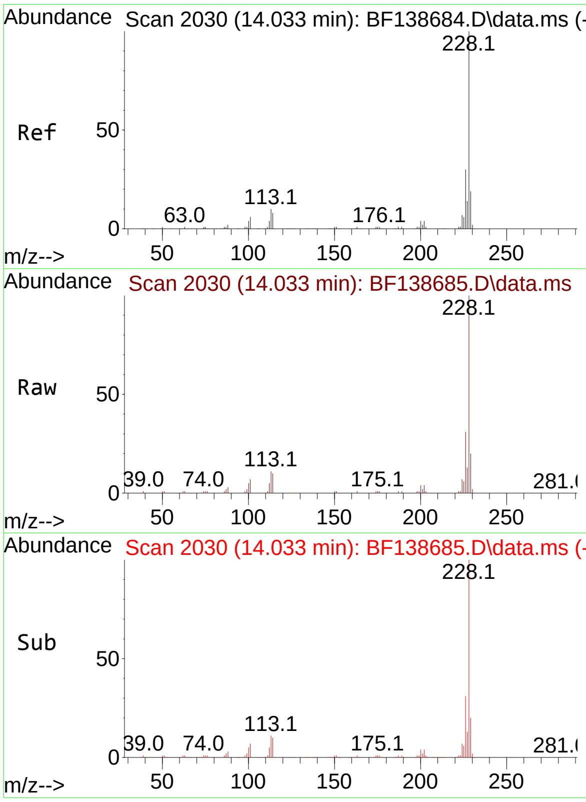
#82
3,3'-Dichlorobenzidine
Concen: 49.088 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:252 Resp: 107444

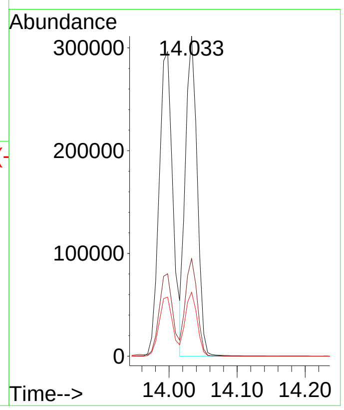
Ion	Ratio	Lower	Upper
252	100		
254	65.0	50.8	76.2
126	13.1	10.2	15.2

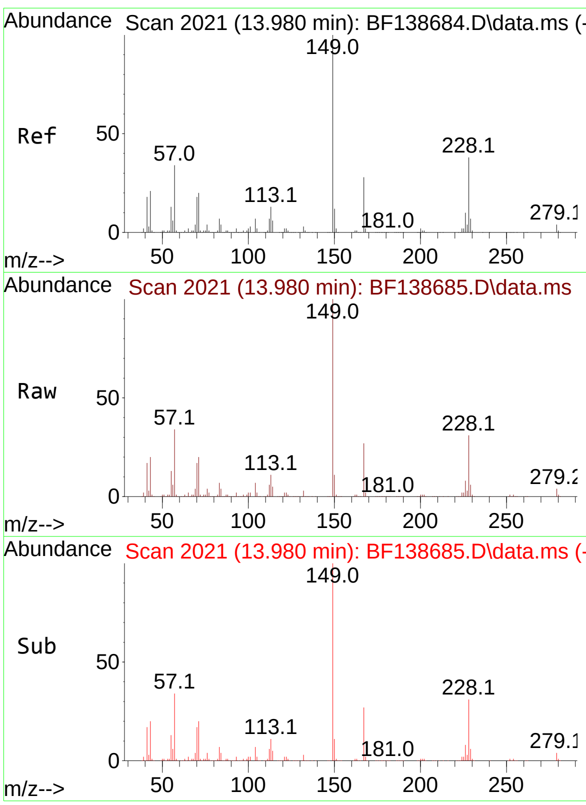


Instrument :
BNA_F
ClientSampleId :
SSTDICC050

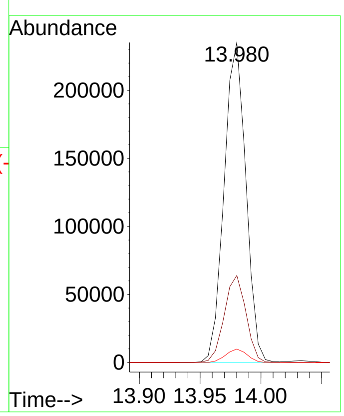



```
#83
Chrysene
Concen:   48.391 ng
RT:  14.033 min  Scan# 2
Delta R.T.  0.000 min
Lab File:   BF138685.D
Acq: 30 Jul 2024  15:27

Tgt Ion:228 Resp:  373417
Ion  Ratio  Lower  Upper
228  100
226   30.5   23.7   35.5
229   20.0   15.0   22.6
```

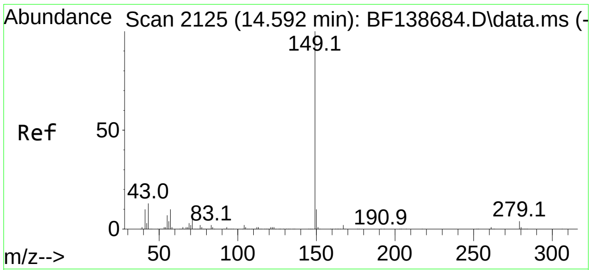


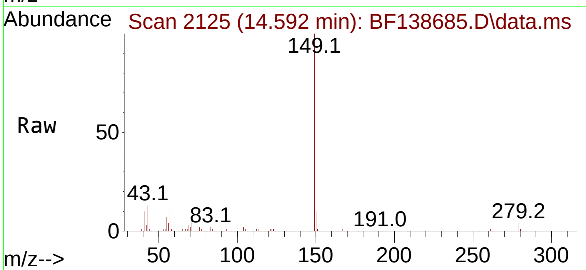


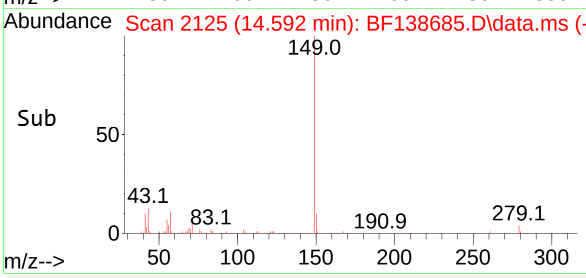

```
#84
Bis(2-ethylhexyl)phthalate
Concen:   53.519 ng
RT:  13.980 min  Scan# 2021
Delta R.T.  0.000 min
Lab File:   BF138685.D
Acq: 30 Jul 2024  15:27

Tgt Ion:149 Resp:  293490
Ion  Ratio  Lower  Upper
149  100
167   27.2   22.2   33.4
279    4.2    3.4    5.0
```



Instrument :
BNA_F
ClientSampleId :
SSTDICC050



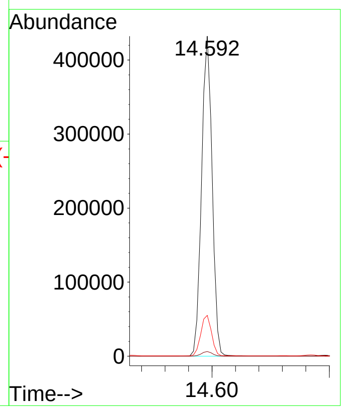


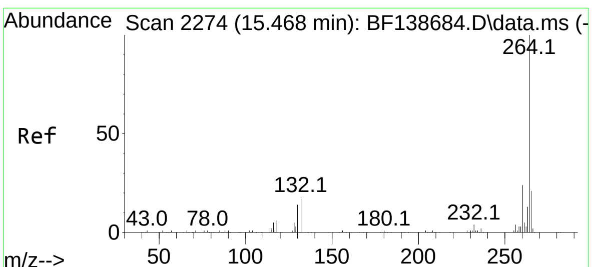


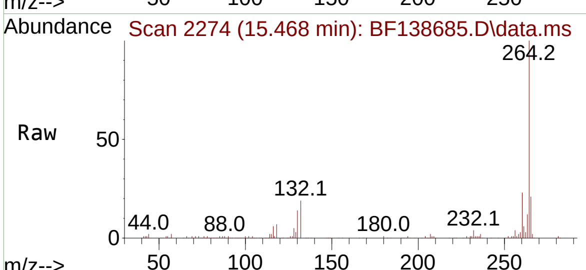
#85
Di-n-octyl phthalate
Concen: 53.306 ng
RT: 14.592 min   Scan# 2
Delta R.T.   -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

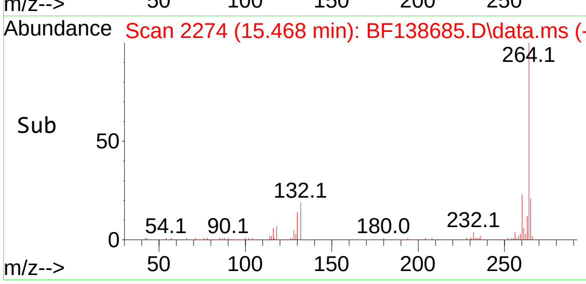
Tgt Ion:149 Resp: 540838

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.4	2.0
43	13.0	10.4	15.6





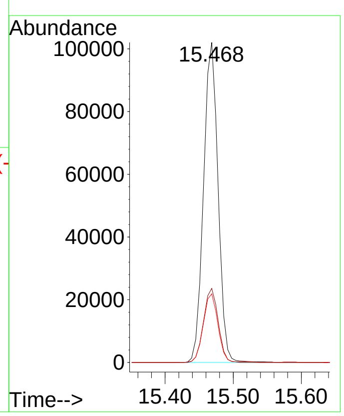




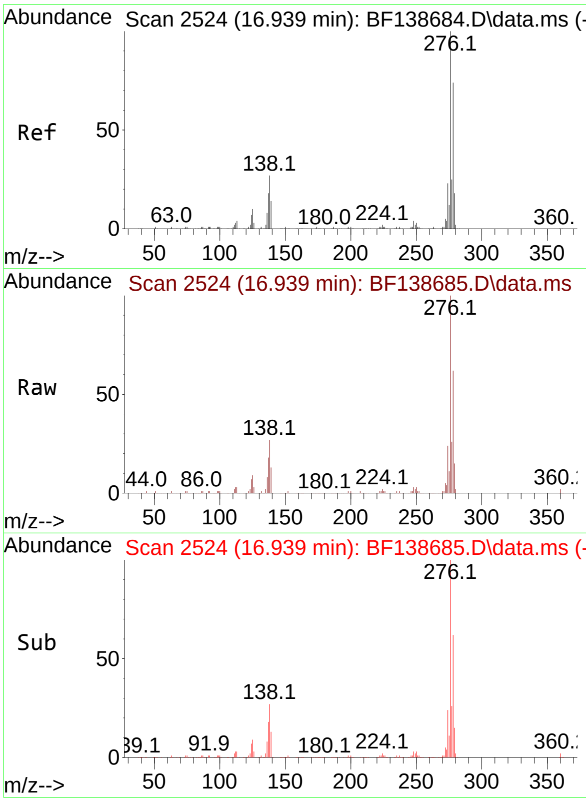
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min   Scan# 2274
Delta R.T.   0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024   15:27

Tgt Ion:264 Resp: 151751

Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.0	28.6
265	21.5	17.0	25.6



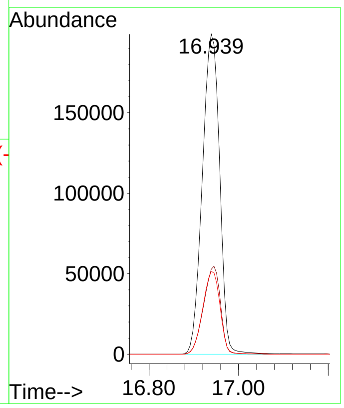
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

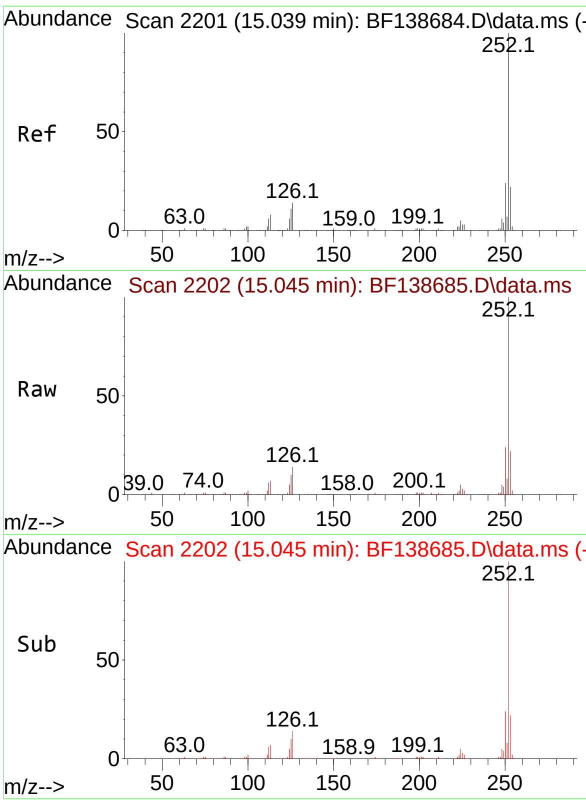


#87
Indeno(1,2,3-cd)pyrene
Concen: 49.039 ng
RT: 16.939 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:276 Resp: 533298

Ion	Ratio	Lower	Upper
276	100		
138	26.9	21.8	32.8
277	25.8	20.6	30.8

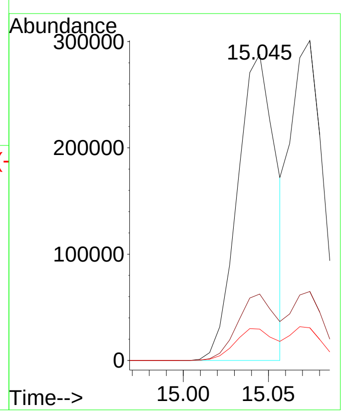




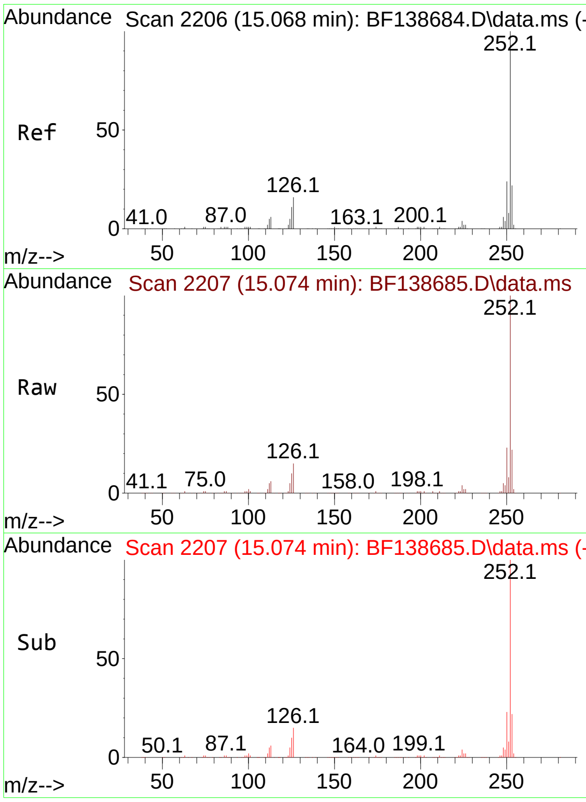
#88
Benzo(b)fluoranthene
Concen: 47.613 ng
RT: 15.045 min Scan# 2202
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:252 Resp: 447896

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	10.3	8.9	13.3



ICAL Form



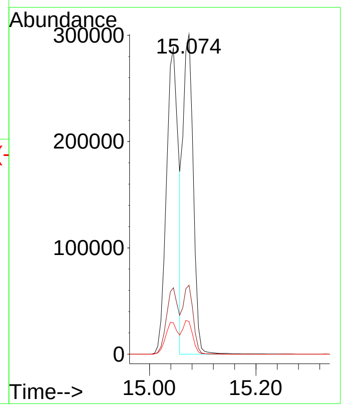
#89
Benzo(k)fluoranthene
Concen: 49.358 ng
RT: 15.074 min Scan# 2

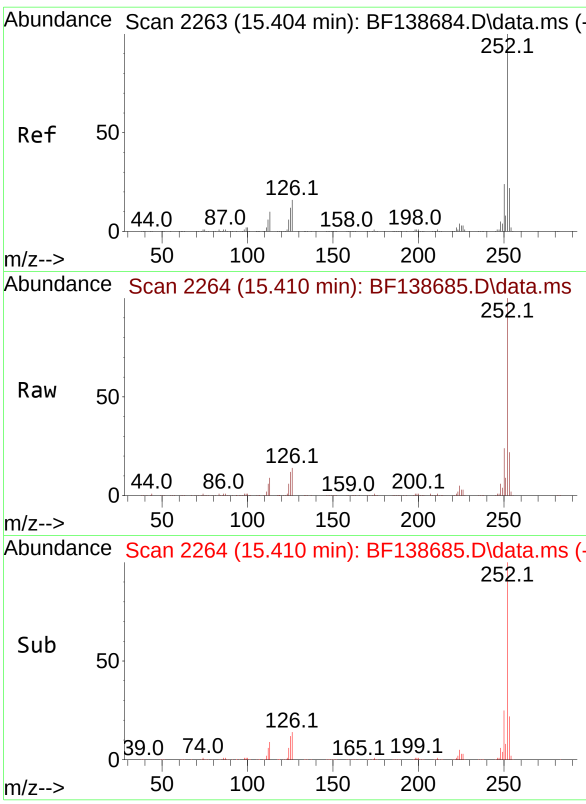
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:252 Resp: 402008

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0
125	10.2	8.6	13.0

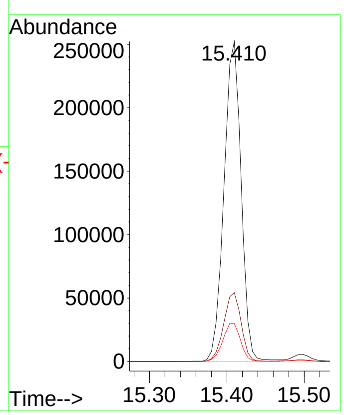




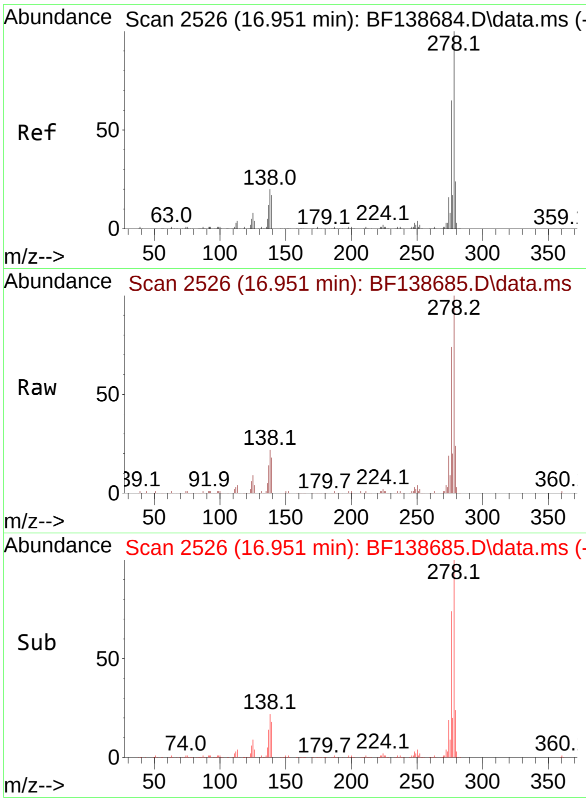
#90
Benzo(a)pyrene
Concen: 49.199 ng
RT: 15.410 min Scan# 2264
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:252 Resp: 389298

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.3	25.9
125	11.9	9.5	14.3



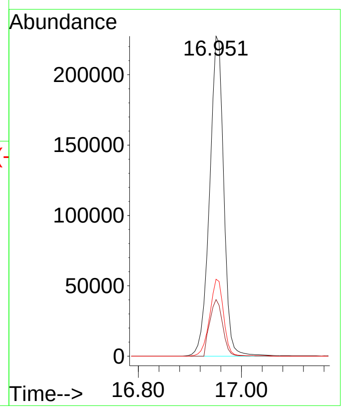
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

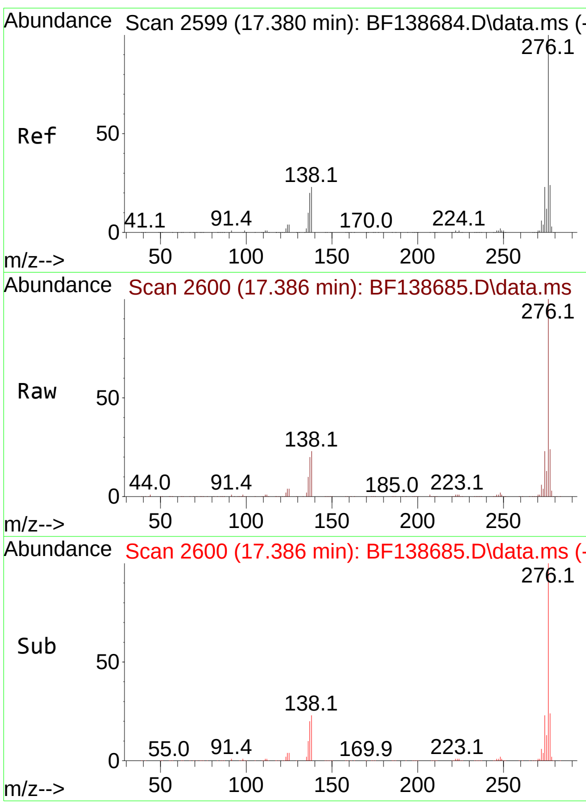


#91
Dibenzo(a,h)anthracene
Concen: 48.460 ng
RT: 16.951 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:278 Resp: 432604

Ion	Ratio	Lower	Upper
278	100		
139	17.7	14.0	21.0
279	24.1	19.0	28.4

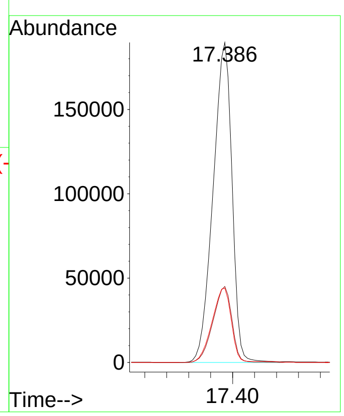




#92
Benzo(g,h,i)perylene
Concen: 48.997 ng
RT: 17.386 min Scan# 2600
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:276 Resp: 453886

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	23.2	18.5	27.7



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138686.D
Acq On : 30 Jul 2024 15:58
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Jul 30 17:46:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	83492	20.000 ng		0.00
21) Naphthalene-d8	8.128	136	334760	20.000 ng		0.00
39) Acenaphthene-d10	9.880	164	181338	20.000 ng		0.00
64) Phenanthrene-d10	11.369	188	299773	20.000 ng		0.00
76) Chrysene-d12	14.010	240	135234	20.000 ng		0.00
86) Perylene-d12	15.468	264	151051	20.000 ng		0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	629095	116.311 ng		0.00
7) Phenol-d6	6.492	99	843765	116.193 ng		0.00
23) Nitrobenzene-d5	7.416	82	813835	118.860 ng		0.00
42) 2,4,6-Tribromophenol	10.675	330	180537	121.541 ng		0.00
45) 2-Fluorobiphenyl	9.204	172	1351342	111.967 ng		0.00
79) Terphenyl-d14	12.951	244	981714	121.541 ng		0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.604	88	140904	59.504 ng		99
3) Pyridine	3.357	79	340220	59.310 ng		98
4) n-Nitrosodimethylamine	3.328	42	212531	62.209 ng		99
6) Aniline	6.516	93	370584	57.223 ng	#	79
8) 2-Chlorophenol	6.639	128	331893	58.323 ng		99
10) Phenol	6.510	94	443551	58.012 ng		88
11) bis(2-Chloroethyl)ether	6.587	93	354634	60.274 ng		99
12) 1,3-Dichlorobenzene	6.787	146	367637	57.714 ng		98
13) 1,4-Dichlorobenzene	6.863	146	368108	57.263 ng		99
14) 1,2-Dichlorobenzene	7.022	146	340797	56.726 ng		99
15) Benzyl Alcohol	6.992	79	312171	59.644 ng		98
16) 2,2'-oxybis(1-Chloropr...	7.122	45	580475	57.327 ng		84
17) 2-Methylphenol	7.110	107	282986	60.223 ng		97
18) Hexachloroethane	7.357	117	141381	58.427 ng		98
19) n-Nitroso-di-n-propyla...	7.269	70	256740	58.537 ng		98
20) 3+4-Methylphenols	7.263	107	341873	56.705 ng		96
22) Acetophenone	7.263	105	477062	58.203 ng	#	99
24) Nitrobenzene	7.439	77	410640	58.938 ng		98
25) Isophorone	7.675	82	700155	59.885 ng		99
26) 2-Nitrophenol	7.751	139	185196	61.782 ng		98
27) 2,4-Dimethylphenol	7.786	122	216101	60.254 ng		99
28) bis(2-Chloroethoxy)met...	7.881	93	417700	58.667 ng		99
29) 2,4-Dichlorophenol	7.992	162	276792	60.060 ng		98
30) 1,2,4-Trichlorobenzene	8.069	180	308922	58.085 ng		98
31) Naphthalene	8.151	128	1018783	57.817 ng		99
32) Benzoic acid	7.939	122	191273	67.875 ng		99
33) 4-Chloroaniline	8.210	127	359031	60.700 ng		99
34) Hexachlorobutadiene	8.263	225	188273	58.445 ng		98
35) Caprolactam	8.592	113	86887	63.184 ng		96
36) 4-Chloro-3-methylphenol	8.692	107	315510	59.904 ng		98
37) 2-Methylnaphthalene	8.839	142	643115	57.790 ng		99
38) 1-Methylnaphthalene	8.939	142	633938	58.134 ng		99
40) 1,2,4,5-Tetrachloroben...	9.004	216	290297	57.629 ng		99
41) Hexachlorocyclopentadiene	8.992	237	79605	61.472 ng		98
43) 2,4,6-Trichlorophenol	9.122	196	185606	60.432 ng		99
44) 2,4,5-Trichlorophenol	9.169	196	200163	59.615 ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138686.D
Acq On : 30 Jul 2024 15:58
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Jul 30 17:46:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) 1,1'-Biphenyl	9.310	154	814566	57.355 ng	100
47) 2-Chloronaphthalene	9.333	162	605996	57.372 ng	99
48) 2-Nitroaniline	9.433	65	214695	59.957 ng	100
49) Acenaphthylene	9.745	152	863615	57.648 ng	99
50) Dimethylphthalate	9.610	163	695202	59.957 ng	99
51) 2,6-Dinitrotoluene	9.675	165	163000	62.290 ng	97
52) Acenaphthene	9.922	154	581492	57.743 ng	100
53) 3-Nitroaniline	9.845	138	165034	61.007 ng	98
54) 2,4-Dinitrophenol	9.957	184	82451	68.448 ng	96
55) Dibenzofuran	10.092	168	809534	56.948 ng	99
56) 4-Nitrophenol	10.016	139	107052	65.807 ng	97
57) 2,4-Dinitrotoluene	10.080	165	201610	60.388 ng	93
58) Fluorene	10.433	166	646844	57.140 ng	99
59) 2,3,4,6-Tetrachlorophenol	10.210	232	162987	63.494 ng	97
60) Diethylphthalate	10.304	149	661415	60.161 ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	321470	57.740 ng	97
62) 4-Nitroaniline	10.463	138	159081	61.881 ng	99
63) Azobenzene	10.586	77	722929	59.288 ng	99
65) 4,6-Dinitro-2-methylph...	10.492	198	115013	62.887 ng	98
66) n-Nitrosodiphenylamine	10.545	169	550299	58.728 ng	100
67) 4-Bromophenyl-phenylether	10.916	248	185589	57.182 ng	98
68) Hexachlorobenzene	10.980	284	197152	58.832 ng	96
69) Atrazine	11.069	200	137932	57.055 ng	99
70) Pentachlorophenol	11.174	266	101863	67.437 ng	98
71) Phenanthrene	11.398	178	867741	56.216 ng	99
72) Anthracene	11.445	178	869464	57.177 ng	99
73) Carbazole	11.604	167	742002	56.558 ng	99
74) Di-n-butylphthalate	11.927	149	891999	60.481 ng	100
75) Fluoranthene	12.580	202	797022	55.309 ng	99
77) Benzidine	12.704	184	165511	51.170 ng	98
78) Pyrene	12.810	202	782403	61.448 ng	99
80) Butylbenzylphthalate	13.421	149	251612	61.709 ng	99
81) Benzo(a)anthracene	13.998	228	548125	58.859 ng	99
82) 3,3'-Dichlorobenzidine	13.957	252	129254	54.238 ng	99
83) Chrysene	14.033	228	498766	59.365 ng	99
84) Bis(2-ethylhexyl)phtha...	13.980	149	343468	57.526 ng	100
85) Di-n-octyl phthalate	14.592	149	637055	57.670 ng	100
87) Indeno(1,2,3-cd)pyrene	16.945	276	636857	58.833 ng	100
88) Benzo(b)fluoranthene	15.045	252	514218	54.916 ng	99
89) Benzo(k)fluoranthene	15.074	252	506146	62.431 ng	99
90) Benzo(a)pyrene	15.410	252	469205	59.572 ng	100
91) Dibenzo(a,h)anthracene	16.956	278	519552	58.470 ng	99
92) Benzo(g,h,i)perylene	17.392	276	542952	58.883 ng	99

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

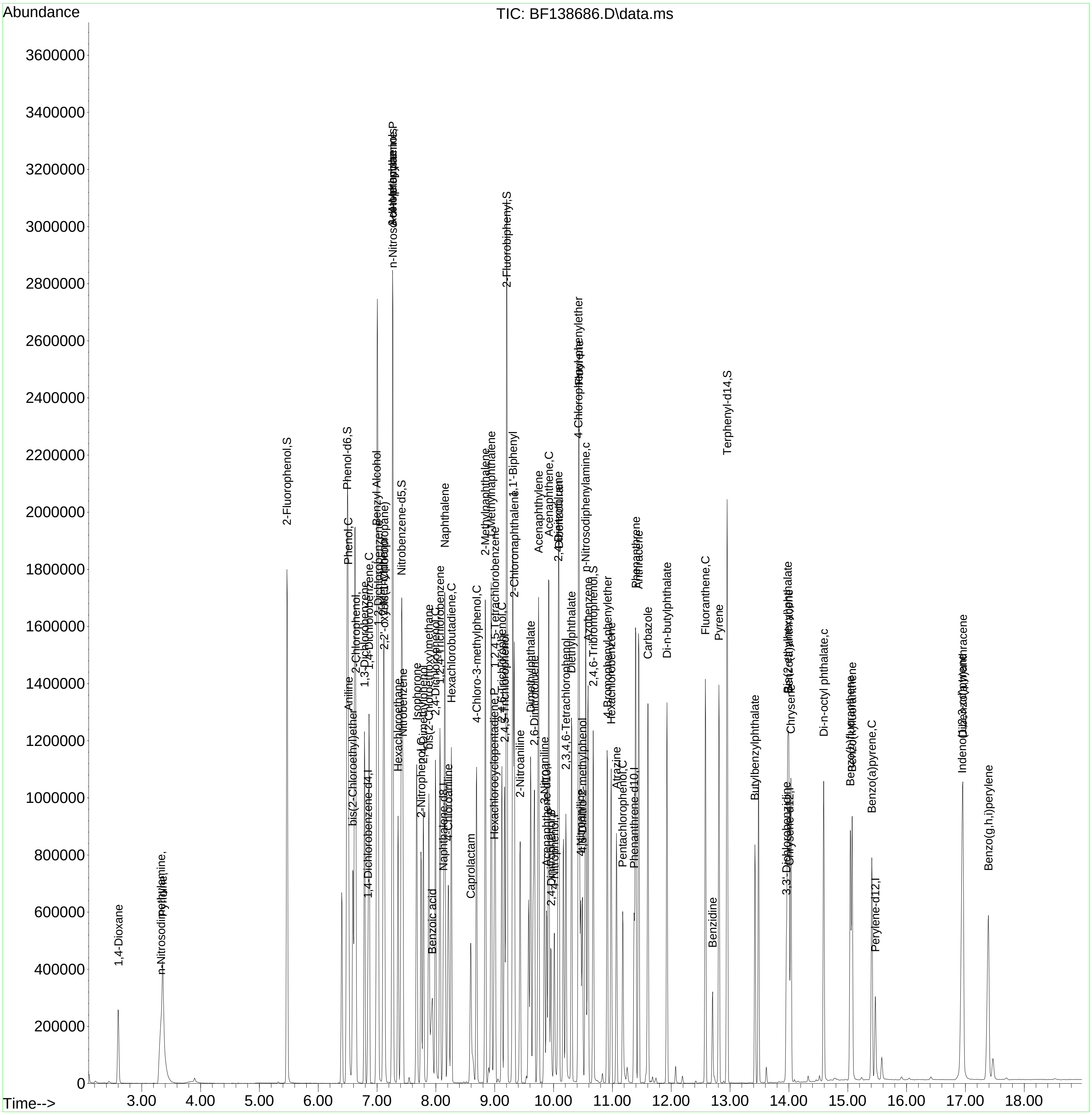
Quantitation Report   (QT Reviewed)

ICAL Form

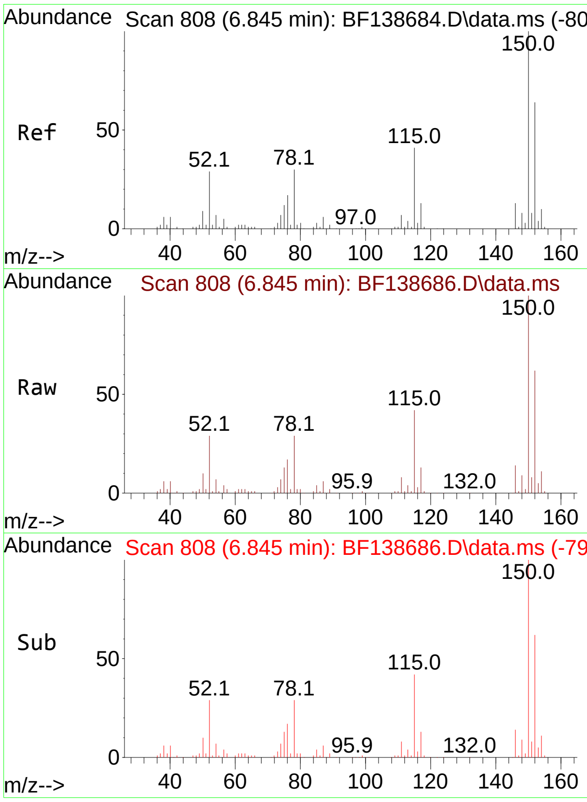
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138686.D
Acq On   : 30 Jul 2024 15:58
Operator : RC/JU
Sample   : SSTDICC060
Misc   :
ALS Vial : 8   Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Jul 30 17:46:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



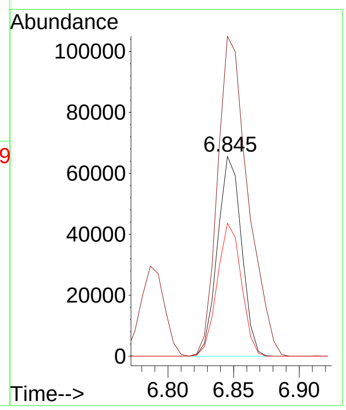
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

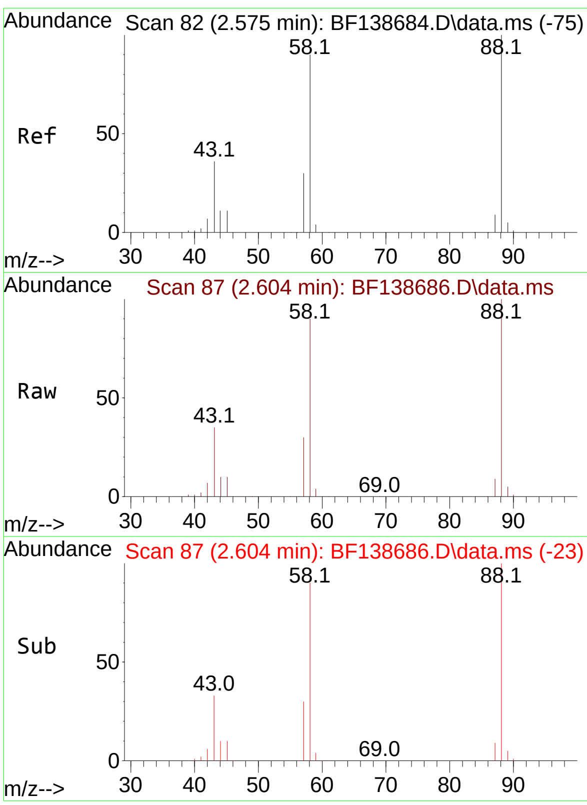


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min   Scan# 8(
Delta R.T.   0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024   15:58

Tgt Ion:152 Resp: 83492

Ion	Ratio	Lower	Upper
152	100		
150	160.2	126.0	189.0
115	66.6	51.7	77.5

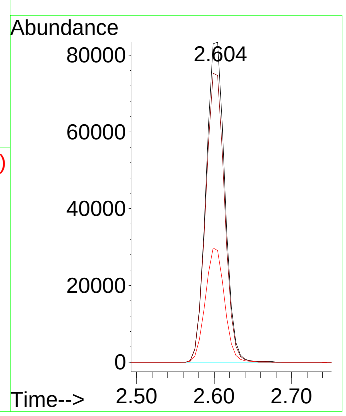




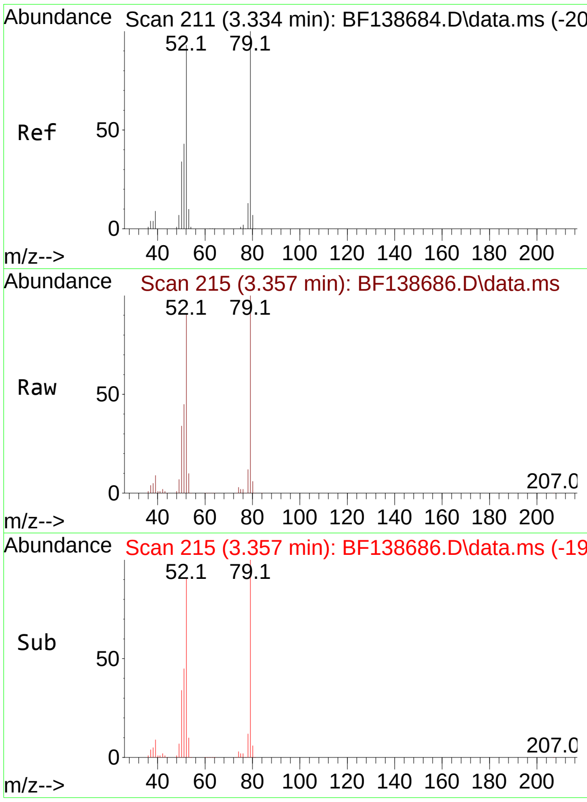
#2
1,4-Dioxane
Concen: 59.504 ng
RT: 2.604 min   Scan# 87
Delta R.T.   0.029 min
Lab File: BF138686.D
Acq: 30 Jul 2024   15:58

Tgt Ion: 88 Resp: 140904

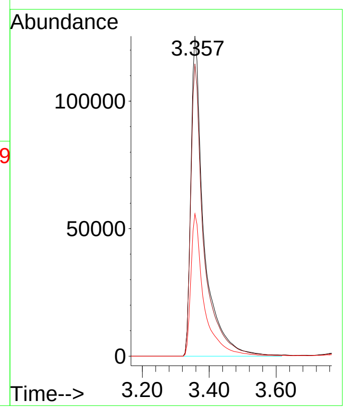
Ion	Ratio	Lower	Upper
88	100		
58	90.5	71.6	107.4
43	36.2	28.7	43.1

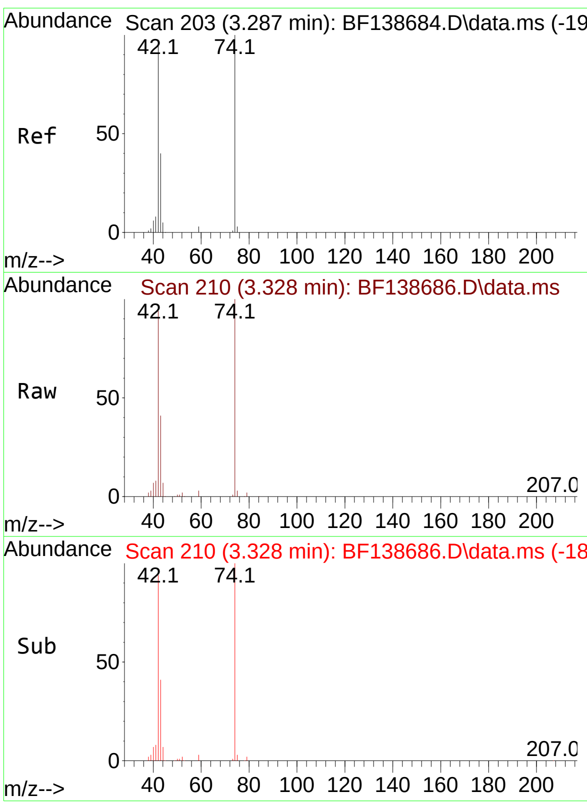


Instrument :
BNA_F
ClientSampleId :
SSTDICC060

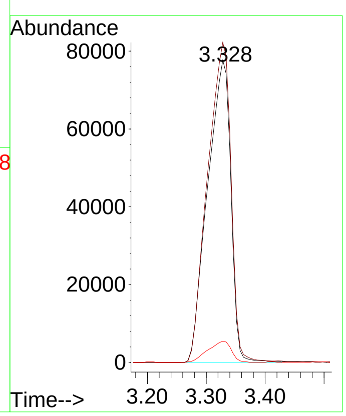



```
#3
Pyridine
Concen:   59.310 ng
RT:   3.357 min  Scan# 2
Delta R.T.  0.023 min
Lab File:   BF138686.D
Acq: 30 Jul 2024  15:58

Tgt Ion: 79 Resp:  340220
Ion  Ratio  Lower  Upper
 79  100
 52   91.3   74.7  112.1
 51   44.5   34.6   51.8
```



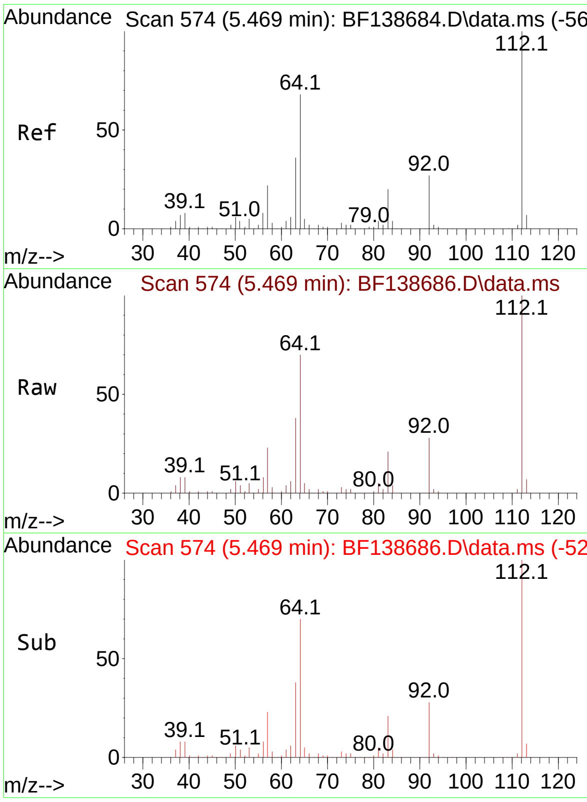



```
#4
n-Nitrosodimethylamine
Concen:   62.209 ng
RT:   3.328 min  Scan# 210
Delta R.T.  0.041 min
Lab File:   BF138686.D
Acq: 30 Jul 2024  15:58

Tgt Ion: 42 Resp:  212531
Ion  Ratio  Lower  Upper
 42  100
 74  105.8   84.2  126.4
 44    7.0    4.9    7.3
```

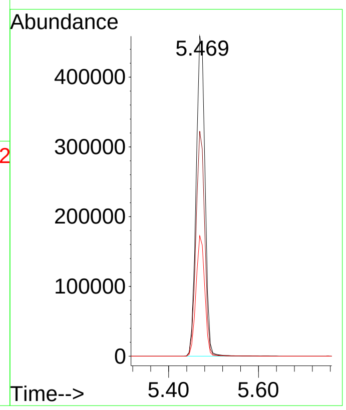


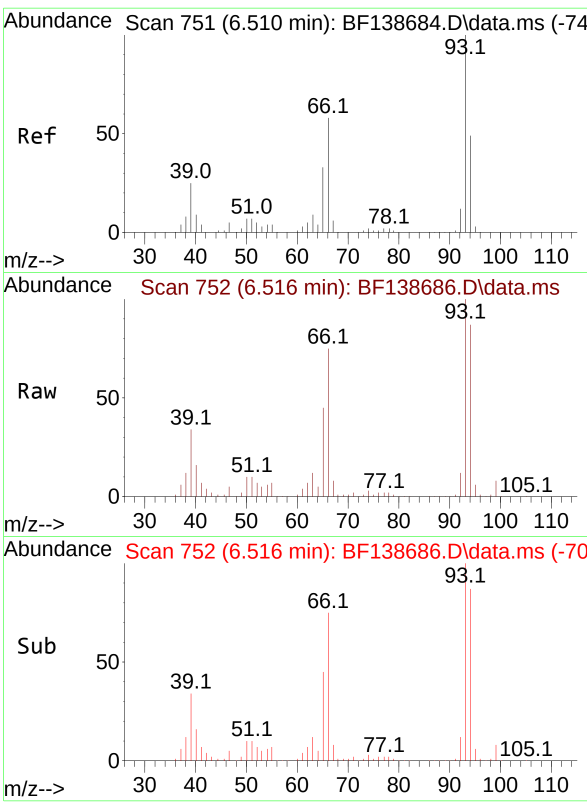
ICAL Form

Instrument : BNA_F
ClientSampleId : SSTDICC060

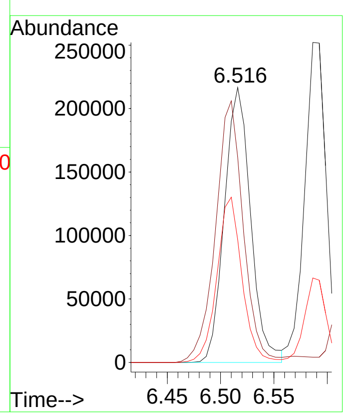



```
#5
2-Fluorophenol
Concen:  116.311 ng
RT:   5.469 min  Scan# 5
Delta R.T.  -0.000 min
Lab File:   BF138686.D
Acq: 30 Jul 2024  15:58

Tgt Ion:112 Resp:  629095
Ion  Ratio  Lower  Upper
112  100
 64   70.3   54.2   81.4
 63   37.6   28.7   43.1
```



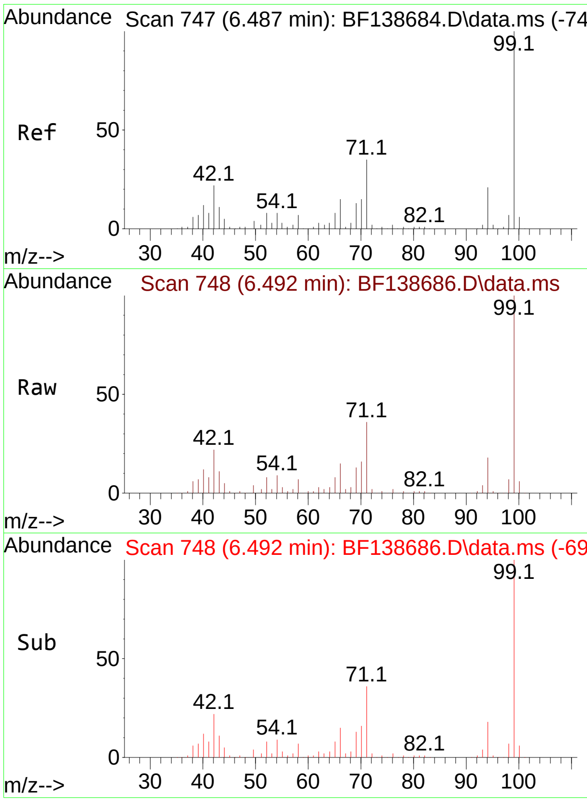



```
#6
Aniline
Concen:   57.223 ng
RT:   6.516 min  Scan# 752
Delta R.T.  0.006 min
Lab File:   BF138686.D
Acq: 30 Jul 2024  15:58

Tgt Ion: 93 Resp:  370584
Ion  Ratio  Lower  Upper
 93  100
 66   74.7   46.9   70.3#
 65   44.6   26.5   39.7#
```



ICAL Form

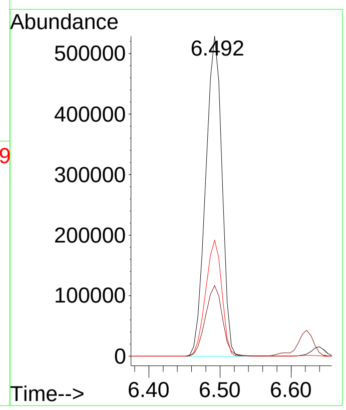
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

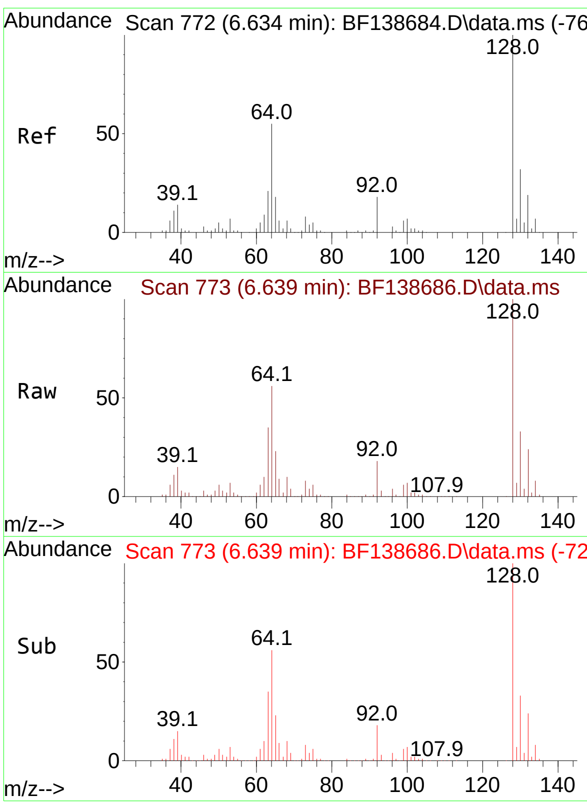


#7
Phenol-d6
Concen: 116.193 ng
RT: 6.492 min Scan# 74
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 99 Resp: 843765

Ion	Ratio	Lower	Upper
99	100		
42	22.0	17.4	26.0
71	36.2	28.1	42.1

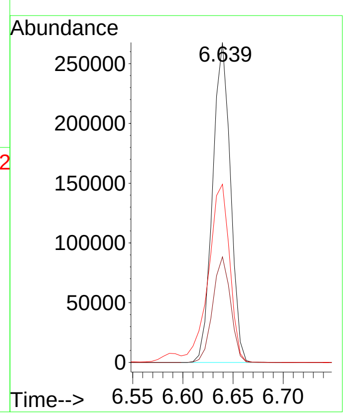




#8
2-Chlorophenol
Concen: 58.323 ng
RT: 6.639 min Scan# 773
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

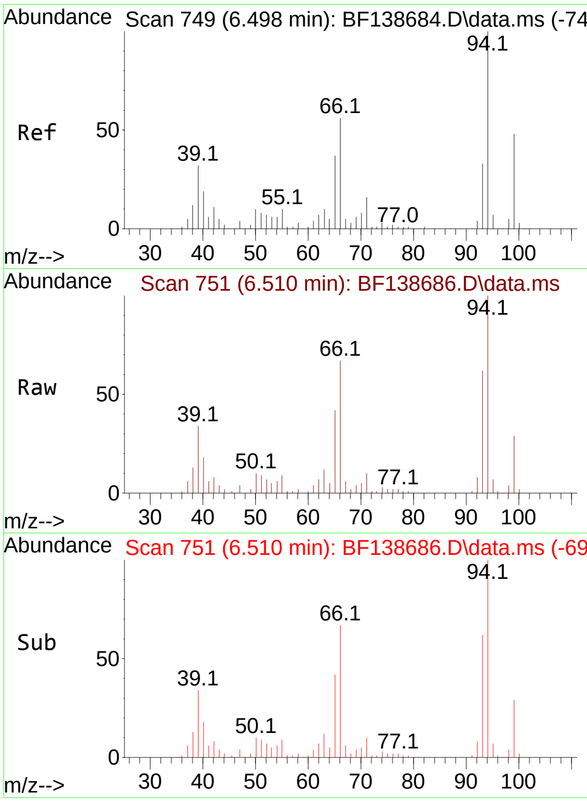
Tgt Ion:128 Resp: 331893

Ion	Ratio	Lower	Upper
128	100		
130	33.0	12.0	52.0
64	55.7	36.3	76.3



ICAL Form

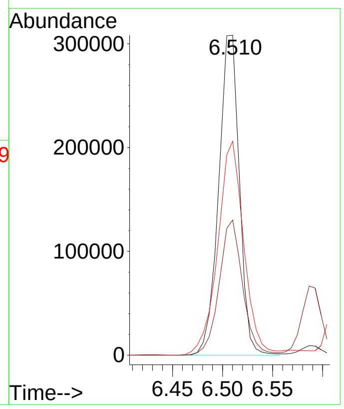
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

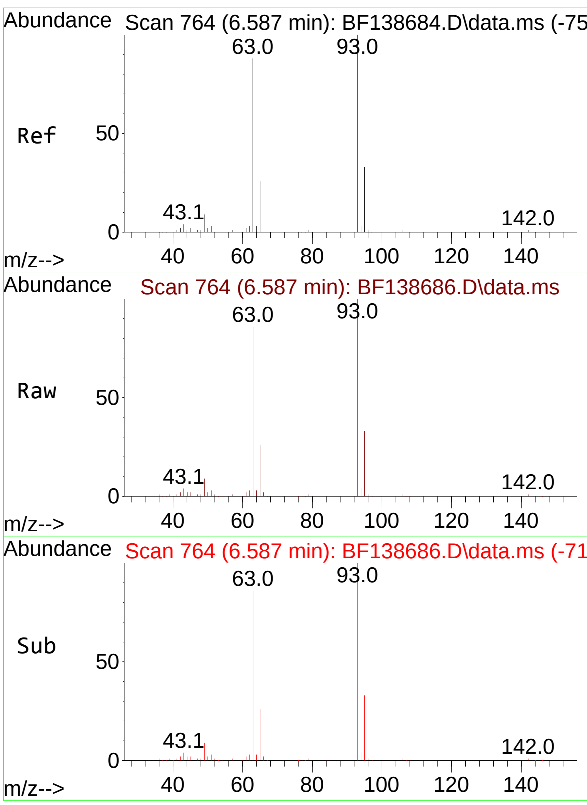


#10
Phenol
Concen: 58.012 ng
RT: 6.510 min   Scan# 7
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024   15:58

Tgt Ion: 94 Resp: 443551

Ion	Ratio	Lower	Upper
94	100		
65	42.2	16.9	56.9
66	66.8	36.5	76.5

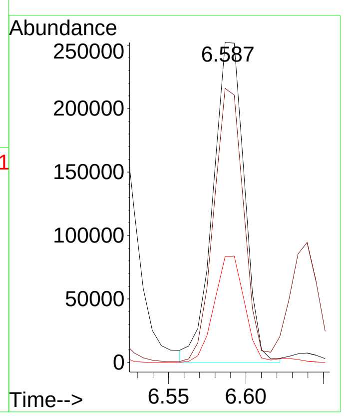




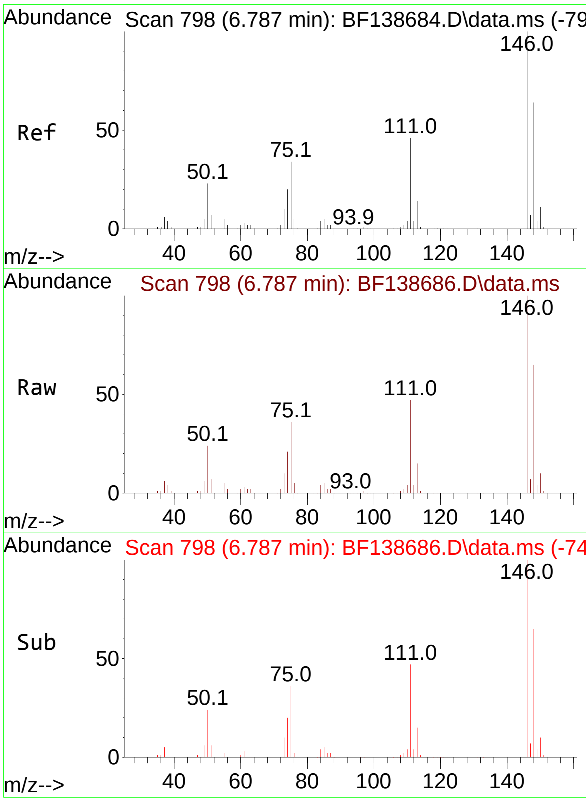
#11
bis(2-Chloroethyl)ether
Concen: 60.274 ng
RT: 6.587 min   Scan# 764
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024   15:58

Tgt Ion: 93 Resp: 354634

Ion	Ratio	Lower	Upper
93	100		
63	85.6	65.3	105.3
95	33.1	12.4	52.4



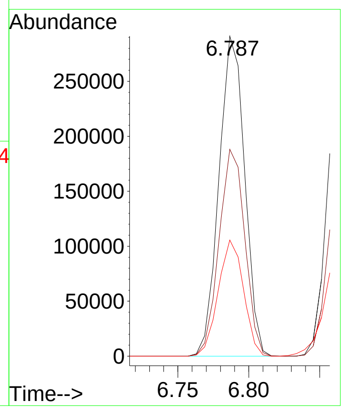
Instrument : BNA_F
ClientSampleId : SSTDICC060

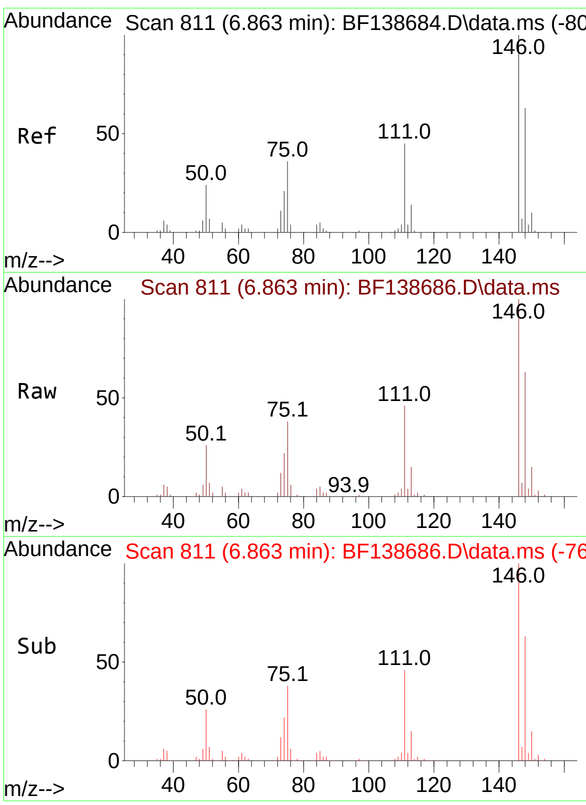


#12
1,3-Dichlorobenzene
Concen: 57.714 ng
RT: 6.787 min Scan# 79
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:146 Resp: 367637

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.2	76.8
75	36.3	27.4	41.2

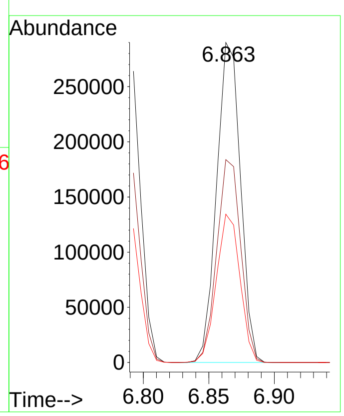




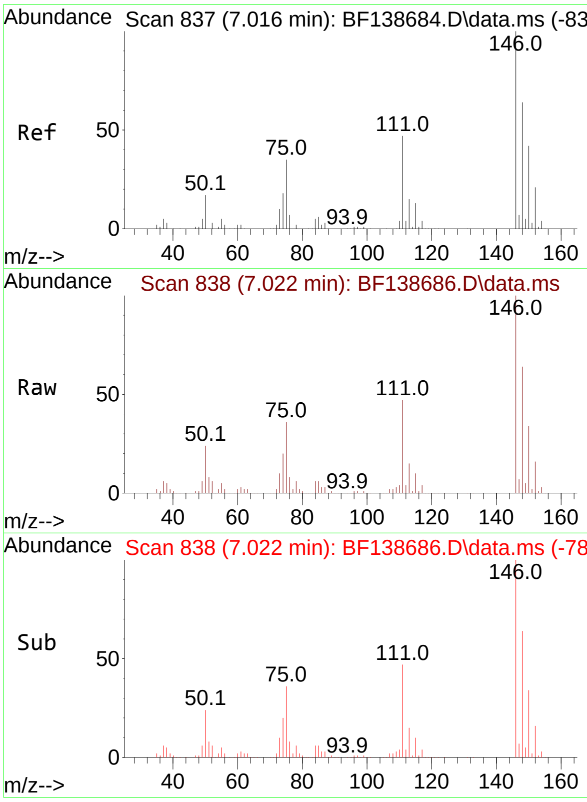
#13
1,4-Dichlorobenzene
Concen: 57.263 ng
RT: 6.863 min Scan# 811
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:146 Resp: 368108

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.2	75.2
111	46.4	35.9	53.9



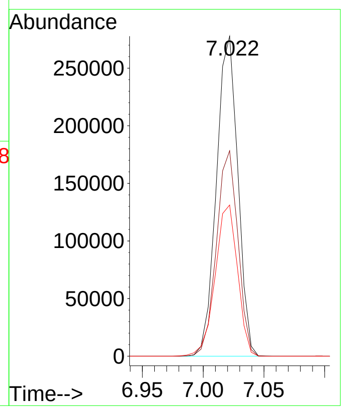
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

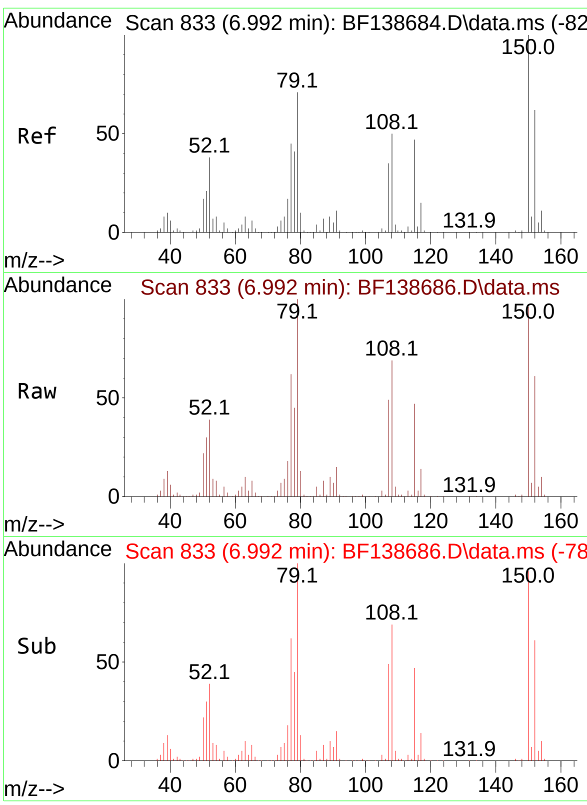


#14
1,2-Dichlorobenzene
Concen: 56.726 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:146 Resp: 340797

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.8	76.2
111	47.2	37.4	56.2

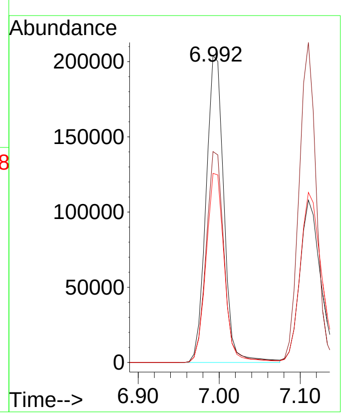




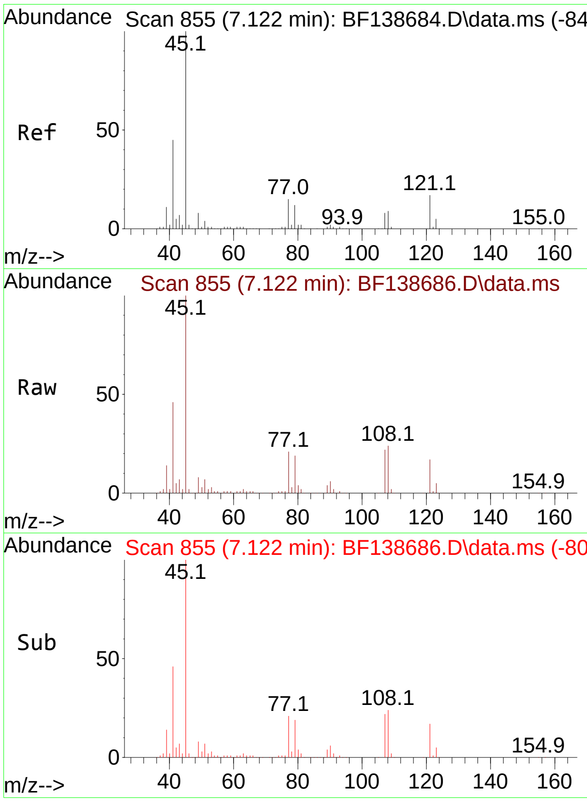
#15
Benzyl Alcohol
Concen: 59.644 ng
RT: 6.992 min Scan# 833
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 79 Resp: 312171

Ion	Ratio	Lower	Upper
79	100		
108	68.7	56.6	85.0
77	61.6	50.3	75.5



ICAL Form

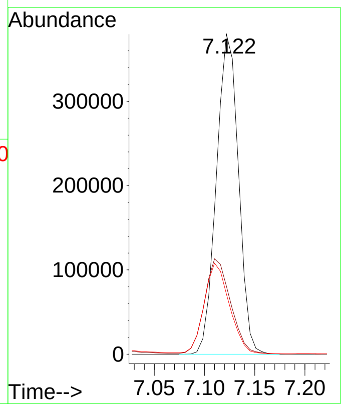


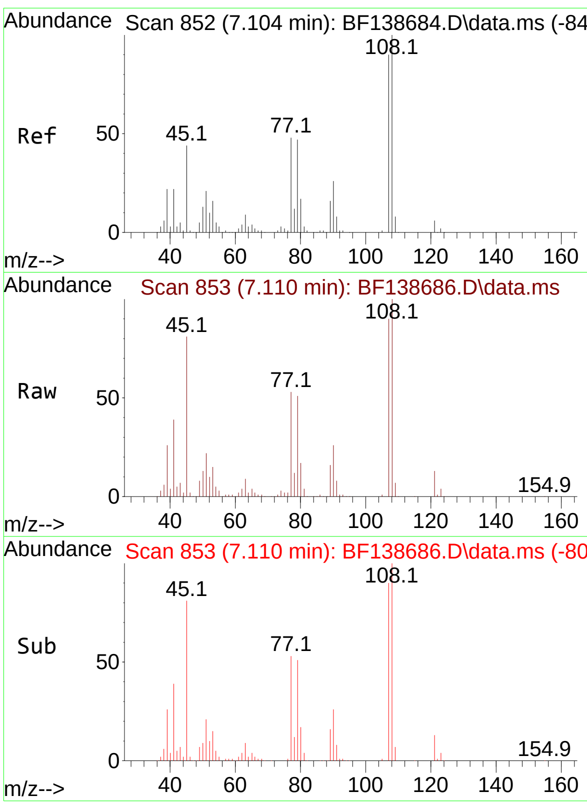
#16
2,2'-oxybis(1-Chloropropane)
Concen: 57.327 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 45 Resp: 580475

Ion	Ratio	Lower	Upper
45	100		
77	21.2	0.0	34.9
79	18.8	0.0	32.2

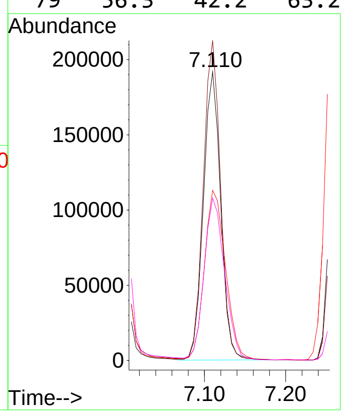




#17
2-Methylphenol
Concen: 60.223 ng
RT: 7.110 min Scan# 853
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

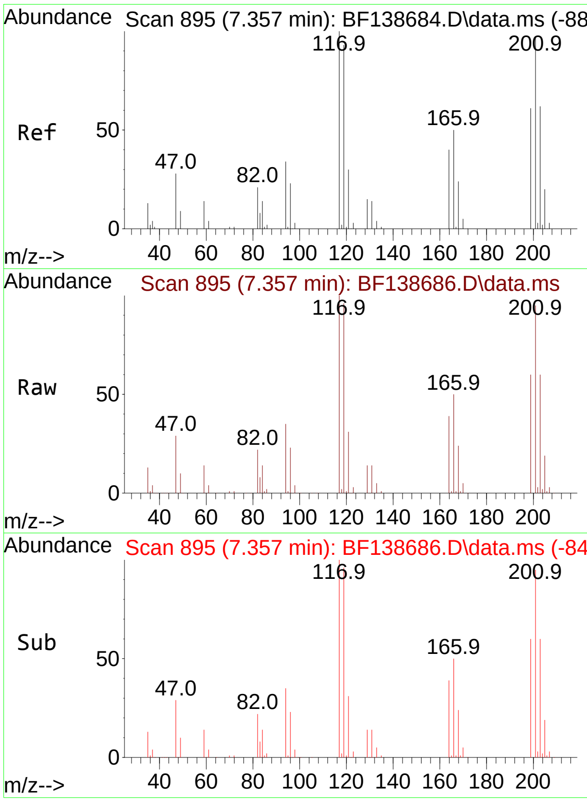
Tgt Ion:107 Resp: 282986

Ion	Ratio	Lower	Upper
107	100		
108	110.9	89.2	133.8
77	58.9	43.0	64.4
79	56.3	42.2	63.2



ICAL Form

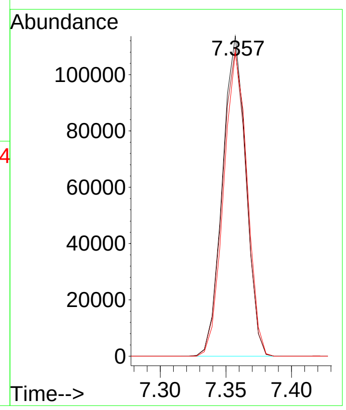
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

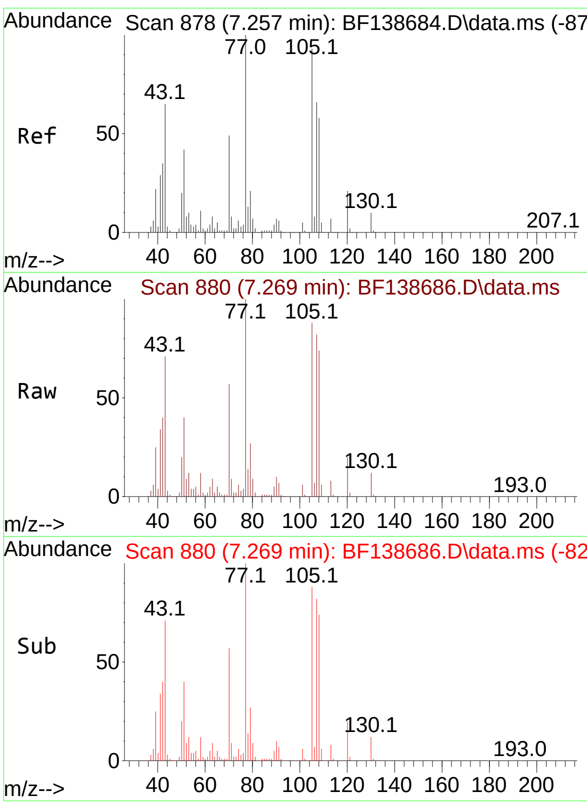


#18
Hexachloroethane
Concen: 58.427 ng
RT: 7.357 min Scan# 89
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:117 Resp: 141381

Ion	Ratio	Lower	Upper
117	100		
119	96.0	74.6	111.8
201	94.8	77.2	115.8

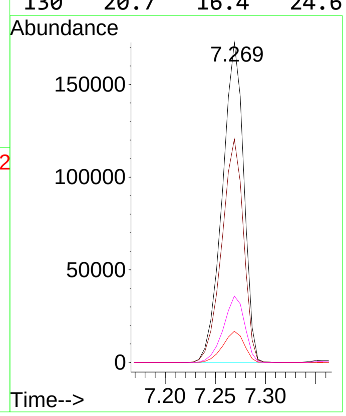




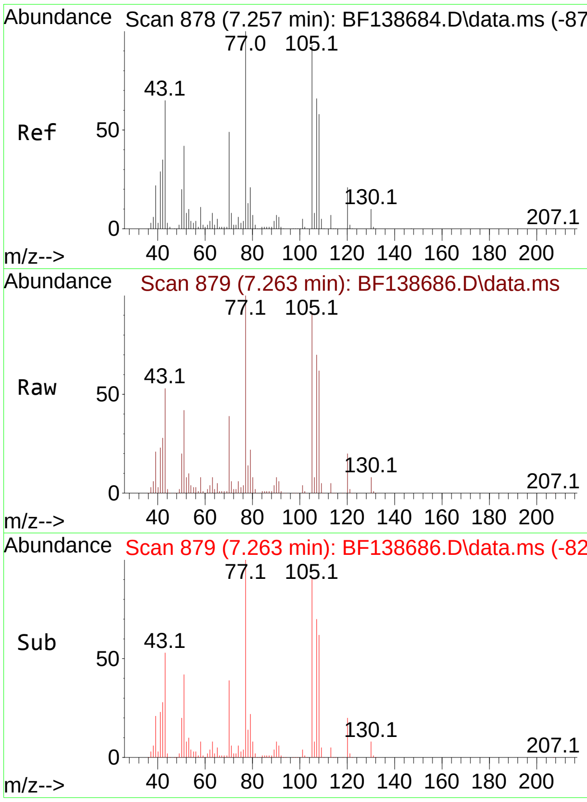
#19
n-Nitroso-di-n-propylamine
Concen: 58.537 ng
RT: 7.269 min Scan# 880
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 70 Resp: 256740

Ion	Ratio	Lower	Upper
70	100		
42	69.8	57.4	86.0
101	9.7	7.5	11.3
130	20.7	16.4	24.6



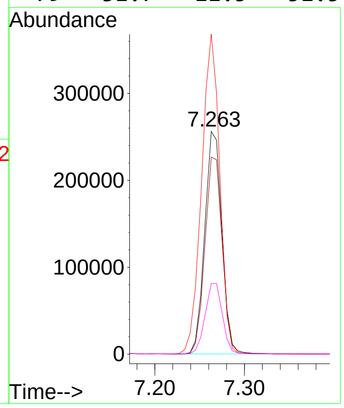
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

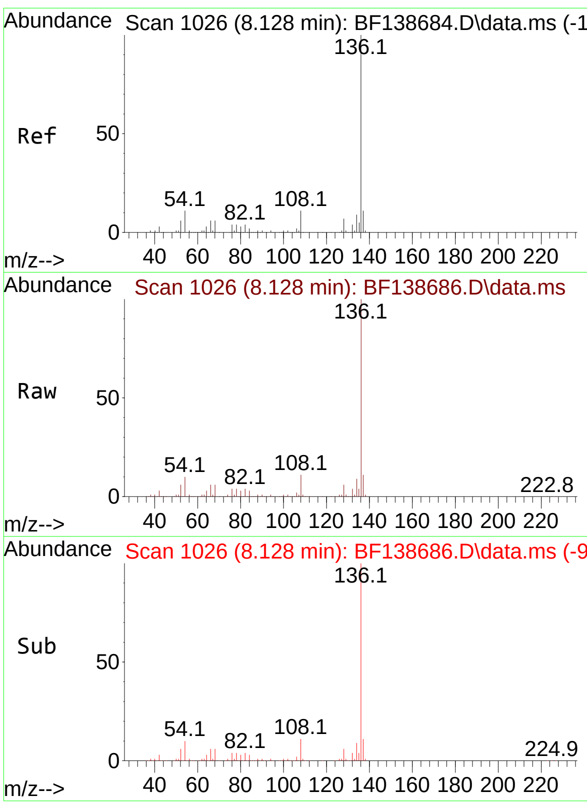


#20
3+4-Methylphenols
Concen: 56.705 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:107 Resp: 341873

Ion	Ratio	Lower	Upper
107	100		
108	88.5	68.2	108.2
77	143.7	132.1	172.1
79	31.7	11.5	51.5

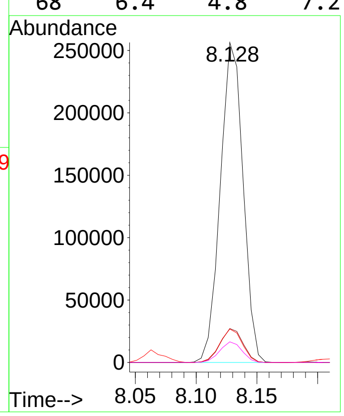




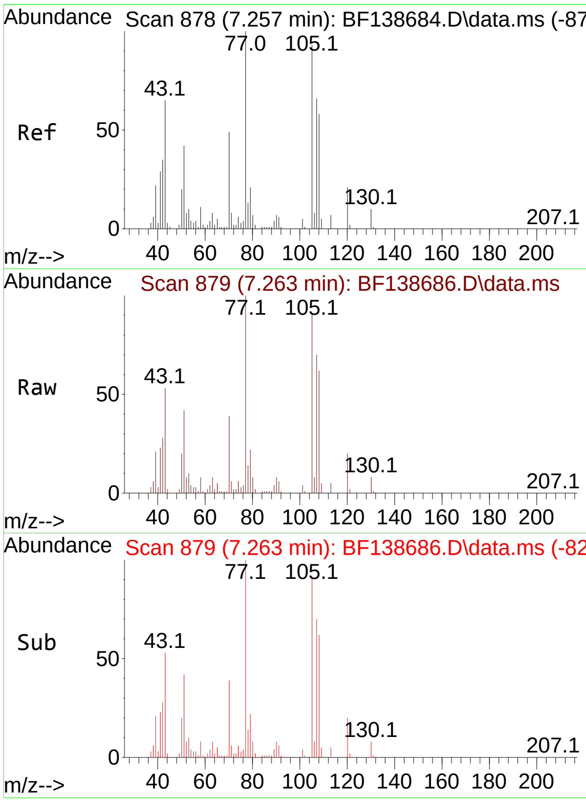
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:136 Resp: 334760

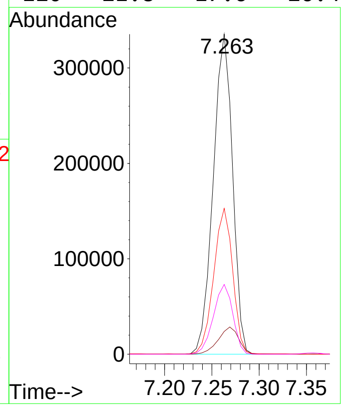
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.9	13.3
54	10.5	8.6	12.8
68	6.4	4.8	7.2

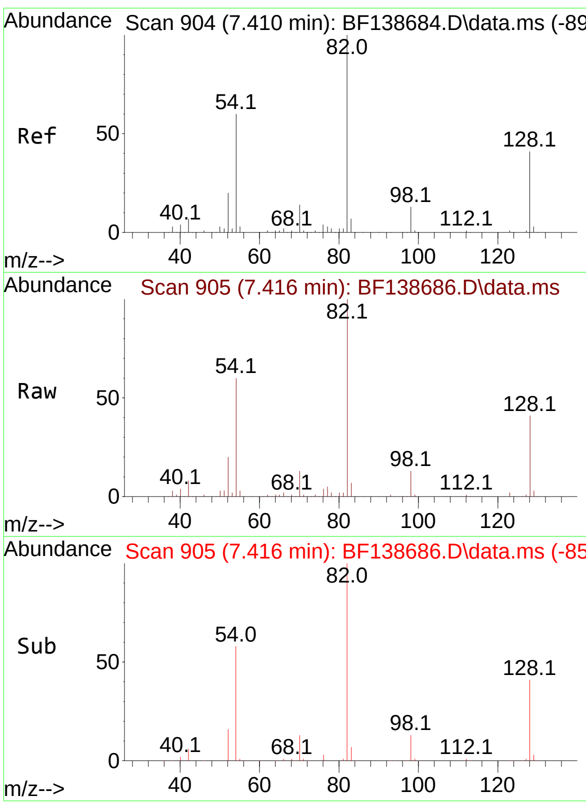


Instrument :
BNA_F
ClientSampleId :
SSTDICC060

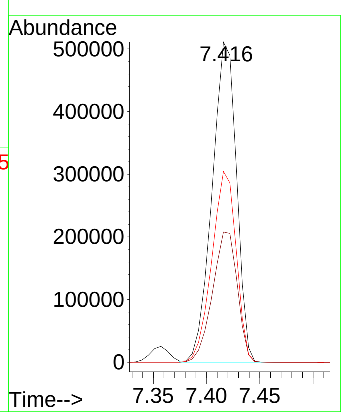



```
#22
Acetophenone
Concen:   58.203 ng
RT:   7.263 min  Scan# 8
Delta R.T.  0.006 min
Lab File:   BF138686.D
Acq: 30 Jul 2024  15:58

Tgt Ion:105 Resp:  477062
Ion  Ratio  Lower  Upper
105  100
 71    7.1    7.2   10.8#
 51   45.6   35.9   53.9
120   21.8   17.6   26.4
```

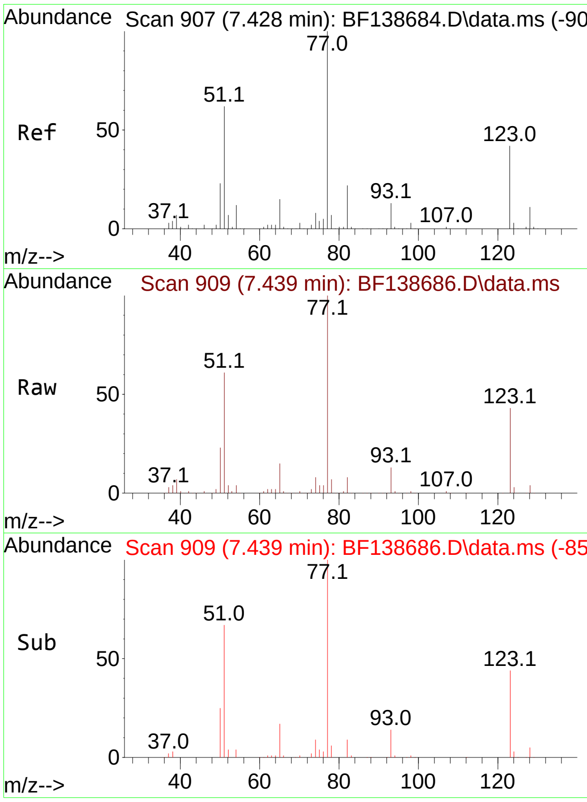





```
#23
Nitrobenzene-d5
Concen:  118.860 ng
RT:   7.416 min  Scan# 905
Delta R.T.  0.006 min
Lab File:   BF138686.D
Acq: 30 Jul 2024  15:58

Tgt Ion: 82 Resp:  813835
Ion  Ratio  Lower  Upper
 82  100
128   40.7   32.8   49.2
 54   59.6   48.3   72.5
```



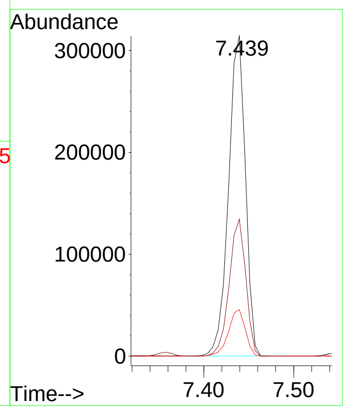
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

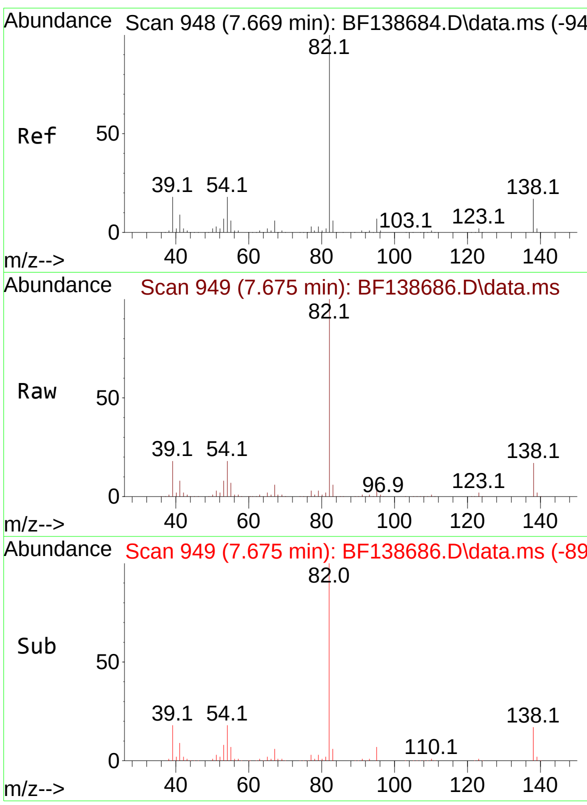


#24
Nitrobenzene
Concen: 58.938 ng
RT: 7.439 min   Scan# 90
Delta R.T.   0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024   15:58

Tgt Ion: 77 Resp: 410640

Ion	Ratio	Lower	Upper
77	100		
123	42.8	33.3	49.9
65	14.6	11.9	17.9

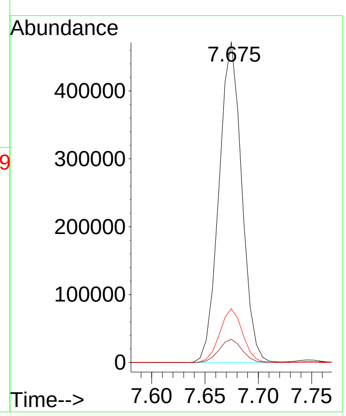




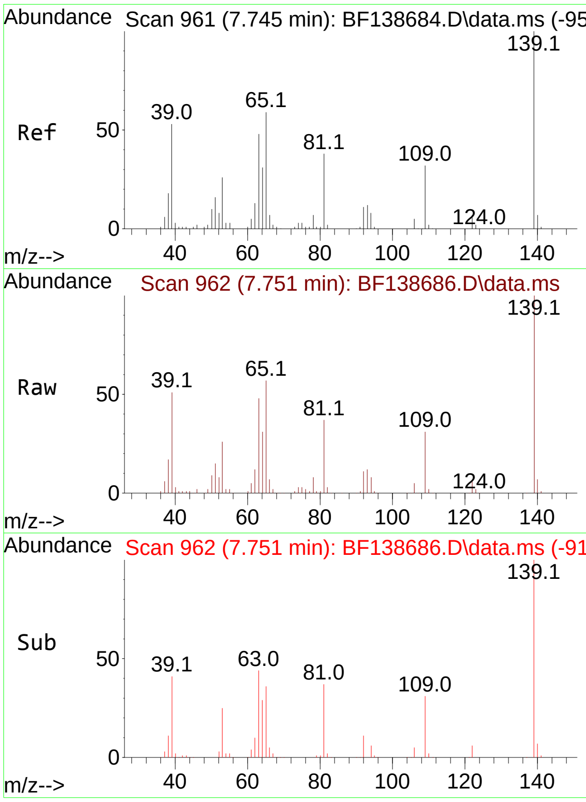
#25
Isophorone
Concen: 59.885 ng
RT: 7.675 min   Scan# 949
Delta R.T.   0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024   15:58

Tgt Ion: 82 Resp: 700155

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.7	8.5
138	16.8	13.7	20.5



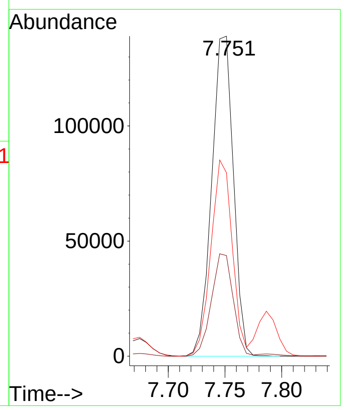
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

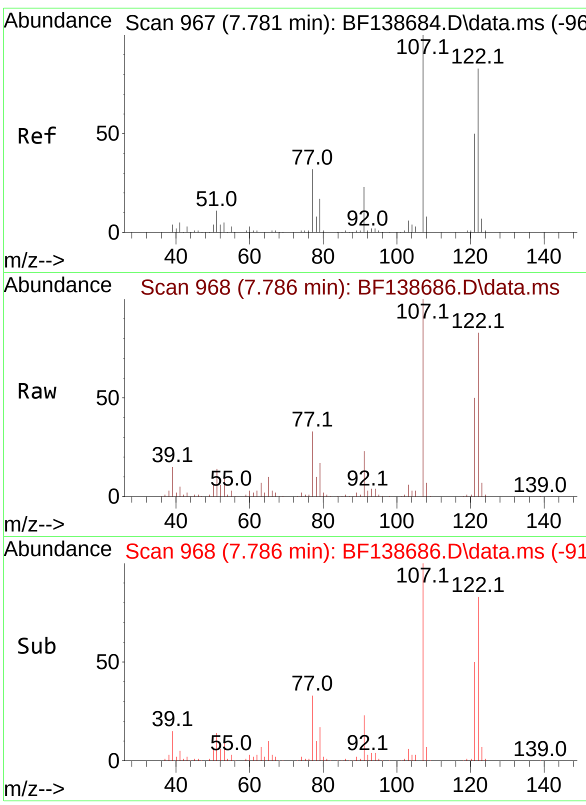


#26
2-Nitrophenol
Concen: 61.782 ng
RT: 7.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:139 Resp: 185196

Ion	Ratio	Lower	Upper
139	100		
109	31.4	25.9	38.9
65	57.4	47.0	70.6

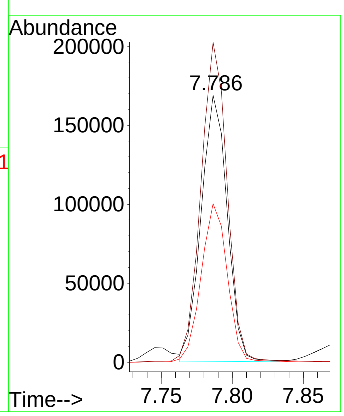




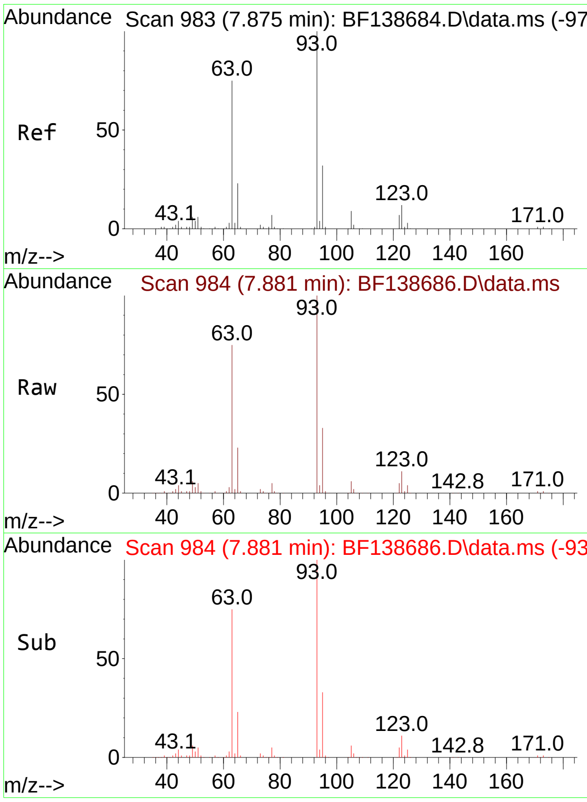
#27
2,4-Dimethylphenol
Concen: 60.254 ng
RT: 7.786 min Scan# 968
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:122 Resp: 216101

Ion	Ratio	Lower	Upper
122	100		
107	119.8	95.0	142.6
121	59.4	47.3	70.9



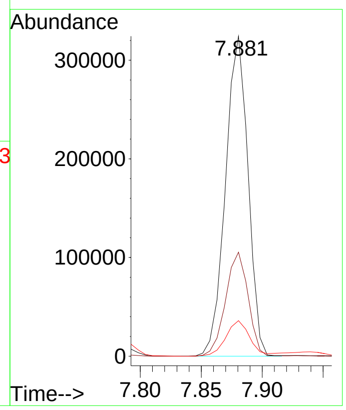
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

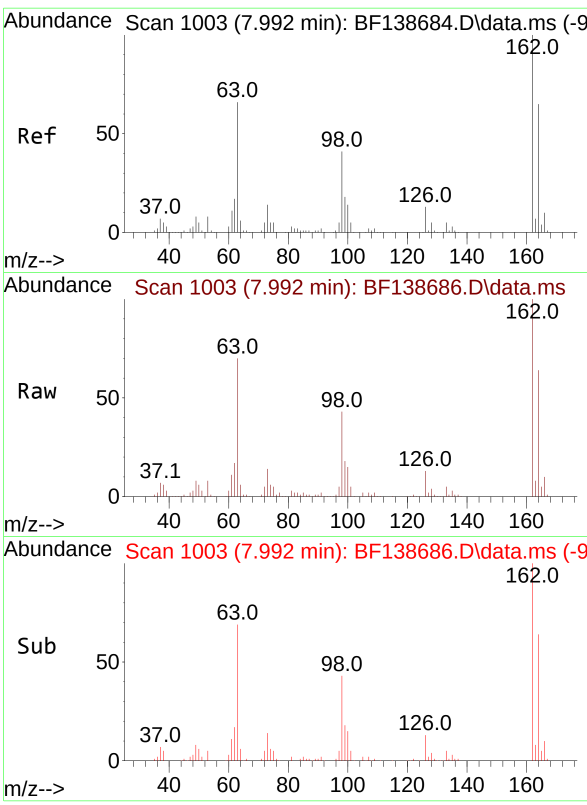


#28
bis(2-Chloroethoxy)methane
Concen: 58.667 ng
RT: 7.881 min Scan# 98
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 93 Resp: 417700

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.8
123	11.1	9.4	14.0

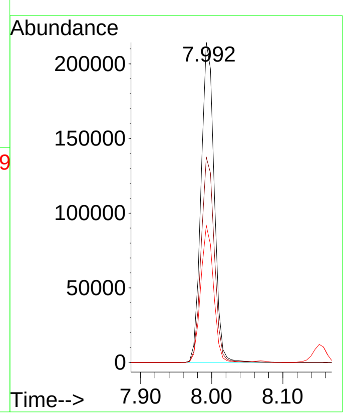




#29
2,4-Dichlorophenol
Concen: 60.060 ng
RT: 7.992 min Scan# 1003
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

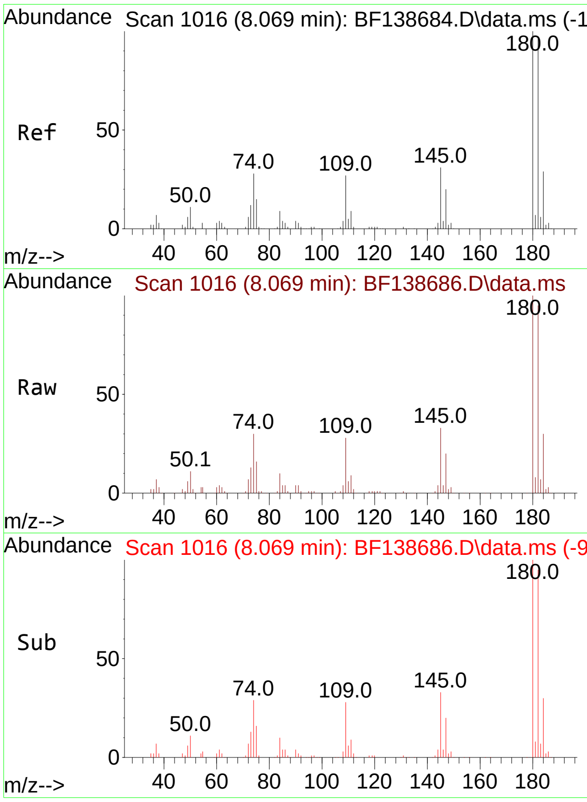
Tgt Ion:162 Resp: 276792

Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.7	84.7
98	42.8	20.8	60.8



ICAL Form

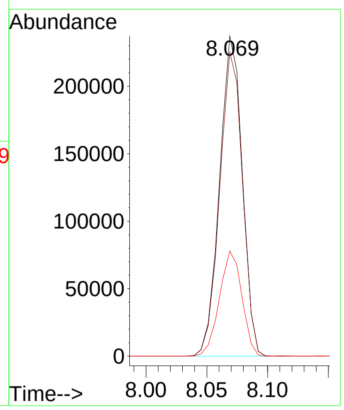
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

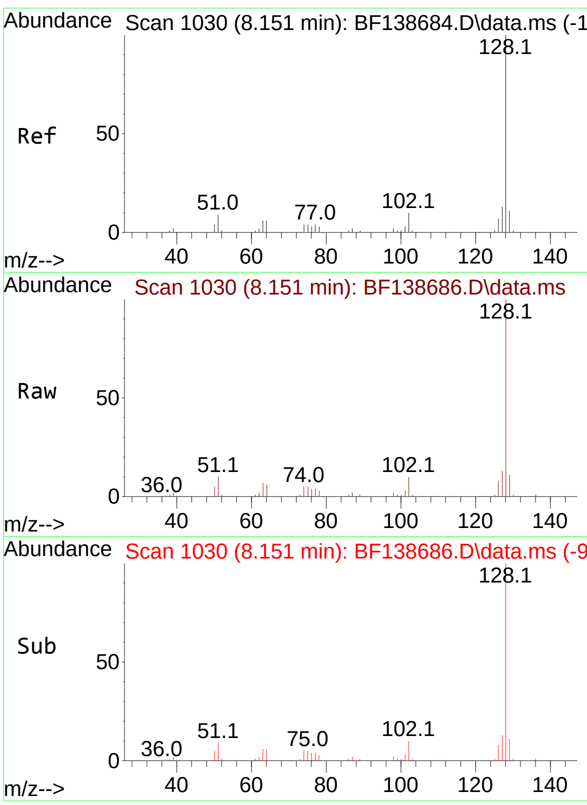


#30
1,2,4-Trichlorobenzene
Concen: 58.085 ng
RT: 8.069 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:180 Resp: 308922

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.9	115.3
145	32.9	25.0	37.4

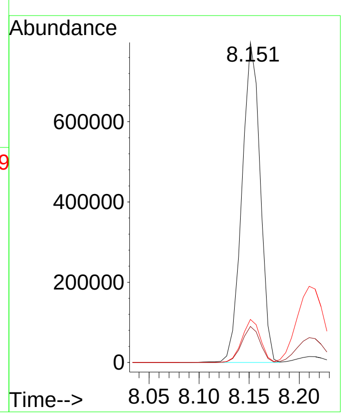




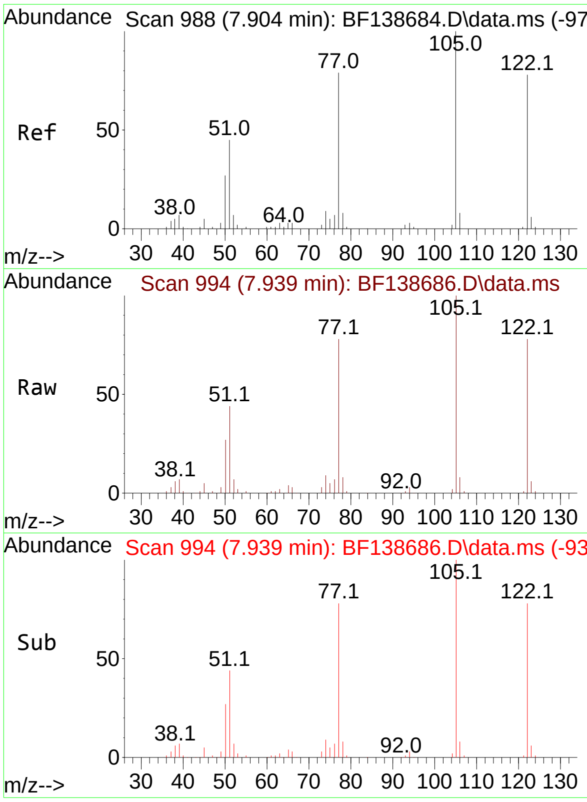
#31
Naphthalene
Concen: 57.817 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:128 Resp: 1018783

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.7	13.1
127	13.5	10.6	16.0



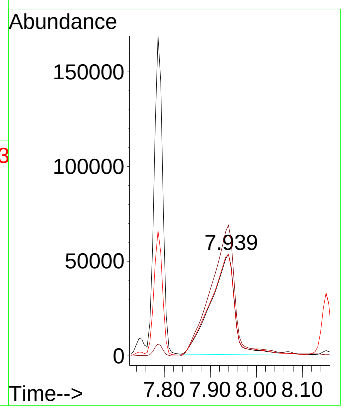
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

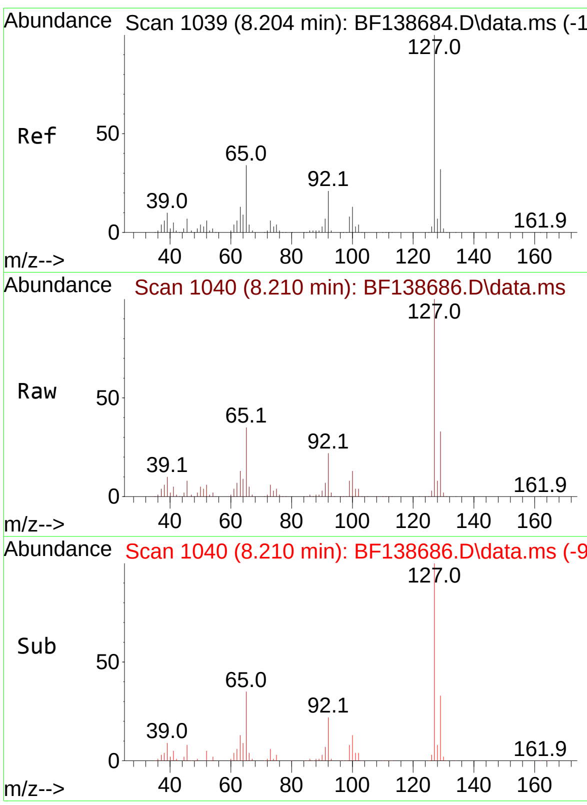


#32
Benzoic acid
Concen: 67.875 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.035 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:122 Resp: 191273

Ion	Ratio	Lower	Upper
122	100		
105	128.7	106.7	146.7
77	100.2	81.1	121.1

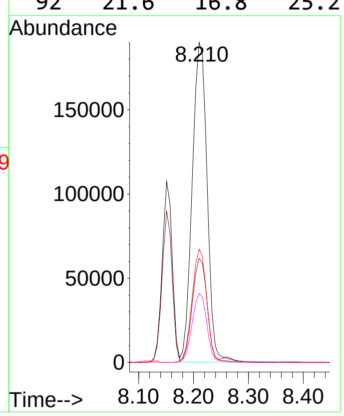




#33
4-Chloroaniline
Concen: 60.700 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

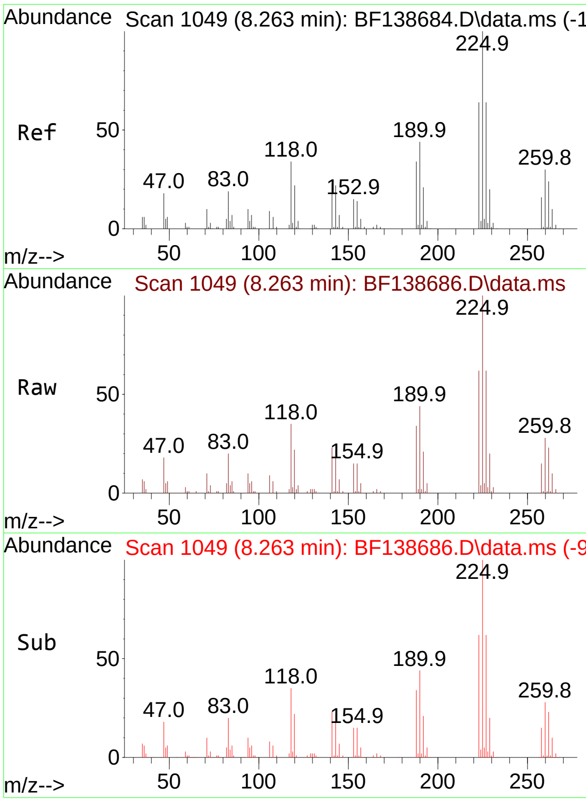
Tgt Ion:127 Resp: 359031

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.9	38.9
65	35.4	27.6	41.4
92	21.6	16.8	25.2



ICAL Form

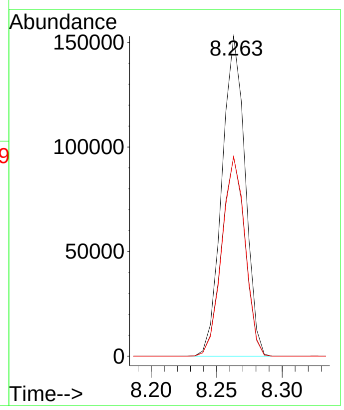
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

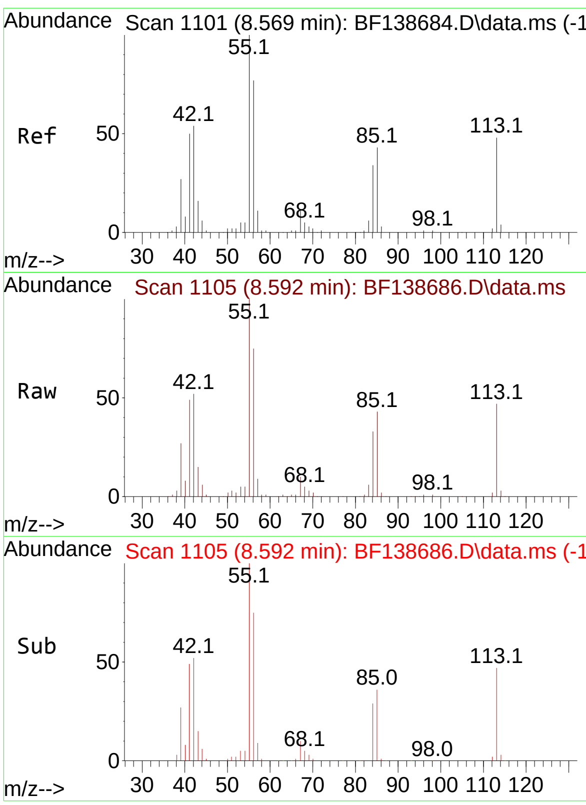


#34
Hexachlorobutadiene
Concen: 58.445 ng
RT: 8.263 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:225 Resp: 188273

Ion	Ratio	Lower	Upper
225	100		
223	62.4	51.2	76.8
227	62.3	51.1	76.7

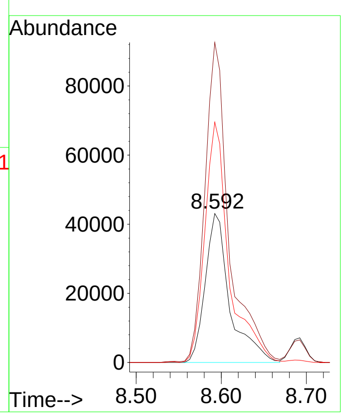




#35
Caprolactam
Concen: 63.184 ng
RT: 8.592 min Scan# 1105
Delta R.T. 0.023 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

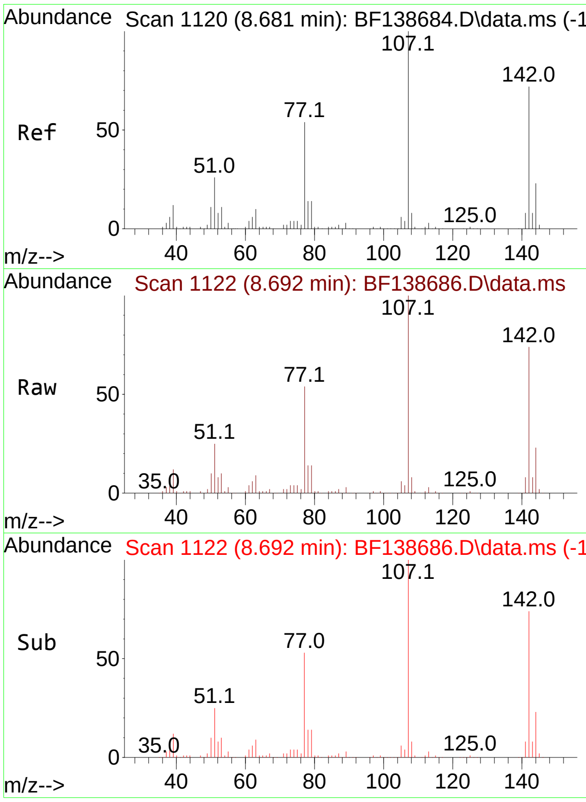
Tgt Ion:113 Resp: 86887

Ion	Ratio	Lower	Upper
113	100		
55	214.9	186.7	226.7
56	161.4	138.9	178.9



ICAL Form

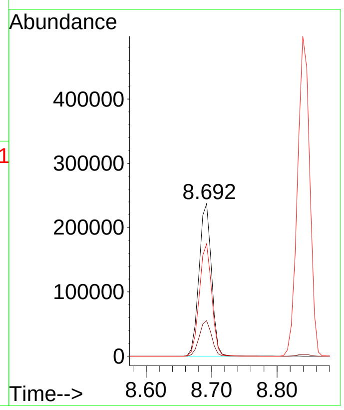
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

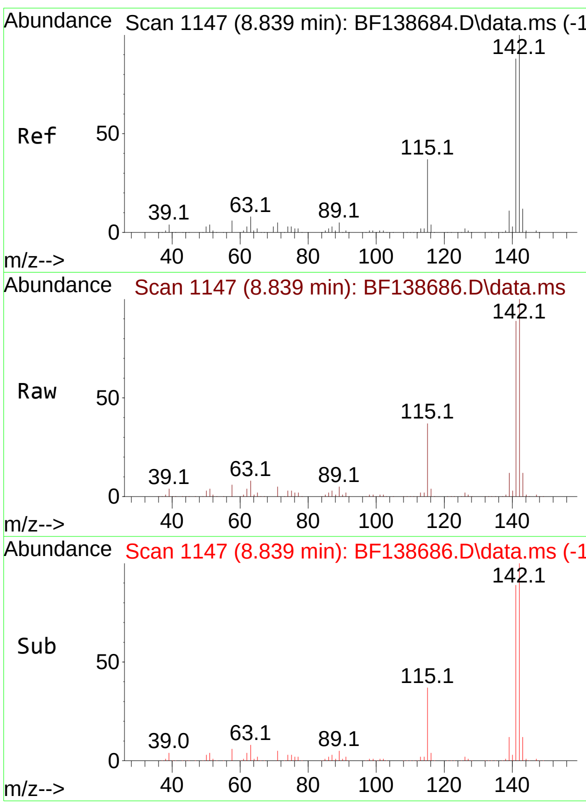


#36
4-Chloro-3-methylphenol
Concen: 59.904 ng
RT: 8.692 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:107 Resp: 315510

Ion	Ratio	Lower	Upper
107	100		
144	23.3	18.2	27.2
142	73.7	57.4	86.2

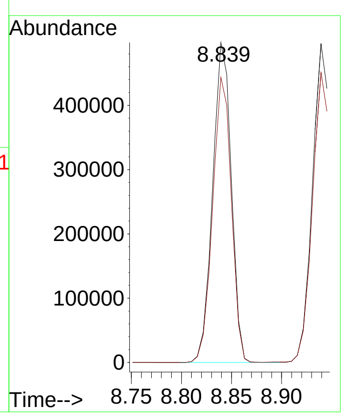




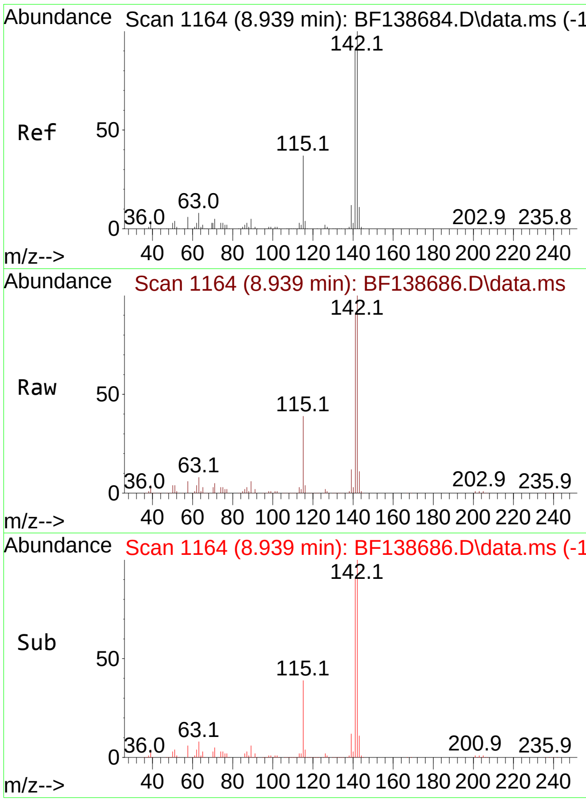
#37
2-Methylnaphthalene
Concen: 57.790 ng
RT: 8.839 min Scan# 1147
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:142 Resp: 643115

Ion	Ratio	Lower	Upper
142	100		
141	89.2	70.8	106.2



ICAL Form

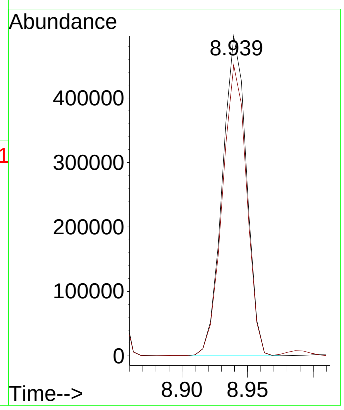


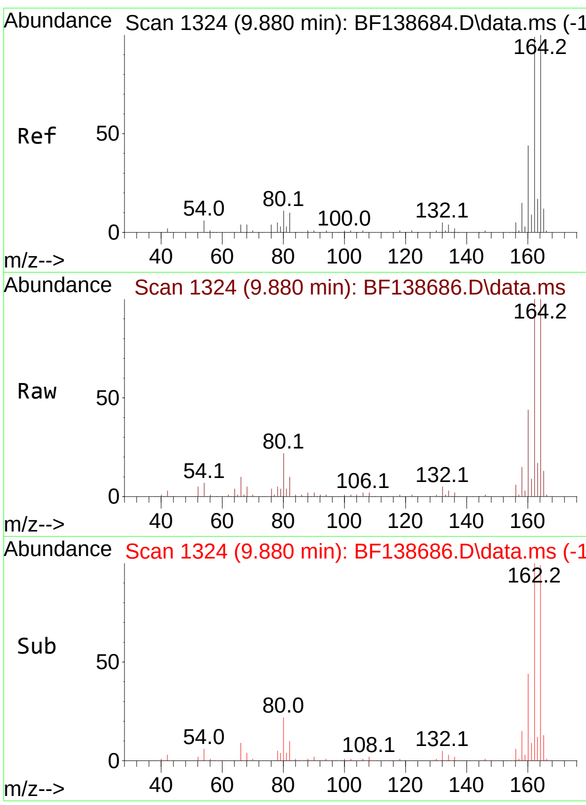
#38
1-Methylnaphthalene
Concen: 58.134 ng
RT: 8.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 633938

Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.1	109.7

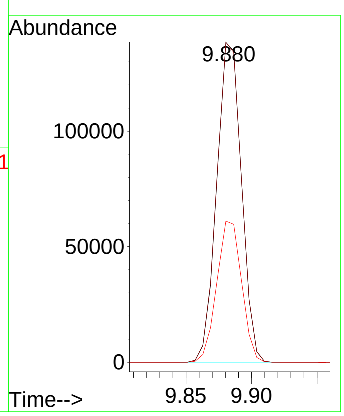




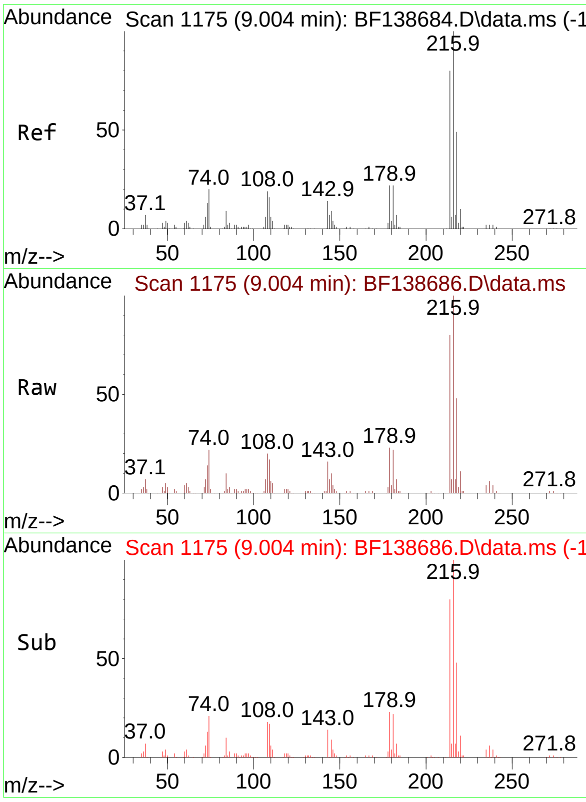
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:164 Resp: 181338

Ion	Ratio	Lower	Upper
164	100		
162	100.0	79.4	119.0
160	44.1	35.1	52.7



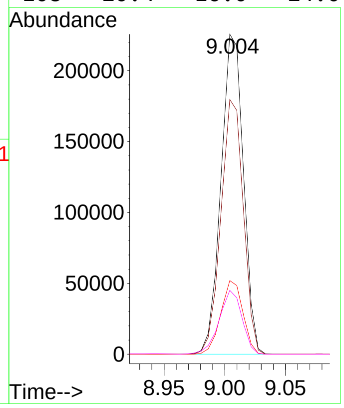
Instrument : BNA_F
ClientSampleId : SSTDICC060

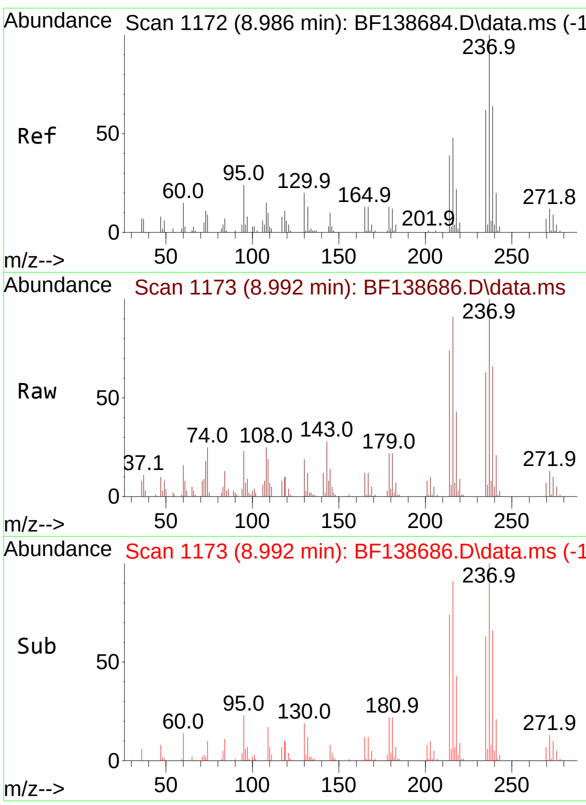


#40
1,2,4,5-Tetrachlorobenzene
Concen: 57.629 ng
RT: 9.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:216 Resp: 290297

Ion	Ratio	Lower	Upper
216	100		
214	79.5	63.9	95.9
179	22.7	17.8	26.6
108	20.4	16.0	24.0

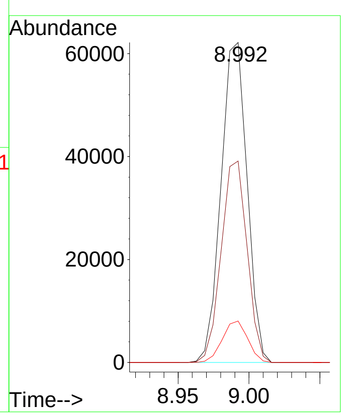




#41
Hexachlorocyclopentadiene
Concen: 61.472 ng
RT: 8.992 min Scan# 1173
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

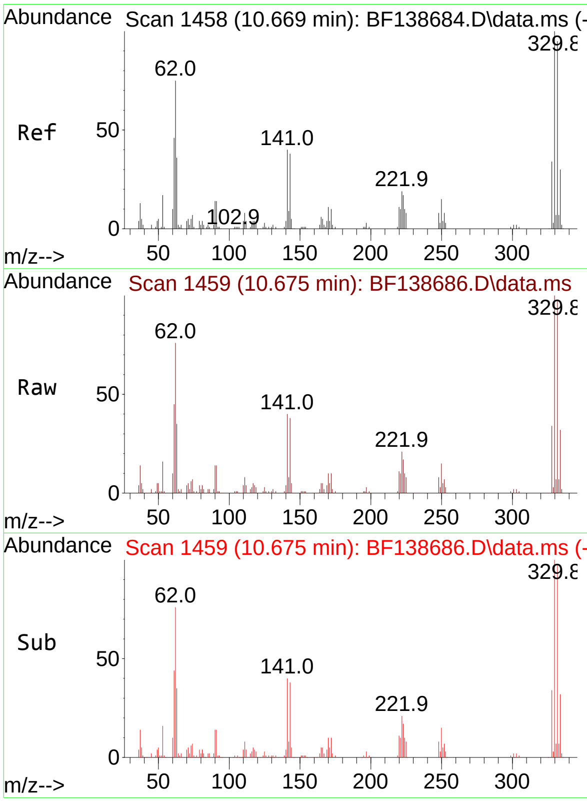
Tgt Ion:237 Resp: 79605

Ion	Ratio	Lower	Upper
237	100		
235	63.0	41.8	81.8
272	13.0	0.0	32.2



ICAL Form

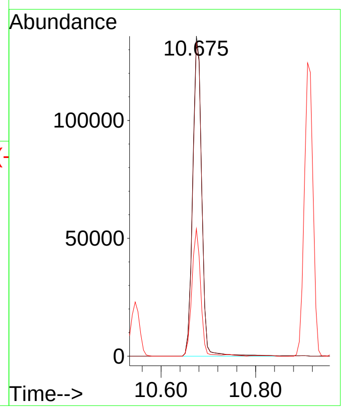
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

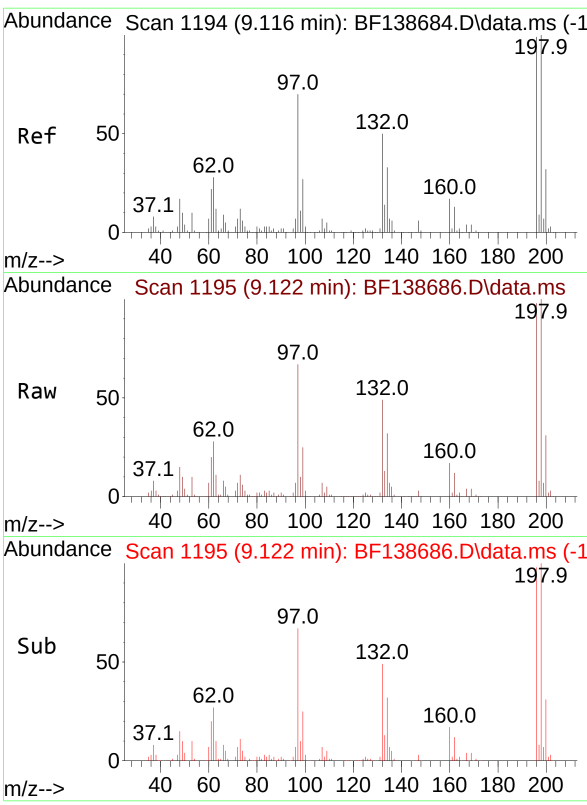


#42
2,4,6-Tribromophenol
Concen: 121.541 ng
RT: 10.675 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:330 Resp: 180537

Ion	Ratio	Lower	Upper
330	100		
332	97.4	76.4	114.6
141	38.5	31.1	46.7

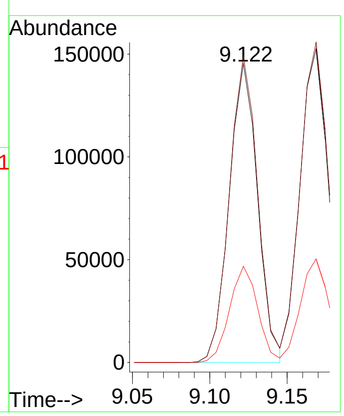




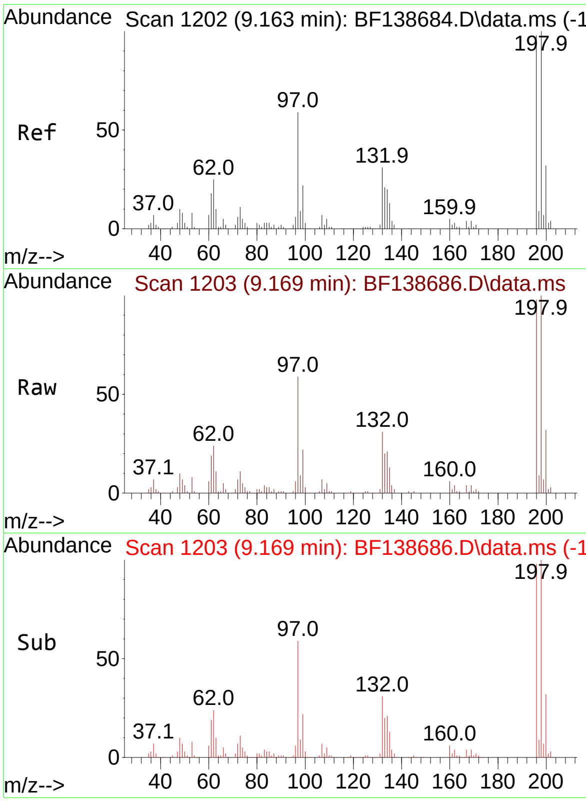
#43
2,4,6-Trichlorophenol
Concen: 60.432 ng
RT: 9.122 min Scan# 1195
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:196 Resp: 185606

Ion	Ratio	Lower	Upper
196	100		
198	102.4	80.5	120.7
200	32.1	25.9	38.9



ICAL Form



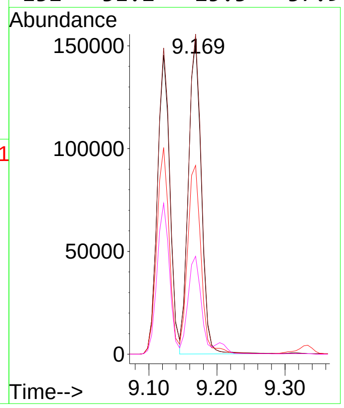
#44
2,4,5-Trichlorophenol
Concen: 59.615 ng
RT: 9.169 min Scan# 1

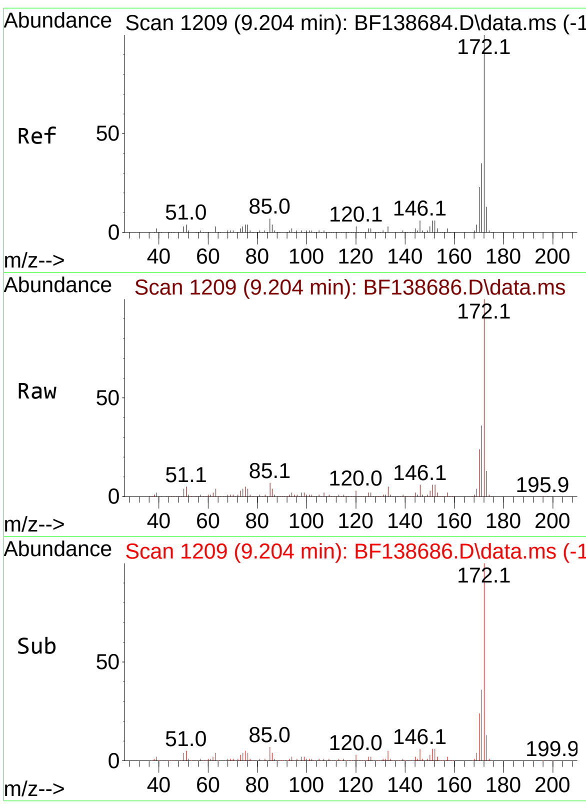
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:196 Resp: 200163

Ion	Ratio	Lower	Upper
196	100		
198	102.1	81.2	121.8
97	60.2	47.8	71.6
132	31.2	25.3	37.9

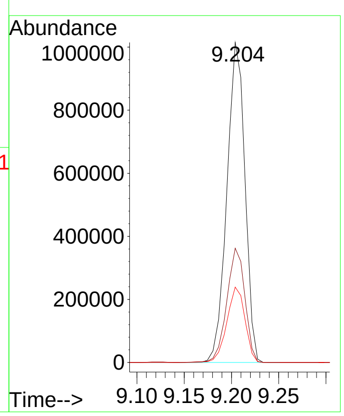




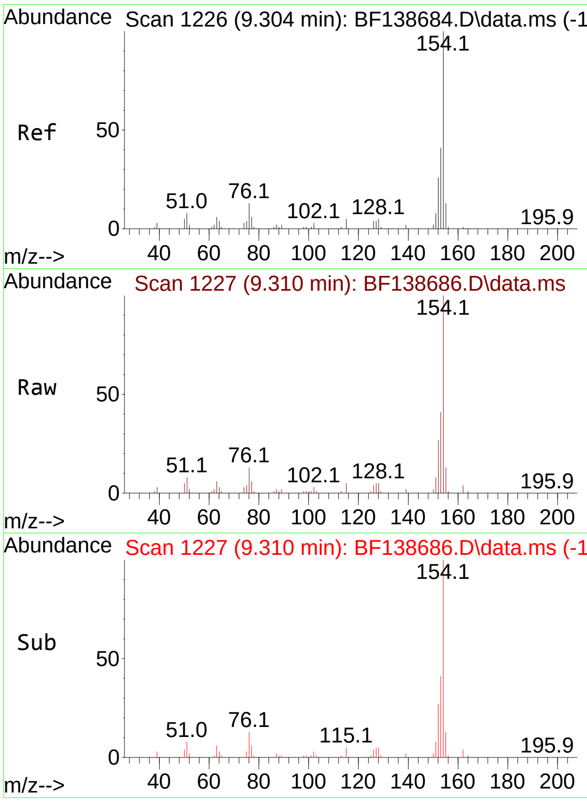
#45
2-Fluorobiphenyl
Concen: 111.967 ng
RT: 9.204 min Scan# 1209
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:172 Resp: 1351342

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.3	42.5
170	23.6	18.8	28.2



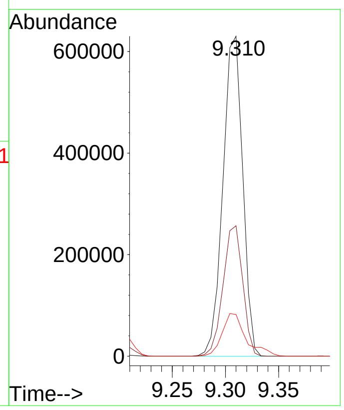
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

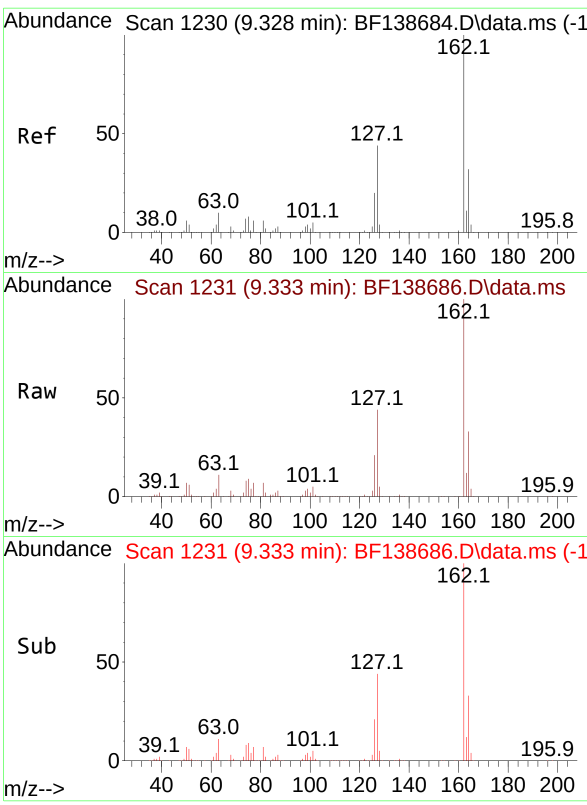


#46
1,1'-Biphenyl
Concen: 57.355 ng
RT: 9.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:154 Resp: 814566

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.8	60.8
76	13.1	0.0	32.8

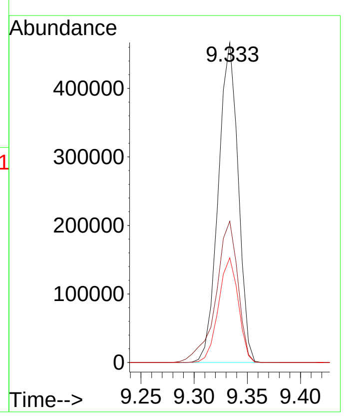




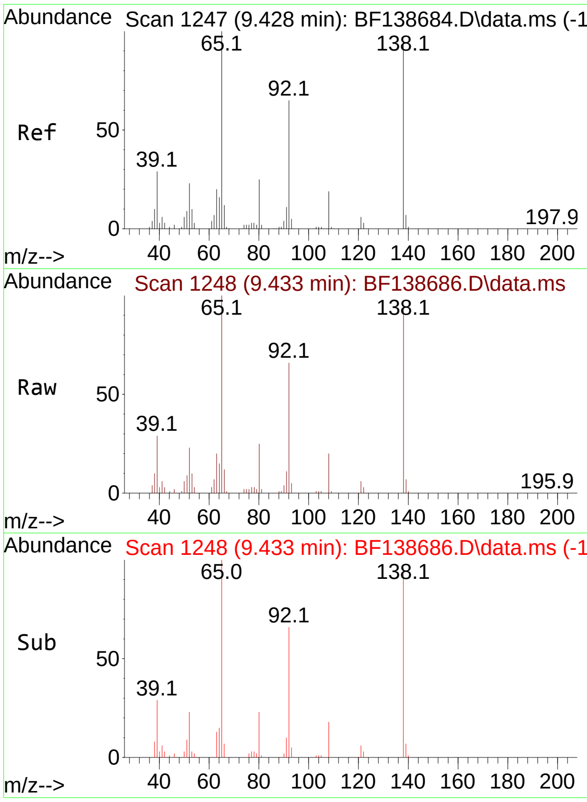
#47
2-Chloronaphthalene
Concen: 57.372 ng
RT: 9.333 min Scan# 1231
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:162 Resp: 605996

Ion	Ratio	Lower	Upper
162	100		
127	44.1	35.4	53.2
164	32.7	25.6	38.4



ICAL Form

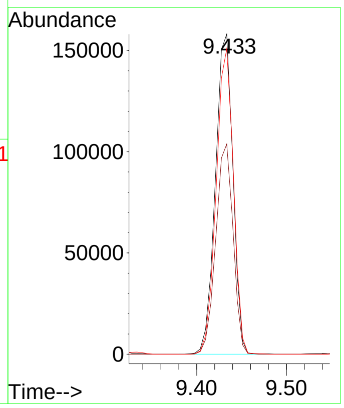


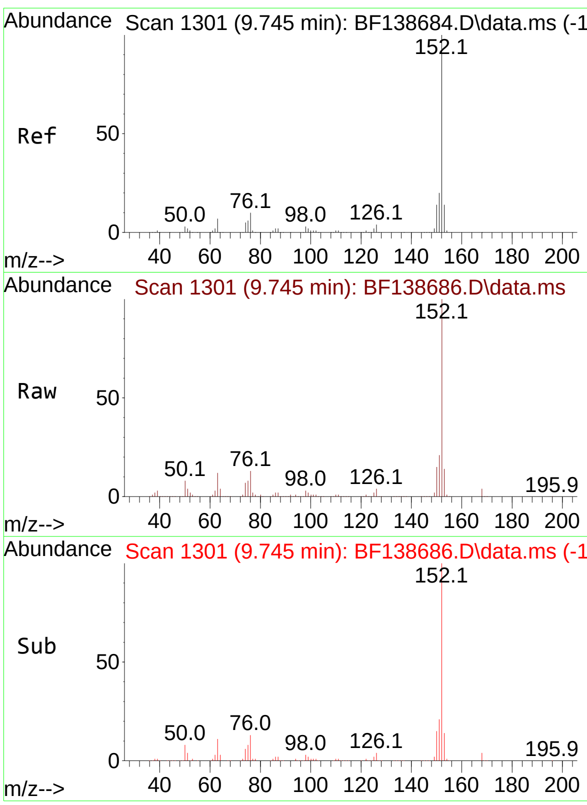
#48
2-Nitroaniline
Concen: 59.957 ng
RT: 9.433 min   Scan# 1
Delta R.T.   0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024   15:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 65 Resp: 214695

Ion	Ratio	Lower	Upper
65	100		
92	65.7	52.0	78.0
138	95.4	76.2	114.4

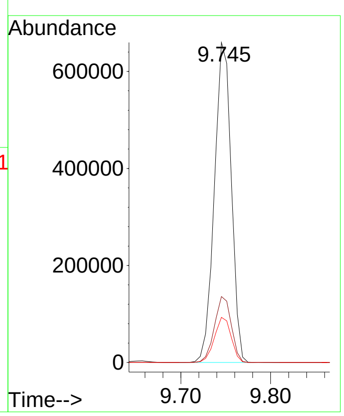




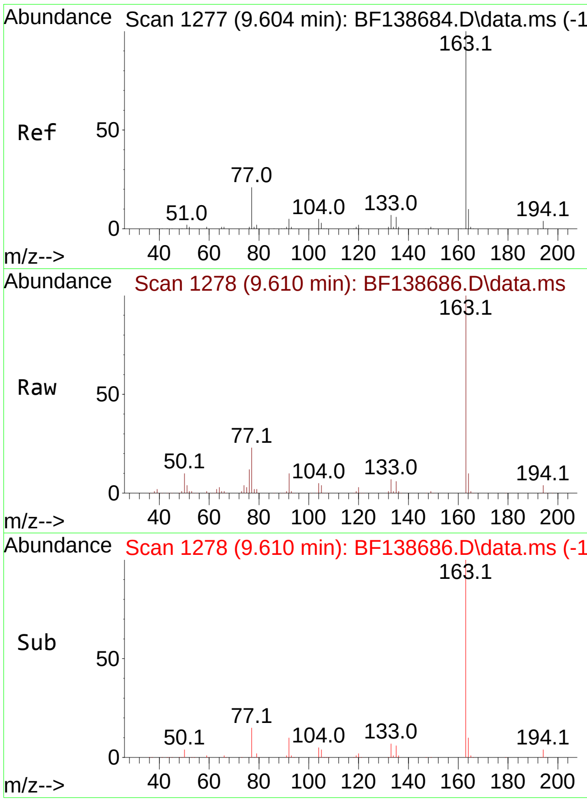
#49
Acenaphthylene
Concen: 57.648 ng
RT: 9.745 min   Scan# 1301
Delta R.T.   -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024   15:58

Tgt Ion:152 Resp: 863615

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.0	24.0
153	14.1	11.0	16.4



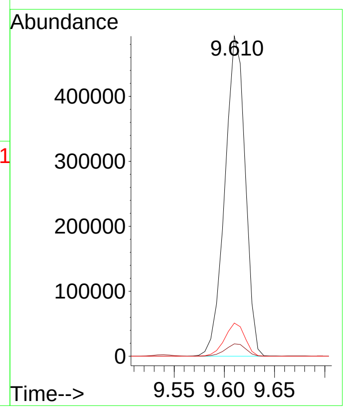
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

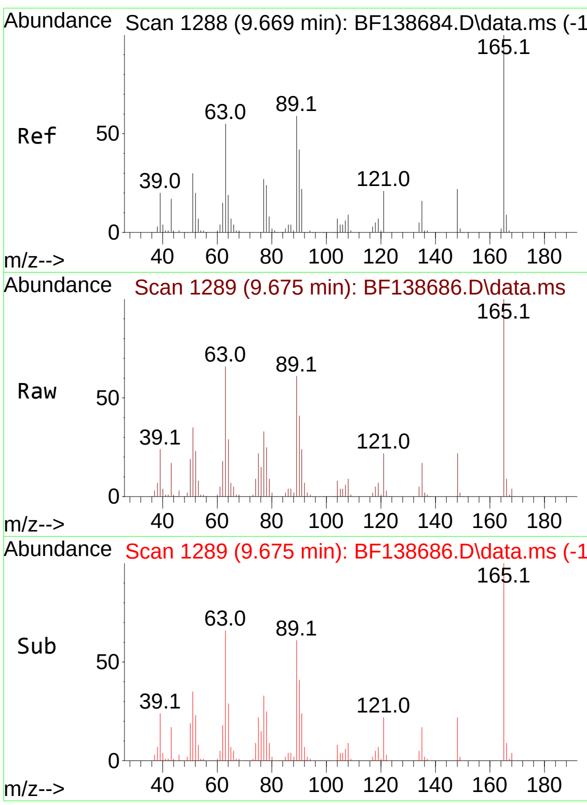


#50
Dimethylphthalate
Concen: 59.957 ng
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:163 Resp: 695202

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.3	7.8	11.8

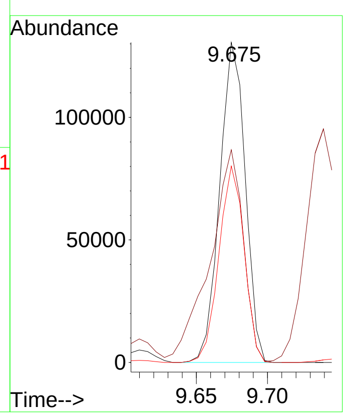




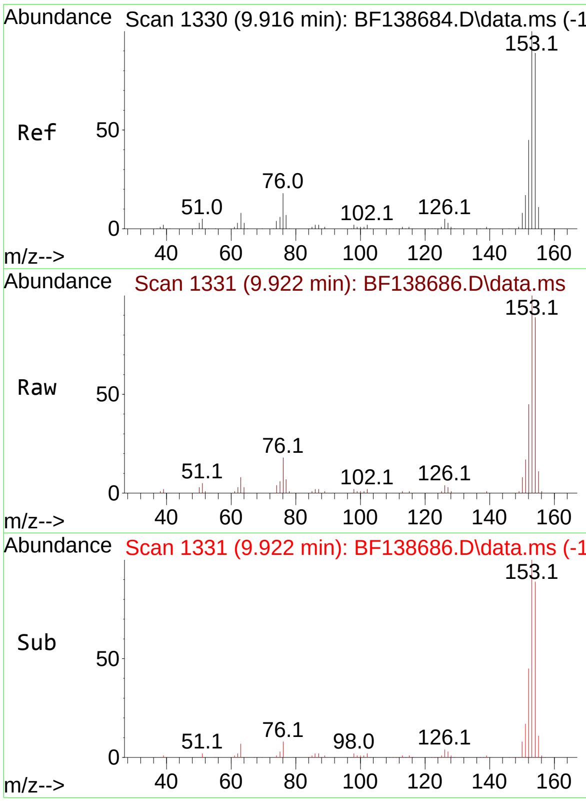
#51
2,6-Dinitrotoluene
Concen: 62.290 ng
RT: 9.675 min Scan# 1289
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:165 Resp: 163000

Ion	Ratio	Lower	Upper
165	100		
63	66.5	52.0	78.0
89	61.3	47.0	70.6



ICAL Form



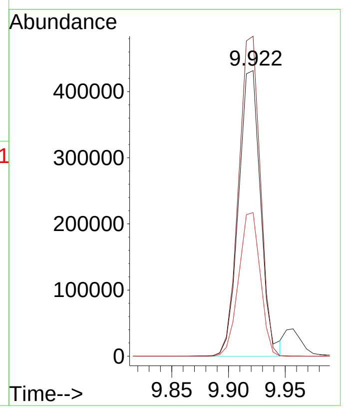
#52
Acenaphthene
Concen: 57.743 ng
RT: 9.922 min Scan# 1

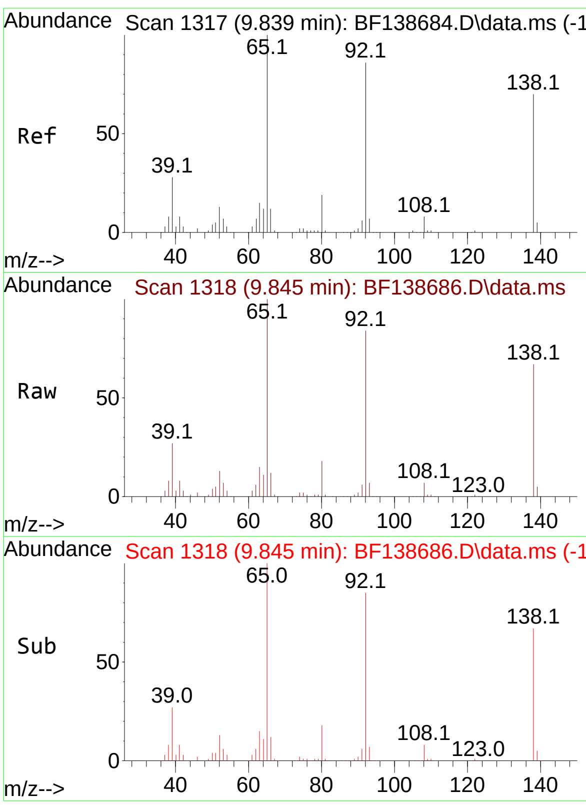
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:154 Resp: 581492

Ion	Ratio	Lower	Upper
154	100		
153	112.0	89.9	134.9
152	50.3	40.6	60.8

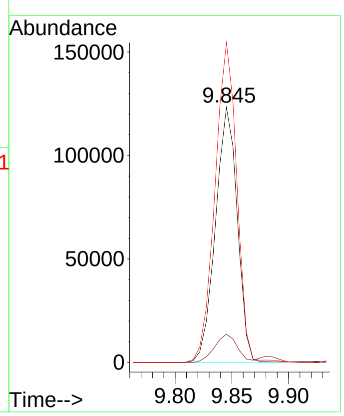


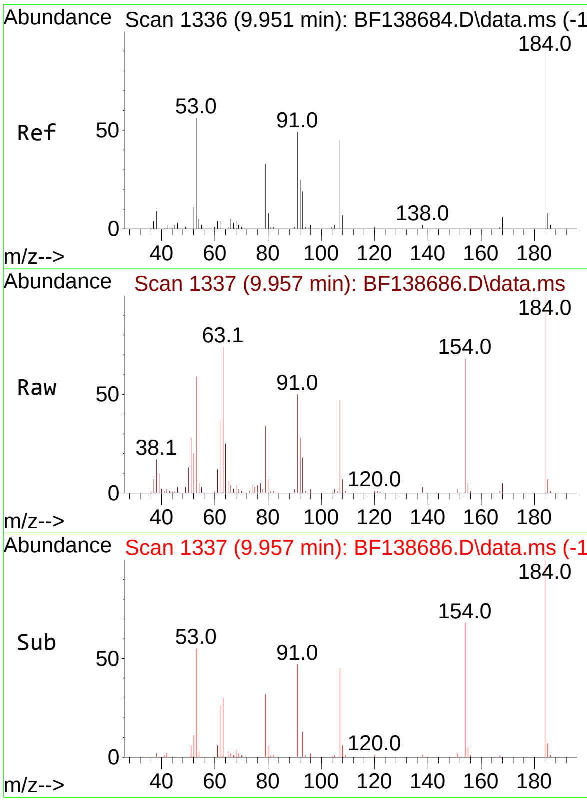


#53
3-Nitroaniline
Concen: 61.007 ng
RT: 9.845 min Scan# 1318
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:138 Resp: 165034

Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.1	13.7
92	125.5	98.7	148.1





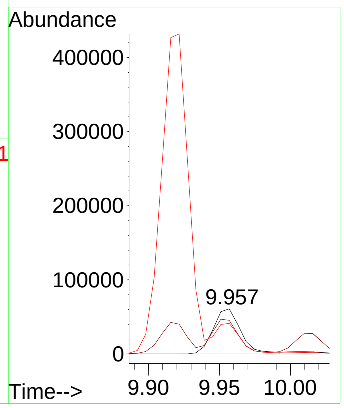
#54
2,4-Dinitrophenol
Concen: 68.448 ng
RT: 9.957 min Scan# 1

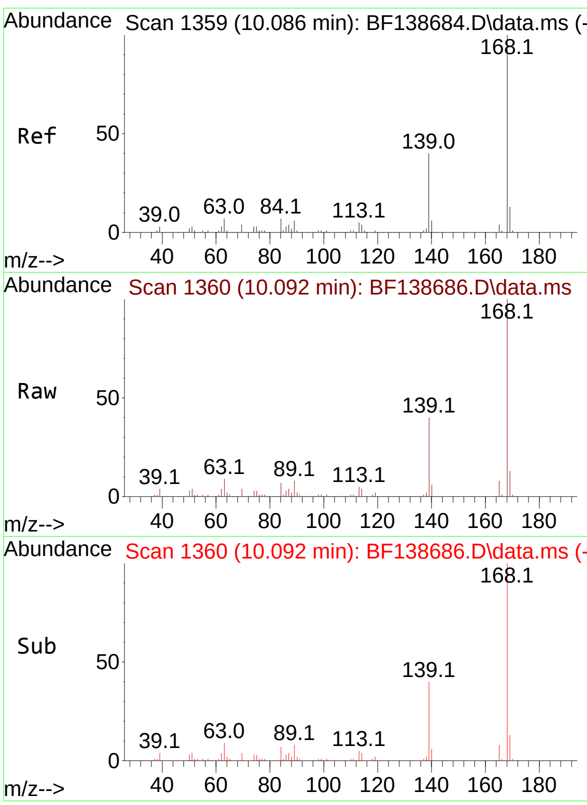
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:184 Resp: 82451

Ion	Ratio	Lower	Upper
184	100		
63	74.4	57.5	86.3
154	68.0	51.7	77.5

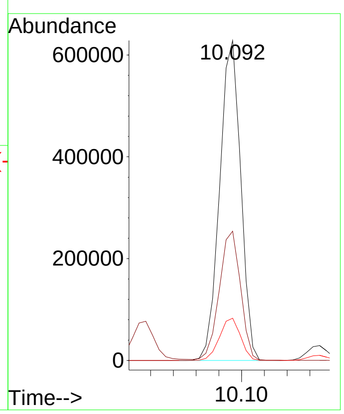




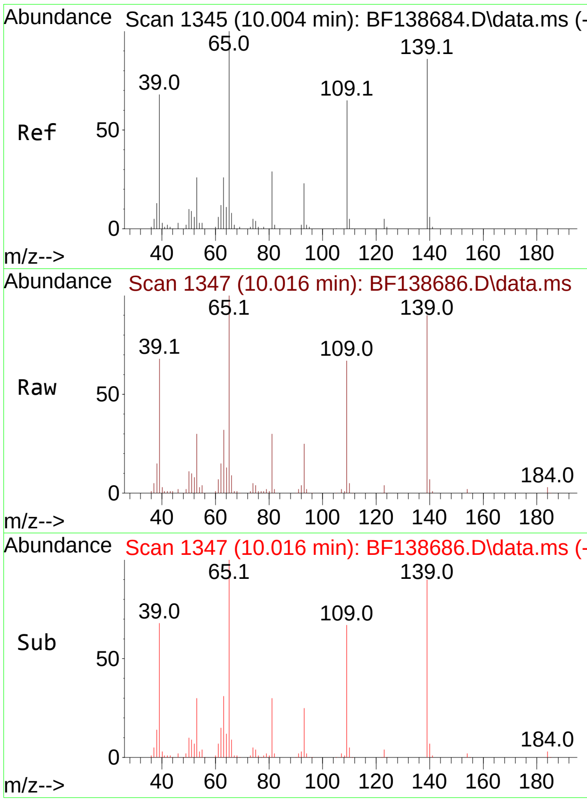
#55
Dibenzofuran
Concen: 56.948 ng
RT: 10.092 min Scan# 1360
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:168 Resp: 809534

Ion	Ratio	Lower	Upper
168	100		
139	40.4	32.6	49.0
169	13.2	10.7	16.1



ICAL Form

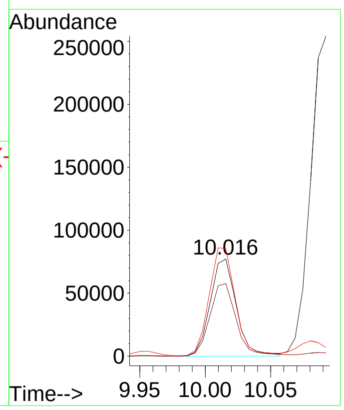


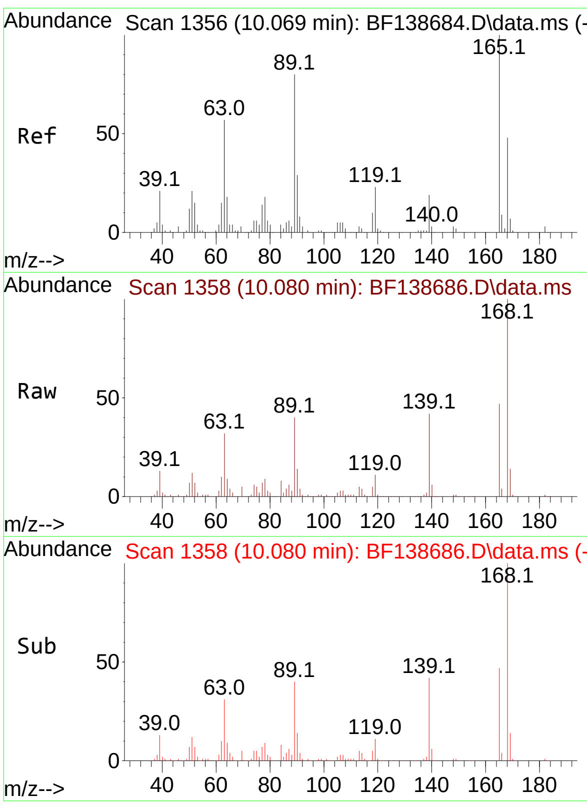
#56
4-Nitrophenol
Concen: 65.807 ng
RT: 10.016 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:139 Resp: 107052

Ion	Ratio	Lower	Upper
139	100		
109	74.9	55.5	95.5
65	111.0	96.7	136.7

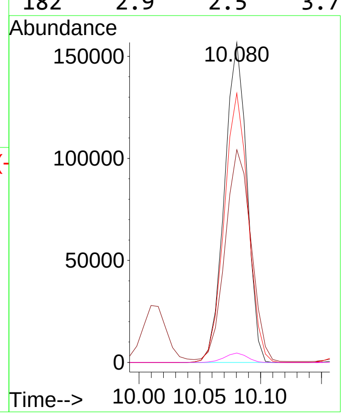




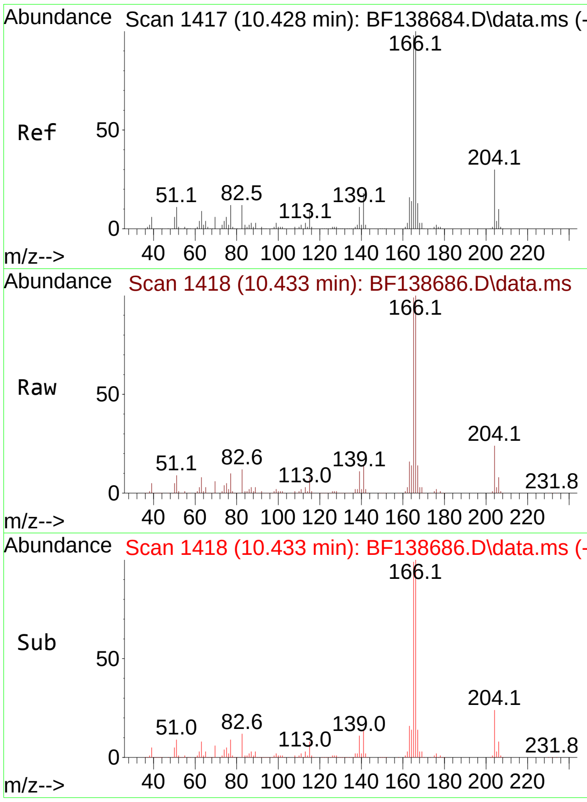
#57
2,4-Dinitrotoluene
Concen: 60.388 ng
RT: 10.080 min Scan# 1358
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:165 Resp: 201610

Ion	Ratio	Lower	Upper
165	100		
63	66.5	46.3	69.5
89	84.2	64.2	96.4
182	2.9	2.5	3.7



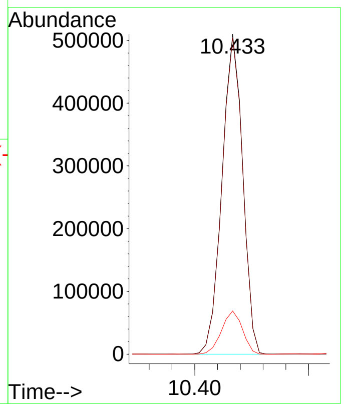
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

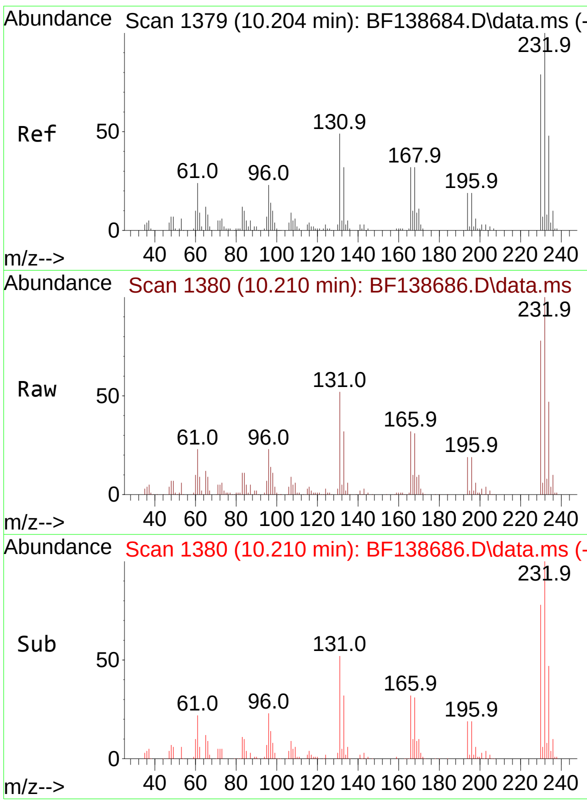


#58
Fluorene
Concen: 57.140 ng
RT: 10.433 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:166 Resp: 646844

Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.4	117.6
167	13.5	10.6	16.0

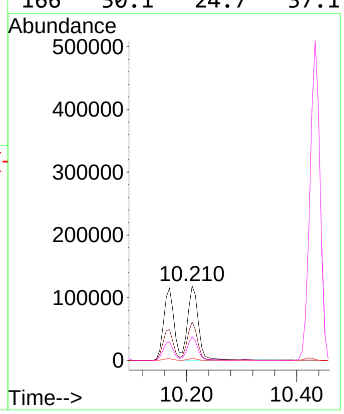




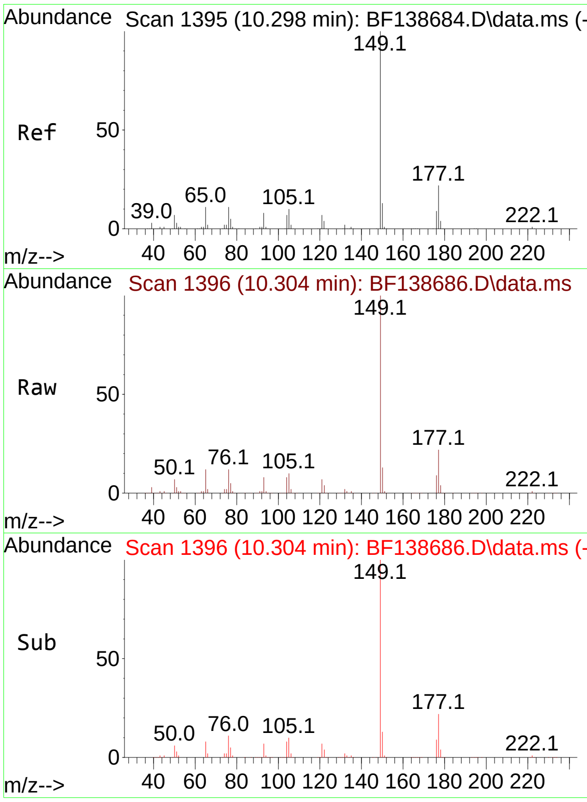
#59
2,3,4,6-Tetrachlorophenol
Concen: 63.494 ng
RT: 10.210 min Scan# 1380
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:232 Resp: 162987

Ion	Ratio	Lower	Upper
232	100		
131	48.9	37.0	55.4
130	2.4	2.0	3.0
166	30.1	24.7	37.1



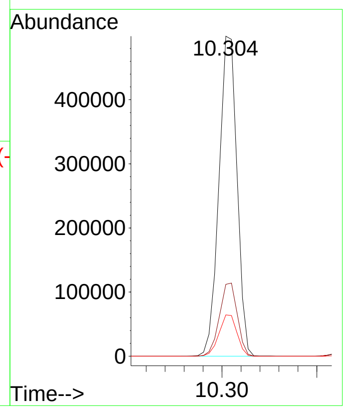
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

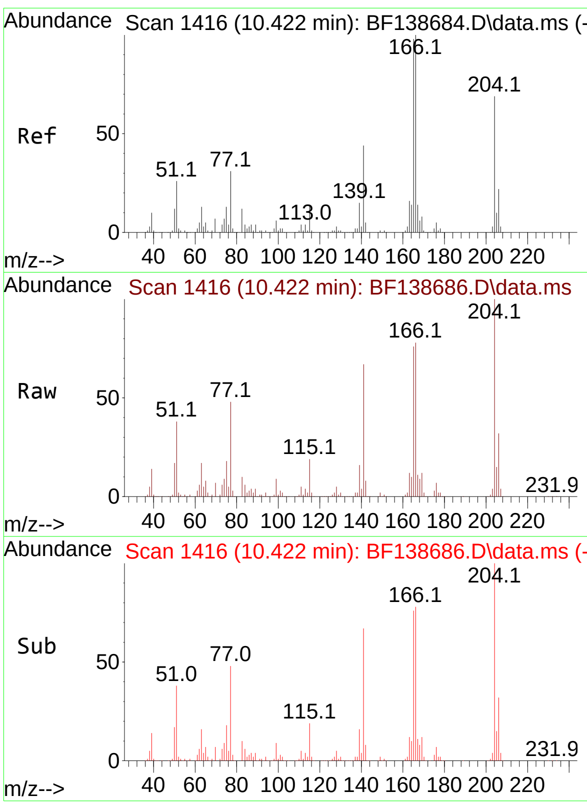


#60
Diethylphthalate
Concen: 60.161 ng
RT: 10.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:149 Resp: 661415

Ion	Ratio	Lower	Upper
149	100		
177	22.5	17.8	26.8
150	12.9	10.1	15.1

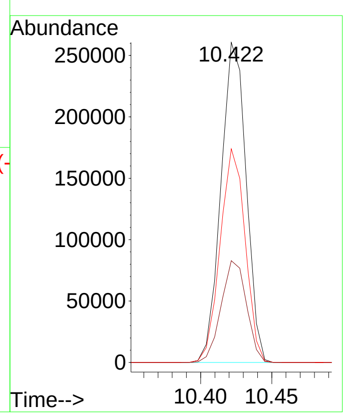




#61
4-Chlorophenyl-phenylether
Concen: 57.740 ng
RT: 10.422 min Scan# 1416
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

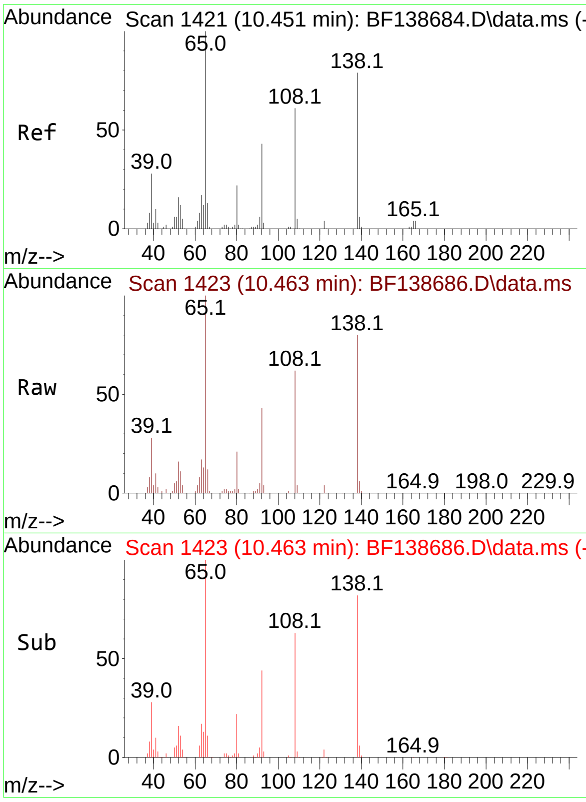
Tgt Ion:204 Resp: 321470

Ion	Ratio	Lower	Upper
204	100		
206	31.8	26.1	39.1
141	66.8	51.4	77.0



ICAL Form

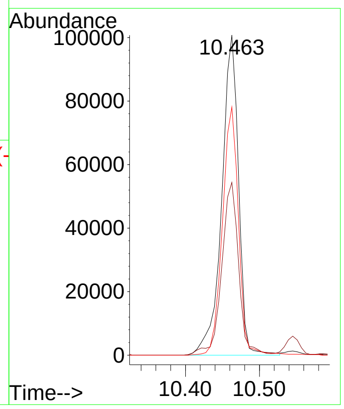
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

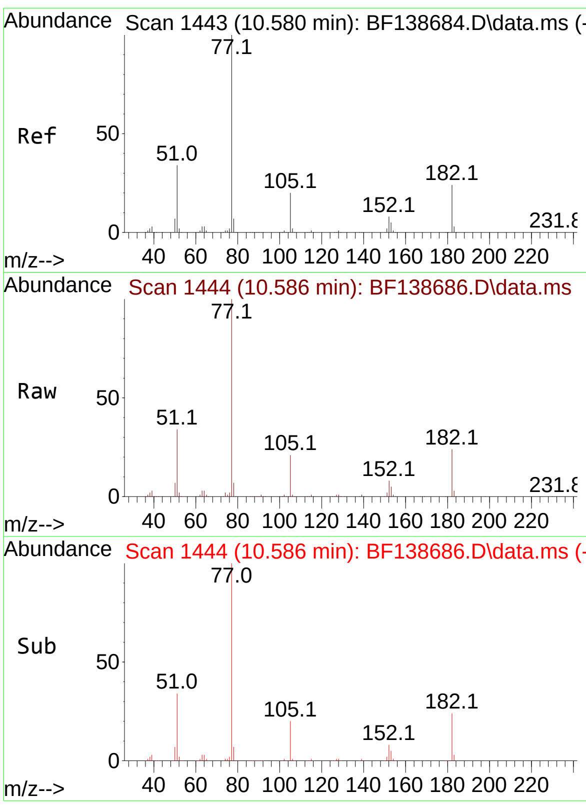


#62
4-Nitroaniline
Concen: 61.881 ng
RT: 10.463 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:138 Resp: 159081

Ion	Ratio	Lower	Upper
138	100		
92	54.0	34.2	74.2
108	77.6	56.2	96.2

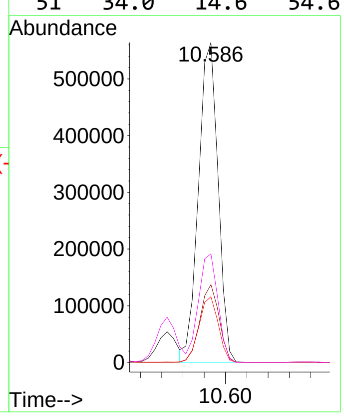




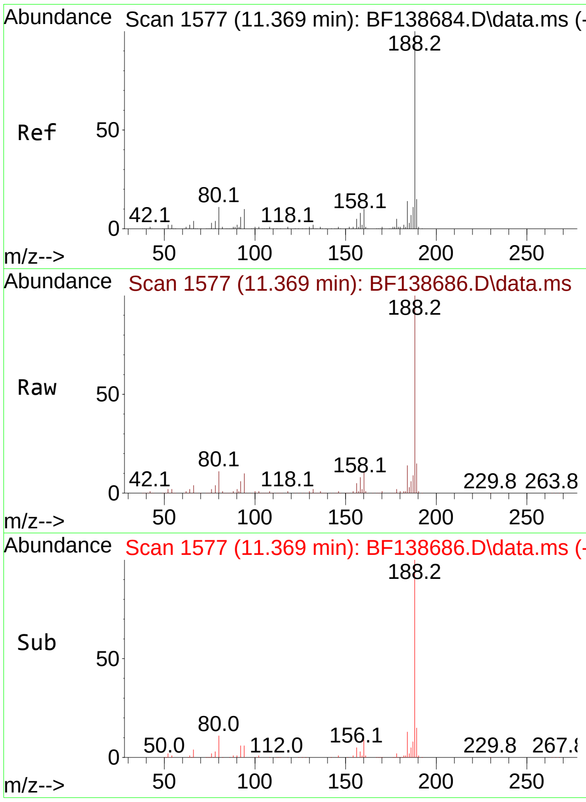
#63
Azobenzene
Concen: 59.288 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 77 Resp: 722929

Ion	Ratio	Lower	Upper
77	100		
182	24.3	3.4	43.4
105	20.5	0.2	40.2
51	34.0	14.6	54.6



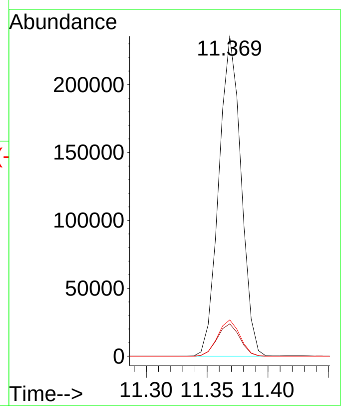
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

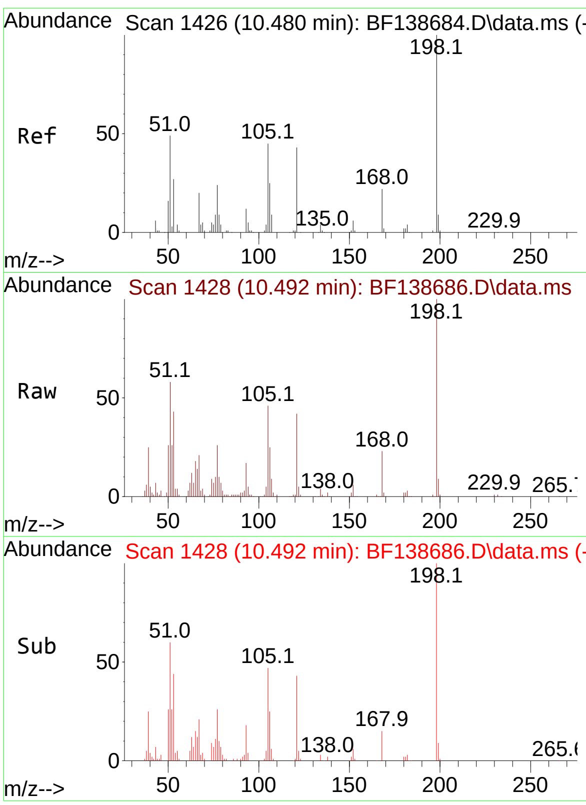


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:188 Resp: 299773

Ion	Ratio	Lower	Upper
188	100		
94	10.1	7.6	11.4
80	11.3	8.6	12.8

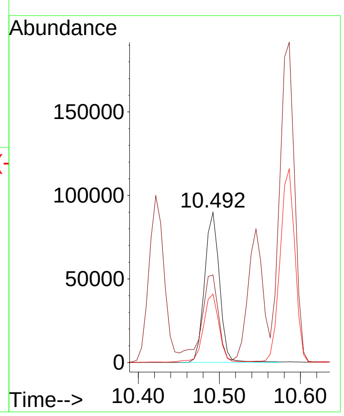




#65
4,6-Dinitro-2-methylphenol
Concen: 62.887 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

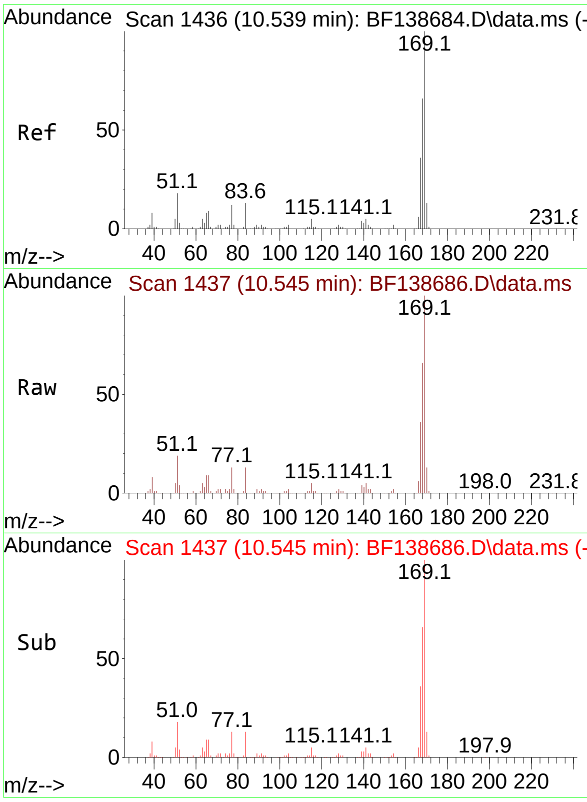
Tgt Ion:198 Resp: 115013

Ion	Ratio	Lower	Upper
198	100		
51	58.4	39.9	79.9
105	45.6	26.1	66.1



ICAL Form

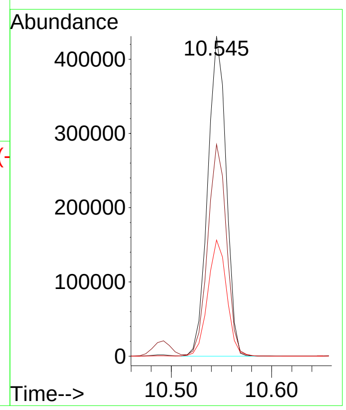
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

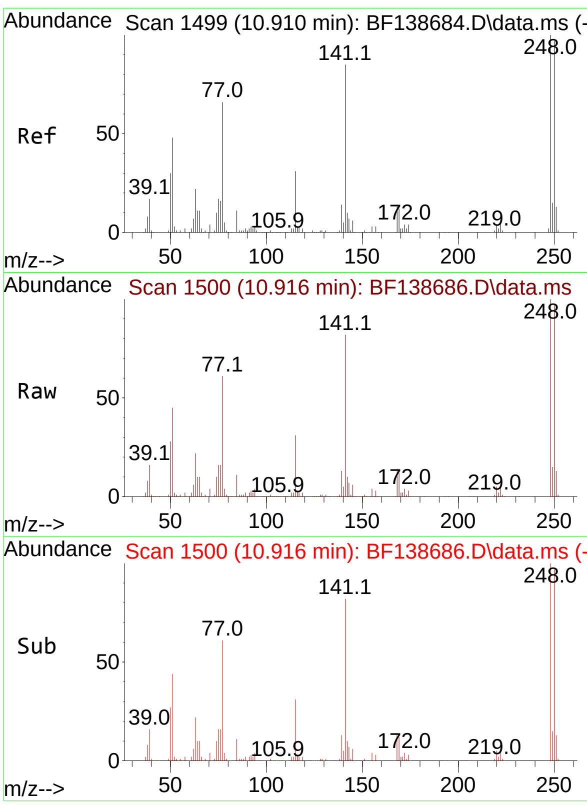


#66
n-Nitrosodiphenylamine
Concen: 58.728 ng
RT: 10.545 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:169 Resp: 550299

Ion	Ratio	Lower	Upper
169	100		
168	66.2	53.0	79.6
167	36.3	29.0	43.6

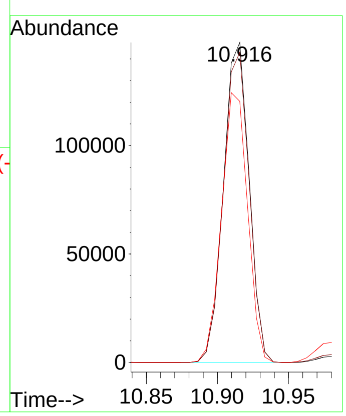




#67
4-Bromophenyl-phenylether
Concen: 57.182 ng
RT: 10.916 min Scan# 1500
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

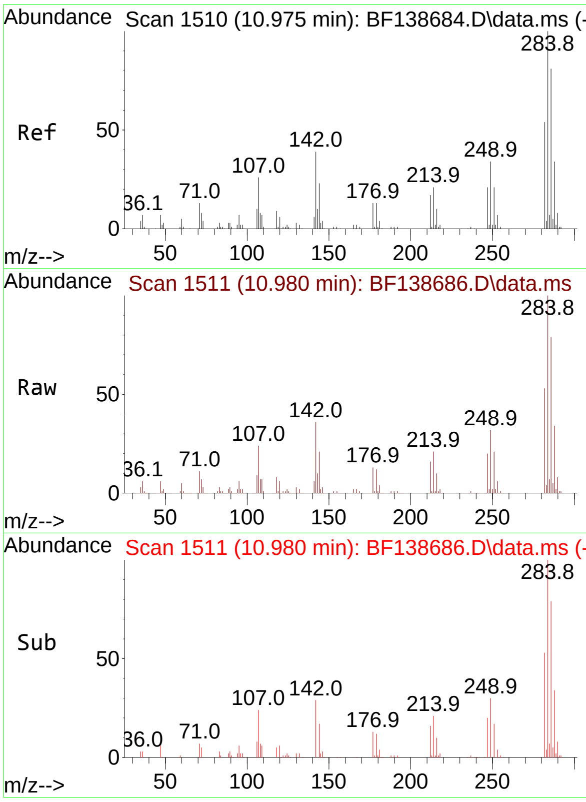
Tgt Ion:248 Resp: 185589

Ion	Ratio	Lower	Upper
248	100		
250	96.9	77.7	116.5
141	81.6	68.0	102.0



ICAL Form

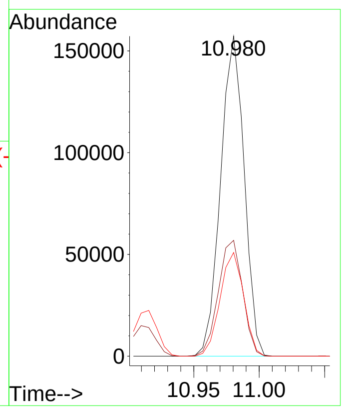
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

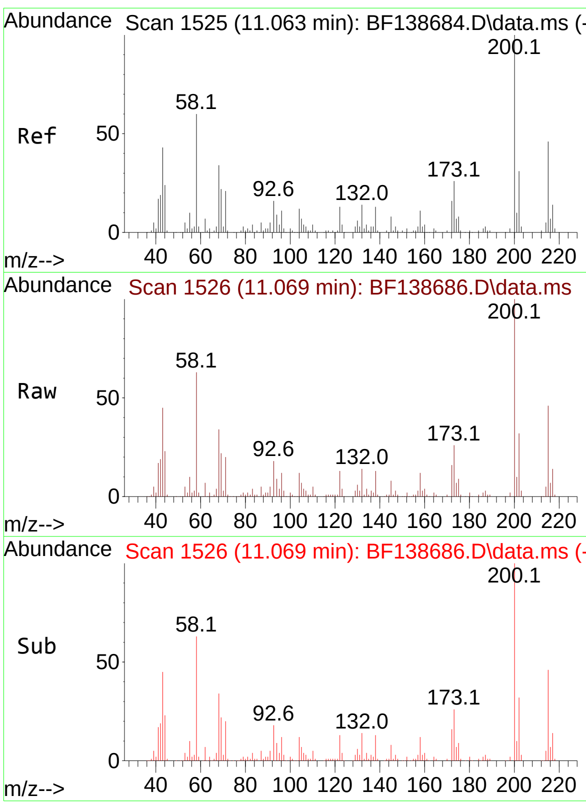


#68
Hexachlorobenzene
Concen: 58.832 ng
RT: 10.980 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:284 Resp: 197152

Ion	Ratio	Lower	Upper
284	100		
142	36.2	31.3	46.9
249	32.4	27.2	40.8

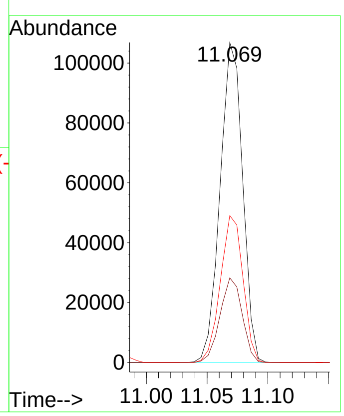




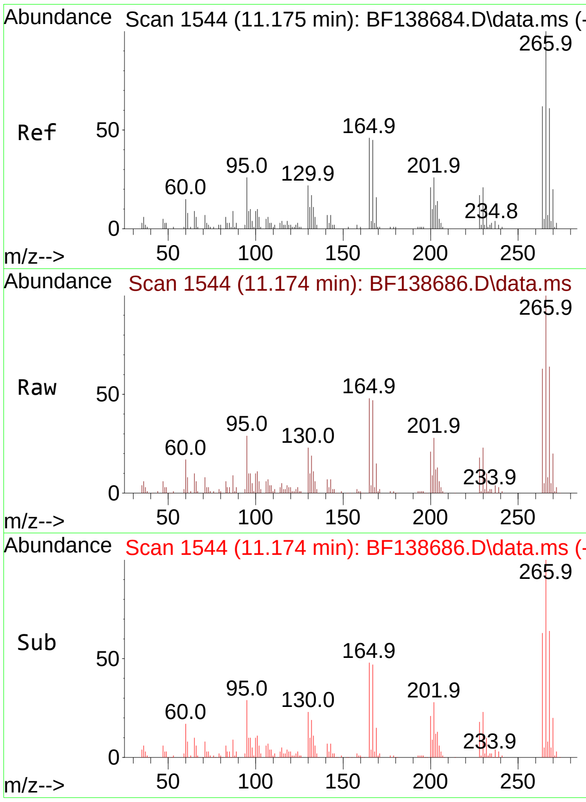
#69
Atrazine
Concen: 57.055 ng
RT: 11.069 min Scan# 1526
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:200 Resp: 137932

Ion	Ratio	Lower	Upper
200	100		
173	26.5	6.0	46.0
215	45.9	26.1	66.1



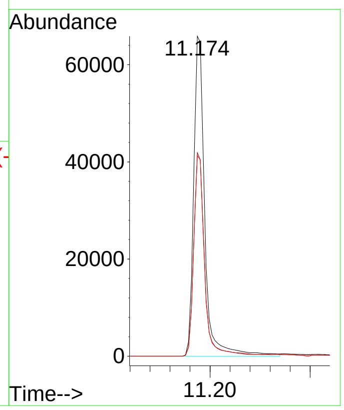
Instrument : BNA_F
ClientSampleId : SSTDICC060

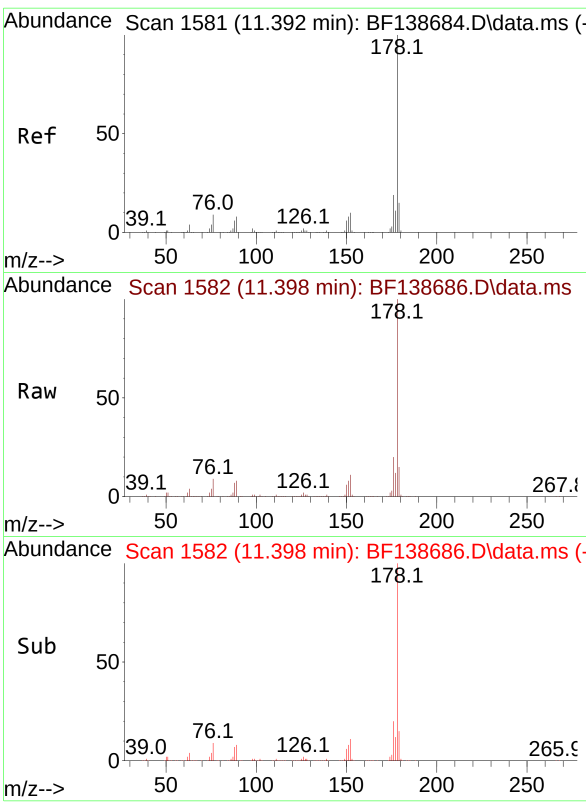


#70
Pentachlorophenol
Concen: 67.437 ng
RT: 11.174 min Scan# 1
Delta R.T. -0.001 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:266 Resp: 101863

Ion	Ratio	Lower	Upper
266	100		
268	63.6	49.2	73.8
264	62.6	49.8	74.6

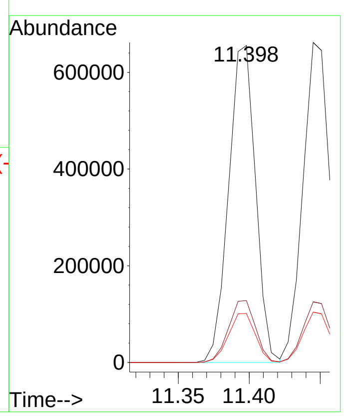




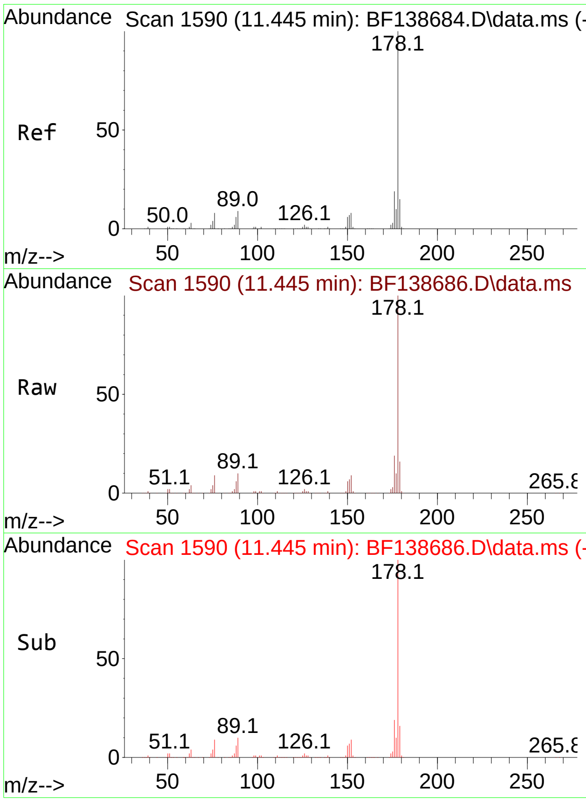
#71
Phenanthrene
Concen: 56.216 ng
RT: 11.398 min Scan# 1582
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:178 Resp: 867741

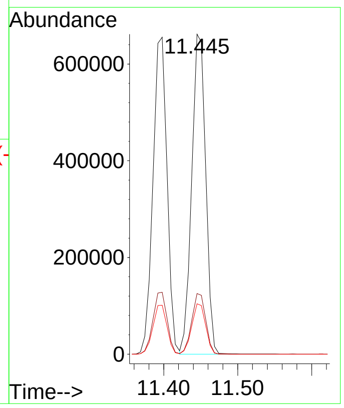
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.0
179	15.4	12.2	18.2

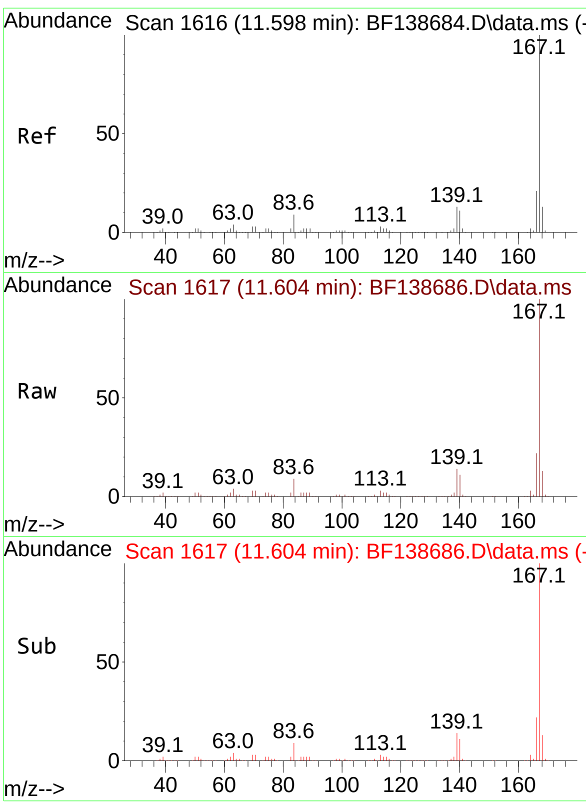


Instrument : BNA_F
ClientSampleId : SSTDICC060

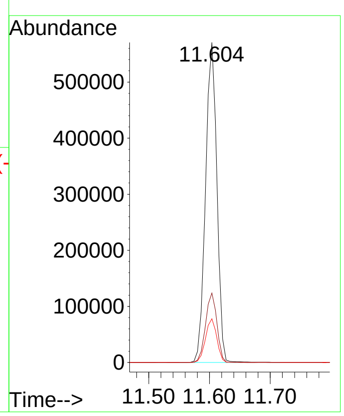



```
#72
Anthracene
Concen:   57.177 ng
RT:  11.445 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   BF138686.D
Acq: 30 Jul 2024  15:58

Tgt Ion:178 Resp:  869464
Ion  Ratio  Lower  Upper
178  100
176   19.0   14.9   22.3
179   15.8   12.4   18.6
```

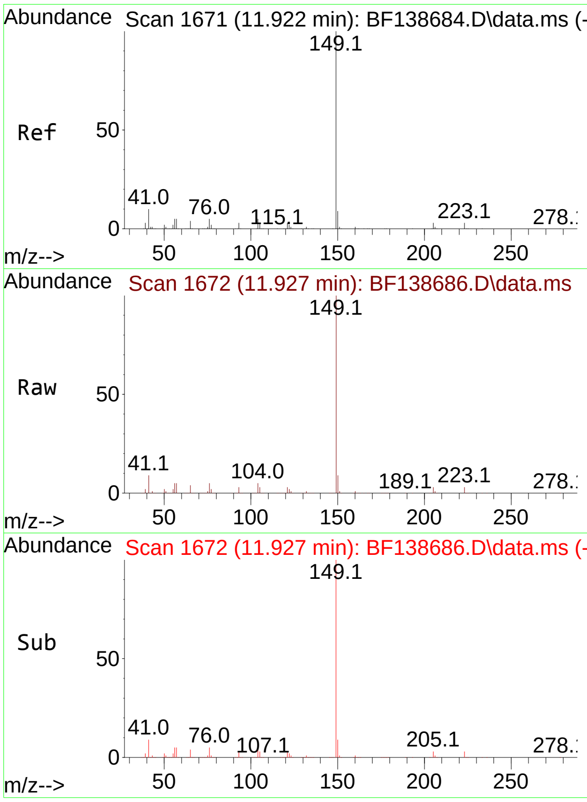





```
#73
Carbazole
Concen:   56.558 ng
RT:  11.604 min  Scan# 1617
Delta R.T.  0.006 min
Lab File:   BF138686.D
Acq: 30 Jul 2024  15:58

Tgt Ion:167 Resp:  742002
Ion  Ratio  Lower  Upper
167  100
166   21.7   17.2   25.8
139   13.7   10.6   16.0
```



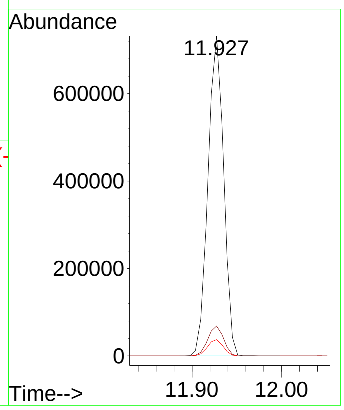
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

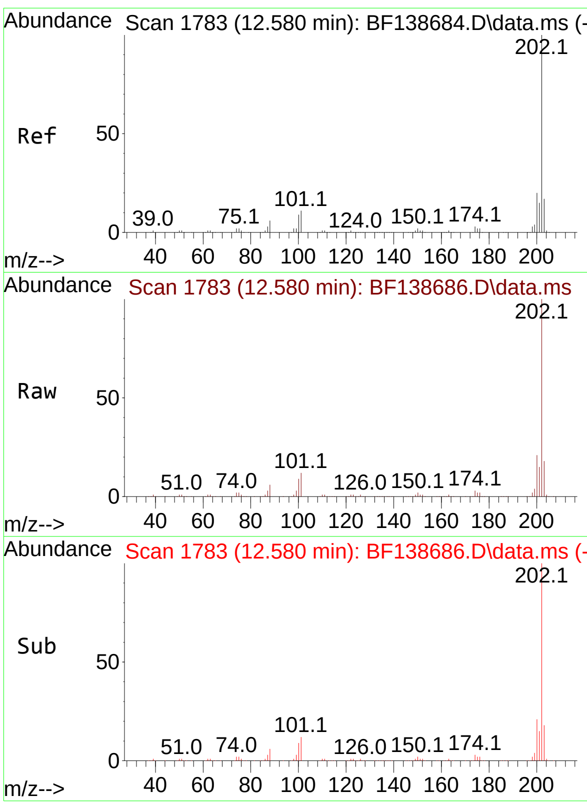


#74
Di-n-butylphthalate
Concen: 60.481 ng
RT: 11.927 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:149 Resp: 891999

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.0
104	5.1	4.1	6.1

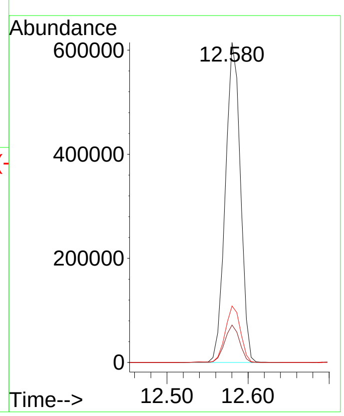




#75
Fluoranthene
Concen: 55.309 ng
RT: 12.580 min Scan# 1783
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

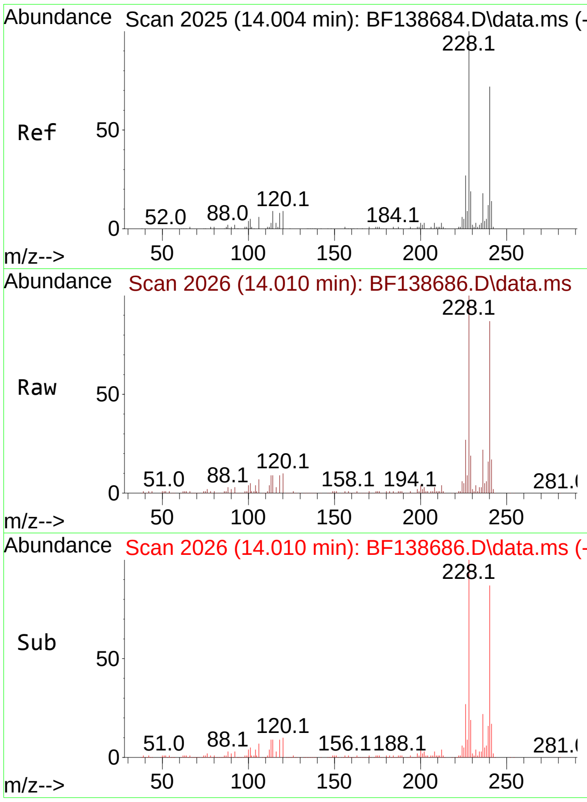
Tgt Ion:202 Resp: 797022

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	31.2
203	17.7	0.0	37.3



ICAL Form

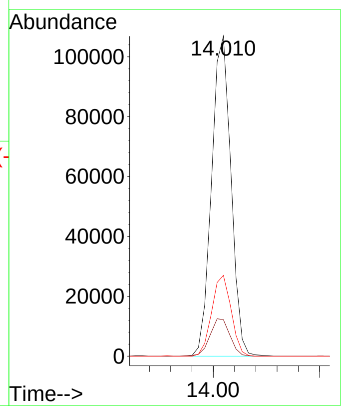
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

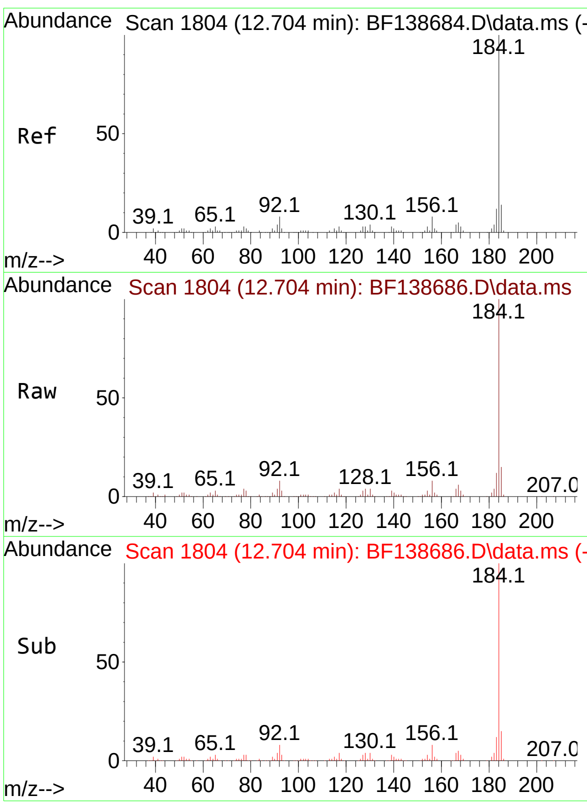


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:240 Resp: 135234

Ion	Ratio	Lower	Upper
240	100		
120	11.4	10.2	15.4
236	25.3	19.8	29.8

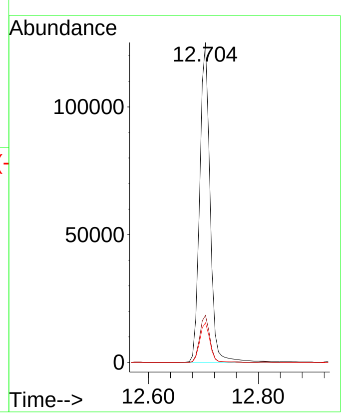




#77
Benzidine
Concen: 51.170 ng
RT: 12.704 min Scan# 1804
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

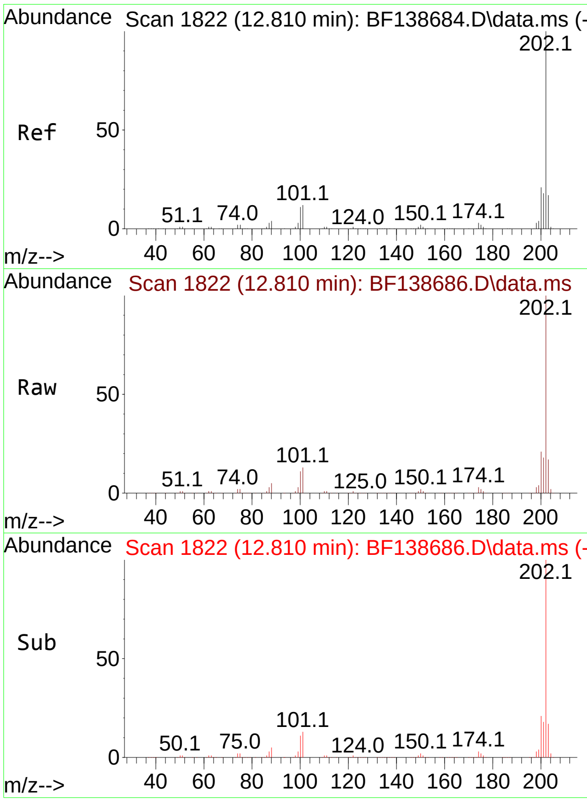
Tgt Ion:184 Resp: 165511

Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.1	16.7
183	12.4	9.6	14.4



ICAL Form

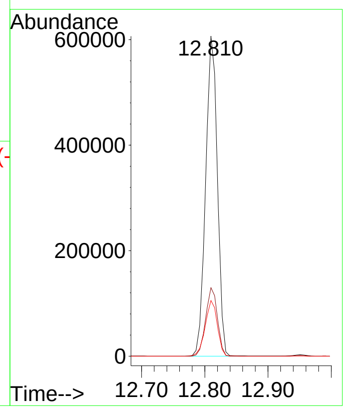
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

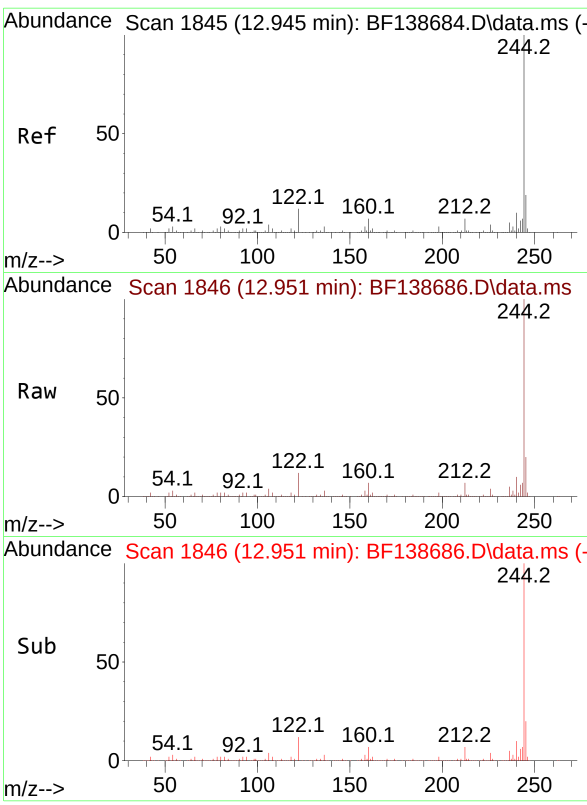


#78
Pyrene
Concen: 61.448 ng
RT: 12.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:202 Resp: 782403

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.8	25.2
203	17.4	13.8	20.6

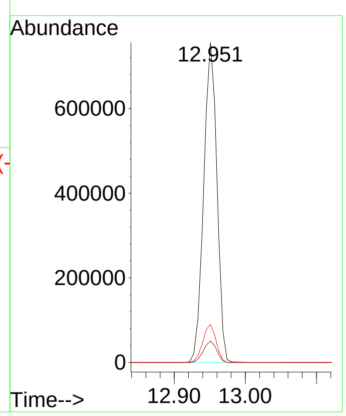




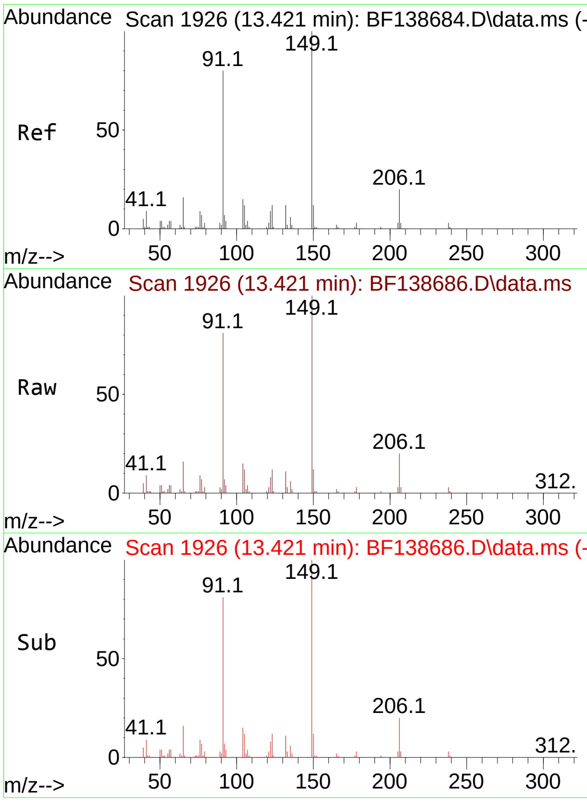
#79
Terphenyl-d14
Concen: 121.541 ng
RT: 12.951 min Scan# 1846
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:244 Resp: 981714

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.2
122	11.9	9.6	14.4



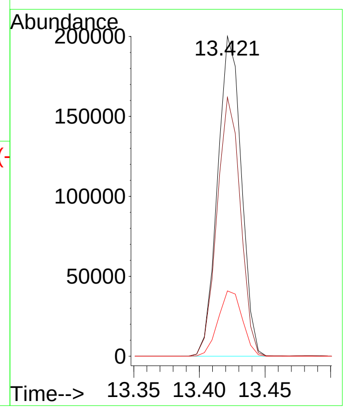
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

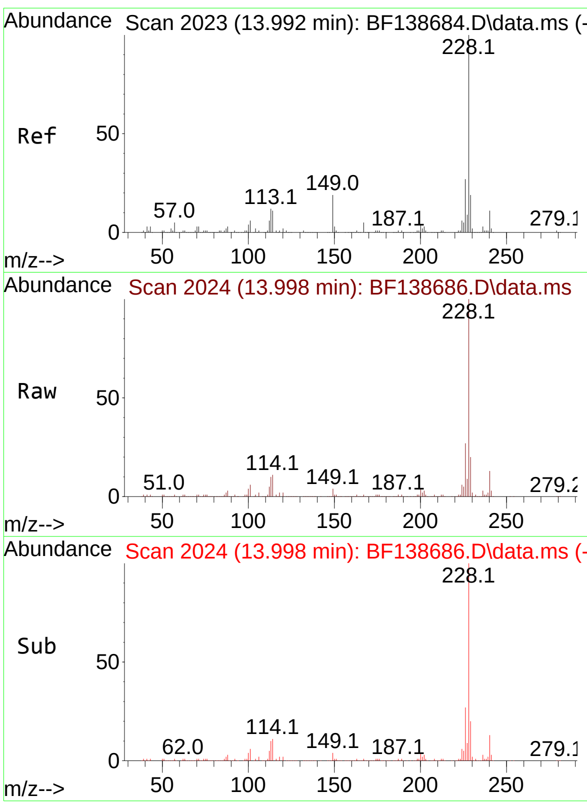


#80
Butylbenzylphthalate
Concen: 61.709 ng
RT: 13.421 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:149 Resp: 251612

Ion	Ratio	Lower	Upper
149	100		
91	80.9	63.7	95.5
206	20.4	16.2	24.2

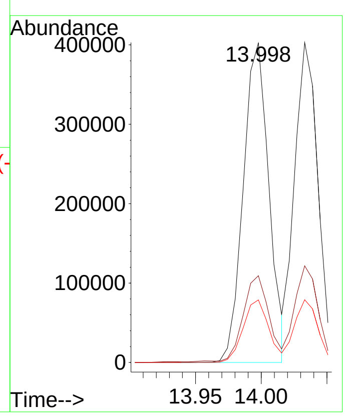




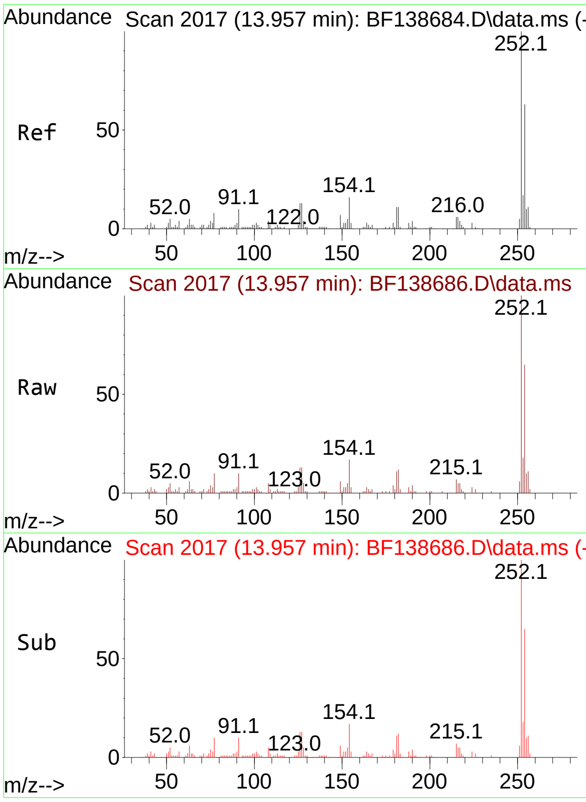
#81
Benzo(a)anthracene
Concen: 58.859 ng
RT: 13.998 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:228 Resp: 548125

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.1	33.1
229	19.6	15.4	23.0



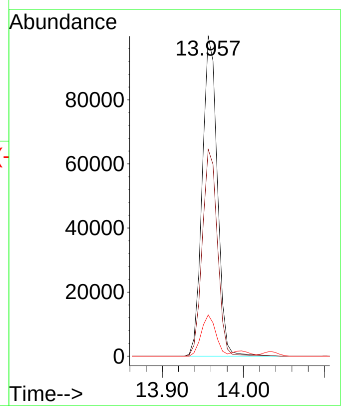
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

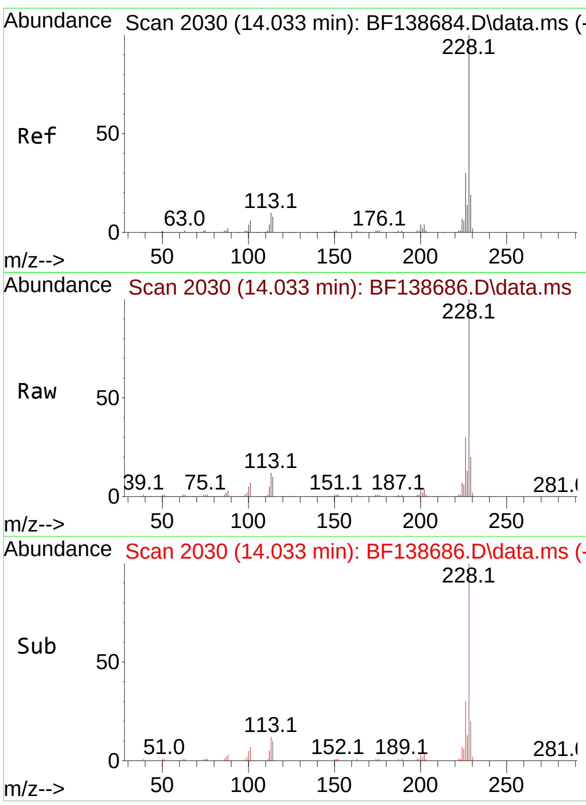


#82
3,3'-Dichlorobenzidine
Concen: 54.238 ng
RT: 13.957 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:252 Resp: 129254

Ion	Ratio	Lower	Upper
252	100		
254	64.6	50.8	76.2
126	12.9	10.2	15.2

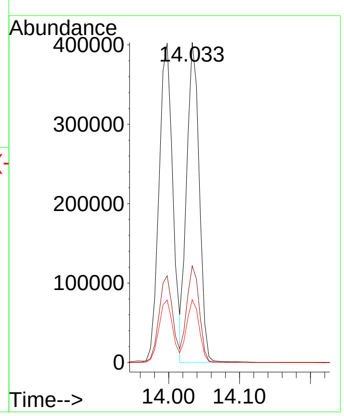




#83
Chrysene
Concen: 59.365 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

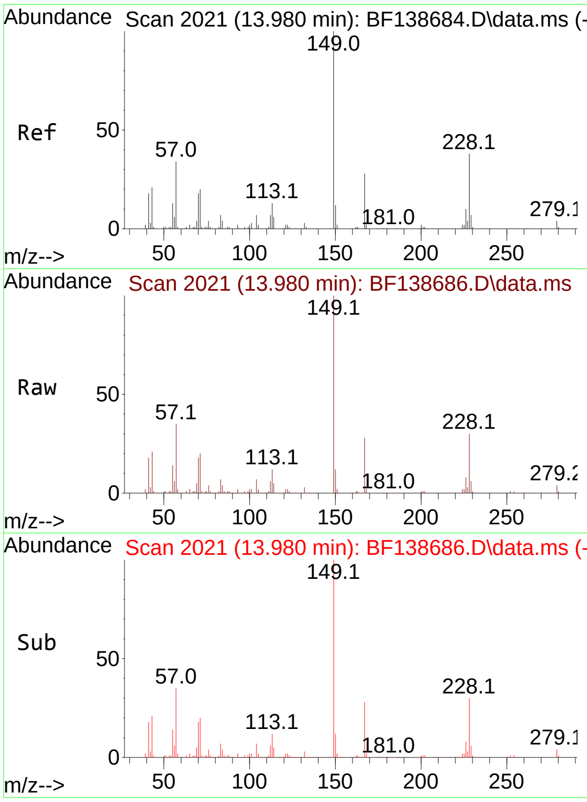
Tgt Ion:228 Resp: 498766

Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.7	35.5
229	19.6	15.0	22.6



ICAL Form

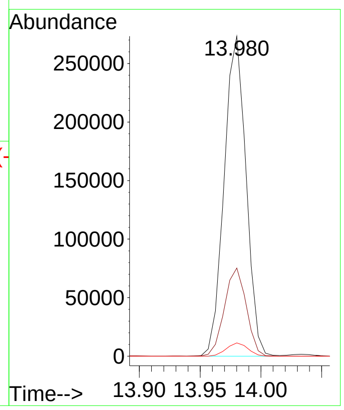
Instrument : BNA_F
ClientSampleId : SSTDICC060

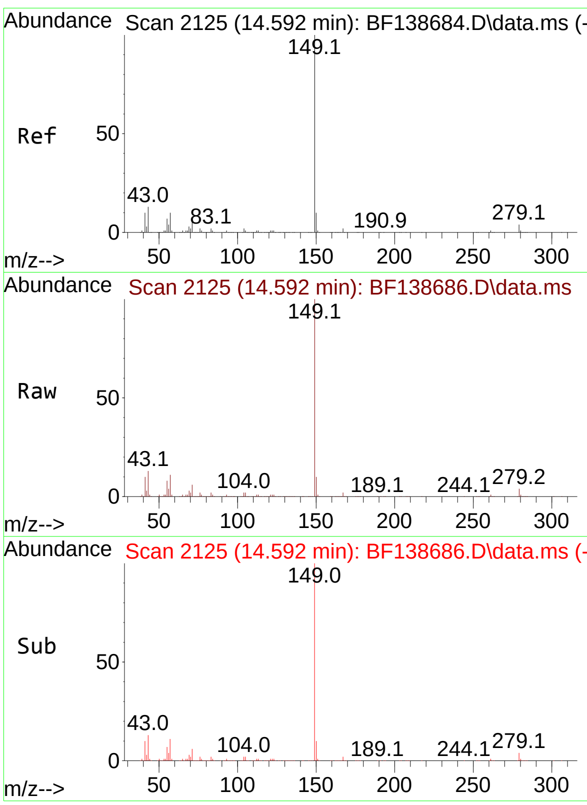


#84
Bis(2-ethylhexyl)phthalate
Concen: 57.526 ng
RT: 13.980 min Scan# 20
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:149 Resp: 343468

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	4.2	3.4	5.0

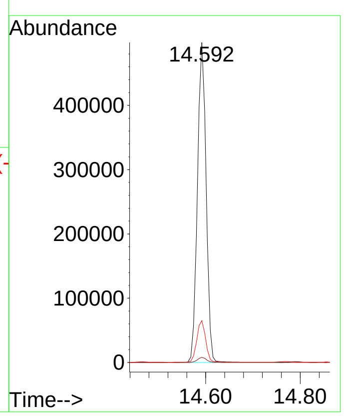




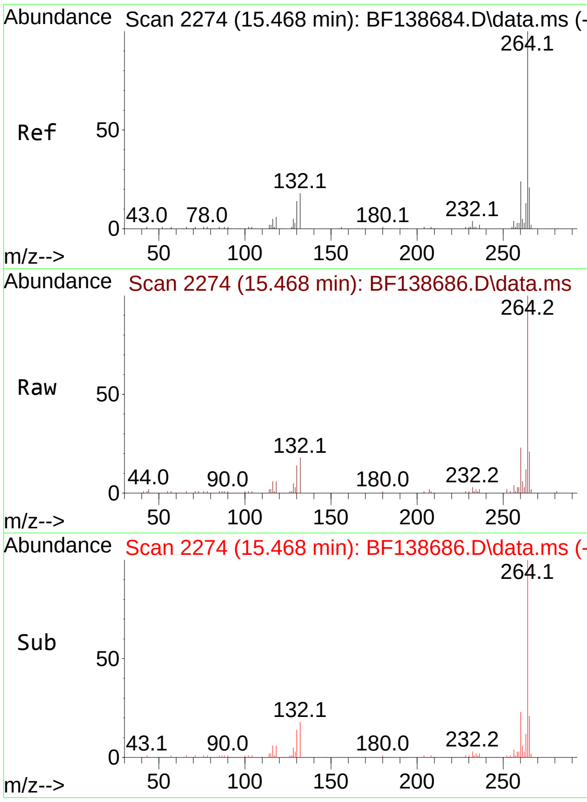
#85
Di-n-octyl phthalate
Concen: 57.670 ng
RT: 14.592 min Scan# 2125
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:149 Resp: 637055

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.4	2.0
43	13.1	10.4	15.6



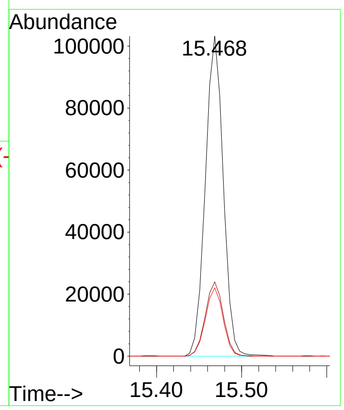
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

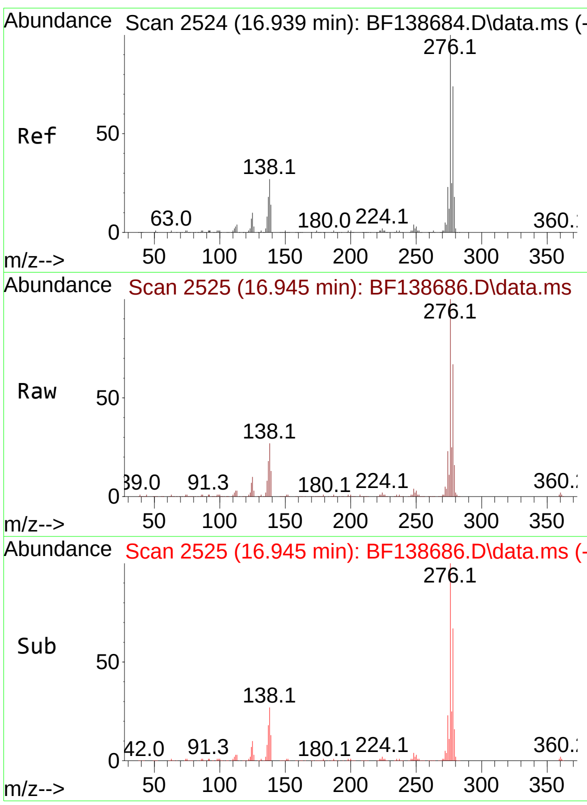


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:264 Resp: 151051

Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.0	28.6
265	21.3	17.0	25.6

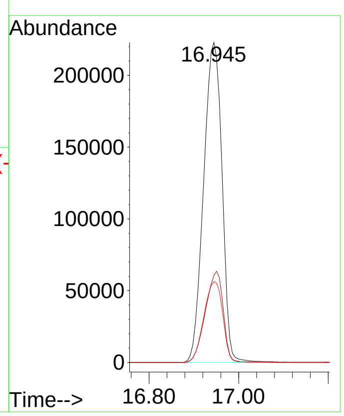




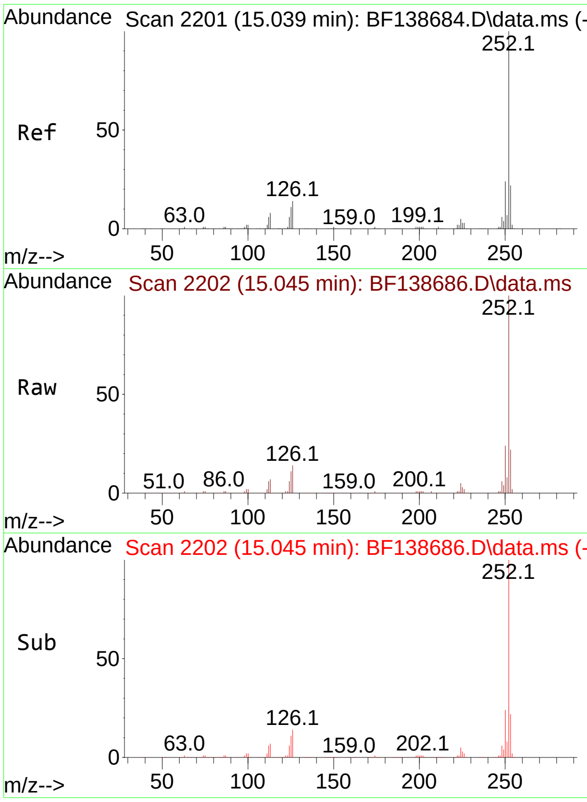
#87
Indeno(1,2,3-cd)pyrene
Concen: 58.833 ng
RT: 16.945 min Scan# 2525
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:276 Resp: 636857

Ion	Ratio	Lower	Upper
276	100		
138	27.6	21.8	32.8
277	25.8	20.6	30.8



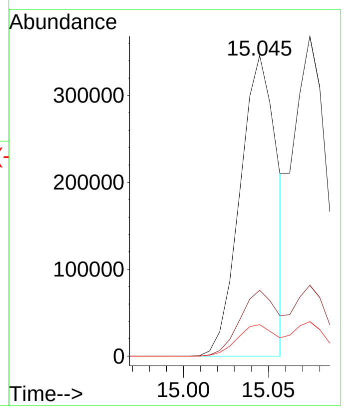
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

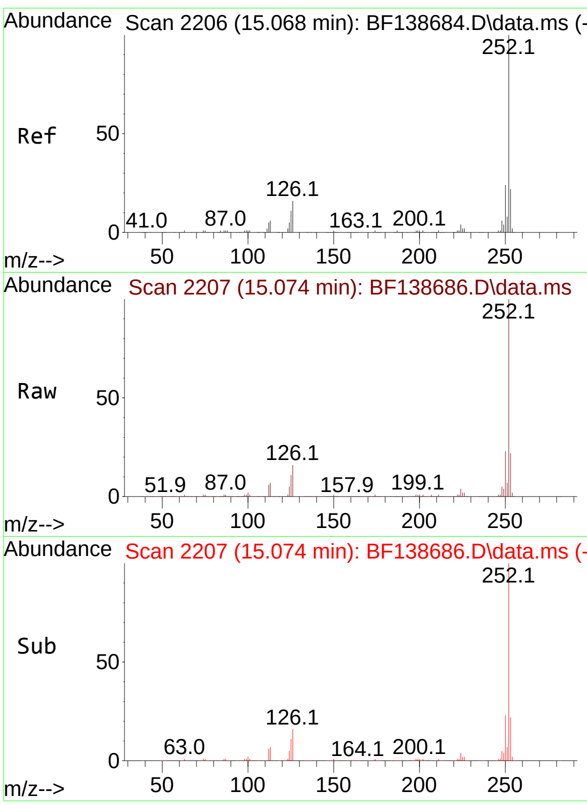


#88
Benzo(b)fluoranthene
Concen: 54.916 ng
RT: 15.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:252 Resp: 514218

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.5	8.9	13.3

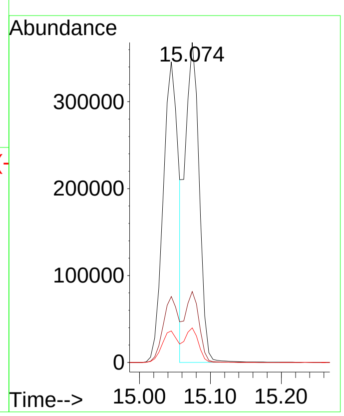




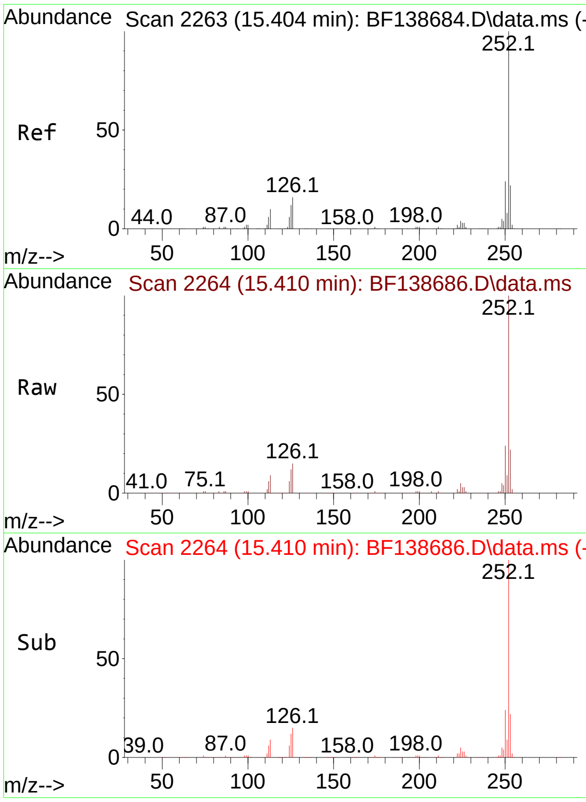
#89
Benzo(k)fluoranthene
Concen: 62.431 ng
RT: 15.074 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:252 Resp: 506146

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.0
125	10.8	8.6	13.0



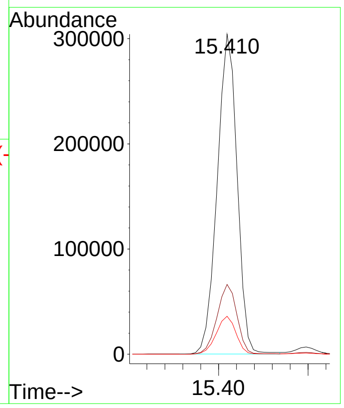
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

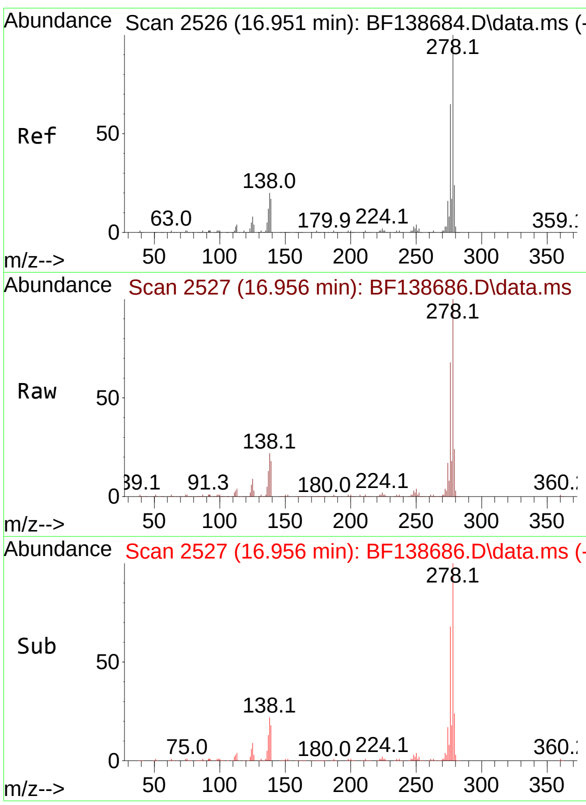


#90
Benzo(a)pyrene
Concen: 59.572 ng
RT: 15.410 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:252 Resp: 469205

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9
125	11.9	9.5	14.3

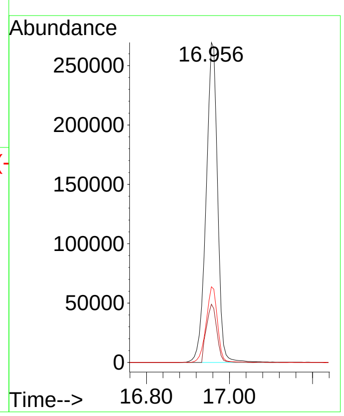


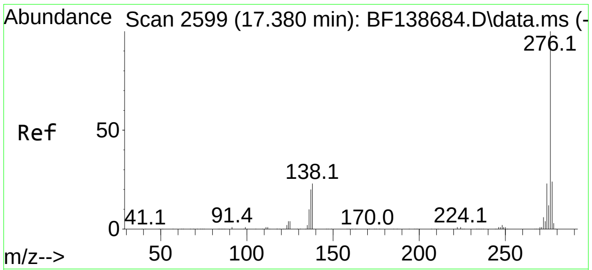


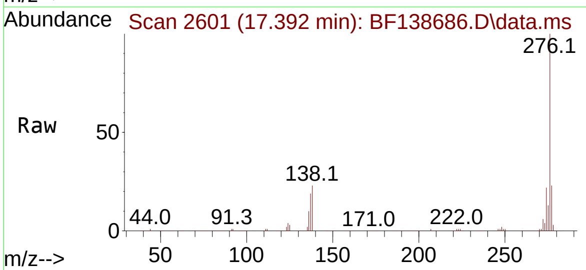
#91
Dibenzo(a,h)anthracene
Concen: 58.470 ng
RT: 16.956 min Scan# 2527
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

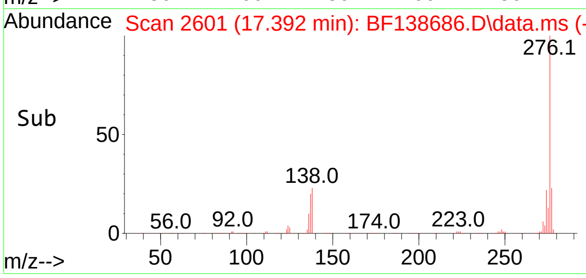
Tgt Ion:278 Resp: 519552

Ion	Ratio	Lower	Upper
278	100		
139	18.2	14.0	21.0
279	23.7	19.0	28.4







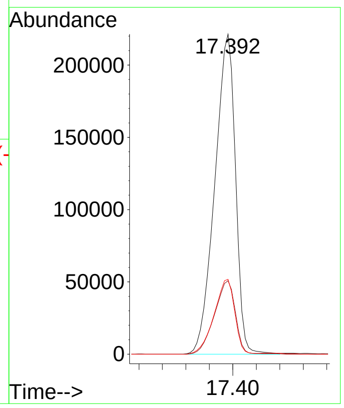


#92
Benzo(g,h,i)perylene
Concen: 58.883 ng
RT: 17.392 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 542952

Ion	Ratio	Lower	Upper
276	100		
277	23.0	19.0	28.4
138	23.4	18.5	27.7



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138687.D
Acq On : 30 Jul 2024 16:29
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jul 30 17:47:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.845	152	82334	20.000 ng	0.00
21) Naphthalene-d8	8.134	136	318281	20.000 ng	0.00
39) Acenaphthene-d10	9.886	164	170513	20.000 ng	0.00
64) Phenanthrene-d10	11.369	188	270140	20.000 ng	0.00
76) Chrysene-d12	14.010	240	127279	20.000 ng	0.00
86) Perylene-d12	15.468	264	150274	20.000 ng	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	5.475	112	779516	146.149 ng	0.00
7) Phenol-d6	6.498	99	1037275	144.849 ng	0.01
23) Nitrobenzene-d5	7.422	82	999276	153.499 ng	0.01
42) 2,4,6-Tribromophenol	10.681	330	215316	154.157 ng	0.01
45) 2-Fluorobiphenyl	9.210	172	1598378	140.843 ng	0.00
79) Terphenyl-d14	12.951	244	1102959	145.087 ng	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.599	88	179012	76.661 ng	99
3) Pyridine	3.357	79	430656	76.132 ng	98
4) n-Nitrosodimethylamine	3.334	42	264606	78.541 ng	100
6) Aniline	6.522	93	452908	70.918 ng	# 81
8) 2-Chlorophenol	6.640	128	412290	73.470 ng	99
10) Phenol	6.510	94	548122	72.698 ng	91
11) bis(2-Chloroethyl)ether	6.593	93	439507	75.750 ng	99
12) 1,3-Dichlorobenzene	6.793	146	457584	72.845 ng	100
13) 1,4-Dichlorobenzene	6.869	146	463447	73.107 ng	99
14) 1,2-Dichlorobenzene	7.022	146	422717	71.351 ng	100
15) Benzyl Alcohol	6.998	79	379102	73.451 ng	99
16) 2,2'-oxybis(1-Chloropr...	7.128	45	704056	70.510 ng	91
17) 2-Methylphenol	7.110	107	344171	74.274 ng	97
18) Hexachloroethane	7.357	117	177915	74.559 ng	96
19) n-Nitroso-di-n-propyla...	7.275	70	319414	73.850 ng	96
20) 3+4-Methylphenols	7.269	107	420506	70.728 ng	# 90
22) Acetophenone	7.269	105	583306	74.849 ng	98
24) Nitrobenzene	7.440	77	510201	77.019 ng	98
25) Isophorone	7.681	82	862380	77.580 ng	99
26) 2-Nitrophenol	7.751	139	227531	79.835 ng	99
27) 2,4-Dimethylphenol	7.792	122	263469	77.265 ng	99
28) bis(2-Chloroethoxy)met...	7.881	93	522528	77.190 ng	99
29) 2,4-Dichlorophenol	7.998	162	336540	76.805 ng	100
30) 1,2,4-Trichlorobenzene	8.075	180	381296	75.405 ng	99
31) Naphthalene	8.157	128	1242069	74.139 ng	100
32) Benzoic acid	7.957	122	247058	92.209 ng	97
33) 4-Chloroaniline	8.216	127	443424	78.849 ng	99
34) Hexachlorobutadiene	8.263	225	230783	75.351 ng	100
35) Caprolactam	8.604	113	107916	82.539 ng	97
36) 4-Chloro-3-methylphenol	8.692	107	386382	77.158 ng	99
37) 2-Methylnaphthalene	8.839	142	782843	73.988 ng	100
38) 1-Methylnaphthalene	8.945	142	760272	73.328 ng	99
40) 1,2,4,5-Tetrachloroben...	9.010	216	351438	74.196 ng	99
41) Hexachlorocyclopentadiene	8.992	237	99926	79.729 ng	98
43) 2,4,6-Trichlorophenol	9.122	196	227901	78.913 ng	100
44) 2,4,5-Trichlorophenol	9.169	196	245697	77.822 ng	98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138687.D
Acq On : 30 Jul 2024 16:29
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jul 30 17:47:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
46) 1,1'-Biphenyl	9.310	154	983564	73.651 ng		100
47) 2-Chloronaphthalene	9.334	162	742852	74.793 ng		100
48) 2-Nitroaniline	9.434	65	266220	79.066 ng		98
49) Acenaphthylene	9.751	152	1013441	71.944 ng		99
50) Dimethylphthalate	9.616	163	843645	77.379 ng		99
51) 2,6-Dinitrotoluene	9.681	165	189138	76.868 ng		97
52) Acenaphthene	9.922	154	693130	73.198 ng		100
53) 3-Nitroaniline	9.851	138	194796	76.581 ng		100
54) 2,4-Dinitrophenol	9.957	184	100793	88.986 ng		94
55) Dibenzofuran	10.092	168	963359	72.071 ng		100
56) 4-Nitrophenol	10.016	139	127589	83.411 ng		98
57) 2,4-Dinitrotoluene	10.086	165	237463	75.642 ng	#	88
58) Fluorene	10.433	166	768404	72.188 ng		99
59) 2,3,4,6-Tetrachlorophenol	10.216	232	192425	79.721 ng		97
60) Diethylphthalate	10.310	149	788464	76.270 ng		99
61) 4-Chlorophenyl-phenyle...	10.428	204	376130	71.847 ng		99
62) 4-Nitroaniline	10.469	138	181845	75.227 ng		98
63) Azobenzene	10.586	77	857699	74.806 ng		99
65) 4,6-Dinitro-2-methylph...	10.492	198	137397	83.368 ng		97
66) n-Nitrosodiphenylamine	10.551	169	641930	76.022 ng		99
67) 4-Bromophenyl-phenylether	10.916	248	226137	77.318 ng		99
68) Hexachlorobenzene	10.980	284	233005	77.158 ng		99
69) Atrazine	11.075	200	152765	70.122 ng		99
70) Pentachlorophenol	11.180	266	120403	88.455 ng		98
71) Phenanthrene	11.398	178	1020185	73.341 ng		99
72) Anthracene	11.451	178	1005219	73.356 ng		100
73) Carbazole	11.604	167	836447	70.750 ng		99
74) Di-n-butylphthalate	11.927	149	1016790	76.505 ng		100
75) Fluoranthene	12.586	202	893988	68.843 ng		99
78) Pyrene	12.816	202	882216	73.618 ng		99
80) Butylbenzylphthalate	13.427	149	304470	79.340 ng		99
81) Benzo(a)anthracene	13.998	228	659091	75.198 ng		99
82) 3,3'-Dichlorobenzidine	13.963	252	159678	71.192 ng		99
83) Chrysene	14.039	228	617804	78.129 ng		98
84) Bis(2-ethylhexyl)phtha...	13.980	149	440693	78.423 ng		100
85) Di-n-octyl phthalate	14.592	149	817161	78.597 ng		99
87) Indeno(1,2,3-cd)pyrene	16.951	276	827423	76.833 ng		99
88) Benzo(b)fluoranthene	15.045	252	721224	77.422 ng		99
89) Benzo(k)fluoranthene	15.080	252	596517	73.959 ng		99
90) Benzo(a)pyrene	15.416	252	609452	77.779 ng		99
91) Dibenzo(a,h)anthracene	16.968	278	664634	75.184 ng		100
92) Benzo(g,h,i)perylene	17.398	276	702583	76.589 ng		99

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

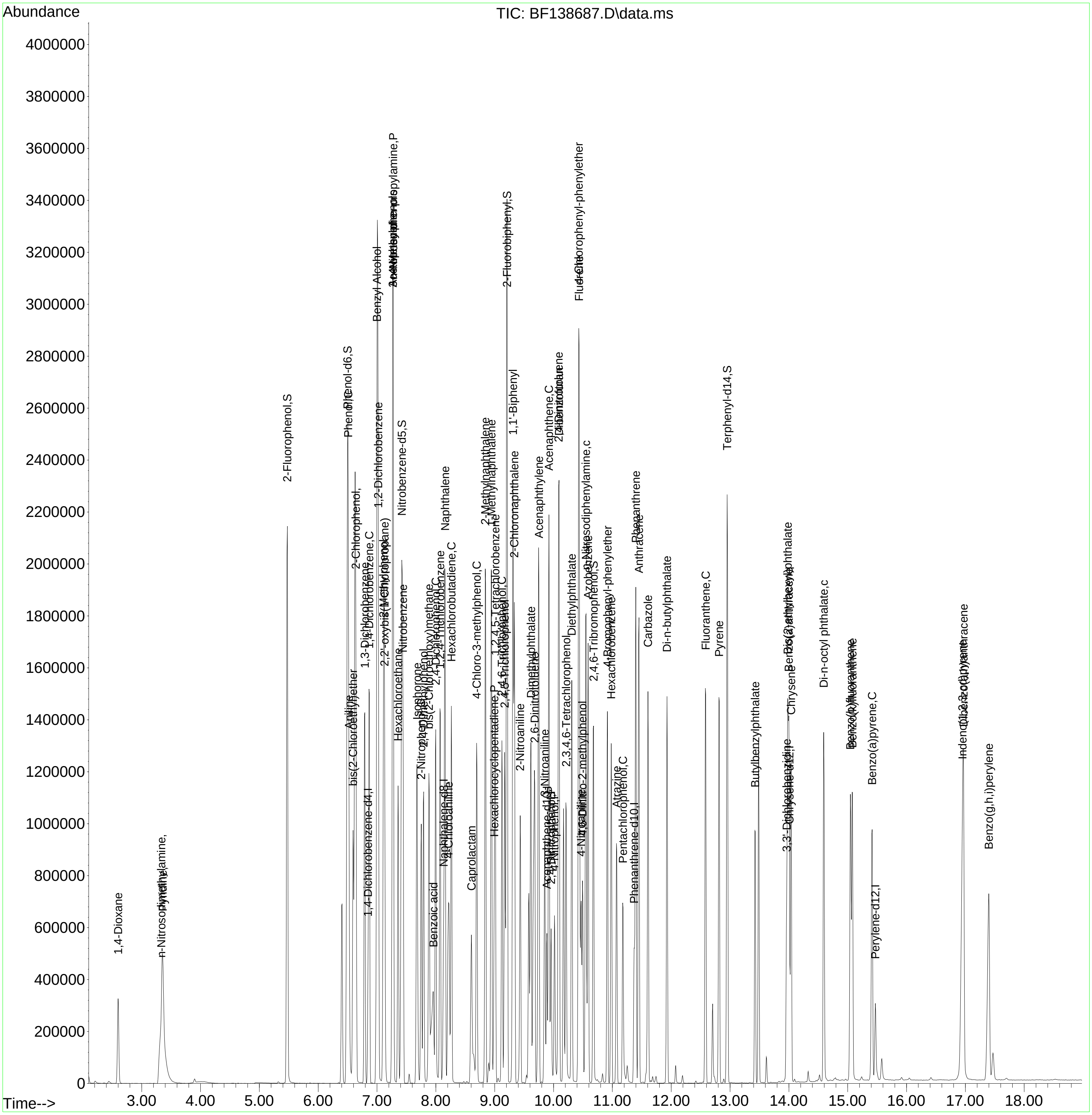
Quantitation Report (QT Reviewed)

ICAL Form

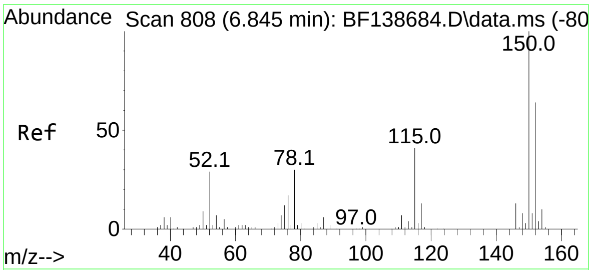
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138687.D
Acq On : 30 Jul 2024 16:29
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

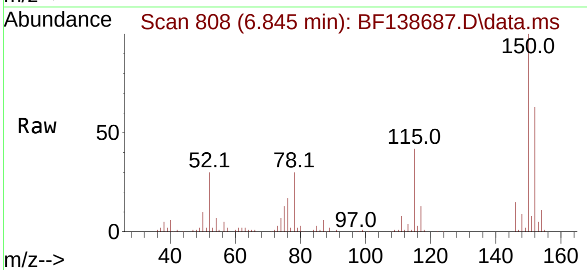
Instrument :	BNA_F
ClientSampleId :	SSTDICC080

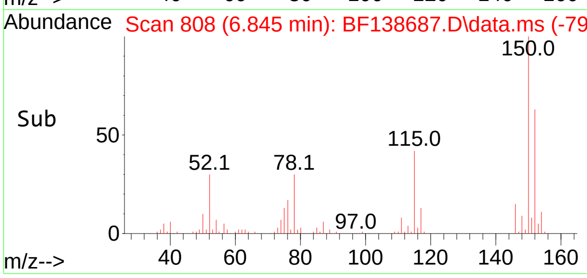
Quant Time: Jul 30 17:47:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



Instrument :
BNA_F
ClientSampleId :
SSTDICC080



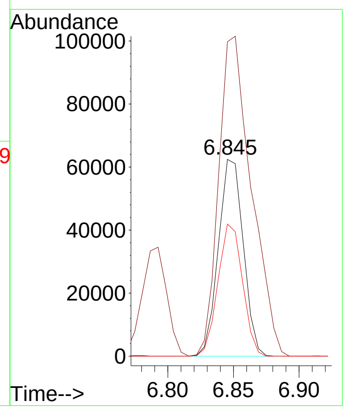


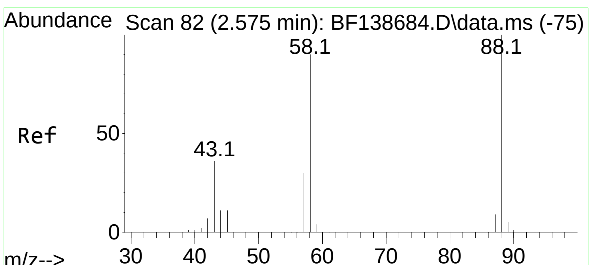


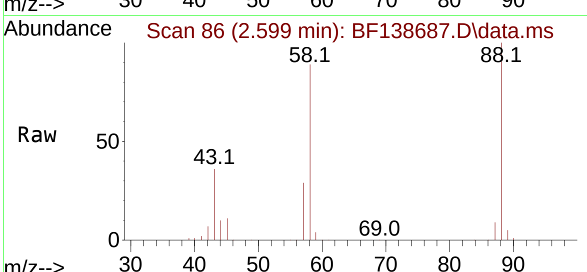
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 808
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

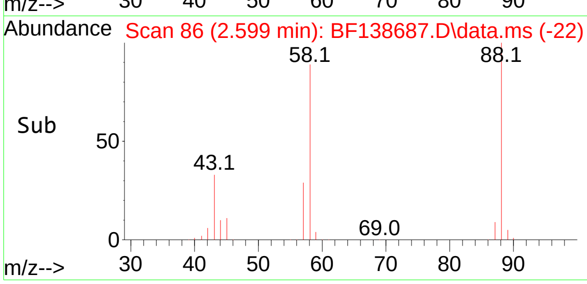
Tgt Ion:152 Resp: 82334

Ion	Ratio	Lower	Upper
152	100		
150	159.8	126.0	189.0
115	67.1	51.7	77.5





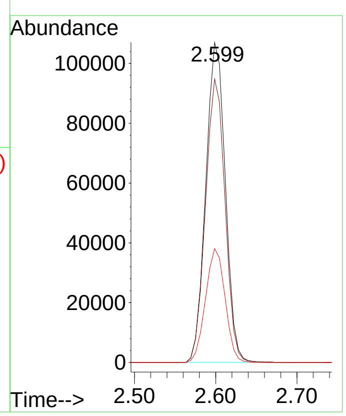




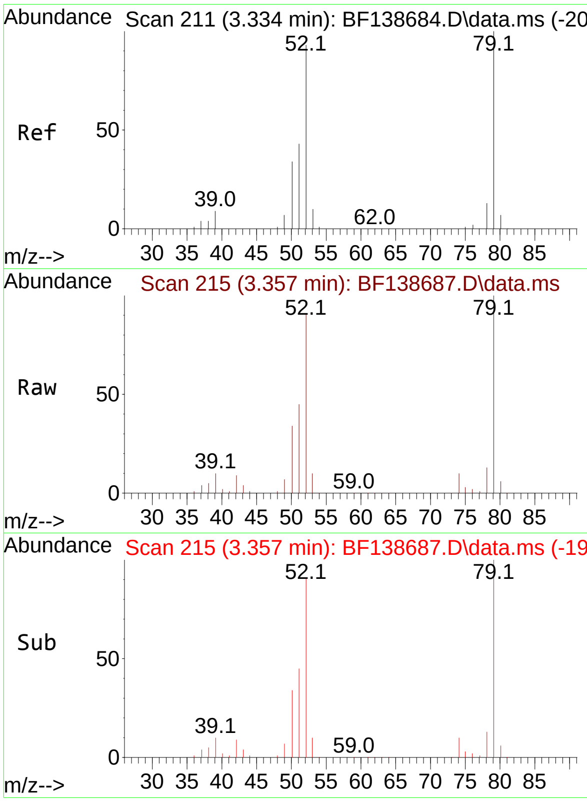
#2
1,4-Dioxane
Concen: 76.661 ng
RT: 2.599 min Scan# 86
Delta R.T. 0.024 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 88 Resp: 179012

Ion	Ratio	Lower	Upper
88	100		
58	88.5	71.6	107.4
43	35.7	28.7	43.1



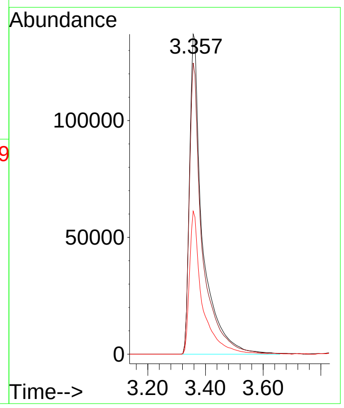
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

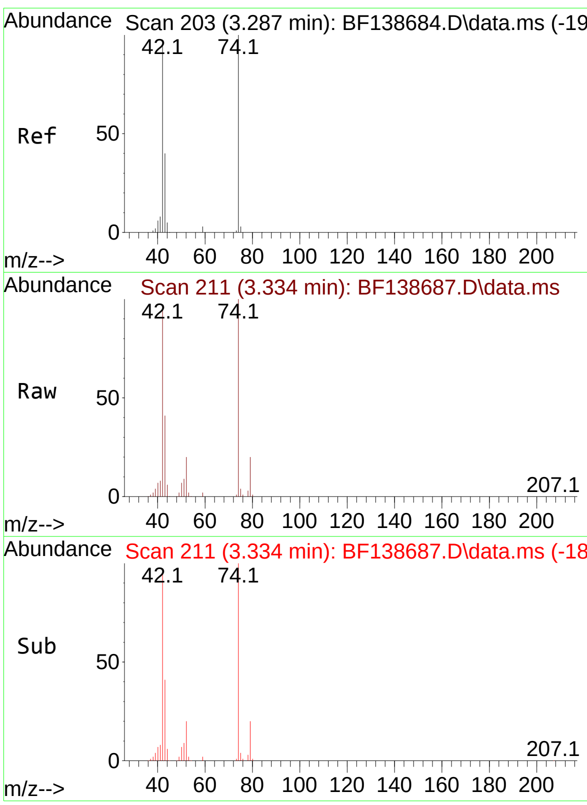


#3
Pyridine
Concen: 76.132 ng
RT: 3.357 min Scan# 215
Delta R.T. 0.024 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 79 Resp: 430656

Ion	Ratio	Lower	Upper
79	100		
52	91.0	74.7	112.1
51	44.7	34.6	51.8

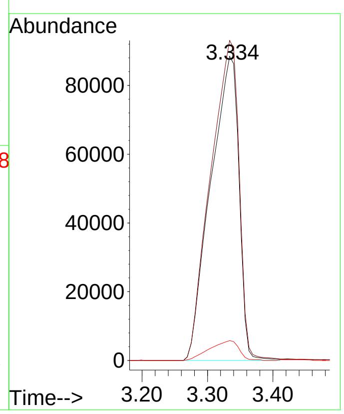




#4
n-Nitrosodimethylamine
Concen: 78.541 ng
RT: 3.334 min Scan# 211
Delta R.T. 0.047 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

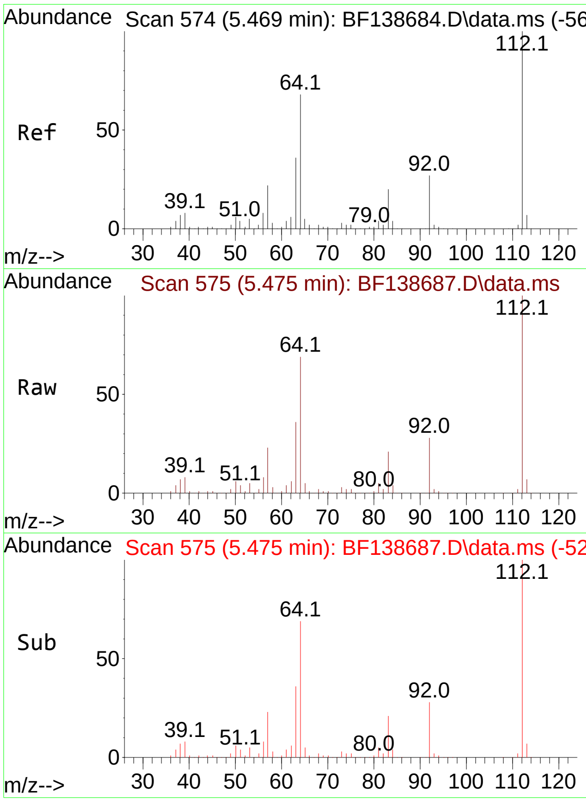
Tgt Ion: 42 Resp: 264606

Ion	Ratio	Lower	Upper
42	100		
74	105.2	84.2	126.4
44	6.5	4.9	7.3



ICAL Form

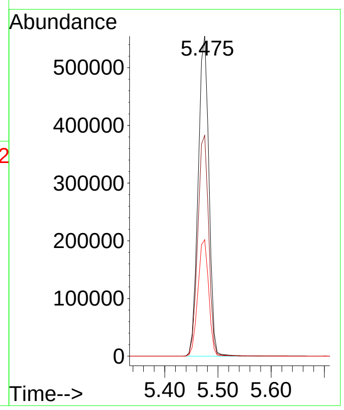
Instrument : BNA_F
ClientSampleId : SSTDICC080

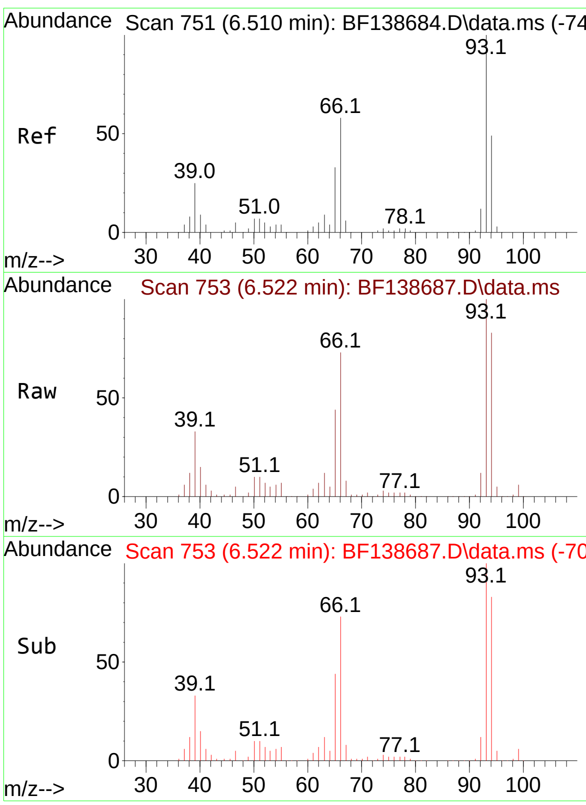


#5
2-Fluorophenol
Concen: 146.149 ng
RT: 5.475 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:112 Resp: 779516

Ion	Ratio	Lower	Upper
112	100		
64	69.0	54.2	81.4
63	36.4	28.7	43.1

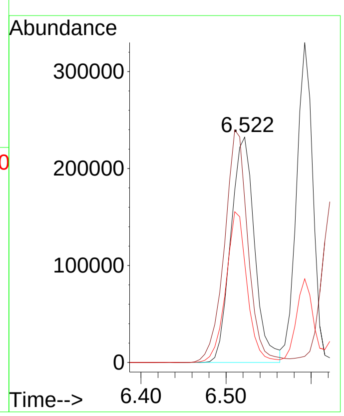




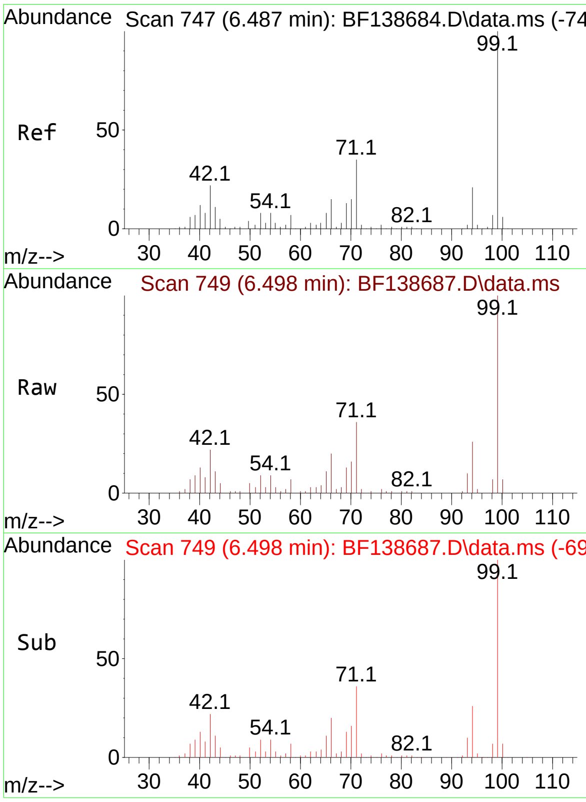
#6
Aniline
Concen: 70.918 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 93 Resp: 452908

Ion	Ratio	Lower	Upper
93	100		
66	72.6	46.9	70.3#
65	44.4	26.5	39.7#



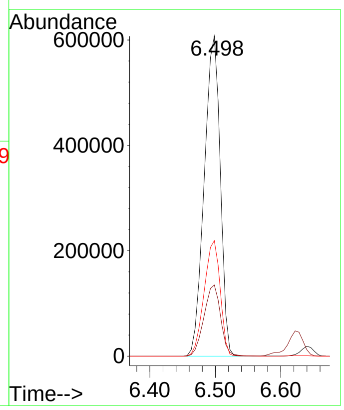
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

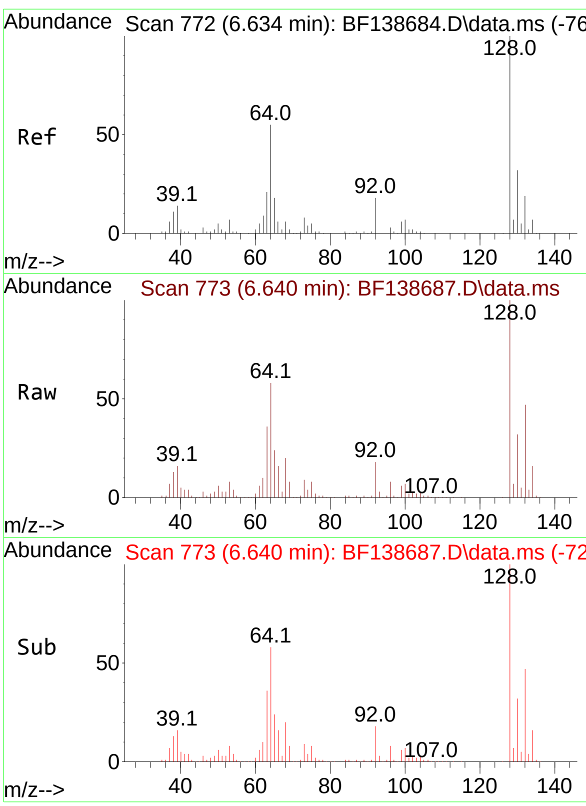


#7
Phenol-d6
Concen: 144.849 ng
RT: 6.498 min Scan# 74
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 99 Resp: 1037275

Ion	Ratio	Lower	Upper
99	100		
42	22.3	17.4	26.0
71	36.1	28.1	42.1

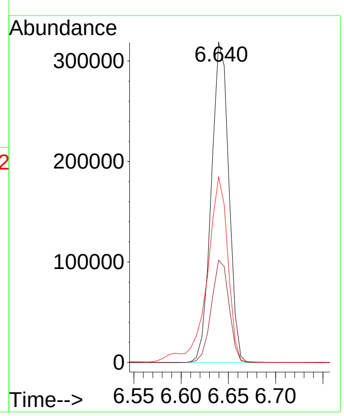




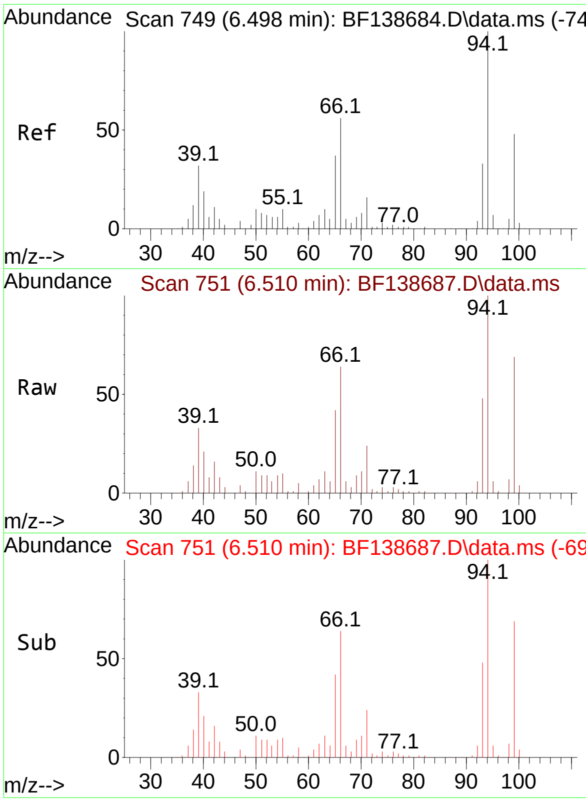
#8
2-Chlorophenol
Concen: 73.470 ng
RT: 6.640 min Scan# 773
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:128 Resp: 412290

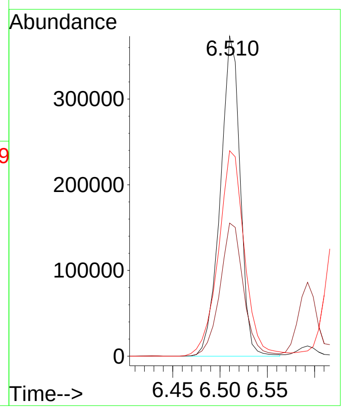
Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.0	52.0
64	57.9	36.3	76.3

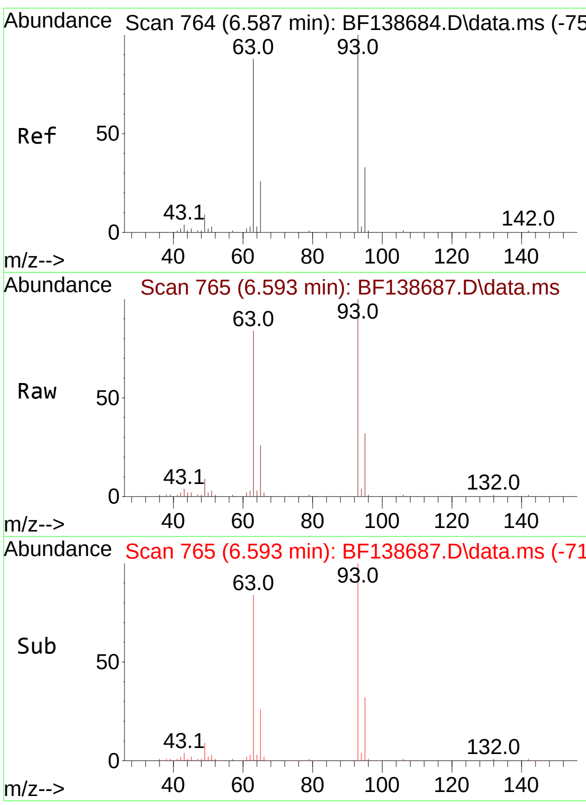


Instrument :
BNA_F
ClientSampleId :
SSTDICC080

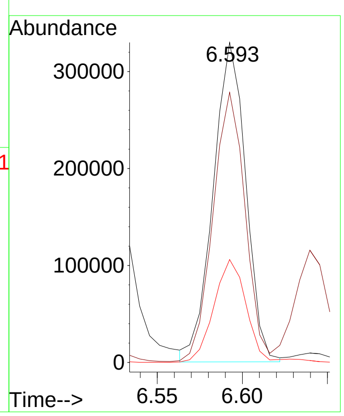



```
#10
Phenol
Concen:   72.698 ng
RT:   6.510 min  Scan# 7
Delta R.T.  0.012 min
Lab File:   BF138687.D
Acq: 30 Jul 2024  16:29

Tgt Ion: 94 Resp:  548122
Ion  Ratio  Lower  Upper
 94  100
 65   41.6   16.9   56.9
 66   64.2   36.5   76.5
```



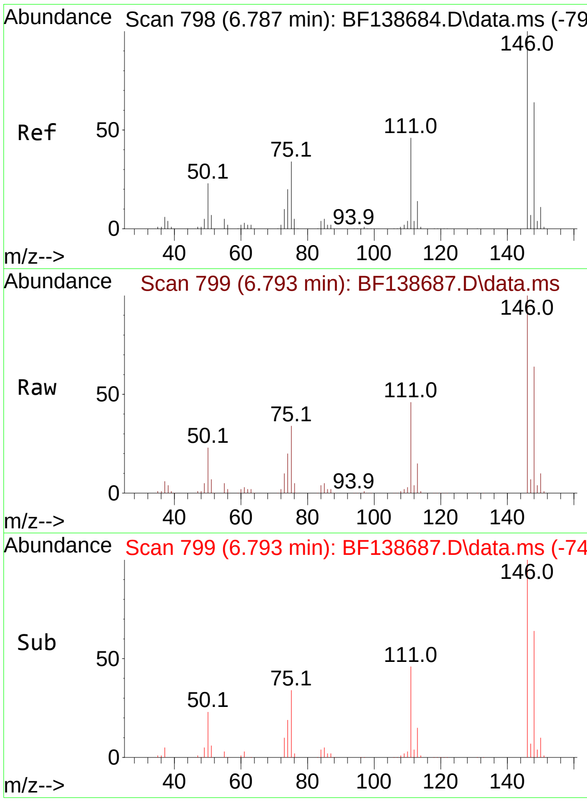



```
#11
bis(2-Chloroethyl)ether
Concen:   75.750 ng
RT:   6.593 min  Scan# 765
Delta R.T.  0.006 min
Lab File:   BF138687.D
Acq: 30 Jul 2024  16:29

Tgt Ion: 93 Resp:  439507
Ion  Ratio  Lower  Upper
 93  100
 63   84.4   65.3  105.3
 95   32.1   12.4   52.4
```

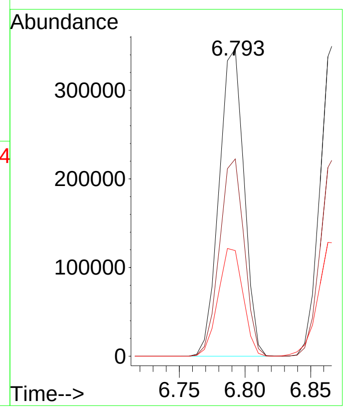


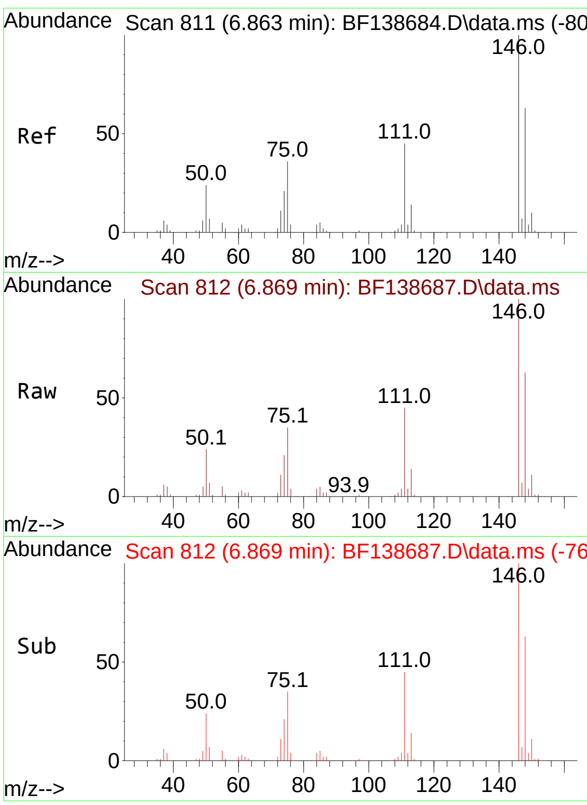
ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

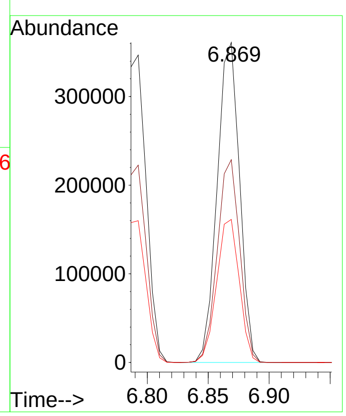



```
#12
1,3-Dichlorobenzene
Concen:    72.845 ng
RT:    6.793 min   Scan# 7
Delta R.T.   0.006 min
Lab File:    BF138687.D
Acq: 30 Jul 2024   16:29

Tgt Ion:146 Resp:   457584
Ion   Ratio   Lower   Upper
146   100
148     64.2    51.2    76.8
 75     34.4    27.4    41.2
```

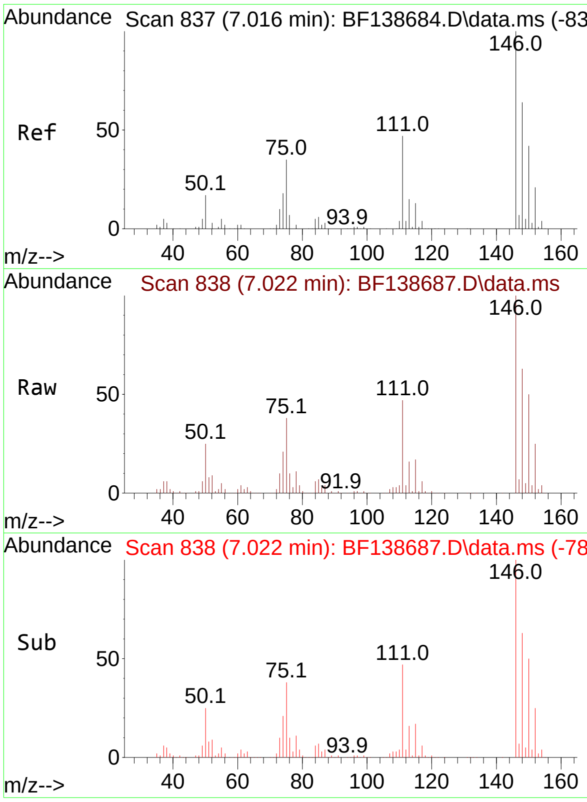





```
#13
1,4-Dichlorobenzene
Concen:    73.107 ng
RT:    6.869 min   Scan# 812
Delta R.T.   0.006 min
Lab File:    BF138687.D
Acq: 30 Jul 2024   16:29

Tgt Ion:146 Resp:   463447
Ion   Ratio   Lower   Upper
146   100
148     63.4    50.2    75.2
111     44.7    35.9    53.9
```



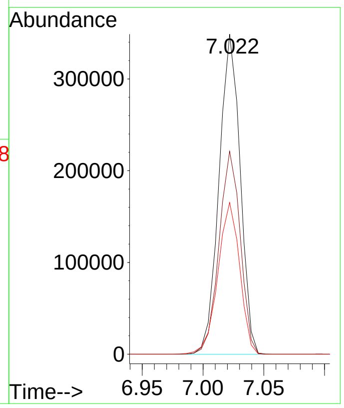
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

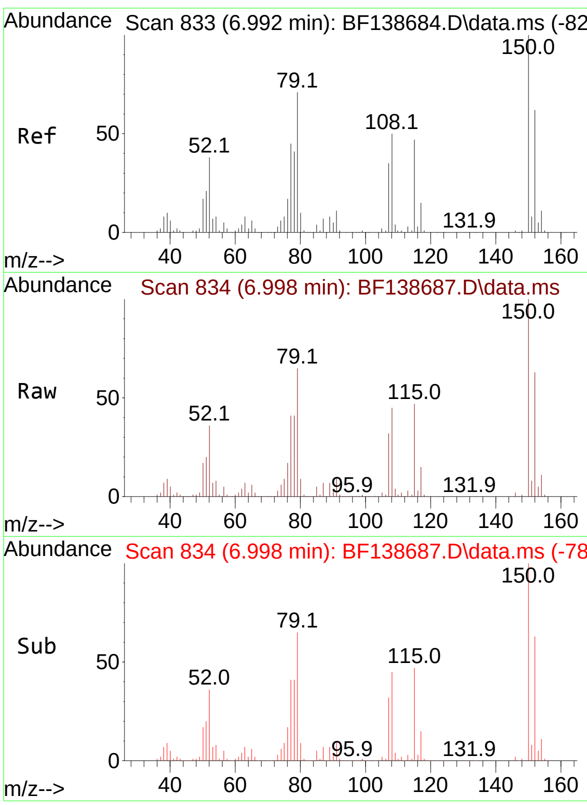


#14
1,2-Dichlorobenzene
Concen: 71.351 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:146 Resp: 422717

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.8	76.2
111	47.4	37.4	56.2

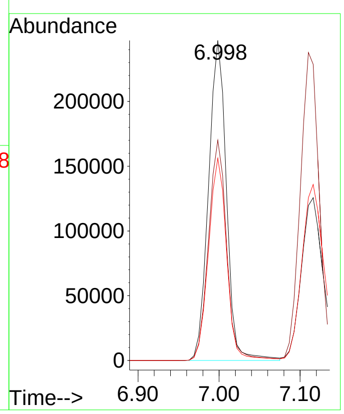




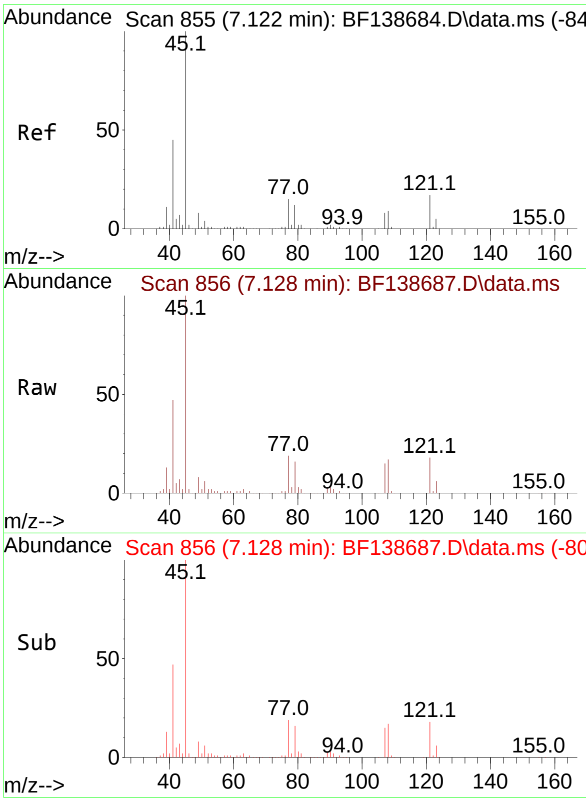
#15
Benzyl Alcohol
Concen: 73.451 ng
RT: 6.998 min Scan# 834
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 79 Resp: 379102

Ion	Ratio	Lower	Upper
79	100		
108	68.9	56.6	85.0
77	63.2	50.3	75.5



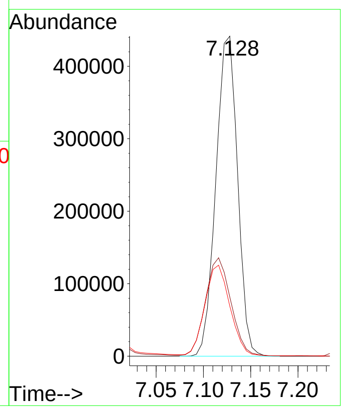
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

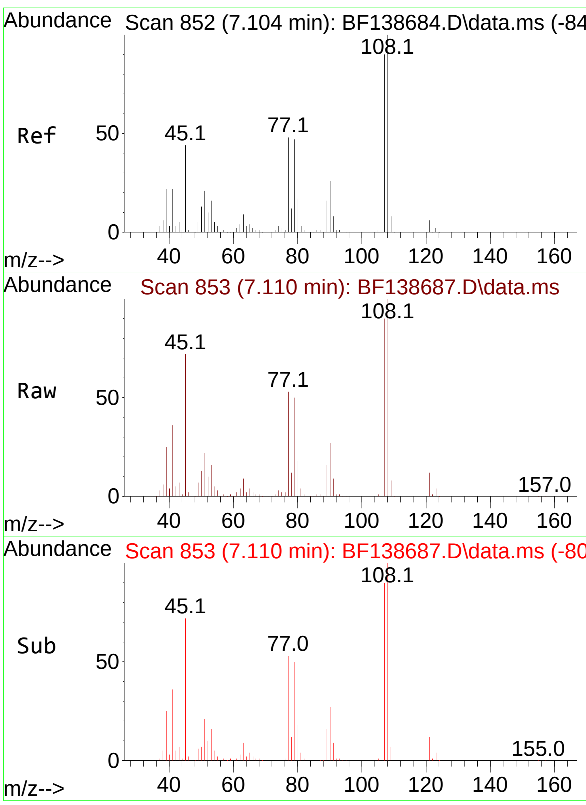


#16
2,2'-oxybis(1-Chloropropane)
Concen: 70.510 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 45 Resp: 704056

Ion	Ratio	Lower	Upper
45	100		
77	18.5	0.0	34.9
79	15.7	0.0	32.2

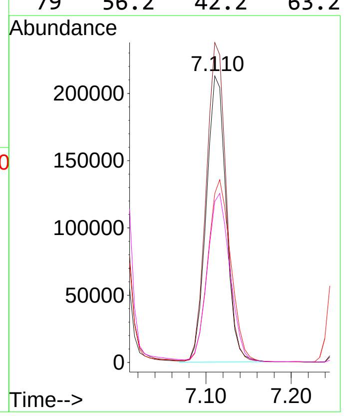




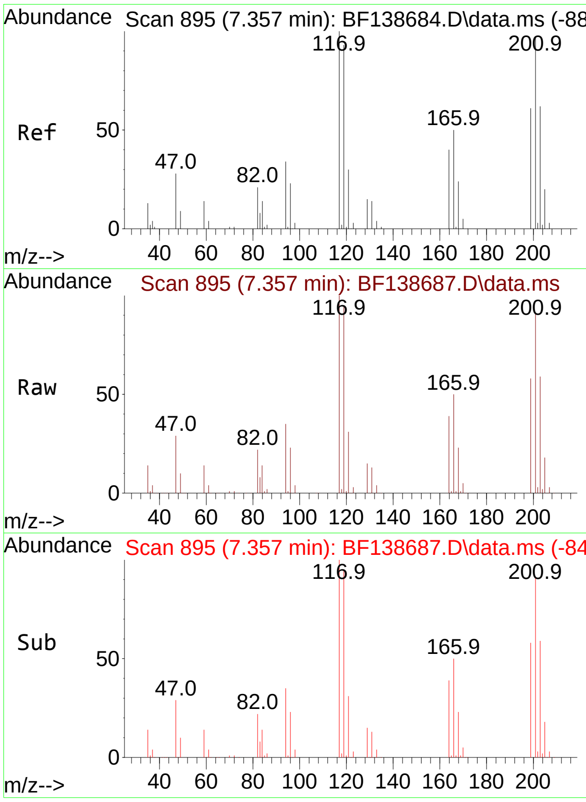
#17
2-Methylphenol
Concen: 74.274 ng
RT: 7.110 min Scan# 853
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:107 Resp: 344171

Ion	Ratio	Lower	Upper
107	100		
108	111.7	89.2	133.8
77	59.0	43.0	64.4
79	56.2	42.2	63.2

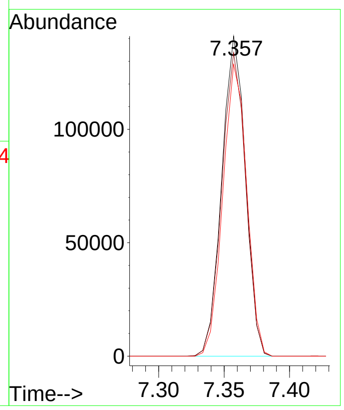


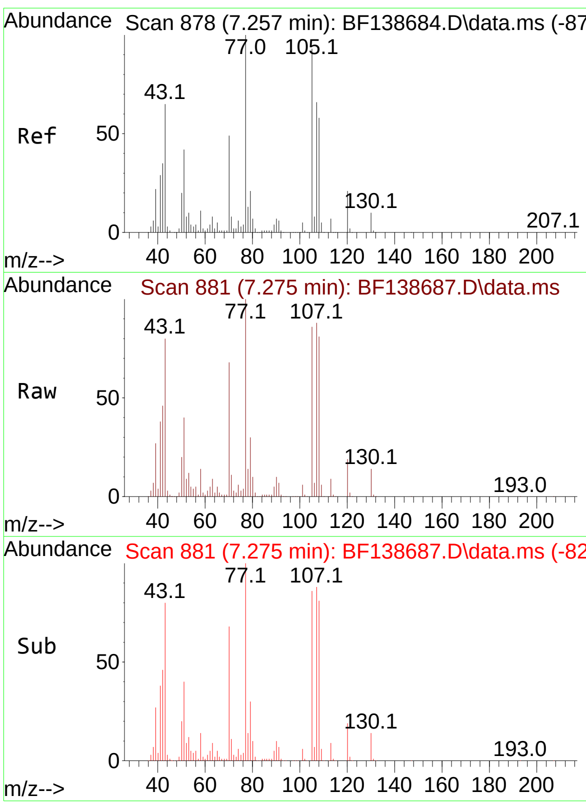
Instrument :
BNA_F
ClientSampleId :
SSTDICC080



#18
Hexachloroethane
Concen: 74.559 ng
RT: 7.357 min Scan# 89
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

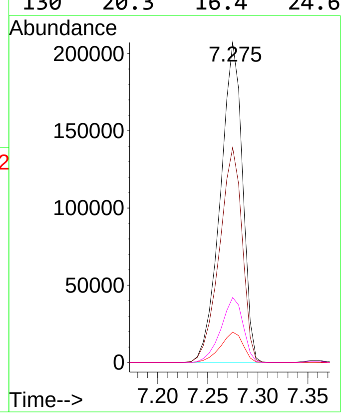
Tgt Ion:117	Resp:	177915	
Ion	Ratio	Lower	Upper
117	100		
119	94.8	74.6	111.8
201	91.2	77.2	115.8





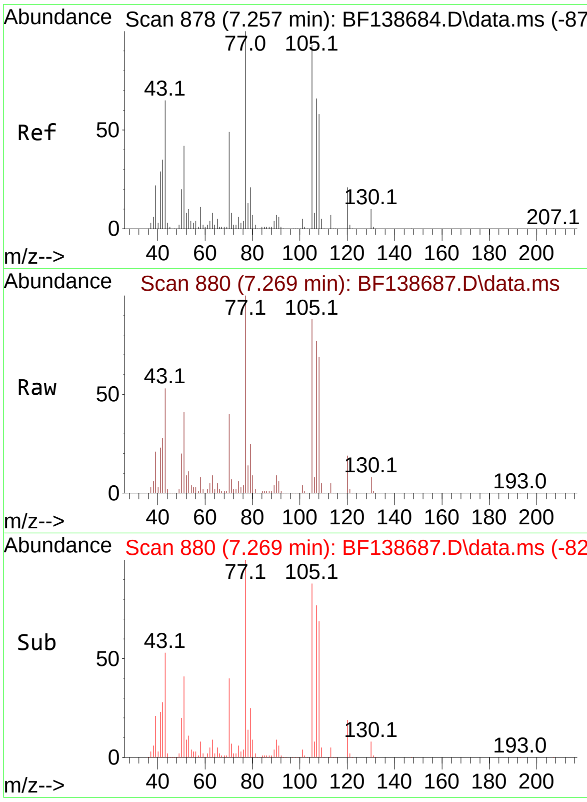
#19
n-Nitroso-di-n-propylamine
Concen: 73.850 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.018 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 70	Resp:	319414	
Ion	Ratio	Lower	Upper
70	100		
42	67.1	57.4	86.0
101	9.5	7.5	11.3
130	20.3	16.4	24.6



ICAL Form

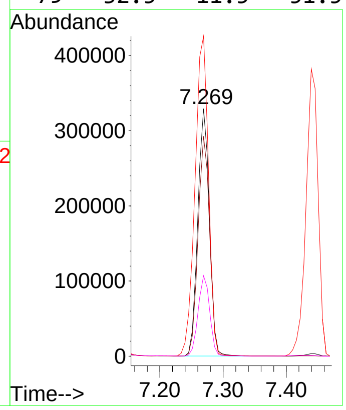
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

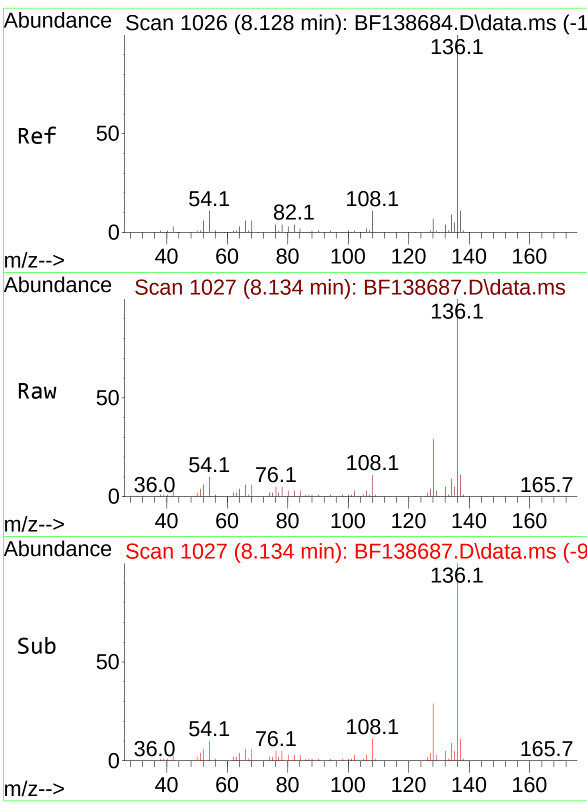


#20
3+4-Methylphenols
Concen: 70.728 ng
RT: 7.269 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:107 Resp: 420506

Ion	Ratio	Lower	Upper
107	100		
108	88.9	68.2	108.2
77	129.4	132.1	172.1#
79	32.5	11.5	51.5

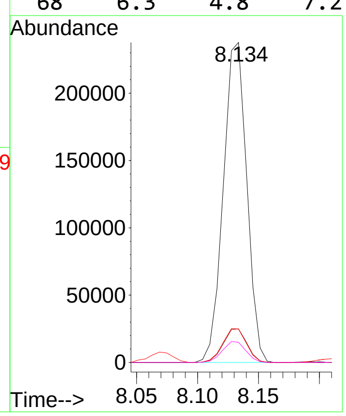




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.134 min Scan# 1027
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

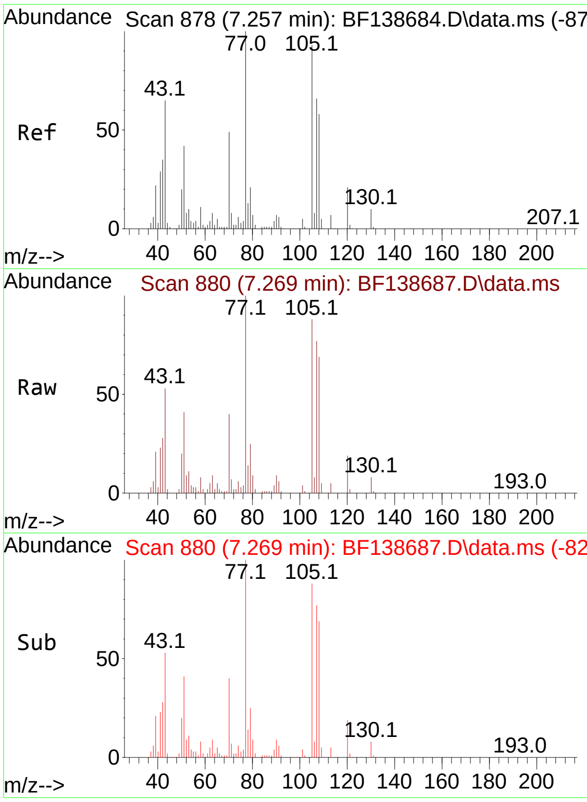
Tgt Ion:136 Resp: 318281

Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.9	13.3
54	10.4	8.6	12.8
68	6.3	4.8	7.2



ICAL Form

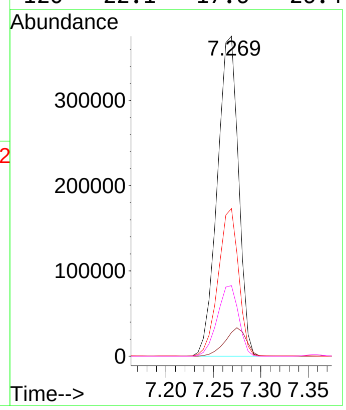
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

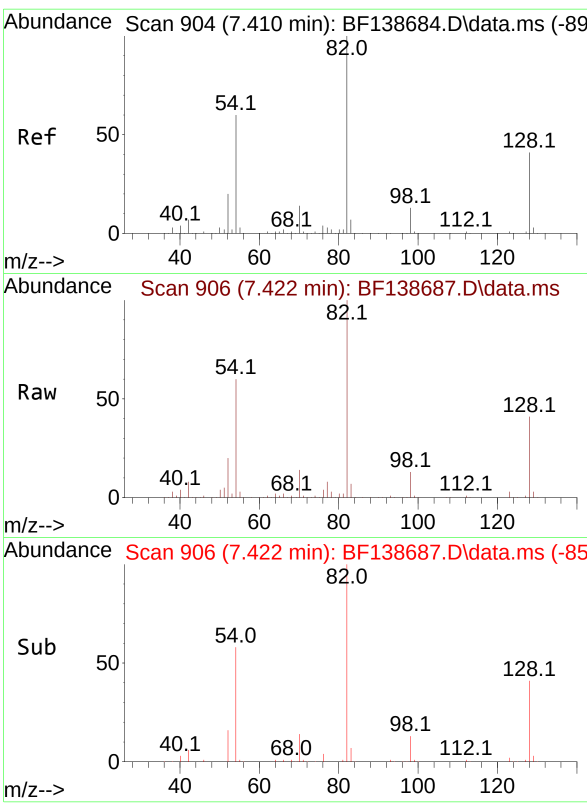


#22
Acetophenone
Concen: 74.849 ng
RT: 7.269 min Scan# 88
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:105 Resp: 583306

Ion	Ratio	Lower	Upper
105	100		
71	7.4	7.2	10.8
51	46.1	35.9	53.9
120	22.1	17.6	26.4

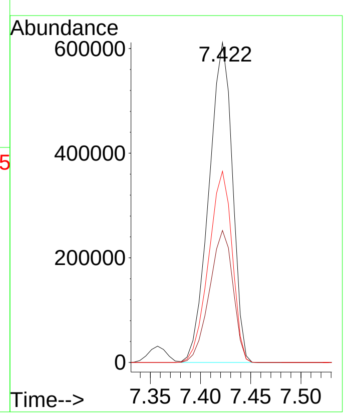




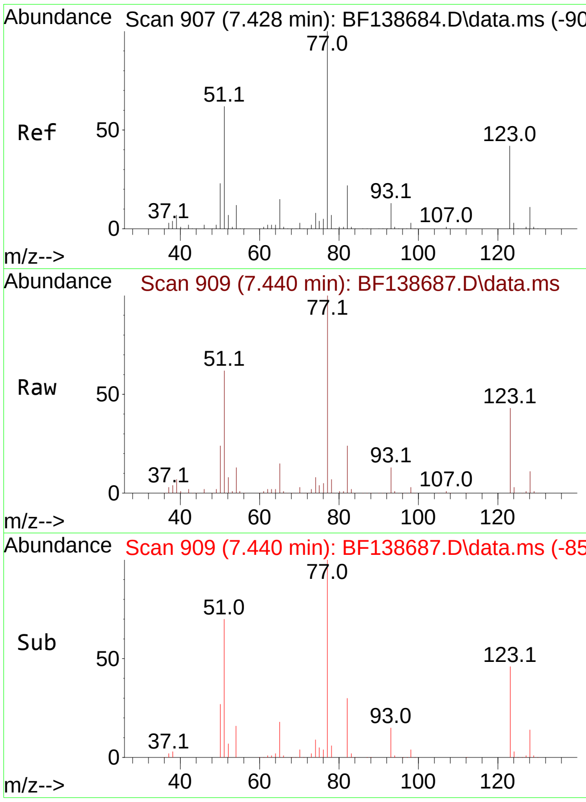
#23
Nitrobenzene-d5
Concen: 153.499 ng
RT: 7.422 min Scan# 906
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 82 Resp: 999276

Ion	Ratio	Lower	Upper
82	100		
128	41.3	32.8	49.2
54	59.8	48.3	72.5



ICAL Form



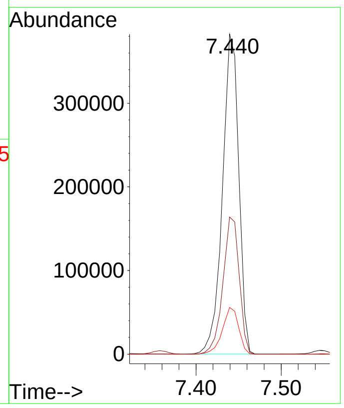
#24
Nitrobenzene
Concen: 77.019 ng
RT: 7.440 min   Scan# 9

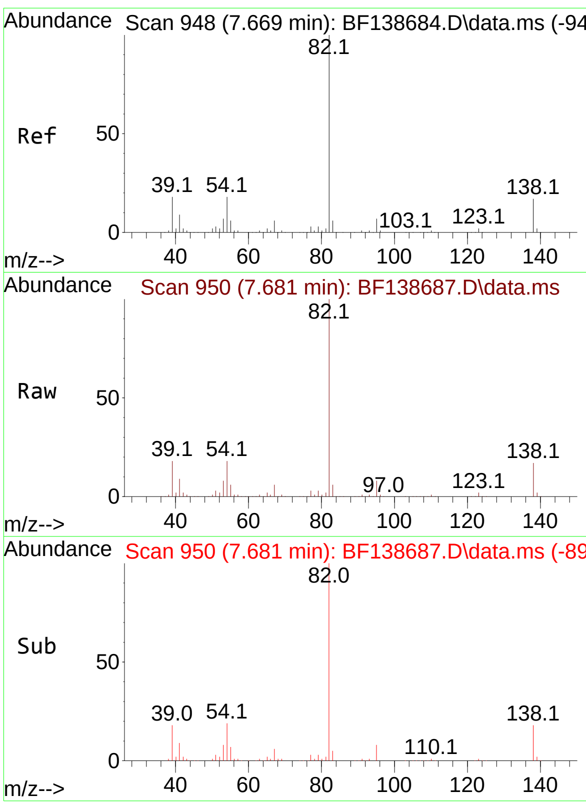
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Delta R.T.   0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024   16:29

Tgt Ion: 77 Resp: 510201

Ion	Ratio	Lower	Upper
77	100		
123	42.8	33.3	49.9
65	14.6	11.9	17.9

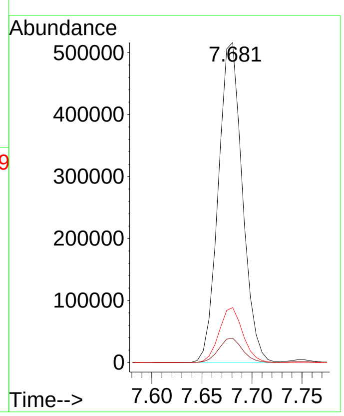




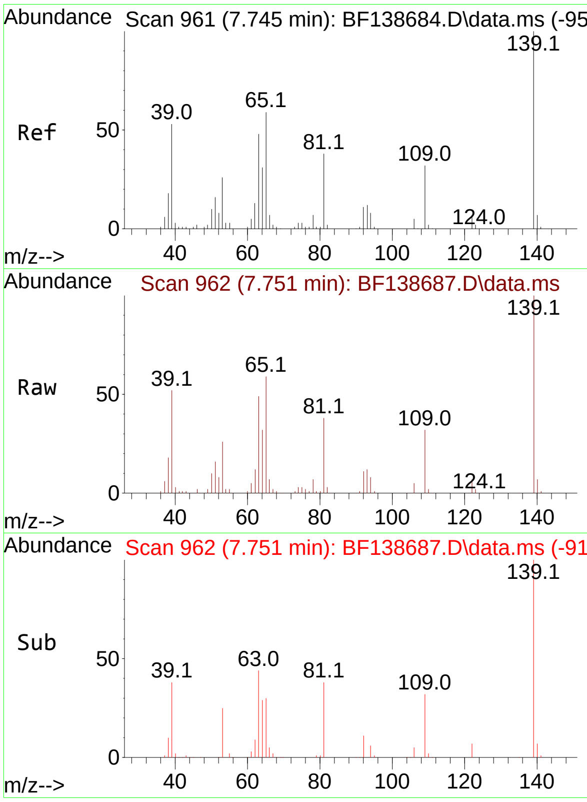
#25
Isophorone
Concen: 77.580 ng
RT: 7.681 min   Scan# 950
Delta R.T.   0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024   16:29

Tgt Ion: 82 Resp: 862380

Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.7	8.5
138	17.2	13.7	20.5



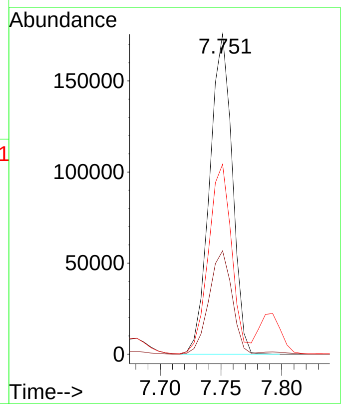
Instrument : BNA_F
ClientSampleId : SSTDICC080

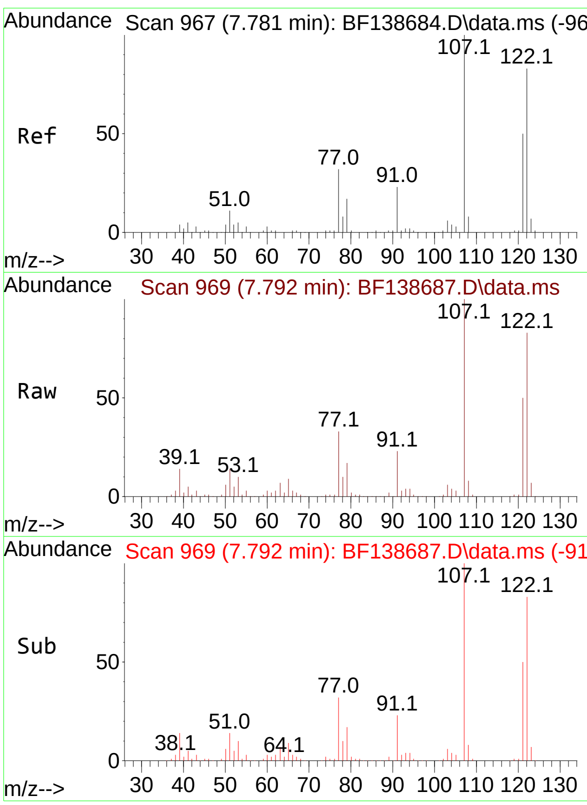


#26
2-Nitrophenol
Concen: 79.835 ng
RT: 7.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:139 Resp: 227531

Ion	Ratio	Lower	Upper
139	100		
109	32.3	25.9	38.9
65	59.3	47.0	70.6

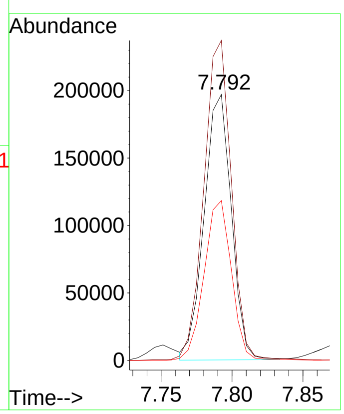




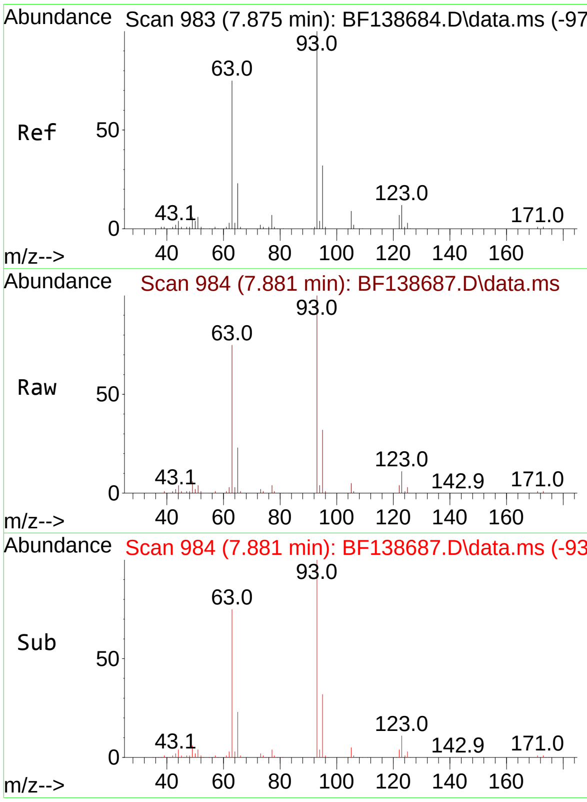
#27
2,4-Dimethylphenol
Concen: 77.265 ng
RT: 7.792 min Scan# 969
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:122 Resp: 263469

Ion	Ratio	Lower	Upper
122	100		
107	120.4	95.0	142.6
121	60.1	47.3	70.9



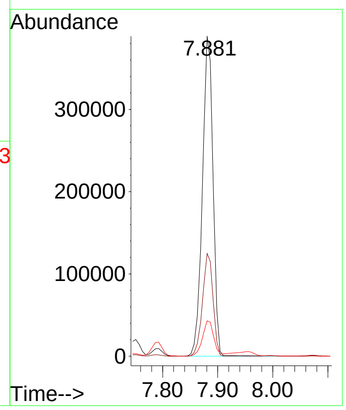
Instrument : BNA_F
ClientSampleId : SSTDICC080

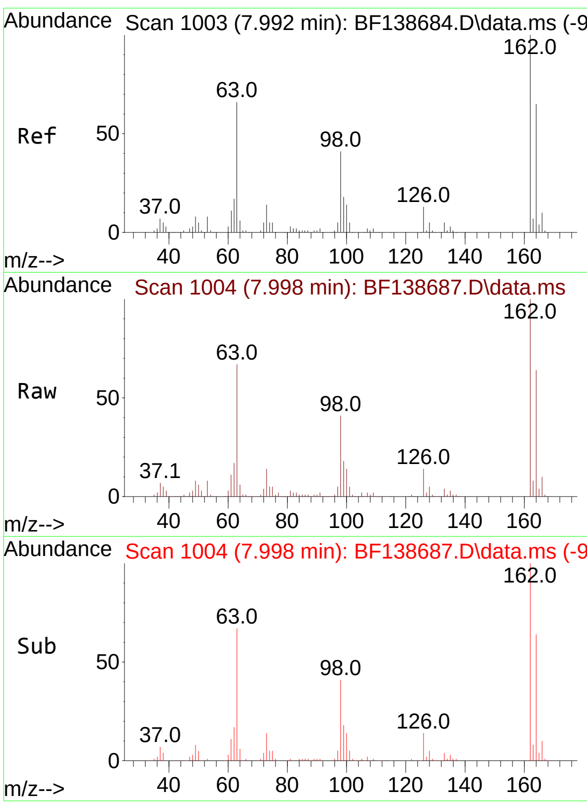


#28
bis(2-Chloroethoxy)methane
Concen: 77.190 ng
RT: 7.881 min Scan# 98
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 93 Resp: 522528

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.8	38.8
123	11.1	9.4	14.0

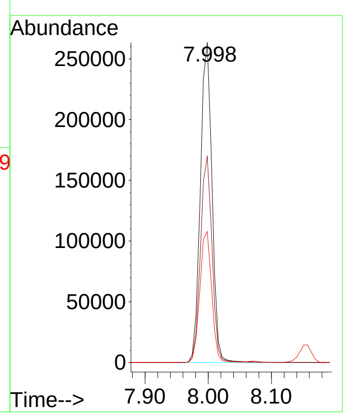




#29
2,4-Dichlorophenol
Concen: 76.805 ng
RT: 7.998 min Scan# 1004
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

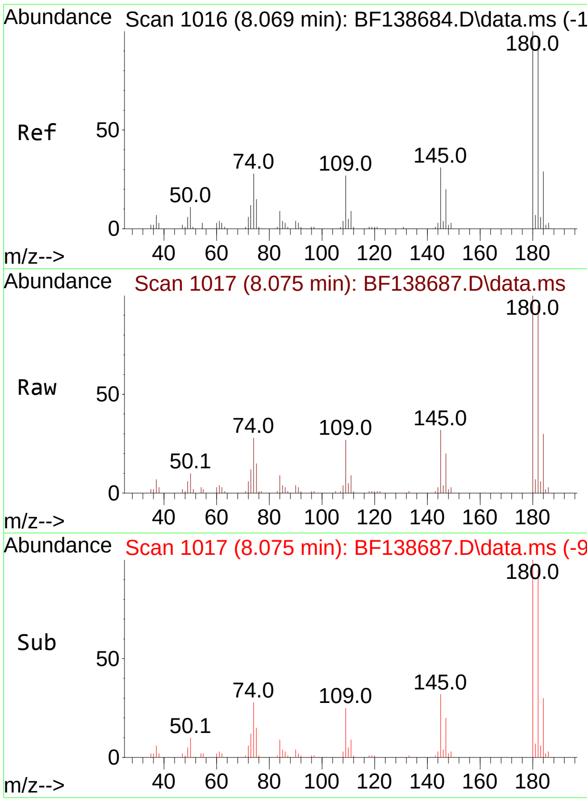
Tgt Ion:162 Resp: 336540

Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.7	84.7
98	40.9	20.8	60.8

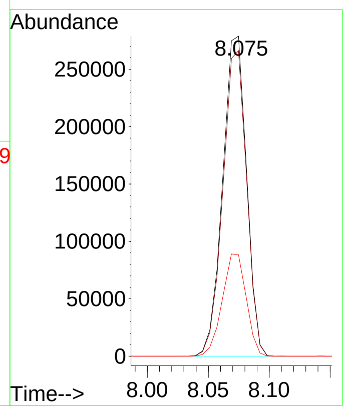


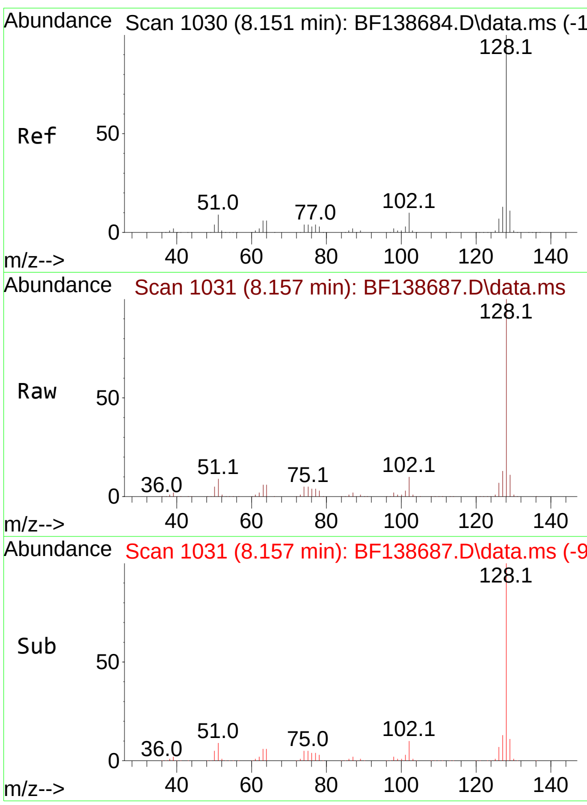
ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

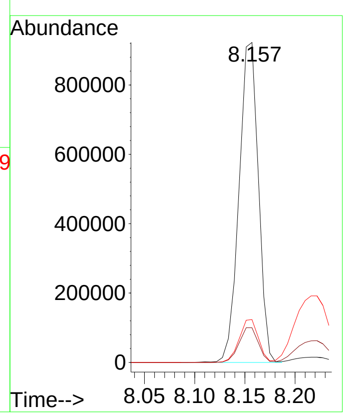



```
#30
1,2,4-Trichlorobenzene
Concen:   75.405 ng
RT:   8.075 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   BF138687.D
Acq: 30 Jul 2024  16:29

Tgt Ion:180 Resp:  381296
Ion  Ratio  Lower  Upper
180  100
182   95.5   76.9  115.3
145   31.7   25.0   37.4
```

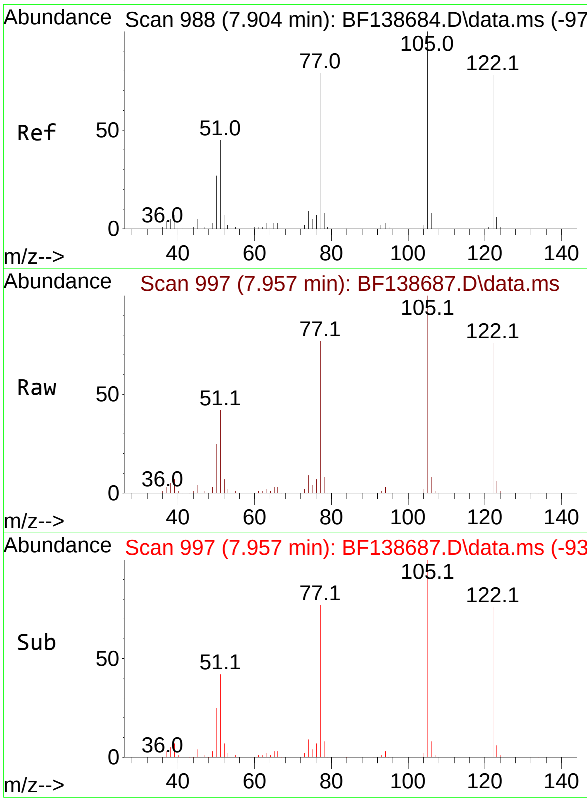





```
#31
Naphthalene
Concen:   74.139 ng
RT:   8.157 min  Scan# 1031
Delta R.T.  0.006 min
Lab File:   BF138687.D
Acq: 30 Jul 2024  16:29

Tgt Ion:128 Resp: 1242069
Ion  Ratio  Lower  Upper
128  100
129   10.9    8.7   13.1
127   13.4   10.6   16.0
```



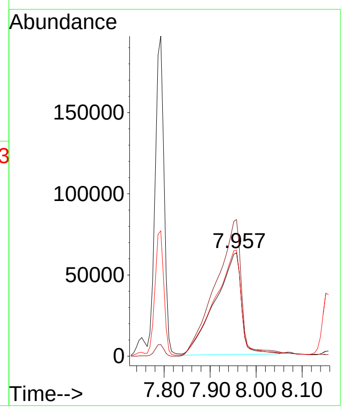
Instrument : BNA_F
ClientSampleId : SSTDICC080

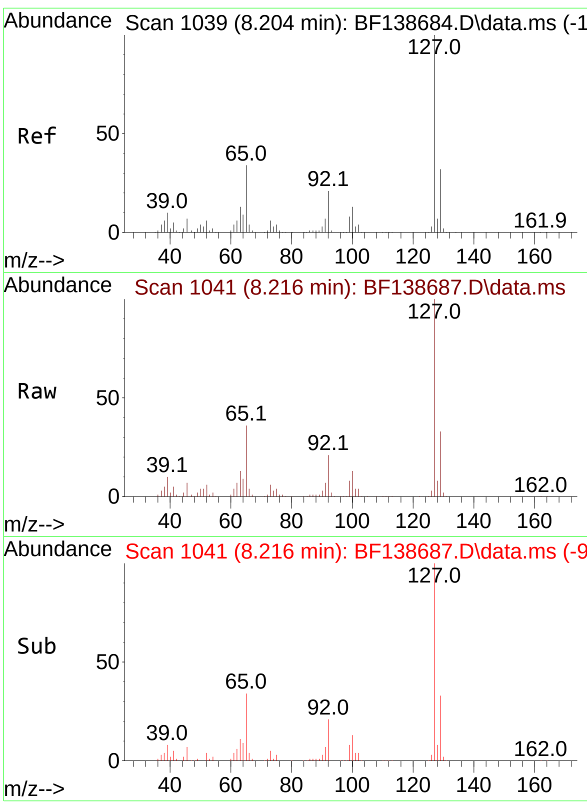


#32
Benzoic acid
Concen: 92.209 ng
RT: 7.957 min Scan# 9
Delta R.T. 0.053 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:122 Resp: 247058

Ion	Ratio	Lower	Upper
122	100		
105	132.3	106.7	146.7
77	102.5	81.1	121.1

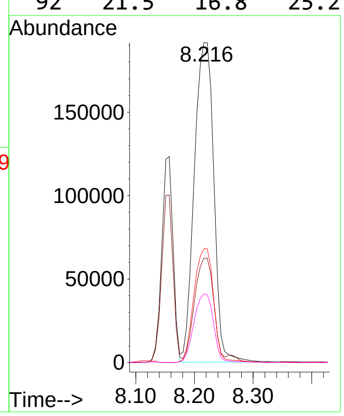




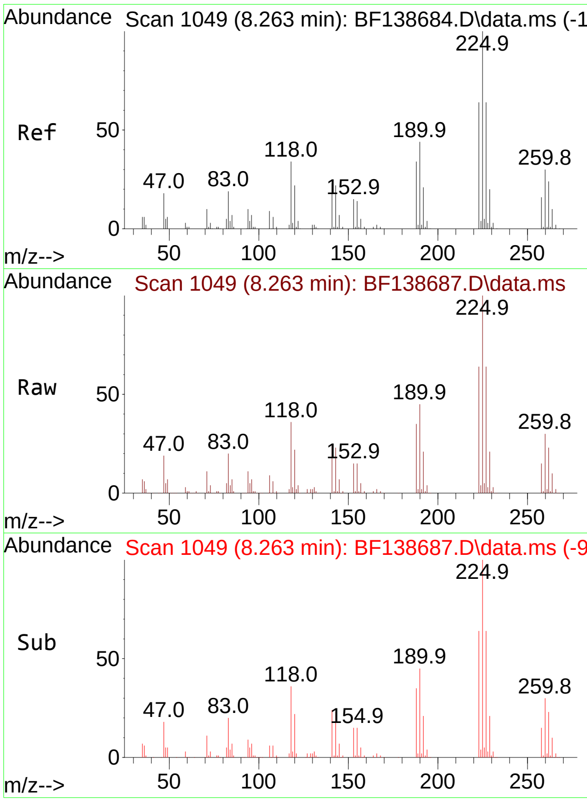
#33
4-Chloroaniline
Concen: 78.849 ng
RT: 8.216 min Scan# 1041
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:127 Resp: 443424

Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.9	38.9
65	35.6	27.6	41.4
92	21.5	16.8	25.2



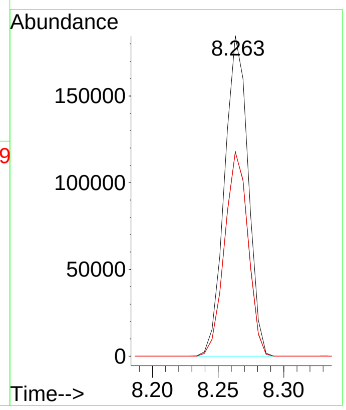
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

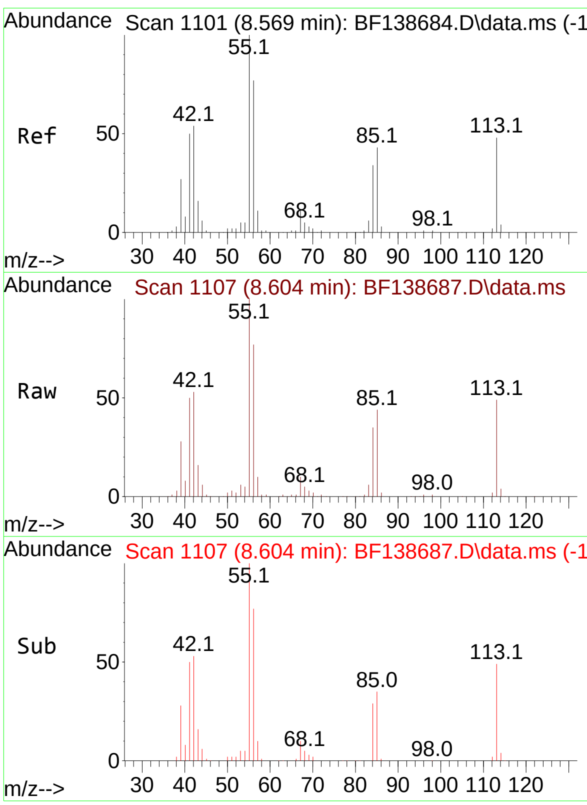


#34
Hexachlorobutadiene
Concen: 75.351 ng
RT: 8.263 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:225 Resp: 230783

Ion	Ratio	Lower	Upper
225	100		
223	64.0	51.2	76.8
227	63.7	51.1	76.7

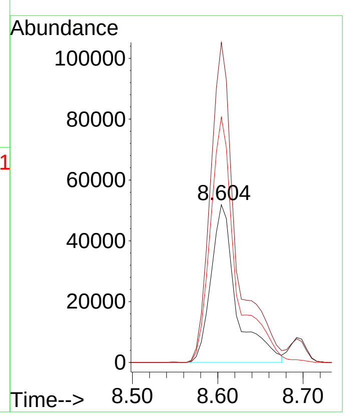




#35
Caprolactam
Concen: 82.539 ng
RT: 8.604 min Scan# 1107
Delta R.T. 0.035 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

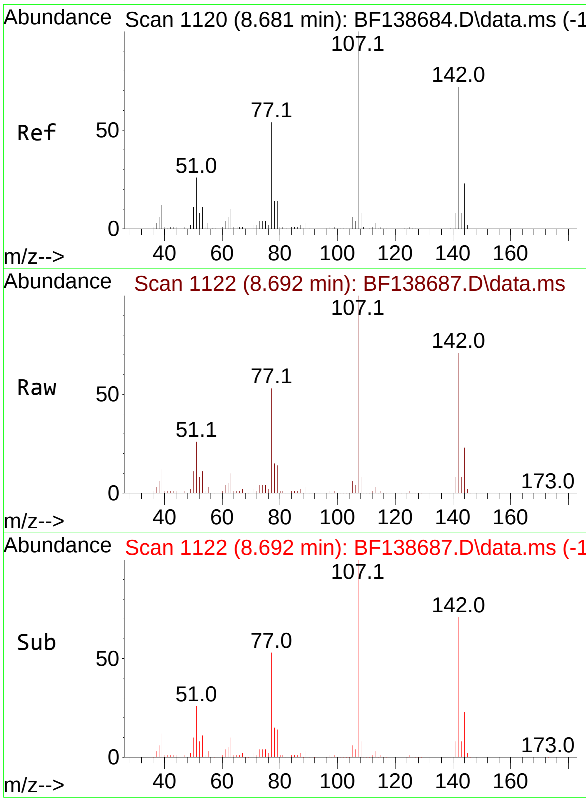
Tgt Ion:113 Resp: 107916

Ion	Ratio	Lower	Upper
113	100		
55	202.9	186.7	226.7
56	155.5	138.9	178.9



ICAL Form

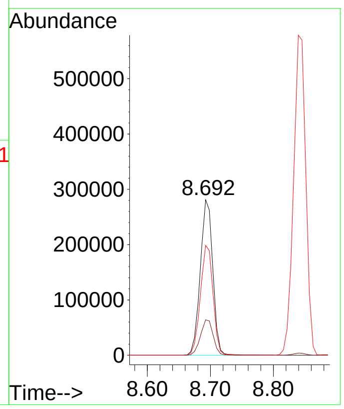
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

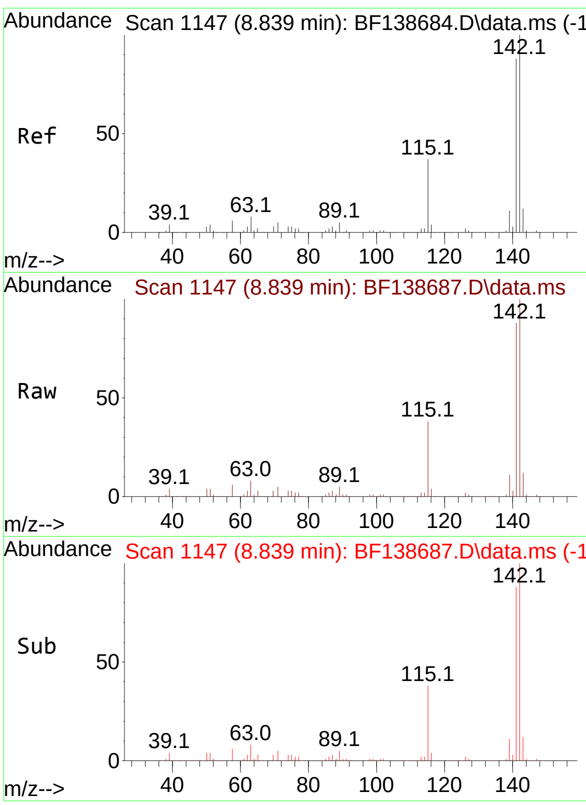


#36
4-Chloro-3-methylphenol
Concen: 77.158 ng
RT: 8.692 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:107 Resp: 386382

Ion	Ratio	Lower	Upper
107	100		
144	22.8	18.2	27.2
142	70.7	57.4	86.2

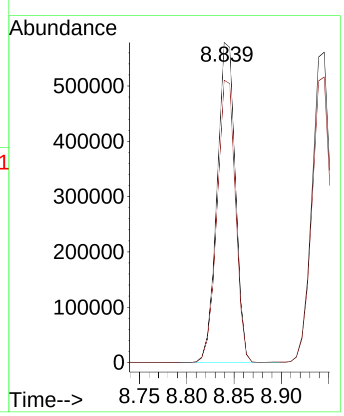




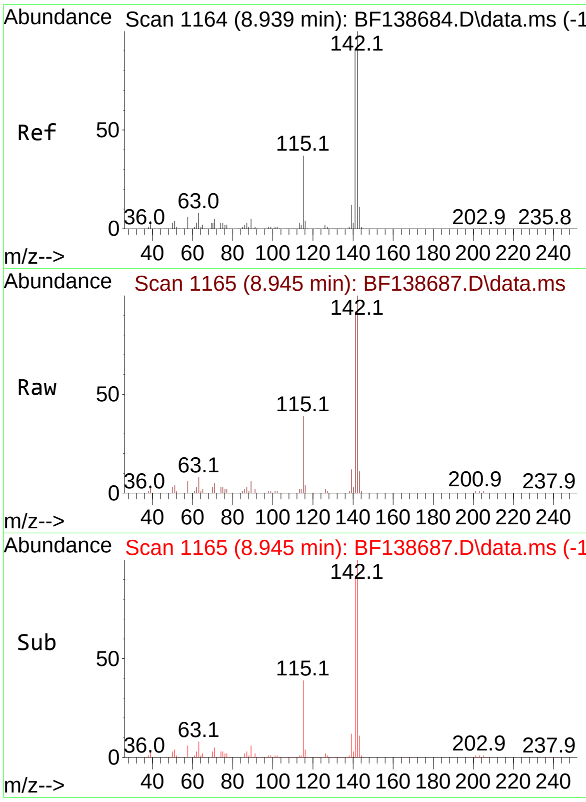
#37
2-Methylnaphthalene
Concen: 73.988 ng
RT: 8.839 min Scan# 1147
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:142 Resp: 782843

Ion	Ratio	Lower	Upper
142	100		
141	88.2	70.8	106.2



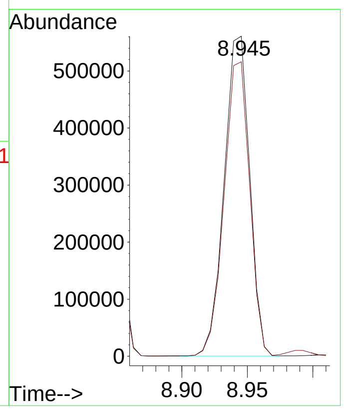
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

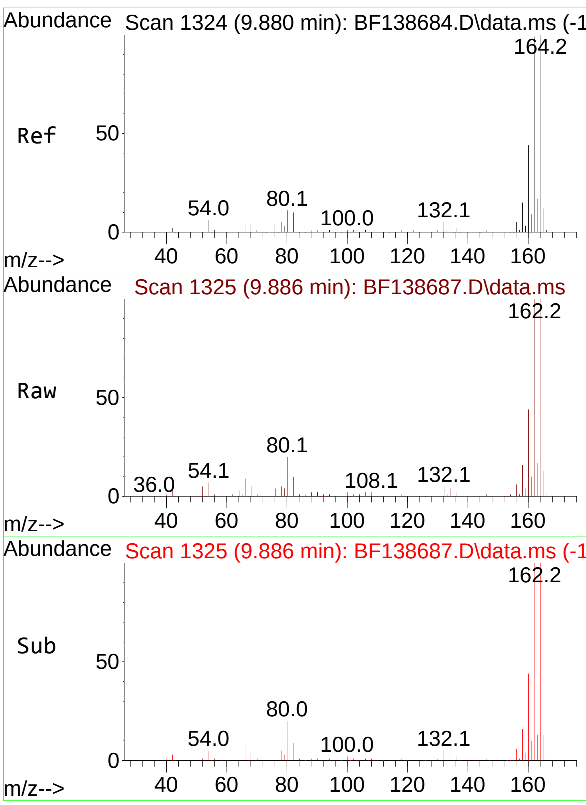


#38
1-Methylnaphthalene
Concen: 73.328 ng
RT: 8.945 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:142 Resp: 760272

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.1	109.7

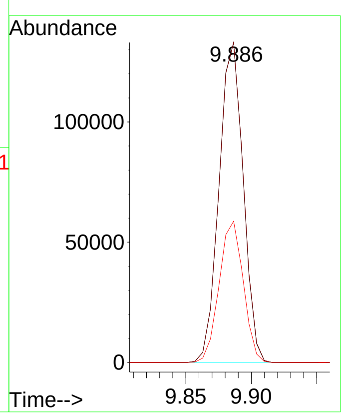




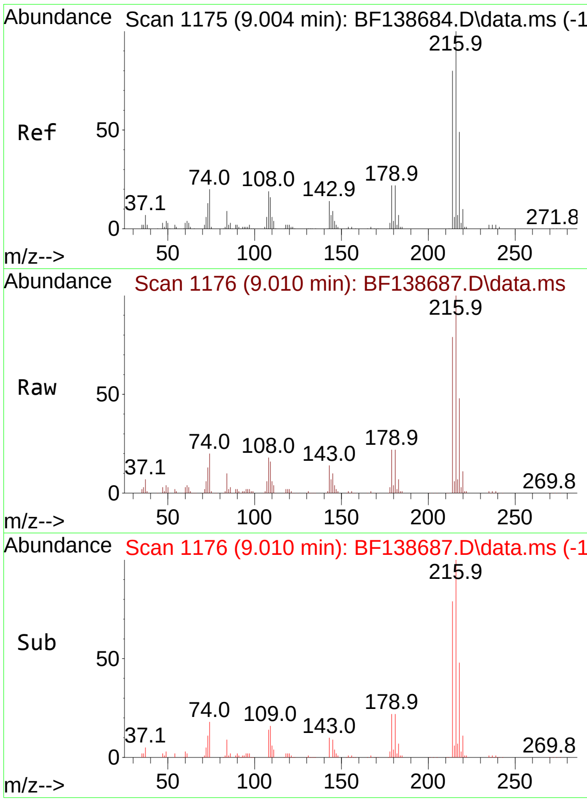
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1325
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:164 Resp: 170513

Ion	Ratio	Lower	Upper
164	100		
162	100.0	79.4	119.0
160	44.2	35.1	52.7



ICAL Form



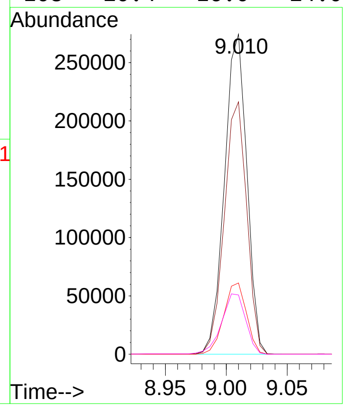
#40
1,2,4,5-Tetrachlorobenzene
Concen: 74.196 ng
RT: 9.010 min Scan# 1

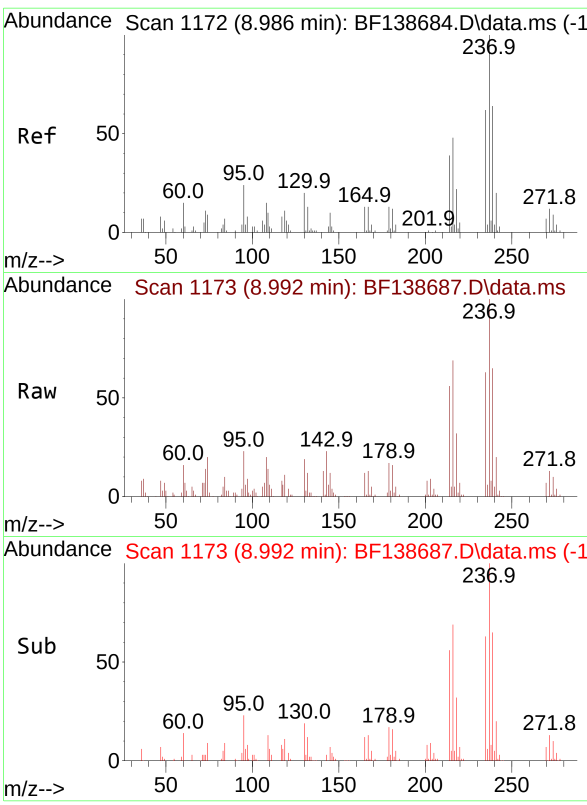
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:216 Resp: 351438

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.9	95.9
179	22.5	17.8	26.6
108	20.4	16.0	24.0

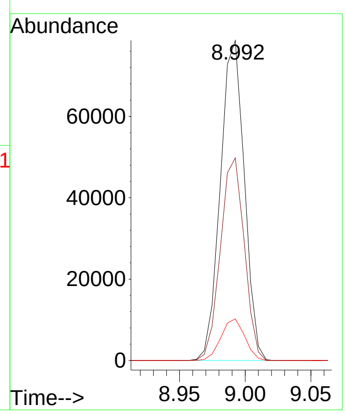




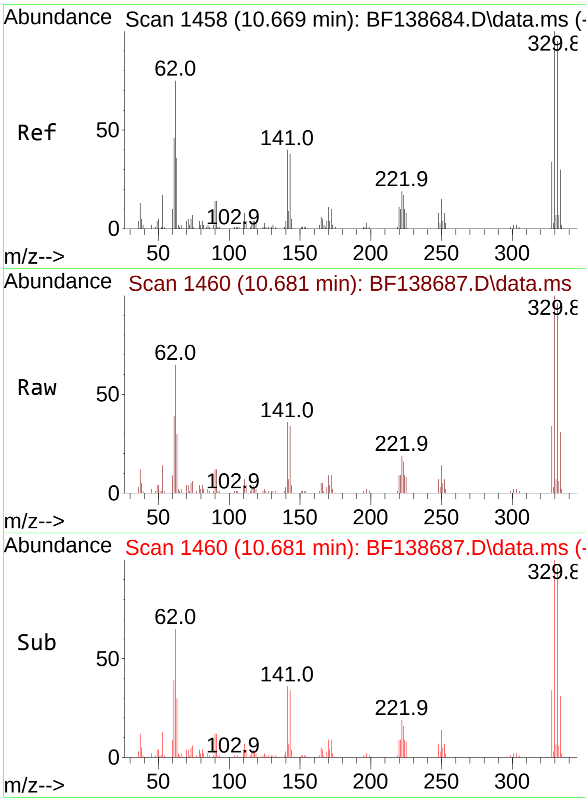
#41
Hexachlorocyclopentadiene
Concen: 79.729 ng
RT: 8.992 min Scan# 1173
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:237 Resp: 99926

Ion	Ratio	Lower	Upper
237	100		
235	63.3	41.8	81.8
272	13.0	0.0	32.2



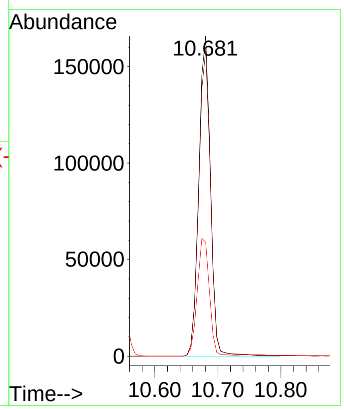
Instrument : BNA_F
ClientSampleId : SSTDICC080

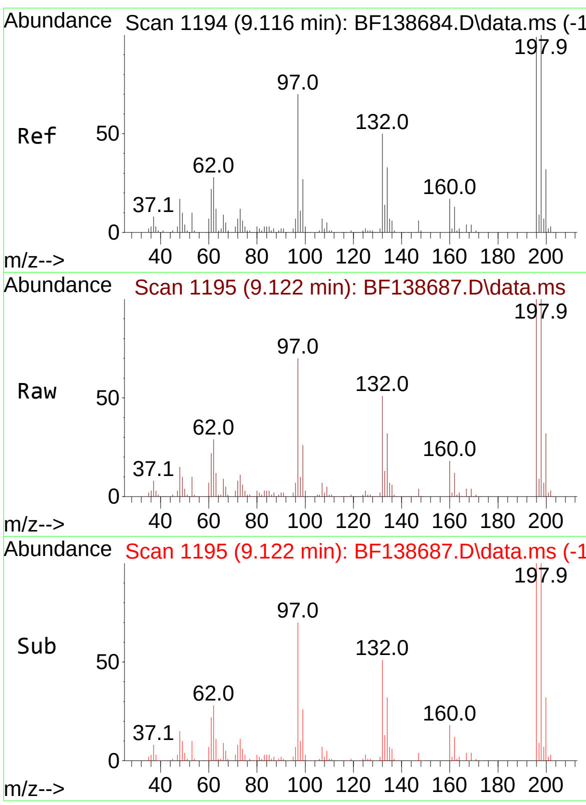


#42
2,4,6-Tribromophenol
Concen: 154.157 ng
RT: 10.681 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:330 Resp: 215316

Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.4	114.6
141	37.9	31.1	46.7

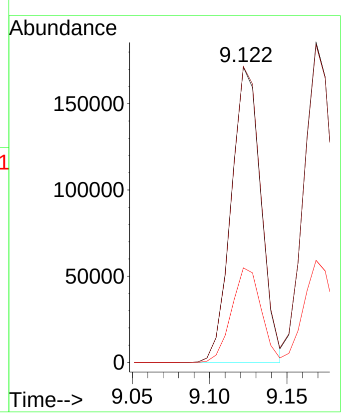




#43
2,4,6-Trichlorophenol
Concen: 78.913 ng
RT: 9.122 min Scan# 1195
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

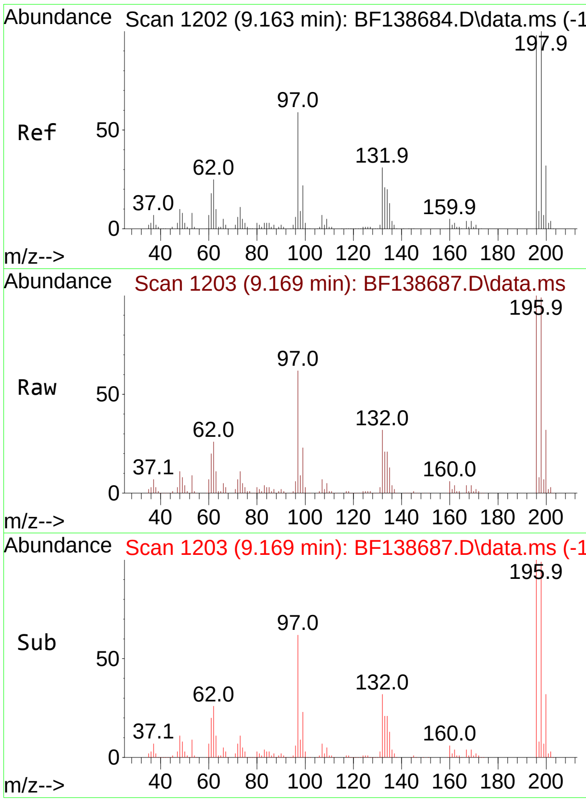
Tgt Ion:196 Resp: 227901

Ion	Ratio	Lower	Upper
196	100		
198	100.2	80.5	120.7
200	32.0	25.9	38.9



ICAL Form

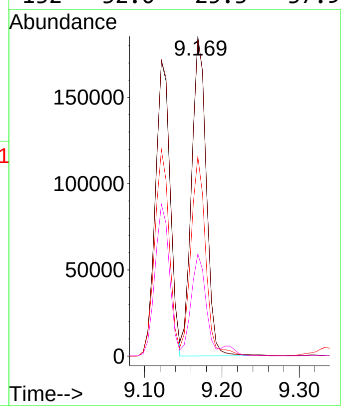
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

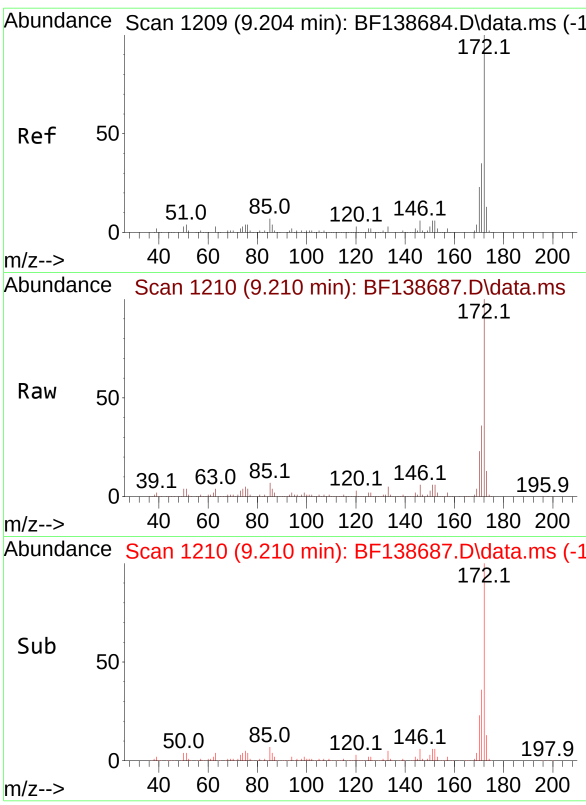


#44
2,4,5-Trichlorophenol
Concen: 77.822 ng
RT: 9.169 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:196 Resp: 245697

Ion	Ratio	Lower	Upper
196	100		
198	99.3	81.2	121.8
97	62.4	47.8	71.6
132	32.0	25.3	37.9

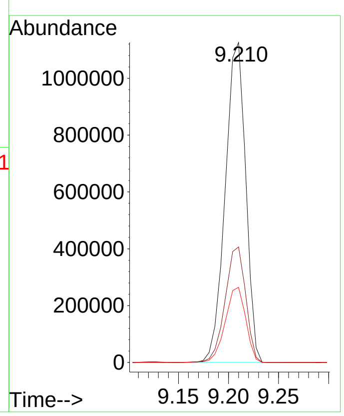




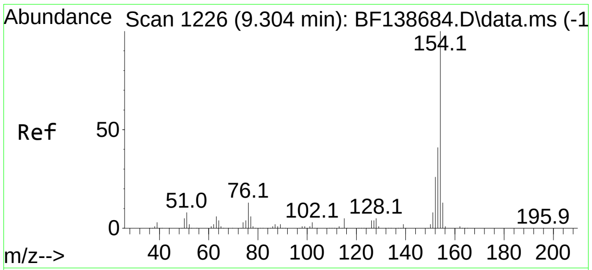
#45
2-Fluorobiphenyl
Concen: 140.843 ng
RT: 9.210 min Scan# 1210
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

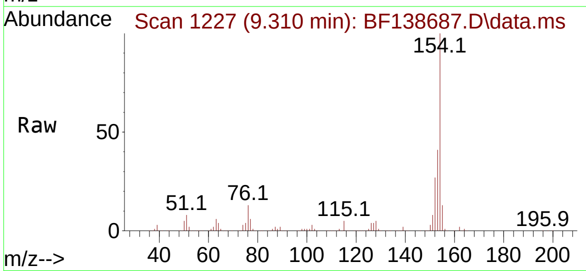
Tgt Ion:172 Resp: 1598378

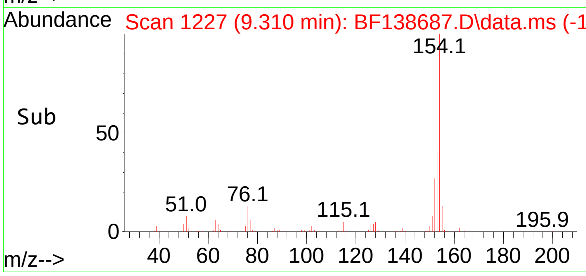
Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.3	42.5
170	23.5	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080



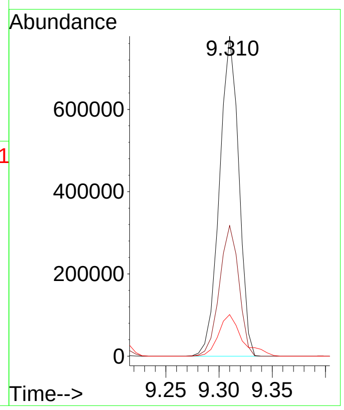


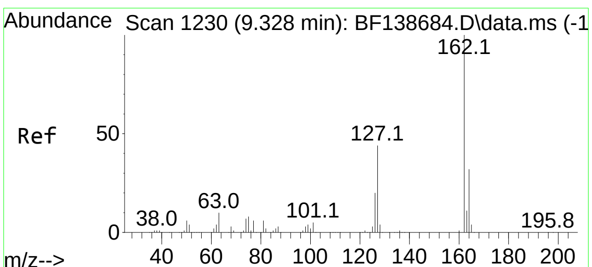


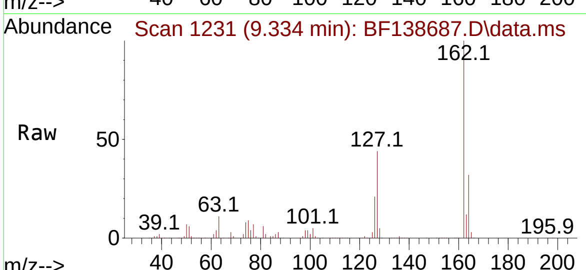
#46
1,1'-Biphenyl
Concen: 73.651 ng
RT: 9.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

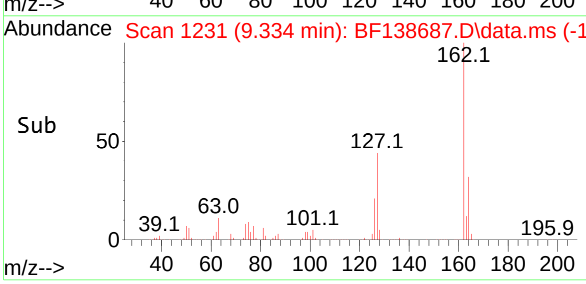
Tgt Ion:154 Resp: 983564

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.8	60.8
76	13.0	0.0	32.8





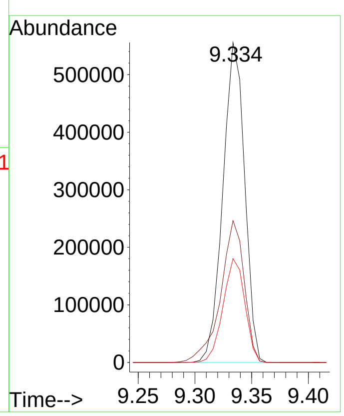




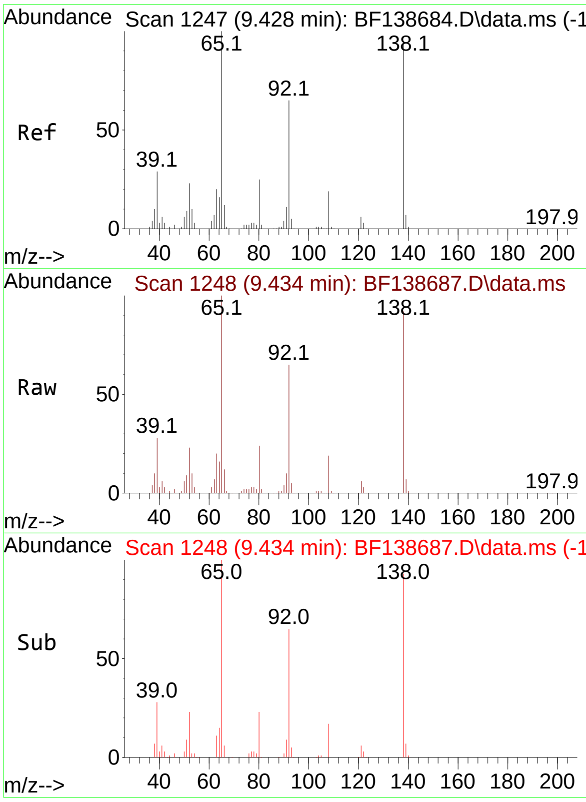
#47
2-Chloronaphthalene
Concen: 74.793 ng
RT: 9.334 min Scan# 1231
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:162 Resp: 742852

Ion	Ratio	Lower	Upper
162	100		
127	44.4	35.4	53.2
164	32.4	25.6	38.4



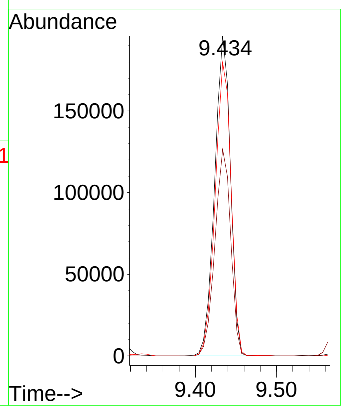
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

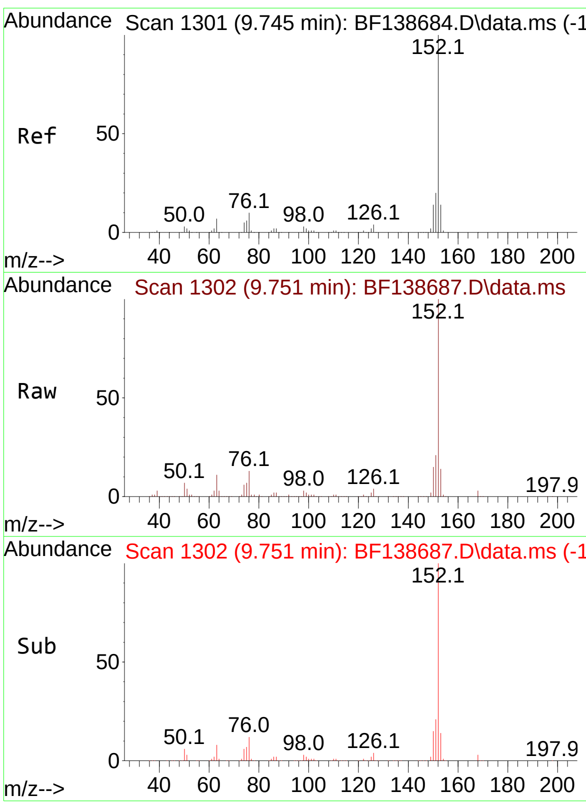


#48
2-Nitroaniline
Concen: 79.066 ng
RT: 9.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 65 Resp: 266220

Ion	Ratio	Lower	Upper
65	100		
92	64.6	52.0	78.0
138	91.7	76.2	114.4

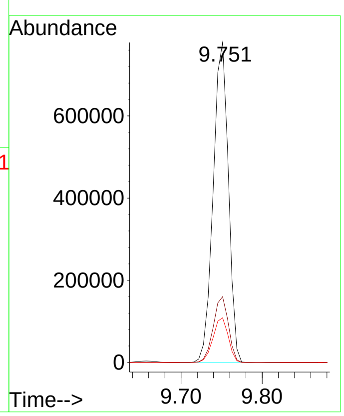




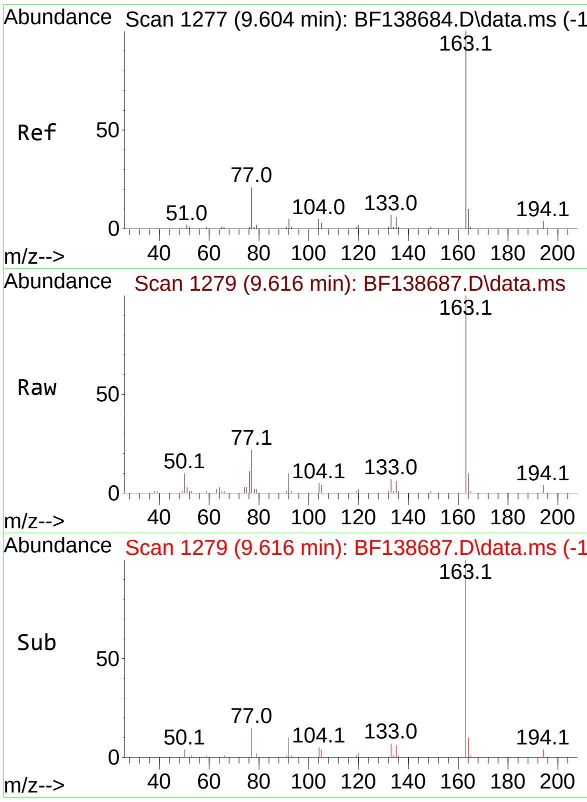
#49
Acenaphthylene
Concen: 71.944 ng
RT: 9.751 min Scan# 1302
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:152 Resp: 1013441

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.0	24.0
153	14.0	11.0	16.4



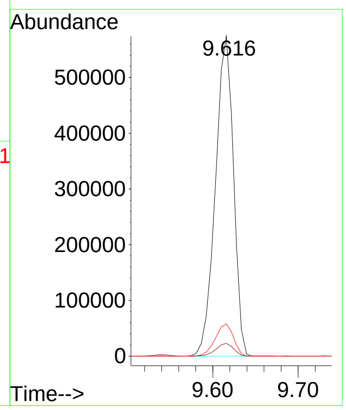
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

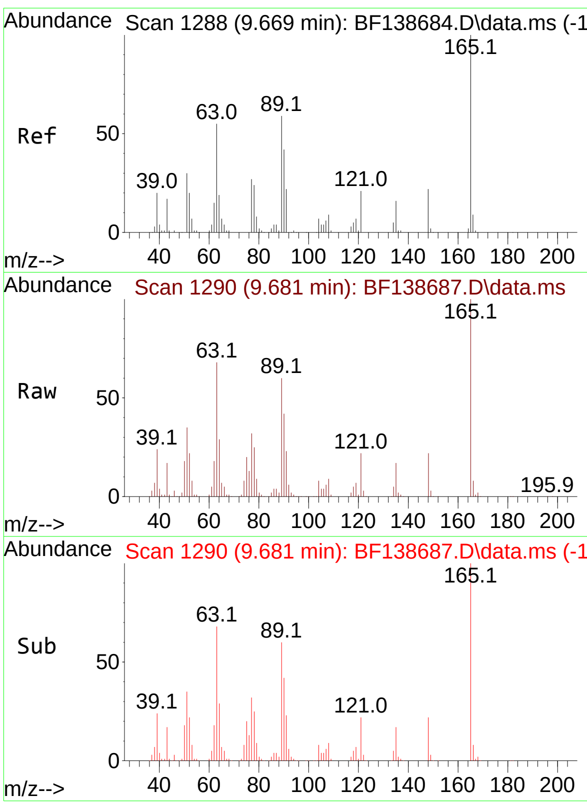


#50
Dimethylphthalate
Concen: 77.379 ng
RT: 9.616 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:163 Resp: 843645

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.1	7.8	11.8

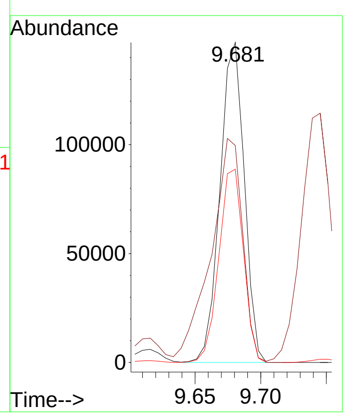




#51
2,6-Dinitrotoluene
Concen: 76.868 ng
RT: 9.681 min Scan# 1290
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

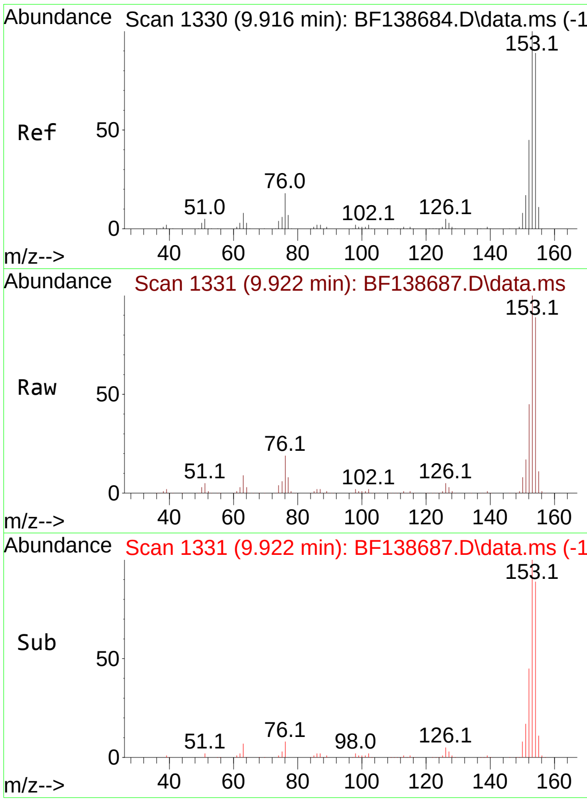
Tgt Ion:165 Resp: 189138

Ion	Ratio	Lower	Upper
165	100		
63	67.8	52.0	78.0
89	60.4	47.0	70.6



ICAL Form

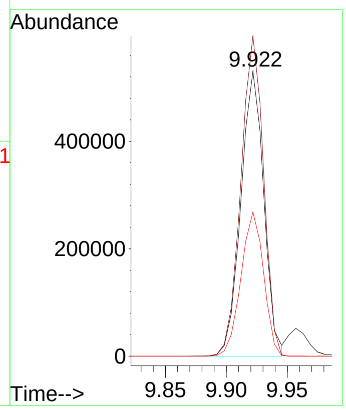
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

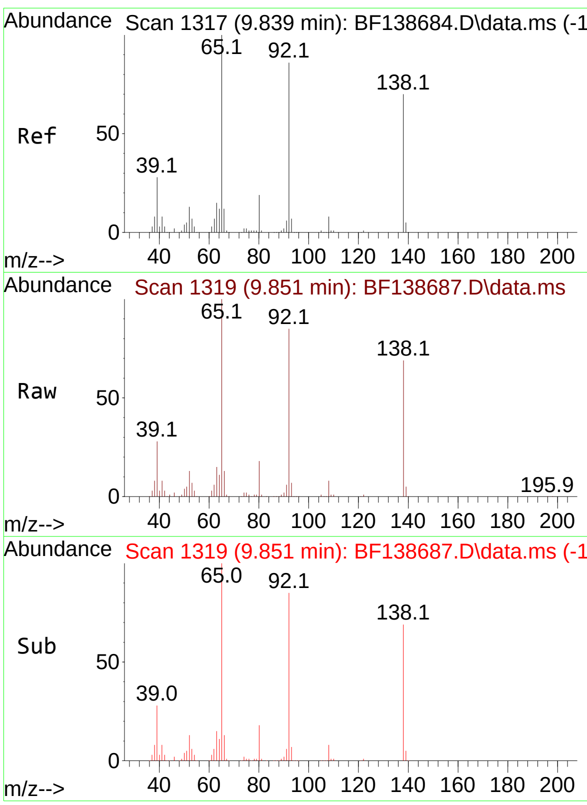


#52
Acenaphthene
Concen: 73.198 ng
RT: 9.922 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:154 Resp: 693130

Ion	Ratio	Lower	Upper
154	100		
153	112.3	89.9	134.9
152	50.6	40.6	60.8

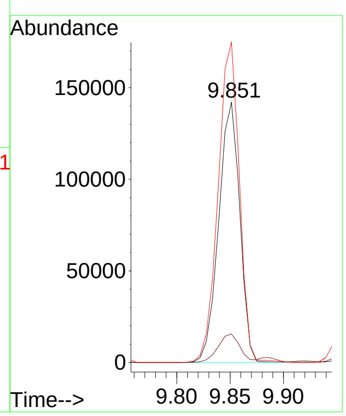




#53
3-Nitroaniline
Concen: 76.581 ng
RT: 9.851 min Scan# 1319
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

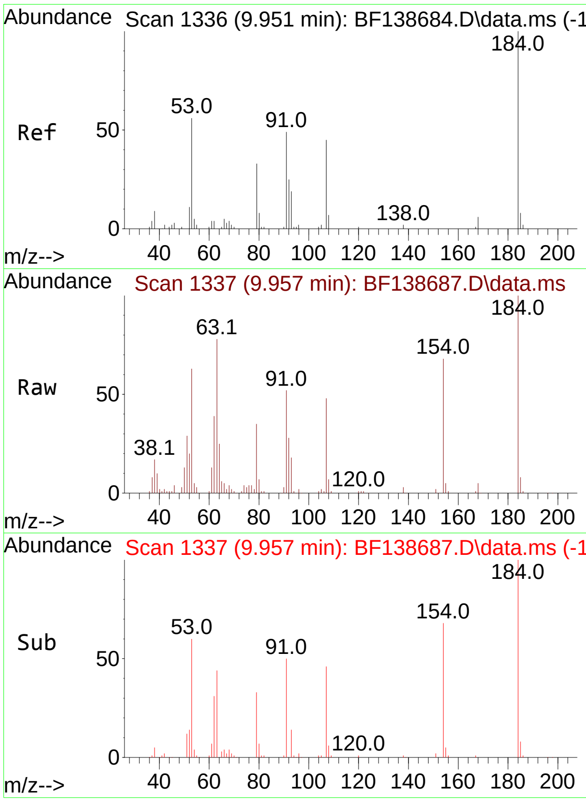
Tgt Ion:138 Resp: 194796

Ion	Ratio	Lower	Upper
138	100		
108	11.0	9.1	13.7
92	123.1	98.7	148.1



ICAL Form

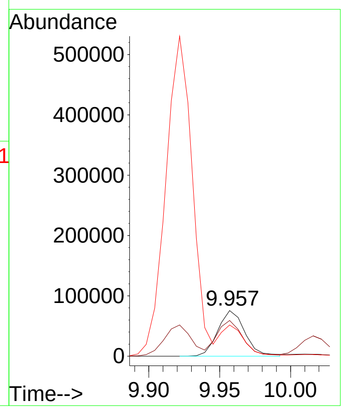
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

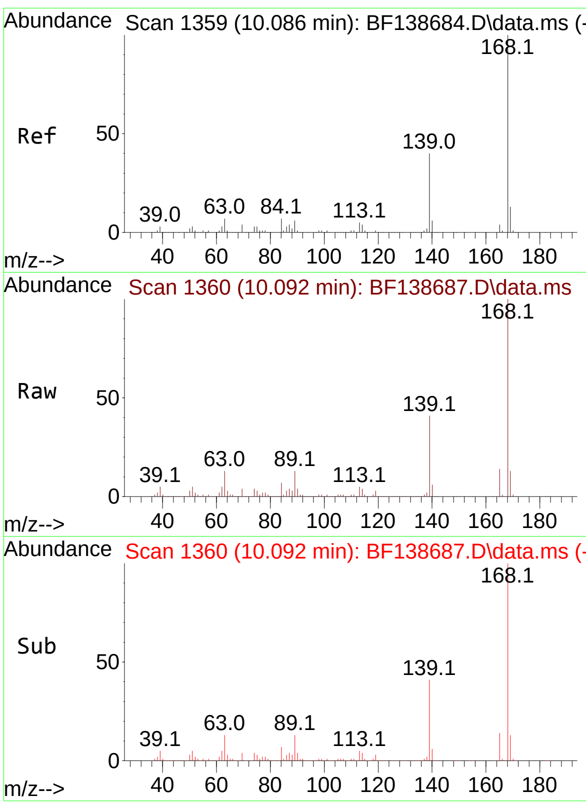


#54
2,4-Dinitrophenol
Concen: 88.986 ng
RT: 9.957 min   Scan# 1
Delta R.T.   0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024   16:29

Tgt Ion:184 Resp: 100793

Ion	Ratio	Lower	Upper
184	100		
63	78.3	57.5	86.3
154	68.5	51.7	77.5

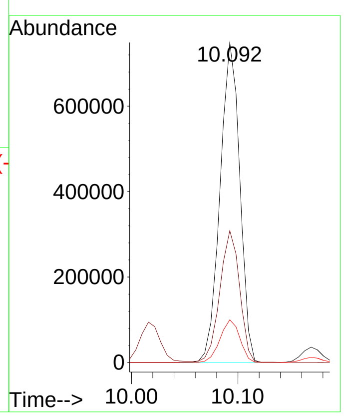




#55
Dibenzofuran
Concen: 72.071 ng
RT: 10.092 min   Scan# 1360
Delta R.T.   0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024   16:29

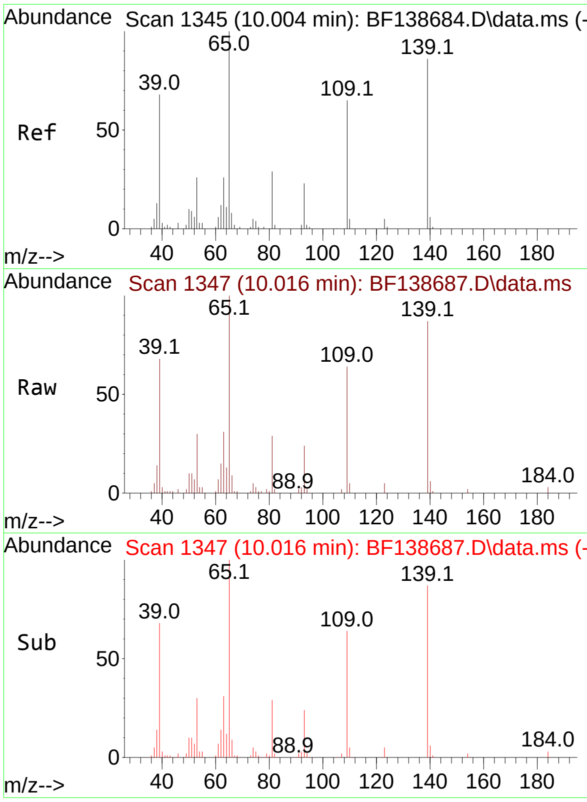
Tgt Ion:168 Resp: 963359

Ion	Ratio	Lower	Upper
168	100		
139	41.2	32.6	49.0
169	13.4	10.7	16.1

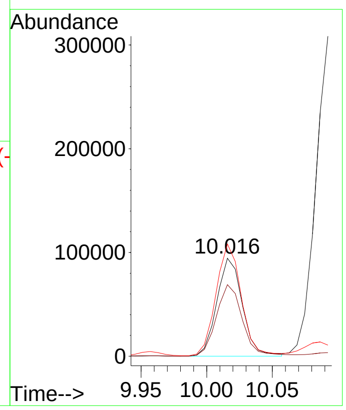


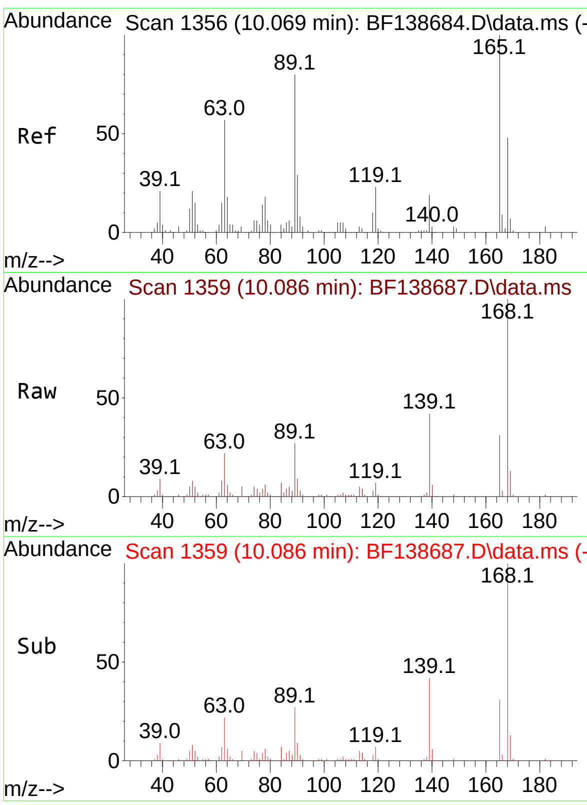
ICAL Form

Instrument : BNA_F
ClientSampleId : SSTDICC080

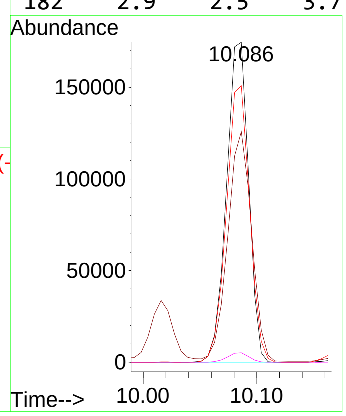



```
#56
4-Nitrophenol
Concen:   83.411 ng
RT:  10.016 min  Scan# 1
Delta R.T.  0.012 min
Lab File:   BF138687.D
Acq: 30 Jul 2024  16:29

Tgt Ion:139 Resp:  127589
Ion  Ratio  Lower  Upper
139  100
109   73.1   55.5   95.5
 65  114.7   96.7  136.7
```

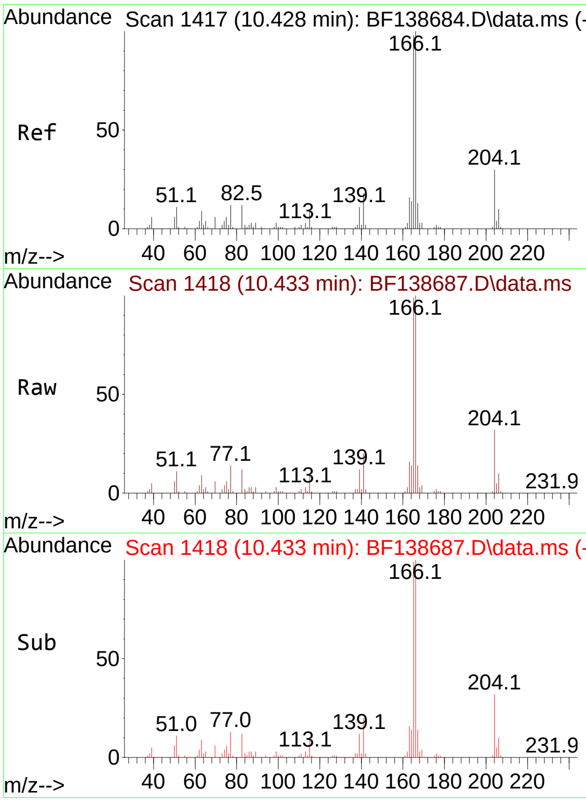





```
#57
2,4-Dinitrotoluene
Concen:   75.642 ng
RT:  10.086 min  Scan# 1359
Delta R.T.  0.018 min
Lab File:   BF138687.D
Acq: 30 Jul 2024  16:29

Tgt Ion:165 Resp:  237463
Ion  Ratio  Lower  Upper
165  100
 63   72.1   46.3   69.5#
 89   86.4   64.2   96.4
182    2.9    2.5    3.7
```



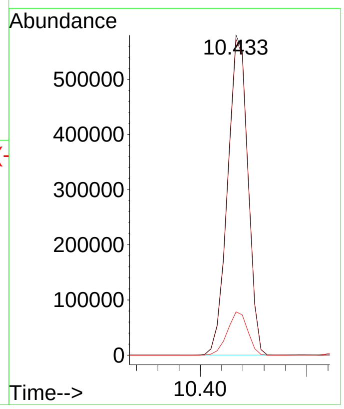
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

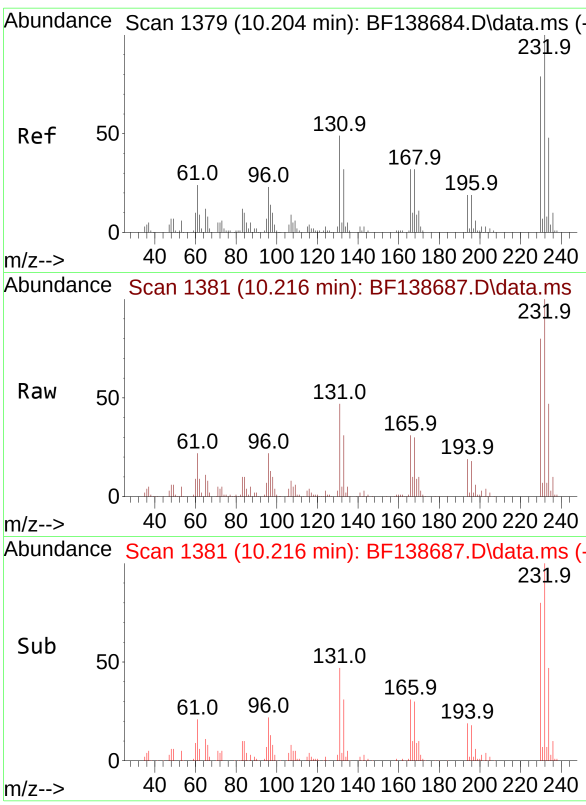


#58
Fluorene
Concen: 72.188 ng
RT: 10.433 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:166 Resp: 768404

Ion	Ratio	Lower	Upper
166	100		
165	98.7	78.4	117.6
167	13.6	10.6	16.0

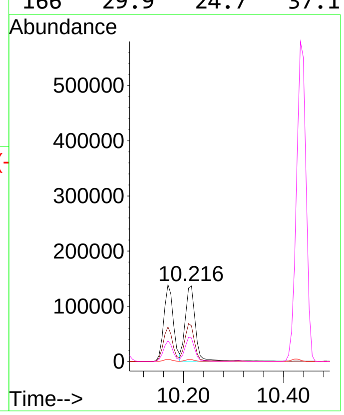




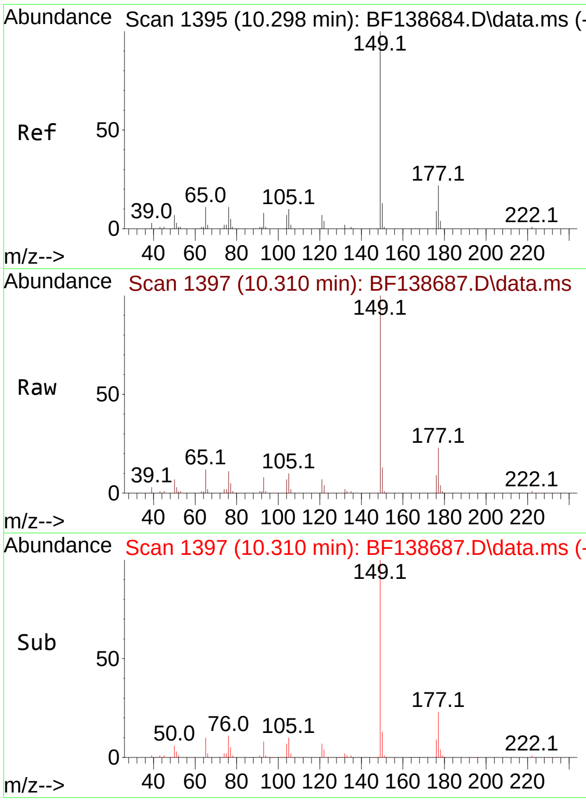
#59
2,3,4,6-Tetrachlorophenol
Concen: 79.721 ng
RT: 10.216 min Scan# 1381
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:232 Resp: 192425

Ion	Ratio	Lower	Upper
232	100		
131	48.4	37.0	55.4
130	2.5	2.0	3.0
166	29.9	24.7	37.1



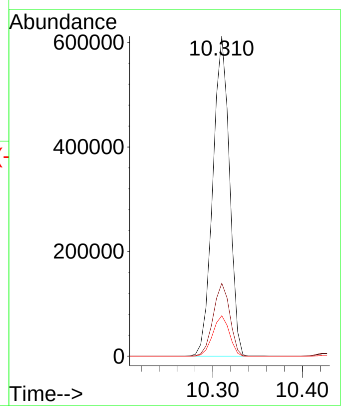
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

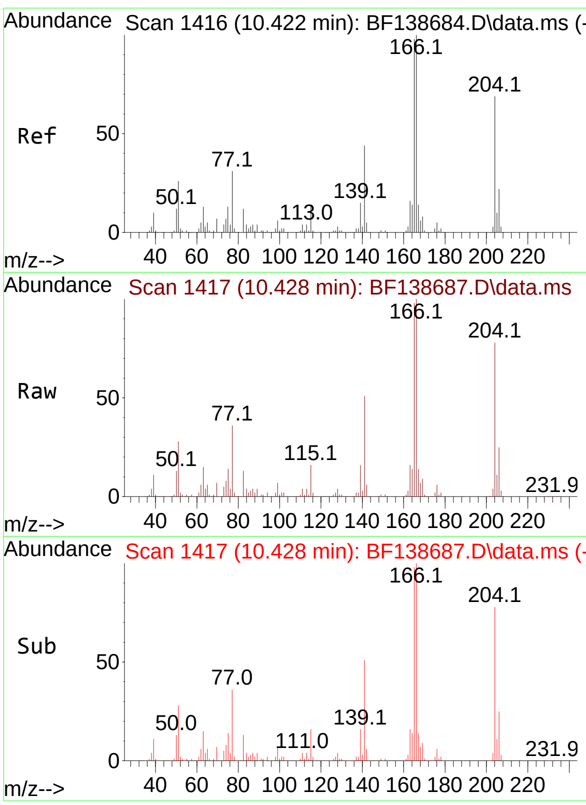


#60
Diethylphthalate
Concen: 76.270 ng
RT: 10.310 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:149 Resp: 788464

Ion	Ratio	Lower	Upper
149	100		
177	22.8	17.8	26.8
150	12.7	10.1	15.1

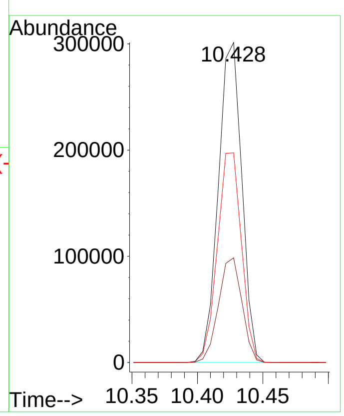




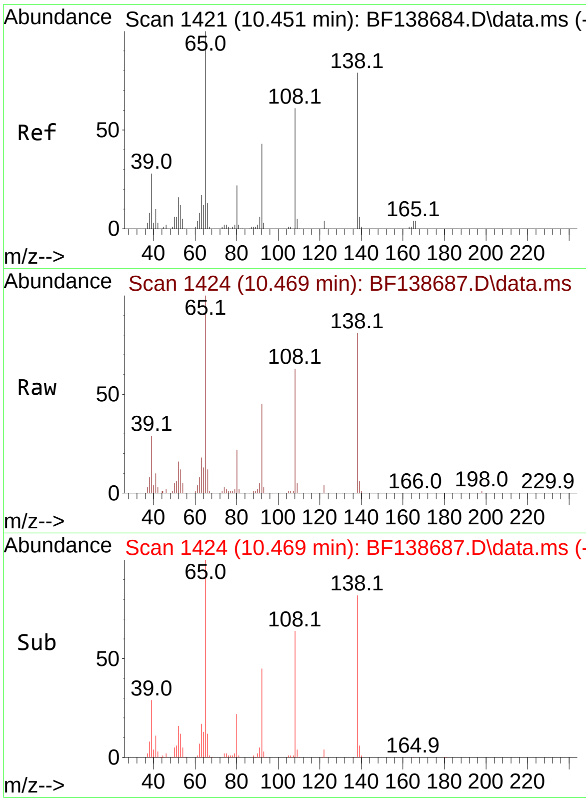
#61
4-Chlorophenyl-phenylether
Concen: 71.847 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:204 Resp: 376130

Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.1	39.1
141	65.5	51.4	77.0



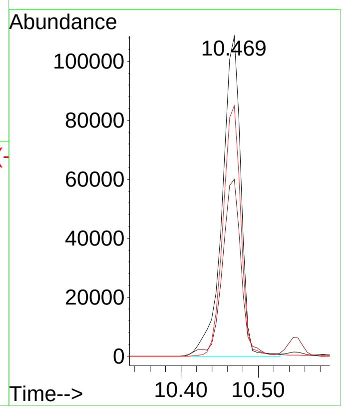
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

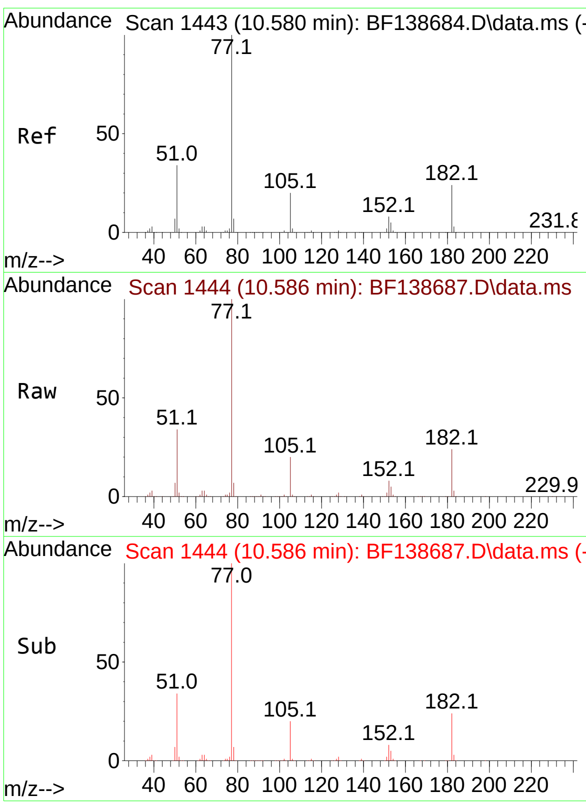


#62
4-Nitroaniline
Concen: 75.227 ng
RT: 10.469 min   Scan# 14
Delta R.T. 0.018 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:138 Resp: 181845

Ion	Ratio	Lower	Upper
138	100		
92	55.3	34.2	74.2
108	78.3	56.2	96.2

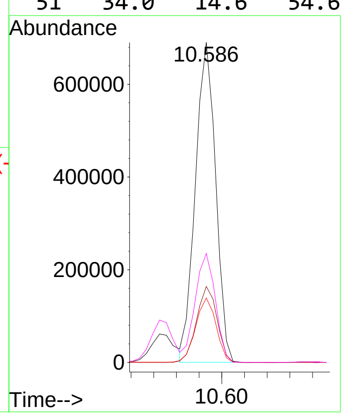




#63
Azobenzene
Concen: 74.806 ng
RT: 10.586 min   Scan# 1444
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

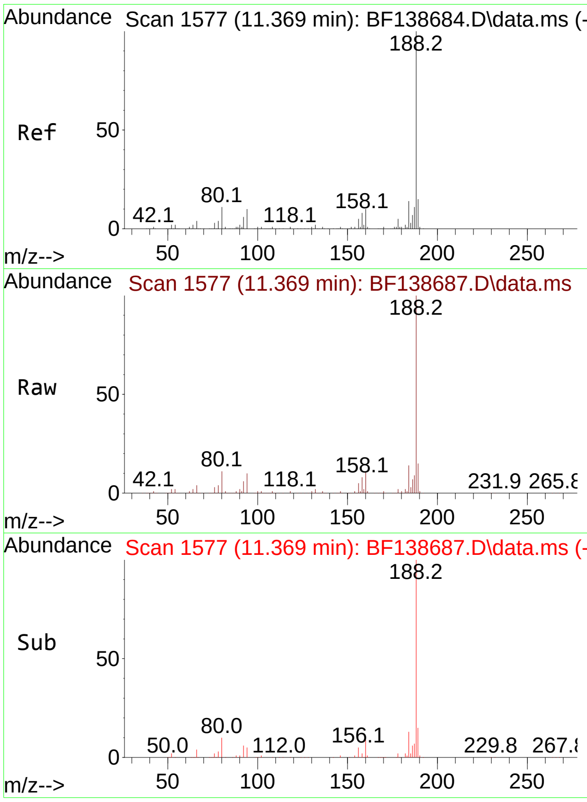
Tgt Ion: 77 Resp: 857699

Ion	Ratio	Lower	Upper
77	100		
182	23.8	3.4	43.4
105	20.1	0.2	40.2
51	34.0	14.6	54.6



ICAL Form

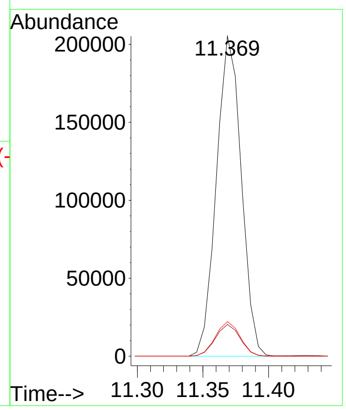
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

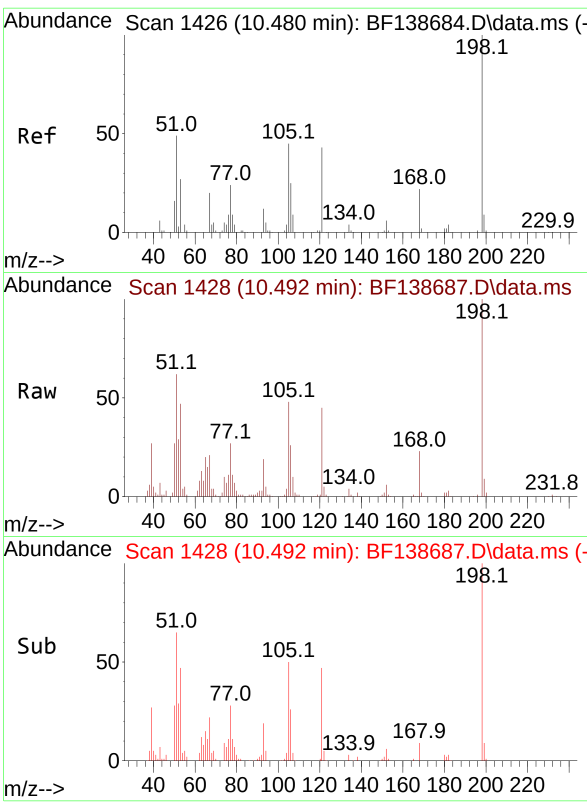


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:188 Resp: 270140

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.6	11.4
80	10.8	8.6	12.8

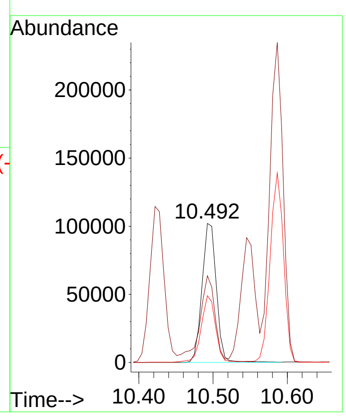




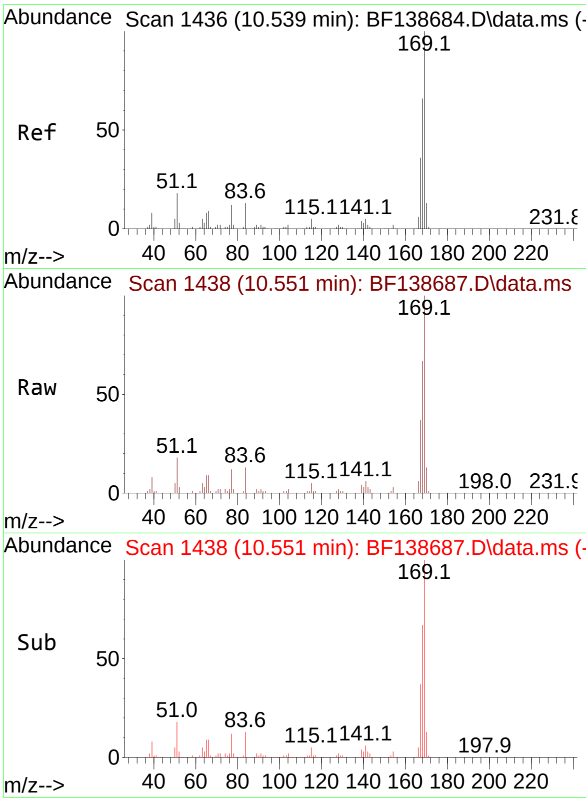
#65
4,6-Dinitro-2-methylphenol
Concen: 83.368 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:198 Resp: 137397

Ion	Ratio	Lower	Upper
198	100		
51	62.4	39.9	79.9
105	48.0	26.1	66.1



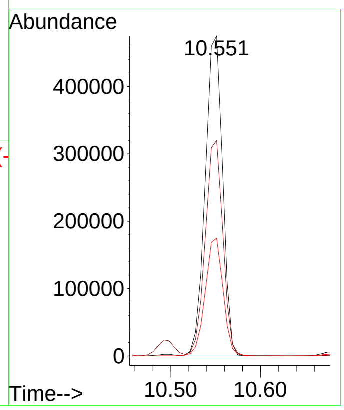
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

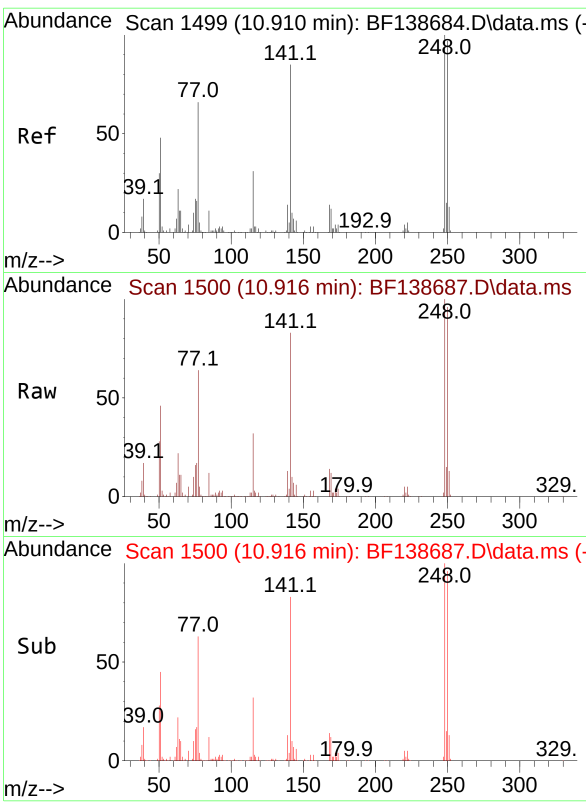


#66
n-Nitrosodiphenylamine
Concen: 76.022 ng
RT: 10.551 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:169 Resp: 641930

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.0	79.6
167	36.8	29.0	43.6

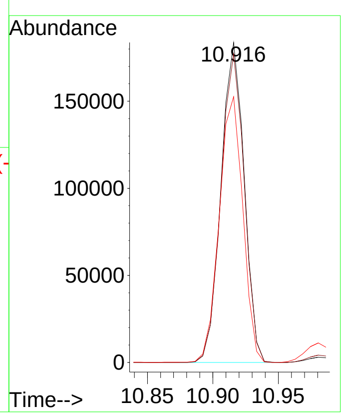




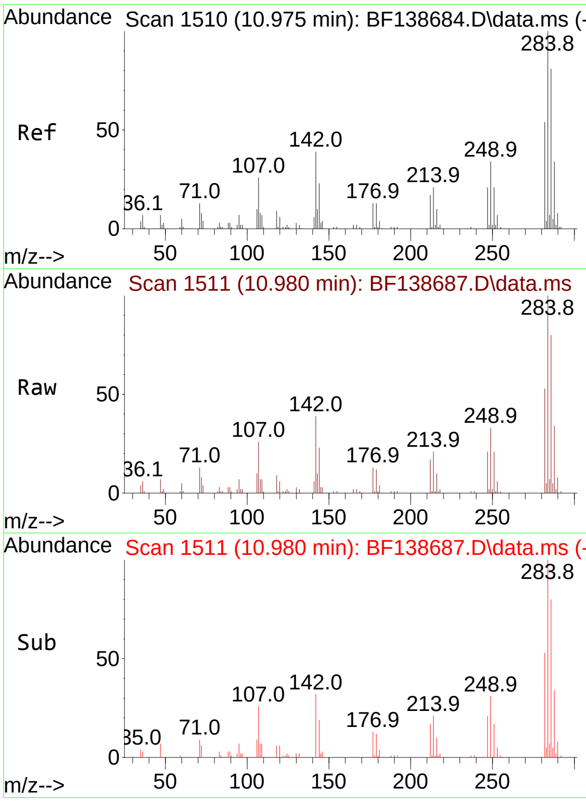
#67
4-Bromophenyl-phenylether
Concen: 77.318 ng
RT: 10.916 min Scan# 1500
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:248 Resp: 226137

Ion	Ratio	Lower	Upper
248	100		
250	96.4	77.7	116.5
141	83.0	68.0	102.0



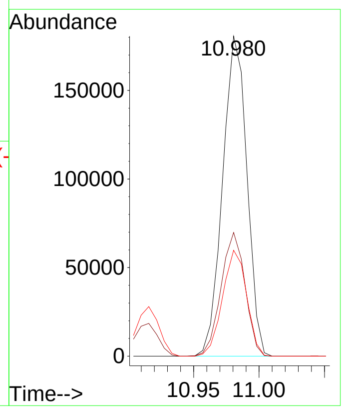
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

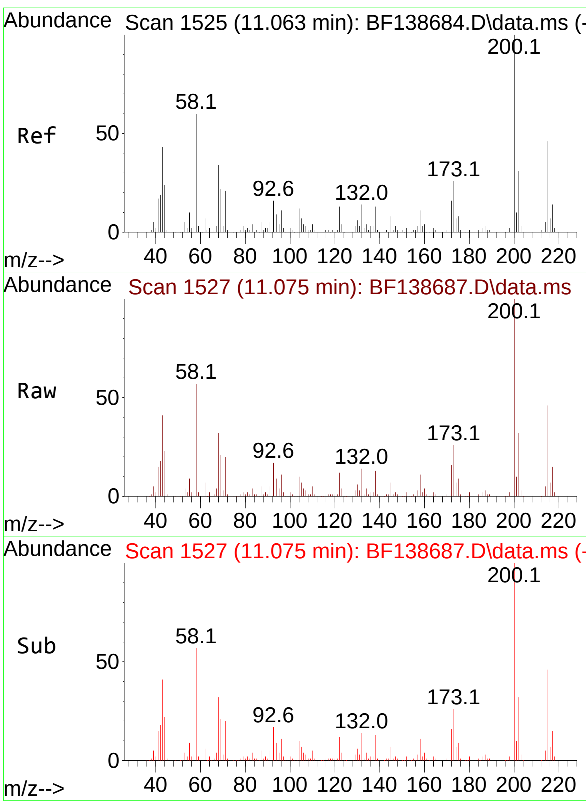


#68
Hexachlorobenzene
Concen: 77.158 ng
RT: 10.980 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:284 Resp: 233005

Ion	Ratio	Lower	Upper
284	100		
142	38.7	31.3	46.9
249	33.1	27.2	40.8

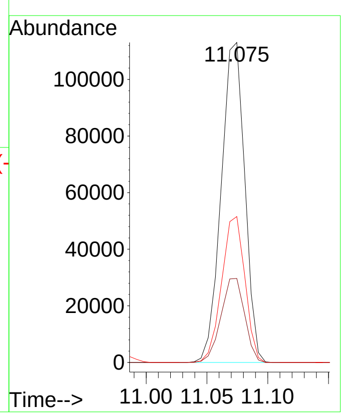




#69
Atrazine
Concen: 70.122 ng
RT: 11.075 min Scan# 1527
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

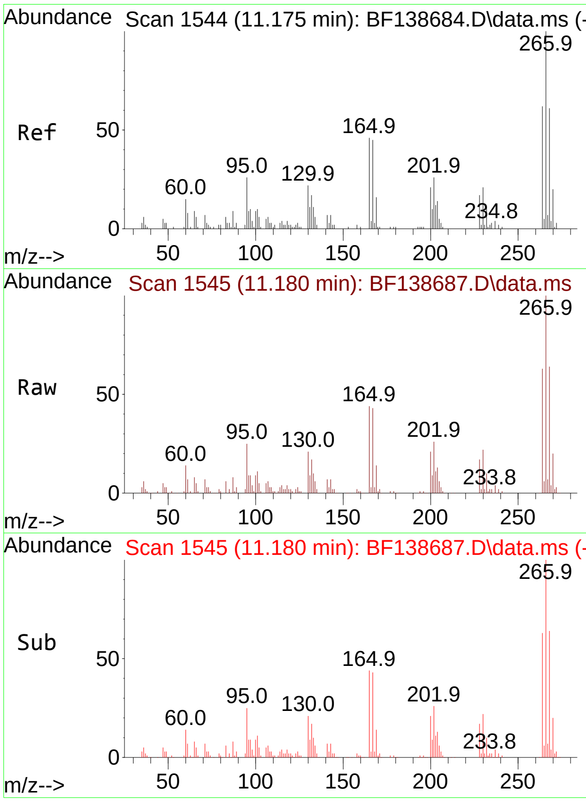
Tgt Ion:200 Resp: 152765

Ion	Ratio	Lower	Upper
200	100		
173	26.2	6.0	46.0
215	45.6	26.1	66.1



ICAL Form

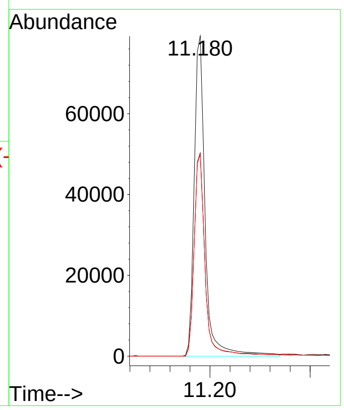
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

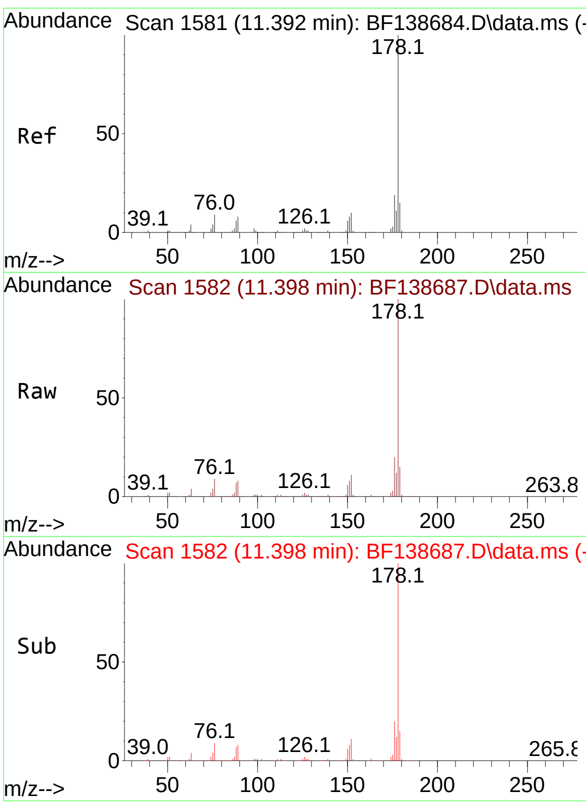


#70
Pentachlorophenol
Concen: 88.455 ng
RT: 11.180 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:266 Resp: 120403

Ion	Ratio	Lower	Upper
266	100		
268	63.5	49.2	73.8
264	63.0	49.8	74.6

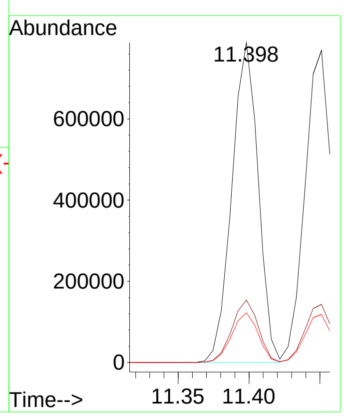




#71
Phenanthrene
Concen: 73.341 ng
RT: 11.398 min Scan# 1582
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

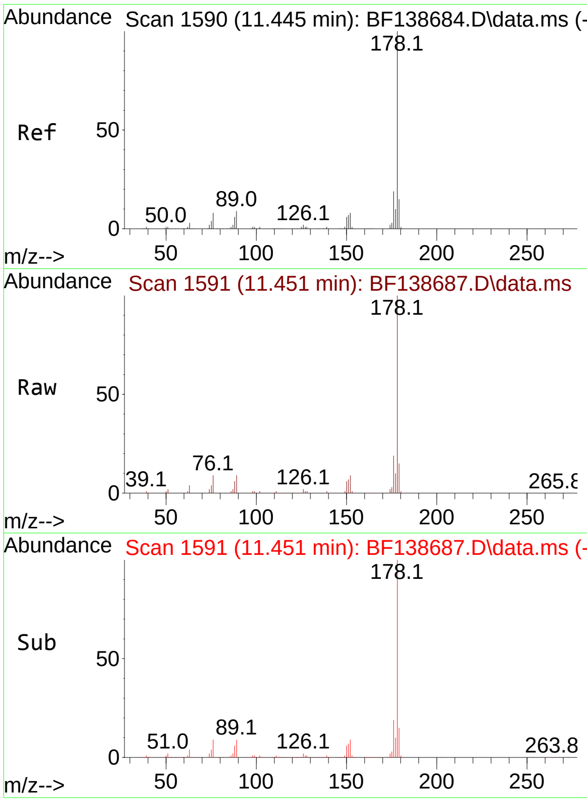
Tgt Ion:178 Resp: 1020185

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.0
179	15.5	12.2	18.2

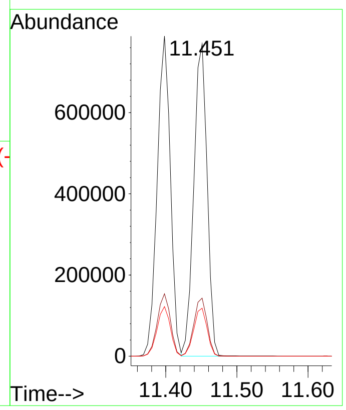


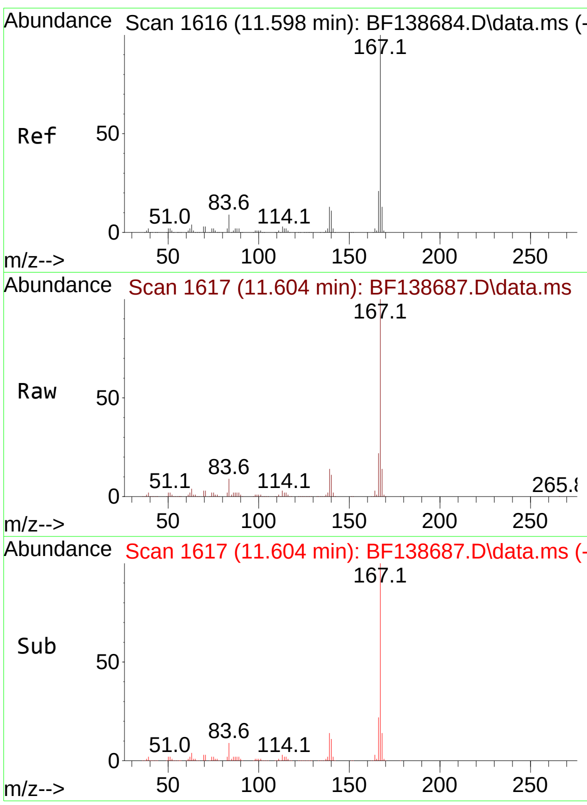
ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

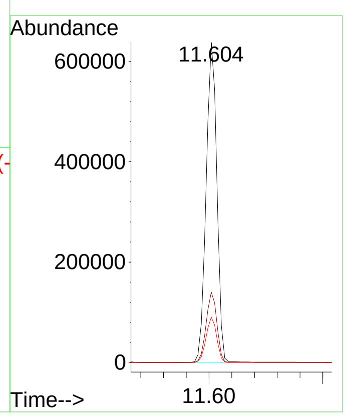



```
#72
Anthracene
Concen:    73.356 ng
RT:  11.451 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   BF138687.D
Acq: 30 Jul 2024  16:29

Tgt Ion:178 Resp: 1005219
Ion  Ratio  Lower  Upper
178  100
176   18.6   14.9   22.3
179   15.4   12.4   18.6
```



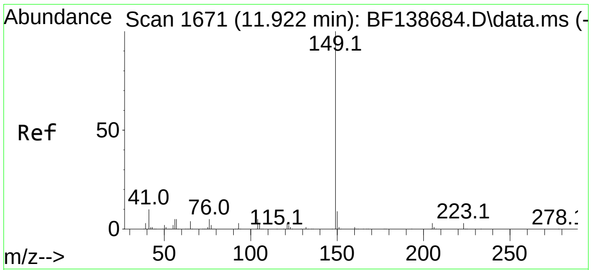


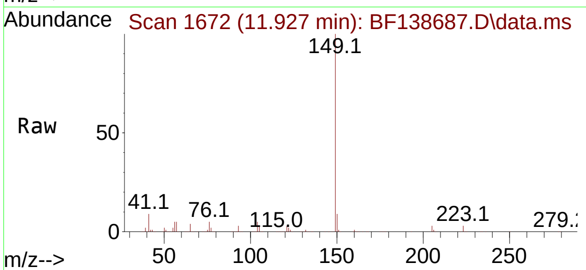

```
#73
Carbazole
Concen:    70.750 ng
RT:  11.604 min  Scan# 1617
Delta R.T.  0.006 min
Lab File:   BF138687.D
Acq: 30 Jul 2024  16:29

Tgt Ion:167 Resp:  836447
Ion  Ratio  Lower  Upper
167  100
166   22.0   17.2   25.8
139   14.1   10.6   16.0
```

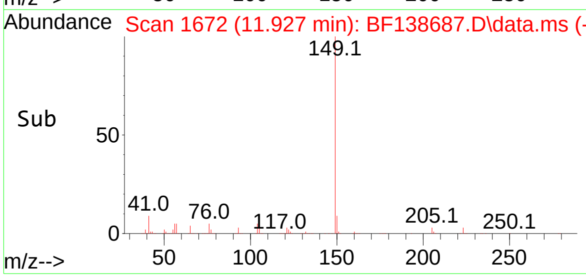


ICAL Form

Instrument :
BNA_F
ClientSampleId :
SSTDICC080



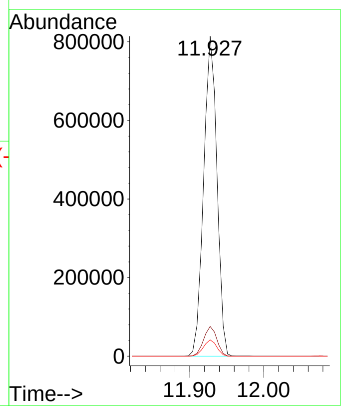


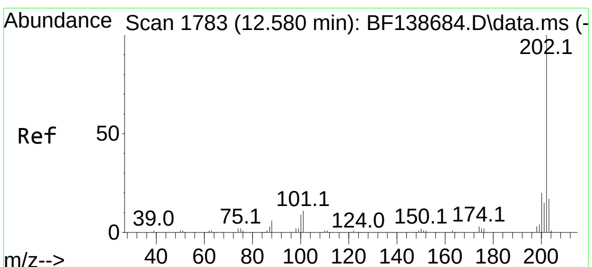


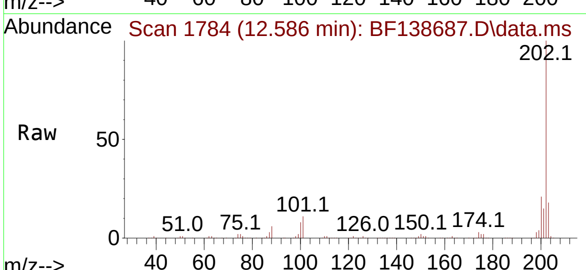
#74
Di-n-butylphthalate
Concen: 76.505 ng
RT: 11.927 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

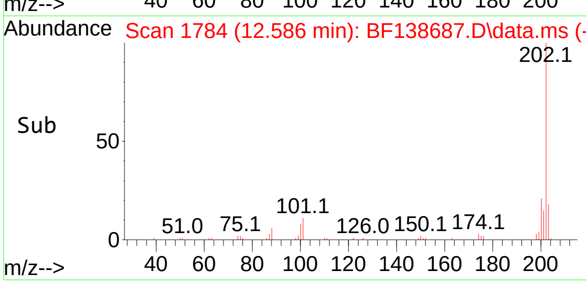
Tgt Ion:149 Resp: 1016790

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.1	4.1	6.1





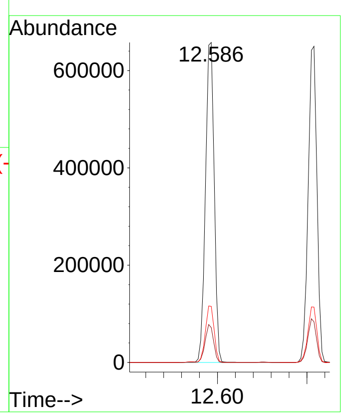




#75
Fluoranthene
Concen: 68.843 ng
RT: 12.586 min Scan# 1784
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

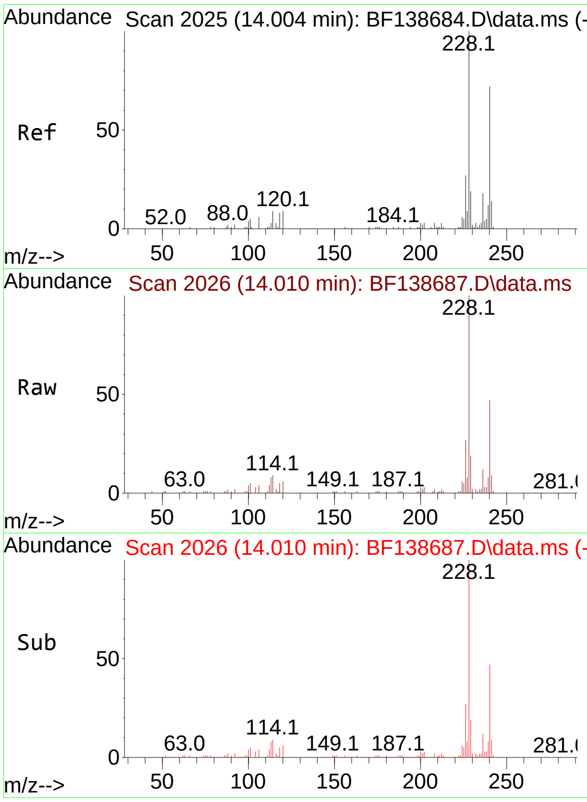
Tgt Ion:202 Resp: 893988

Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.2
203	17.6	0.0	37.3



ICAL Form

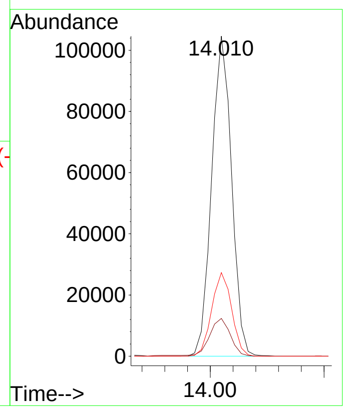
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

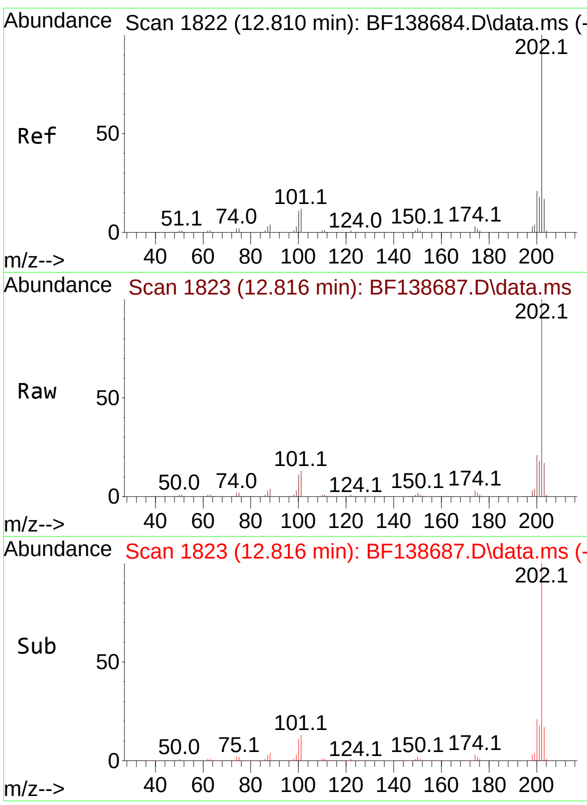


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2026
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:240 Resp: 127279

Ion	Ratio	Lower	Upper
240	100		
120	11.8	10.2	15.4
236	26.1	19.8	29.8

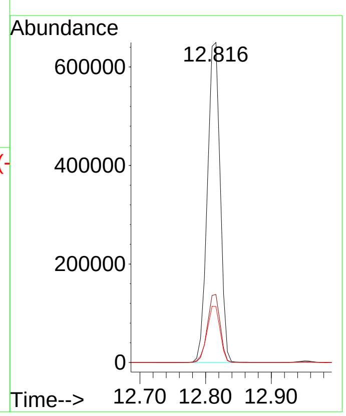




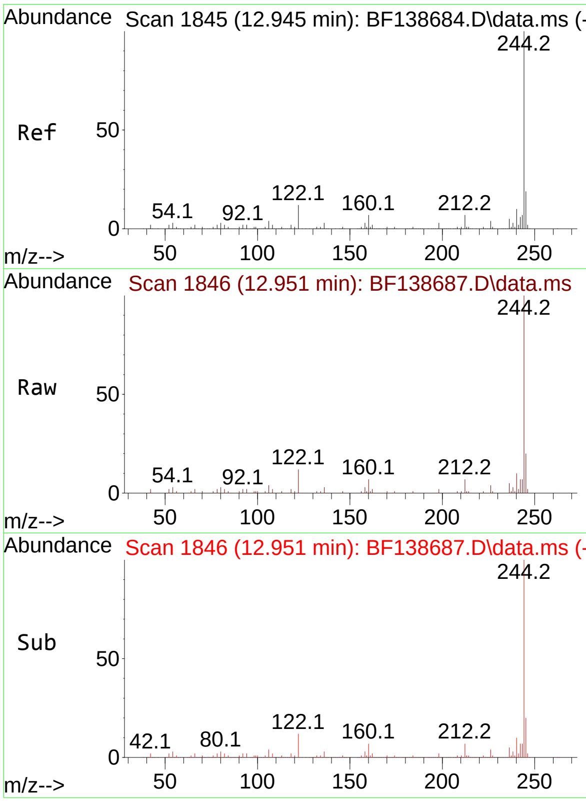
#78
Pyrene
Concen: 73.618 ng
RT: 12.816 min Scan# 1823
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:202 Resp: 882216

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.5	13.8	20.6



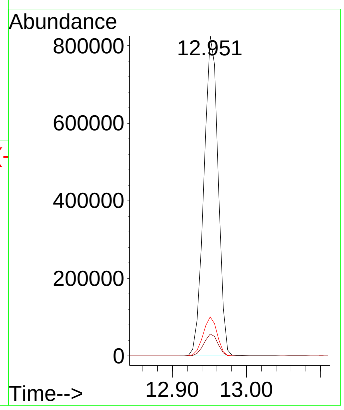
Instrument : BNA_F
ClientSampleId : SSTDICC080

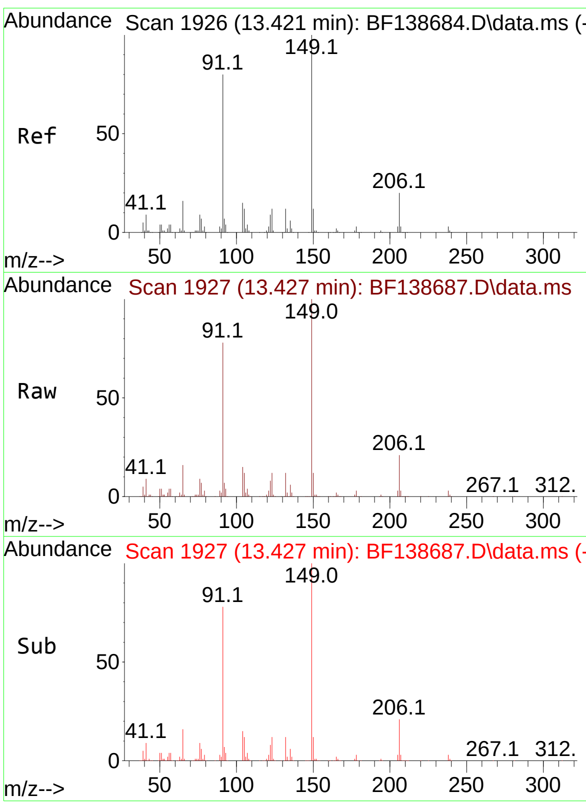


#79
Terphenyl-d14
Concen: 145.087 ng
RT: 12.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:244 Resp: 1102959

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.2
122	12.2	9.6	14.4

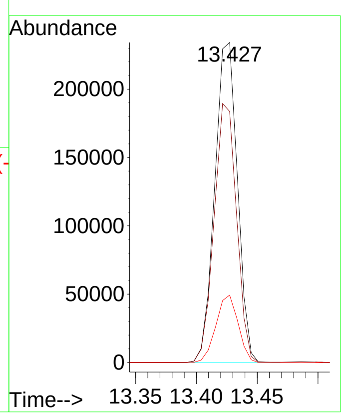




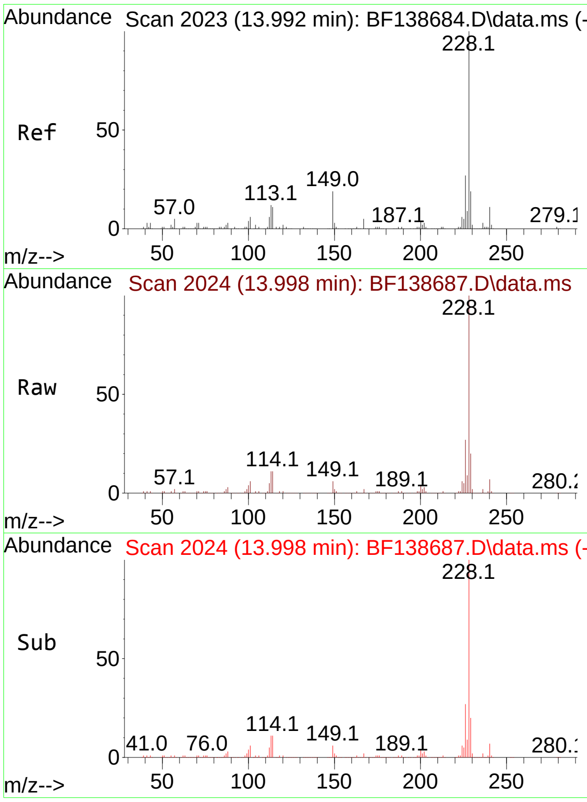
#80
Butylbenzylphthalate
Concen: 79.340 ng
RT: 13.427 min Scan# 1927
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:149 Resp: 304470

Ion	Ratio	Lower	Upper
149	100		
91	78.4	63.7	95.5
206	21.1	16.2	24.2



ICAL Form

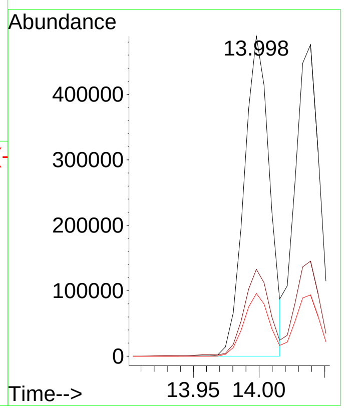


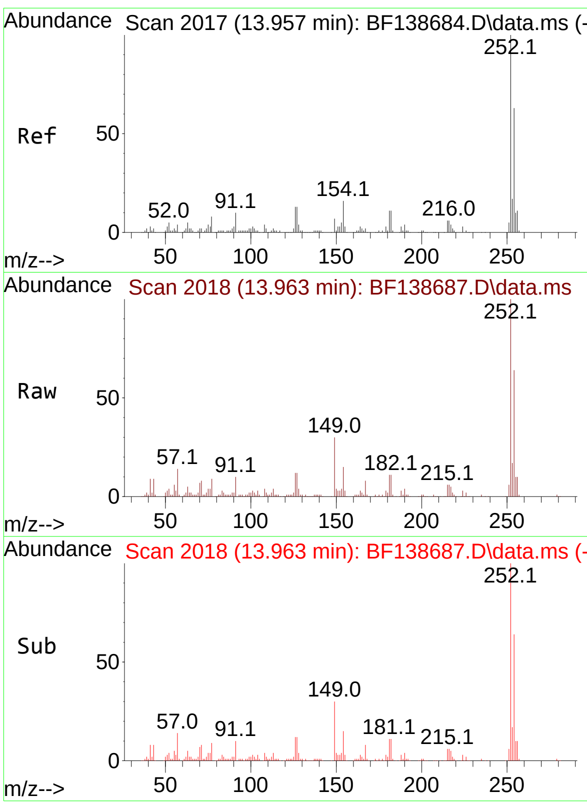
#81
Benzo(a)anthracene
Concen: 75.198 ng
RT: 13.998 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 659091

Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.1	33.1
229	19.6	15.4	23.0

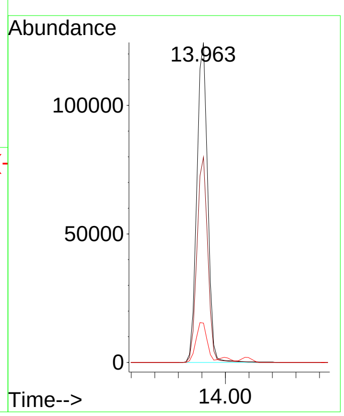




#82
3,3'-Dichlorobenzidine
Concen: 71.192 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

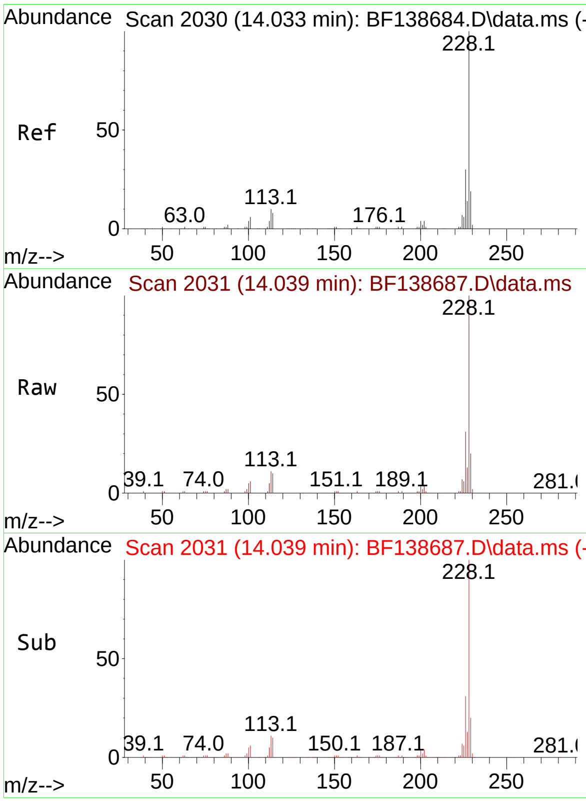
Tgt Ion:252 Resp: 159678

Ion	Ratio	Lower	Upper
252	100		
254	64.2	50.8	76.2
126	12.3	10.2	15.2



ICAL Form

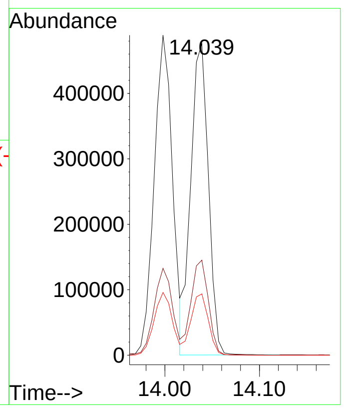
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

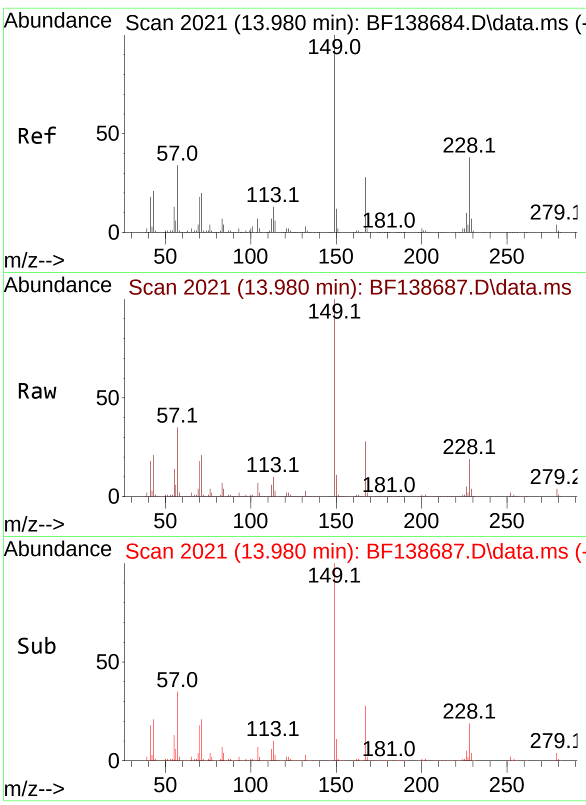


#83
Chrysene
Concen: 78.129 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:228 Resp: 617804

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.7	35.5
229	19.7	15.0	22.6

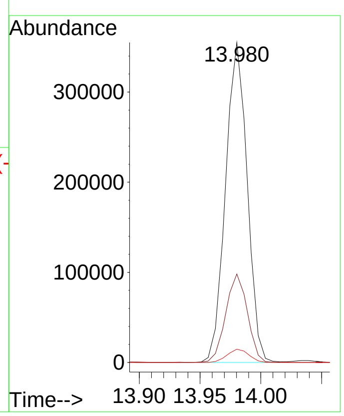




#84
Bis(2-ethylhexyl)phthalate
Concen: 78.423 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

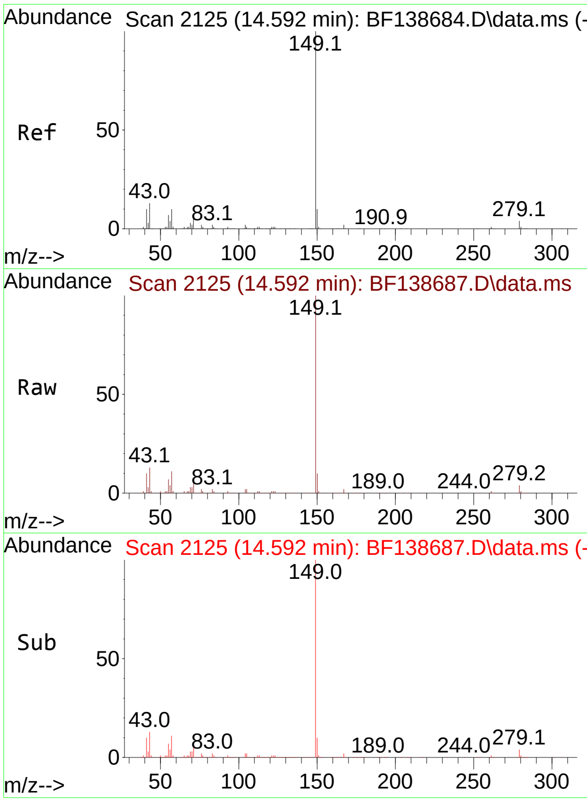
Tgt Ion:149 Resp: 440693

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	4.1	3.4	5.0



ICAL Form

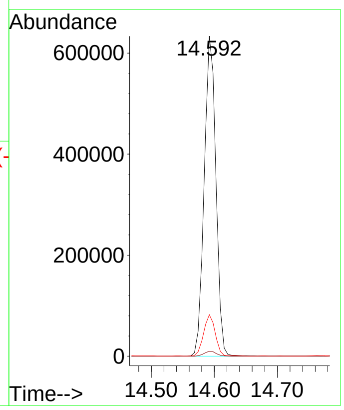
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

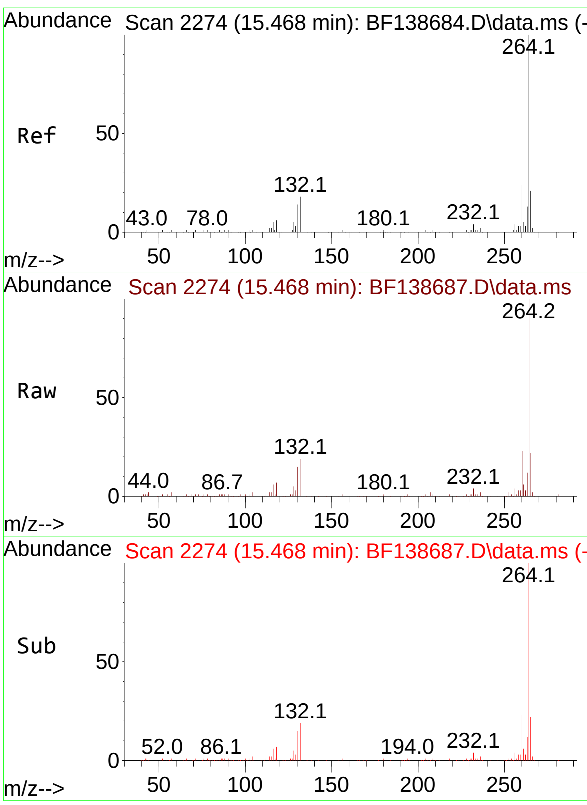


#85
Di-n-octyl phthalate
Concen: 78.597 ng
RT: 14.592 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:149 Resp: 817161

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.4	2.0
43	12.8	10.4	15.6

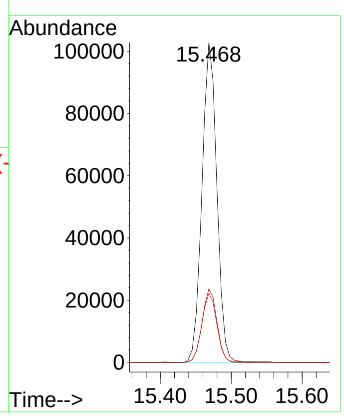




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

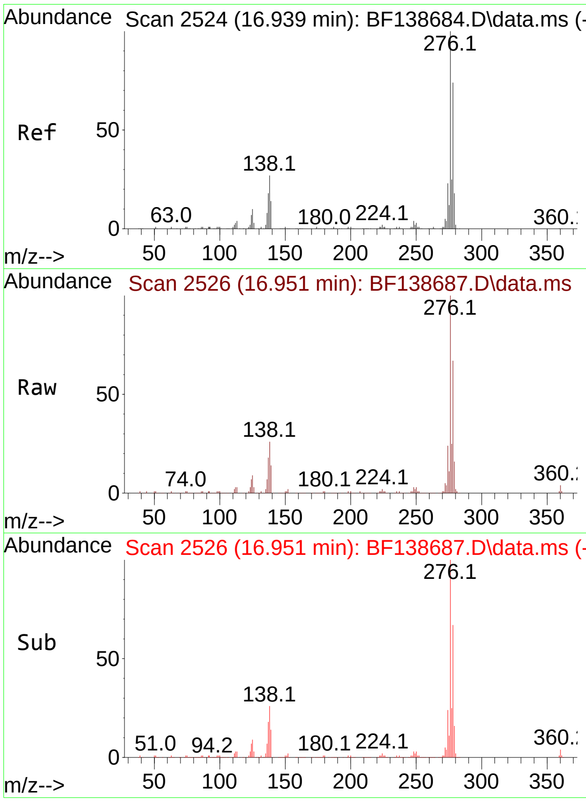
Tgt Ion:264 Resp: 150274

Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.0	28.6
265	21.7	17.0	25.6



ICAL Form

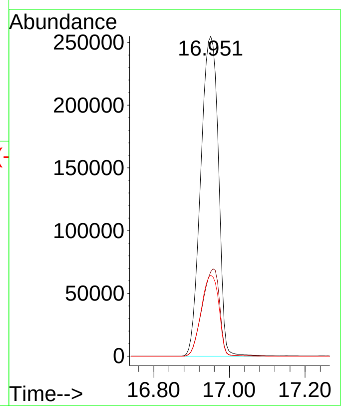
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

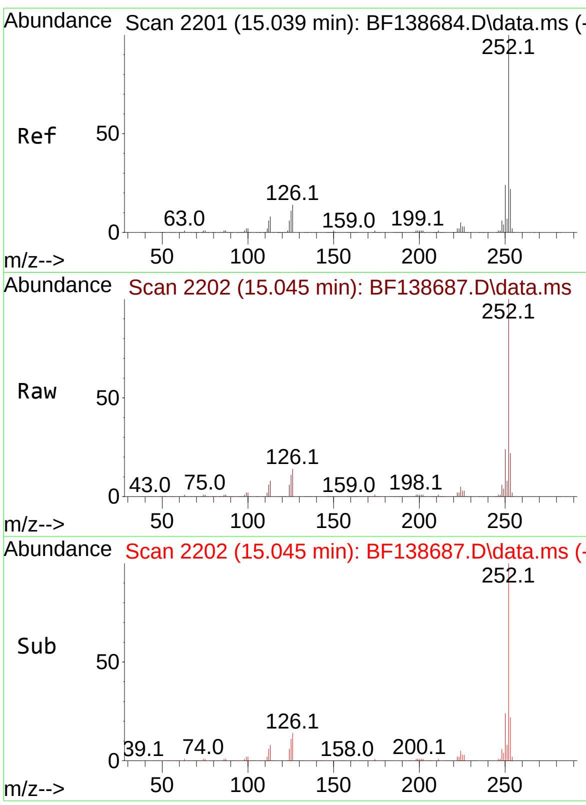


#87
Indeno(1,2,3-cd)pyrene
Concen: 76.833 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:276 Resp: 827423

Ion	Ratio	Lower	Upper
276	100		
138	26.8	21.8	32.8
277	25.3	20.6	30.8

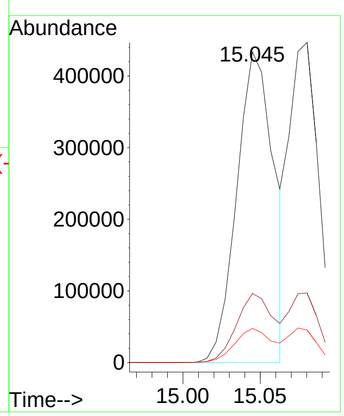




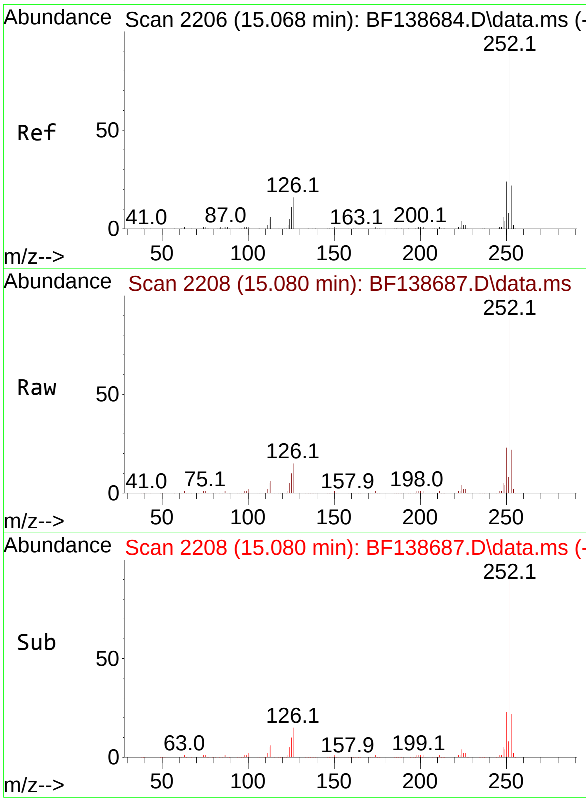
#88
Benzo(b)fluoranthene
Concen: 77.422 ng
RT: 15.045 min Scan# 2202
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:252 Resp: 721224

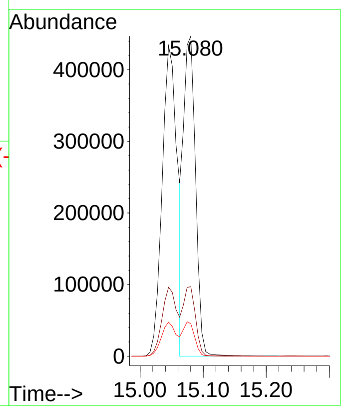
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	11.0	8.9	13.3

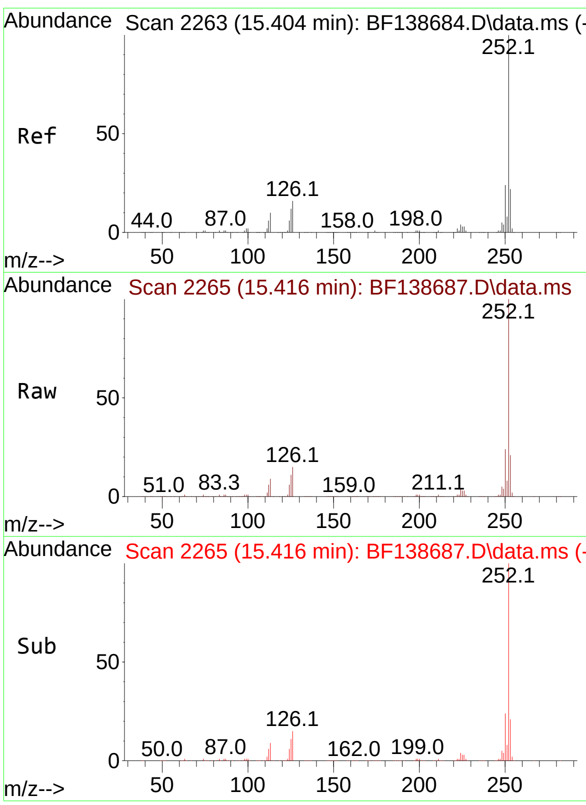


Instrument : BNA_F
ClientSampleId : SSTDICC080

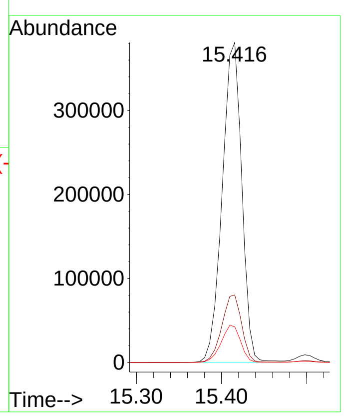



```
#89
Benzo(k)fluoranthene
Concen:   73.959 ng
RT:  15.080 min  Scan# 2
Delta R.T.  0.012 min
Lab File:   BF138687.D
Acq: 30 Jul 2024  16:29

Tgt Ion:252 Resp:  596517
Ion  Ratio  Lower  Upper
252  100
253   21.7   17.4   26.0
125   10.1    8.6   13.0
```

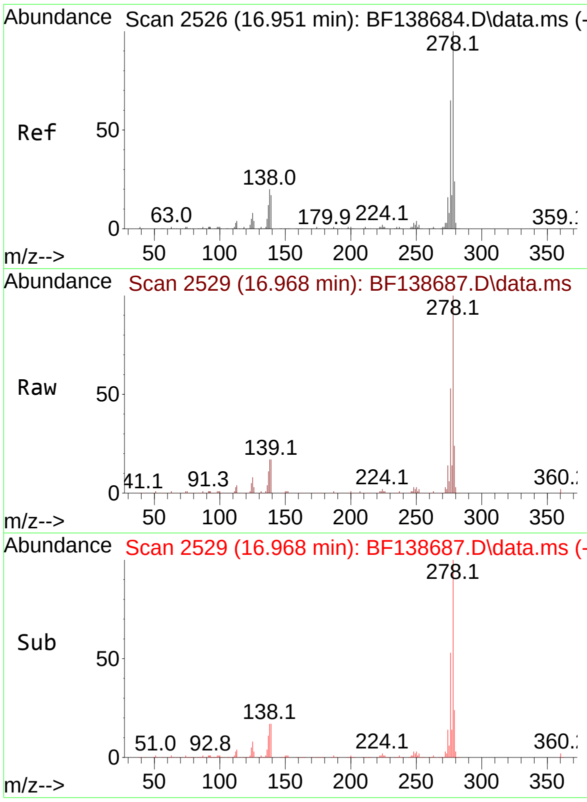





```
#90
Benzo(a)pyrene
Concen:   77.779 ng
RT:  15.416 min  Scan# 2265
Delta R.T.  0.012 min
Lab File:   BF138687.D
Acq: 30 Jul 2024  16:29

Tgt Ion:252 Resp:  609452
Ion  Ratio  Lower  Upper
252  100
253   21.1   17.3   25.9
125   11.2    9.5   14.3
```



ICAL Form

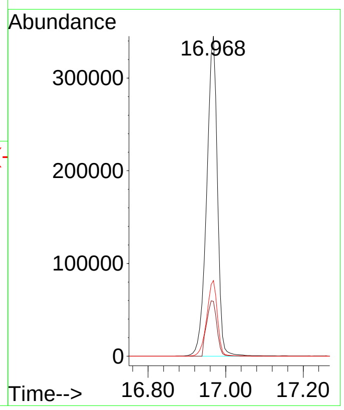


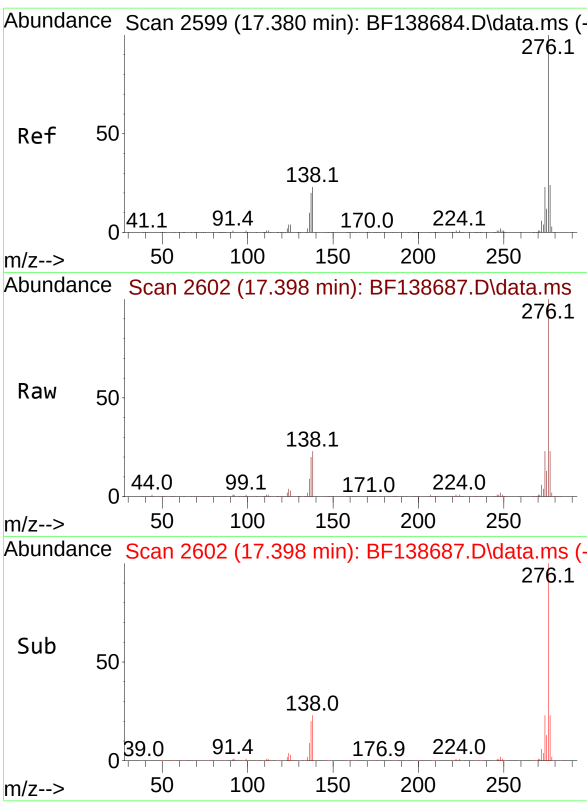
#91
Dibenzo(a,h)anthracene
Concen: 75.184 ng
RT: 16.968 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:278 Resp: 664634

Ion	Ratio	Lower	Upper
278	100		
139	17.1	14.0	21.0
279	23.7	19.0	28.4

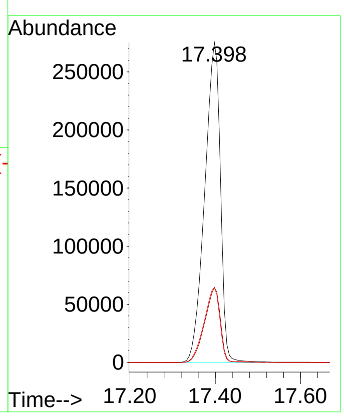




#92
Benzo(g,h,i)perylene
Concen: 76.589 ng
RT: 17.398 min Scan# 2602
Delta R.T. 0.018 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:276 Resp: 702583

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.0	28.4
138	23.5	18.5	27.7



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	81804	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	316107	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	164062	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	252048	20.000	ng	0.00
76) Chrysene-d12	14.004	240	134464	20.000	ng	0.00
86) Perylene-d12	15.468	264	171097	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	414257	78.171	ng	0.00
7) Phenol-d6	6.487	99	551968	77.578	ng	0.00
23) Nitrobenzene-d5	7.410	82	519984	80.424	ng	0.00
42) 2,4,6-Tribromophenol	10.675	330	104018	77.401	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	857165	78.500	ng	0.00
79) Terphenyl-d14	12.951	244	589459	73.396	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.581	88	92359	39.808	ng	99
3) Pyridine	3.340	79	227413	40.463	ng	97
4) n-Nitrosodimethylamine	3.299	42	131855	39.391	ng	100
6) Aniline	6.510	93	255062	40.197	ng	90
8) 2-Chlorophenol	6.634	128	216863	38.895	ng	98
9) Benzaldehyde	6.398	77	161636	37.898	ng	99
10) Phenol	6.498	94	286738	38.277	ng	97
11) bis(2-Chloroethyl)ether	6.587	93	221556	38.433	ng	100
12) 1,3-Dichlorobenzene	6.787	146	241485	38.692	ng	99
13) 1,4-Dichlorobenzene	6.863	146	243549	38.668	ng	98
14) 1,2-Dichlorobenzene	7.016	146	226577	38.492	ng	99
15) Benzyl Alcohol	6.992	79	200599	39.118	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.122	45	378258	38.127	ng	99
17) 2-Methylphenol	7.104	107	177941	38.649	ng	98
18) Hexachloroethane	7.357	117	93375	39.384	ng	99
19) n-Nitroso-di-n-propyla...	7.263	70	160901	37.442	ng	98
20) 3+4-Methylphenols	7.257	107	221138	37.436	ng	97
22) Acetophenone	7.257	105	302593	39.095	ng	99
24) Nitrobenzene	7.434	77	262386	39.882	ng	97
25) Isophorone	7.669	82	433596	39.275	ng	99
26) 2-Nitrophenol	7.745	139	115113	40.668	ng	99
27) 2,4-Dimethylphenol	7.787	122	136249	40.231	ng	99
28) bis(2-Chloroethoxy)met...	7.875	93	265943	39.557	ng	99
29) 2,4-Dichlorophenol	7.992	162	176541	40.567	ng	99
30) 1,2,4-Trichlorobenzene	8.069	180	199132	39.651	ng	99
31) Naphthalene	8.151	128	652780	39.232	ng	100
32) Benzoic acid	7.916	122	110429	41.481	ng	98
33) 4-Chloroaniline	8.204	127	223787	40.067	ng	99
34) Hexachlorobutadiene	8.263	225	124022	40.772	ng	99
35) Caprolactam	8.575	113	49818	38.365	ng	99
36) 4-Chloro-3-methylphenol	8.686	107	194782	39.164	ng	99
37) 2-Methylnaphthalene	8.839	142	408106	38.836	ng	100
38) 1-Methylnaphthalene	8.939	142	398155	38.666	ng	98
40) 1,2,4,5-Tetrachloroben...	9.004	216	184821	40.554	ng	99
41) Hexachlorocyclopentadiene	8.986	237	46660	42.278	ng	99
43) 2,4,6-Trichlorophenol	9.116	196	112217	40.384	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	124581	41.011 ng	99
46) 1,1'-Biphenyl	9.304	154	515966	40.156 ng	99
47) 2-Chloronaphthalene	9.328	162	381923	39.966 ng	99
48) 2-Nitroaniline	9.428	65	127985	39.505 ng	99
49) Acenaphthylene	9.745	152	535427	39.504 ng	99
50) Dimethylphthalate	9.604	163	403438	38.458 ng	99
51) 2,6-Dinitrotoluene	9.669	165	94451	39.895 ng	98
52) Acenaphthene	9.916	154	359484	39.456 ng	100
53) 3-Nitroaniline	9.839	138	93752	38.306 ng	99
54) 2,4-Dinitrophenol	9.951	184	42619	39.106 ng	97
55) Dibenzofuran	10.086	168	501545	38.997 ng	100
56) 4-Nitrophenol	10.004	139	57893	39.336 ng	98
57) 2,4-Dinitrotoluene	10.075	165	116813	38.673 ng	97
58) Fluorene	10.428	166	395954	38.661 ng	100
59) 2,3,4,6-Tetrachlorophenol	10.210	232	89831	38.680 ng	97
60) Diethylphthalate	10.298	149	382418	38.447 ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	196905	39.091 ng	99
62) 4-Nitroaniline	10.451	138	89602	38.525 ng	99
63) Azobenzene	10.580	77	426075	38.622 ng	99
65) 4,6-Dinitro-2-methylph...	10.480	198	63542	41.323 ng	97
66) n-Nitrosodiphenylamine	10.539	169	319562	40.561 ng	100
67) 4-Bromophenyl-phenylether	10.910	248	110219	40.390 ng	99
68) Hexachlorobenzene	10.975	284	113117	40.147 ng	99
69) Atrazine	11.063	200	80604	39.654 ng	98
70) Pentachlorophenol	11.175	266	51801	40.788 ng	96
71) Phenanthrene	11.392	178	506626	39.036 ng	100
72) Anthracene	11.445	178	496297	38.817 ng	99
73) Carbazole	11.598	167	425187	38.546 ng	100
74) Di-n-butylphthalate	11.927	149	496140	40.010 ng	100
75) Fluoranthene	12.580	202	463445	38.250 ng	100
77) Benzidine	12.704	184	132396	41.166 ng	98
78) Pyrene	12.810	202	467254	36.907 ng	100
80) Butylbenzylphthalate	13.421	149	171996	42.425 ng	99
81) Benzo(a)anthracene	13.992	228	379585	40.994 ng	99
82) 3,3'-Dichlorobenzidine	13.957	252	104638	44.160 ng	100
83) Chrysene	14.033	228	328373	39.308 ng	99
84) Bis(2-ethylhexyl)phtha...	13.980	149	266678	44.921 ng	99
85) Di-n-octyl phthalate	14.592	149	485296	44.183 ng	100
87) Indeno(1,2,3-cd)pyrene	16.939	276	483878	39.463 ng	99
88) Benzo(b)fluoranthene	15.039	252	404868	38.172 ng	99
89) Benzo(k)fluoranthene	15.074	252	352910	38.430 ng	99
90) Benzo(a)pyrene	15.410	252	356148	39.920 ng	98
91) Dibenzo(a,h)anthracene	16.951	278	393430	39.089 ng	99
92) Benzo(g,h,i)perylene	17.386	276	412115	39.457 ng	98

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

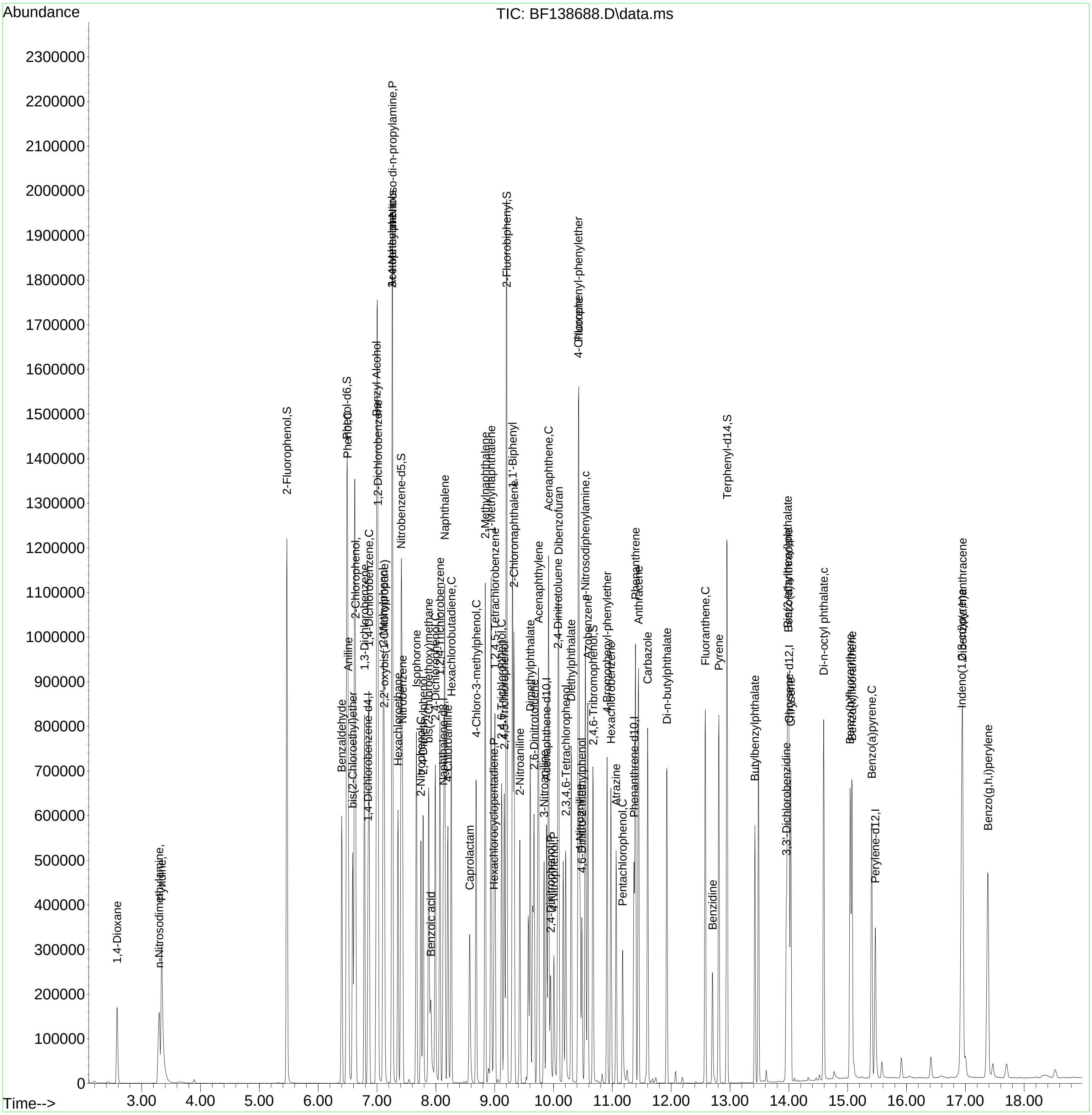
Quantitation Report   (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On   : 30 Jul 2024 17:55
Operator : RC/JU
Sample   : SSTDICV040
Misc   :
ALS Vial : 11   Sample Multiplier: 1

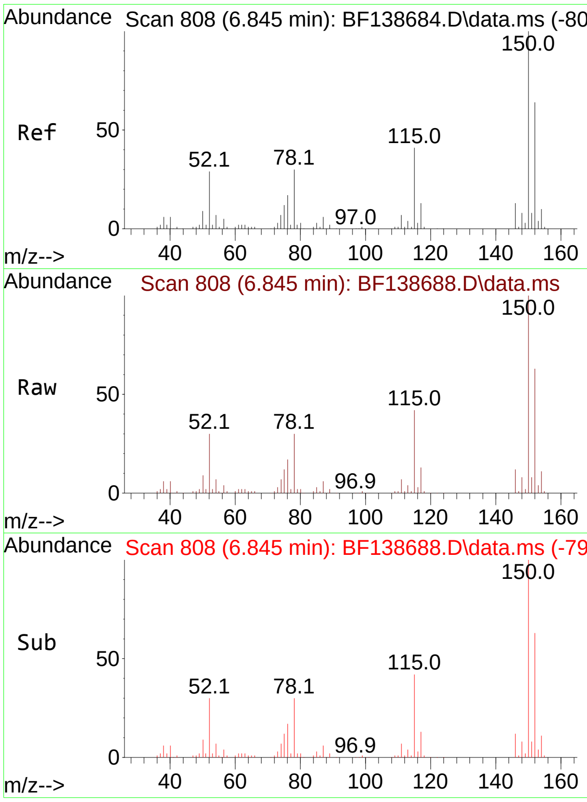
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

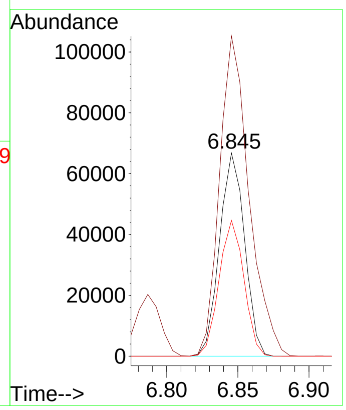


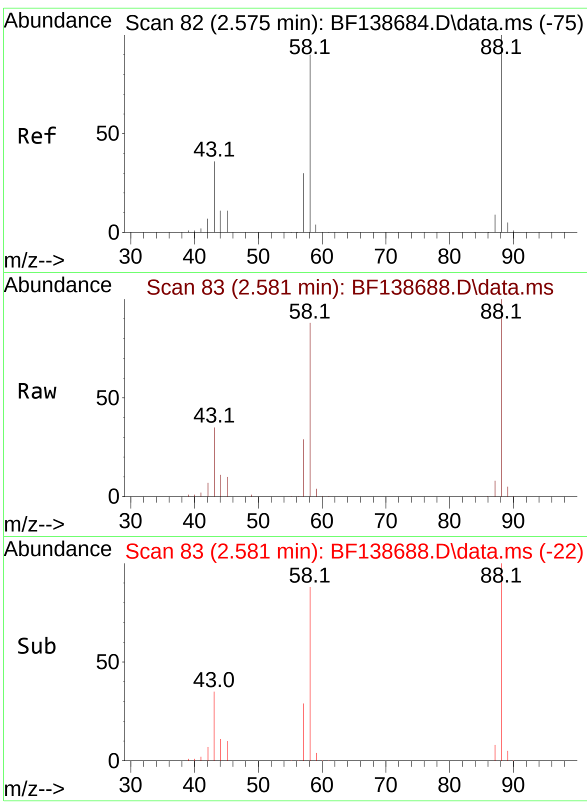
Instrument : BNA_F

ClientSampleId : ICVBF073024

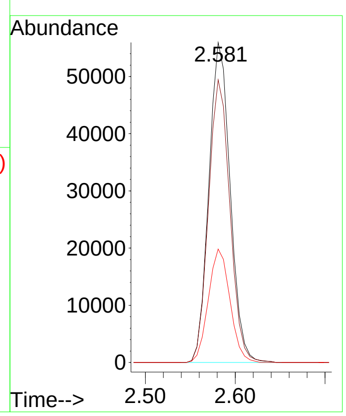



```
#1
1,4-Dichlorobenzene-d4
Concen:   20.000 ng
RT:   6.845 min  Scan# 8
Delta R.T.  0.000 min
Lab File:   BF138688.D
Acq: 30 Jul 2024  17:55

Tgt Ion:152 Resp:   81804
Ion  Ratio  Lower  Upper
152  100
150  157.6  126.0  189.0
115   66.8   51.7   77.5
```

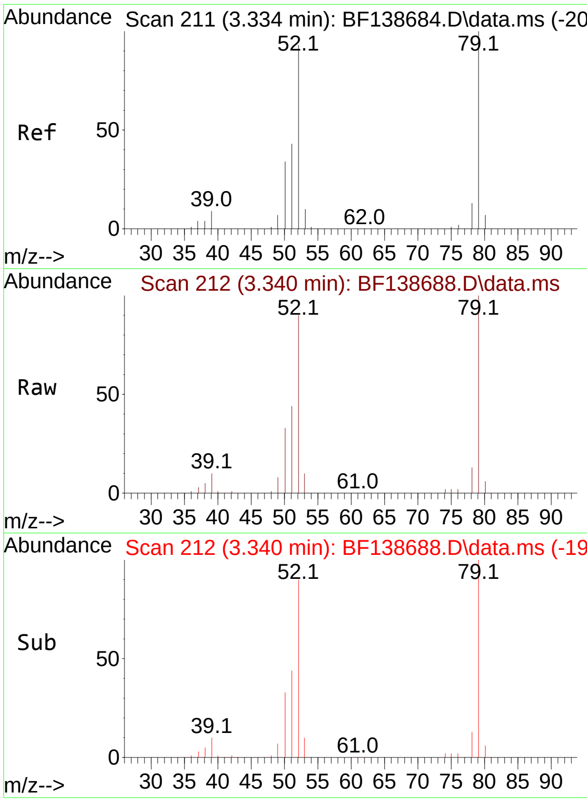




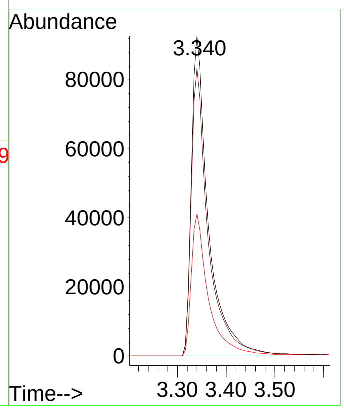

```
#2
1,4-Dioxane
Concen:   39.808 ng
RT:   2.581 min  Scan# 83
Delta R.T.  0.006 min
Lab File:   BF138688.D
Acq: 30 Jul 2024  17:55

Tgt Ion: 88 Resp:   92359
Ion  Ratio  Lower  Upper
 88  100
 58   88.5   71.6  107.4
 43   35.9   28.7   43.1
```

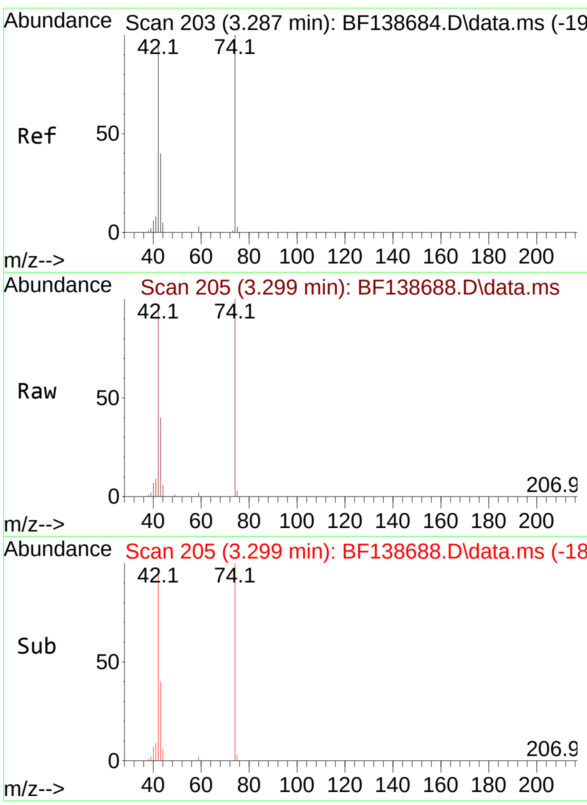


Instrument :
BNA_F
ClientSampleId :
ICVBF073024

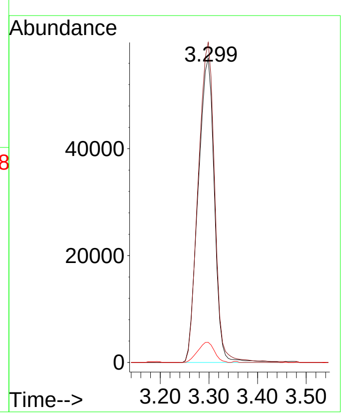



```
#3
Pyridine
Concen:   40.463 ng
RT:   3.340 min  Scan# 2
Delta R.T.  0.006 min
Lab File:   BF138688.D
Acq: 30 Jul 2024  17:55

Tgt Ion: 79 Resp:  227413
Ion  Ratio  Lower  Upper
 79  100
 52   89.9   74.7  112.1
 51   44.3   34.6   51.8
```

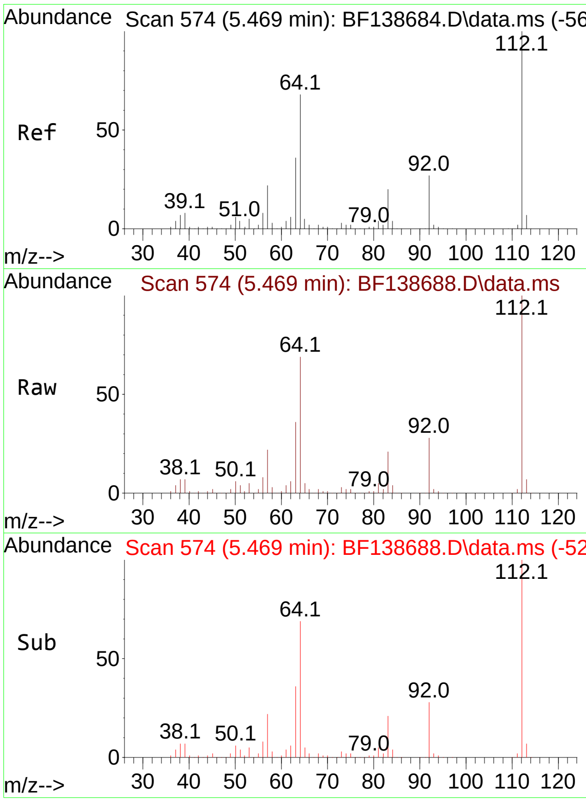




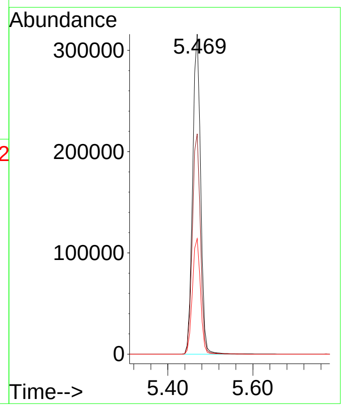

```
#4
n-Nitrosodimethylamine
Concen:   39.391 ng
RT:   3.299 min  Scan# 205
Delta R.T.  0.012 min
Lab File:   BF138688.D
Acq: 30 Jul 2024  17:55

Tgt Ion: 42 Resp:  131855
Ion  Ratio  Lower  Upper
 42  100
 74  105.1   84.2  126.4
 44    6.6    4.9    7.3
```

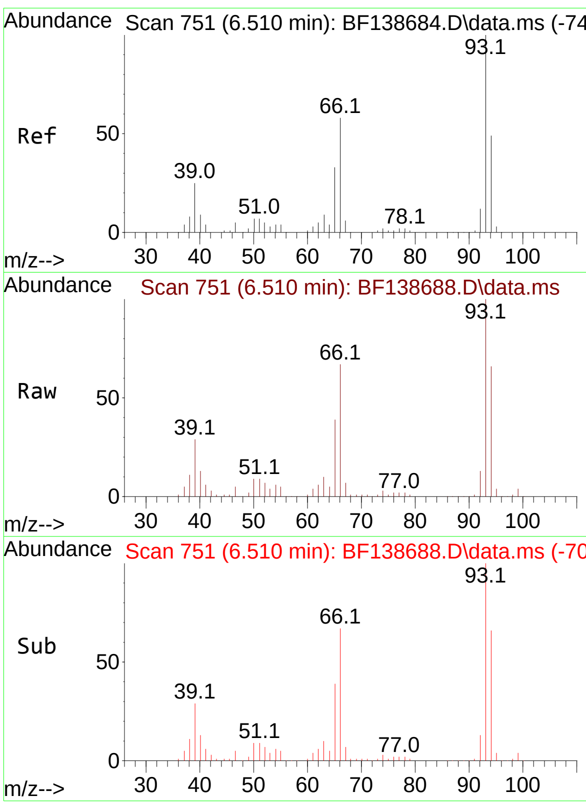


Instrument :
BNA_F
ClientSampleId :
ICVBF073024

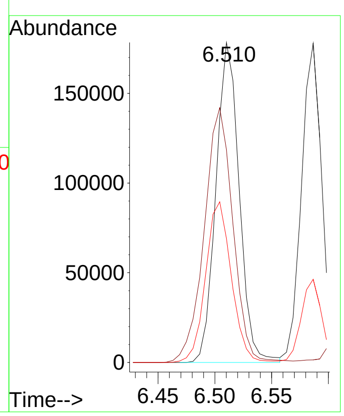



```
#5
2-Fluorophenol
Concen:   78.171 ng
RT:   5.469 min  Scan# 5
Delta R.T.  0.000 min
Lab File:   BF138688.D
Acq: 30 Jul 2024  17:55

Tgt Ion:112 Resp:  414257
Ion  Ratio  Lower  Upper
112  100
 64   68.9   54.2   81.4
 63   36.1   28.7   43.1
```

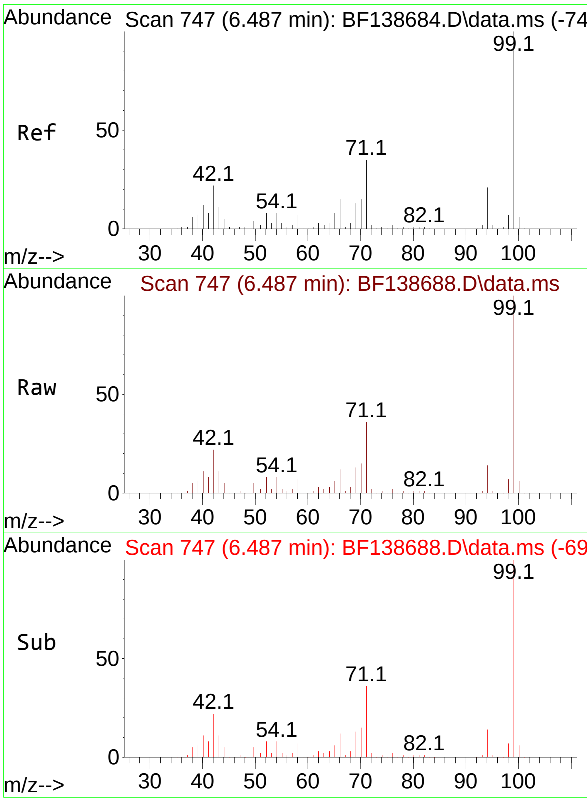





```
#6
Aniline
Concen:   40.197 ng
RT:   6.510 min  Scan# 751
Delta R.T.  0.000 min
Lab File:   BF138688.D
Acq: 30 Jul 2024  17:55

Tgt Ion: 93 Resp:  255062
Ion  Ratio  Lower  Upper
 93  100
 66   66.5   46.9   70.3
 65   38.7   26.5   39.7
```



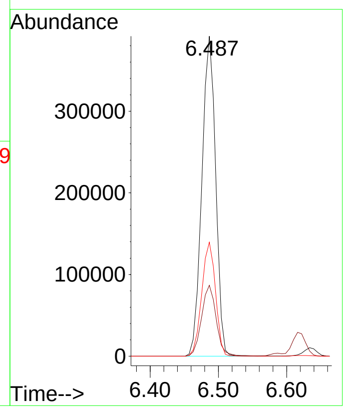
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

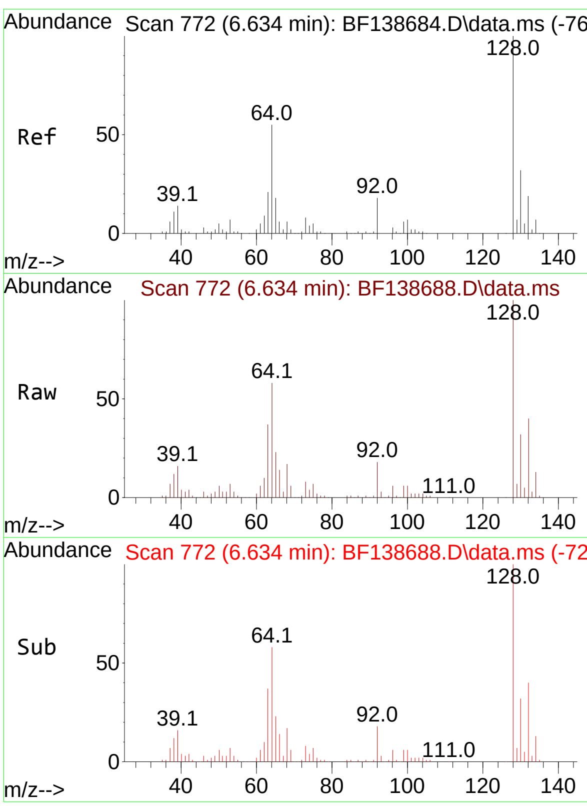


#7
Phenol-d6
Concen: 77.578 ng
RT: 6.487 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 99 Resp: 551968

Ion	Ratio	Lower	Upper
99	100		
42	22.2	17.4	26.0
71	35.6	28.1	42.1

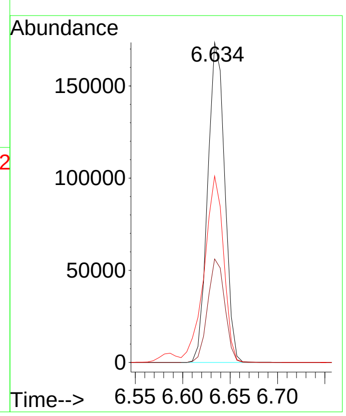




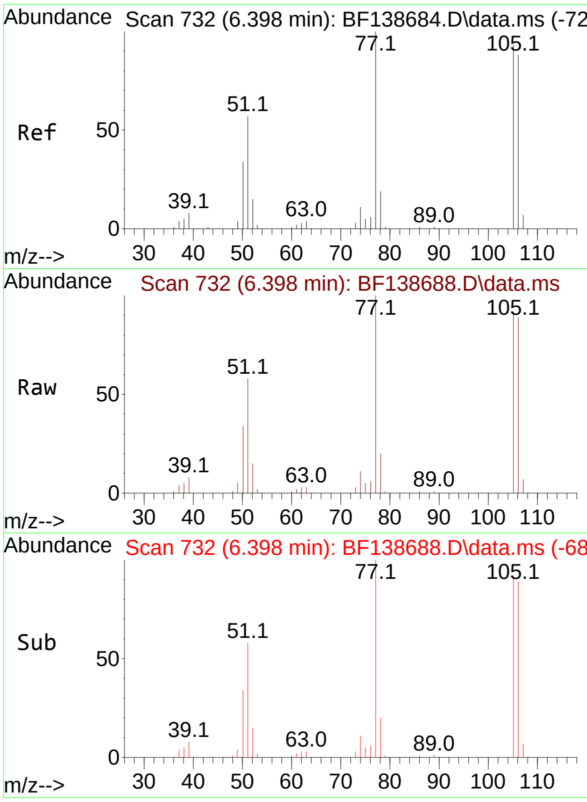
#8
2-Chlorophenol
Concen: 38.895 ng
RT: 6.634 min Scan# 772
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:128 Resp: 216863

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.0	52.0
64	58.3	36.3	76.3



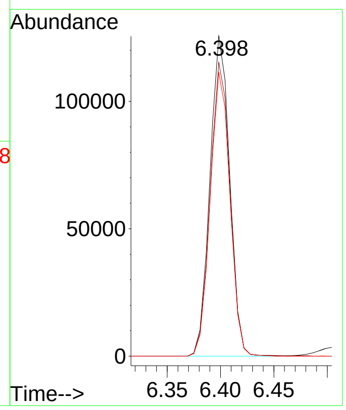
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

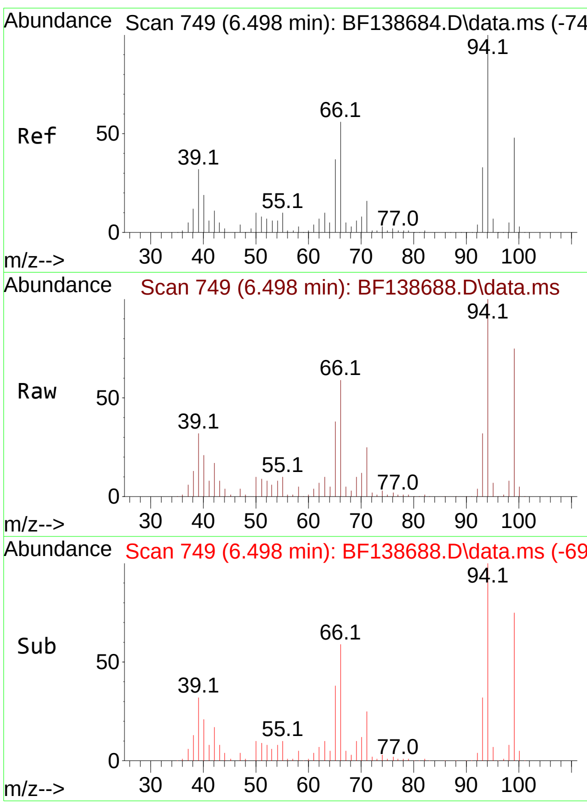


#9
Benzaldehyde
Concen: 37.898 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 77 Resp: 161636

Ion	Ratio	Lower	Upper
77	100		
105	91.7	72.9	112.9
106	88.6	68.4	108.4

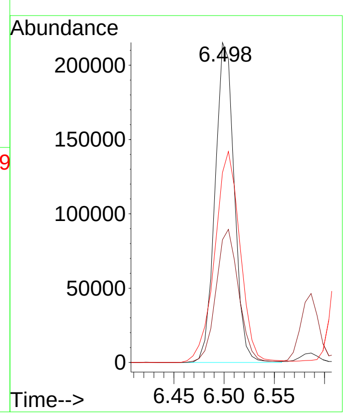




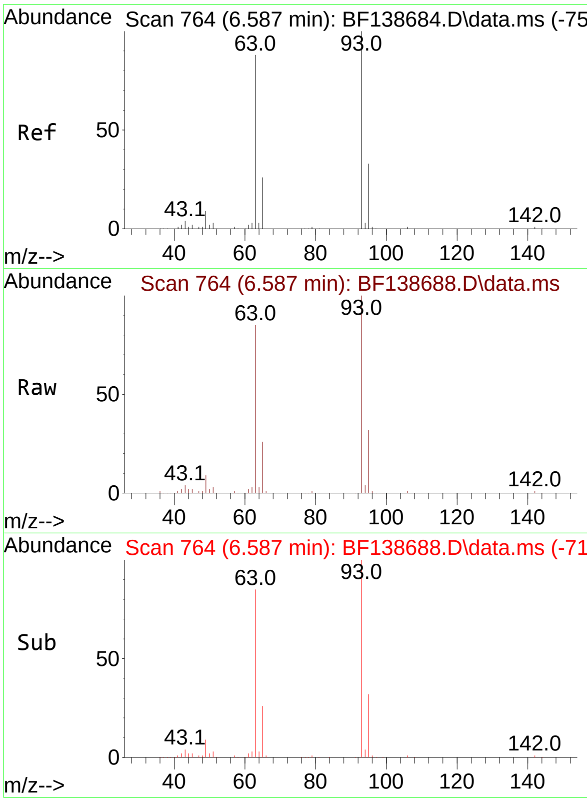
#10
Phenol
Concen: 38.277 ng
RT: 6.498 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 94 Resp: 286738

Ion	Ratio	Lower	Upper
94	100		
65	38.4	16.9	56.9
66	59.3	36.5	76.5



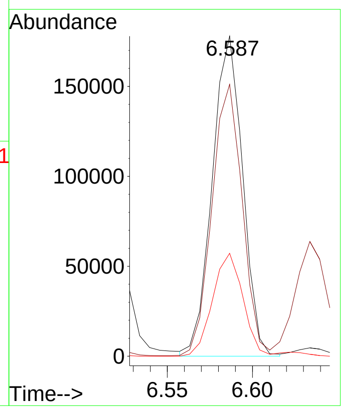
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

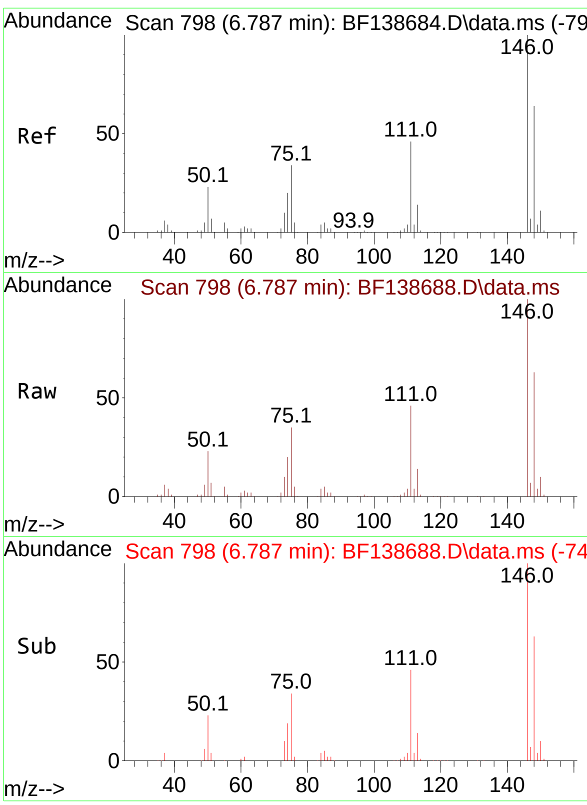


#11
bis(2-Chloroethyl)ether
Concen: 38.433 ng
RT: 6.587 min   Scan# 7
Delta R.T.   0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

Tgt Ion: 93 Resp: 221556

Ion	Ratio	Lower	Upper
93	100		
63	85.0	65.3	105.3
95	32.2	12.4	52.4

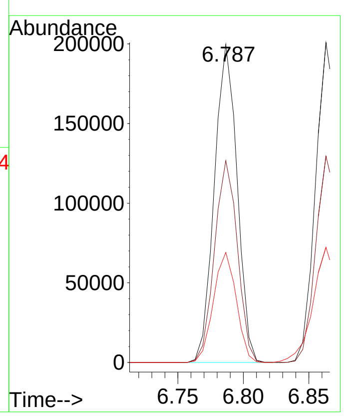




#12
1,3-Dichlorobenzene
Concen: 38.692 ng
RT: 6.787 min   Scan# 798
Delta R.T.   0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

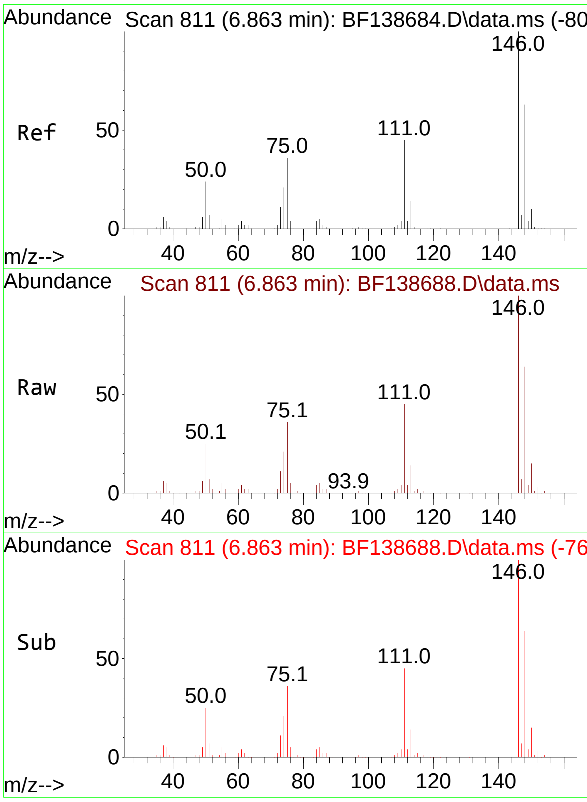
Tgt Ion:146 Resp: 241485

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.2	76.8
75	34.6	27.4	41.2



ICAL Form

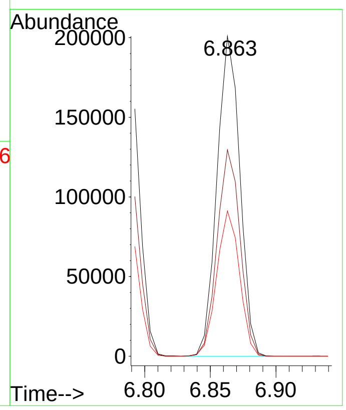
Instrument : BNA_F
ClientSampleId : ICVBF073024

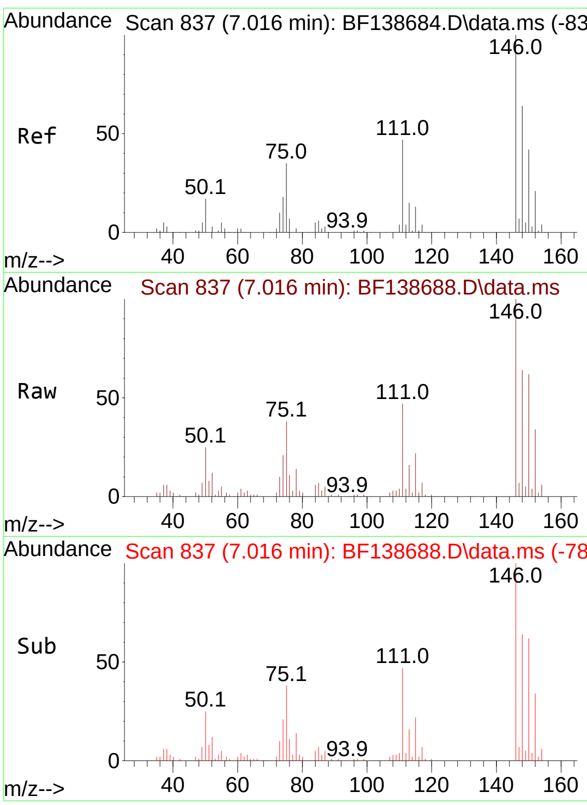


#13
1,4-Dichlorobenzene
Concen: 38.668 ng
RT: 6.863 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:146 Resp: 243549

Ion	Ratio	Lower	Upper
146	100		
148	64.5	50.2	75.2
111	45.4	35.9	53.9

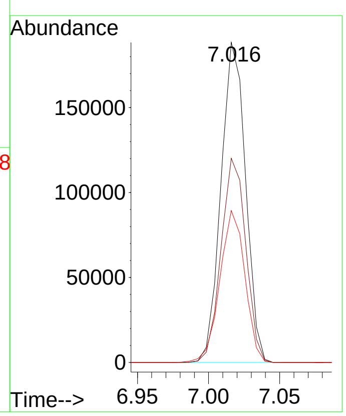




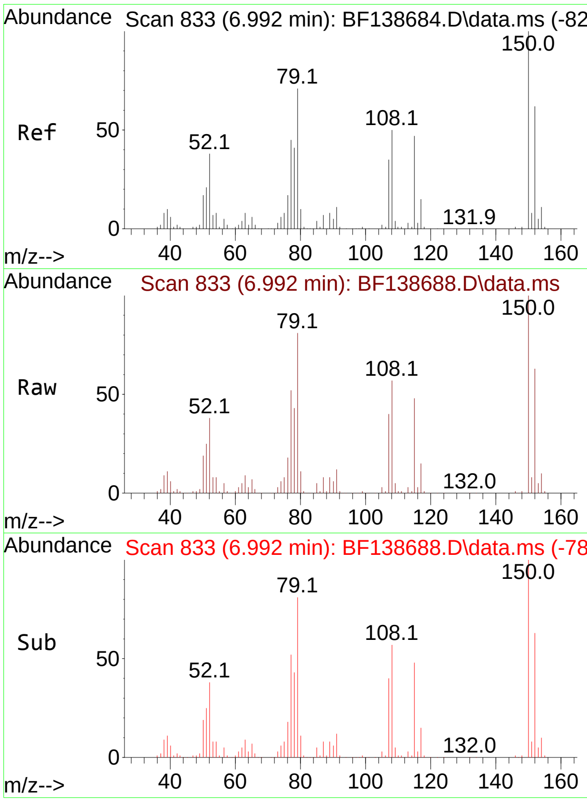
#14
1,2-Dichlorobenzene
Concen: 38.492 ng
RT: 7.016 min Scan# 837
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:146 Resp: 226577

Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.8	76.2
111	47.4	37.4	56.2



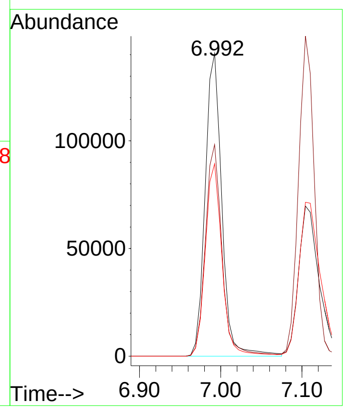
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

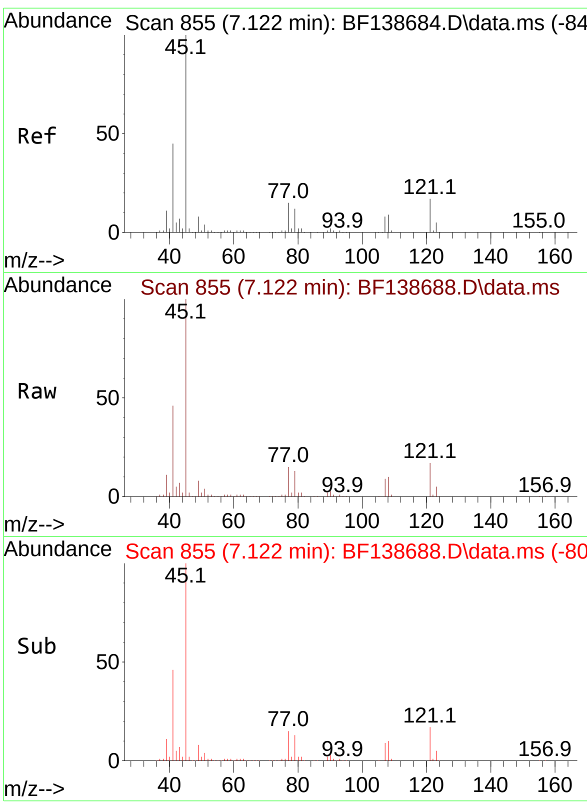


#15
Benzyl Alcohol
Concen: 39.118 ng
RT: 6.992 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 79 Resp: 200599

Ion	Ratio	Lower	Upper
79	100		
108	69.9	56.6	85.0
77	63.6	50.3	75.5

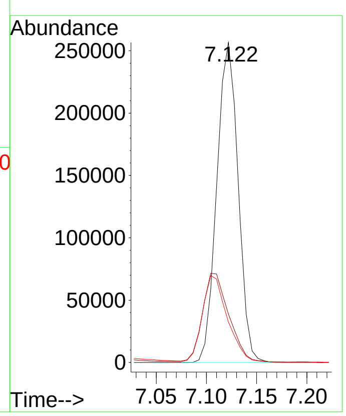




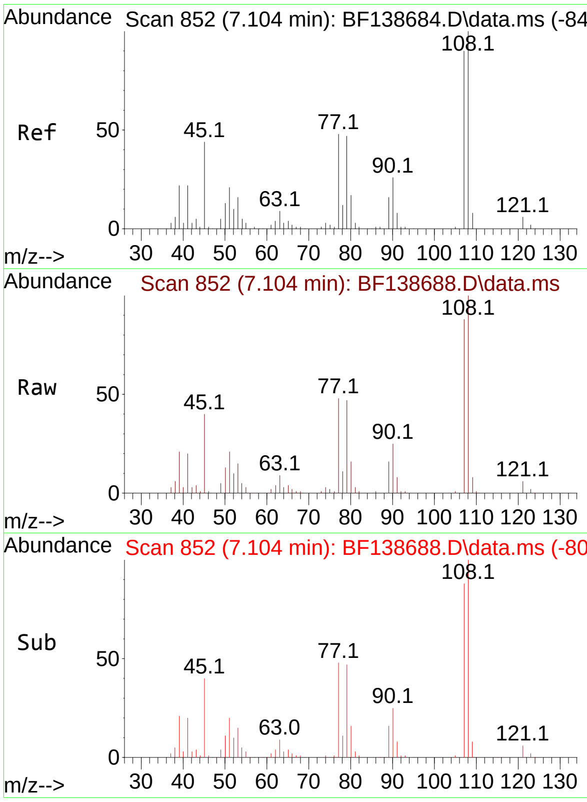
#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.127 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 45 Resp: 378258

Ion	Ratio	Lower	Upper
45	100		
77	15.2	0.0	34.9
79	12.7	0.0	32.2



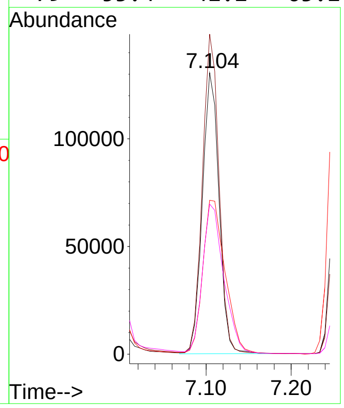
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

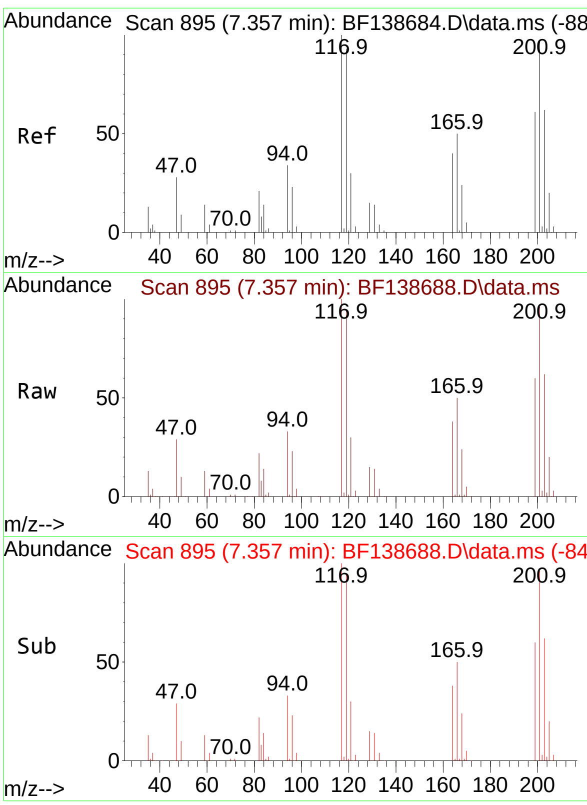


#17
2-Methylphenol
Concen: 38.649 ng
RT: 7.104 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:107 Resp: 177941

Ion	Ratio	Lower	Upper
107	100		
108	113.7	89.2	133.8
77	54.7	43.0	64.4
79	53.4	42.2	63.2

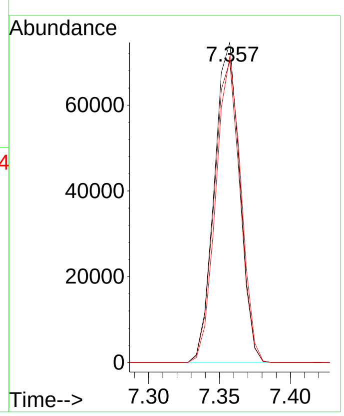




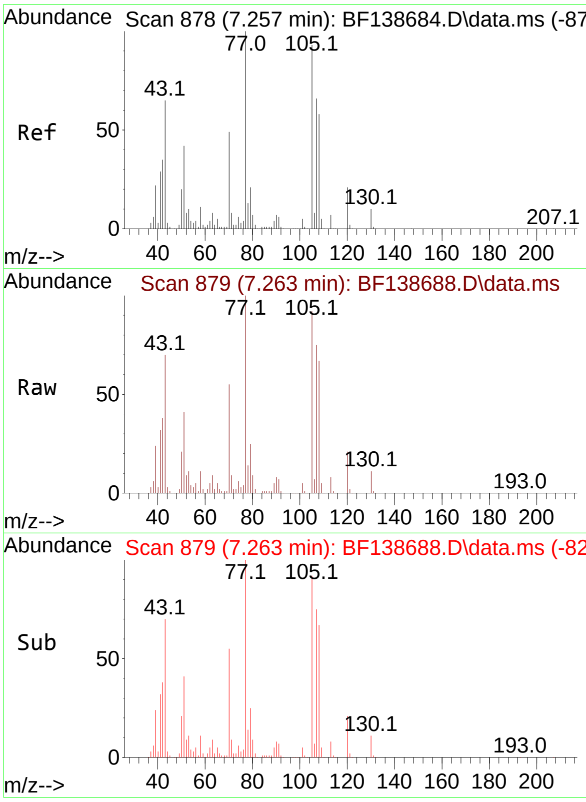
#18
Hexachloroethane
Concen: 39.384 ng
RT: 7.357 min Scan# 895
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:117 Resp: 93375

Ion	Ratio	Lower	Upper
117	100		
119	94.1	74.6	111.8
201	95.7	77.2	115.8



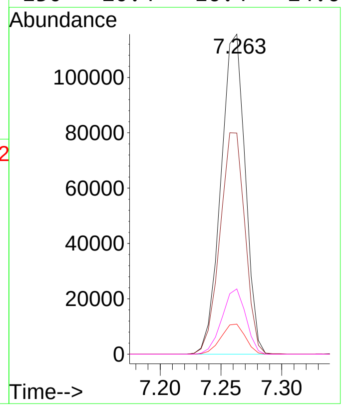
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

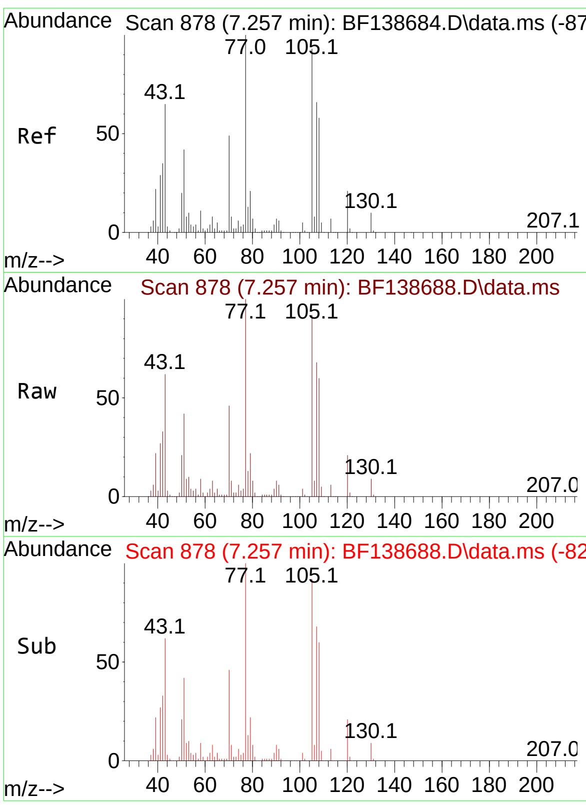


#19
n-Nitroso-di-n-propylamine
Concen: 37.442 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 70 Resp: 160901

Ion	Ratio	Lower	Upper
70	100		
42	69.1	57.4	86.0
101	9.4	7.5	11.3
130	20.4	16.4	24.6

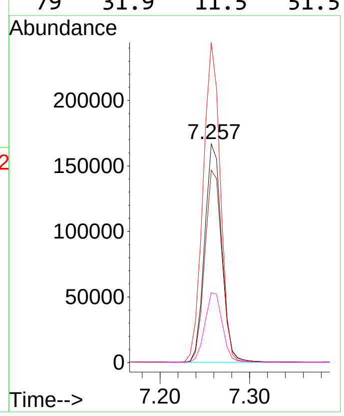




#20
3+4-Methylphenols
Concen: 37.436 ng
RT: 7.257 min Scan# 878
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

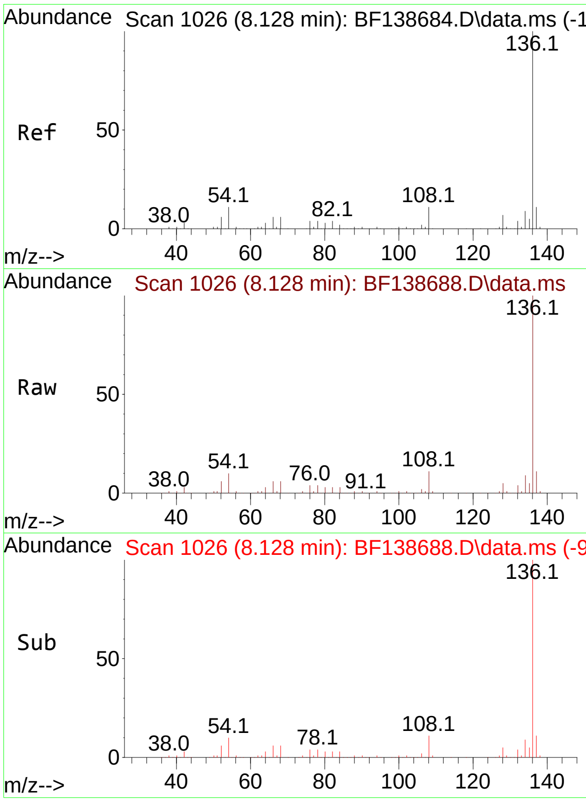
Tgt Ion:107 Resp: 221138

Ion	Ratio	Lower	Upper
107	100		
108	88.0	68.2	108.2
77	146.4	132.1	172.1
79	31.9	11.5	51.5



ICAL Form

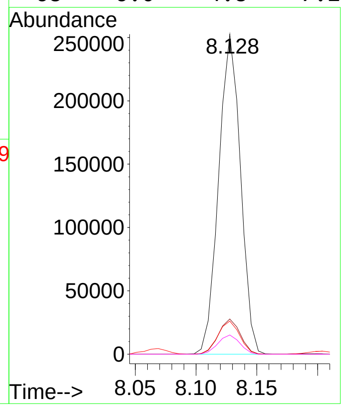
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

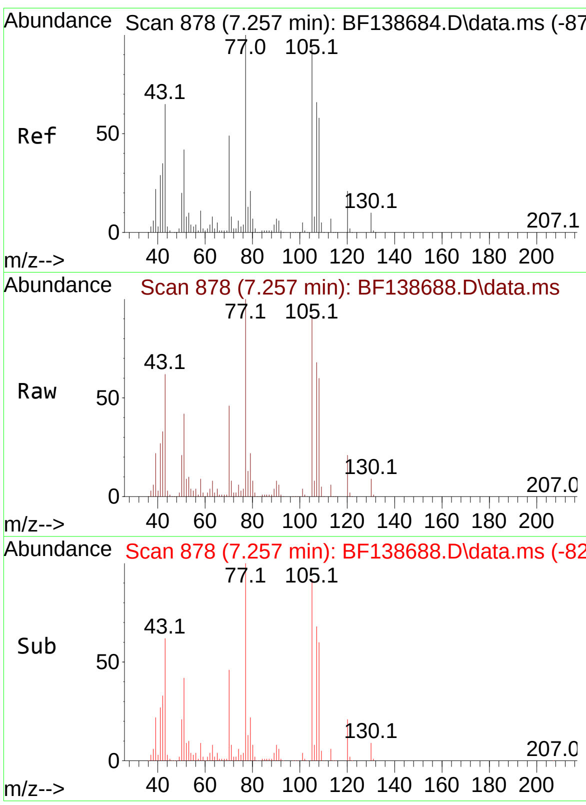


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:136 Resp: 316107

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	10.4	8.6	12.8
68	6.0	4.8	7.2

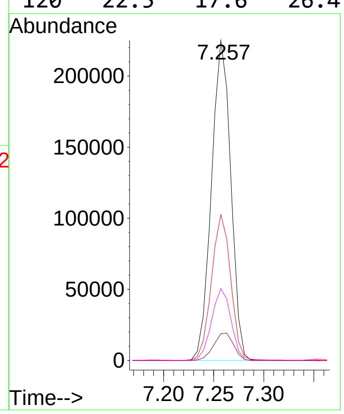




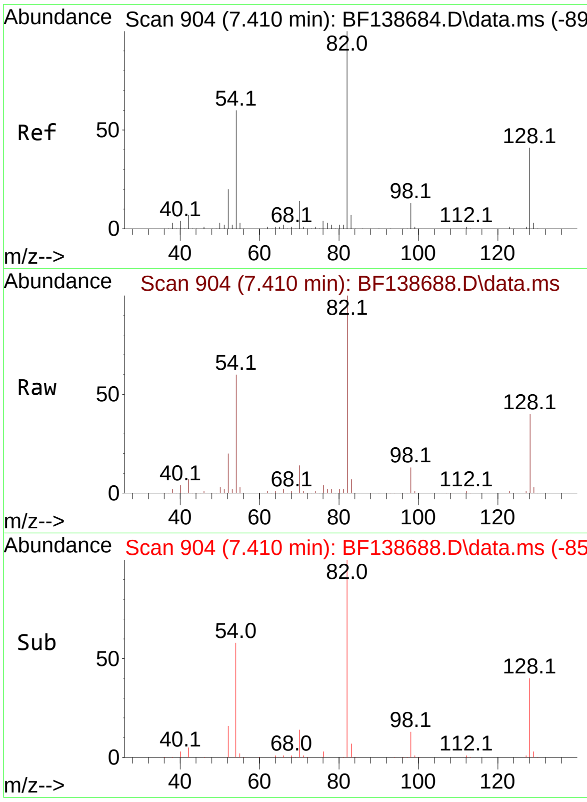
#22
Acetophenone
Concen: 39.095 ng
RT: 7.257 min Scan# 878
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:105 Resp: 302593

Ion	Ratio	Lower	Upper
105	100		
71	8.3	7.2	10.8
51	45.6	35.9	53.9
120	22.5	17.6	26.4



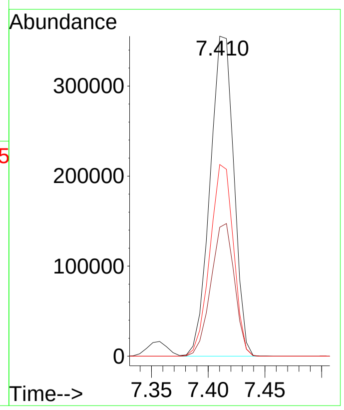
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

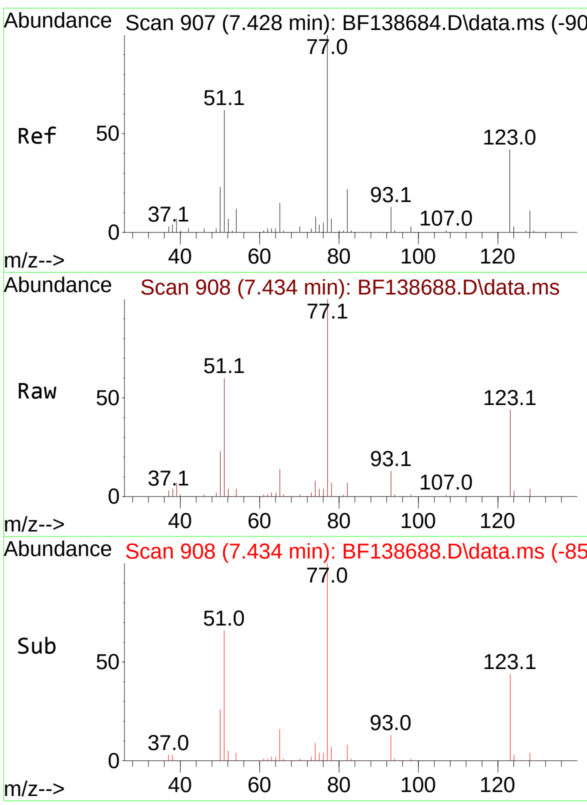


#23
Nitrobenzene-d5
Concen: 80.424 ng
RT: 7.410 min   Scan# 90
Delta R.T.   0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

Tgt Ion: 82 Resp: 519984

Ion	Ratio	Lower	Upper
82	100		
128	40.3	32.8	49.2
54	59.9	48.3	72.5

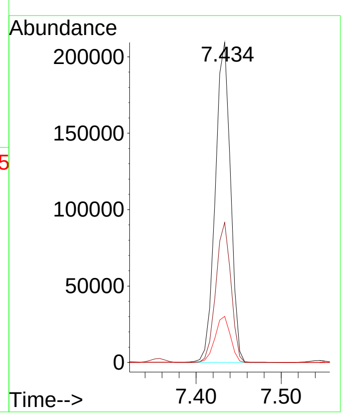




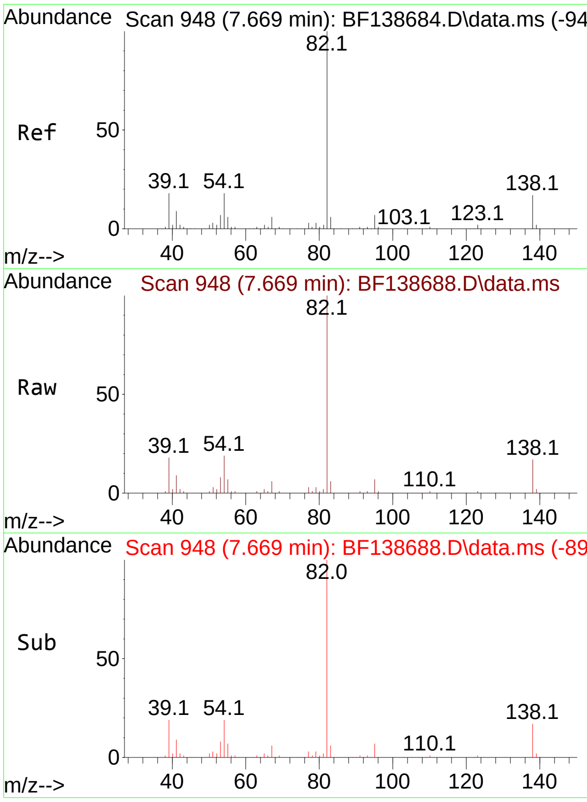
#24
Nitrobenzene
Concen: 39.882 ng
RT: 7.434 min   Scan# 908
Delta R.T.   0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

Tgt Ion: 77 Resp: 262386

Ion	Ratio	Lower	Upper
77	100		
123	43.7	33.3	49.9
65	14.4	11.9	17.9



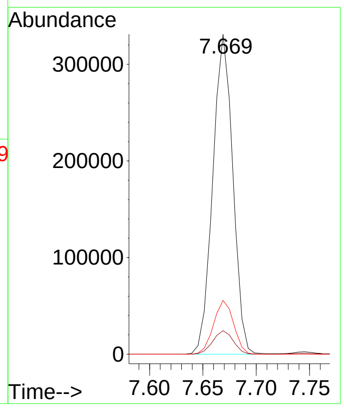
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

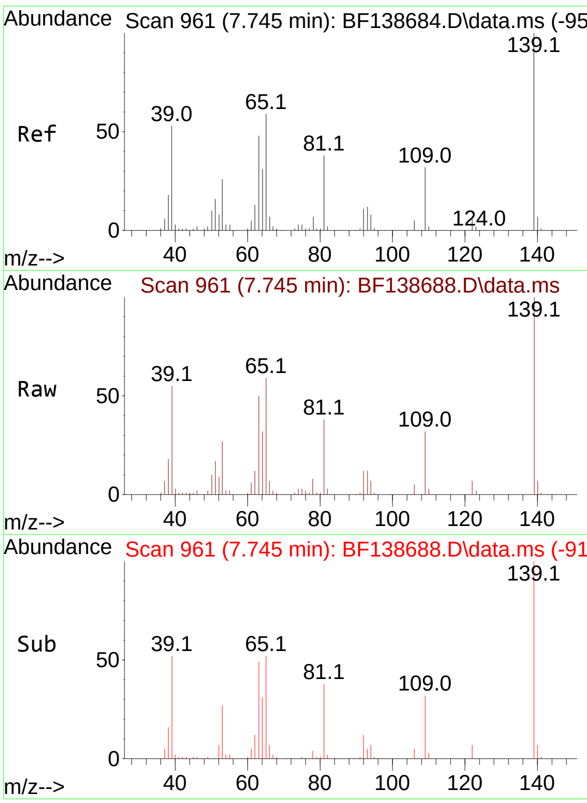


#25
Isophorone
Concen: 39.275 ng
RT: 7.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 82 Resp: 433596

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.7	8.5
138	16.8	13.7	20.5

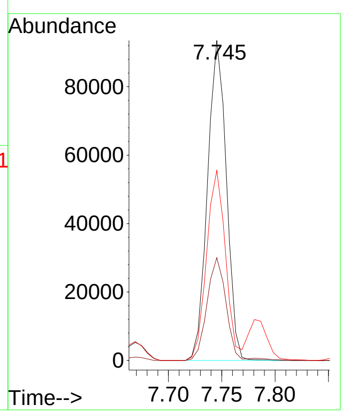




#26
2-Nitrophenol
Concen: 40.668 ng
RT: 7.745 min Scan# 961
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

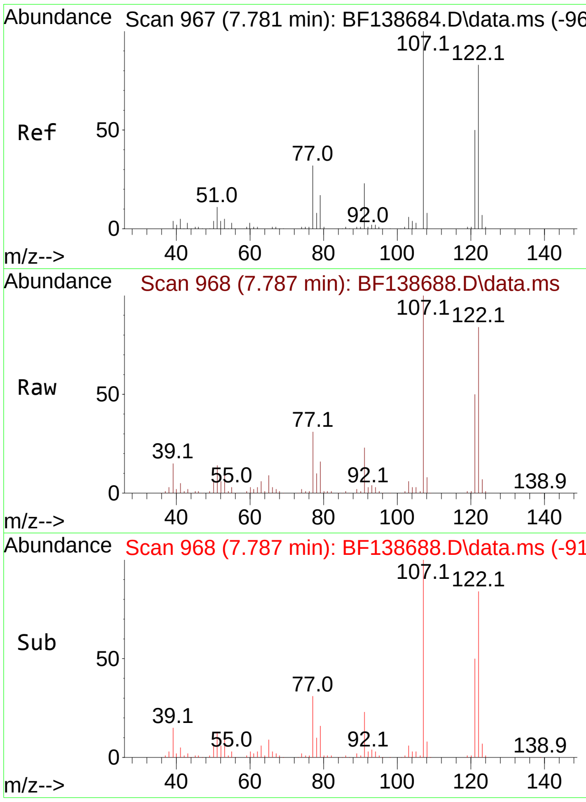
Tgt Ion:139 Resp: 115113

Ion	Ratio	Lower	Upper
139	100		
109	32.1	25.9	38.9
65	59.3	47.0	70.6



ICAL Form

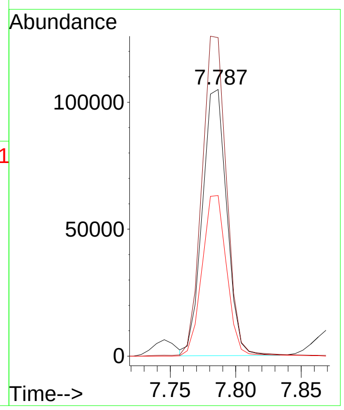
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

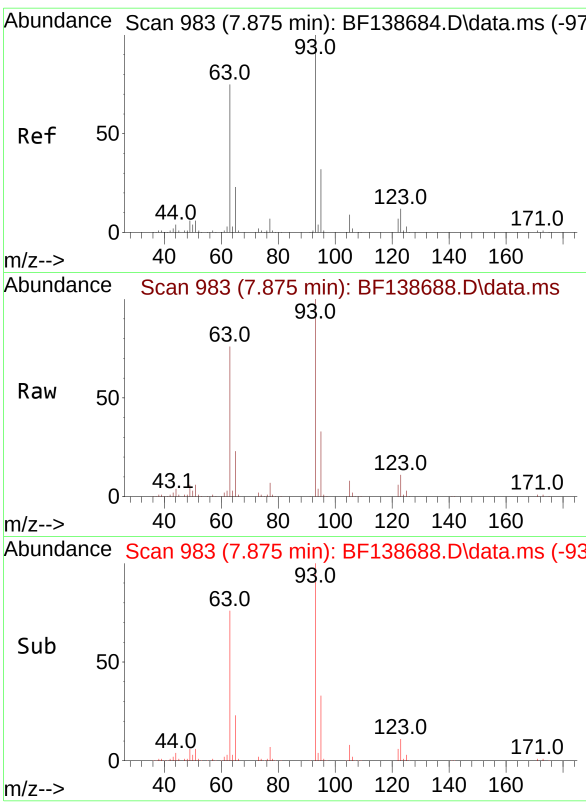


#27
2,4-Dimethylphenol
Concen: 40.231 ng
RT: 7.787 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:122 Resp: 136249

Ion	Ratio	Lower	Upper
122	100		
107	119.4	95.0	142.6
121	60.2	47.3	70.9

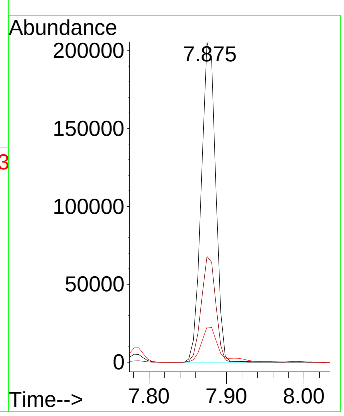




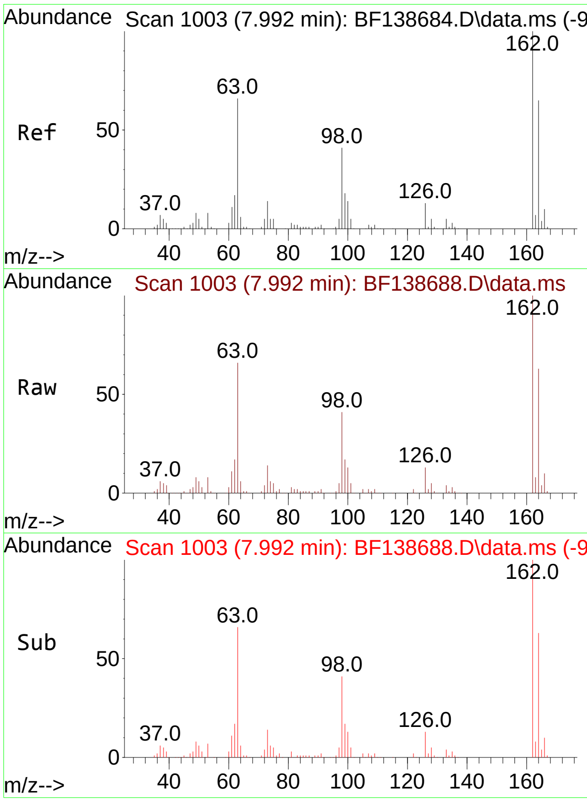
#28
bis(2-Chloroethoxy)methane
Concen: 39.557 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 93 Resp: 265943

Ion	Ratio	Lower	Upper
93	100		
95	33.1	25.8	38.8
123	11.0	9.4	14.0



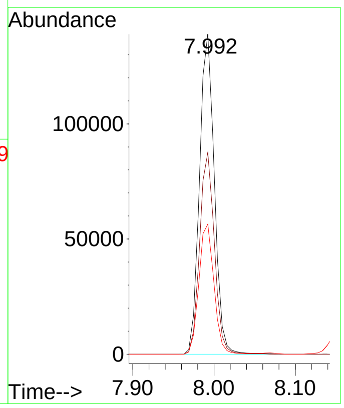
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

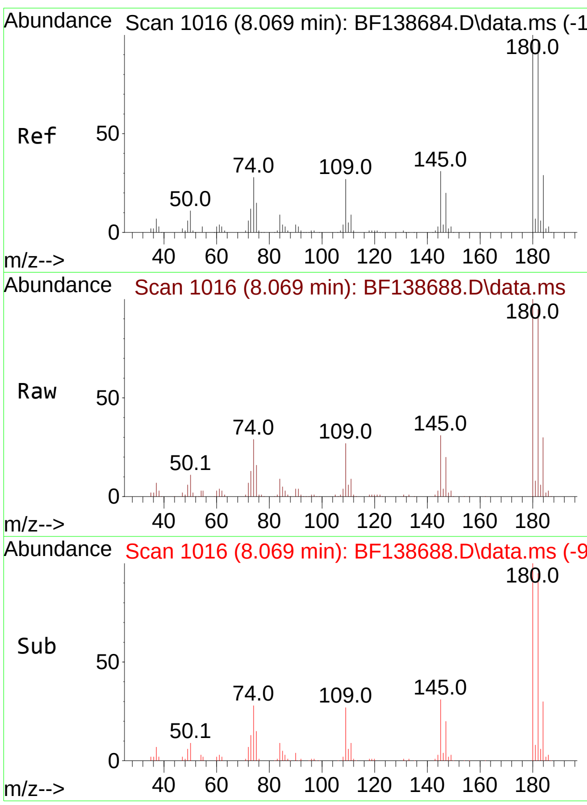


#29
2,4-Dichlorophenol
Concen: 40.567 ng
RT: 7.992 min   Scan# 1
Delta R.T.   0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

Tgt Ion:162 Resp: 176541

Ion	Ratio	Lower	Upper
162	100		
164	63.0	44.7	84.7
98	40.7	20.8	60.8

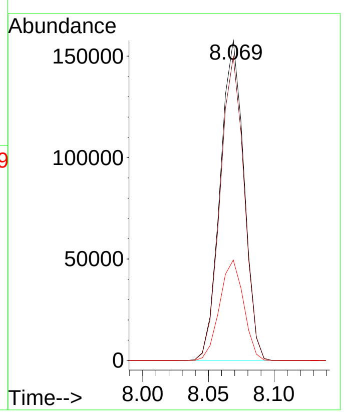




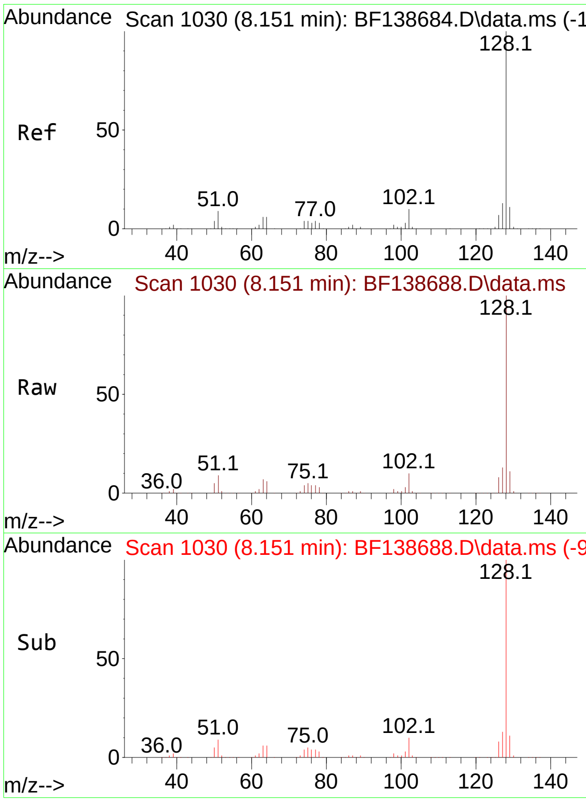
#30
1,2,4-Trichlorobenzene
Concen: 39.651 ng
RT: 8.069 min   Scan# 1016
Delta R.T.   0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

Tgt Ion:180 Resp: 199132

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.9	115.3
145	31.4	25.0	37.4



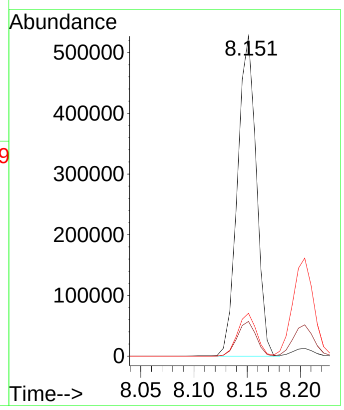
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

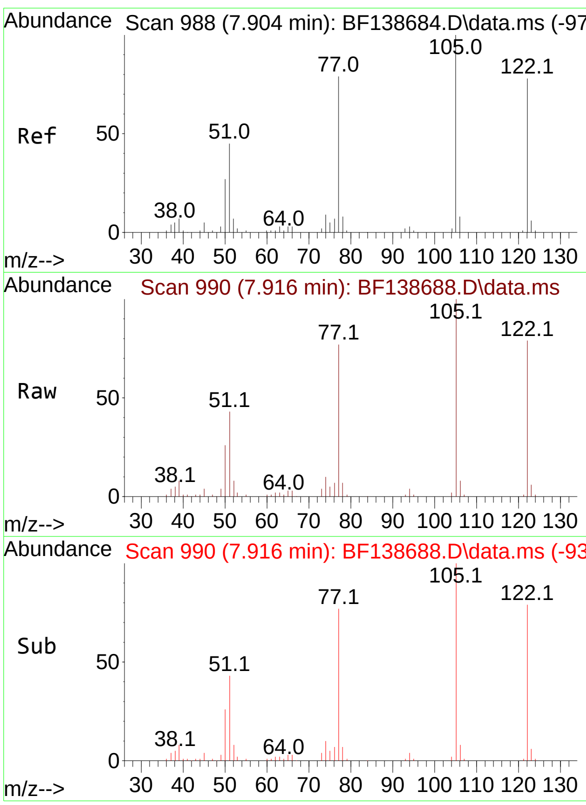


#31
Naphthalene
Concen: 39.232 ng
RT: 8.151 min Scan# 10
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:128 Resp: 652780

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.4	10.6	16.0

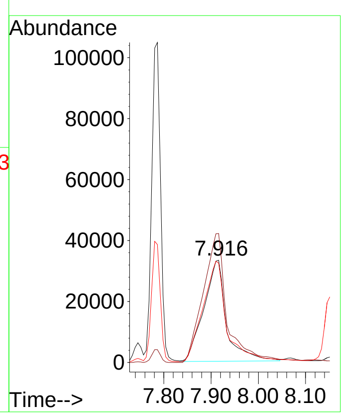




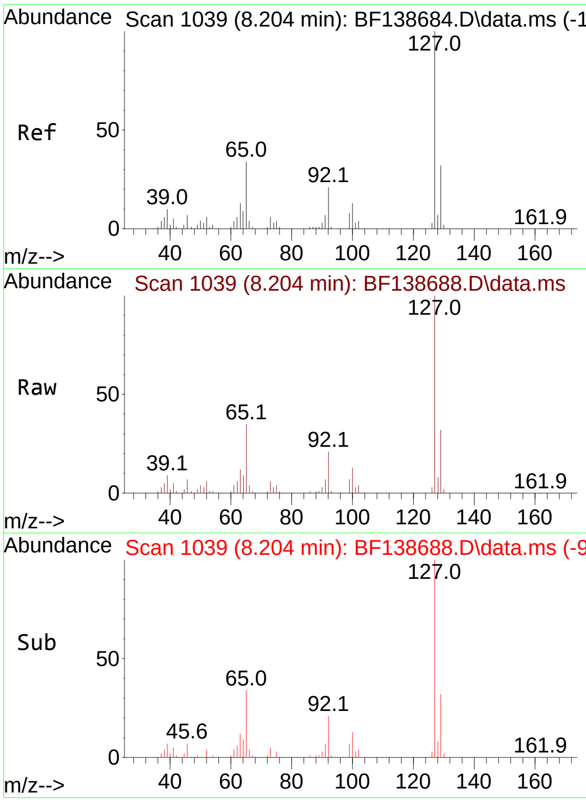
#32
Benzoic acid
Concen: 41.481 ng
RT: 7.916 min Scan# 990
Delta R.T. 0.012 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:122 Resp: 110429

Ion	Ratio	Lower	Upper
122	100		
105	126.2	106.7	146.7
77	97.2	81.1	121.1



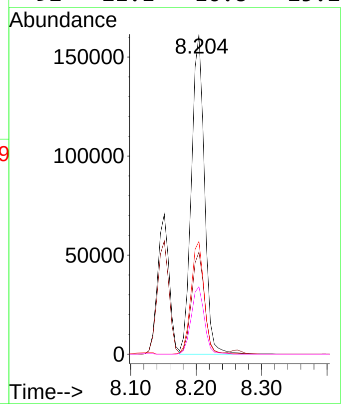
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

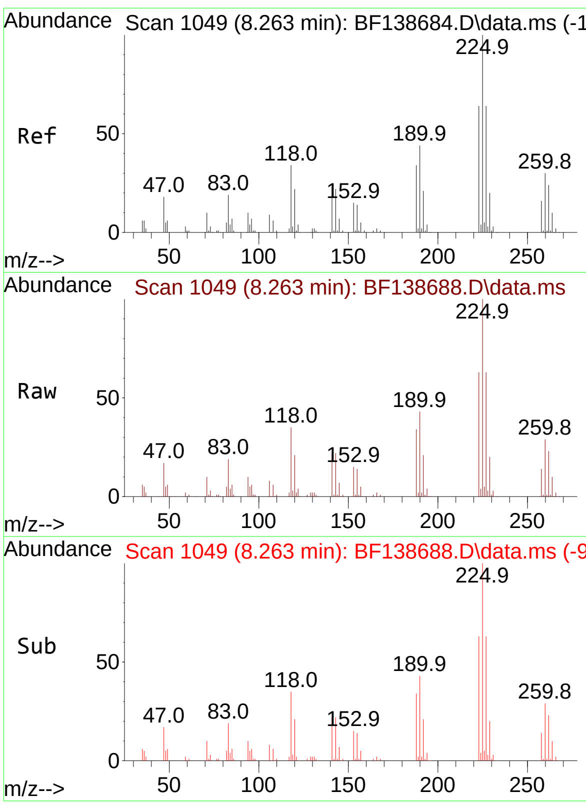


#33
4-Chloroaniline
Concen: 40.067 ng
RT: 8.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:127 Resp: 223787

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.9	38.9
65	35.2	27.6	41.4
92	21.1	16.8	25.2

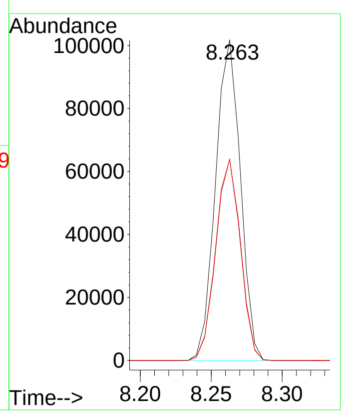




#34
Hexachlorobutadiene
Concen: 40.772 ng
RT: 8.263 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

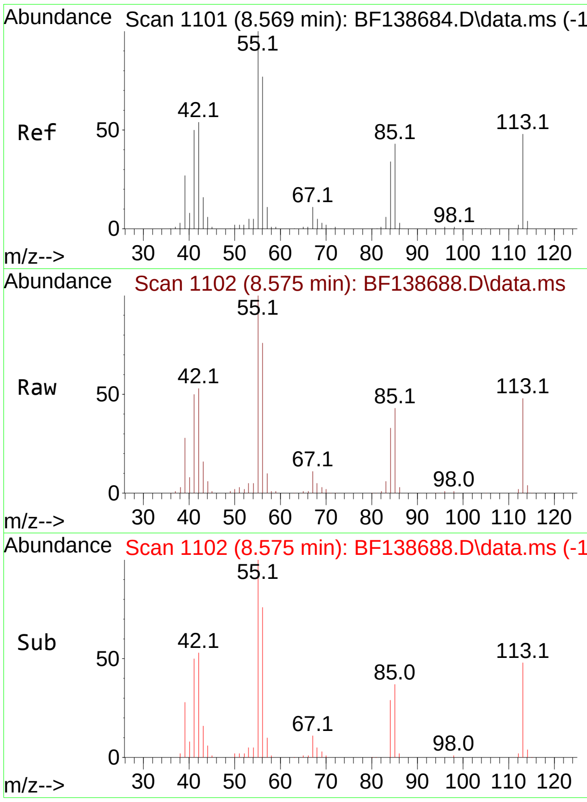
Tgt Ion:225 Resp: 124022

Ion	Ratio	Lower	Upper
225	100		
223	62.8	51.2	76.8
227	62.9	51.1	76.7

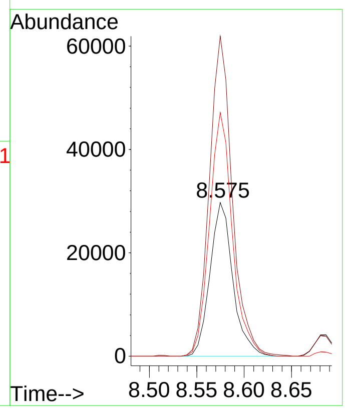


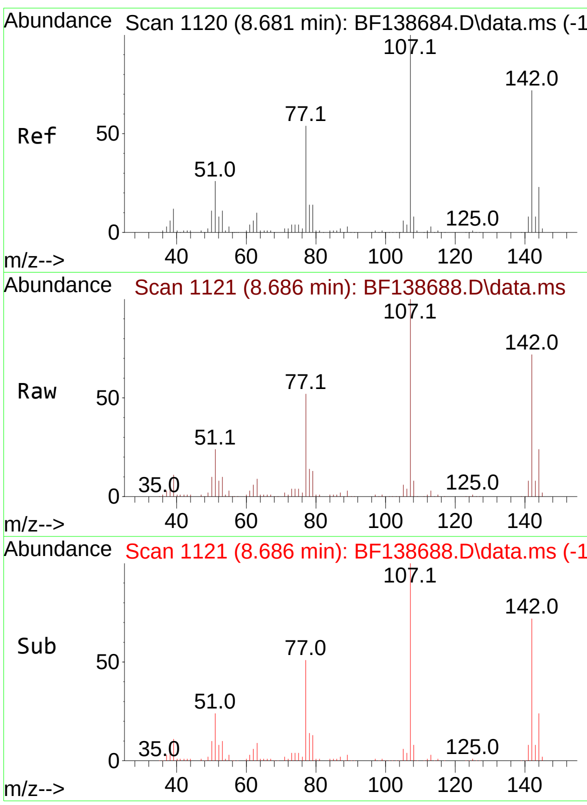
ICAL Form

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

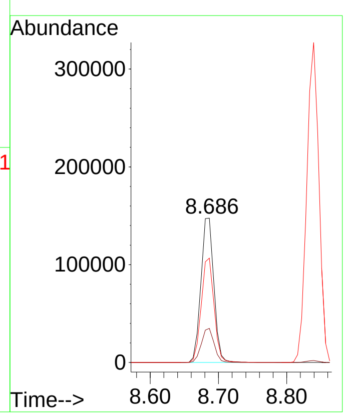



```
#35
Caprolactam
Concen:   38.365 ng
RT:   8.575 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   BF138688.D
Acq: 30 Jul 2024  17:55

Tgt Ion:113 Resp:   49818
Ion  Ratio  Lower  Upper
113  100
 55  208.2  186.7  226.7
 56  158.6  138.9  178.9
```



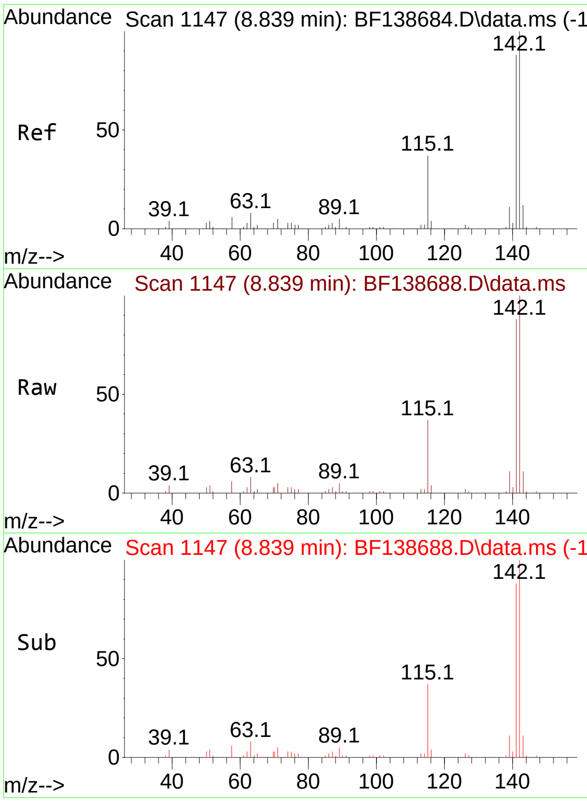



```
#36
4-Chloro-3-methylphenol
Concen:   39.164 ng
RT:   8.686 min  Scan# 1121
Delta R.T.  0.006 min
Lab File:   BF138688.D
Acq: 30 Jul 2024  17:55

Tgt Ion:107 Resp:  194782
Ion  Ratio  Lower  Upper
107  100
144   23.6   18.2   27.2
142   72.3   57.4   86.2
```



ICAL Form

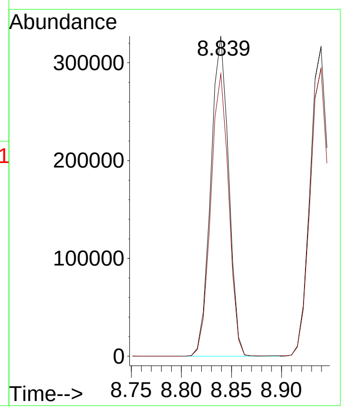
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

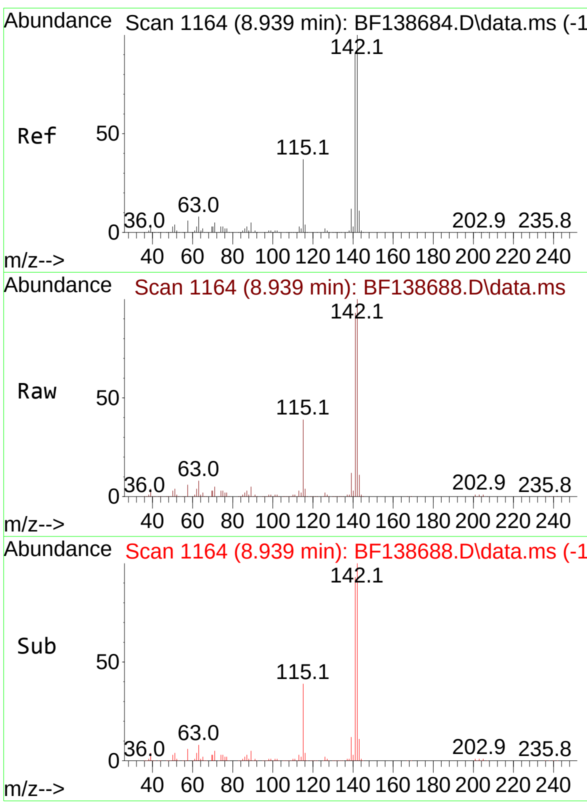


#37
2-Methylnaphthalene
Concen: 38.836 ng
RT: 8.839 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:142 Resp: 408106

Ion	Ratio	Lower	Upper
142	100		
141	88.3	70.8	106.2

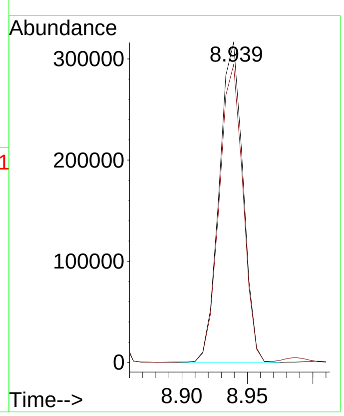




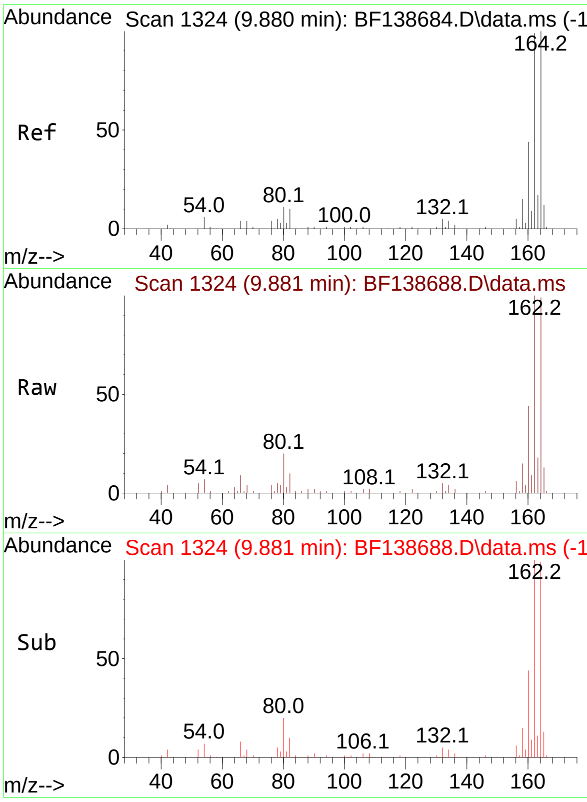
#38
1-Methylnaphthalene
Concen: 38.666 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:142 Resp: 398155

Ion	Ratio	Lower	Upper
142	100		
141	93.1	73.1	109.7



ICAL Form

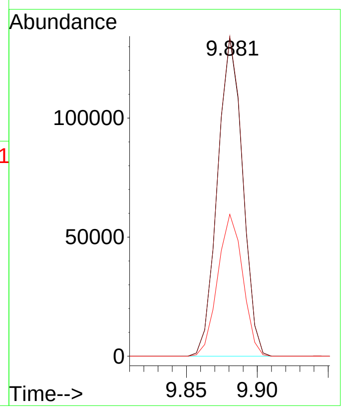


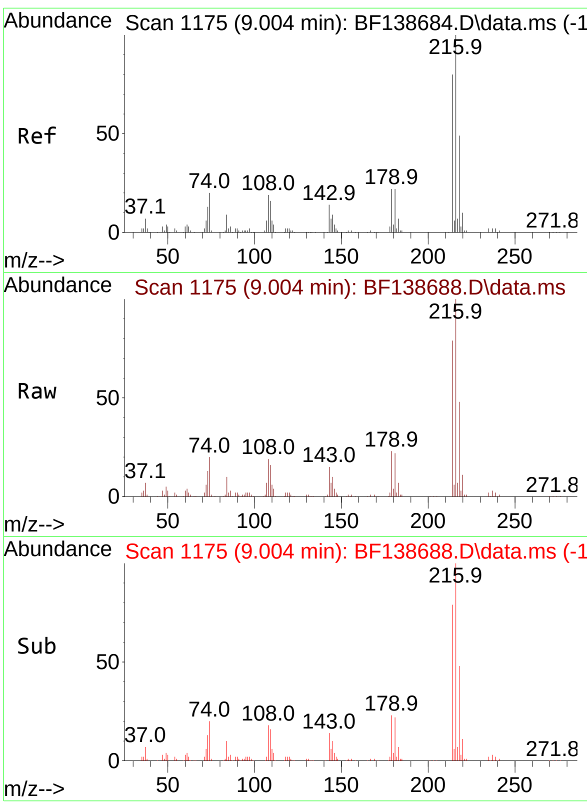
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min   Scan# 1
Delta R.T.   0.001 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Tgt Ion:164 Resp: 164062

Ion	Ratio	Lower	Upper
164	100		
162	100.6	79.4	119.0
160	44.6	35.1	52.7

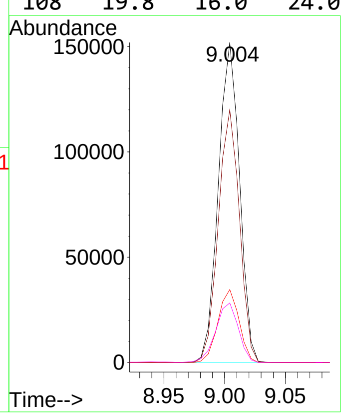




#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.554 ng
RT: 9.004 min   Scan# 1175
Delta R.T.   0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

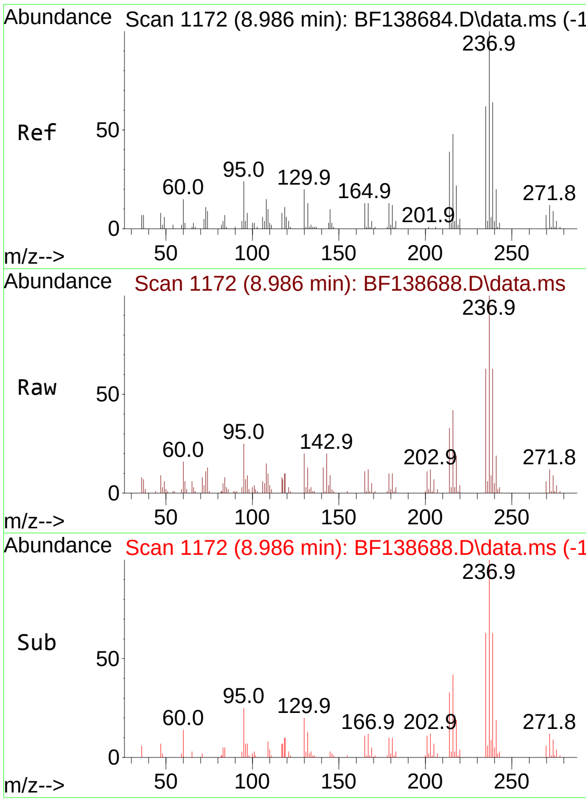
Tgt Ion:216 Resp: 184821

Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.9	95.9
179	22.6	17.8	26.6
108	19.8	16.0	24.0



ICAL Form

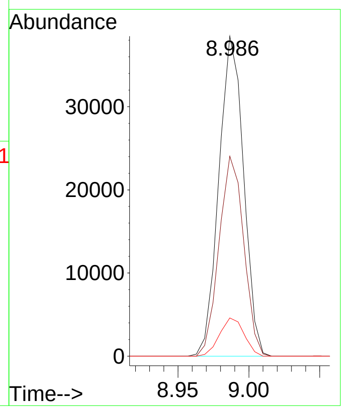
Instrument : BNA_F
ClientSampleId : ICVBF073024

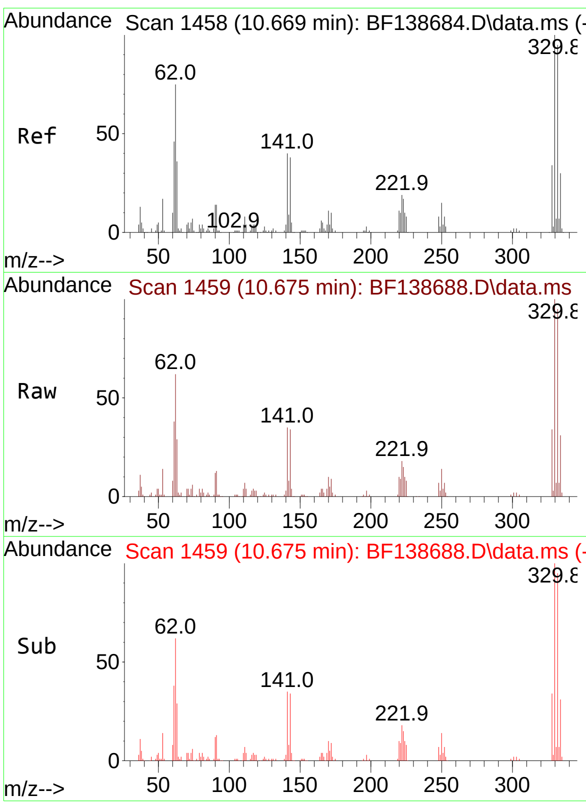


#41
Hexachlorocyclopentadiene
Concen: 42.278 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:237 Resp: 46660

Ion	Ratio	Lower	Upper
237	100		
235	62.5	41.8	81.8
272	11.9	0.0	32.2

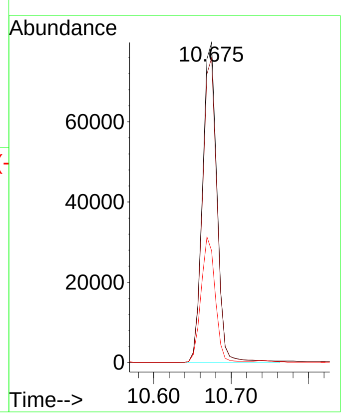




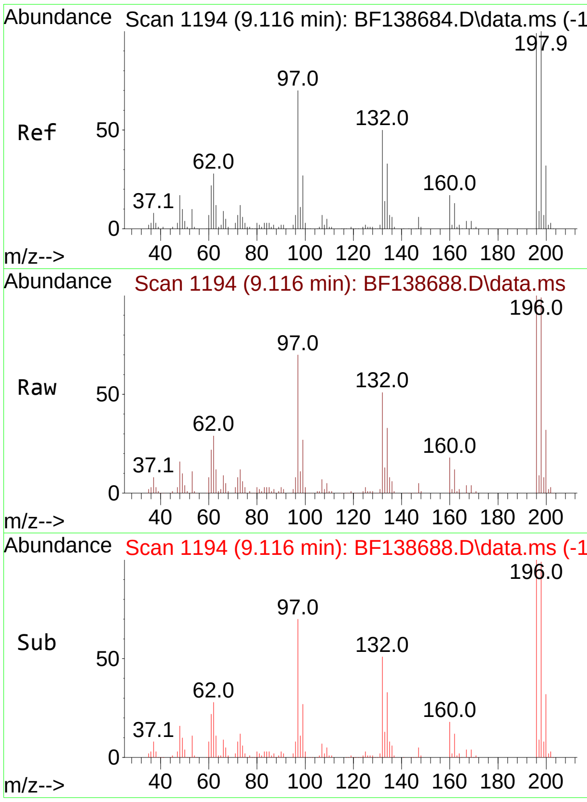
#42
2,4,6-Tribromophenol
Concen: 77.401 ng
RT: 10.675 min Scan# 1459
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:330 Resp: 104018

Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.4	114.6
141	38.5	31.1	46.7



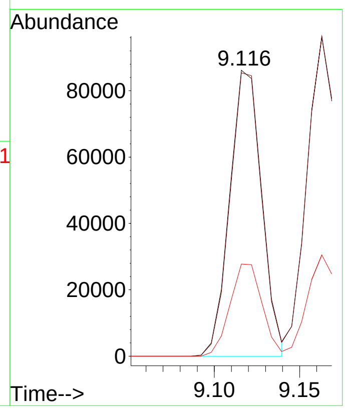
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

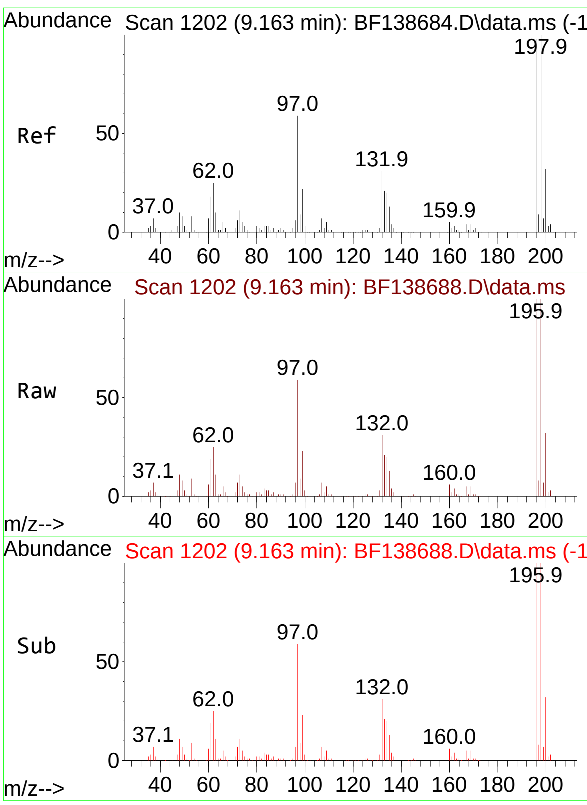


#43
2,4,6-Trichlorophenol
Concen: 40.384 ng
RT: 9.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:196 Resp: 112217

Ion	Ratio	Lower	Upper
196	100		
198	99.1	80.5	120.7
200	32.2	25.9	38.9

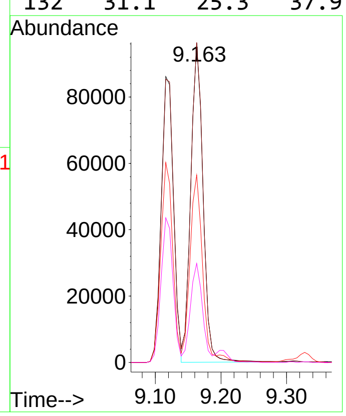




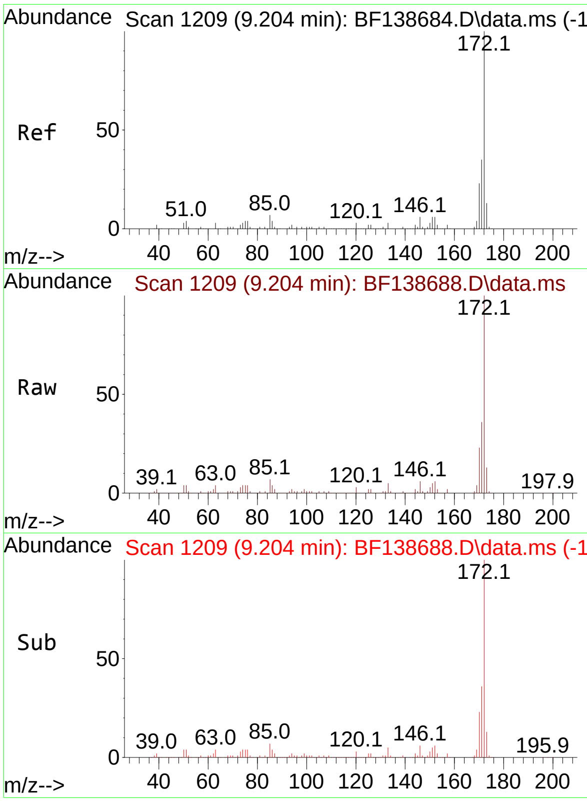
#44
2,4,5-Trichlorophenol
Concen: 41.011 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:196 Resp: 124581

Ion	Ratio	Lower	Upper
196	100		
198	100.3	81.2	121.8
97	58.7	47.8	71.6
132	31.1	25.3	37.9



ICAL Form



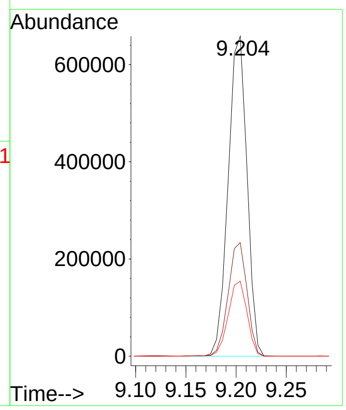
#45
2-Fluorobiphenyl
Concen: 78.500 ng
RT: 9.204 min Scan# 1

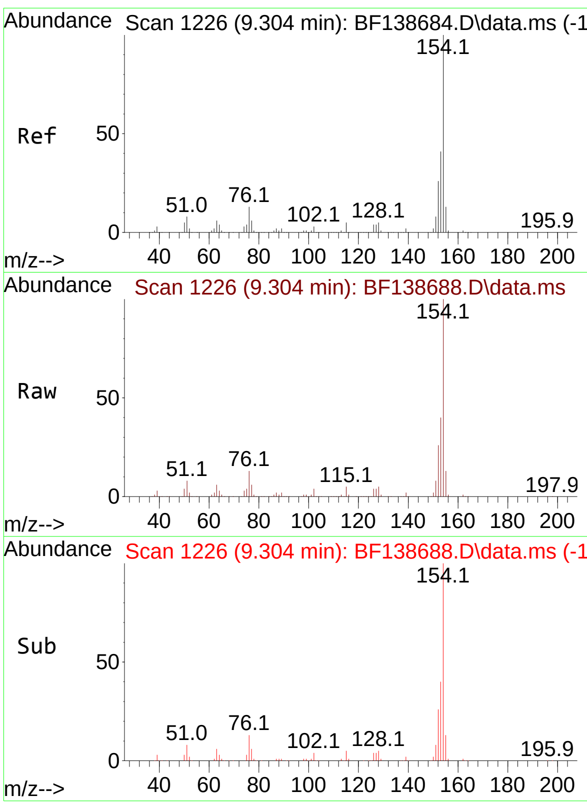
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:172 Resp: 857165

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.3	42.5
170	23.5	18.8	28.2

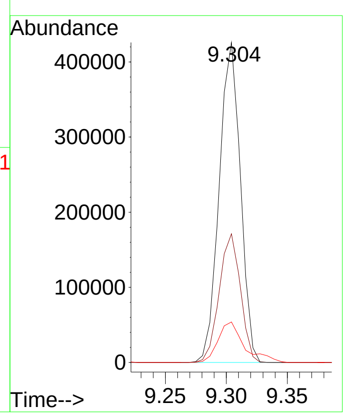




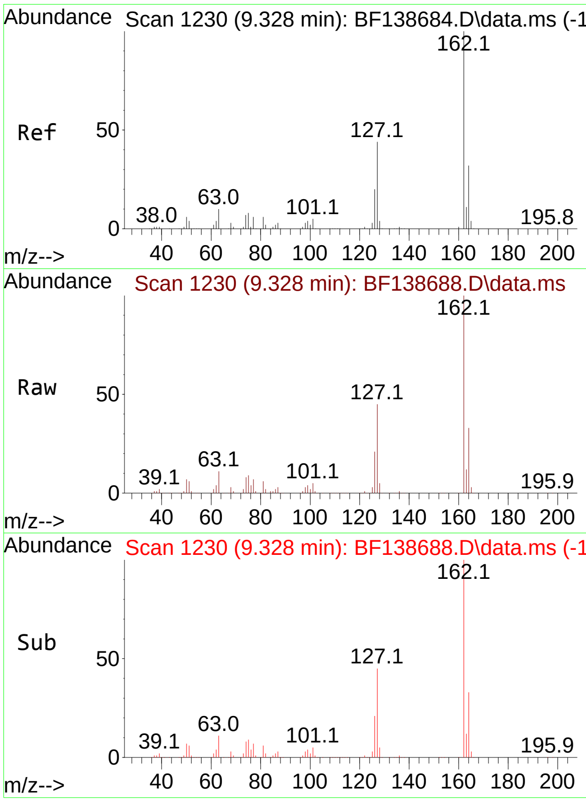
#46
1,1'-Biphenyl
Concen: 40.156 ng
RT: 9.304 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:154 Resp: 515966

Ion	Ratio	Lower	Upper
154	100		
153	40.2	20.8	60.8
76	12.7	0.0	32.8



ICAL Form

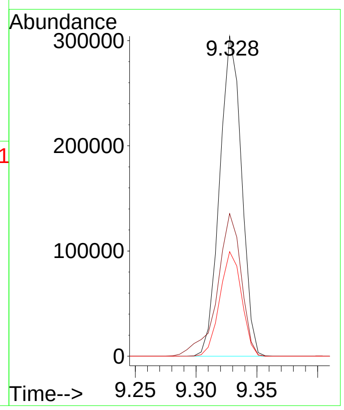


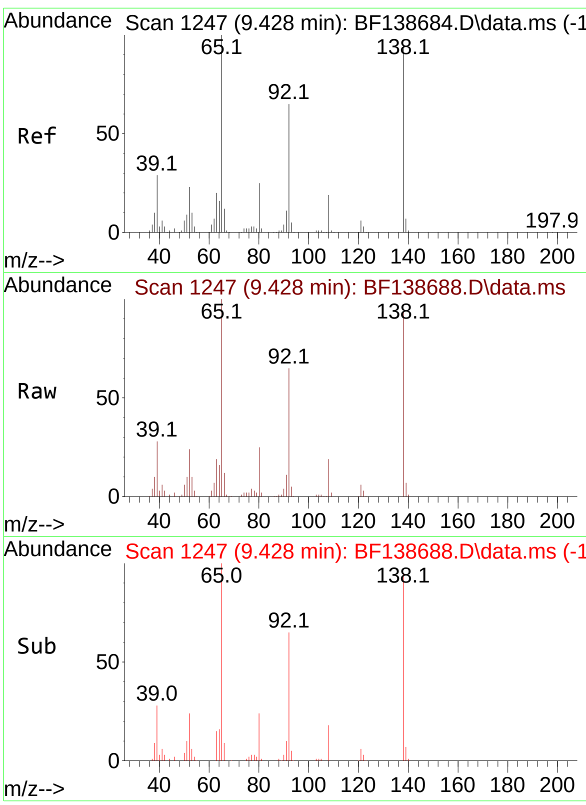
#47
2-Chloronaphthalene
Concen: 39.966 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Tgt Ion:162 Resp: 381923

Ion	Ratio	Lower	Upper
162	100		
127	44.5	35.4	53.2
164	32.6	25.6	38.4

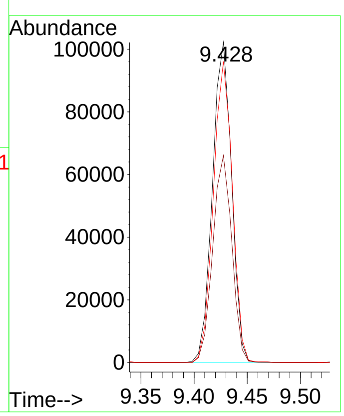




#48
2-Nitroaniline
Concen: 39.505 ng
RT: 9.428 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

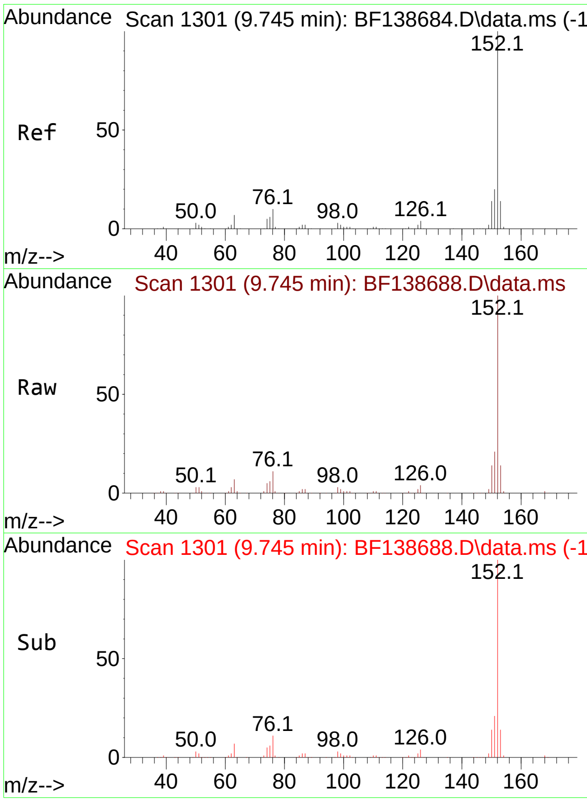
Tgt Ion: 65 Resp: 127985

Ion	Ratio	Lower	Upper
65	100		
92	64.6	52.0	78.0
138	94.1	76.2	114.4



ICAL Form

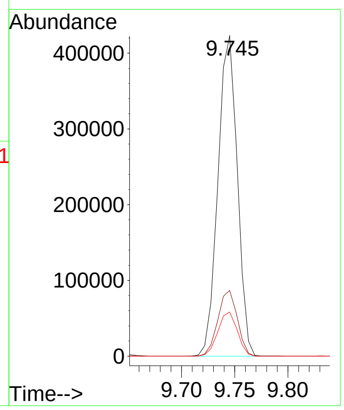
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

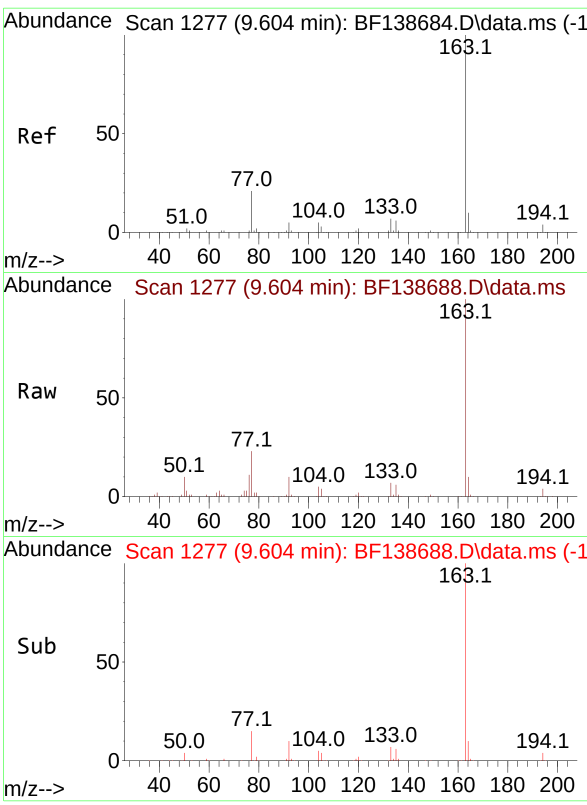


#49
Acenaphthylene
Concen: 39.504 ng
RT: 9.745 min Scan# 1301
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:152 Resp: 535427

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.0	24.0
153	13.8	11.0	16.4

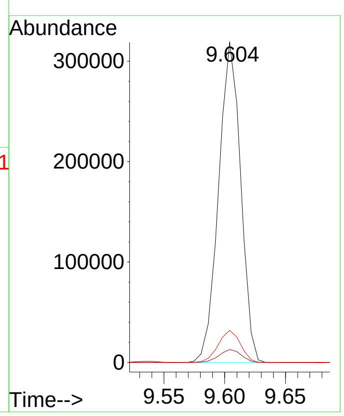




#50
Dimethylphthalate
Concen: 38.458 ng
RT: 9.604 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

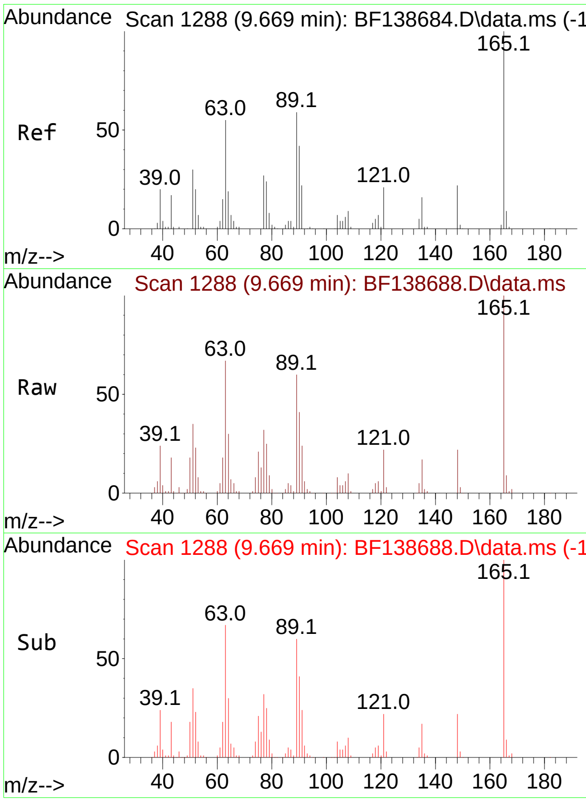
Tgt Ion:163 Resp: 403438

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.1	7.8	11.8



ICAL Form

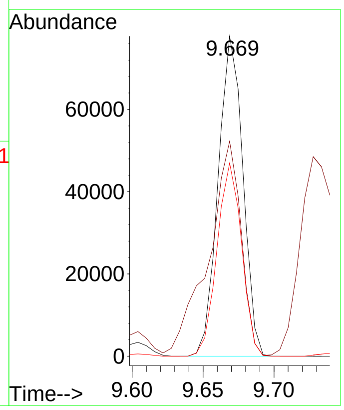
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

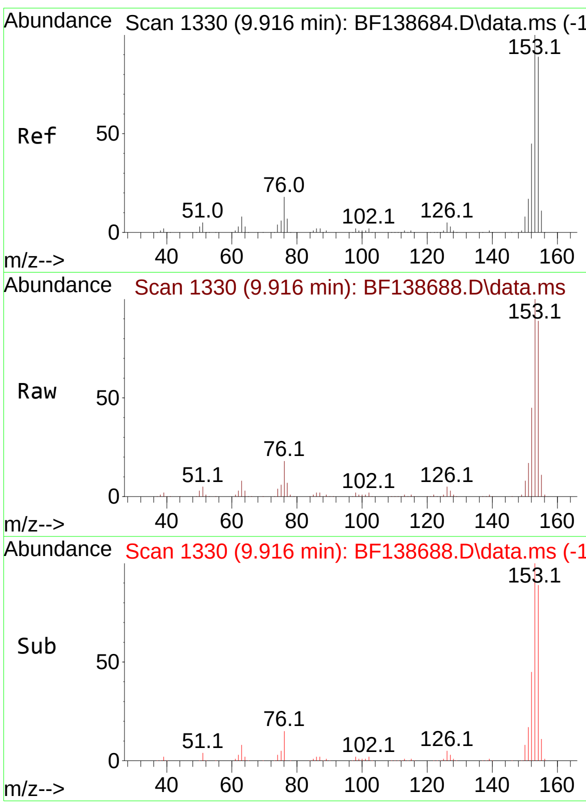


#51
2,6-Dinitrotoluene
Concen: 39.895 ng
RT: 9.669 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:165 Resp: 94451

Ion	Ratio	Lower	Upper
165	100		
63	67.1	52.0	78.0
89	60.3	47.0	70.6

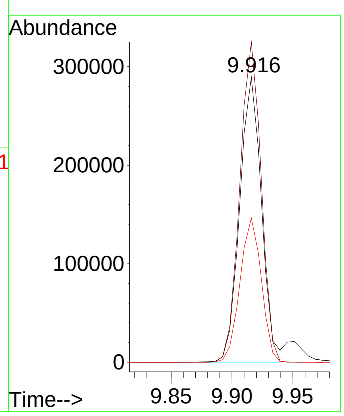


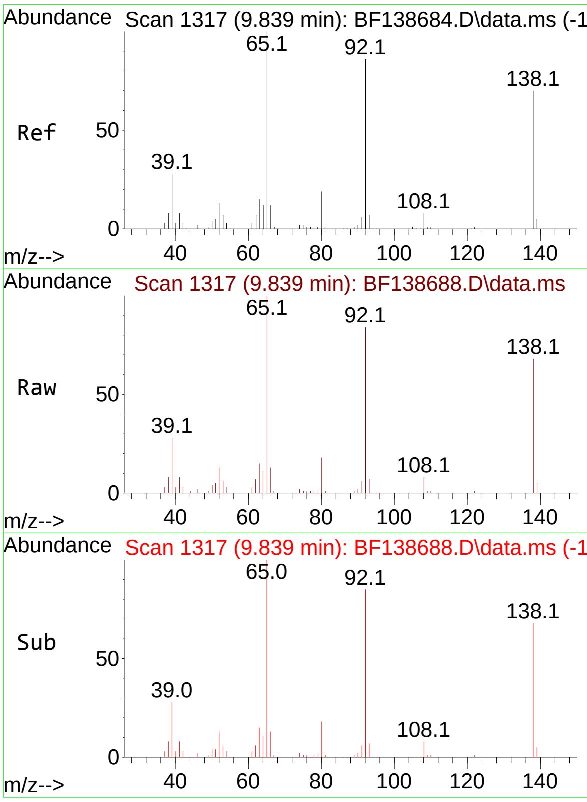


#52
Acenaphthene
Concen: 39.456 ng
RT: 9.916 min Scan# 1330
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:154 Resp: 359484

Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.9	134.9
152	50.6	40.6	60.8



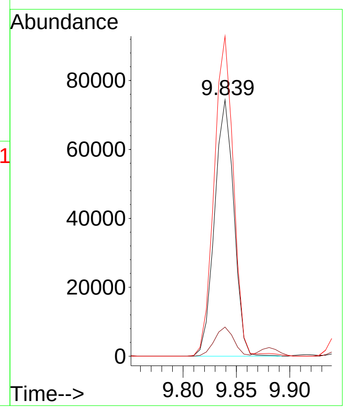


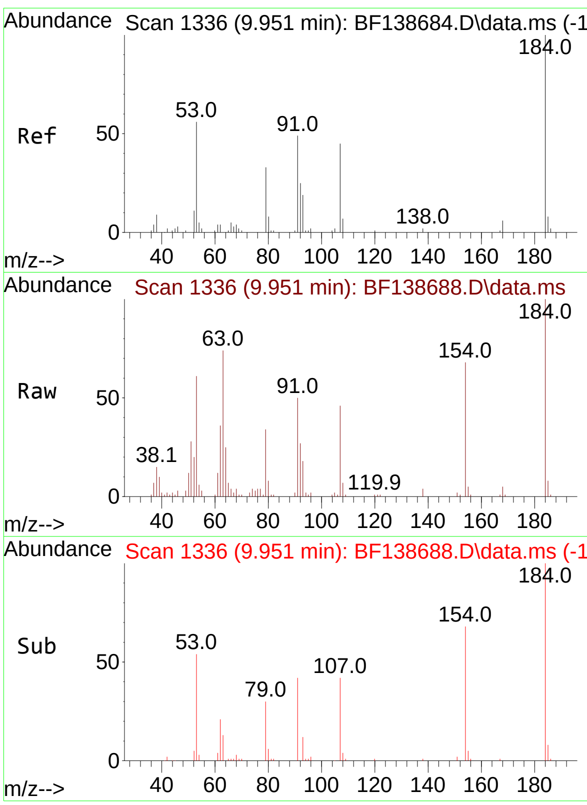
#53
3-Nitroaniline
Concen: 38.306 ng
RT: 9.839 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Tgt Ion:138 Resp: 93752

Ion	Ratio	Lower	Upper
138	100		
108	11.3	9.1	13.7
92	124.8	98.7	148.1

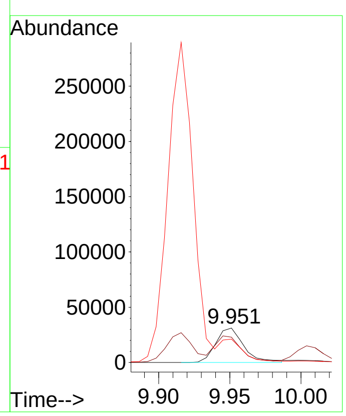




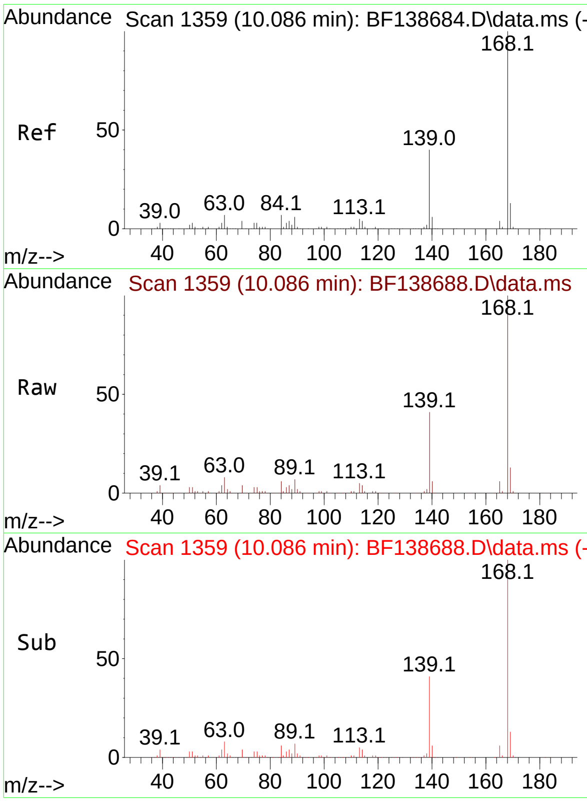
#54
2,4-Dinitrophenol
Concen: 39.106 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:184 Resp: 42619

Ion	Ratio	Lower	Upper
184	100		
63	73.7	57.5	86.3
154	67.8	51.7	77.5



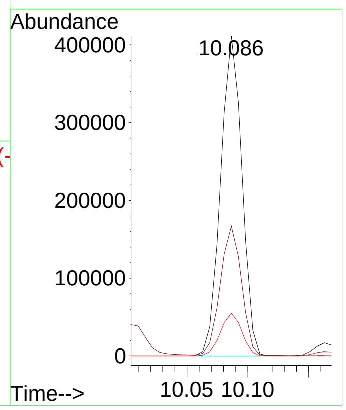
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

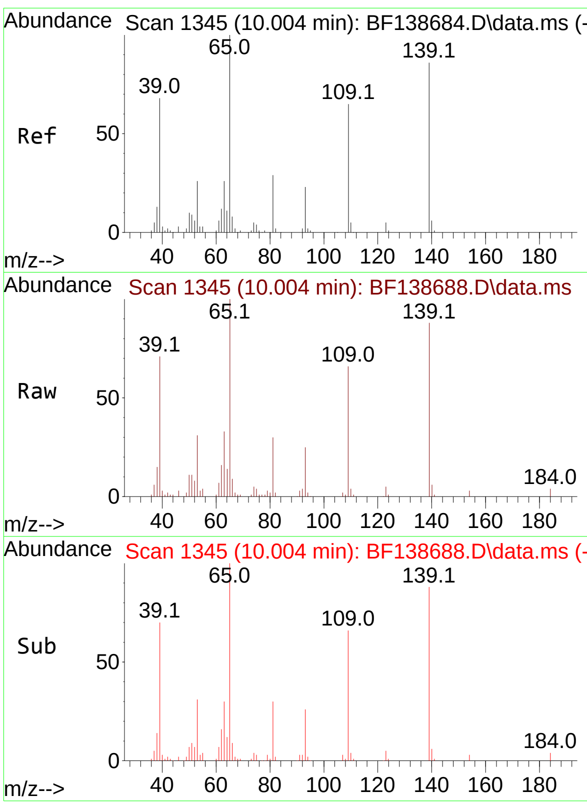


#55
Dibenzofuran
Concen: 38.997 ng
RT: 10.086 min Scan# 1359
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:168 Resp: 501545

Ion	Ratio	Lower	Upper
168	100		
139	40.5	32.6	49.0
169	13.4	10.7	16.1

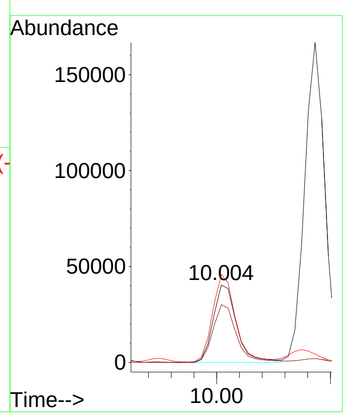




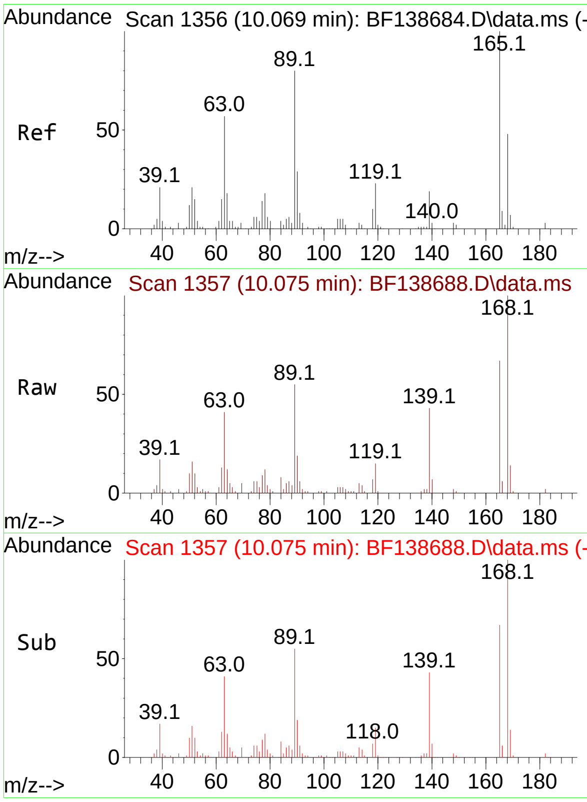
#56
4-Nitrophenol
Concen: 39.336 ng
RT: 10.004 min Scan# 1345
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:139 Resp: 57893

Ion	Ratio	Lower	Upper
139	100		
109	74.6	55.5	95.5
65	113.6	96.7	136.7



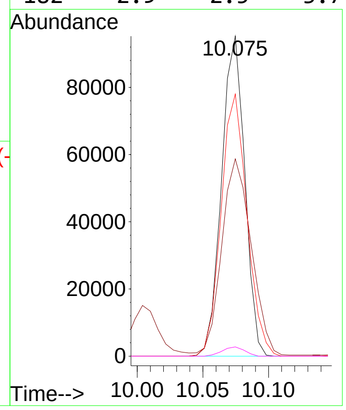
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

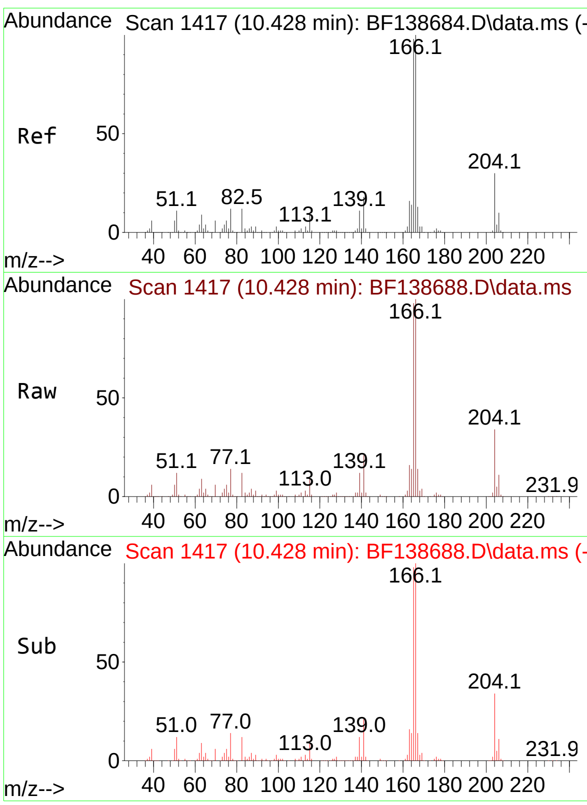


#57
2,4-Dinitrotoluene
Concen: 38.673 ng
RT: 10.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:165 Resp: 116813

Ion	Ratio	Lower	Upper
165	100		
63	61.6	46.3	69.5
89	81.9	64.2	96.4
182	2.9	2.5	3.7

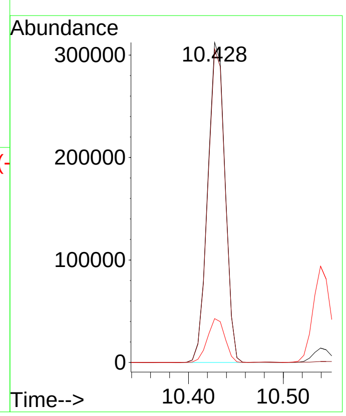




#58
Fluorene
Concen: 38.661 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

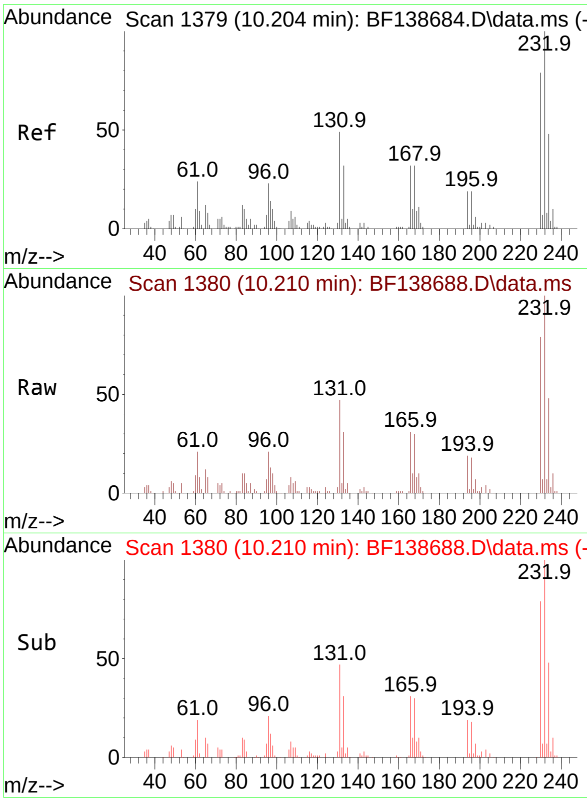
Tgt Ion:166 Resp: 395954

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.4	117.6
167	13.7	10.6	16.0



ICAL Form

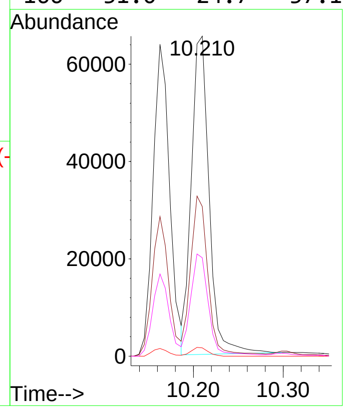
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

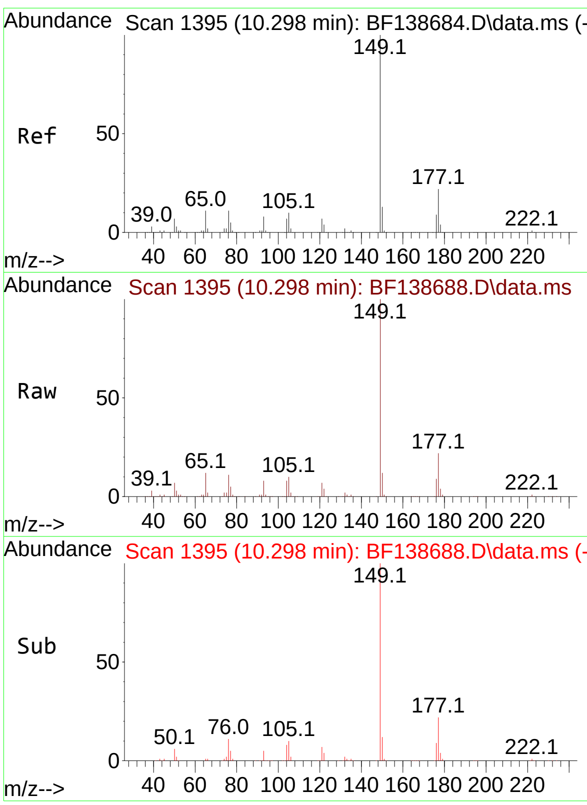


#59
2,3,4,6-Tetrachlorophenol
Concen: 38.680 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:232 Resp: 89831

Ion	Ratio	Lower	Upper
232	100		
131	49.2	37.0	55.4
130	2.6	2.0	3.0
166	31.0	24.7	37.1

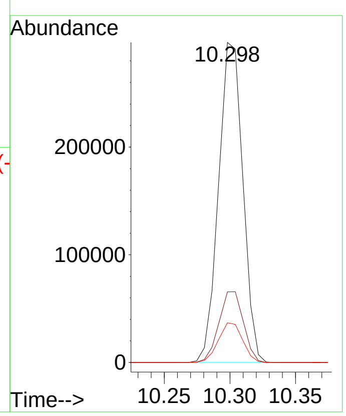




#60
Diethylphthalate
Concen: 38.447 ng
RT: 10.298 min Scan# 1395
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

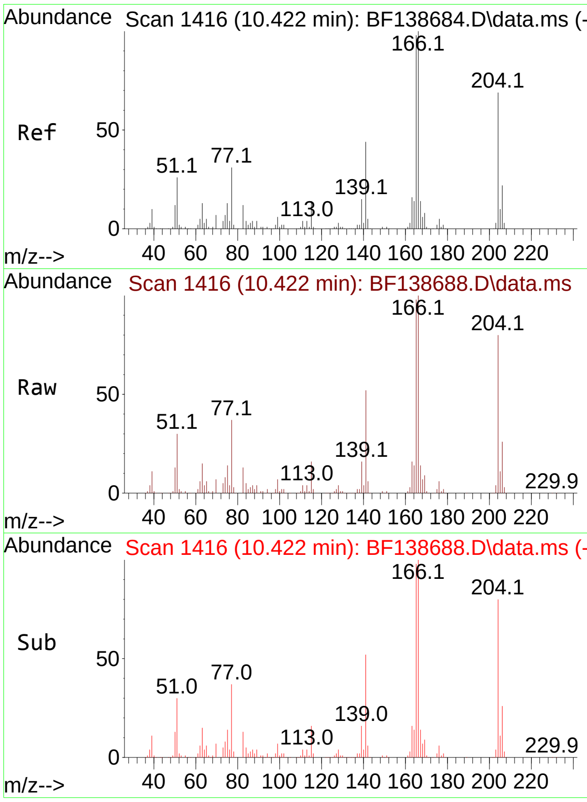
Tgt Ion:149 Resp: 382418

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.8	26.8
150	12.4	10.1	15.1



ICAL Form

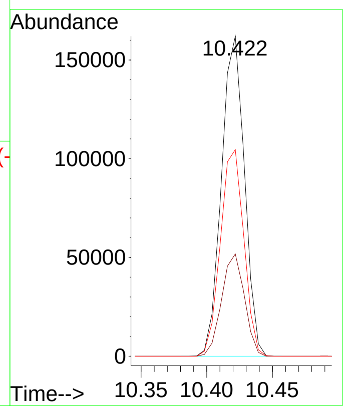
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

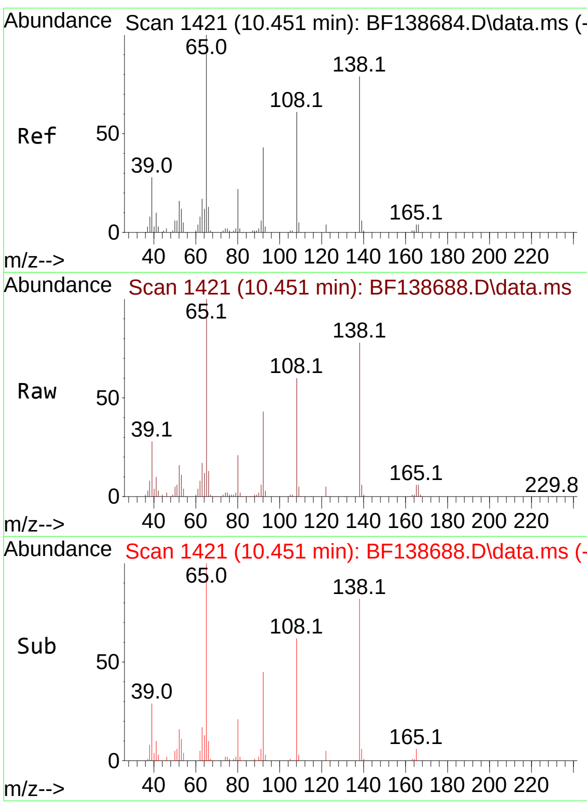


#61
4-Chlorophenyl-phenylether
Concen: 39.091 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:204 Resp: 196905

Ion	Ratio	Lower	Upper
204	100		
206	31.9	26.1	39.1
141	64.5	51.4	77.0

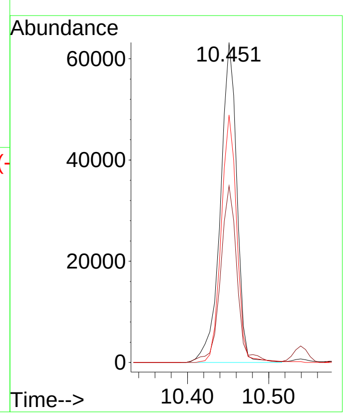




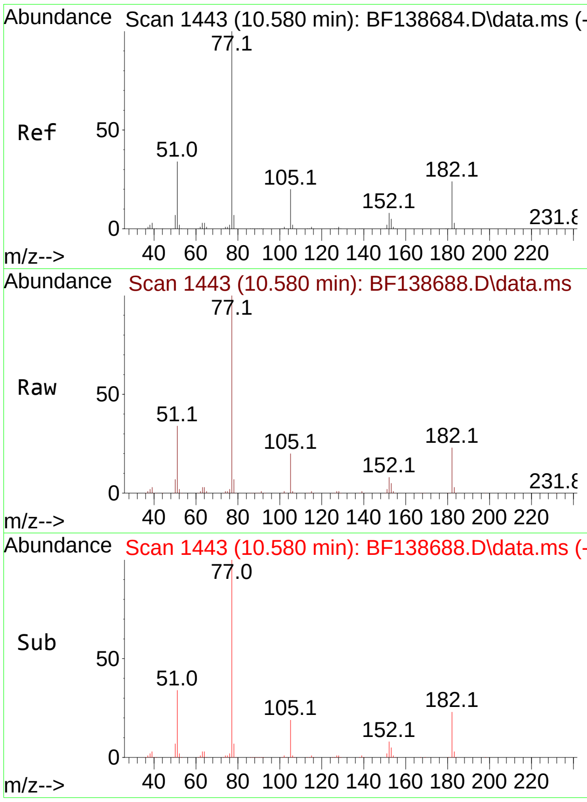
#62
4-Nitroaniline
Concen: 38.525 ng
RT: 10.451 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:138 Resp: 89602

Ion	Ratio	Lower	Upper
138	100		
92	55.2	34.2	74.2
108	77.4	56.2	96.2



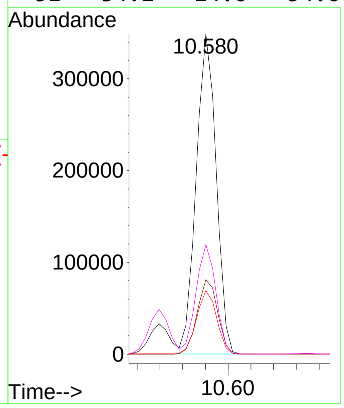
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

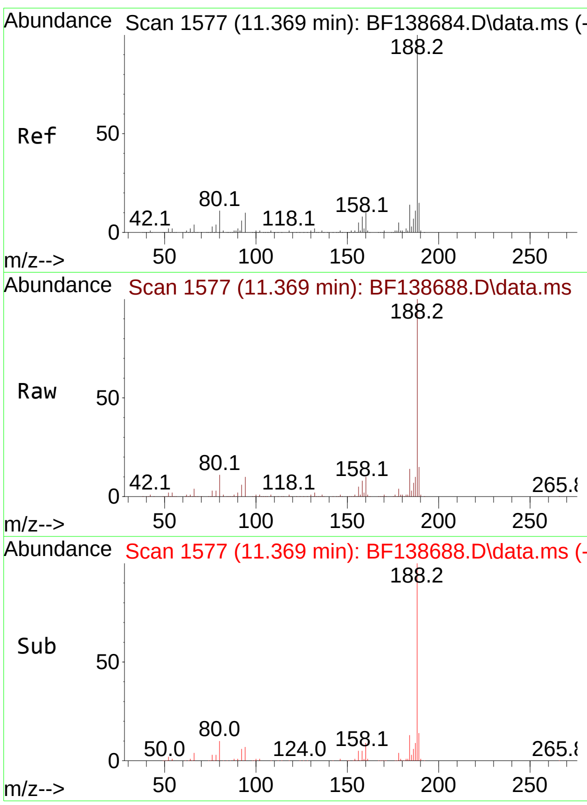


#63
Azobenzene
Concen: 38.622 ng
RT: 10.580 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 77 Resp: 426075

Ion	Ratio	Lower	Upper
77	100		
182	23.3	3.4	43.4
105	19.9	0.2	40.2
51	34.2	14.6	54.6

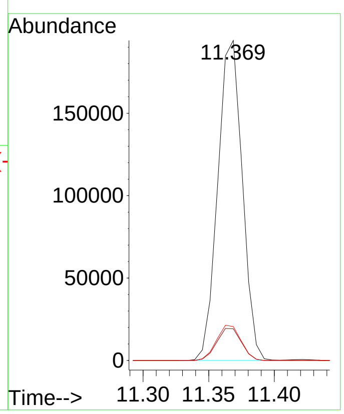




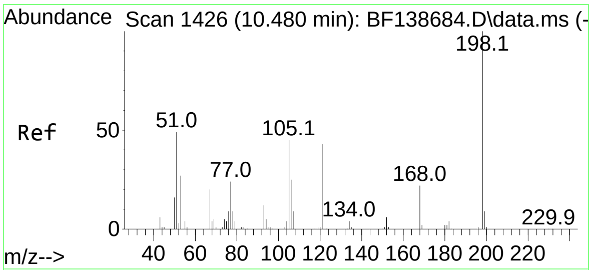
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

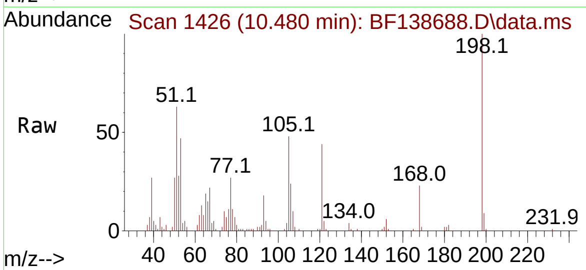
Tgt Ion:188 Resp: 252048

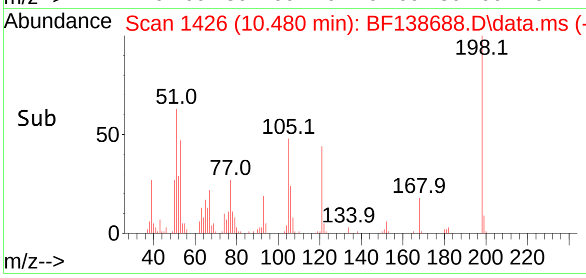
Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.6	11.4
80	10.6	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
ICVBF073024



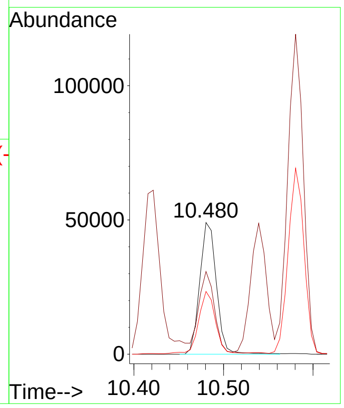


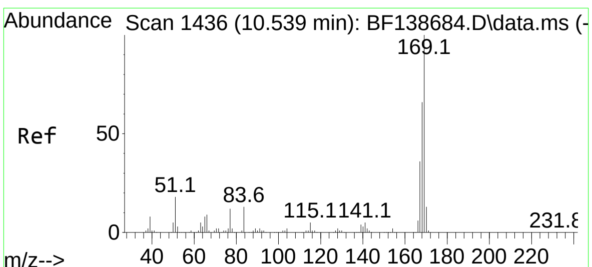


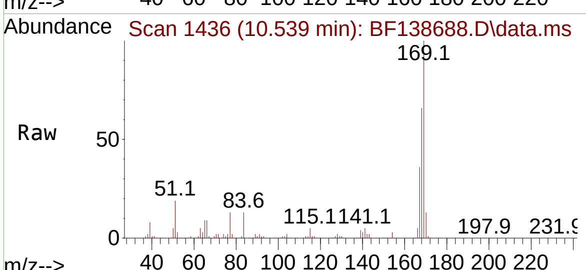
#65
4,6-Dinitro-2-methylphenol
Concen: 41.323 ng
RT: 10.480 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

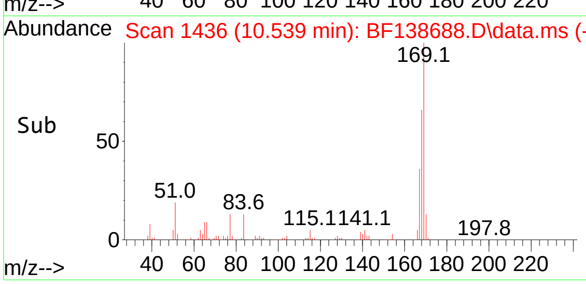
Tgt Ion:198 Resp: 63542

Ion	Ratio	Lower	Upper
198	100		
51	62.8	39.9	79.9
105	47.6	26.1	66.1





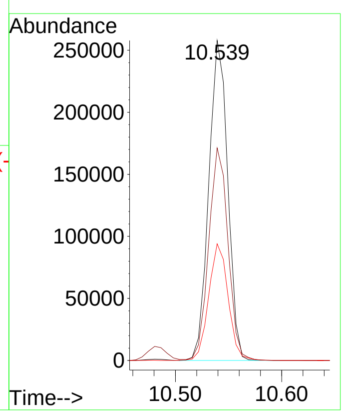




#66
n-Nitrosodiphenylamine
Concen: 40.561 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

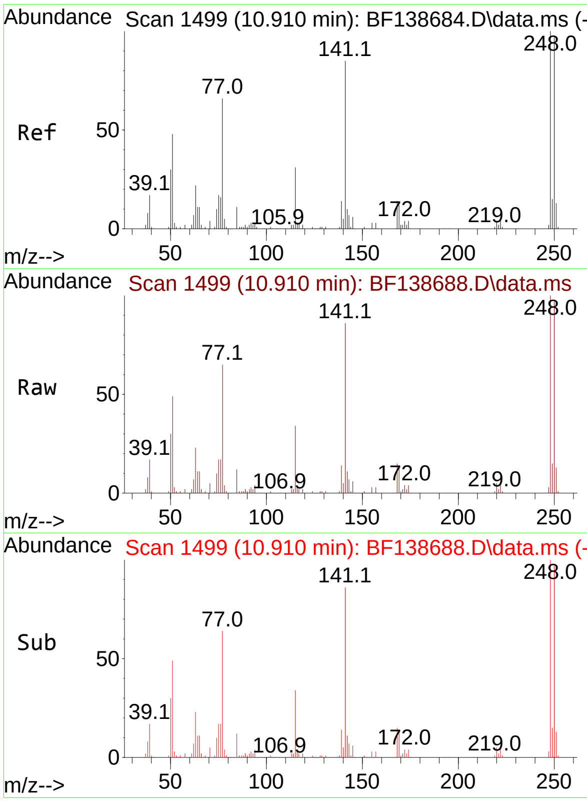
Tgt Ion:169 Resp: 319562

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.0	79.6
167	36.5	29.0	43.6



ICAL Form

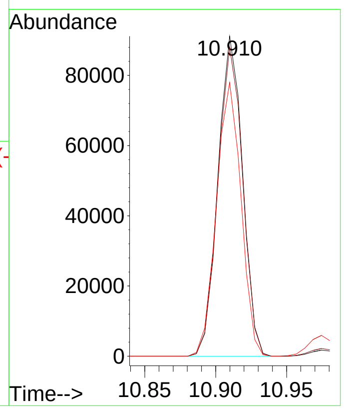
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

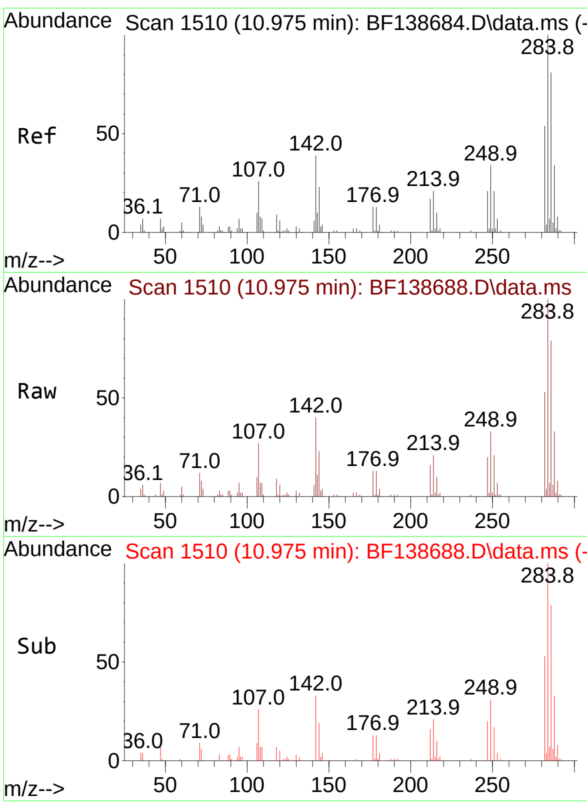


#67
4-Bromophenyl-phenylether
Concen: 40.390 ng
RT: 10.910 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:248 Resp: 110219

Ion	Ratio	Lower	Upper
248	100		
250	96.6	77.7	116.5
141	85.6	68.0	102.0

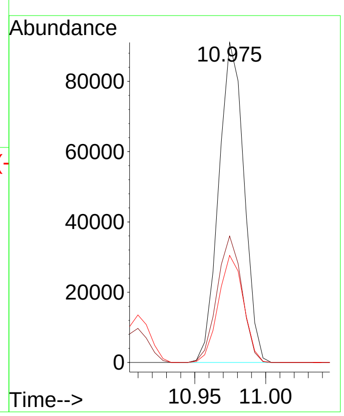




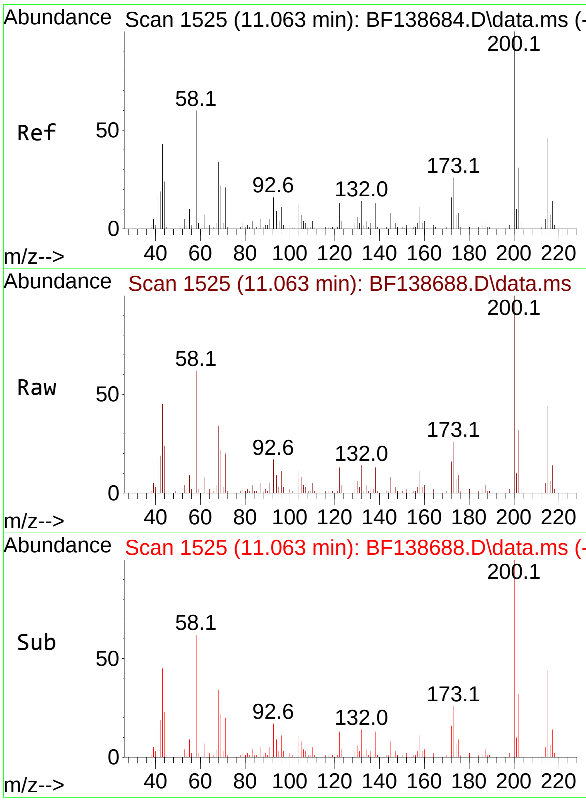
#68
Hexachlorobenzene
Concen: 40.147 ng
RT: 10.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:284 Resp: 113117

Ion	Ratio	Lower	Upper
284	100		
142	39.5	31.3	46.9
249	33.5	27.2	40.8



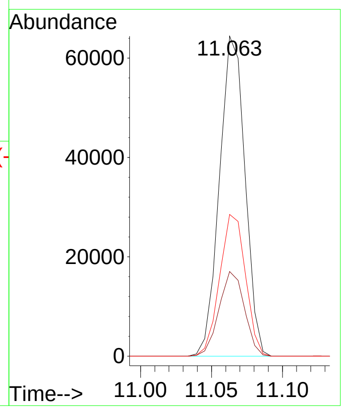
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

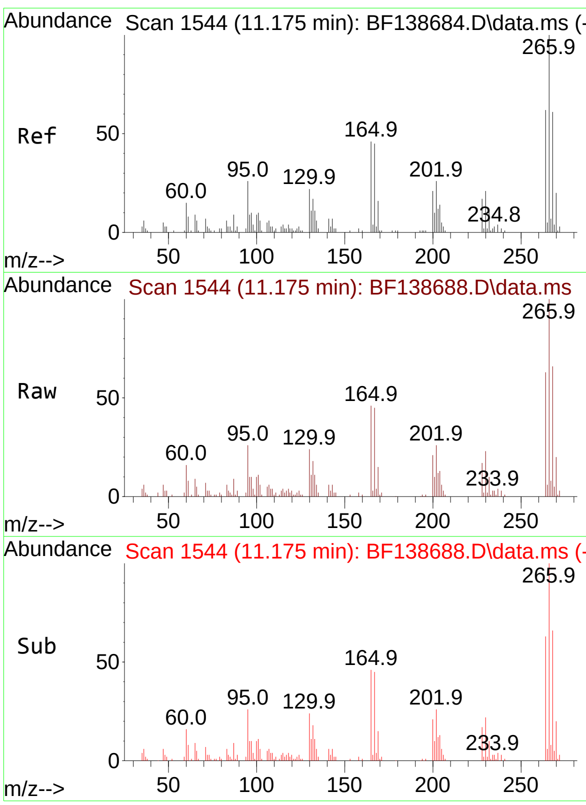


#69
Atrazine
Concen: 39.654 ng
RT: 11.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:200 Resp: 80604

Ion	Ratio	Lower	Upper
200	100		
173	26.5	6.0	46.0
215	44.3	26.1	66.1

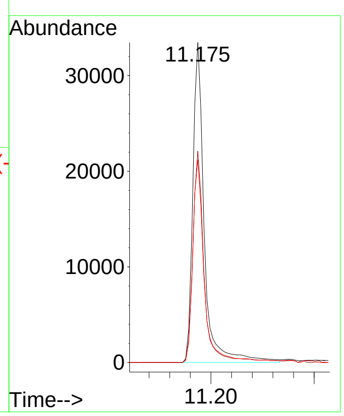




#70
Pentachlorophenol
Concen: 40.788 ng
RT: 11.175 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

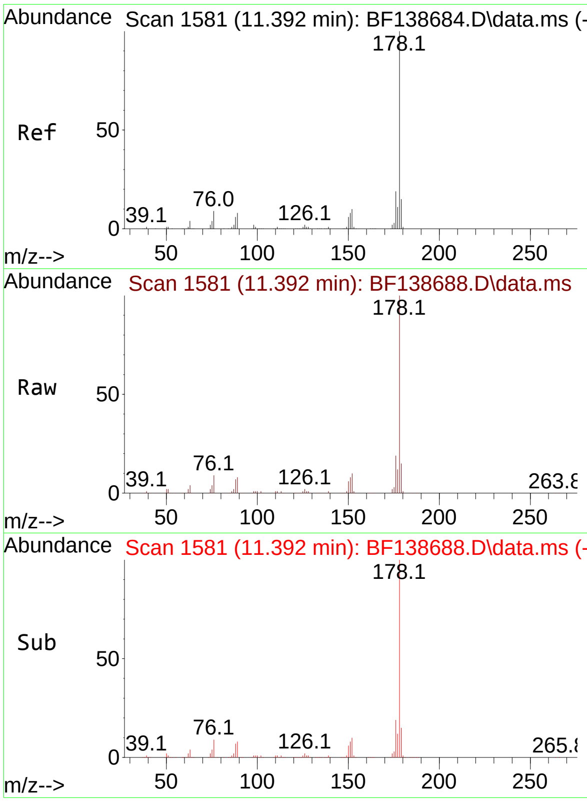
Tgt Ion:266 Resp: 51801

Ion	Ratio	Lower	Upper
266	100		
268	66.0	49.2	73.8
264	63.4	49.8	74.6



ICAL Form

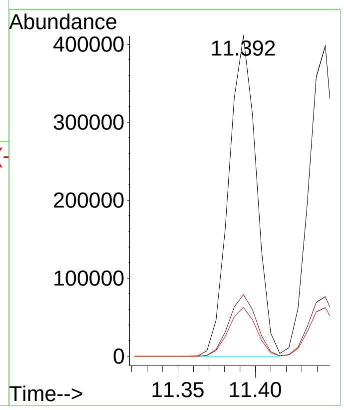
Instrument : BNA_F
ClientSampleId : ICVBF073024

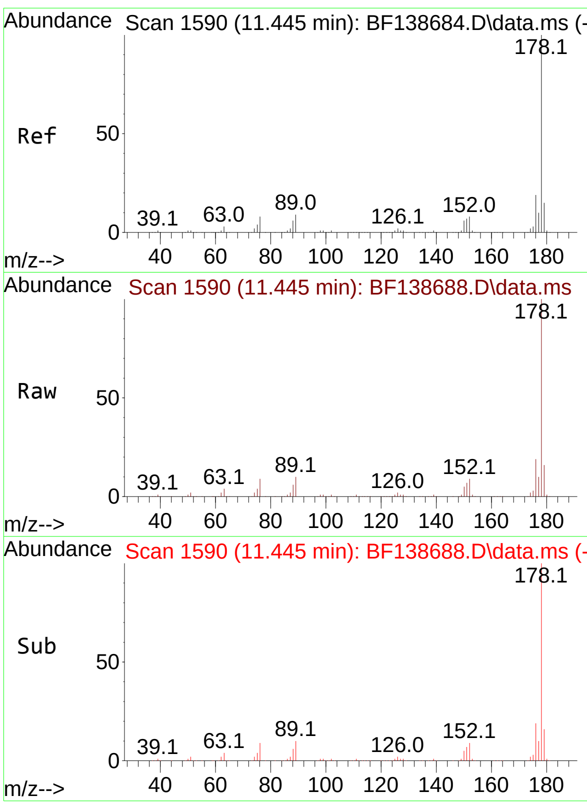


#71
Phenanthrene
Concen: 39.036 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:178 Resp: 506626

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.3	12.2	18.2

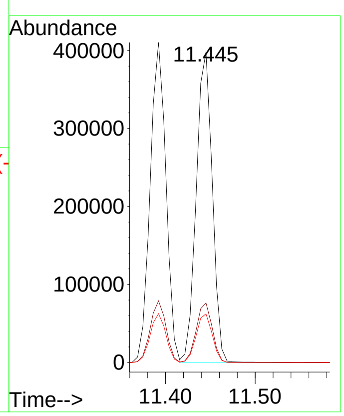




#72
Anthracene
Concen: 38.817 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

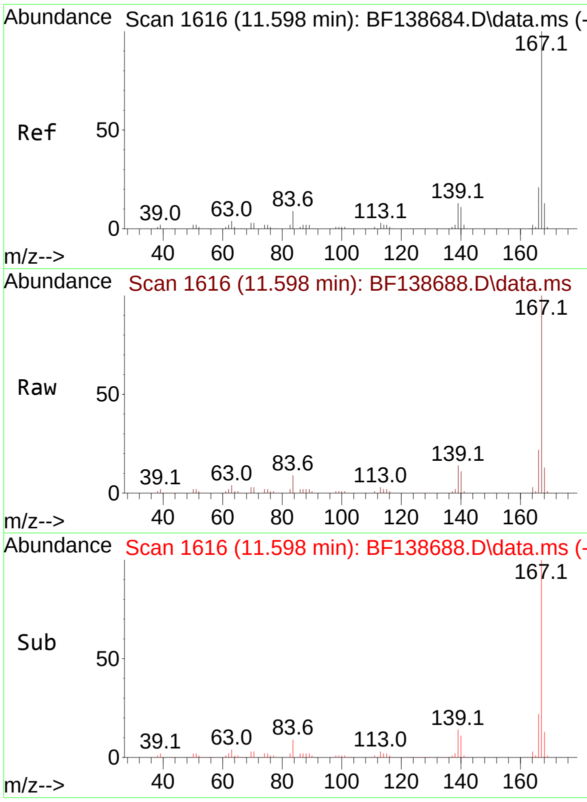
Tgt Ion:178 Resp: 496297

Ion	Ratio	Lower	Upper
178	100		
176	19.2	14.9	22.3
179	15.7	12.4	18.6



ICAL Form

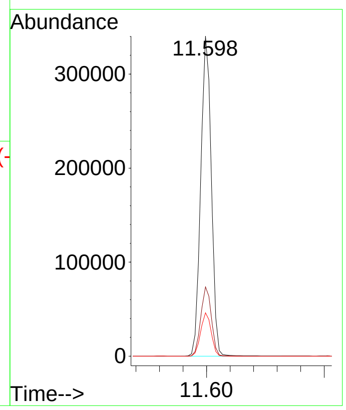
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

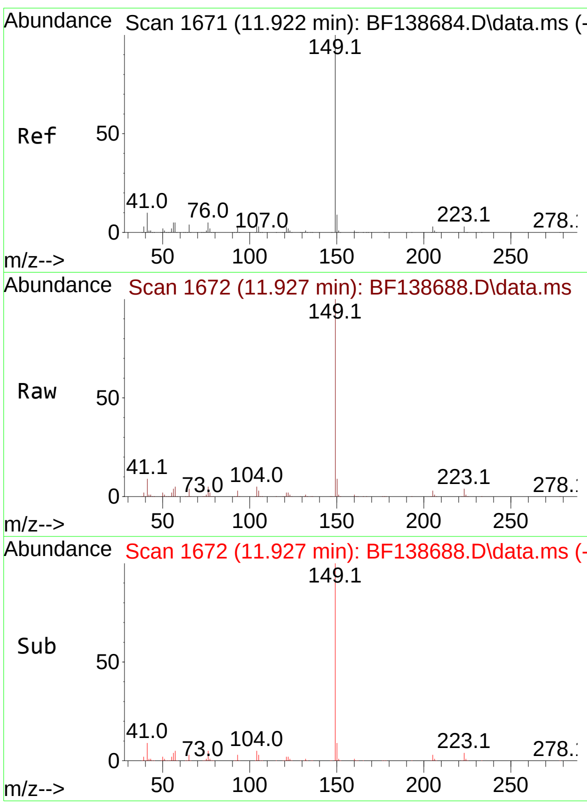


#73
Carbazole
Concen: 38.546 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:167 Resp: 425187

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.2	25.8
139	13.6	10.6	16.0

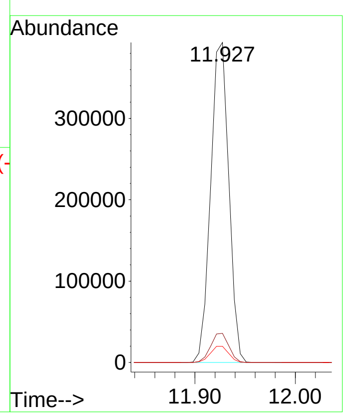




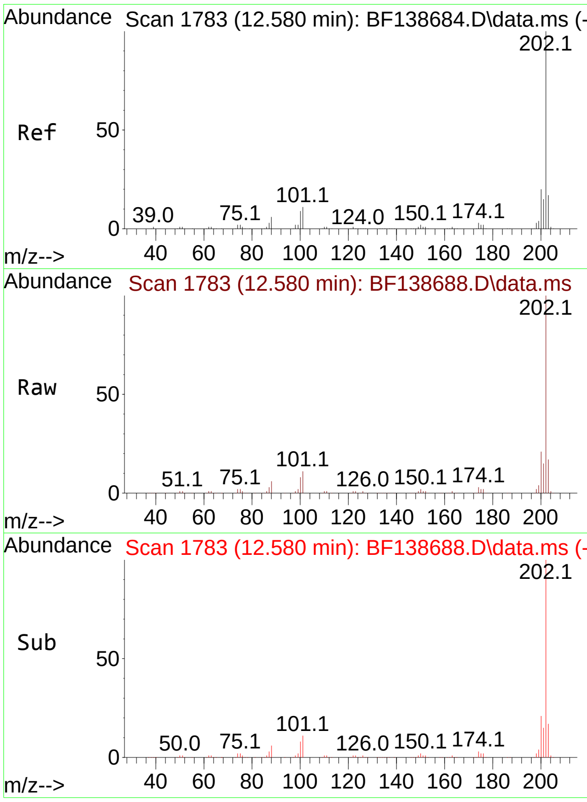
#74
Di-n-butylphthalate
Concen: 40.010 ng
RT: 11.927 min Scan# 1672
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:149 Resp: 496140

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.0	4.1	6.1



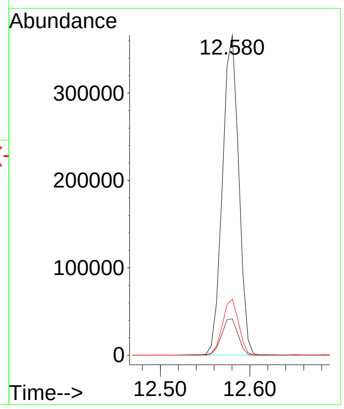
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

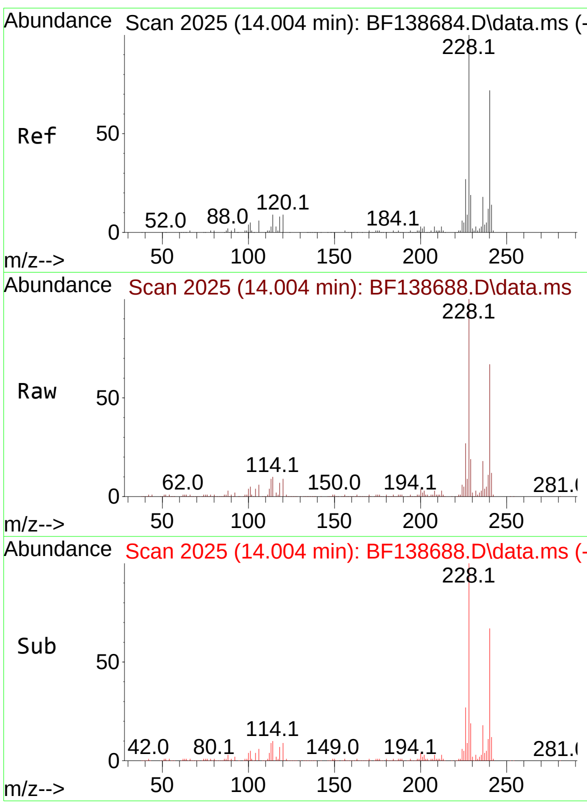


#75
Fluoranthene
Concen: 38.250 ng
RT: 12.580 min   Scan# 1
Delta R.T.   0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

Tgt Ion:202 Resp: 463445

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	31.2
203	17.5	0.0	37.3

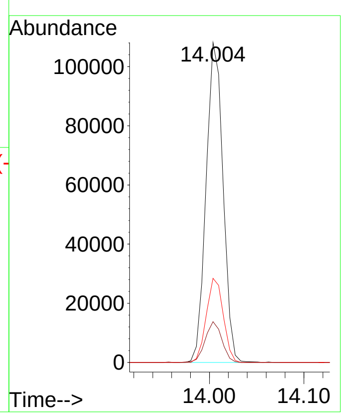




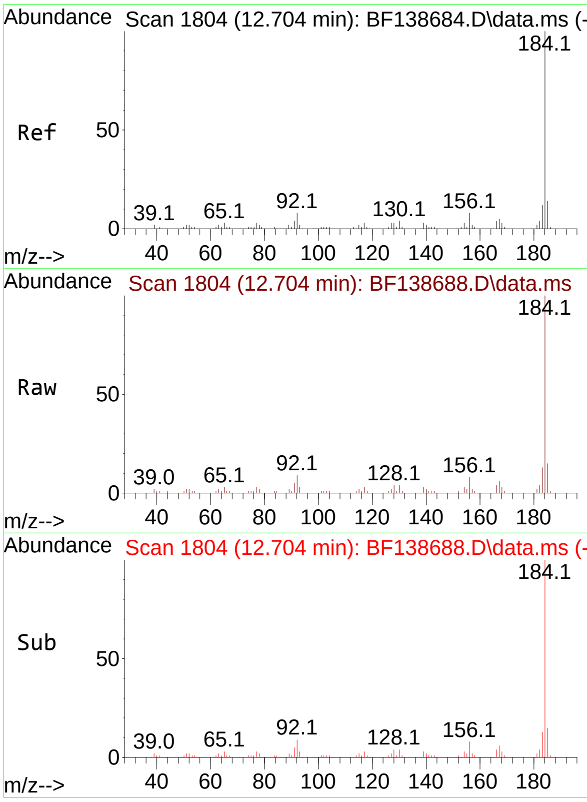
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min   Scan# 2025
Delta R.T.   0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

Tgt Ion:240 Resp: 134464

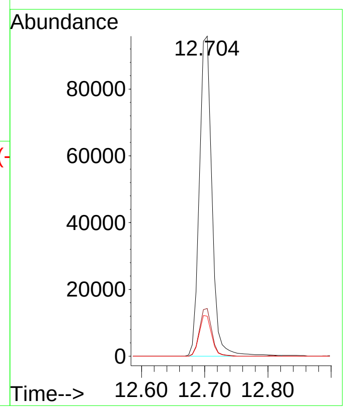
Ion	Ratio	Lower	Upper
240	100		
120	12.7	10.2	15.4
236	26.3	19.8	29.8

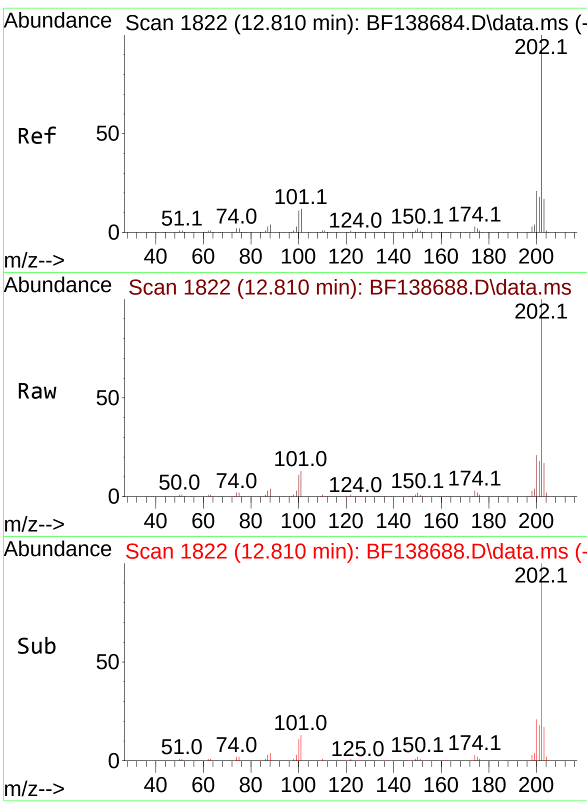


Instrument :
BNA_F
ClientSampleId :
ICVBF073024

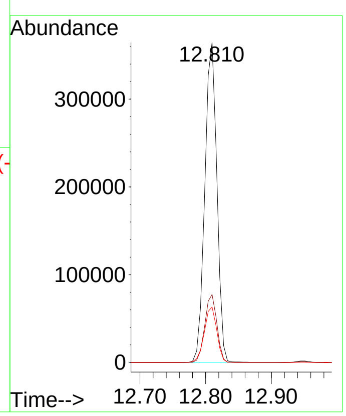



```
#77
Benzidine
Concen:   41.166 ng
RT:  12.704 min  Scan# 1
Delta R.T.   -0.000 min
Lab File:   BF138688.D
Acq: 30 Jul 2024  17:55

Tgt Ion:184 Resp:  132396
Ion  Ratio  Lower  Upper
184  100
185   14.9   11.1   16.7
183   12.5    9.6   14.4
```

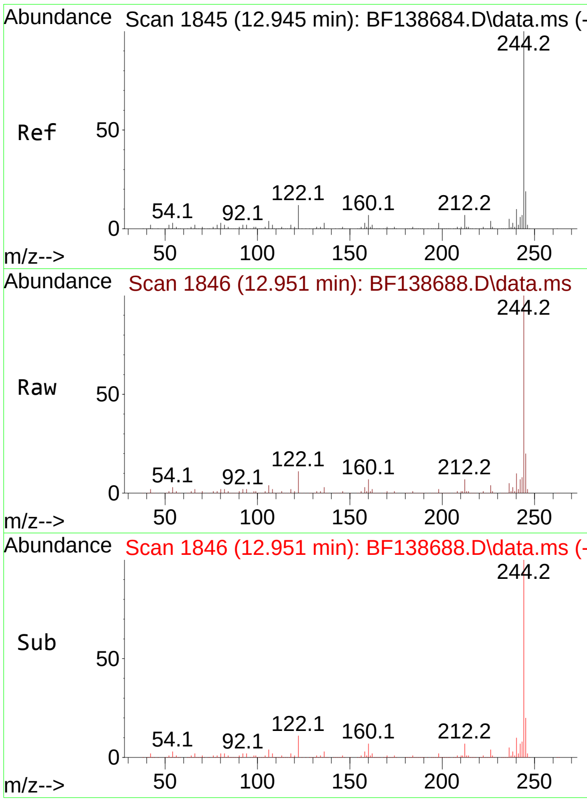





```
#78
Pyrene
Concen:   36.907 ng
RT:  12.810 min  Scan# 1822
Delta R.T.   0.000 min
Lab File:   BF138688.D
Acq: 30 Jul 2024  17:55

Tgt Ion:202 Resp:  467254
Ion  Ratio  Lower  Upper
202  100
200   21.3   16.8   25.2
203   17.3   13.8   20.6
```



ICAL Form

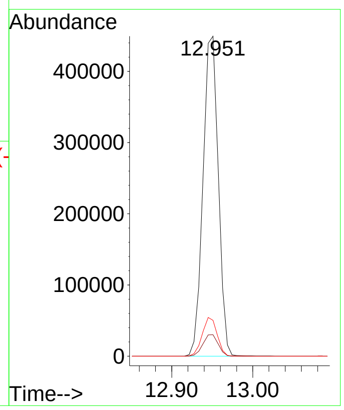


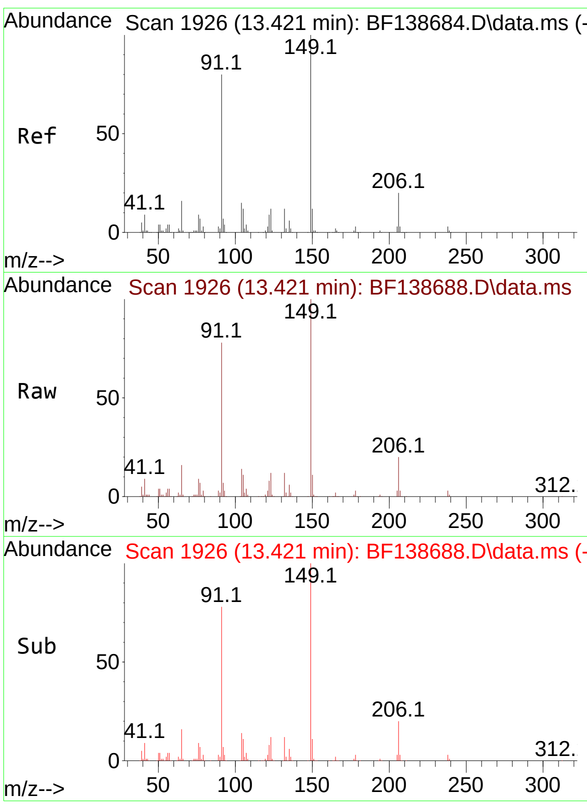
#79
Terphenyl-d14
Concen: 73.396 ng
RT: 12.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Tgt Ion:244 Resp: 589459

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.2
122	11.2	9.6	14.4

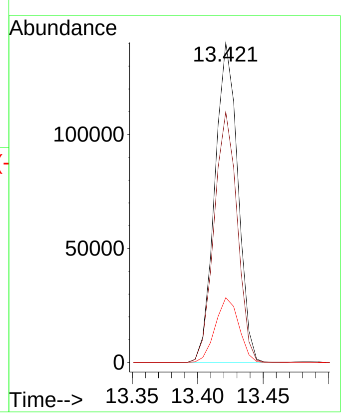




#80
Butylbenzylphthalate
Concen: 42.425 ng
RT: 13.421 min Scan# 1926
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

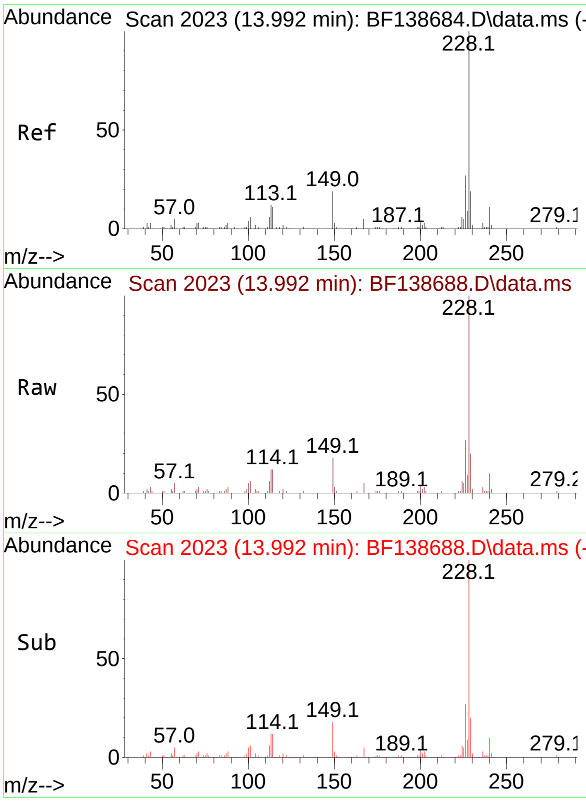
Tgt Ion:149 Resp: 171996

Ion	Ratio	Lower	Upper
149	100		
91	78.3	63.7	95.5
206	20.3	16.2	24.2



ICAL Form

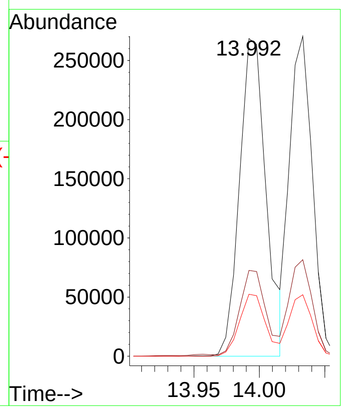
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

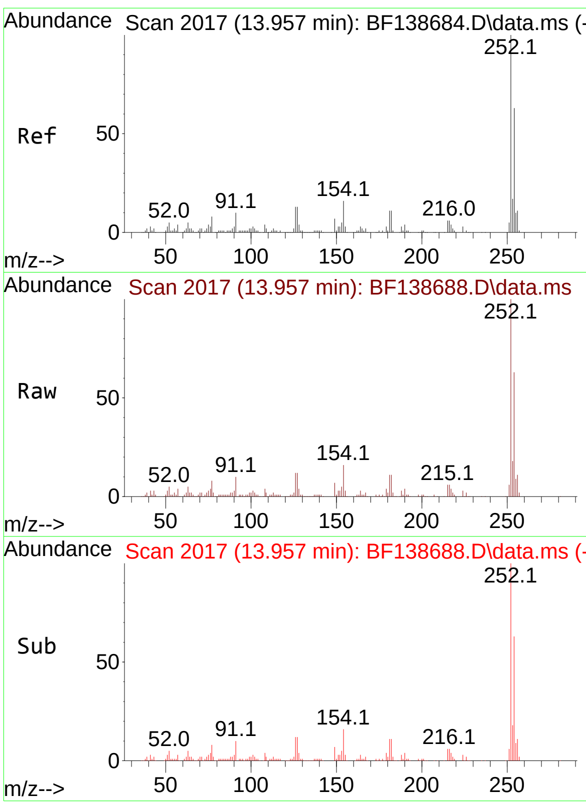


#81
Benzo(a)anthracene
Concen: 40.994 ng
RT: 13.992 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:228 Resp: 379585

Ion	Ratio	Lower	Upper
228	100		
226	27.0	22.1	33.1
229	19.5	15.4	23.0

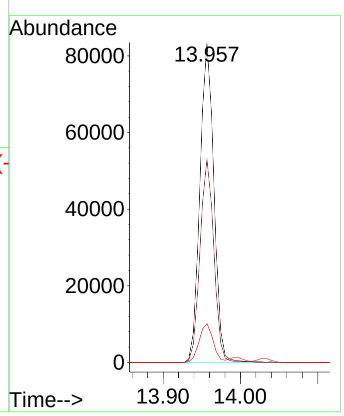




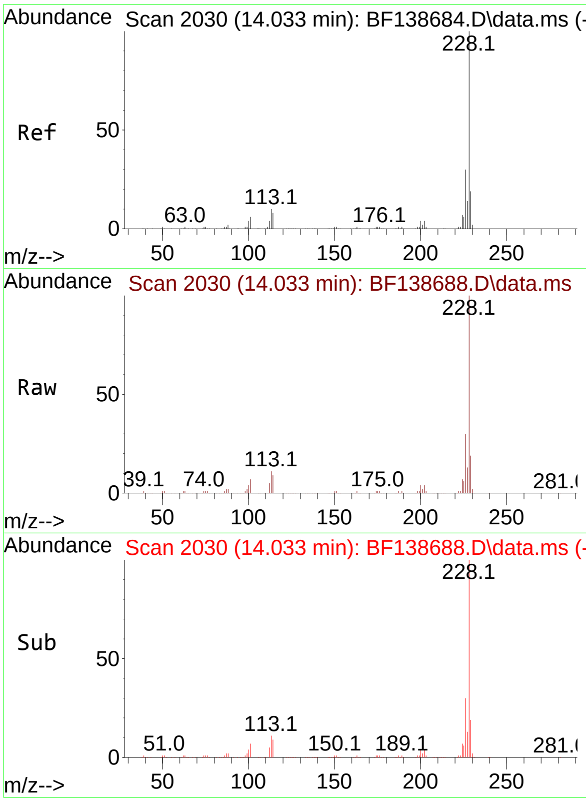
#82
3,3'-Dichlorobenzidine
Concen: 44.160 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:252 Resp: 104638

Ion	Ratio	Lower	Upper
252	100		
254	63.5	50.8	76.2
126	12.1	10.2	15.2



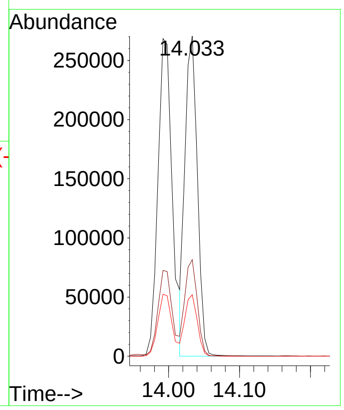
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

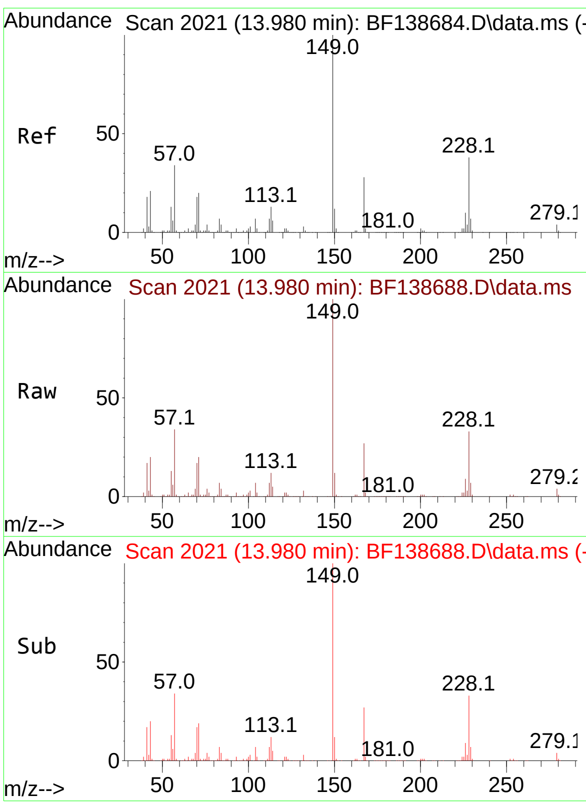


#83
Chrysene
Concen: 39.308 ng
RT: 14.033 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:228 Resp: 328373

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.7	35.5
229	19.2	15.0	22.6

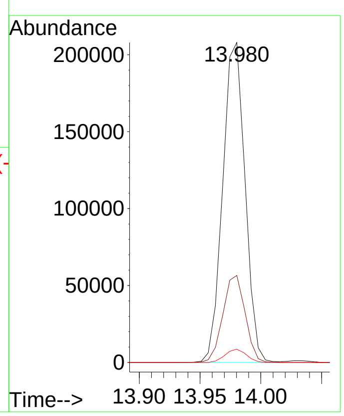




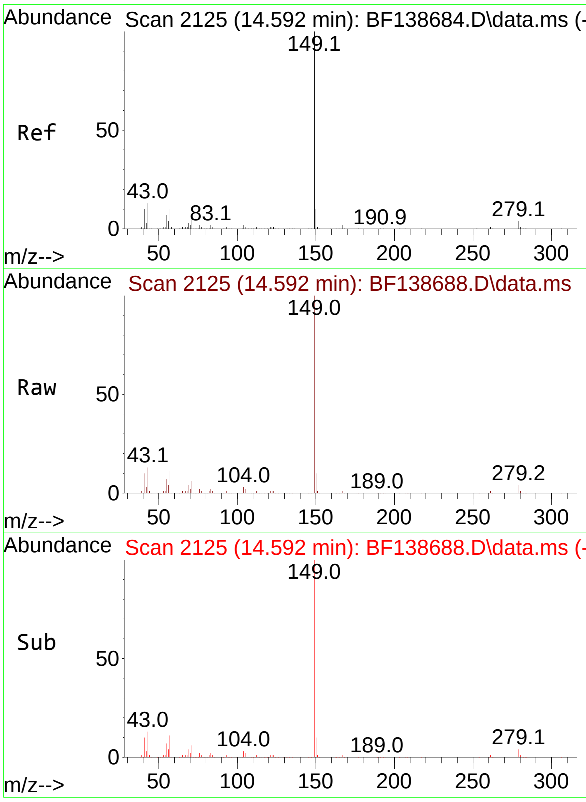
#84
Bis(2-ethylhexyl)phthalate
Concen: 44.921 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:149 Resp: 266678

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.2	33.4
279	4.2	3.4	5.0



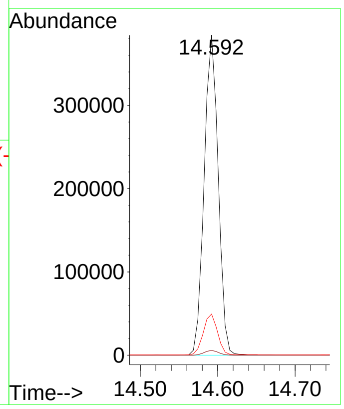
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

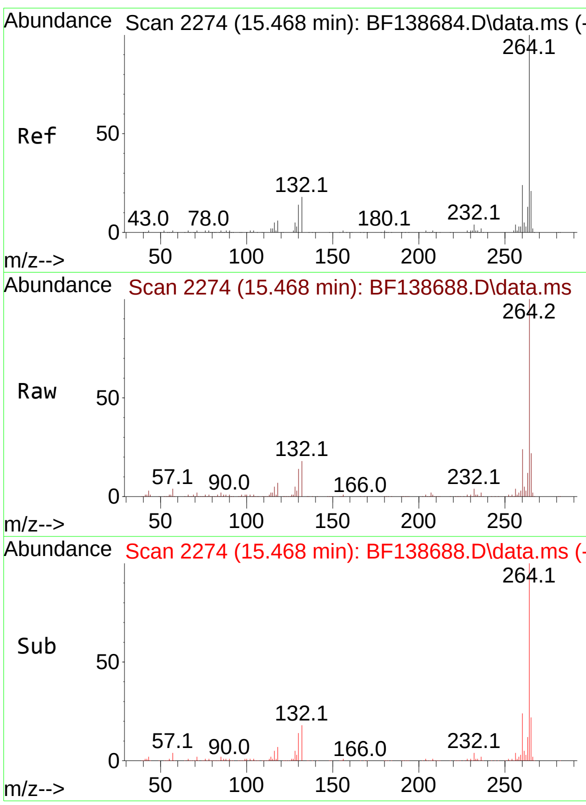


#85
Di-n-octyl phthalate
Concen: 44.183 ng
RT: 14.592 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:149 Resp: 485296

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.4	2.0
43	13.0	10.4	15.6

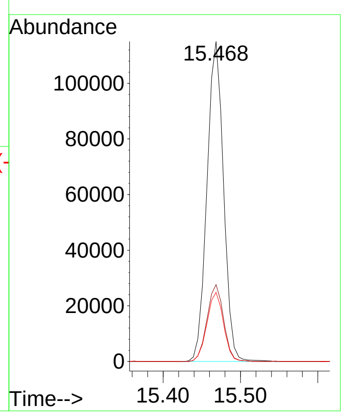




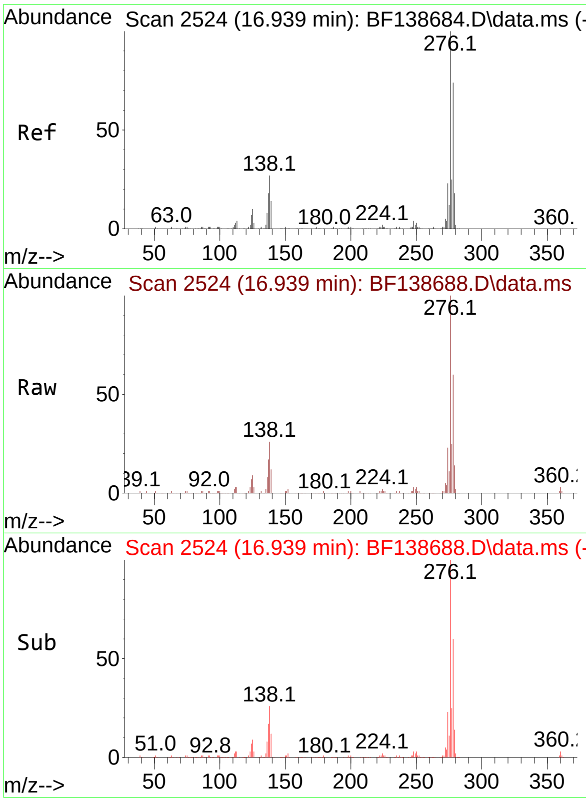
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:264 Resp: 171097

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.0	28.6
265	21.6	17.0	25.6



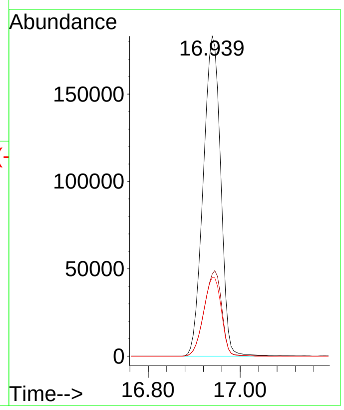
Instrument : BNA_F
ClientSampleId : ICVBF073024

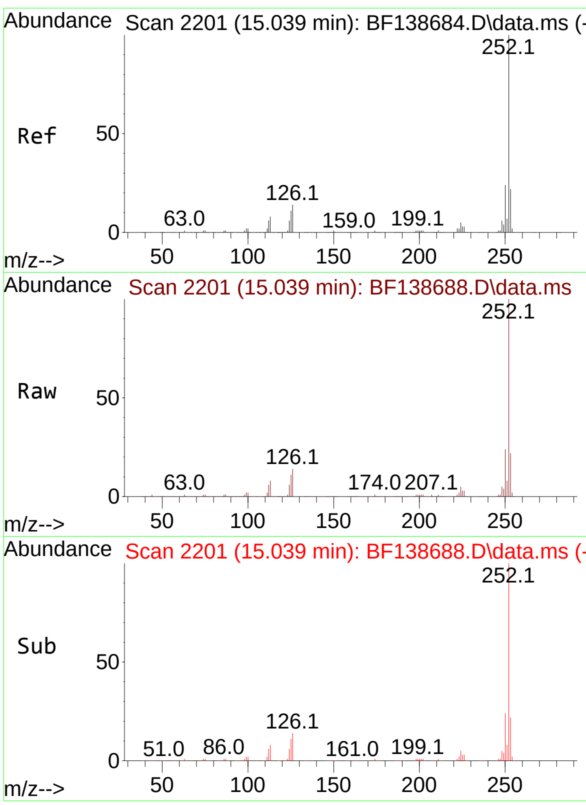


#87
Indeno(1,2,3-cd)pyrene
Concen: 39.463 ng
RT: 16.939 min   Scan# 2
Delta R.T.   0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

Tgt Ion:276 Resp: 483878

Ion	Ratio	Lower	Upper
276	100		
138	26.8	21.8	32.8
277	25.2	20.6	30.8

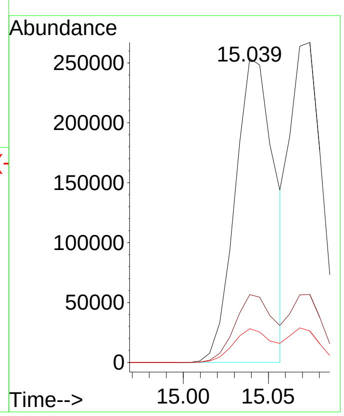




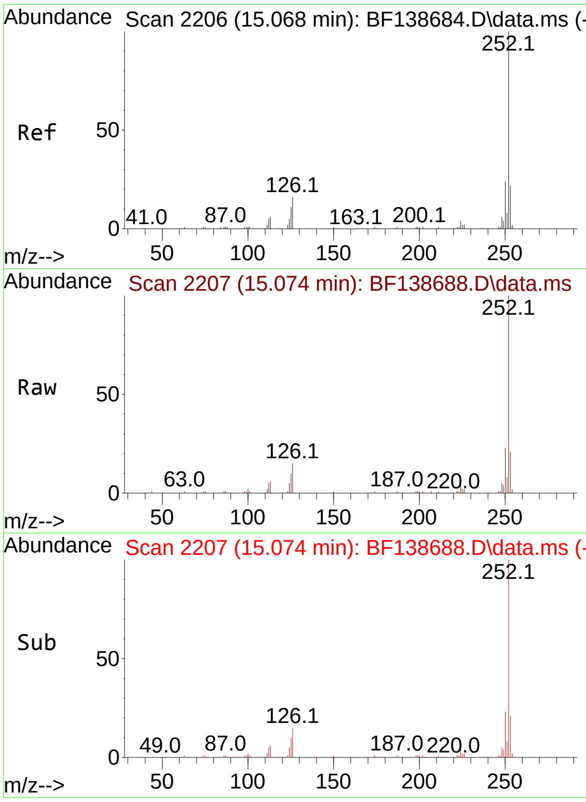
#88
Benzo(b)fluoranthene
Concen: 38.172 ng
RT: 15.039 min   Scan# 2201
Delta R.T.   0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024   17:55

Tgt Ion:252 Resp: 404868

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	11.1	8.9	13.3



ICAL Form

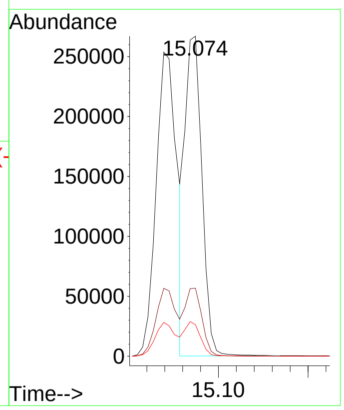


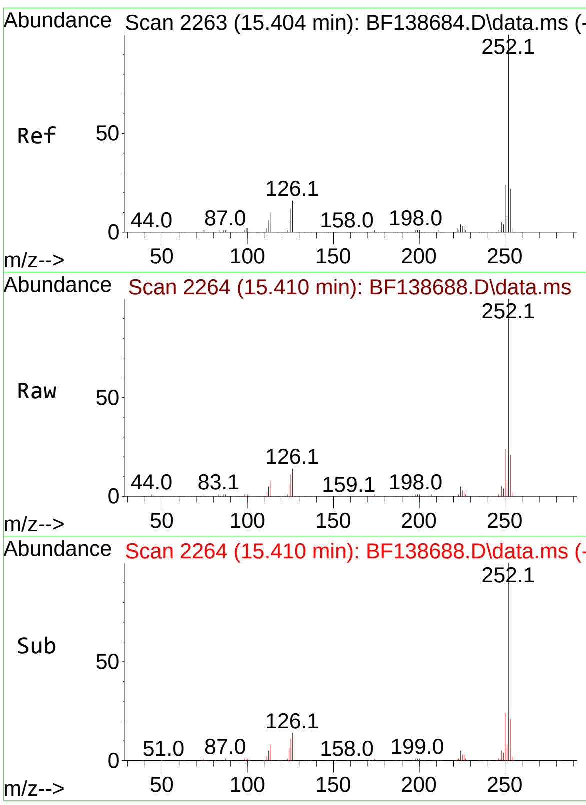
#89
Benzo(k)fluoranthene
Concen: 38.430 ng
RT: 15.074 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Tgt Ion:252 Resp: 352910

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.4	26.0
125	9.9	8.6	13.0

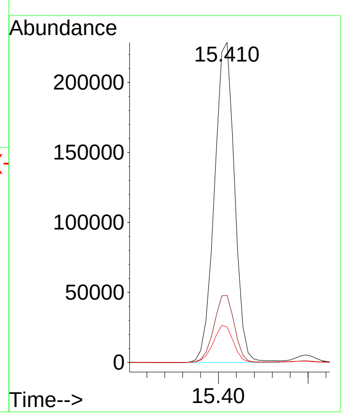




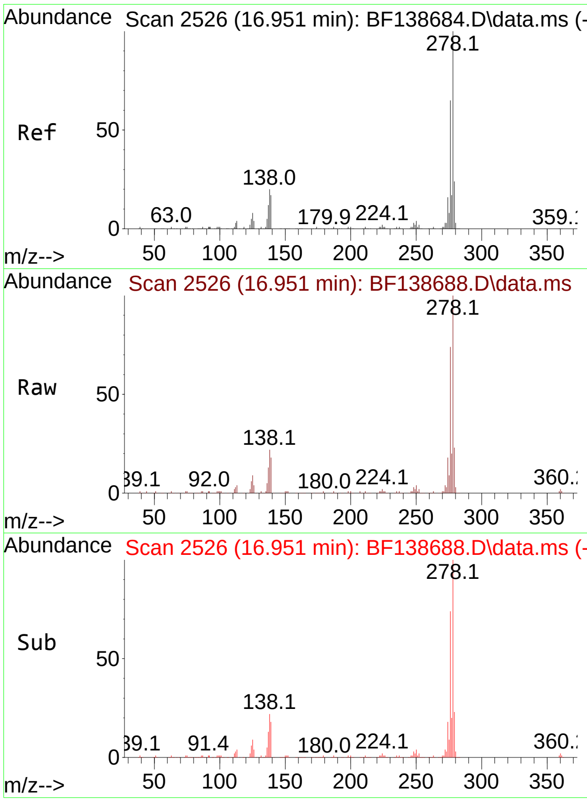
#90
Benzo(a)pyrene
Concen: 39.920 ng
RT: 15.410 min Scan# 2264
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:252 Resp: 356148

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.3	25.9
125	11.1	9.5	14.3



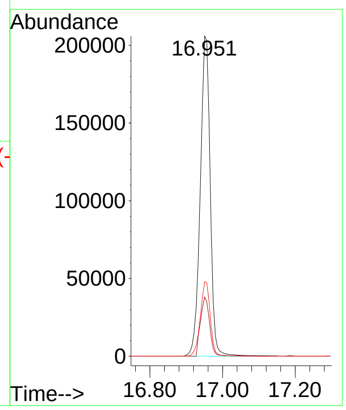
Instrument :
BNA_F
ClientSampleId :
ICVBF073024

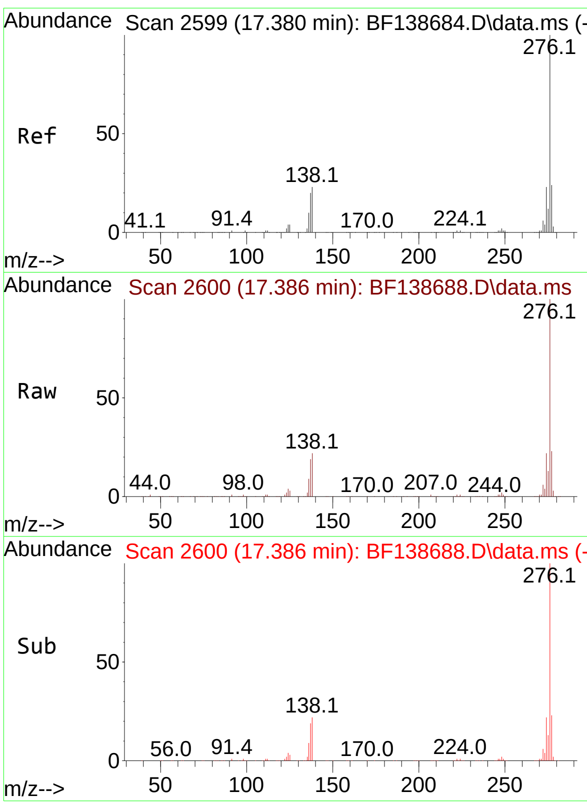


#91
Dibenzo(a,h)anthracene
Concen: 39.089 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:278 Resp: 393430

Ion	Ratio	Lower	Upper
278	100		
139	18.4	14.0	21.0
279	23.3	19.0	28.4

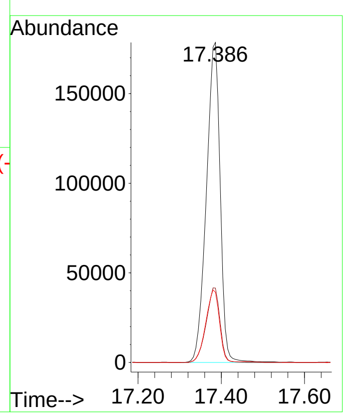




#92
Benzo(g,h,i)perylene
Concen: 39.457 ng
RT: 17.386 min Scan# 2600
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:276 Resp: 412115

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.4
138	22.0	18.5	27.7



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	113	0.00
2		1,4-Dioxane	0.567	0.565	0.4	111	0.00
3		Pyridine	1.374	1.390	-1.2	113	0.00
4		n-Nitrosodimethylamine	0.818	0.806	1.5	112	0.01
5	S	2-Fluorophenol	1.296	1.266	2.3	112	0.00
6		Aniline	1.551	1.559	-0.5	115	0.00
7	S	Phenol-d6	1.740	1.687	3.0	113	0.00
8		2-Chlorophenol	1.363	1.326	2.7	113	0.00
9		Benzaldehyde	1.043	0.988	5.3	123	0.00
10	C	Phenol	1.832	1.753	4.3	111	0.00
11		bis(2-Chloroethyl)ether	1.409	1.354	3.9	112	0.00
12		1,3-Dichlorobenzene	1.526	1.476	3.3	113	0.00
13	C	1,4-Dichlorobenzene	1.540	1.489	3.3	112	0.00
14		1,2-Dichlorobenzene	1.439	1.385	3.8	111	0.00
15		Benzyl Alcohol	1.254	1.226	2.2	114	0.00
16		2,2'-oxybis(1-Chloropropane	2.426	2.312	4.7	111	0.00
17		2-Methylphenol	1.126	1.088	3.4	111	0.00
18		Hexachloroethane	0.580	0.571	1.6	113	0.00
19	P	n-Nitroso-di-n-propylamine	1.051	0.983	6.5	112	0.00
20		3+4-Methylphenols	1.444	1.352	6.4	112	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	112	0.00
22		Acetophenone	0.490	0.479	2.2	112	0.00
23	S	Nitrobenzene-d5	0.409	0.411	-0.5	114	0.00
24		Nitrobenzene	0.416	0.415	0.2	112	0.00
25		Isophorone	0.699	0.686	1.9	113	0.00
26	C	2-Nitrophenol	0.179	0.182	-1.7	111	0.00
27		2,4-Dimethylphenol	0.214	0.216	-0.9	113	0.00
28		bis(2-Chloroethoxy)methane	0.425	0.421	0.9	113	0.00
29	C	2,4-Dichlorophenol	0.275	0.279	-1.5	114	0.00
30		1,2,4-Trichlorobenzene	0.318	0.315	0.9	112	0.00
31		Naphthalene	1.053	1.033	1.9	111	0.00
32		Benzoic acid	0.168	0.175	-4.2	118	0.01
33		4-Chloroaniline	0.353	0.354	-0.3	115	0.00
34	C	Hexachlorobutadiene	0.192	0.196	-2.1	116	0.00
35		Caprolactam	0.082	0.079	3.7	113	0.00
36	C	4-Chloro-3-methylphenol	0.315	0.308	2.2	113	0.00
37		2-Methylnaphthalene	0.665	0.646	2.9	112	0.00
38		1-Methylnaphthalene	0.652	0.630	3.4	111	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	112	0.00
40		1,2,4,5-Tetrachlorobenzene	0.556	0.563	-1.3	114	0.00
41	P	Hexachlorocyclopentadiene	0.120	0.142	-18.3	125	0.00
42	S	2,4,6-Tribromophenol	0.164	0.159	3.0	111	0.00
43	C	2,4,6-Trichlorophenol	0.339	0.342	-0.9	114	0.00
44		2,4,5-Trichlorophenol	0.370	0.380	-2.7	115	0.00
45	S	2-Fluorobiphenyl	1.331	1.306	1.9	112	0.00
46		1,1'-Biphenyl	1.566	1.572	-0.4	114	0.00
47		2-Chloronaphthalene	1.165	1.164	0.1	113	0.00

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	0.395	0.390	1.3	112	0.00
49		Acenaphthylene	1.652	1.632	1.2	111	0.00
50		Dimethylphthalate	1.279	1.230	3.8	112	0.00
51		2,6-Dinitrotoluene	0.289	0.288	0.3	112	0.00
52	C	Acenaphthene	1.111	1.096	1.4	113	0.00
53		3-Nitroaniline	0.298	0.286	4.0	111	0.00
54	P	2,4-Dinitrophenol	0.133	0.130	2.3	114	0.00
55		Dibenzofuran	1.568	1.529	2.5	113	0.00
56	P	4-Nitrophenol	0.179	0.176	1.7	113	0.00
57		2,4-Dinitrotoluene	0.368	0.356	3.3	110	0.00
58		Fluorene	1.249	1.207	3.4	112	0.00
59		2,3,4,6-Tetrachlorophenol	0.283	0.274	3.2	112	0.00
60		Diethylphthalate	1.213	1.165	4.0	113	0.00
61		4-Chlorophenyl-phenylether	0.614	0.600	2.3	114	0.00
62		4-Nitroaniline	0.284	0.273	3.9	112	0.00
63		Azobenzene	1.345	1.299	3.4	112	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00
65		4,6-Dinitro-2-methylphenol	0.122	0.126	-3.3	112	0.00
66	c	n-Nitrosodiphenylamine	0.625	0.634	-1.4	111	0.00
67		4-Bromophenyl-phenylether	0.217	0.219	-0.9	112	0.00
68		Hexachlorobenzene	0.224	0.224	0.0	113	0.00
69		Atrazine	0.161	0.160	0.6	109	0.00
70	C	Pentachlorophenol	0.101	0.103	-2.0	111	0.00
71		Phenanthrene	1.030	1.005	2.4	109	0.00
72		Anthracene	1.015	0.985	3.0	109	0.00
73		Carbazole	0.875	0.843	3.7	107	0.00
74		Di-n-butylphthalate	0.984	0.984	0.0	110	0.00
75	C	Fluoranthene	0.961	0.919	4.4	106	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	107	0.00
77		Benzidine	0.478	0.492	-2.9	98	0.00
78		Pyrene	1.883	1.737	7.8	106	0.00
79	S	Terphenyl-d14	1.195	1.096	8.3	106	0.00
80		Butylbenzylphthalate	0.603	0.640	-6.1	109	0.00
81		Benzo(a)anthracene	1.377	1.411	-2.5	108	0.00
82		3,3'-Dichlorobenzidine	0.352	0.389	-10.5	116	0.00
83		Chrysene	1.243	1.221	1.8	107	0.00
84		Bis(2-ethylhexyl)phthalate	0.883	0.992	-12.3	112	0.00
85	c	Di-n-octyl phthalate	1.634	1.805	-10.5	111	0.00
86	I	Perylene-d12	1.000	1.000	0.0	113	0.00
87		Indeno(1,2,3-cd)pyrene	1.433	1.414	1.3	114	0.00
88		Benzo(b)fluoranthene	1.240	1.183	4.6	109	0.00
89		Benzo(k)fluoranthene	1.073	1.031	3.9	116	0.00
90	C	Benzo(a)pyrene	1.043	1.041	0.2	115	0.00
91		Dibenzo(a,h)anthracene	1.177	1.150	2.3	115	0.00
92		Benzo(g,h,i)perylene	1.221	1.204	1.4	113	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	113	0.00
2		1,4-Dioxane	40.000	39.808	0.5	111	0.00
3		Pyridine	40.000	40.463	-1.2	113	0.00
4		n-Nitrosodimethylamine	40.000	39.391	1.5	112	0.01
5	S	2-Fluorophenol	80.000	78.171	2.3	112	0.00
6		Aniline	40.000	40.197	-0.5	115	0.00
7	S	Phenol-d6	80.000	77.578	3.0	113	0.00
8		2-Chlorophenol	40.000	38.895	2.8	113	0.00
9		Benzaldehyde	40.000	37.898	5.3	123	0.00
10	C	Phenol	40.000	38.277	4.3	111	0.00
11		bis(2-Chloroethyl)ether	40.000	38.433	3.9	112	0.00
12		1,3-Dichlorobenzene	40.000	38.692	3.3	113	0.00
13	C	1,4-Dichlorobenzene	40.000	38.668	3.3	112	0.00
14		1,2-Dichlorobenzene	40.000	38.492	3.8	111	0.00
15		Benzyl Alcohol	40.000	39.118	2.2	114	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.127	4.7	111	0.00
17		2-Methylphenol	40.000	38.649	3.4	111	0.00
18		Hexachloroethane	40.000	39.384	1.5	113	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.442	6.4	112	0.00
20		3+4-Methylphenols	40.000	37.436	6.4	112	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	112	0.00
22		Acetophenone	40.000	39.095	2.3	112	0.00
23	S	Nitrobenzene-d5	80.000	80.424	-0.5	114	0.00
24		Nitrobenzene	40.000	39.882	0.3	112	0.00
25		Isophorone	40.000	39.275	1.8	113	0.00
26	C	2-Nitrophenol	40.000	40.668	-1.7	111	0.00
27		2,4-Dimethylphenol	40.000	40.231	-0.6	113	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.557	1.1	113	0.00
29	C	2,4-Dichlorophenol	40.000	40.567	-1.4	114	0.00
30		1,2,4-Trichlorobenzene	40.000	39.651	0.9	112	0.00
31		Naphthalene	40.000	39.232	1.9	111	0.00
32		Benzoic acid	40.000	41.481	-3.7	118	0.01
33		4-Chloroaniline	40.000	40.067	-0.2	115	0.00
34	C	Hexachlorobutadiene	40.000	40.772	-1.9	116	0.00
35		Caprolactam	40.000	38.365	4.1	113	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.164	2.1	113	0.00
37		2-Methylnaphthalene	40.000	38.836	2.9	112	0.00
38		1-Methylnaphthalene	40.000	38.666	3.3	111	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	112	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.554	-1.4	114	0.00
41	P	Hexachlorocyclopentadiene	40.000	42.278	-5.7	125	0.00
42	S	2,4,6-Tribromophenol	80.000	77.401	3.2	111	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.384	-1.0	114	0.00
44		2,4,5-Trichlorophenol	40.000	41.011	-2.5	115	0.00
45	S	2-Fluorobiphenyl	80.000	78.500	1.9	112	0.00
46		1,1'-Biphenyl	40.000	40.156	-0.4	114	0.00
47		2-Chloronaphthalene	40.000	39.966	0.1	113	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	39.505	1.2	112	0.00
49	Acenaphthylene	40.000	39.504	1.2	111	0.00
50	Dimethylphthalate	40.000	38.458	3.9	112	0.00
51	2,6-Dinitrotoluene	40.000	39.895	0.3	112	0.00
52 C	Acenaphthene	40.000	39.456	1.4	113	0.00
53	3-Nitroaniline	40.000	38.306	4.2	111	0.00
54 P	2,4-Dinitrophenol	40.000	39.106	2.2	114	0.00
55	Dibenzofuran	40.000	38.997	2.5	113	0.00
56 P	4-Nitrophenol	40.000	39.336	1.7	113	0.00
57	2,4-Dinitrotoluene	40.000	38.673	3.3	110	0.00
58	Fluorene	40.000	38.661	3.3	112	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	38.680	3.3	112	0.00
60	Diethylphthalate	40.000	38.447	3.9	113	0.00
61	4-Chlorophenyl-phenylether	40.000	39.091	2.3	114	0.00
62	4-Nitroaniline	40.000	38.525	3.7	112	0.00
63	Azobenzene	40.000	38.622	3.4	112	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	111	0.00
65	4,6-Dinitro-2-methylphenol	40.000	41.323	-3.3	112	0.00
66 c	n-Nitrosodiphenylamine	40.000	40.561	-1.4	111	0.00
67	4-Bromophenyl-phenylether	40.000	40.390	-1.0	112	0.00
68	Hexachlorobenzene	40.000	40.147	-0.4	113	0.00
69	Atrazine	40.000	39.654	0.9	109	0.00
70 C	Pentachlorophenol	40.000	40.788	-2.0	111	0.00
71	Phenanthrene	40.000	39.036	2.4	109	0.00
72	Anthracene	40.000	38.817	3.0	109	0.00
73	Carbazole	40.000	38.546	3.6	107	0.00
74	Di-n-butylphthalate	40.000	40.010	-0.0	110	0.00
75 C	Fluoranthene	40.000	38.250	4.4	106	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	107	0.00
77	Benzidine	40.000	41.166	-2.9	98	0.00
78	Pyrene	40.000	36.907	7.7	106	0.00
79 S	Terphenyl-d14	80.000	73.396	8.3	106	0.00
80	Butylbenzylphthalate	40.000	42.425	-6.1	109	0.00
81	Benzo(a)anthracene	40.000	40.994	-2.5	108	0.00
82	3,3'-Dichlorobenzidine	40.000	44.160	-10.4	116	0.00
83	Chrysene	40.000	39.308	1.7	107	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	44.921	-12.3	112	0.00
85 c	Di-n-octyl phthalate	40.000	44.183	-10.5	111	0.00
86 I	Perylene-d12	20.000	20.000	0.0	113	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	39.463	1.3	114	0.00
88	Benzo(b)fluoranthene	40.000	38.172	4.6	109	0.00
89	Benzo(k)fluoranthene	40.000	38.430	3.9	116	0.00
90 C	Benzo(a)pyrene	40.000	39.920	0.2	115	0.00
91	Dibenzo(a,h)anthracene	40.000	39.089	2.3	115	0.00
92	Benzo(g,h,i)perylene	40.000	39.457	1.4	113	0.00

ICAL Form

Instrument :
BNA_F
ClientSampleId :
ICVBF073024

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On    : 30 Jul 2024  17:55
Operator  : RC/JU
Sample    : SSTDICV040
Misc      :
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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
```

Raw Data: **BF138879.D**

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: JACO05

Lab Code: CHEM Case No.: P3467 SAS No.: P3467 SDG No.: P3467

Instrument ID: BNA_F Calibration Date/Time: 08/09/2024 09:48

Lab File ID: BF138879.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.374	1.192		-13.2	
2-Fluorophenol	1.296	1.253		-3.3	
Benzaldehyde	1.043	0.831		-20.3	
Phenol-d6	1.740	1.688		-3.0	
2-Methylphenol	1.126	1.087		-3.5	
Acetophenone	0.490	0.500		2.0	
3+4-Methylphenols	1.444	1.469		1.7	
Nitrobenzene-d5	0.409	0.415		1.5	
Nitrobenzene	0.416	0.419		0.7	
2,4-Dichlorophenol	0.275	0.284		3.3	20.0
Naphthalene	1.053	1.044		-0.9	
Hexachlorobutadiene	0.192	0.201		4.7	20.0
2-Methylnaphthalene	0.665	0.685		3.0	
2,4,6-Trichlorophenol	0.339	0.331		-2.4	20.0
2-Fluorobiphenyl	1.331	1.366		2.6	
2,4,5-Trichlorophenol	0.370	0.367		-0.8	
Acenaphthylene	1.652	1.623		-1.8	
Acenaphthene	1.111	1.081		-2.7	20.0
Dibenzofuran	1.568	1.578		0.6	
Fluorene	1.249	1.298		3.9	
2,4,6-Tribromophenol	0.164	0.175		6.7	
Hexachlorobenzene	0.224	0.225		0.4	
Pentachlorophenol	0.101	0.114		12.9	20.0
Phenanthrene	1.030	1.033		0.3	
Carbazole	0.875	0.907		3.7	
Di-n-butylphthalate	0.984	1.177		19.6	
Fluoranthene	0.961	1.015		5.6	20.0
Pyrene	1.883	2.164		14.9	
Terphenyl-d14	1.195	1.398		17.0	
Benzo(a)anthracene	1.377	1.353		-1.7	
Chrysene	1.243	1.242		-0.1	
Bis(2-ethylhexyl)phthalate	0.883	0.836		-5.3	
Benzo(b)fluoranthene	1.240	1.263		1.9	
Benzo(k)fluoranthene	1.073	1.156		7.7	
Benzo(a)pyrene	1.043	1.059		1.5	20.0
Indeno(1,2,3-cd)pyrene	1.433	1.357		-5.3	
Dibenzo(a,h)anthracene	1.177	1.120		-4.8	
Benzo(g,h,i)perylene	1.221	1.111		-9.0	
1,4-Dioxane	0.567	0.467		-17.6	20.0

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: JACO05

Lab Code: CHEM Case No.: P3467 SAS No.: P3467 SDG No.: P3467

Instrument ID: BNA_F Calibration Date/Time: 08/09/2024 09:48

Lab File ID: BF138879.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

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

COMPOUND	$\overline{RRF}$	RRF040	MIN RRF	%D	MAX%D
1-Methylnaphthalene	0.652	0.663		1.7	

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BF138879.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.845	152	65310	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	265298	20.000	ng		0.00
39) Acenaphthene-d10	9.880	164	151080	20.000	ng		0.00
64) Phenanthrene-d10	11.363	188	254940	20.000	ng		0.00
76) Chrysene-d12	14.004	240	120643	20.000	ng	#	0.00
86) Perylene-d12	15.462	264	111360	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.469	112	327221	77.341	ng		0.00
7) Phenol-d6	6.492	99	441036	77.642	ng		0.00
23) Nitrobenzene-d5	7.416	82	440205	81.125	ng		0.00
42) 2,4,6-Tribromophenol	10.674	330	105999	85.652	ng		0.00
45) 2-Fluorobiphenyl	9.198	172	825374	82.084	ng		0.00
79) Terphenyl-d14	12.945	244	674631	93.624	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.599	88	61050	32.959	ng		96
3) Pyridine	3.357	79	155693	34.698	ng		97
4) n-Nitrosodimethylamine	3.334	42	110982	41.529	ng		85
6) Aniline	6.510	93	195305	38.553	ng	#	42
8) 2-Chlorophenol	6.634	128	177941	39.975	ng		99
9) Benzaldehyde	6.398	77	108515	31.868	ng		100
10) Phenol	6.510	94	230807	38.591	ng		78
11) bis(2-Chloroethyl)ether	6.587	93	172259	37.428	ng		98
12) 1,3-Dichlorobenzene	6.787	146	195964	39.328	ng		99
13) 1,4-Dichlorobenzene	6.863	146	198050	39.385	ng		99
14) 1,2-Dichlorobenzene	7.016	146	191541	40.758	ng		100
15) Benzyl Alcohol	6.992	79	174054	42.513	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.116	45	278655	35.181	ng		54
17) 2-Methylphenol	7.110	107	142043	38.644	ng	#	89
18) Hexachloroethane	7.351	117	76517	40.424	ng		98
19) n-Nitroso-di-n-propyla...	7.263	70	141939	41.371	ng		98
20) 3+4-Methylphenols	7.263	107	191899	40.691	ng	#	90
22) Acetophenone	7.257	105	265553	40.881	ng	#	98
24) Nitrobenzene	7.434	77	222112	40.226	ng		99
25) Isophorone	7.669	82	365563	39.454	ng		98
26) 2-Nitrophenol	7.745	139	97900	41.211	ng		95
27) 2,4-Dimethylphenol	7.786	122	111210	39.127	ng		97
28) bis(2-Chloroethoxy)met...	7.875	93	218905	38.796	ng		99
29) 2,4-Dichlorophenol	7.992	162	150623	41.240	ng		100
30) 1,2,4-Trichlorobenzene	8.063	180	168914	40.076	ng		99
31) Naphthalene	8.145	128	553926	39.667	ng		100
32) Benzoic acid	7.945	122	79011	35.363	ng		93
33) 4-Chloroaniline	8.204	127	173813	37.080	ng		98
34) Hexachlorobutadiene	8.257	225	106581	41.748	ng		99
35) Caprolactam	8.598	113	45794m	42.020	ng		
36) 4-Chloro-3-methylphenol	8.692	107	175226	41.980	ng		99
37) 2-Methylnaphthalene	8.833	142	363449	41.211	ng		99
38) 1-Methylnaphthalene	8.933	142	351793	40.707	ng		98
40) 1,2,4,5-Tetrachloroben...	9.004	216	168508	40.151	ng		99
41) Hexachlorocyclopentadiene	8.980	237	51121	48.979	ng		99
43) 2,4,6-Trichlorophenol	9.122	196	99909	39.044	ng		100

Sample Results: **BF138879.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.169	196	110978	39.672	ng		100
46) 1,1'-Biphenyl	9.304	154	461730	39.023	ng		99
47) 2-Chloronaphthalene	9.328	162	343772	39.064	ng		99
48) 2-Nitroaniline	9.433	65	120246	40.306	ng		99
49) Acenaphthylene	9.739	152	490451	39.295	ng		100
50) Dimethylphthalate	9.604	163	397073	41.104	ng		100
51) 2,6-Dinitrotoluene	9.675	165	89744	41.164	ng		91
52) Acenaphthene	9.916	154	326651	38.933	ng		100
53) 3-Nitroaniline	9.845	138	89775	39.833	ng		97
54) 2,4-Dinitrophenol	9.957	184	45402	45.240	ng	#	83
55) Dibenzofuran	10.086	168	476936	40.270	ng		99
56) 4-Nitrophenol	10.022	139	57826	42.666	ng		91
57) 2,4-Dinitrotoluene	10.080	165	120107	43.181	ng	#	83
58) Fluorene	10.427	166	392206	41.585	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.210	232	87762m	41.037	ng		
60) Diethylphthalate	10.298	149	402355	43.927	ng		99
61) 4-Chlorophenyl-phenyle...	10.416	204	193596	41.737	ng		97
62) 4-Nitroaniline	10.463	138	88058	41.114	ng		89
63) Azobenzene	10.580	77	412159	40.571	ng		98
65) 4,6-Dinitro-2-methylph...	10.492	198	64538	41.494	ng		94
66) n-Nitrosodiphenylamine	10.539	169	321358	40.327	ng		100
67) 4-Bromophenyl-phenylether	10.904	248	111018	40.221	ng		96
68) Hexachlorobenzene	10.974	284	114946	40.333	ng		99
69) Atrazine	11.063	200	79675	38.753	ng		96
70) Pentachlorophenol	11.174	266	58263	45.355	ng		98
71) Phenanthrene	11.392	178	526719	40.124	ng		100
72) Anthracene	11.445	178	519957	40.206	ng		100
73) Carbazole	11.598	167	462567	41.459	ng		99
74) Di-n-butylphthalate	11.916	149	599976	47.835	ng		99
75) Fluoranthene	12.574	202	517334	42.213	ng		99
77) Benzidine	12.698	184	114954	39.838	ng		99
78) Pyrene	12.804	202	522241	45.976	ng		99
80) Butylbenzylphthalate	13.415	149	169955	46.724	ng		97
81) Benzo(a)anthracene	13.992	228	326447	39.294	ng		99
82) 3,3'-Dichlorobenzidine	13.951	252	83780	39.408	ng		98
83) Chrysene	14.027	228	299773	39.995	ng		99
84) Bis(2-ethylhexyl)phtha...	13.968	149	201833	37.893	ng		99
85) Di-n-octyl phthalate	14.580	149	337677	34.265	ng		100
87) Indeno(1,2,3-cd)pyrene	16.939	276	302261	37.875	ng		96
88) Benzo(b)fluoranthene	15.039	252	281311	40.751	ng		98
89) Benzo(k)fluoranthene	15.068	252	257413	43.068	ng		98
90) Benzo(a)pyrene	15.404	252	235833	40.615	ng		98
91) Dibenzo(a,h)anthracene	16.951	278	249401	38.071	ng		97
92) Benzo(g,h,i)perylene	17.380	276	247476	36.405	ng		96

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

Sample Results: **BF138879.D**

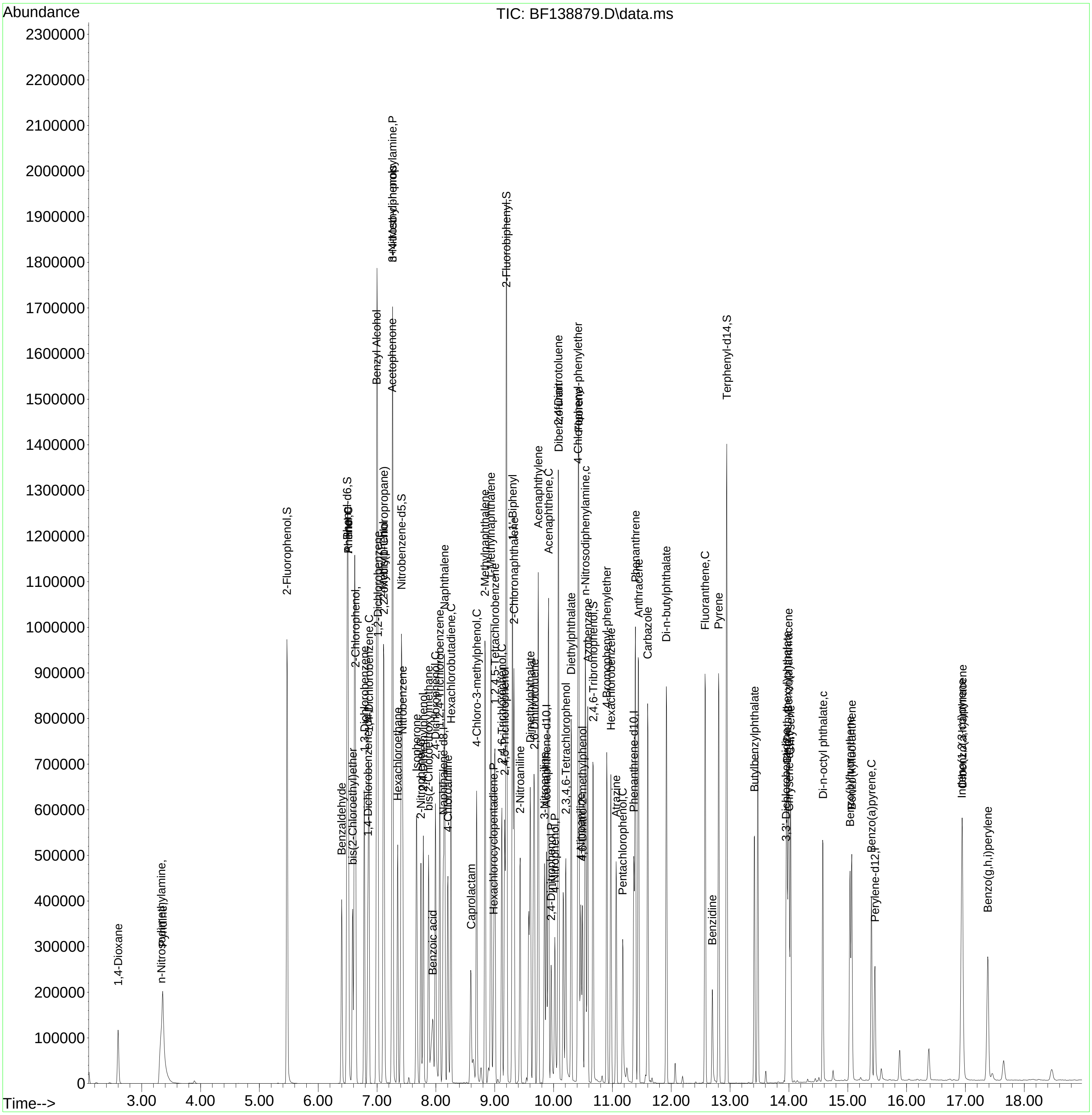
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

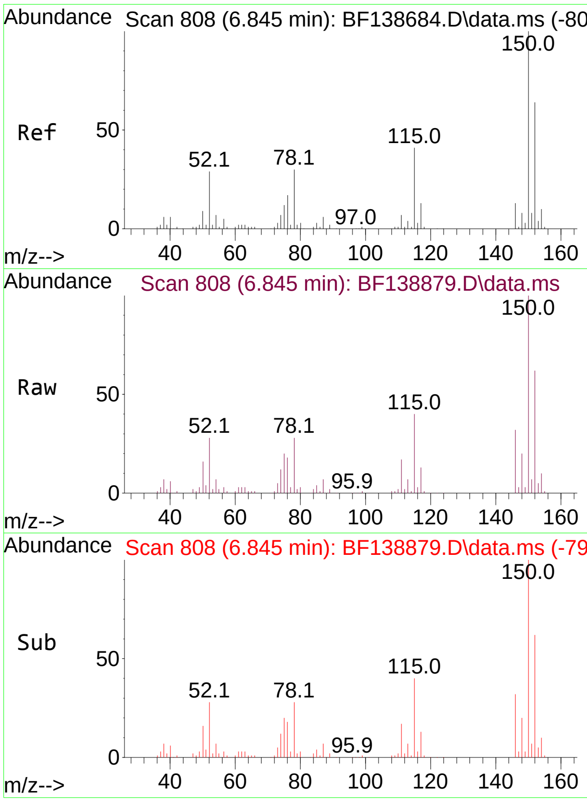
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024



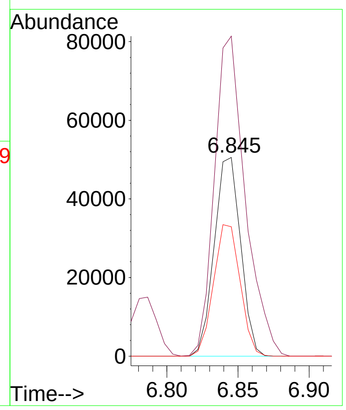
Sample Results: **BF138879.D**



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:152 Resp: 6531

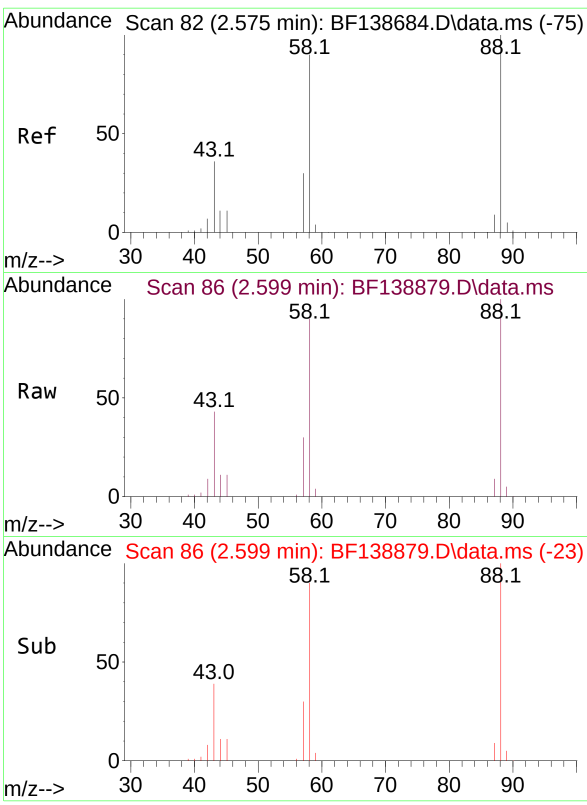
Ion	Ratio	Lower	Upper
152	100		
150	161.1	126.0	189.0
115	65.2	51.7	77.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

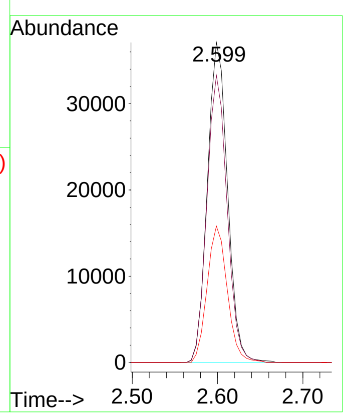
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024



#2
1,4-Dioxane
Concen: 32.959 ng
RT: 2.599 min Scan# 86
Delta R.T. 0.023 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 88 Resp: 61050

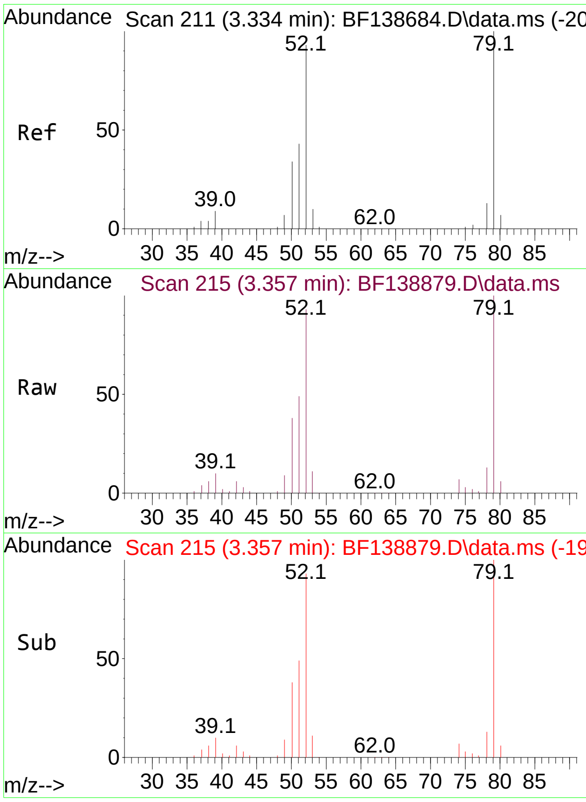
Ion	Ratio	Lower	Upper
88	100		
58	89.9	71.6	107.4
43	42.6	28.7	43.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

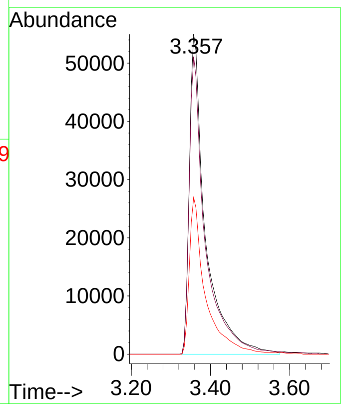
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

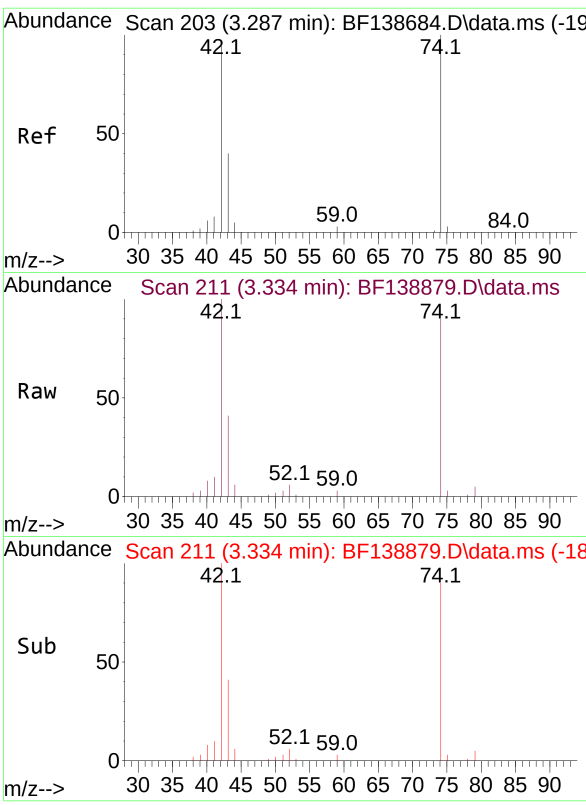


#3
Pyridine
Concen: 34.698 ng
RT: 3.357 min Scan# 21
Delta R.T. 0.023 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 79 Resp: 15569

Ion	Ratio	Lower	Upper
79	100		
52	93.0	74.7	112.1
51	48.9	34.6	51.8

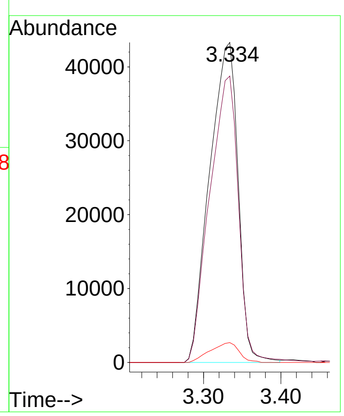


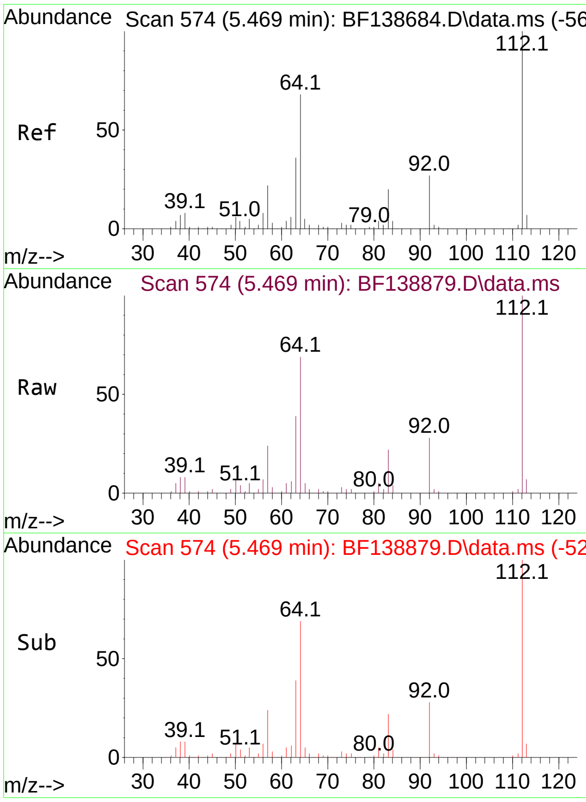


#4
n-Nitrosodimethylamine
Concen: 41.529 ng
RT: 3.334 min Scan# 211
Delta R.T. 0.047 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 42 Resp: 110982

Ion	Ratio	Lower	Upper
42	100		
74	89.5	84.2	126.4
44	6.2	4.9	7.3





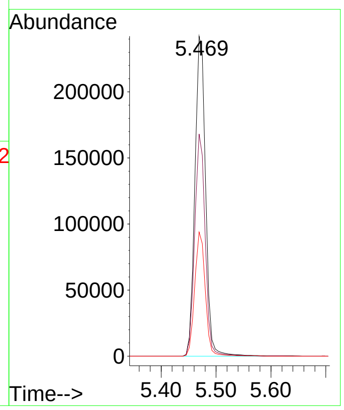
#5
2-Fluorophenol
Concen: 77.341 ng
RT: 5.469 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

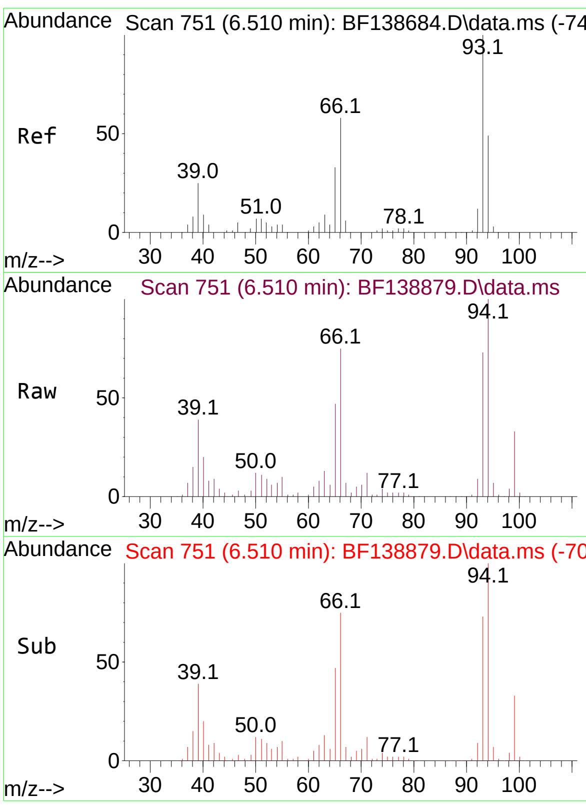
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 32722

Ion	Ratio	Lower	Upper
112	100		
64	69.5	54.2	81.4
63	38.8	28.7	43.1

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

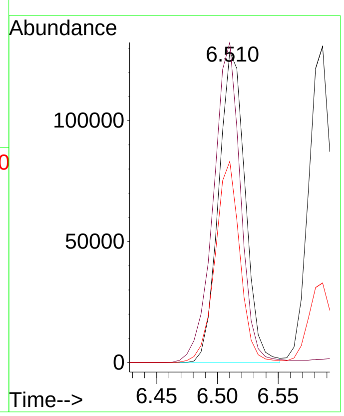




#6
Aniline
Concen: 38.553 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 93 Resp: 195305

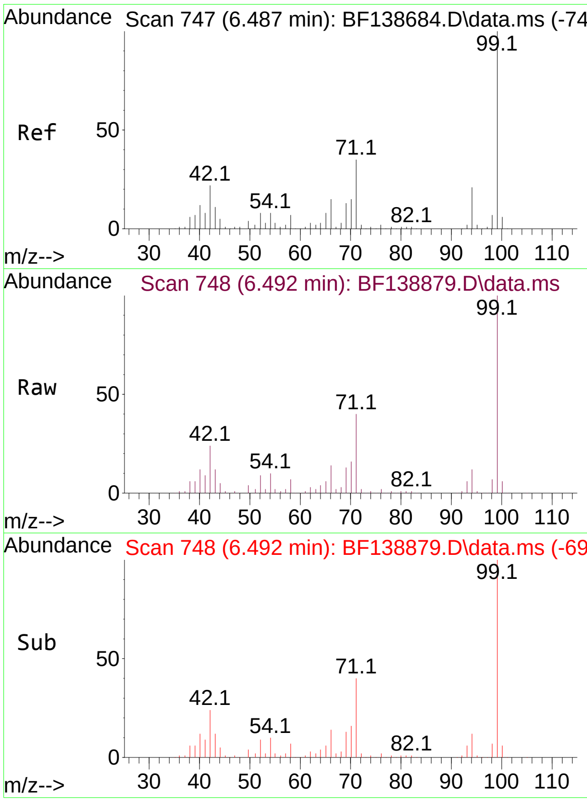
Ion	Ratio	Lower	Upper
93	100		
66	103.0	46.9	70.3#
65	64.7	26.5	39.7#



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

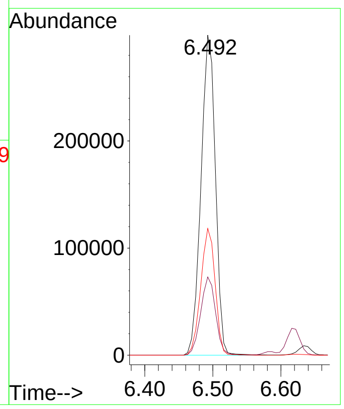
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

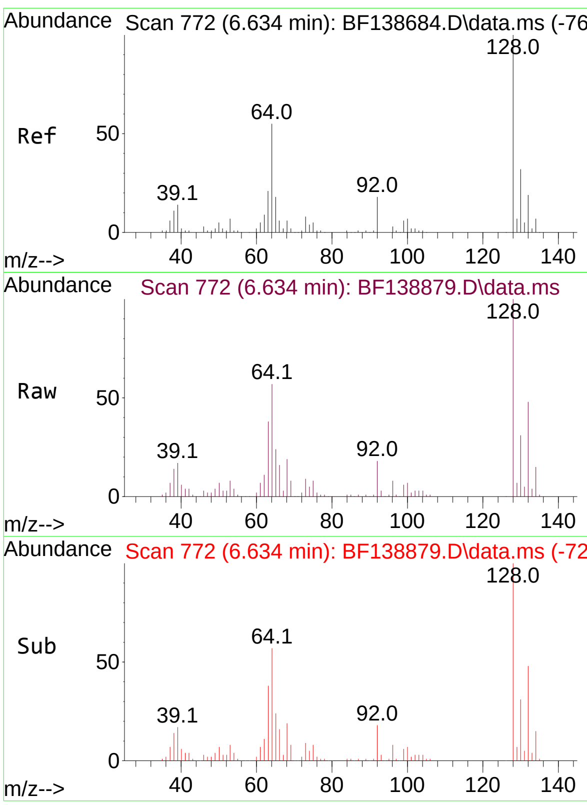


#7
Phenol-d6
Concen: 77.642 ng
RT: 6.492 min Scan# 74
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 99 Resp: 44103

Ion	Ratio	Lower	Upper
99	100		
42	24.5	17.4	26.0
71	39.6	28.1	42.1

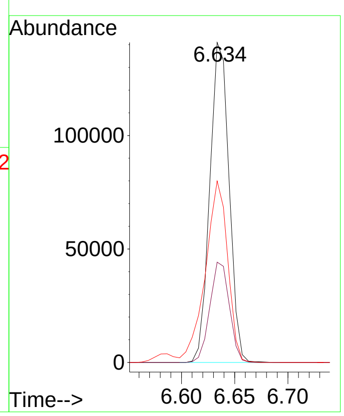




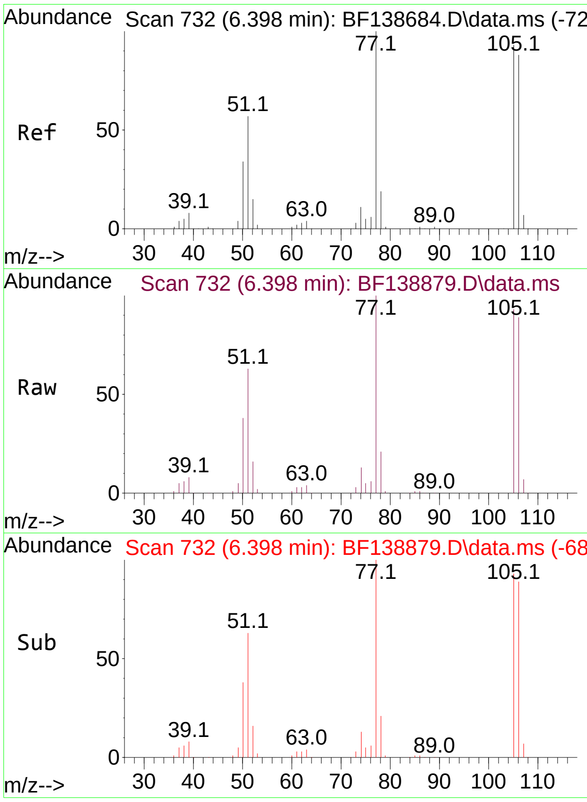
#8
2-Chlorophenol
Concen: 39.975 ng
RT: 6.634 min Scan# 772
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:128 Resp: 177941

Ion	Ratio	Lower	Upper
128	100		
130	31.4	12.0	52.0
64	56.7	36.3	76.3



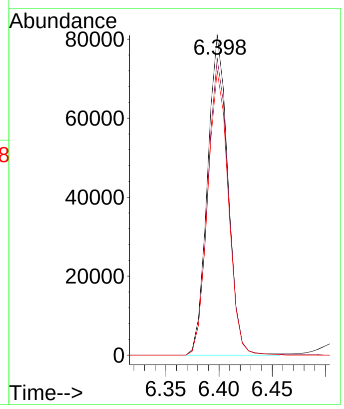
Sample Results: **BF138879.D**



#9
Benzaldehyde
Concen: 31.868 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 77 Resp: 10851

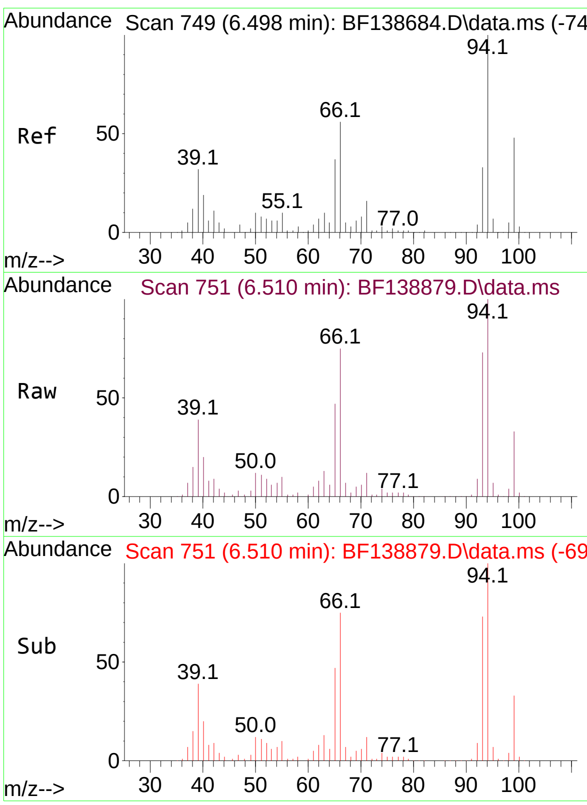
Ion	Ratio	Lower	Upper
77	100		
105	92.7	72.9	112.9
106	88.8	68.4	108.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

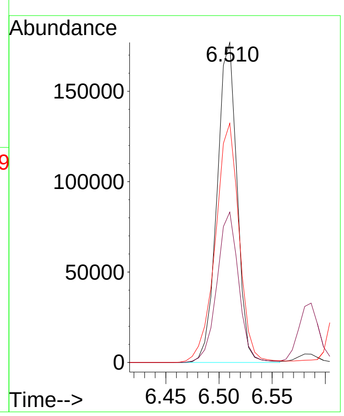
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024



#10
Phenol
Concen: 38.591 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.012 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 94 Resp: 230807

Ion	Ratio	Lower	Upper
94	100		
65	47.0	16.9	56.9
66	74.8	36.5	76.5

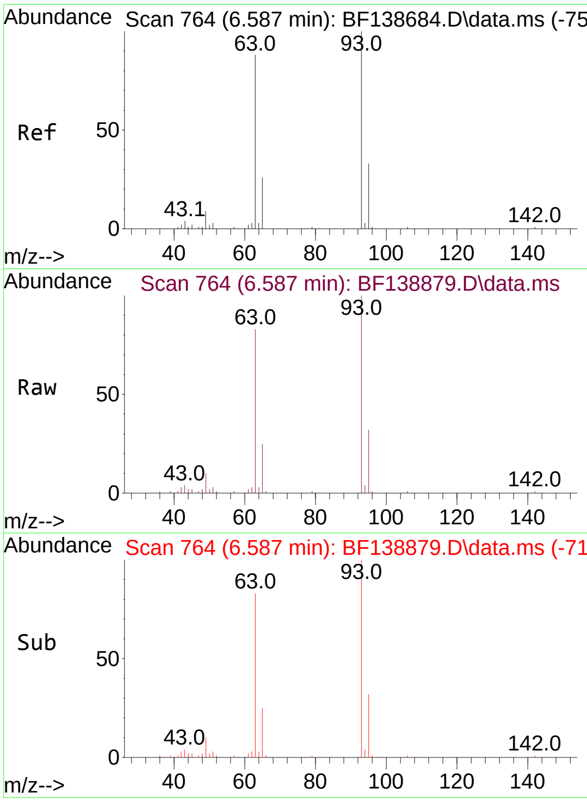


Sample Results: **BF138879.D**

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

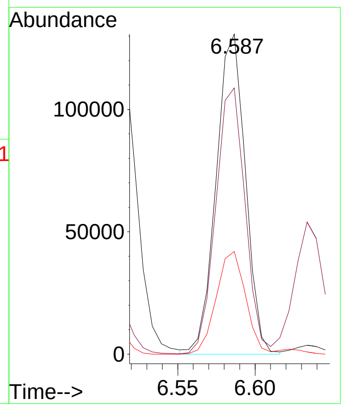
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

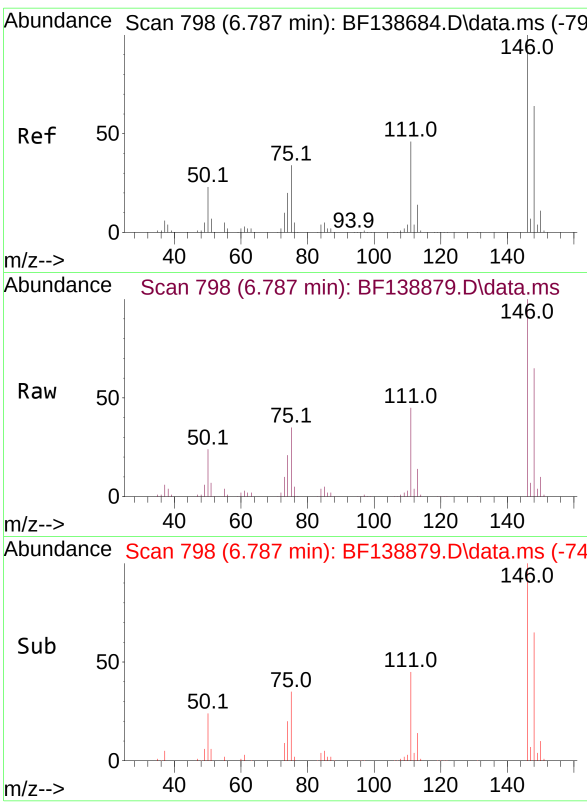


#11
bis(2-Chloroethyl)ether
Concen: 37.428 ng
RT: 6.587 min Scan# 7(
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 93 Resp: 17225(

Ion	Ratio	Lower	Upper
93	100		
63	83.2	65.3	105.3
95	32.1	12.4	52.4

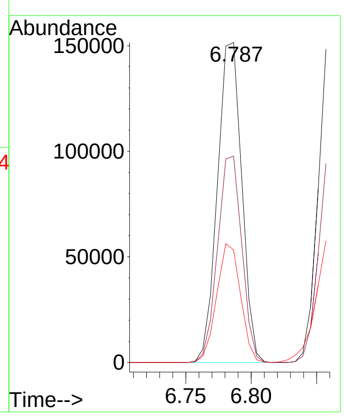


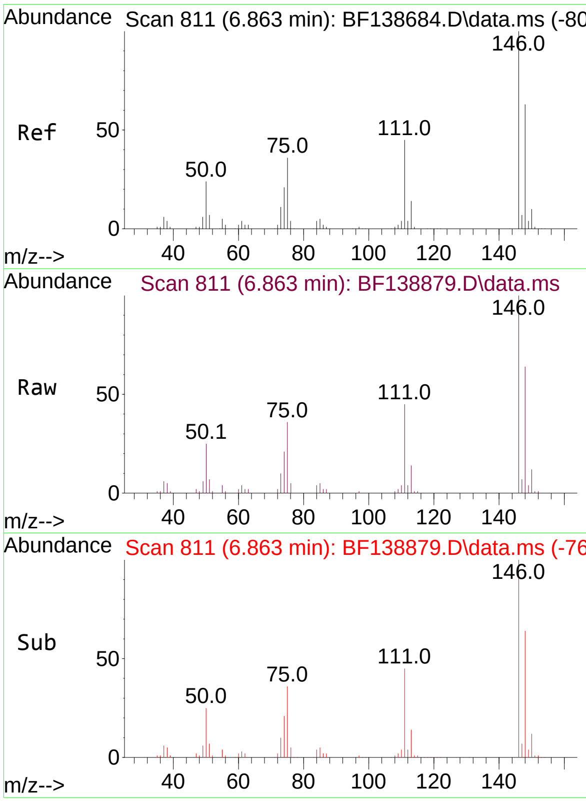


#12
1,3-Dichlorobenzene
Concen: 39.328 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:146 Resp: 195964

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.2	76.8
75	35.2	27.4	41.2





#13
1,4-Dichlorobenzene
Concen: 39.385 ng
RT: 6.863 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

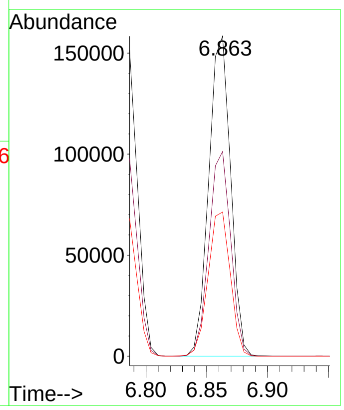
Tgt Ion:146 Resp: 19805

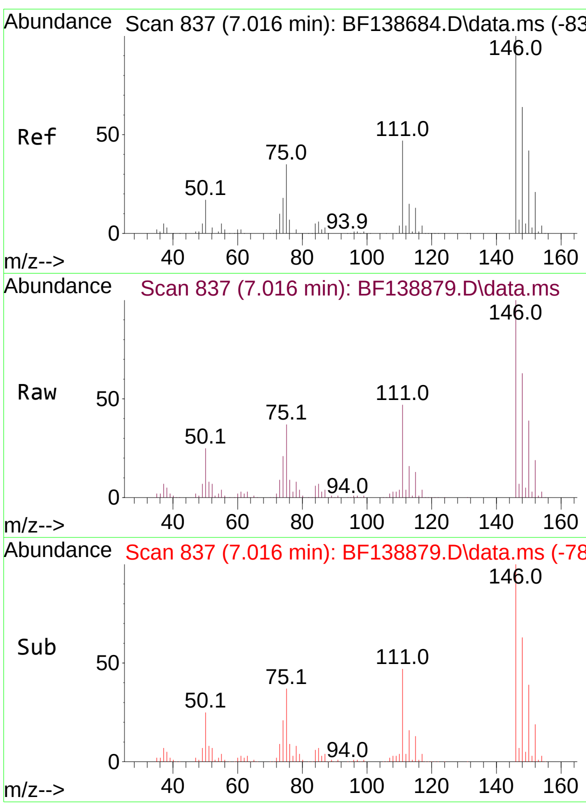
Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.2	75.2
111	45.1	35.9	53.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

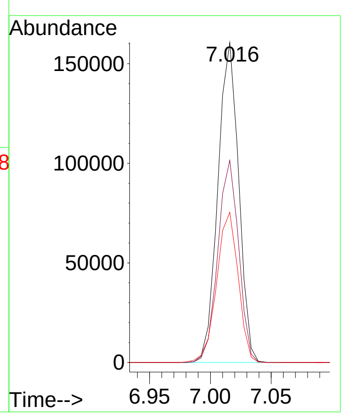




#14
1,2-Dichlorobenzene
Concen: 40.758 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:146 Resp: 191541

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.8	76.2
111	46.9	37.4	56.2

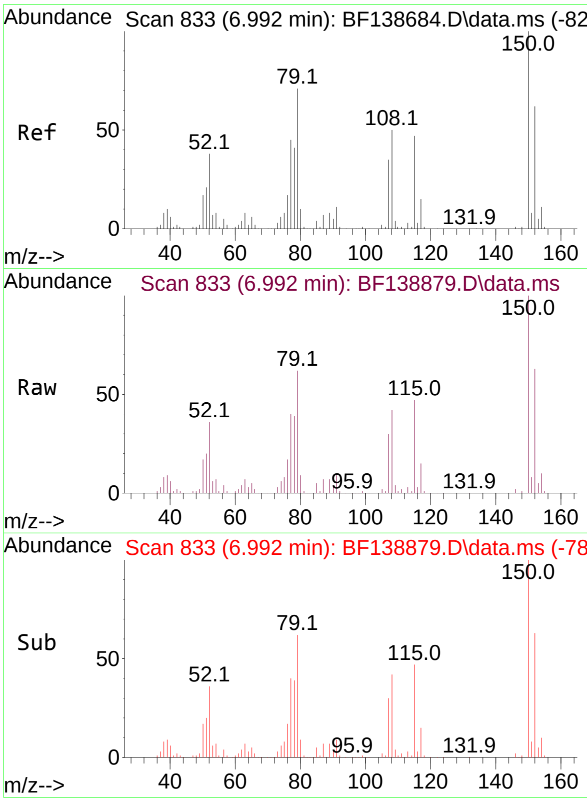


Sample Results: **BF138879.D**

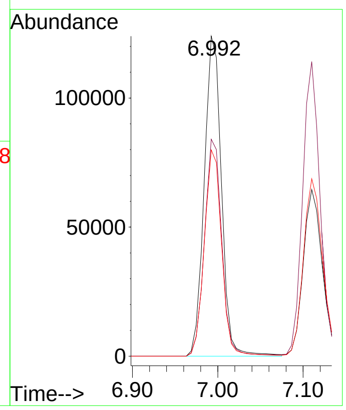
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

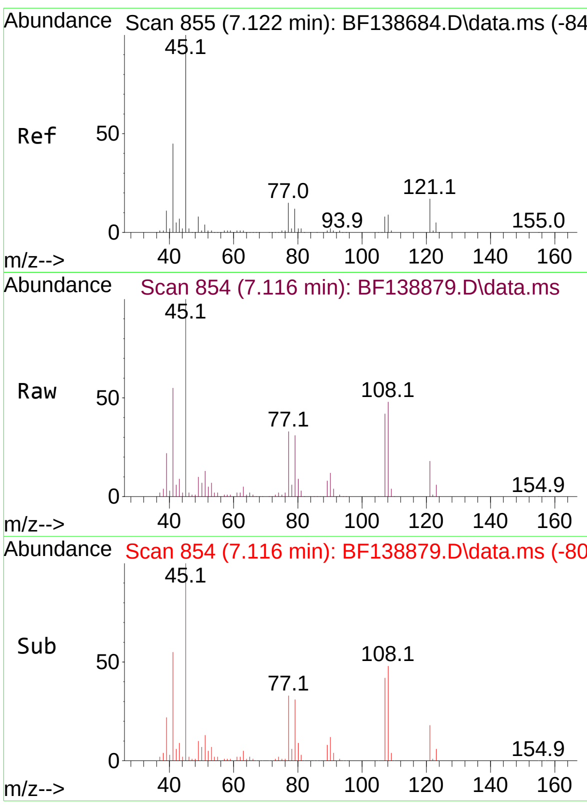
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

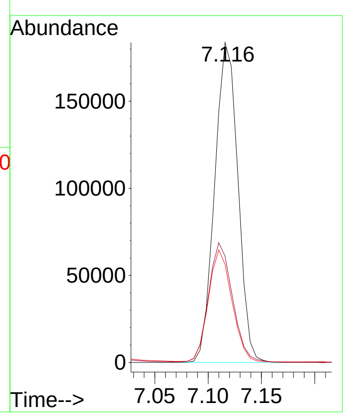


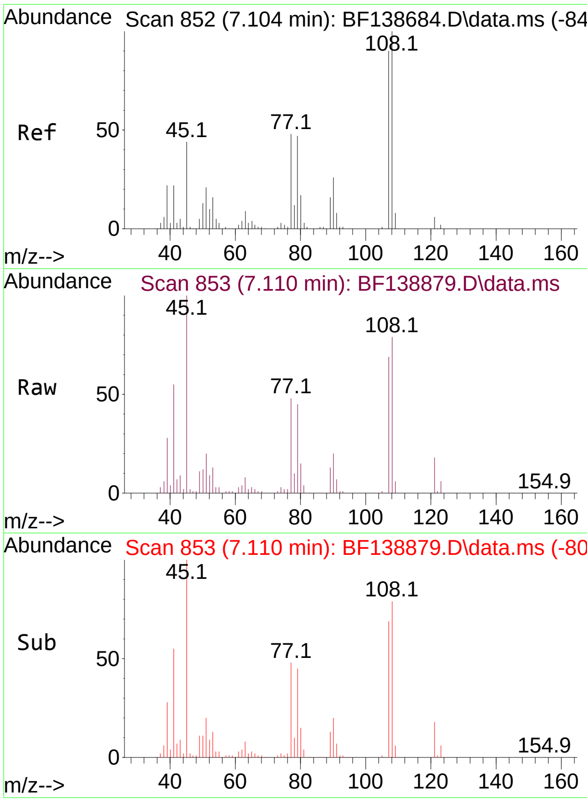

```
#15
Benzyl Alcohol
Concen:   42.513 ng
RT:   6.992 min  Scan# 8
Delta R.T.  -0.000 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion: 79 Resp:  17405
Ion  Ratio  Lower  Upper
 79  100
108   67.8   56.6   85.0
 77   64.5   50.3   75.5
```






```
#16
2,2'-oxybis(1-Chloropropane)
Concen:   35.181 ng
RT:   7.116 min  Scan# 854
Delta R.T.  -0.006 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion: 45 Resp:  278655
Ion  Ratio  Lower  Upper
 45  100
 77   33.2    0.0   34.9
 79   30.7    0.0   32.2
```





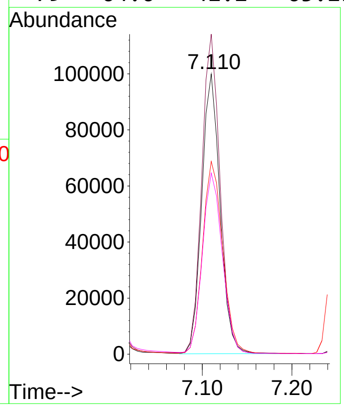
#17
2-Methylphenol
Concen: 38.644 ng
RT: 7.110 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

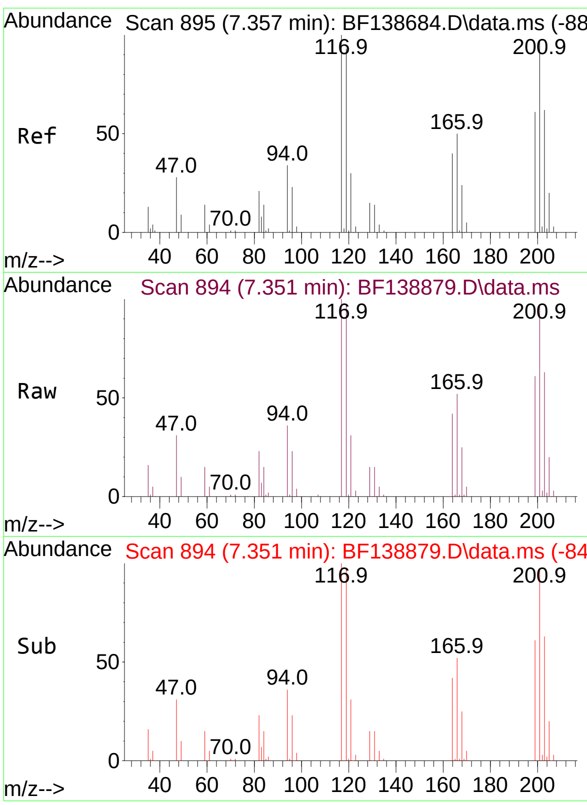
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 14204

Ion	Ratio	Lower	Upper
107	100		
108	114.2	89.2	133.8
77	68.8	43.0	64.4#
79	64.6	42.2	63.2#

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

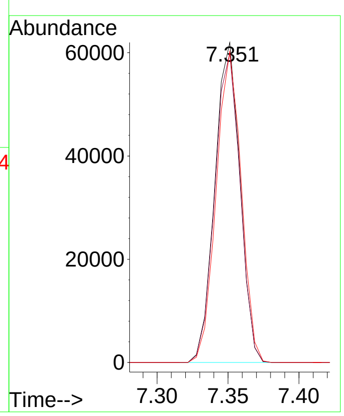




#18
Hexachloroethane
Concen: 40.424 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:117 Resp: 76517

Ion	Ratio	Lower	Upper
117	100		
119	96.7	74.6	111.8
201	97.2	77.2	115.8

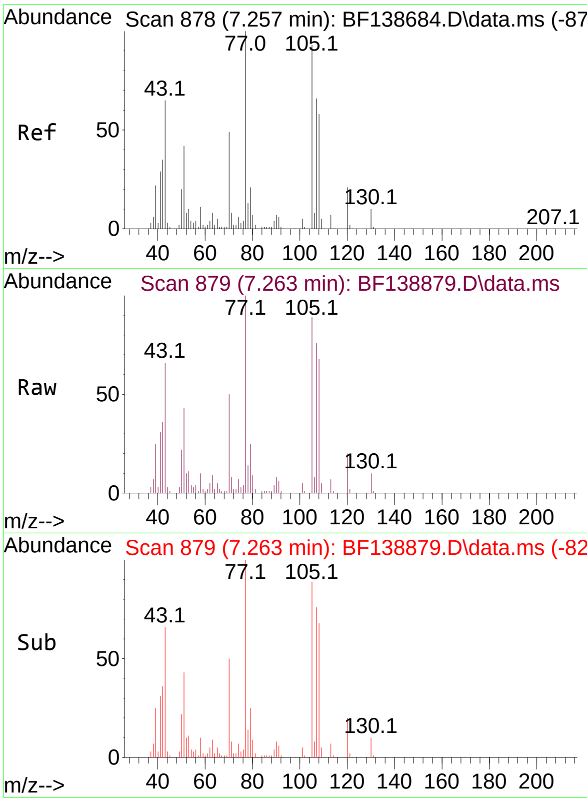


Sample Results: **BF138879.D**

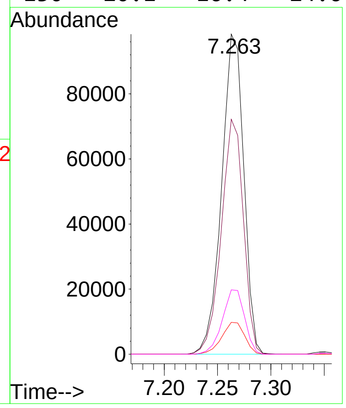
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

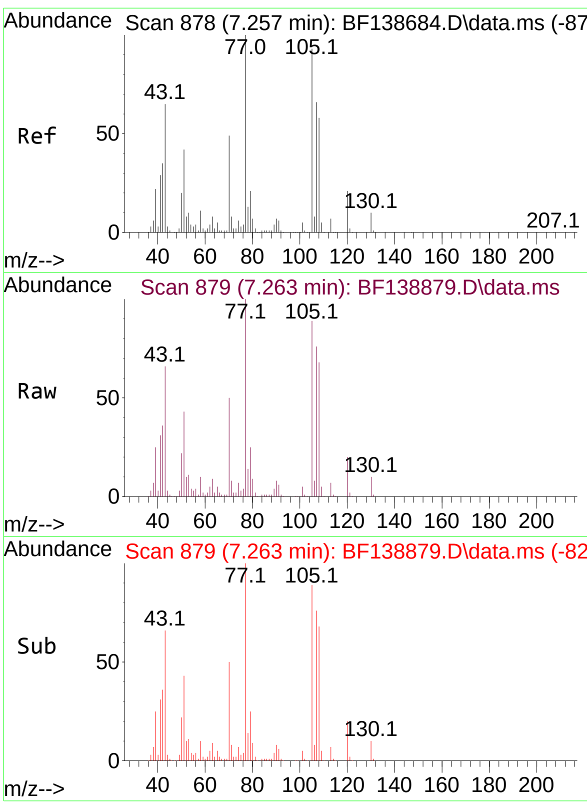
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

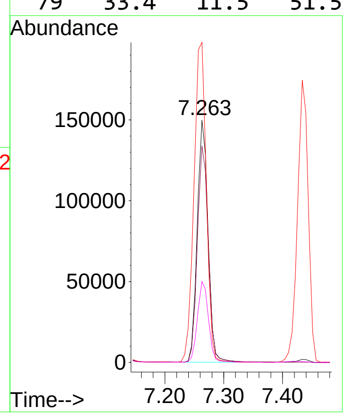



```
#19
n-Nitroso-di-n-propylamine
Concen:   41.371 ng
RT:   7.263 min  Scan# 8
Delta R.T.  0.006 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion: 70 Resp:  14193
Ion  Ratio  Lower  Upper
 70  100
 42   73.4   57.4   86.0
101    9.9    7.5   11.3
130   20.1   16.4   24.6
```





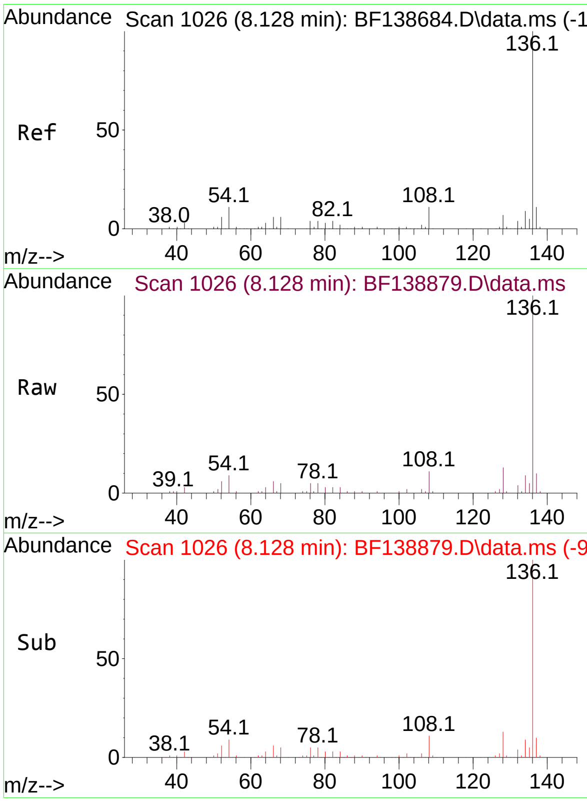

```
#20
3+4-Methylphenols
Concen:   40.691 ng
RT:   7.263 min  Scan# 879
Delta R.T.  0.006 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:107 Resp:  191899
Ion  Ratio  Lower  Upper
107  100
108   89.3   68.2  108.2
 77  132.0  132.1  172.1#
 79   33.4   11.5   51.5
```



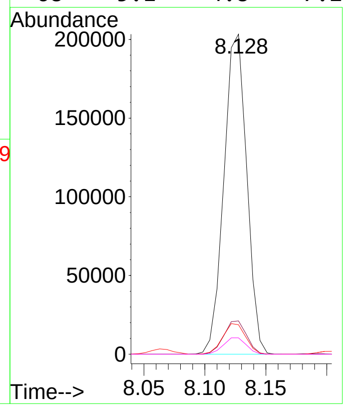
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

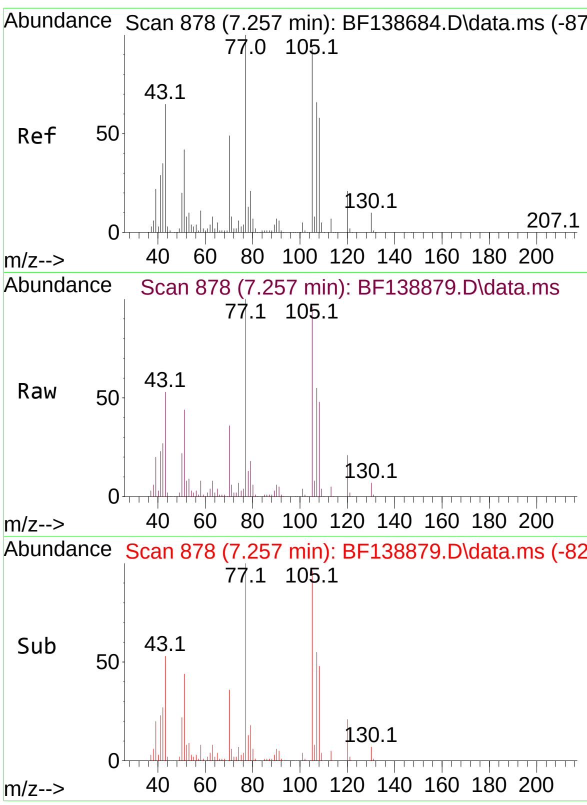
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

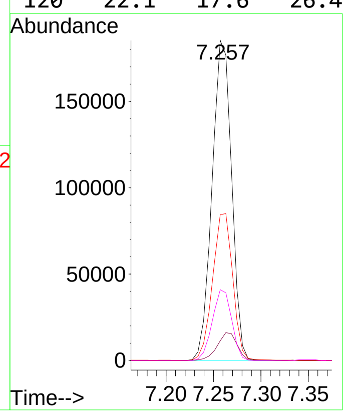



```
#21
Naphthalene-d8
Concen:   20.000 ng
RT:   8.128 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:136 Resp:  26529
Ion  Ratio  Lower  Upper
136  100
137   10.4    8.9   13.3
 54    9.2    8.6   12.8
 68    5.1    4.8    7.2
```





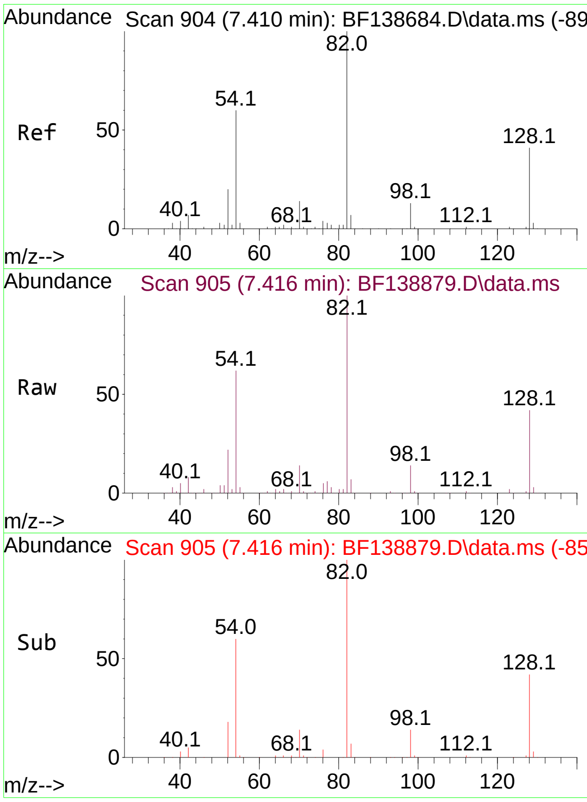

```
#22
Acetophenone
Concen:   40.881 ng
RT:   7.257 min  Scan# 878
Delta R.T.  -0.000 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:105 Resp:  265553
Ion  Ratio  Lower  Upper
105  100
 71    6.2    7.2   10.8#
 51   45.5   35.9   53.9
120   22.1   17.6   26.4
```



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

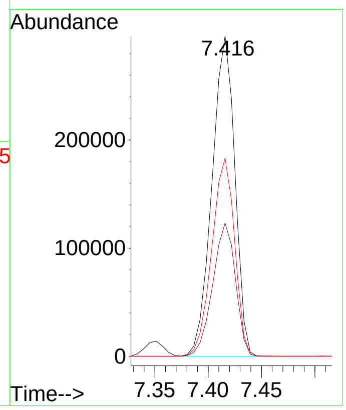
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

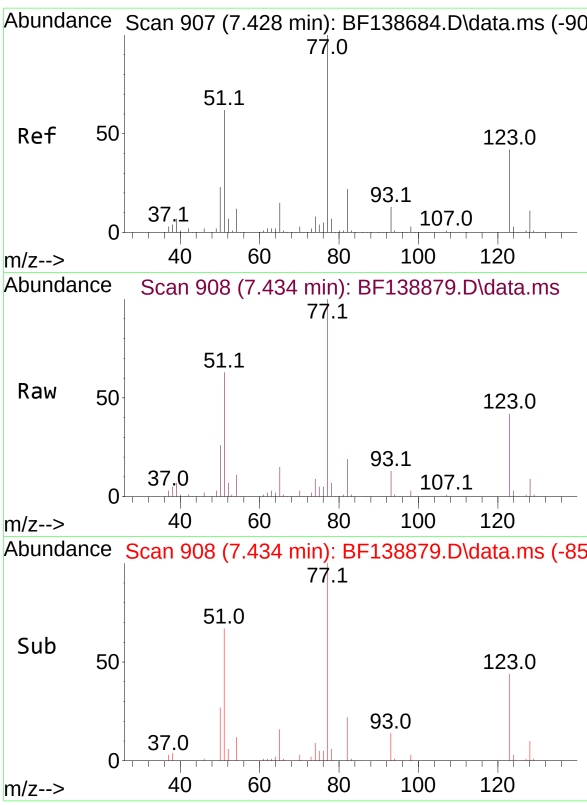


#23
Nitrobenzene-d5
Concen: 81.125 ng
RT: 7.416 min Scan# 90
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 82 Resp: 44020

Ion	Ratio	Lower	Upper
82	100		
128	41.6	32.8	49.2
54	61.9	48.3	72.5

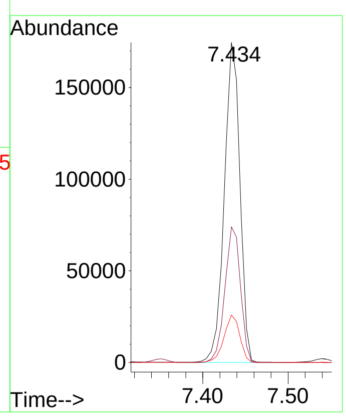




#24
Nitrobenzene
Concen: 40.226 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 77 Resp: 222112

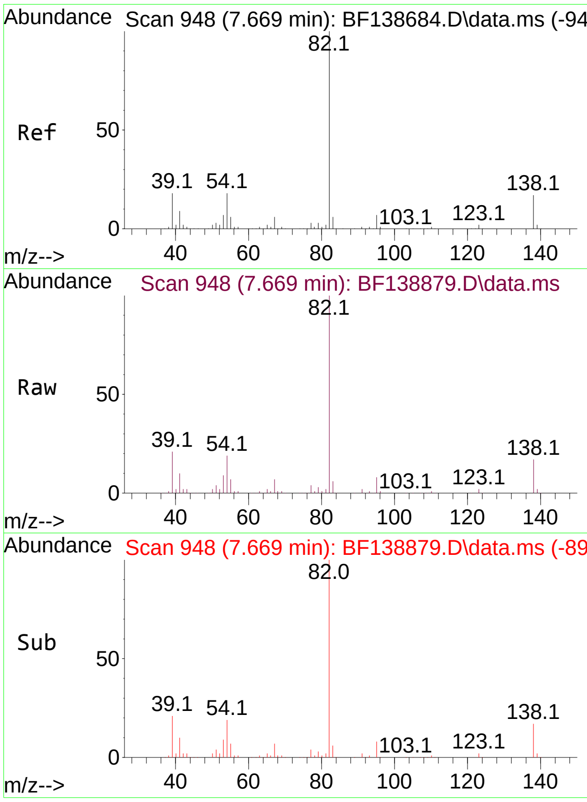
Ion	Ratio	Lower	Upper
77	100		
123	42.3	33.3	49.9
65	14.8	11.9	17.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

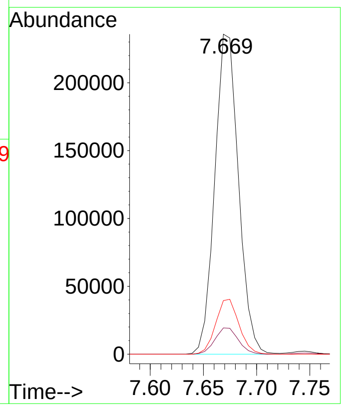
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

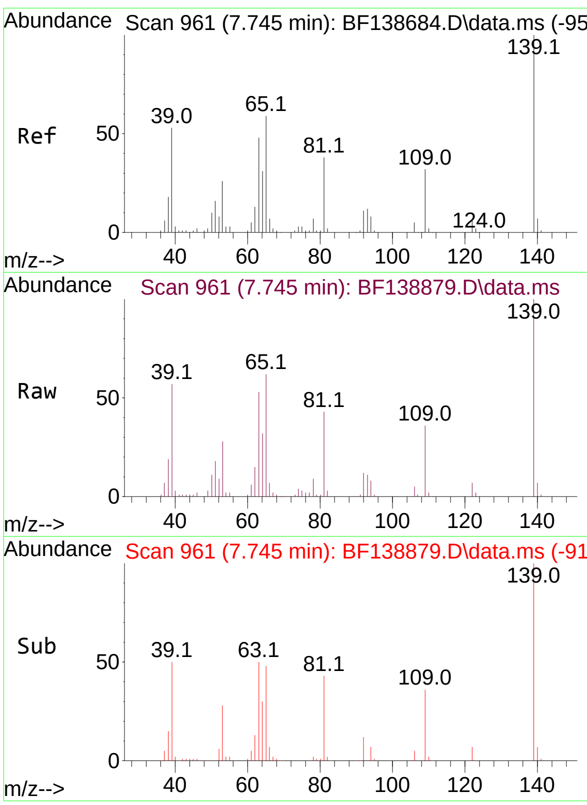


#25
Isophorone
Concen: 39.454 ng
RT: 7.669 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 82 Resp: 36556

Ion	Ratio	Lower	Upper
82	100		
95	8.2	5.7	8.5
138	16.8	13.7	20.5

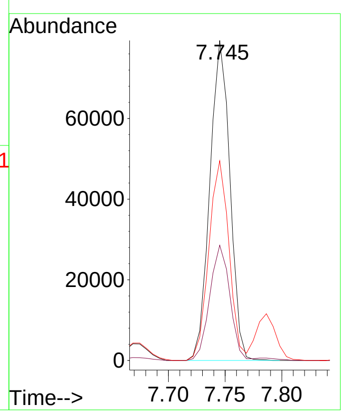




#26
2-Nitrophenol
Concen: 41.211 ng
RT: 7.745 min Scan# 961
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

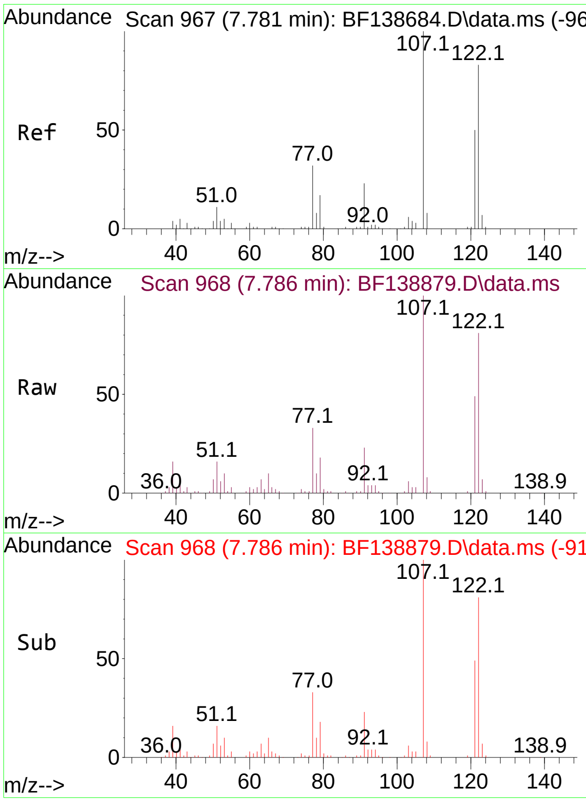
Tgt Ion:139 Resp: 97900

Ion	Ratio	Lower	Upper
139	100		
109	36.0	25.9	38.9
65	62.4	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

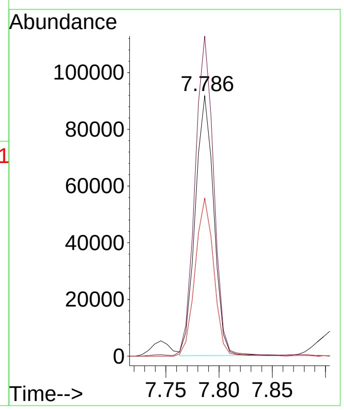
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

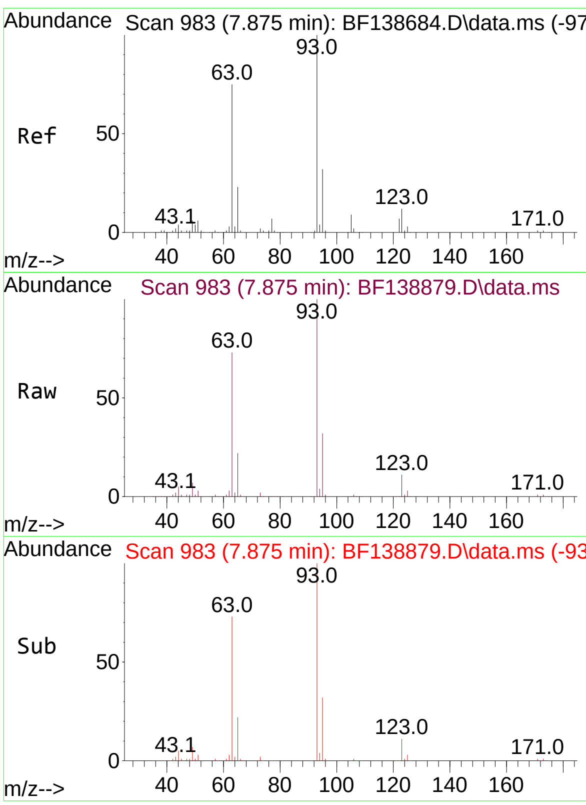


#27
2,4-Dimethylphenol
Concen: 39.127 ng
RT: 7.786 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:122 Resp: 11121

Ion	Ratio	Lower	Upper
122	100		
107	123.0	95.0	142.6
121	60.6	47.3	70.9

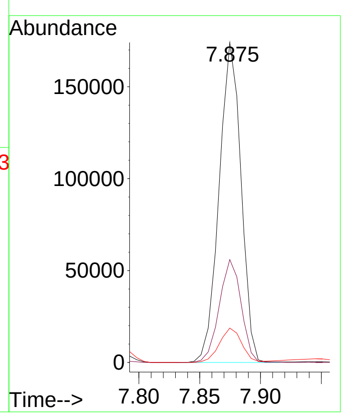


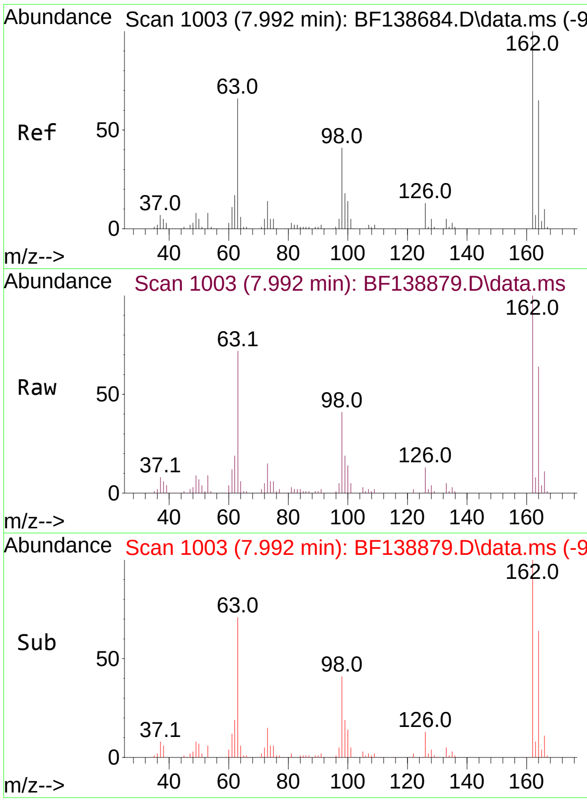


#28
bis(2-Chloroethoxy)methane
Concen: 38.796 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 93 Resp: 218905

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	10.8	9.4	14.0



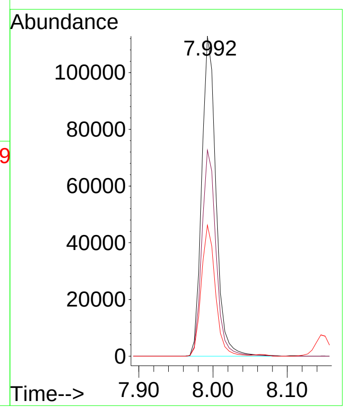


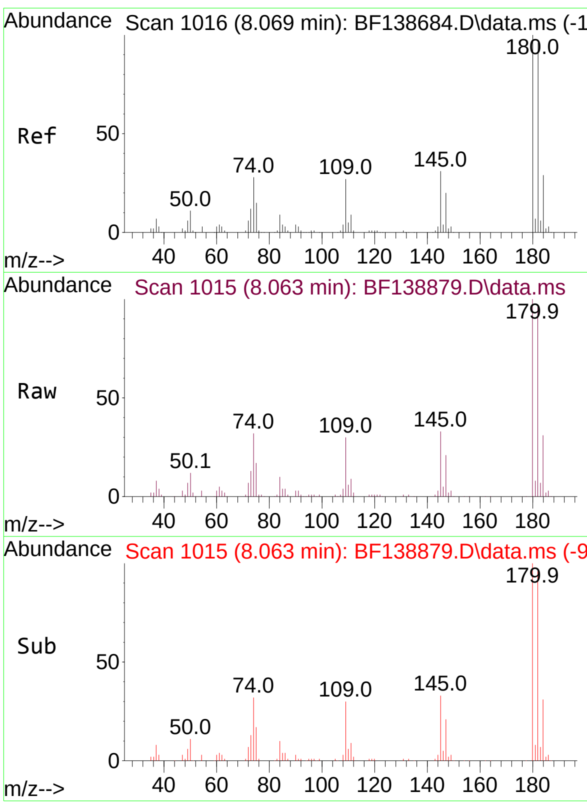

```
#29
2,4-Dichlorophenol
Concen:   41.240 ng
RT:   7.992 min  Scan# 10
Delta R.T.   -0.000 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:162 Resp:  15062
Ion  Ratio  Lower  Upper
162  100
164   64.4   44.7   84.7
 98   41.0   20.8   60.8
```

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

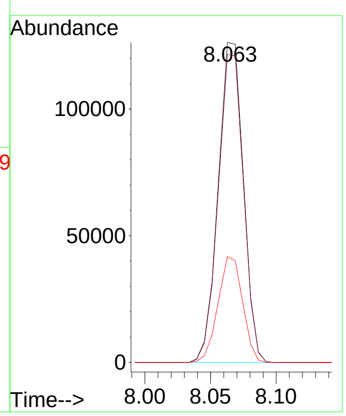
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024





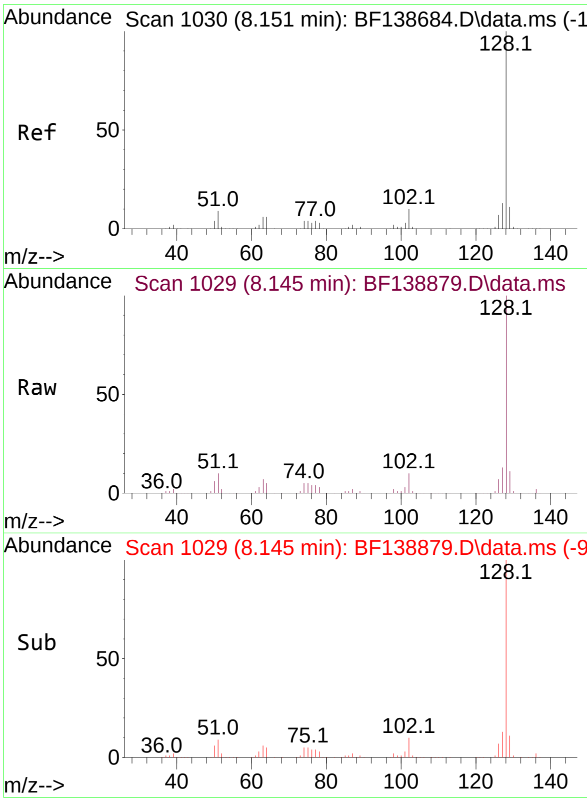

```
#30
1,2,4-Trichlorobenzene
Concen:   40.076 ng
RT:   8.063 min  Scan# 1015
Delta R.T.   -0.006 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:180 Resp:  168914
Ion  Ratio  Lower  Upper
180  100
182   96.2   76.9  115.3
145   33.1   25.0   37.4
```



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

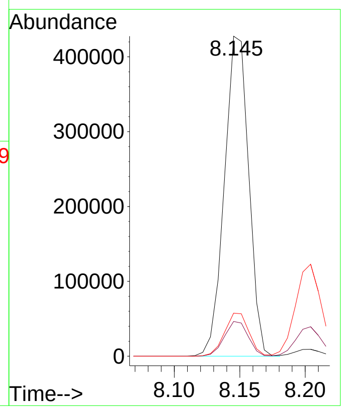
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

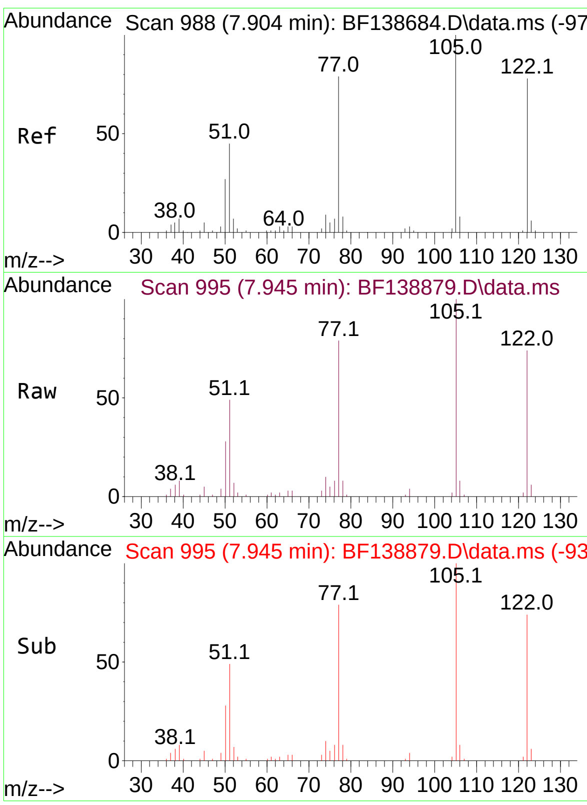


#31
Naphthalene
Concen: 39.667 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:128 Resp: 55392

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.4	10.6	16.0

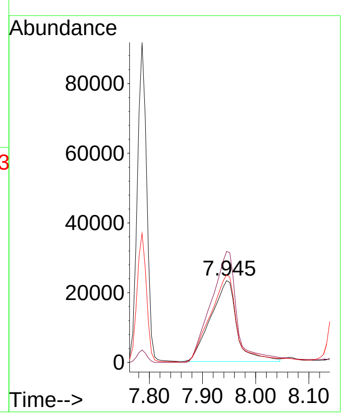




#32
Benzoic acid
Concen: 35.363 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.041 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:122 Resp: 79011

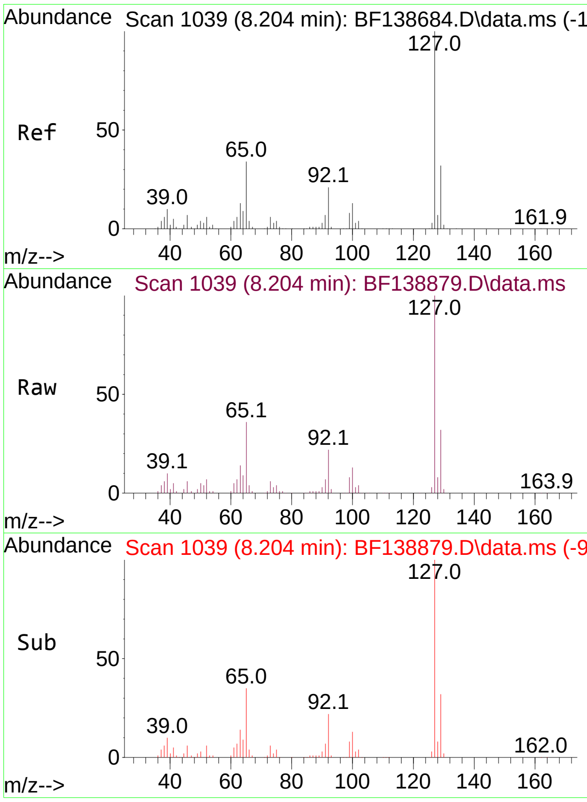
Ion	Ratio	Lower	Upper
122	100		
105	135.9	106.7	146.7
77	107.2	81.1	121.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

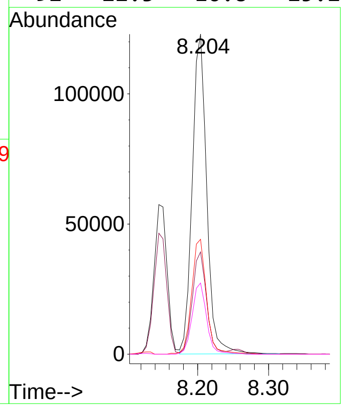
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

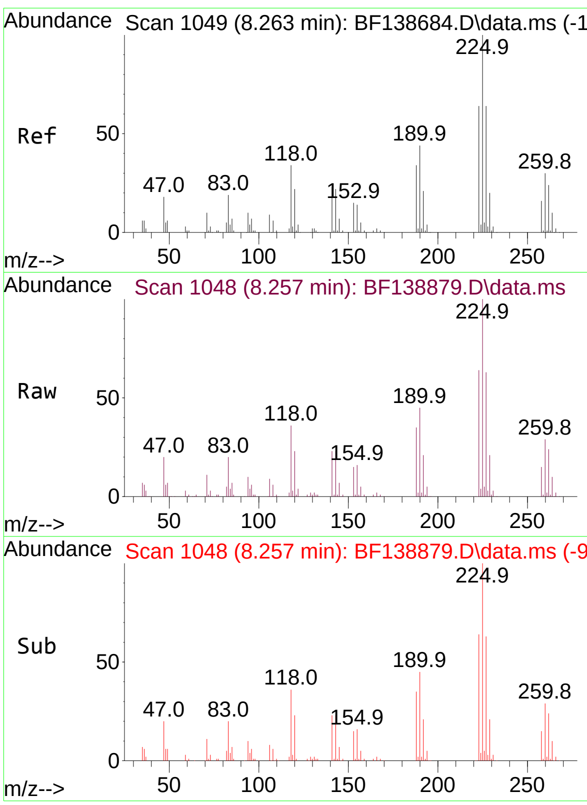


#33
4-Chloroaniline
Concen: 37.080 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:127 Resp: 17381

Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.9	38.9
65	35.9	27.6	41.4
92	22.3	16.8	25.2

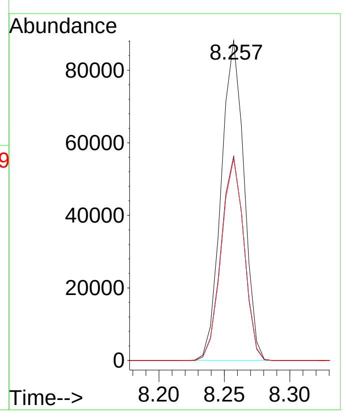




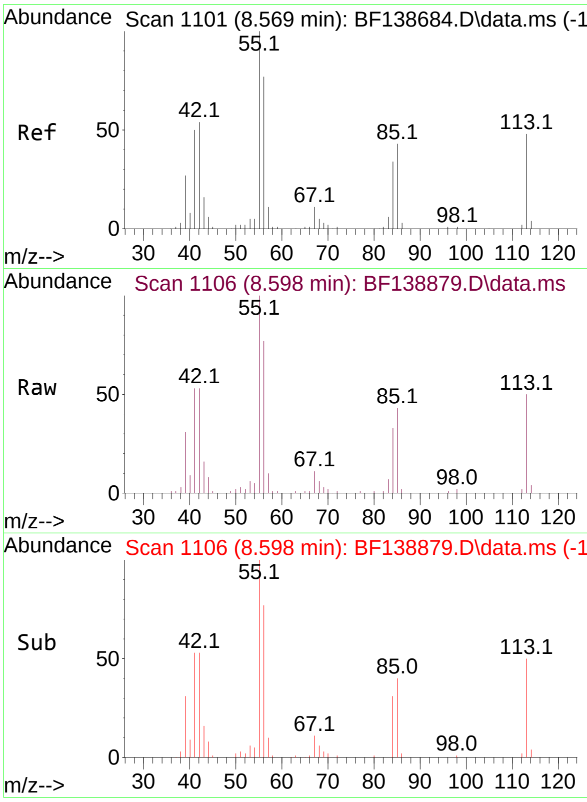
#34
Hexachlorobutadiene
Concen: 41.748 ng
RT: 8.257 min Scan# 1048
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:225 Resp: 106581

Ion	Ratio	Lower	Upper
225	100		
223	63.9	51.2	76.8
227	63.2	51.1	76.7



Sample Results: **BF138879.D**

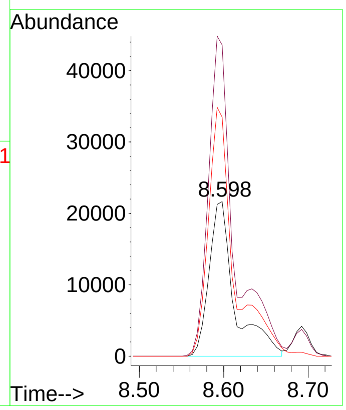


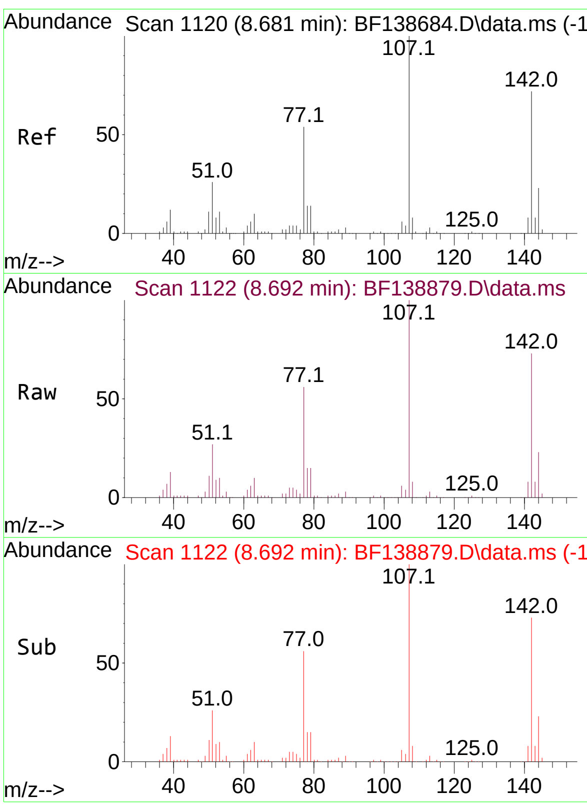

```
#35
Caprolactam
Concen:   42.020 ng  m
RT:   8.598 min  Scan# 1
Delta R.T.  0.029 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:113 Resp:   4579
Ion  Ratio  Lower  Upper
113  100
 55  201.3  186.7  226.7
 56  154.6  138.9  178.9
```

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

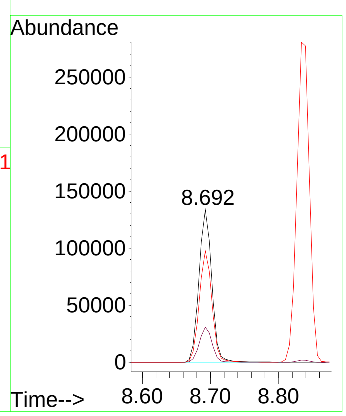
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024



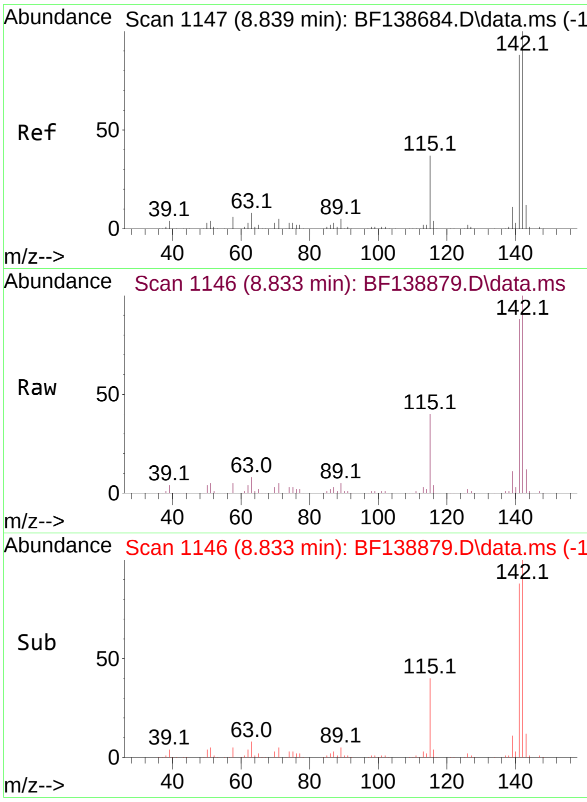



```
#36
4-Chloro-3-methylphenol
Concen:   41.980 ng
RT:   8.692 min  Scan# 1122
Delta R.T.  0.012 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:107 Resp:  175226
Ion  Ratio   Lower   Upper
107  100
144    23.0   18.2    27.2
142    72.9   57.4    86.2
```



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

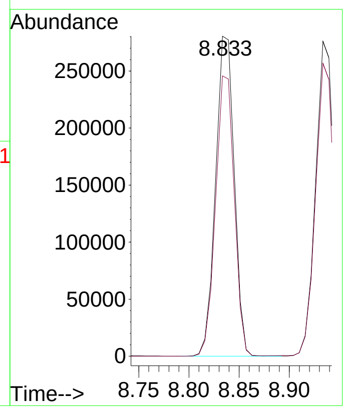
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

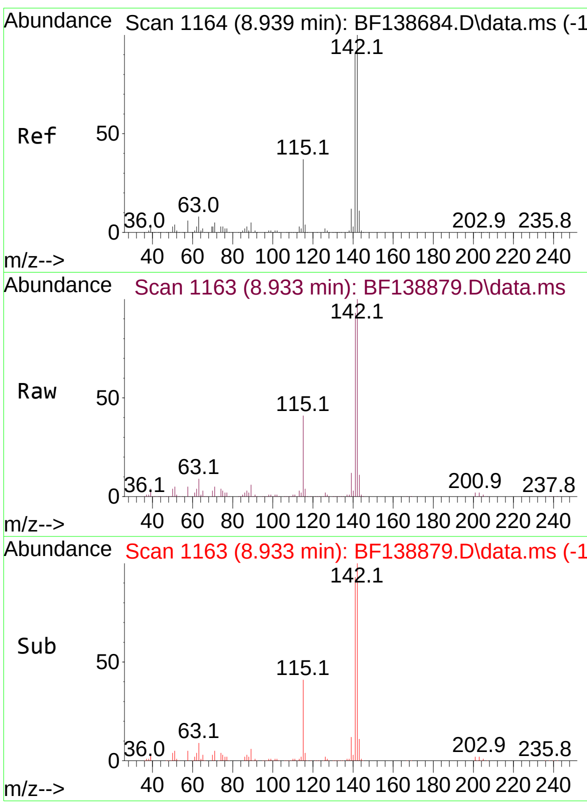


#37
2-Methylnaphthalene
Concen: 41.211 ng
RT: 8.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:142 Resp: 36344

Ion	Ratio	Lower	Upper
142	100		
141	87.6	70.8	106.2

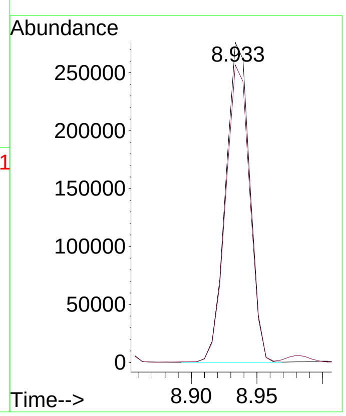


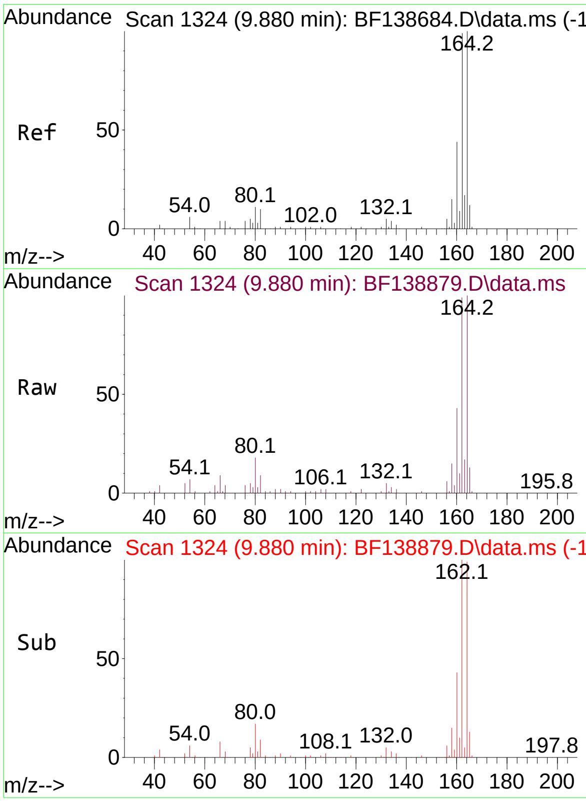


#38
1-Methylnaphthalene
Concen: 40.707 ng
RT: 8.933 min Scan# 1163
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:142 Resp: 351793

Ion	Ratio	Lower	Upper
142	100		
141	93.0	73.1	109.7





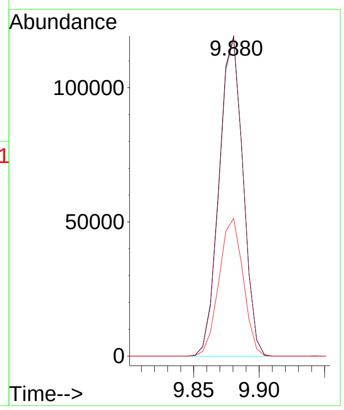
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

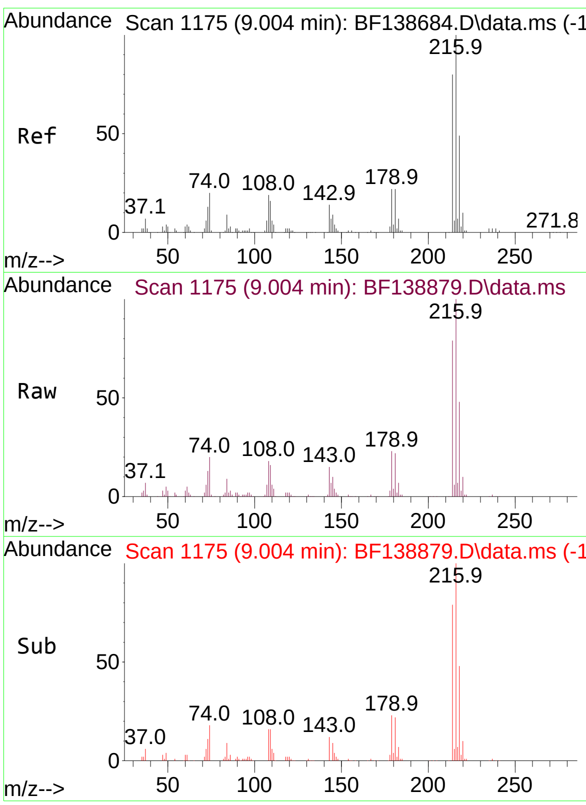
Tgt Ion:164 Resp: 15108

Ion	Ratio	Lower	Upper
164	100		
162	99.2	79.4	119.0
160	43.1	35.1	52.7

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

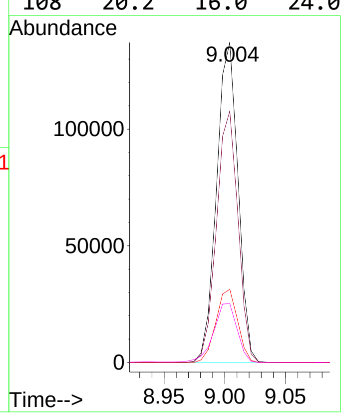


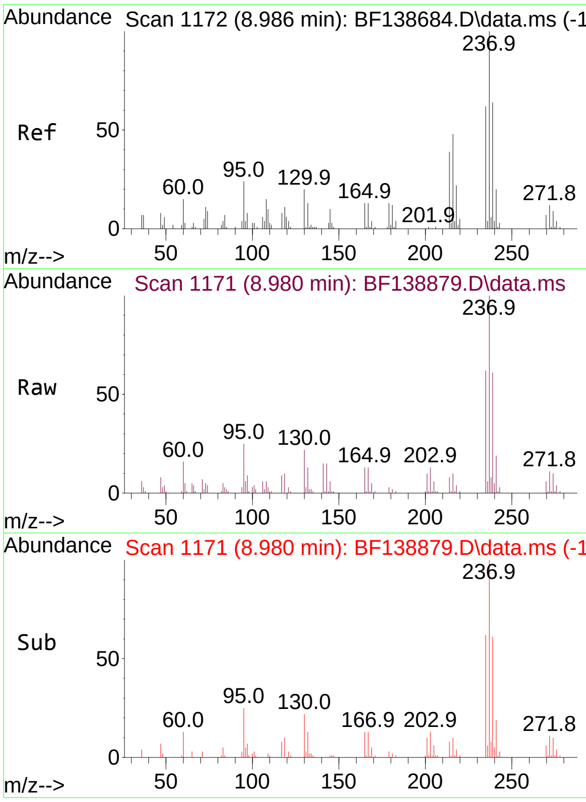


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.151 ng
RT: 9.004 min Scan# 1175
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:216 Resp: 168508

Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.9	95.9
179	23.2	17.8	26.6
108	20.2	16.0	24.0





#41
Hexachlorocyclopentadiene
Concen: 48.979 ng
RT: 8.980 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

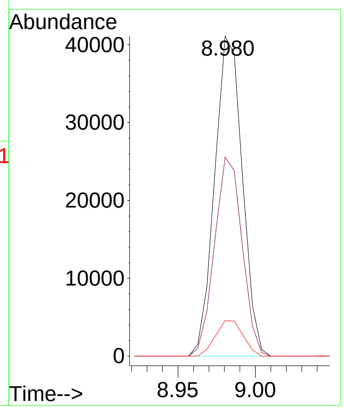
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

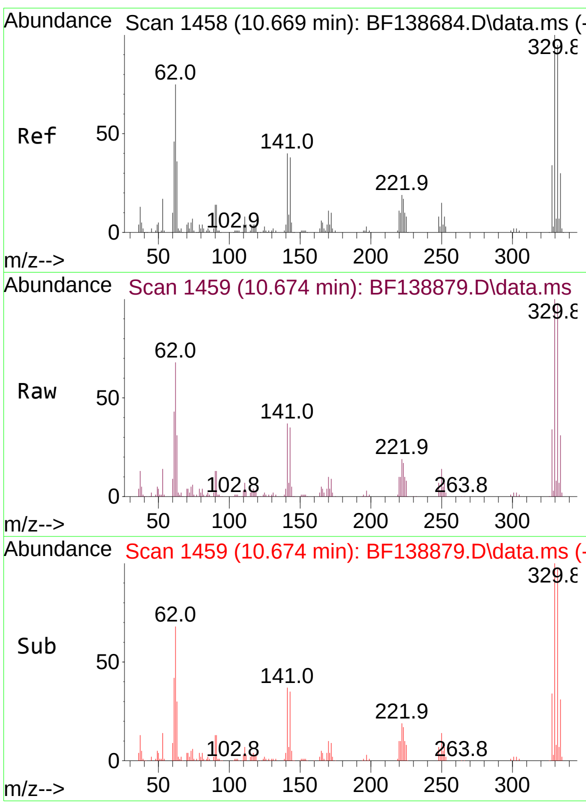
Tgt Ion:237 Resp: 5112

Ion	Ratio	Lower	Upper
237	100		
235	62.2	41.8	81.8
272	11.1	0.0	32.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

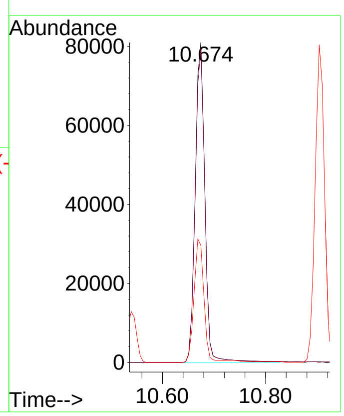




#42
2,4,6-Tribromophenol
Concen: 85.652 ng
RT: 10.674 min Scan# 1459
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:330 Resp: 105999

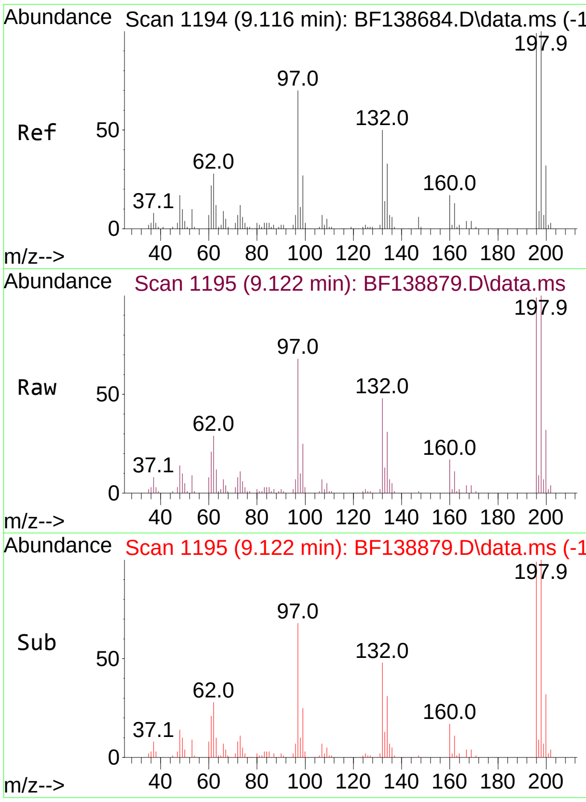
Ion	Ratio	Lower	Upper
330	100		
332	97.6	76.4	114.6
141	39.3	31.1	46.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

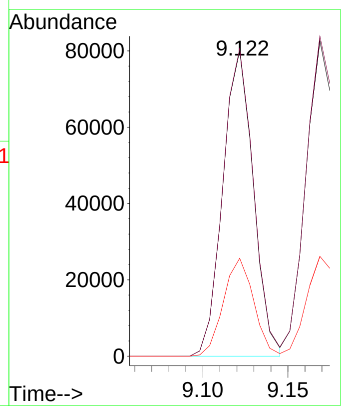
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

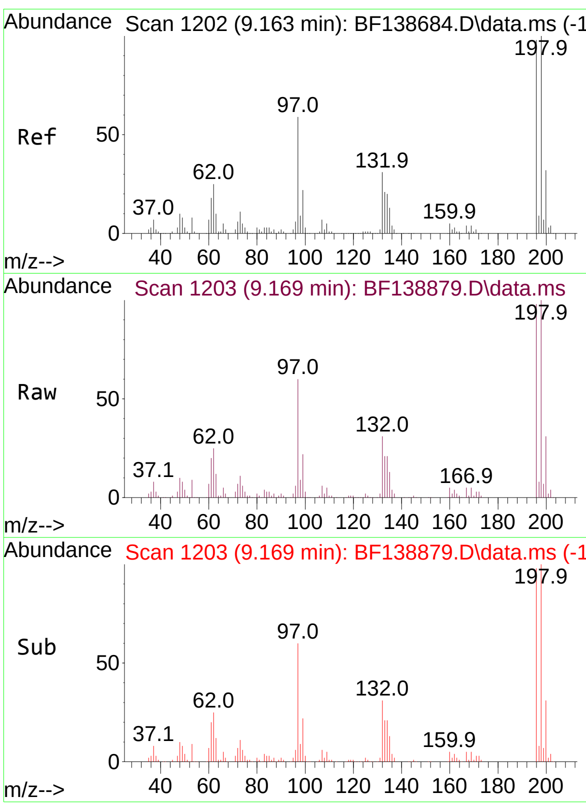


#43
2,4,6-Trichlorophenol
Concen: 39.044 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:196 Resp: 9990

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.5	120.7
200	32.1	25.9	38.9

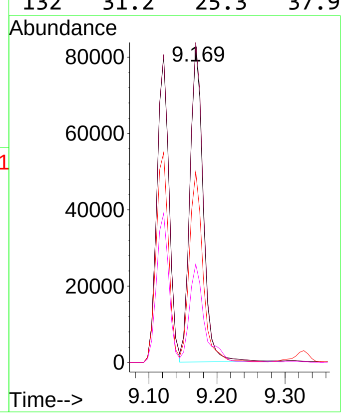


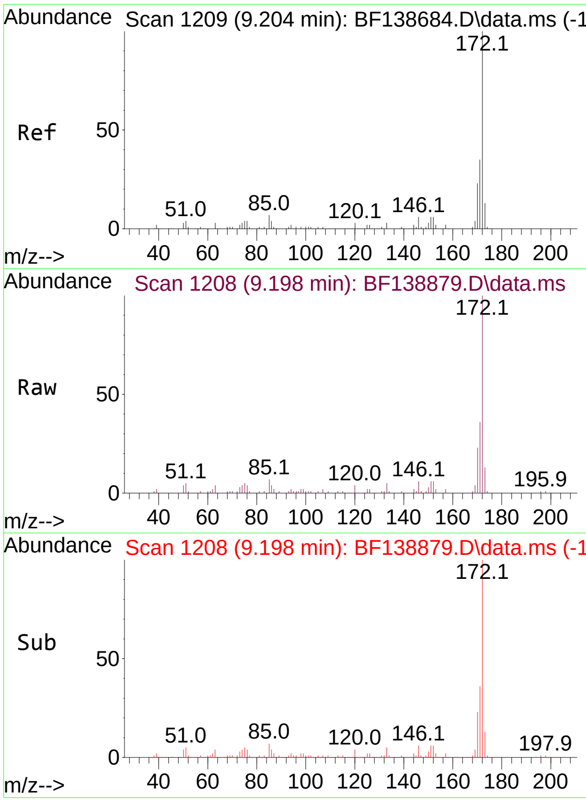


#44
2,4,5-Trichlorophenol
Concen: 39.672 ng
RT: 9.169 min Scan# 1203
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:196 Resp: 110978

Ion	Ratio	Lower	Upper
196	100		
198	101.5	81.2	121.8
97	60.5	47.8	71.6
132	31.2	25.3	37.9

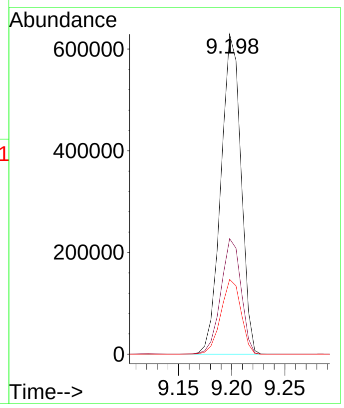




#45
2-Fluorobiphenyl
Concen: 82.084 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

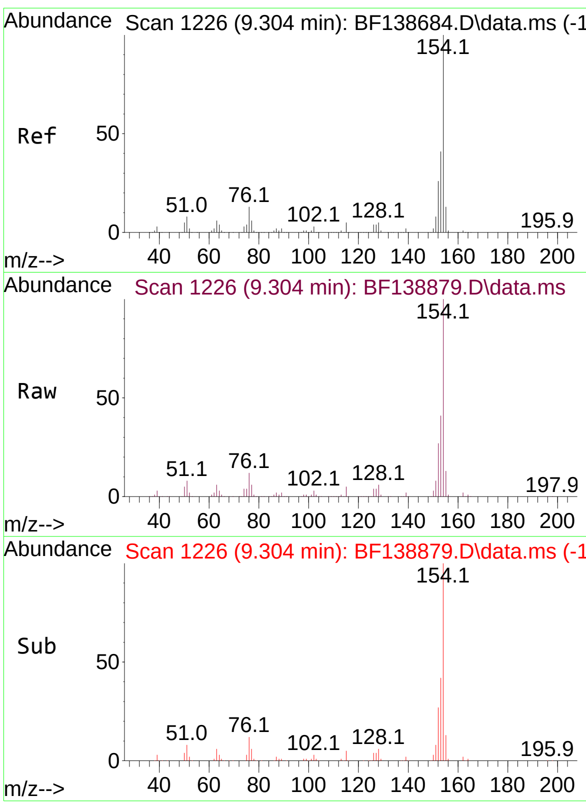
Tgt Ion:172 Resp: 82537

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.3	42.5
170	23.4	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

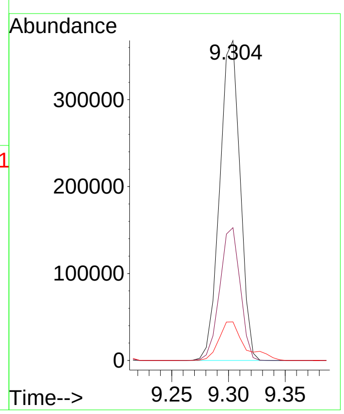
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024



#46
1,1'-Biphenyl
Concen: 39.023 ng
RT: 9.304 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:154 Resp: 461730

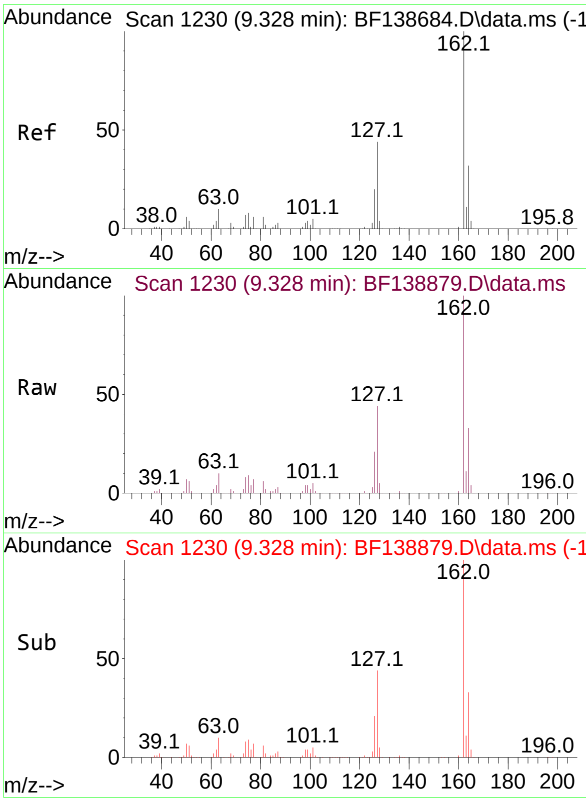
Ion	Ratio	Lower	Upper
154	100		
153	41.5	20.8	60.8
76	12.0	0.0	32.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

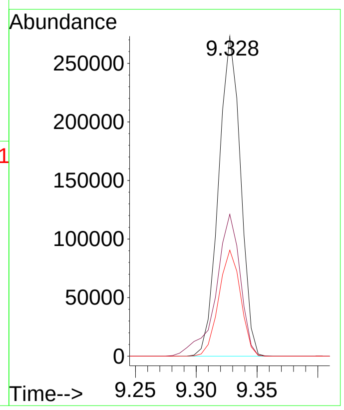
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

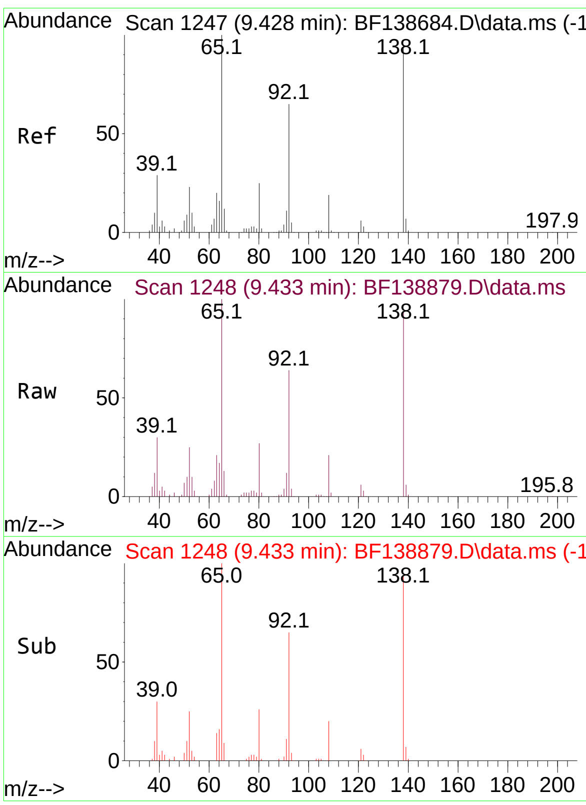


#47
2-Chloronaphthalene
Concen: 39.064 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:162 Resp: 34377

Ion	Ratio	Lower	Upper
162	100		
127	44.4	35.4	53.2
164	33.1	25.6	38.4

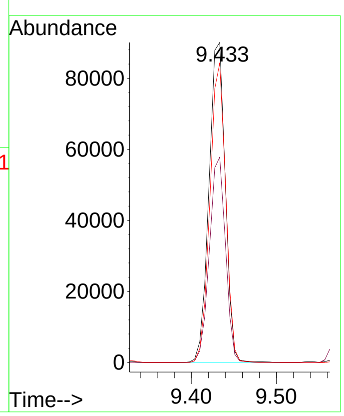




#48
2-Nitroaniline
Concen: 40.306 ng
RT: 9.433 min Scan# 1248
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 65 Resp: 120246

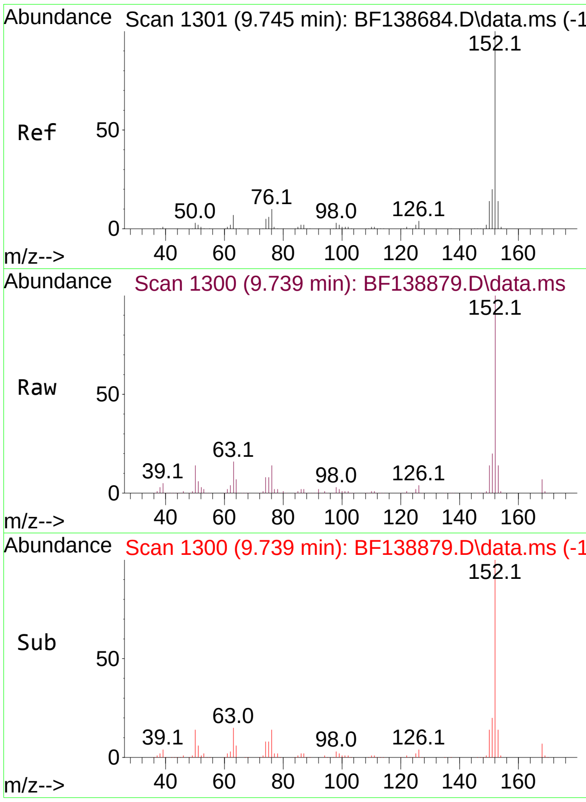
Ion	Ratio	Lower	Upper
65	100		
92	64.2	52.0	78.0
138	93.6	76.2	114.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

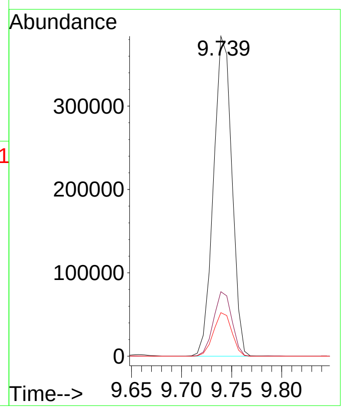
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

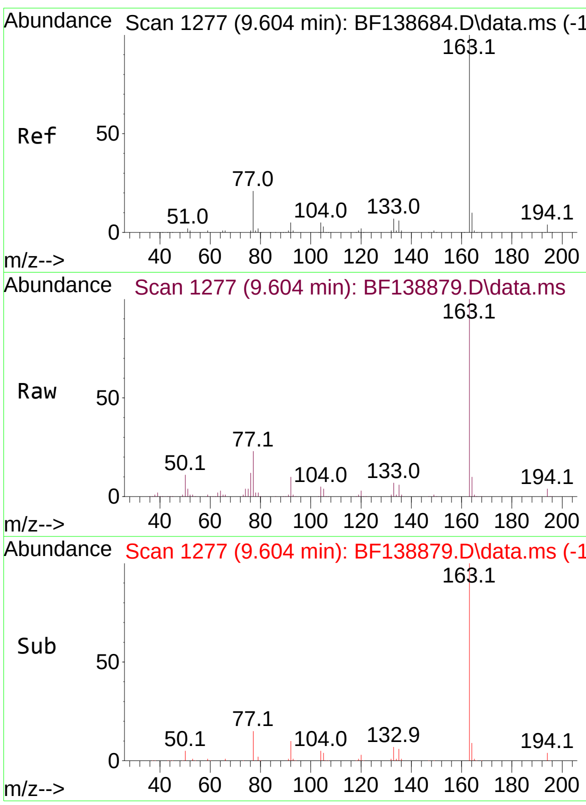


#49
Acenaphthylene
Concen: 39.295 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:152 Resp: 49045

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.6	11.0	16.4

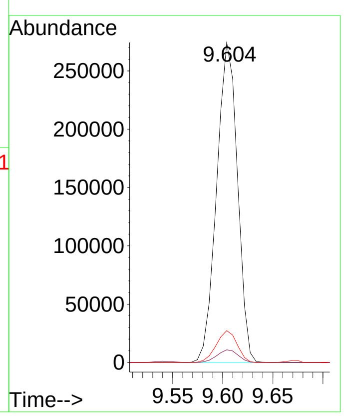




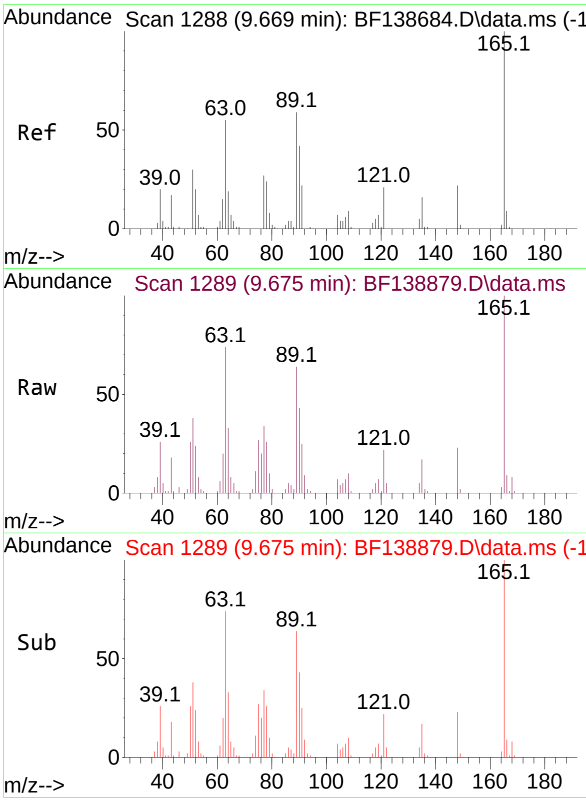
#50
Dimethylphthalate
Concen: 41.104 ng
RT: 9.604 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:163 Resp: 397073

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	9.9	7.8	11.8



Sample Results: **BF138879.D**



#51
2,6-Dinitrotoluene
Concen: 41.164 ng
RT: 9.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

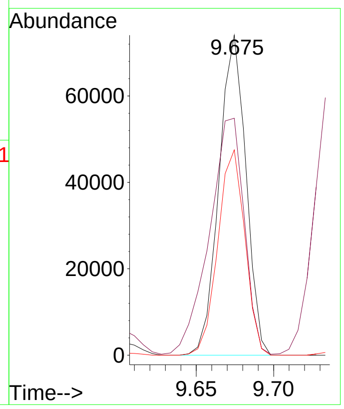
Tgt Ion:165 Resp: 8974

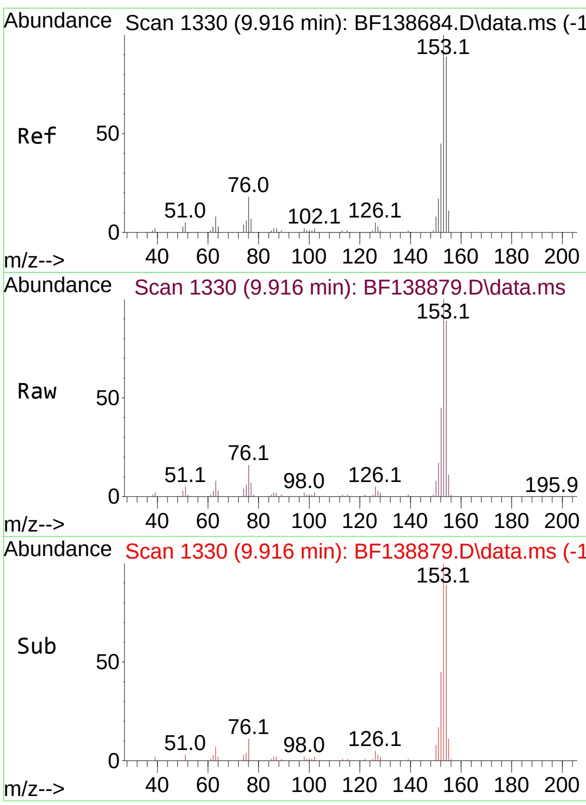
Ion	Ratio	Lower	Upper
165	100		
63	74.1	52.0	78.0
89	64.2	47.0	70.6

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

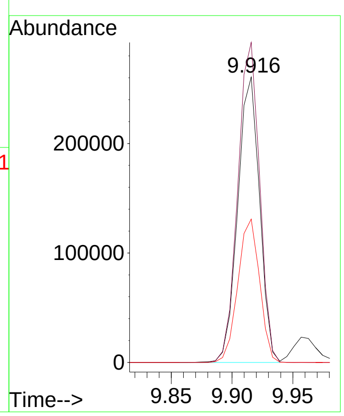


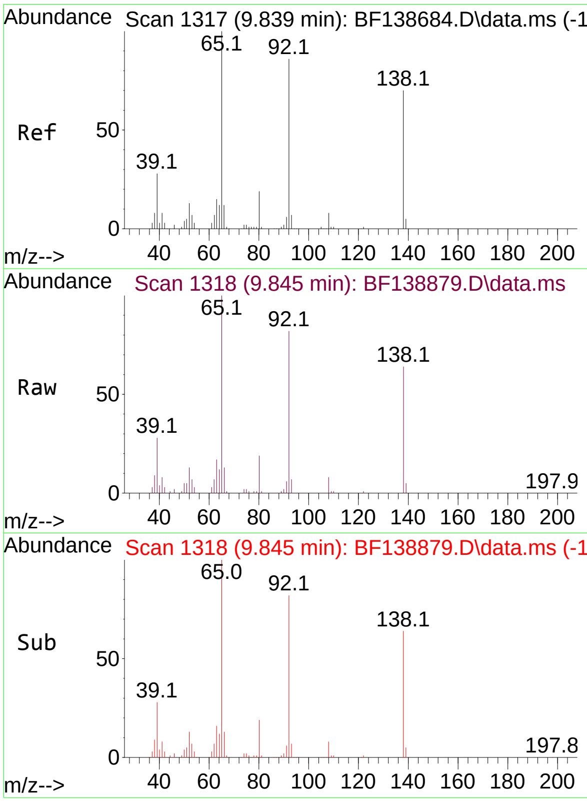


#52
Acenaphthene
Concen: 38.933 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:154 Resp: 326651

Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.9	134.9
152	50.3	40.6	60.8

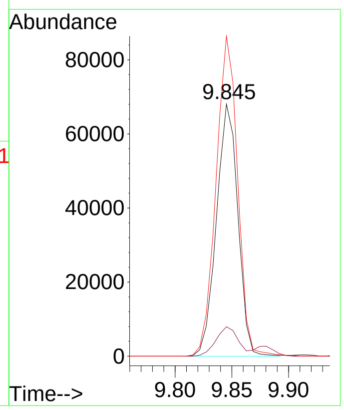




#53
3-Nitroaniline
Concen: 39.833 ng
RT: 9.845 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:138 Resp: 8977

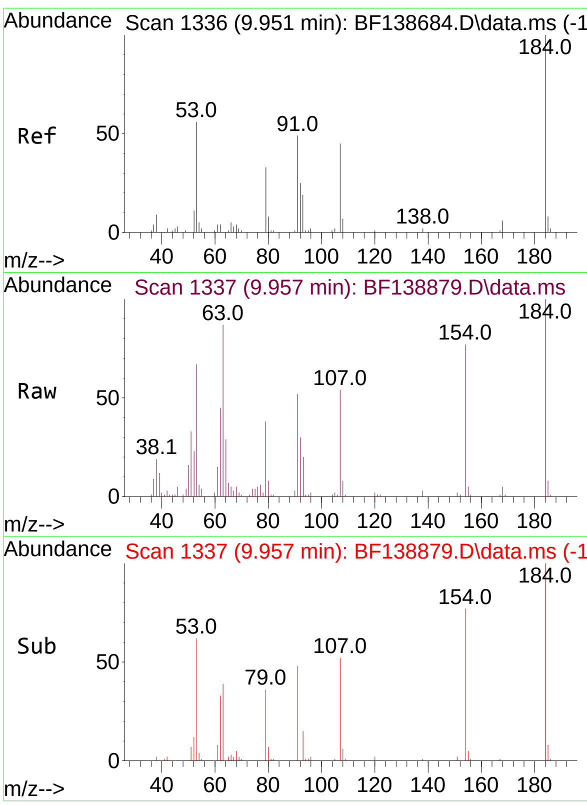
Ion	Ratio	Lower	Upper
138	100		
108	11.7	9.1	13.7
92	126.9	98.7	148.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

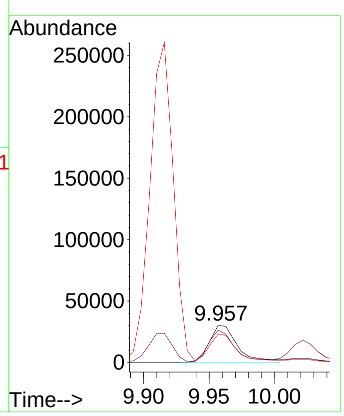
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

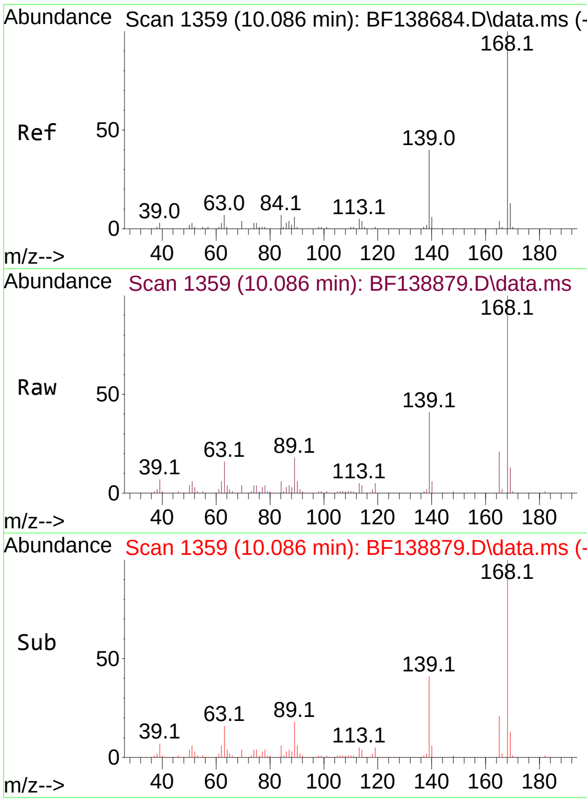


#54
2,4-Dinitrophenol
Concen: 45.240 ng
RT: 9.957 min Scan# 1337
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:184 Resp: 45402

Ion	Ratio	Lower	Upper
184	100		
63	87.4	57.5	86.3#
154	77.0	51.7	77.5

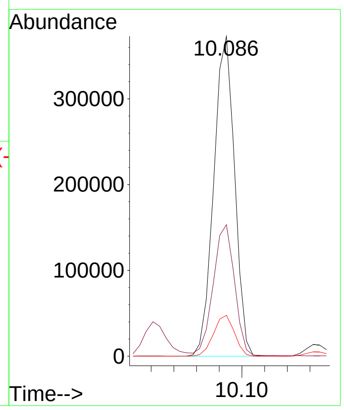




#55
Dibenzofuran
Concen: 40.270 ng
RT: 10.086 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:168 Resp: 47693

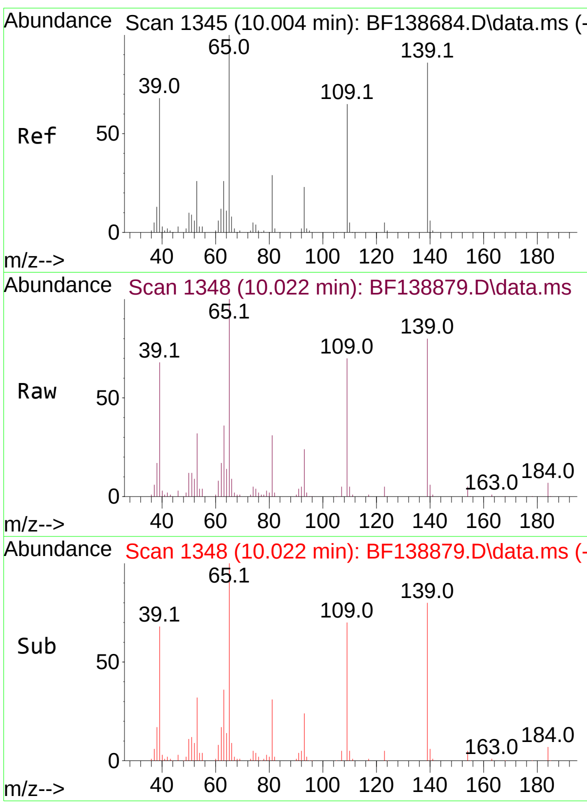
Ion	Ratio	Lower	Upper
168	100		
139	41.1	32.6	49.0
169	12.7	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

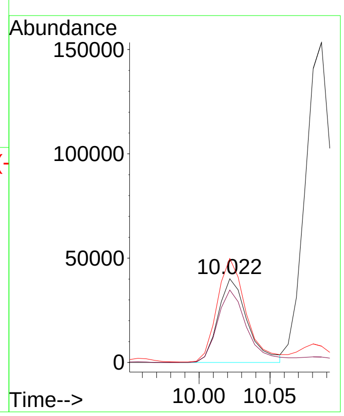
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024



#56
4-Nitrophenol
Concen: 42.666 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.018 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:139 Resp: 57826

Ion	Ratio	Lower	Upper
139	100		
109	86.6	55.5	95.5
65	124.3	96.7	136.7



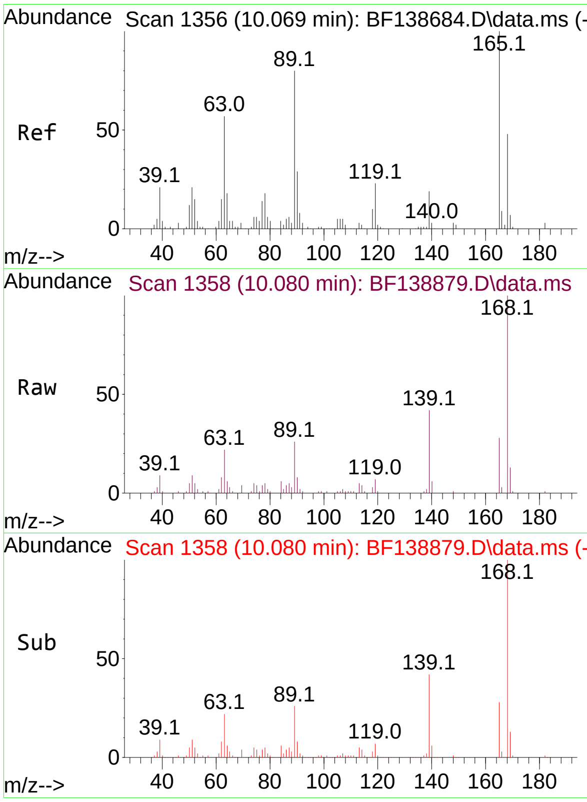
Instrument : BNA_F

ClientSampleId : SSTDCCC040

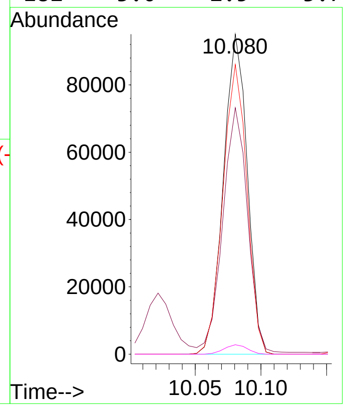
Manual Integrations APPROVED

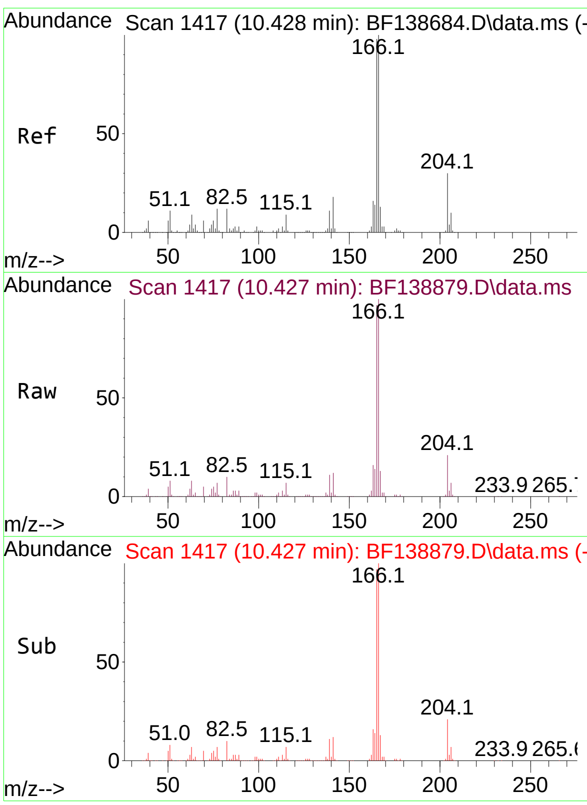
Reviewed By :Yogesh Patel 08/10/2024

Supervised By :mohammad ahmed 08/12/2024

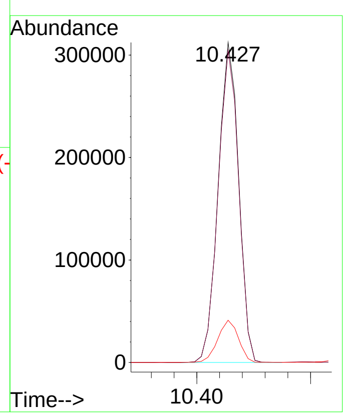


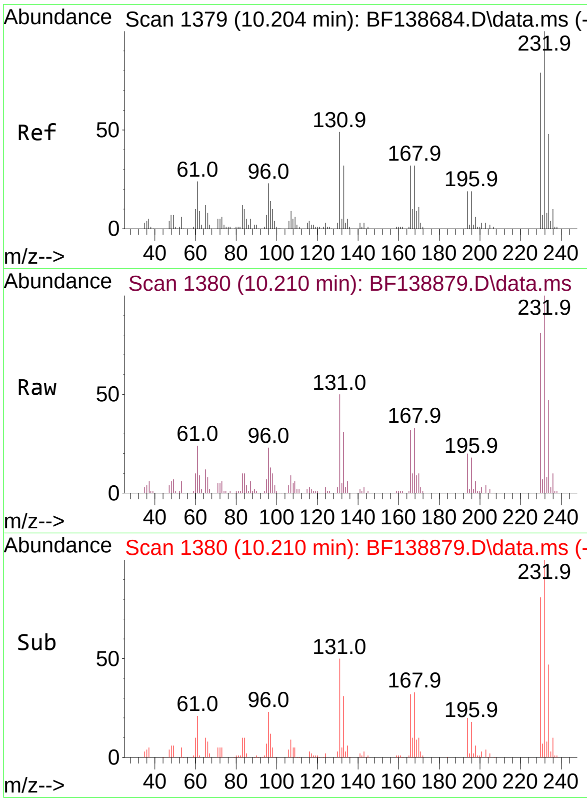

```
#57
2,4-Dinitrotoluene
Concen:   43.181 ng
RT:  10.080 min  Scan# 1
Delta R.T.  0.012 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:165 Resp:  12010
Ion  Ratio  Lower  Upper
165  100
 63   77.0   46.3   69.5#
 89   90.5   64.2   96.4
182    3.0    2.5    3.7
```






```
#58
Fluorene
Concen:   41.585 ng
RT:  10.427 min  Scan# 1417
Delta R.T.  -0.000 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:166 Resp:  392206
Ion  Ratio  Lower  Upper
166  100
165   97.5   78.4  117.6
167   13.2   10.6   16.0
```





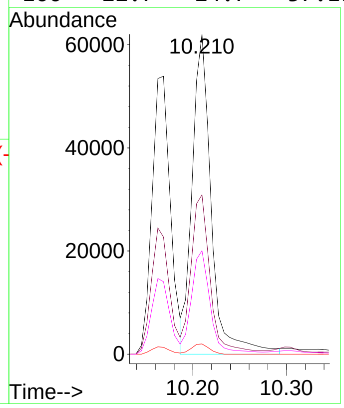
#59
2,3,4,6-Tetrachlorophenol
Concen: 41.037 ng m
RT: 10.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

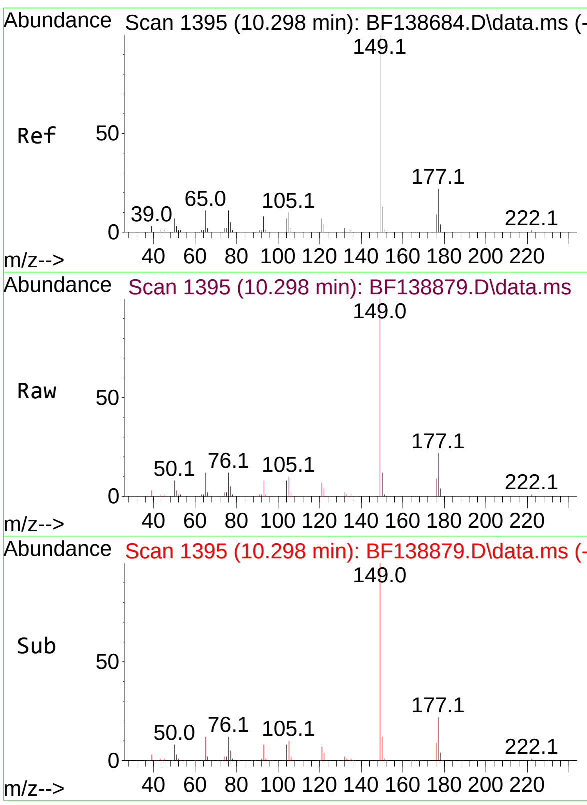
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 8776

Ion	Ratio	Lower	Upper
232	100		
131	37.2	37.0	55.4
130	2.2	2.0	3.0
166	22.7	24.7	37.1#

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

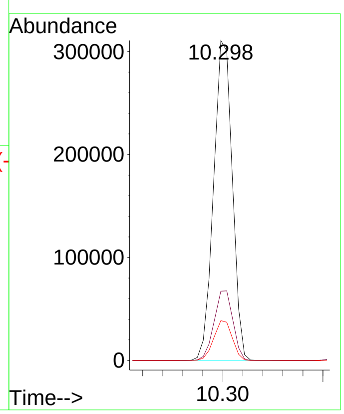




#60
Diethylphthalate
Concen: 43.927 ng
RT: 10.298 min Scan# 1395
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:149 Resp: 402355

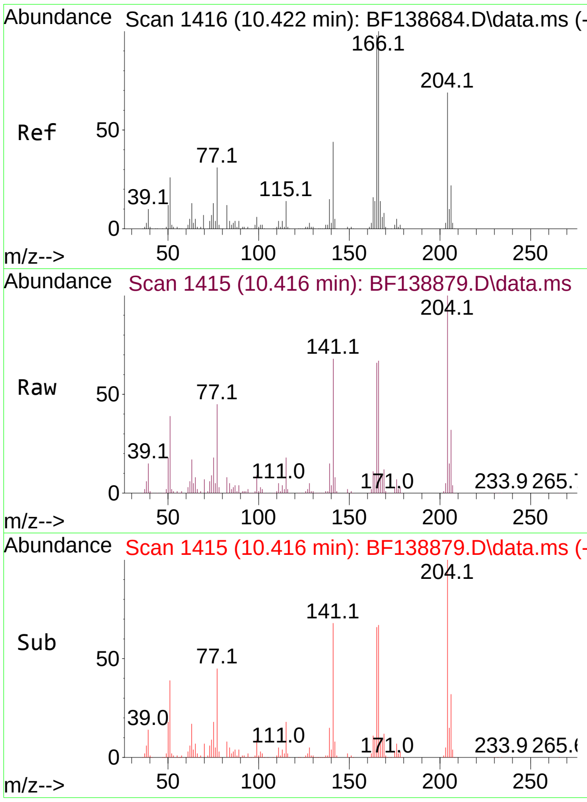
Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.8	26.8
150	12.4	10.1	15.1



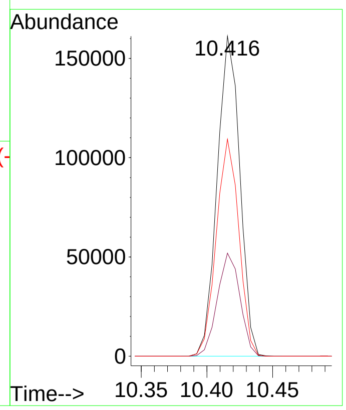
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

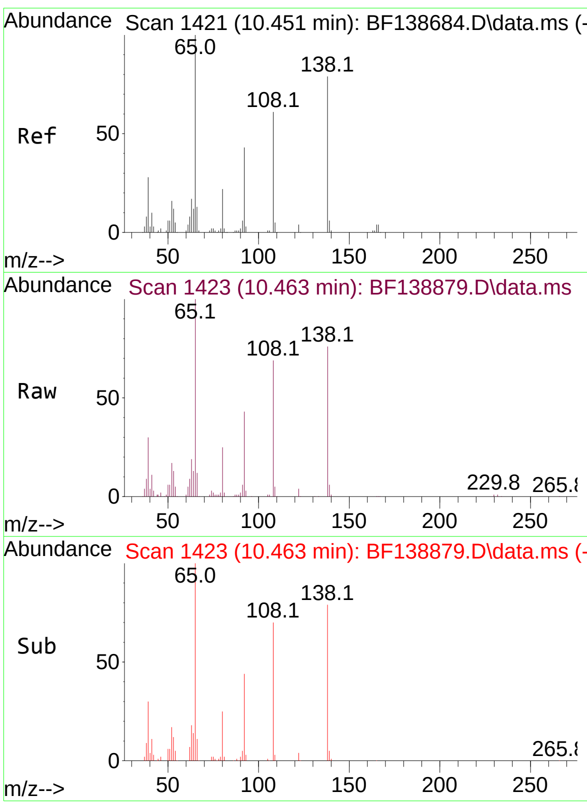
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

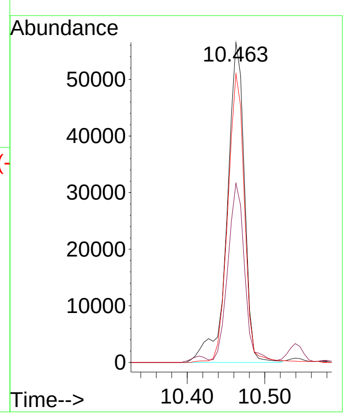



```
#61
4-Chlorophenyl-phenylether
Concen:   41.737 ng
RT:  10.416 min  Scan# 14
Delta R.T.   -0.006 min
Lab File:    BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:204 Resp:  193596
Ion  Ratio  Lower  Upper
204  100
206   32.2   26.1   39.1
141   67.8   51.4   77.0
```





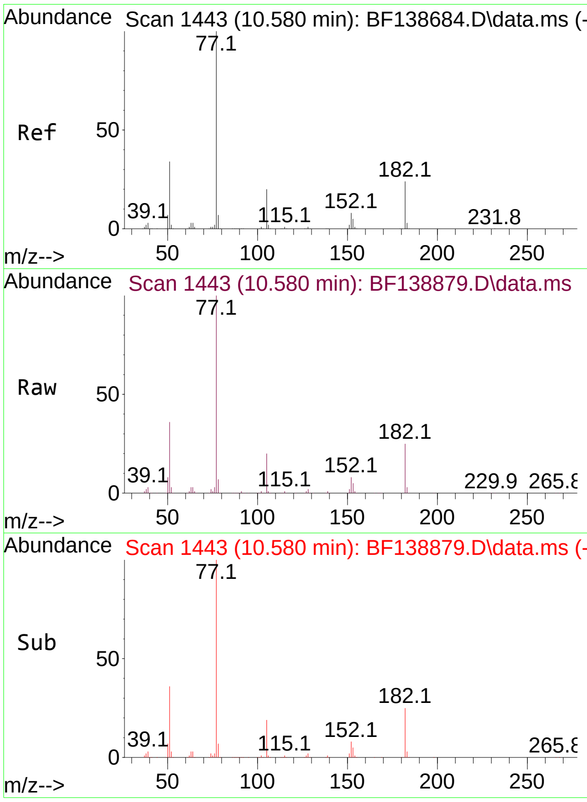

```
#62
4-Nitroaniline
Concen:   41.114 ng
RT:  10.463 min  Scan# 1423
Delta R.T.   0.012 min
Lab File:    BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:138 Resp:   88058
Ion  Ratio  Lower  Upper
138  100
 92   56.0   34.2   74.2
108   90.2   56.2   96.2
```



Instrument : BNA_F
ClientSampleId : SSTDCCC040

Manual Integrations APPROVED

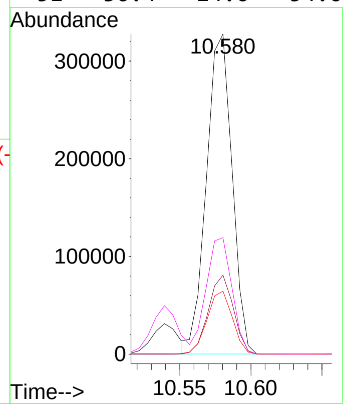
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

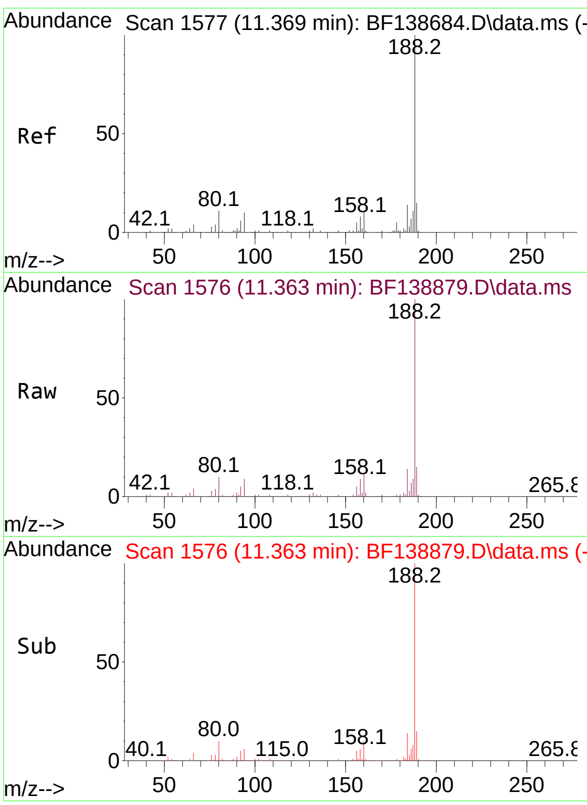


#63
Azobenzene
Concen: 40.571 ng
RT: 10.580 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 77 Resp: 41215

Ion	Ratio	Lower	Upper
77	100		
182	24.7	3.4	43.4
105	19.7	0.2	40.2
51	36.4	14.6	54.6

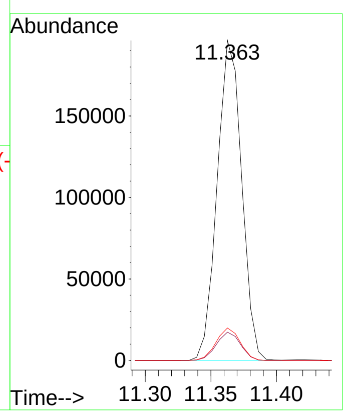




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

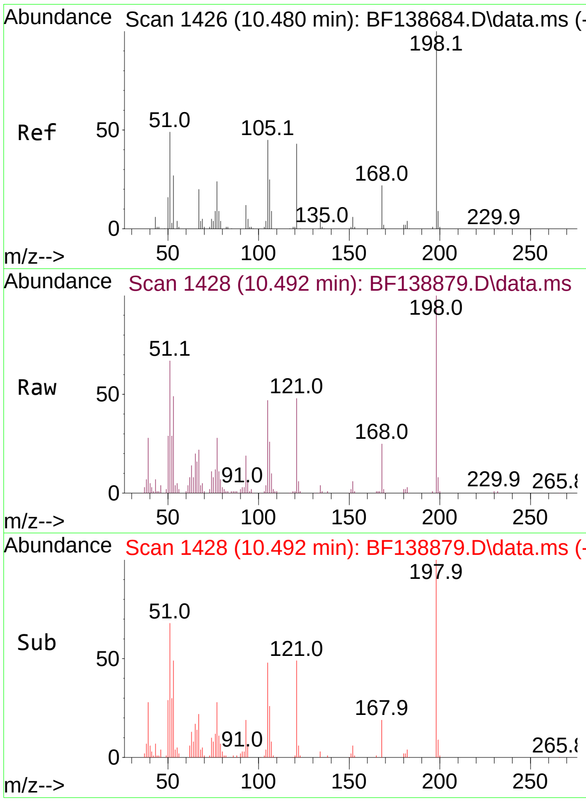
Tgt Ion:188 Resp: 254940

Ion	Ratio	Lower	Upper
188	100		
94	8.8	7.6	11.4
80	10.2	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

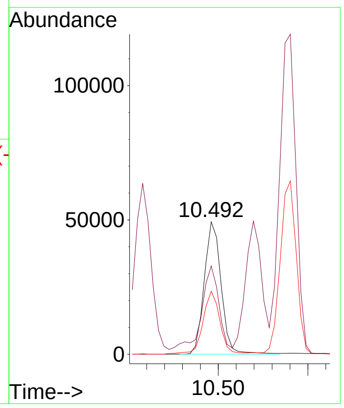
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

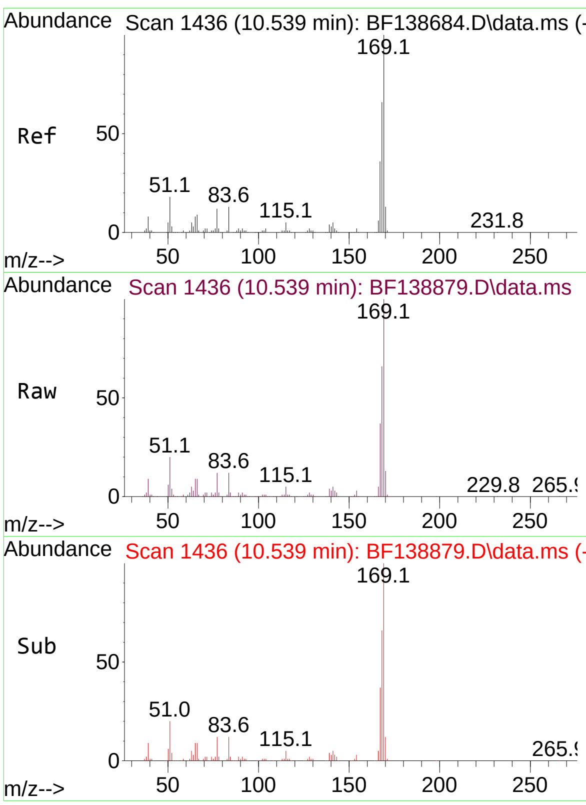


#65
4,6-Dinitro-2-methylphenol
Concen: 41.494 ng
RT: 10.492 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:198 Resp: 6453

Ion	Ratio	Lower	Upper
198	100		
51	66.7	39.9	79.9
105	47.4	26.1	66.1

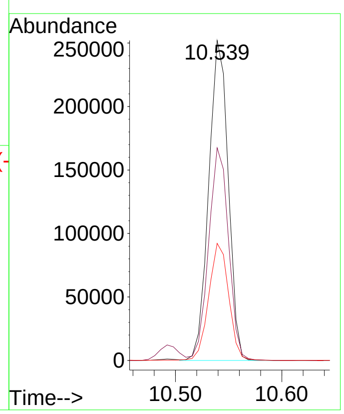


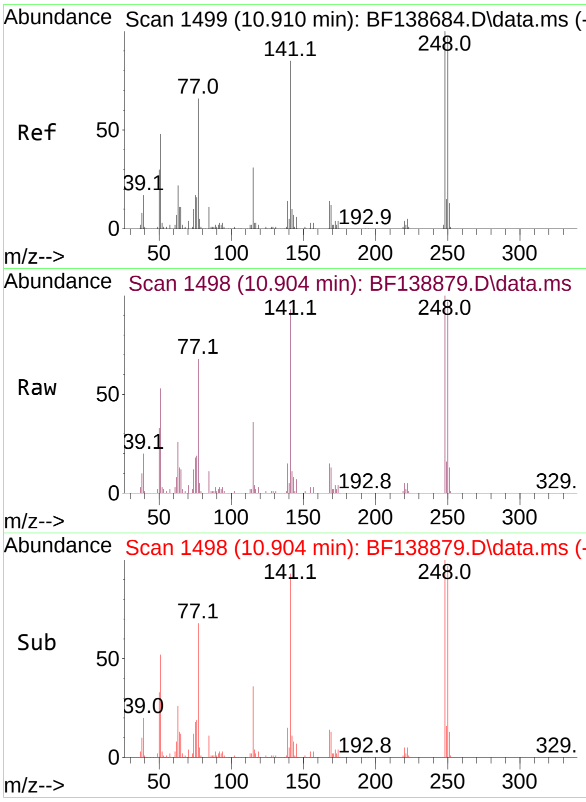


#66
n-Nitrosodiphenylamine
Concen: 40.327 ng
RT: 10.539 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:169 Resp: 321358

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.0	79.6
167	36.6	29.0	43.6





#67
4-Bromophenyl-phenylether
Concen: 40.221 ng
RT: 10.904 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

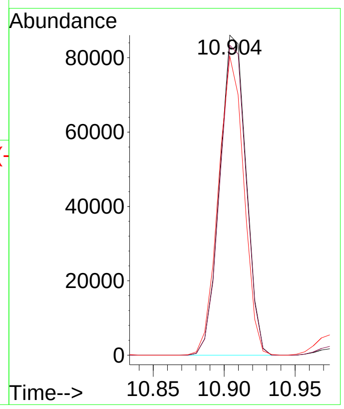
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

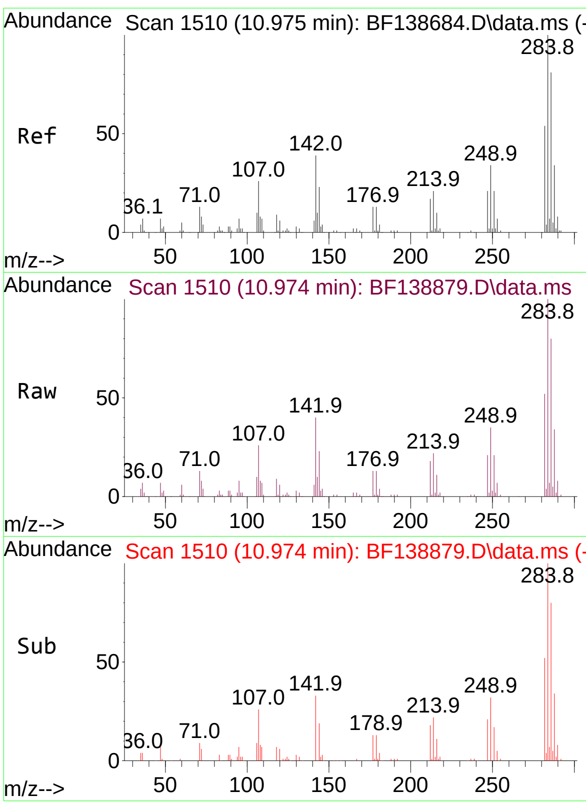
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

Tgt Ion:248 Resp: 11101

Ion	Ratio	Lower	Upper
248	100		
250	96.9	77.7	116.5
141	93.4	68.0	102.0

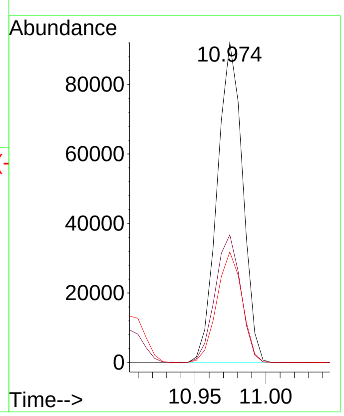




#68
Hexachlorobenzene
Concen: 40.333 ng
RT: 10.974 min Scan# 1510
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:284 Resp: 114946

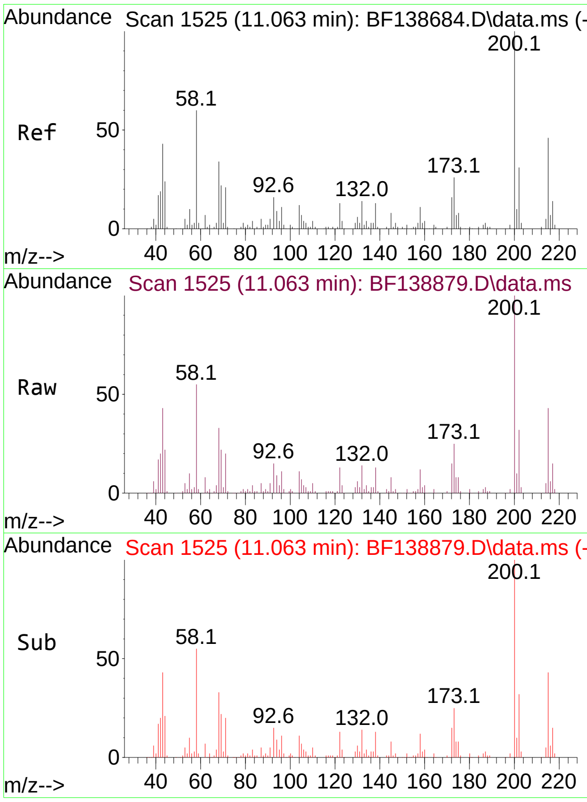
Ion	Ratio	Lower	Upper
284	100		
142	39.9	31.3	46.9
249	34.5	27.2	40.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

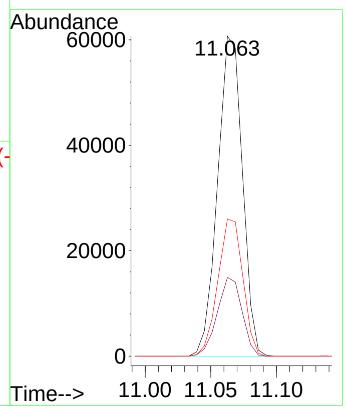
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

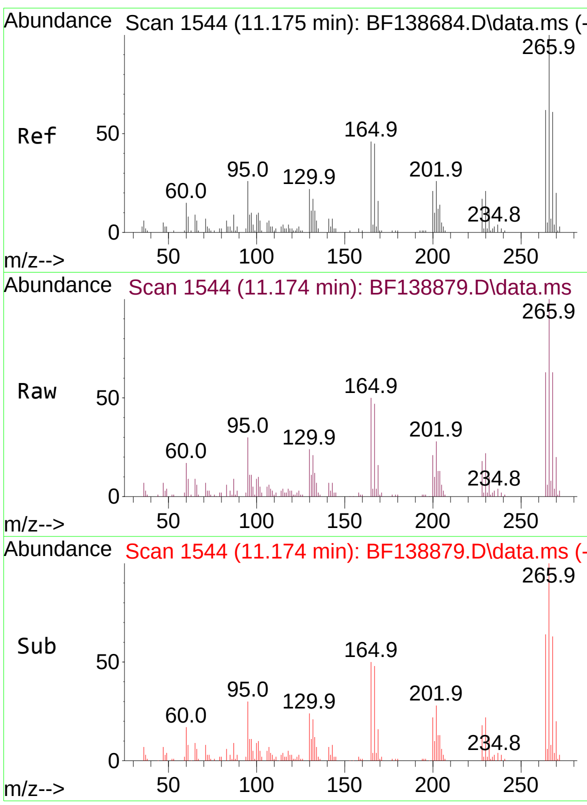


#69
Atrazine
Concen: 38.753 ng
RT: 11.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:200 Resp: 7967

Ion	Ratio	Lower	Upper
200	100		
173	24.6	6.0	46.0
215	42.8	26.1	66.1

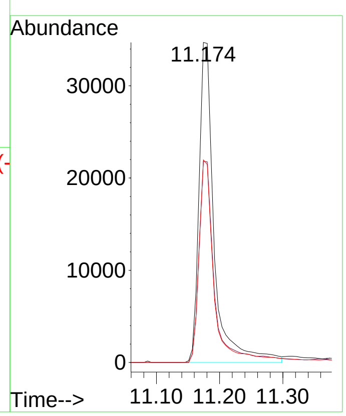


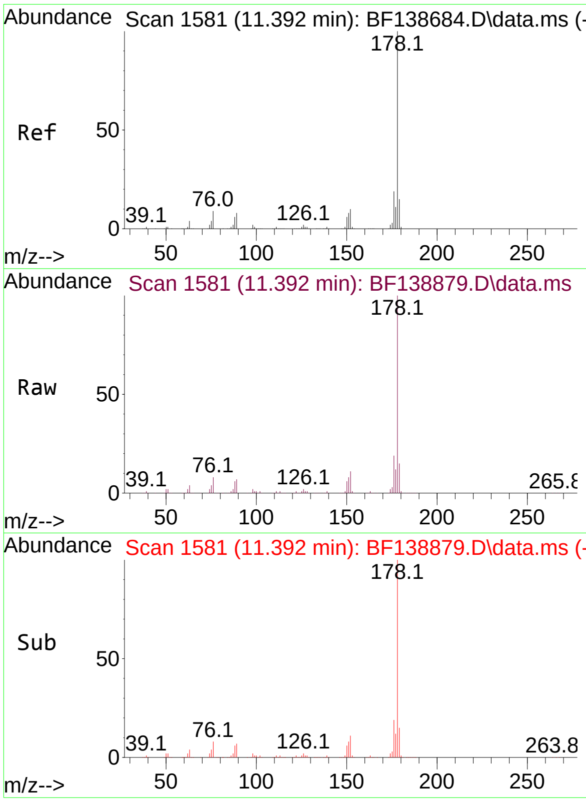


#70
Pentachlorophenol
Concen: 45.355 ng
RT: 11.174 min Scan# 1544
Delta R.T. -0.001 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:266 Resp: 58263

Ion	Ratio	Lower	Upper
266	100		
268	62.9	49.2	73.8
264	63.3	49.8	74.6





#71
Phenanthrene
Concen: 40.124 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

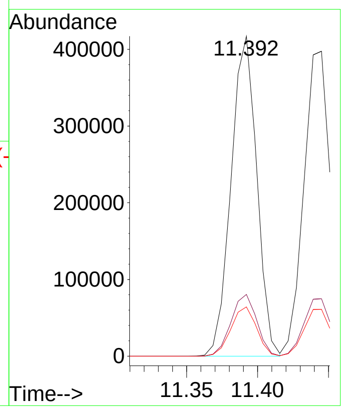
Tgt Ion:178 Resp: 52671

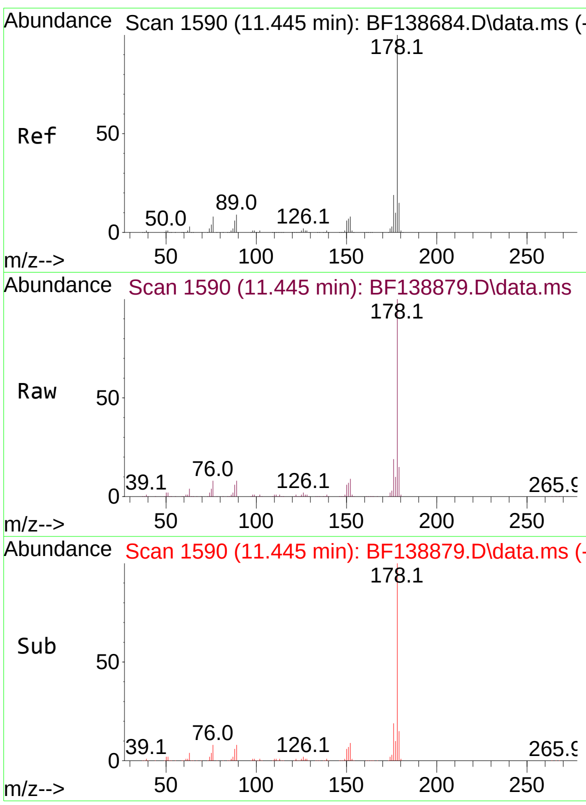
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.4	12.2	18.2

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

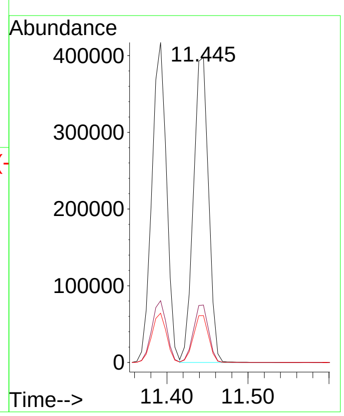




#72
Anthracene
Concen: 40.206 ng
RT: 11.445 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

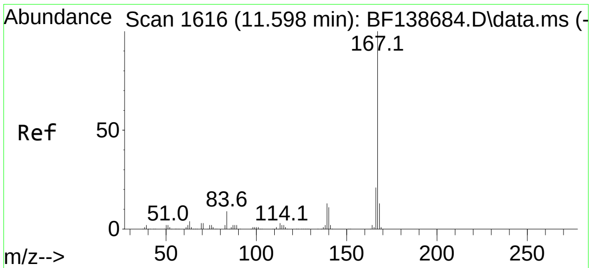
Tgt Ion:178 Resp: 519957

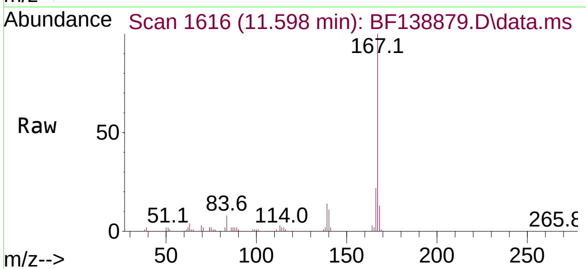
Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.4	12.4	18.6

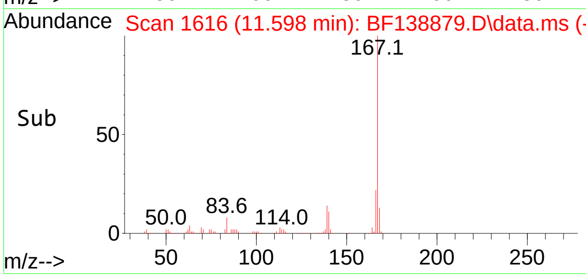


Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

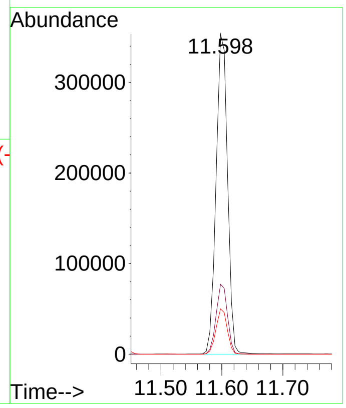


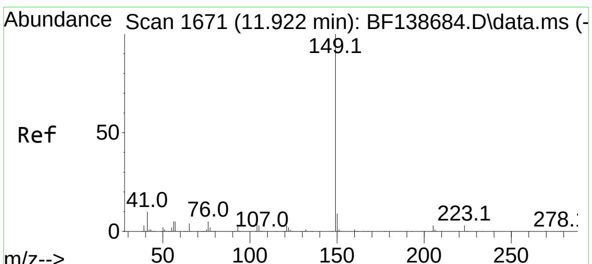


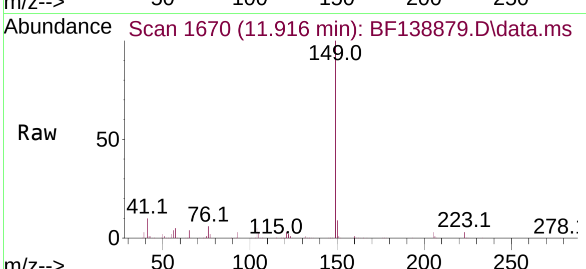


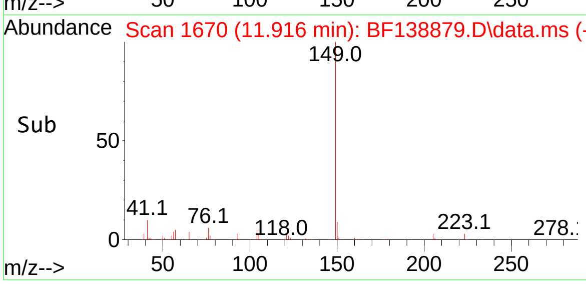
#73
Carbazole
Concen: 41.459 ng
RT: 11.598 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:167 Resp: 46256
Ion Ratio Lower Upper
167 100
166 21.8 17.2 25.8
139 14.1 10.6 16.0



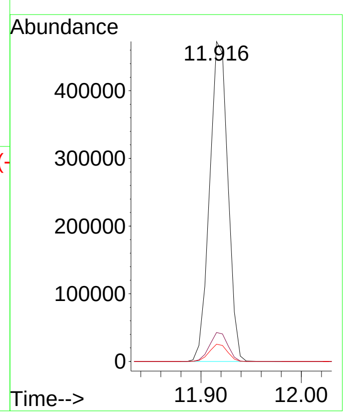


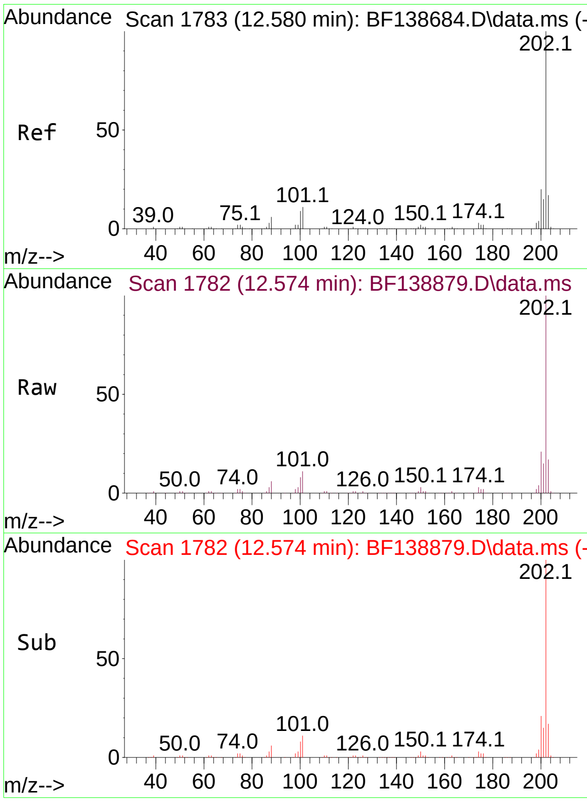




#74
Di-n-butylphthalate
Concen: 47.835 ng
RT: 11.916 min Scan# 1670
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:149 Resp: 599976
Ion Ratio Lower Upper
149 100
150 9.0 7.4 11.0
104 5.4 4.1 6.1





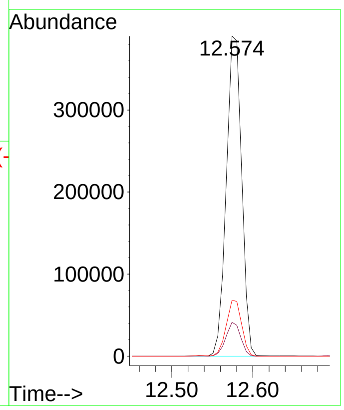
#75
Fluoranthene
Concen: 42.213 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

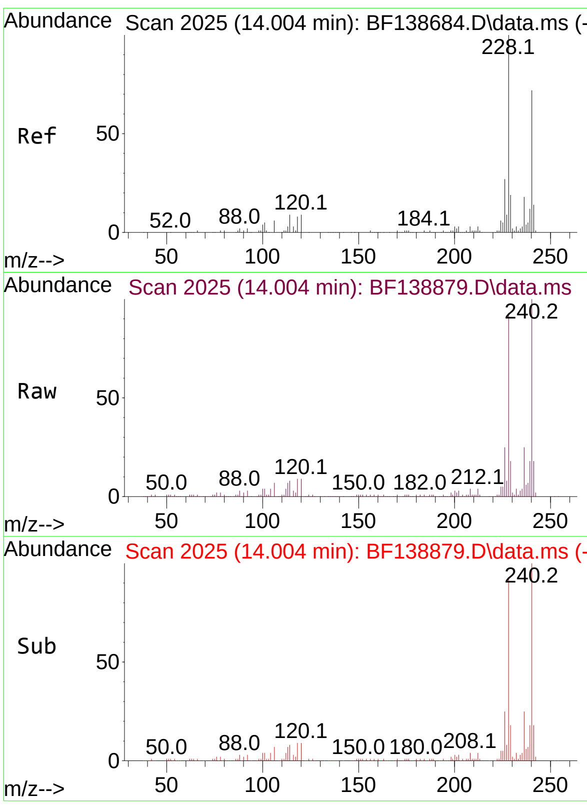
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 51733

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.2
203	17.5	0.0	37.3

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

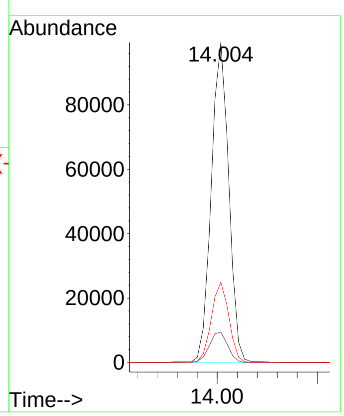


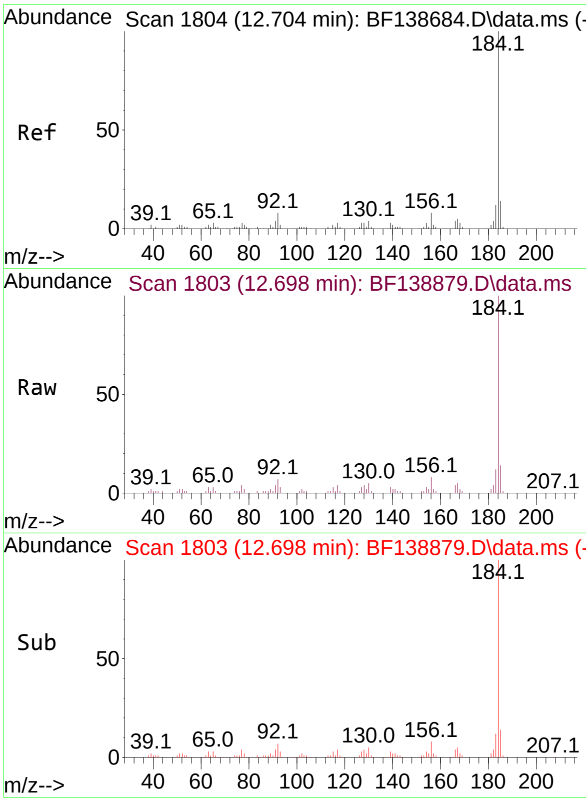


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:240 Resp: 120643

Ion	Ratio	Lower	Upper
240	100		
120	9.5	10.2	15.4#
236	25.1	19.8	29.8





#77
Benzidine
Concen: 39.838 ng
RT: 12.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

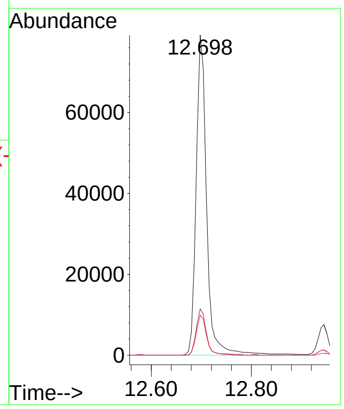
Tgt Ion:184 Resp: 11495

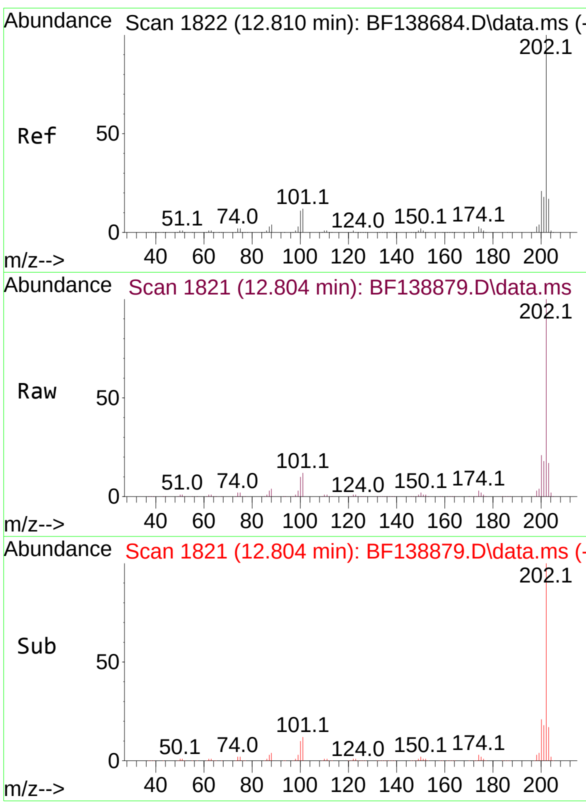
Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.1	16.7
183	12.5	9.6	14.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

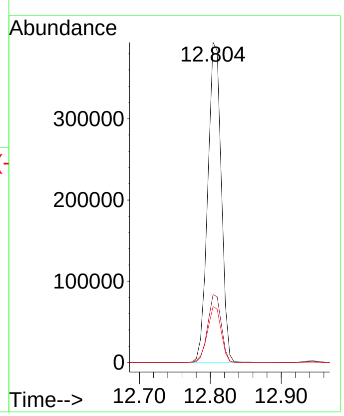


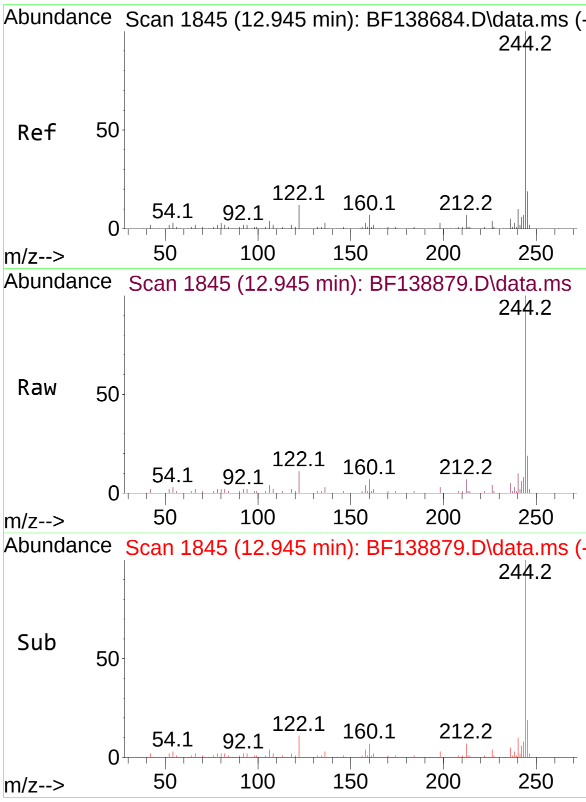


#78
Pyrene
Concen: 45.976 ng
RT: 12.804 min Scan# 1821
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

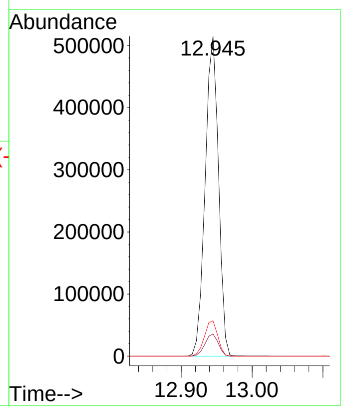
Tgt Ion:202 Resp: 522241

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.5	13.8	20.6





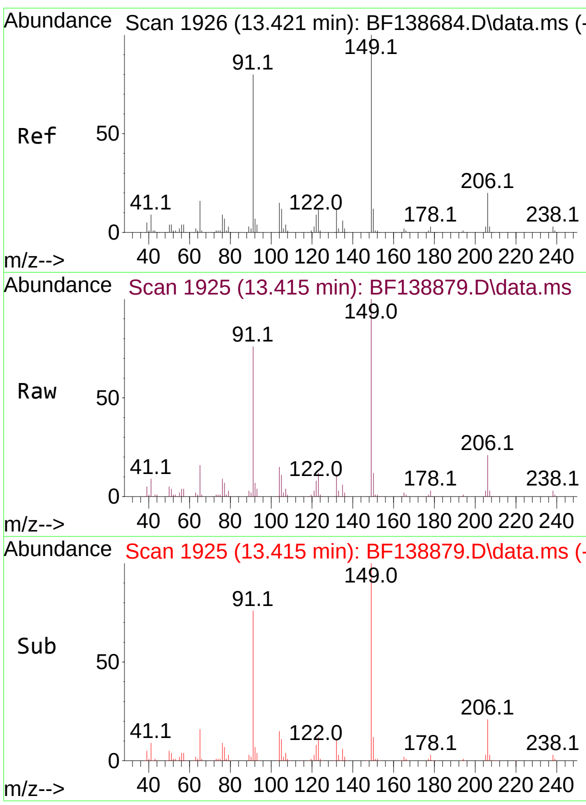

```
#79
Terphenyl-d14
Concen:   93.624 ng
RT:  12.945 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:244 Resp:  67463
Ion  Ratio  Lower  Upper
244  100
212    7.0    5.4    8.2
122   11.0    9.6   14.4
```



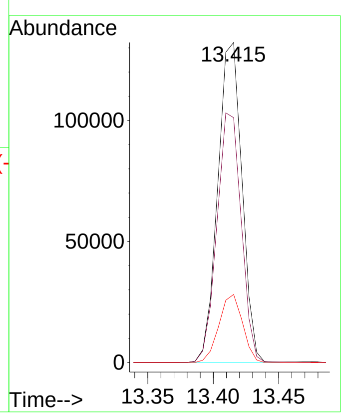
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024



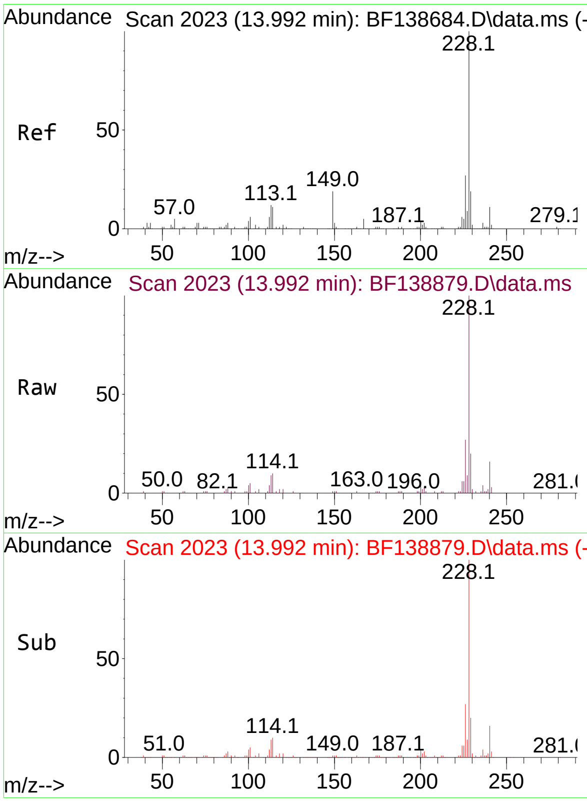

```
#80
Butylbenzylphthalate
Concen:   46.724 ng
RT:  13.415 min  Scan# 1925
Delta R.T.  -0.006 min
Lab File:   BF138879.D
Acq: 09 Aug 2024  09:48

Tgt Ion:149 Resp:  169955
Ion  Ratio  Lower  Upper
149  100
 91   76.5   63.7   95.5
206   21.3   16.2   24.2
```



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

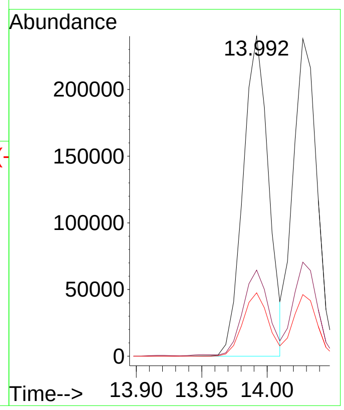
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

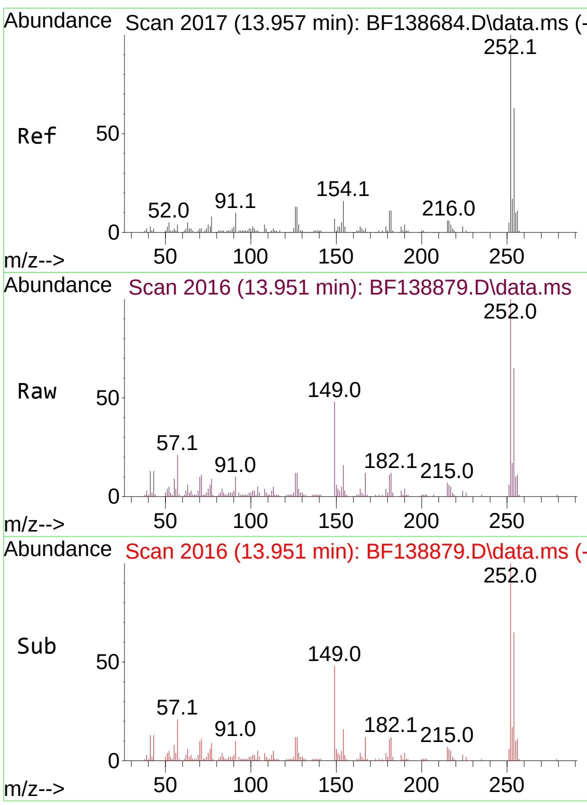


#81
Benzo(a)anthracene
Concen: 39.294 ng
RT: 13.992 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:228 Resp: 32644

Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.1	33.1
229	19.8	15.4	23.0

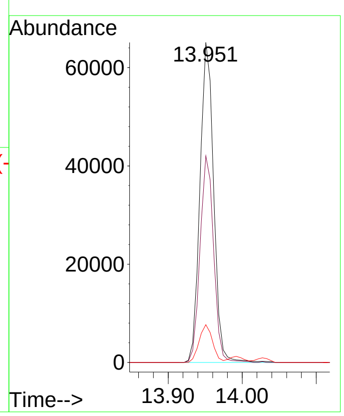




#82
3,3'-Dichlorobenzidine
Concen: 39.408 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

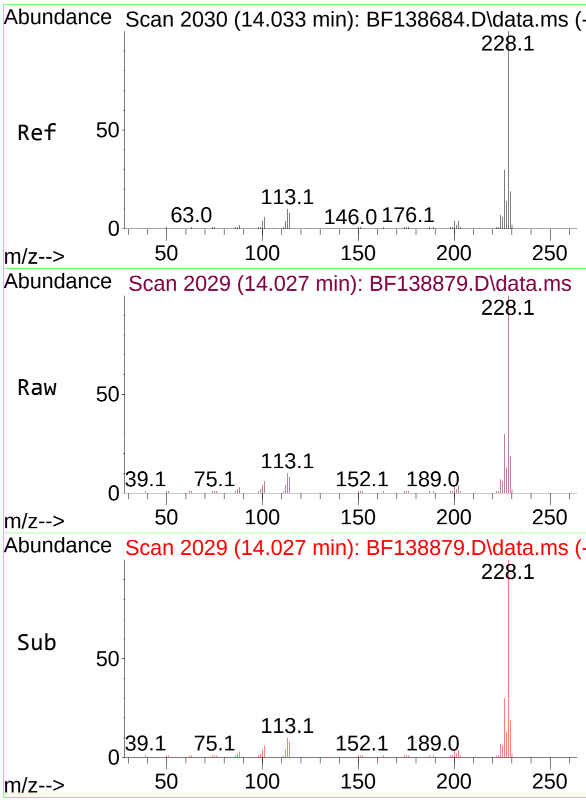
Tgt Ion:252 Resp: 83780

Ion	Ratio	Lower	Upper
252	100		
254	64.6	50.8	76.2
126	11.8	10.2	15.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

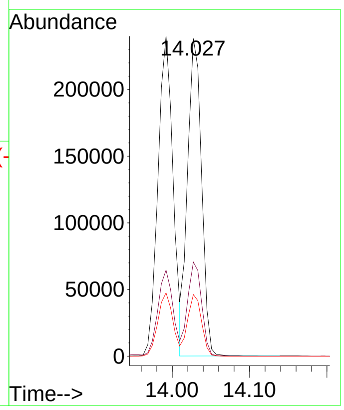
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

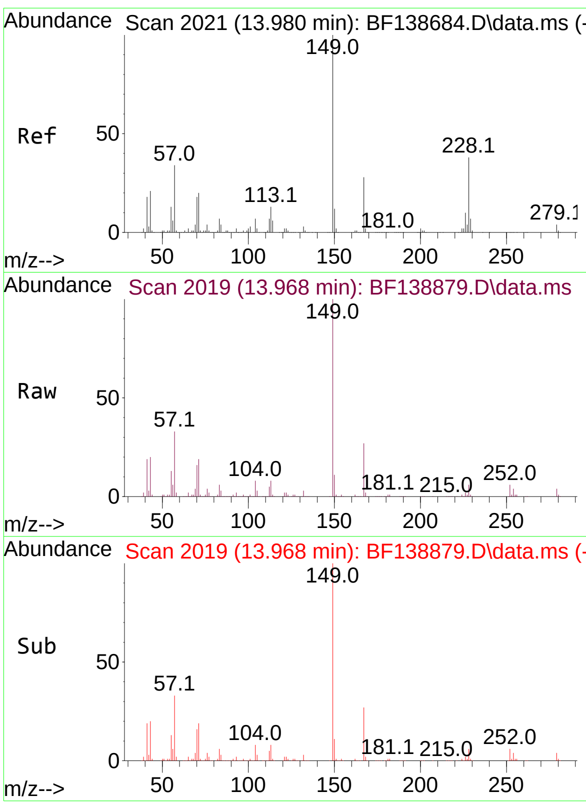


#83
Chrysene
Concen: 39.995 ng
RT: 14.027 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:228 Resp: 29977

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.7	35.5
229	19.4	15.0	22.6

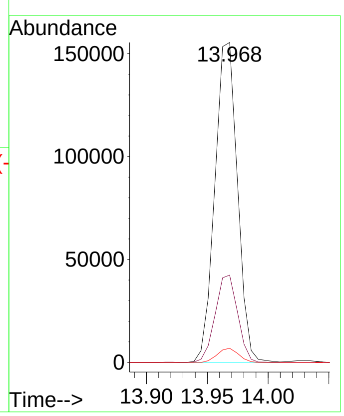


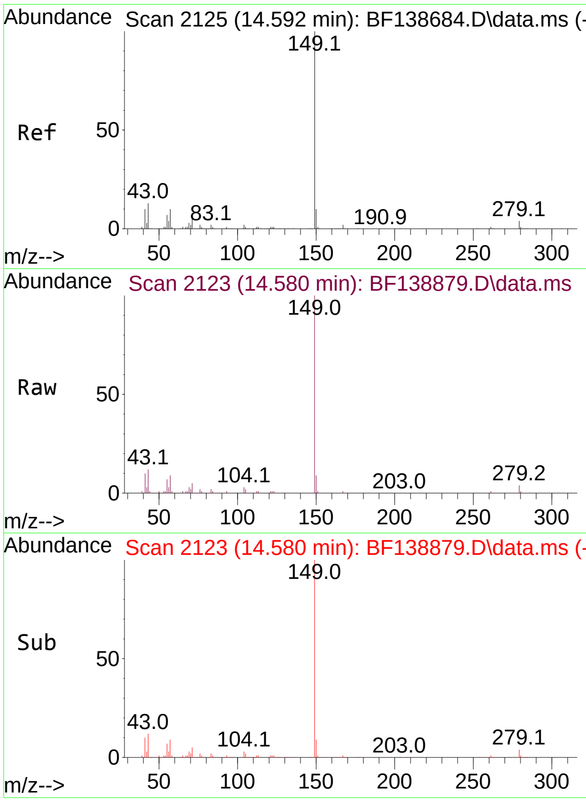


#84
Bis(2-ethylhexyl)phthalate
Concen: 37.893 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:149 Resp: 201833

Ion	Ratio	Lower	Upper
149	100		
167	27.3	22.2	33.4
279	4.5	3.4	5.0

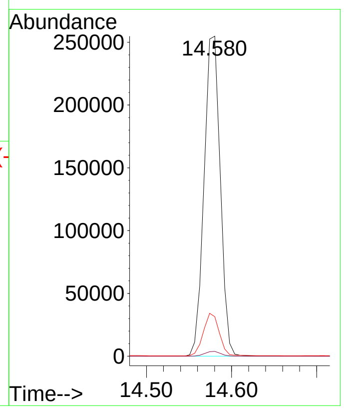




#85
Di-n-octyl phthalate
Concen: 34.265 ng
RT: 14.580 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

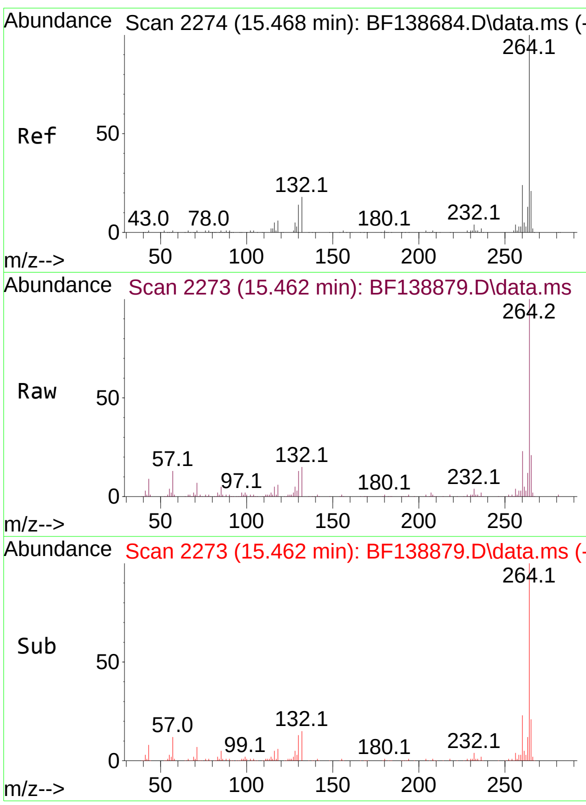
Tgt Ion:149 Resp: 33767

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.4	2.0
43	13.1	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

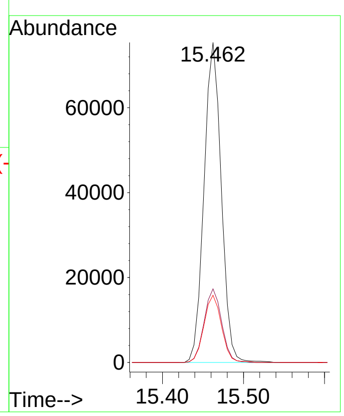
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:264 Resp: 111360

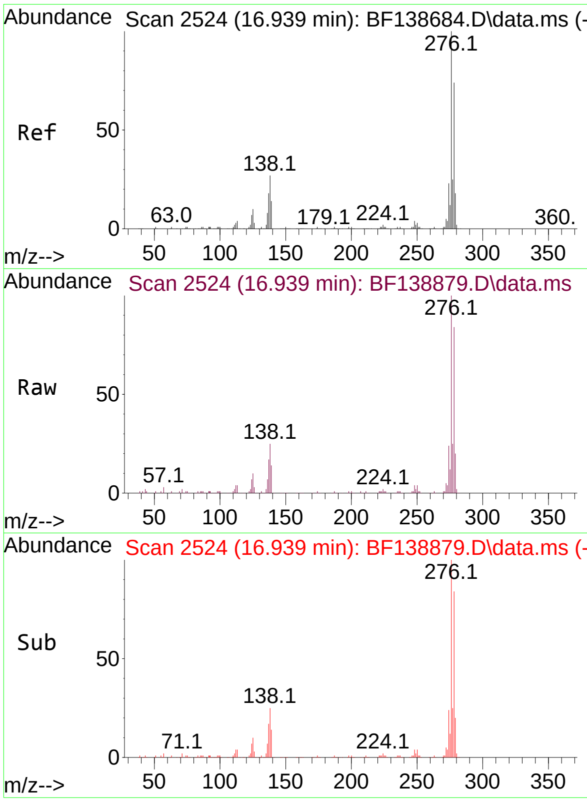
Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.0	28.6
265	21.0	17.0	25.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

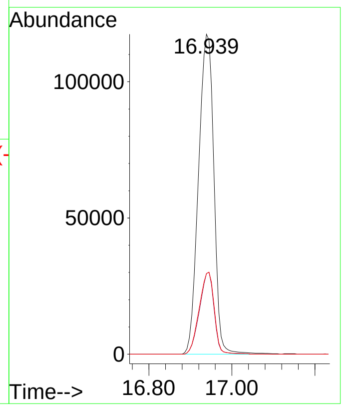
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

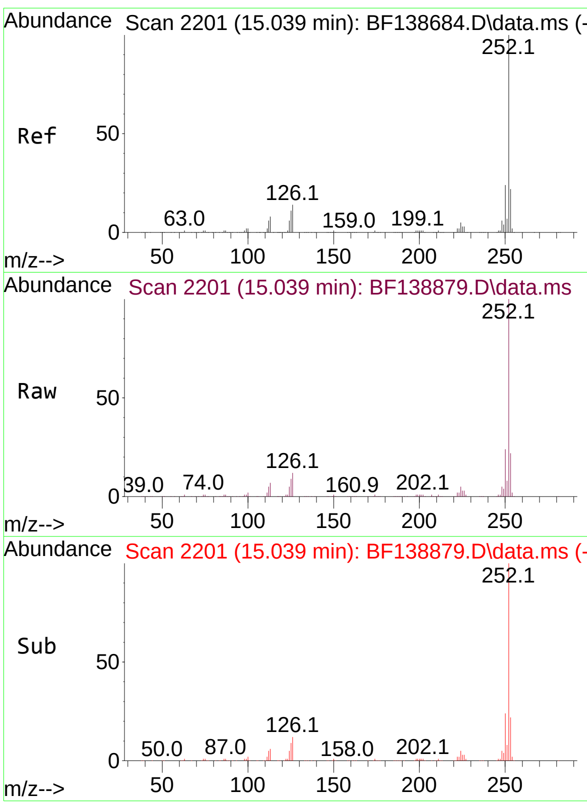


#87
Indeno(1,2,3-cd)pyrene
Concen: 37.875 ng
RT: 16.939 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:276 Resp: 30226

Ion	Ratio	Lower	Upper
276	100		
138	24.1	21.8	32.8
277	25.2	20.6	30.8

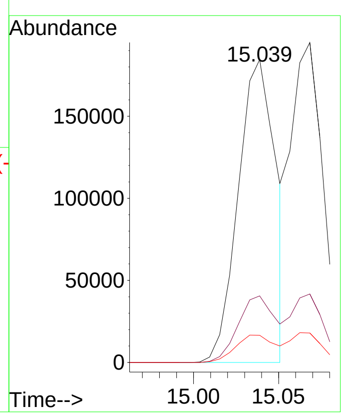


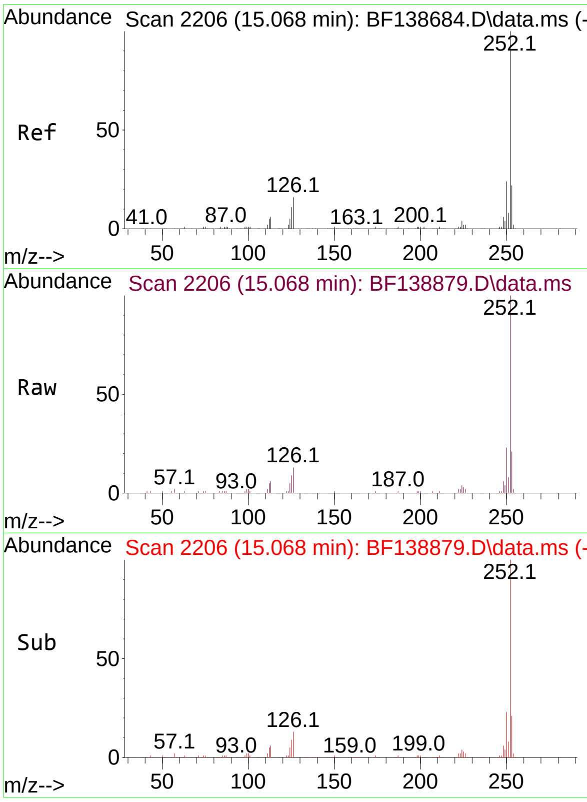


#88
Benzo(b)fluoranthene
Concen: 40.751 ng
RT: 15.039 min Scan# 2201
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:252 Resp: 281311

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.0	8.9	13.3





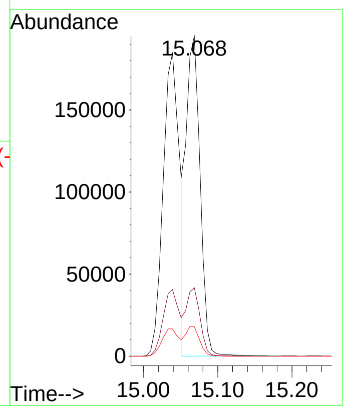
#89
Benzo(k)fluoranthene
Concen: 43.068 ng
RT: 15.068 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

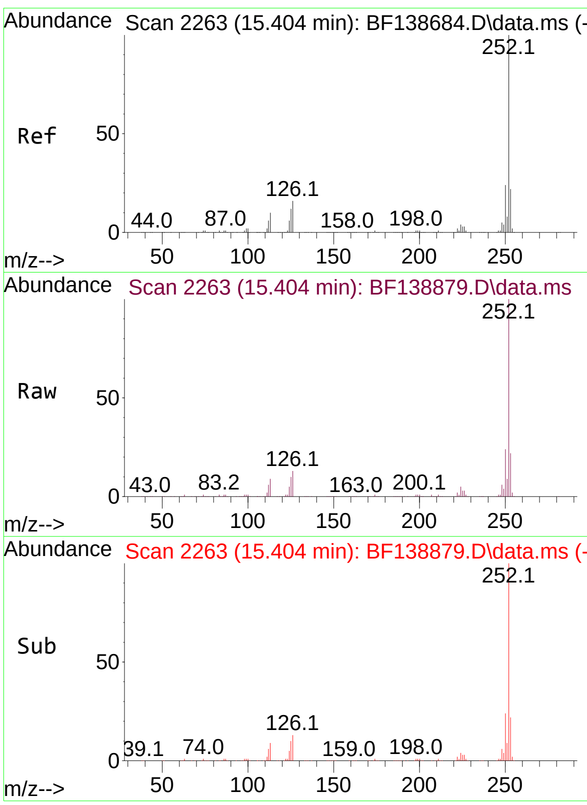
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 25741

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.0
125	9.2	8.6	13.0

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

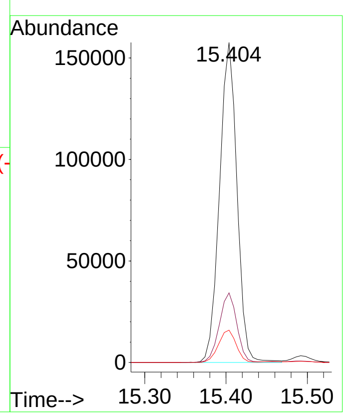




#90
Benzo(a)pyrene
Concen: 40.615 ng
RT: 15.404 min Scan# 2263
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

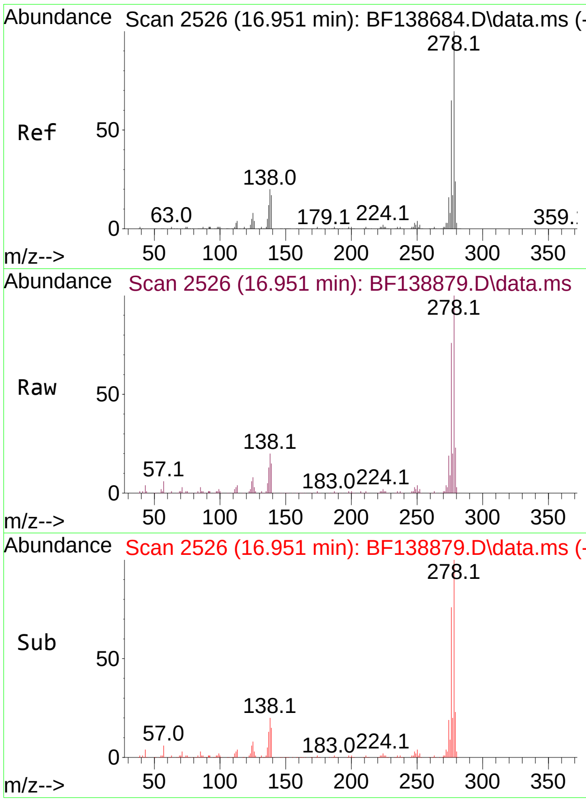
Tgt Ion:252 Resp: 235833

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9
125	10.1	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

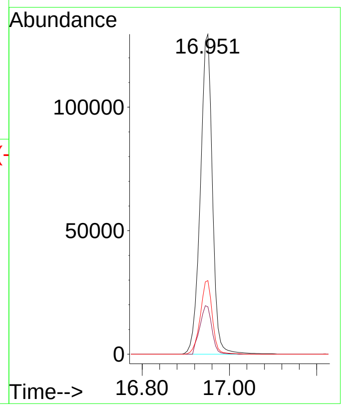
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

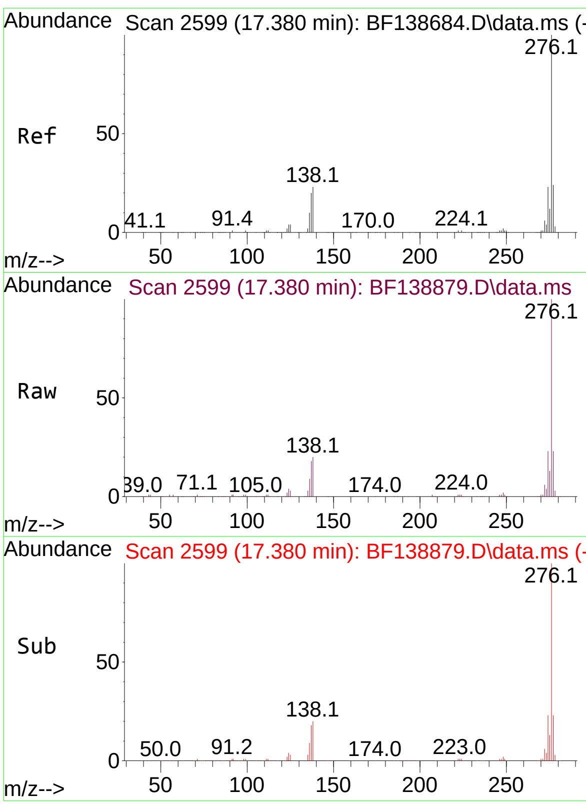


#91
Dibenzo(a,h)anthracene
Concen: 38.071 ng
RT: 16.951 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:278 Resp: 24940

Ion	Ratio	Lower	Upper
278	100		
139	14.8	14.0	21.0
279	23.0	19.0	28.4

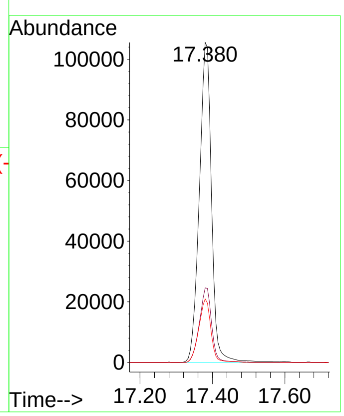




#92
Benzo(g,h,i)perylene
Concen: 36.405 ng
RT: 17.380 min Scan# 2599
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:276 Resp: 247476

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.4
138	19.8	18.5	27.7



Sample Results: **BF138879.D**

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	90	0.00
2		1,4-Dioxane	0.567	0.467	17.6	73	0.02
3		Pyridine	1.374	1.192	13.2	78	0.02
4		n-Nitrosodimethylamine	0.818	0.850	-3.9	94	0.05
5	S	2-Fluorophenol	1.296	1.253	3.3	89	0.00
6		Aniline	1.551	1.495	3.6	88	0.00
7	S	Phenol-d6	1.740	1.688	3.0	90	0.00
8		2-Chlorophenol	1.363	1.362	0.1	93	0.00
9		Benzaldehyde	1.043	0.831	20.3	83	0.00
10	C	Phenol	1.832	1.767	3.5	90	0.01
11		bis(2-Chloroethyl)ether	1.409	1.319	6.4	87	0.00
12		1,3-Dichlorobenzene	1.526	1.500	1.7	92	0.00
13	C	1,4-Dichlorobenzene	1.540	1.516	1.6	91	0.00
14		1,2-Dichlorobenzene	1.439	1.466	-1.9	94	0.00
15		Benzyl Alcohol	1.254	1.333	-6.3	98	0.00
16		2,2'-oxybis(1-Chloropropane	2.426	2.133	12.1	82	0.00
17		2-Methylphenol	1.126	1.087	3.5	89	0.00
18		Hexachloroethane	0.580	0.586	-1.0	93	0.00
19	P	n-Nitroso-di-n-propylamine	1.051	1.087	-3.4	99	0.00
20		3+4-Methylphenols	1.444	1.469	-1.7	97	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	94	0.00
22		Acetophenone	0.490	0.500	-2.0	98	0.00
23	S	Nitrobenzene-d5	0.409	0.415	-1.5	96	0.00
24		Nitrobenzene	0.416	0.419	-0.7	95	0.00
25		Isophorone	0.699	0.689	1.4	95	0.00
26	C	2-Nitrophenol	0.179	0.185	-3.4	95	0.00
27		2,4-Dimethylphenol	0.214	0.210	1.9	93	0.00
28		bis(2-Chloroethoxy)methane	0.425	0.413	2.8	93	0.00
29	C	2,4-Dichlorophenol	0.275	0.284	-3.3	97	0.00
30		1,2,4-Trichlorobenzene	0.318	0.318	0.0	95	0.00
31		Naphthalene	1.053	1.044	0.9	94	0.00
32		Benzoic acid	0.168	0.149	11.3	85	0.04
33		4-Chloroaniline	0.353	0.328	7.1	89	0.00
34	C	Hexachlorobutadiene	0.192	0.201	-4.7	100	0.00
35		Caprolactam	0.082	0.086	-4.9	104	0.03
36	C	4-Chloro-3-methylphenol	0.315	0.330	-4.8	102	0.01
37		2-Methylnaphthalene	0.665	0.685	-3.0	100	0.00
38		1-Methylnaphthalene	0.652	0.663	-1.7	98	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
40		1,2,4,5-Tetrachlorobenzene	0.556	0.558	-0.4	104	0.00
41	P	Hexachlorocyclopentadiene	0.120	0.169	-40.8#	137	0.00
42	S	2,4,6-Tribromophenol	0.164	0.175	-6.7	113	0.00
43	C	2,4,6-Trichlorophenol	0.339	0.331	2.4	101	0.00
44		2,4,5-Trichlorophenol	0.370	0.367	0.8	103	0.00
45	S	2-Fluorobiphenyl	1.331	1.366	-2.6	108	0.00
46		1,1'-Biphenyl	1.566	1.528	2.4	102	0.00
47		2-Chloronaphthalene	1.165	1.138	2.3	102	0.00

Sample Results: **BF138879.D**

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	0.395	0.398	-0.8	105	0.00
49	Acenaphthylene	1.652	1.623	1.8	102	0.00
50	Dimethylphthalate	1.279	1.314	-2.7	110	0.00
51	2,6-Dinitrotoluene	0.289	0.297	-2.8	106	0.00
52 C	Acenaphthene	1.111	1.081	2.7	103	0.00
53	3-Nitroaniline	0.298	0.297	0.3	106	0.00
54 P	2,4-Dinitrophenol	0.133	0.150	-12.8	121	0.00
55	Dibenzofuran	1.568	1.578	-0.6	107	0.00
56 P	4-Nitrophenol	0.179	0.191	-6.7	112	0.02
57	2,4-Dinitrotoluene	0.368	0.397	-7.9	113	0.01
58	Fluorene	1.249	1.298	-3.9	111	0.00
59	2,3,4,6-Tetrachlorophenol	0.283	0.290	-2.5	109	0.00
60	Diethylphthalate	1.213	1.332	-9.8	118	0.00
61	4-Chlorophenyl-phenylether	0.614	0.641	-4.4	112	0.00
62	4-Nitroaniline	0.284	0.291	-2.5	110	0.01
63	Azobenzene	1.345	1.364	-1.4	108	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
65	4,6-Dinitro-2-methylphenol	0.122	0.127	-4.1	114	0.01
66 c	n-Nitrosodiphenylamine	0.625	0.630	-0.8	112	0.00
67	4-Bromophenyl-phenylether	0.217	0.218	-0.5	113	0.00
68	Hexachlorobenzene	0.224	0.225	-0.4	115	0.00
69	Atrazine	0.161	0.156	3.1	108	0.00
70 C	Pentachlorophenol	0.101	0.114	-12.9	125	0.00
71	Phenanthrene	1.030	1.033	-0.3	113	0.00
72	Anthracene	1.015	1.020	-0.5	114	0.00
73	Carbazole	0.875	0.907	-3.7	117	0.00
74	Di-n-butylphthalate	0.984	1.177	-19.6	133	0.00
75 C	Fluoranthene	0.961	1.015	-5.6	118	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	96	0.00
77	Benzidine	0.478	0.476	0.4	85	0.00
78	Pyrene	1.883	2.164	-14.9	119	0.00
79 S	Terphenyl-d14	1.195	1.398	-17.0	121	0.00
80	Butylbenzylphthalate	0.603	0.704	-16.7	108	0.00
81	Benzo(a)anthracene	1.377	1.353	1.7	93	0.00
82	3,3'-Dichlorobenzidine	0.352	0.347	1.4	92	0.00
83	Chrysene	1.243	1.242	0.1	97	0.00
84	Bis(2-ethylhexyl)phthalate	0.883	0.836	5.3	85	-0.01
85 c	Di-n-octyl phthalate	1.634	1.399	14.4	77	-0.01
86 I	Perylene-d12	1.000	1.000	0.0	73	0.00
87	Indeno(1,2,3-cd)pyrene	1.433	1.357	5.3	72	0.00
88	Benzo(b)fluoranthene	1.240	1.263	-1.9	76	0.00
89	Benzo(k)fluoranthene	1.073	1.156	-7.7	85	0.00
90 C	Benzo(a)pyrene	1.043	1.059	-1.5	76	0.00
91	Dibenzo(a,h)anthracene	1.177	1.120	4.8	73	0.00
92	Benzo(g,h,i)perylene	1.221	1.111	9.0	68	0.00

Sample Results: **BF138879.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On    : 09 Aug 2024  09:48
Operator  : RC/JU
Sample    : SSTDCCC040
Misc      :
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration
```

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

```
Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 150%

       Compound                      AvgRF   CCRF      %Dev Area% Dev(min)
-------------------------------------------------------------------------

  (#) = Out of Range               SPCC's out = 0  CCC's out = 0
```

Evaluate Continuing Calibration Report

Sample Results: **BF138879.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	90	0.00
2		1,4-Dioxane	40.000	32.959	17.6	73	0.02
3		Pyridine	40.000	34.698	13.3	78	0.02
4		n-Nitrosodimethylamine	40.000	41.529	-3.8	94	0.05
5	S	2-Fluorophenol	80.000	77.341	3.3	89	0.00
6		Aniline	40.000	38.553	3.6	88	0.00
7	S	Phenol-d6	80.000	77.642	2.9	90	0.00
8		2-Chlorophenol	40.000	39.975	0.1	93	0.00
9		Benzaldehyde	40.000	31.868	20.3	83	0.00
10	C	Phenol	40.000	38.591	3.5	90	0.01
11		bis(2-Chloroethyl)ether	40.000	37.428	6.4	87	0.00
12		1,3-Dichlorobenzene	40.000	39.328	1.7	92	0.00
13	C	1,4-Dichlorobenzene	40.000	39.385	1.5	91	0.00
14		1,2-Dichlorobenzene	40.000	40.758	-1.9	94	0.00
15		Benzyl Alcohol	40.000	42.513	-6.3	98	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	35.181	12.0	82	0.00
17		2-Methylphenol	40.000	38.644	3.4	89	0.00
18		Hexachloroethane	40.000	40.424	-1.1	93	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	41.371	-3.4	99	0.00
20		3+4-Methylphenols	40.000	40.691	-1.7	97	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	94	0.00
22		Acetophenone	40.000	40.881	-2.2	98	0.00
23	S	Nitrobenzene-d5	80.000	81.125	-1.4	96	0.00
24		Nitrobenzene	40.000	40.226	-0.6	95	0.00
25		Isophorone	40.000	39.454	1.4	95	0.00
26	C	2-Nitrophenol	40.000	41.211	-3.0	95	0.00
27		2,4-Dimethylphenol	40.000	39.127	2.2	93	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.796	3.0	93	0.00
29	C	2,4-Dichlorophenol	40.000	41.240	-3.1	97	0.00
30		1,2,4-Trichlorobenzene	40.000	40.076	-0.2	95	0.00
31		Naphthalene	40.000	39.667	0.8	94	0.00
32		Benzoic acid	40.000	35.363	11.6	85	0.04
33		4-Chloroaniline	40.000	37.080	7.3	89	0.00
34	C	Hexachlorobutadiene	40.000	41.748	-4.4	100	0.00
35		Caprolactam	40.000	42.020	-5.1	104	0.03
36	C	4-Chloro-3-methylphenol	40.000	41.980	-4.9	102	0.01
37		2-Methylnaphthalene	40.000	41.211	-3.0	100	0.00
38		1-Methylnaphthalene	40.000	40.707	-1.8	98	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	103	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.151	-0.4	104	0.00
41	P	Hexachlorocyclopentadiene	40.000	48.979	-22.4	137	0.00
42	S	2,4,6-Tribromophenol	80.000	85.652	-7.1	113	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.044	2.4	101	0.00
44		2,4,5-Trichlorophenol	40.000	39.672	0.8	103	0.00
45	S	2-Fluorobiphenyl	80.000	82.084	-2.6	108	0.00
46		1,1'-Biphenyl	40.000	39.023	2.4	102	0.00
47		2-Chloronaphthalene	40.000	39.064	2.3	102	0.00

Sample Results: **BF138879.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	40.306	-0.8	105	0.00
49	Acenaphthylene	40.000	39.295	1.8	102	0.00
50	Dimethylphthalate	40.000	41.104	-2.8	110	0.00
51	2,6-Dinitrotoluene	40.000	41.164	-2.9	106	0.00
52 C	Acenaphthene	40.000	38.933	2.7	103	0.00
53	3-Nitroaniline	40.000	39.833	0.4	106	0.00
54 P	2,4-Dinitrophenol	40.000	45.240	-13.1	121	0.00
55	Dibenzofuran	40.000	40.270	-0.7	107	0.00
56 P	4-Nitrophenol	40.000	42.666	-6.7	112	0.02
57	2,4-Dinitrotoluene	40.000	43.181	-8.0	113	0.01
58	Fluorene	40.000	41.585	-4.0	111	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	41.037	-2.6	109	0.00
60	Diethylphthalate	40.000	43.927	-9.8	118	0.00
61	4-Chlorophenyl-phenylether	40.000	41.737	-4.3	112	0.00
62	4-Nitroaniline	40.000	41.114	-2.8	110	0.01
63	Azobenzene	40.000	40.571	-1.4	108	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	112	0.00
65	4,6-Dinitro-2-methylphenol	40.000	41.494	-3.7	114	0.01
66 c	n-Nitrosodiphenylamine	40.000	40.327	-0.8	112	0.00
67	4-Bromophenyl-phenylether	40.000	40.221	-0.6	113	0.00
68	Hexachlorobenzene	40.000	40.333	-0.8	115	0.00
69	Atrazine	40.000	38.753	3.1	108	0.00
70 C	Pentachlorophenol	40.000	45.355	-13.4	125	0.00
71	Phenanthrene	40.000	40.124	-0.3	113	0.00
72	Anthracene	40.000	40.206	-0.5	114	0.00
73	Carbazole	40.000	41.459	-3.6	117	0.00
74	Di-n-butylphthalate	40.000	47.835	-19.6	133	0.00
75 C	Fluoranthene	40.000	42.213	-5.5	118	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	96	0.00
77	Benzidine	40.000	39.838	0.4	85	0.00
78	Pyrene	40.000	45.976	-14.9	119	0.00
79 S	Terphenyl-d14	80.000	93.624	-17.0	121	0.00
80	Butylbenzylphthalate	40.000	46.724	-16.8	108	0.00
81	Benzo(a)anthracene	40.000	39.294	1.8	93	0.00
82	3,3'-Dichlorobenzidine	40.000	39.408	1.5	92	0.00
83	Chrysene	40.000	39.995	0.0	97	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	37.893	5.3	85	-0.01
85 c	Di-n-octyl phthalate	40.000	34.265	14.3	77	-0.01
86 I	Perylene-d12	20.000	20.000	0.0	73	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	37.875	5.3	72	0.00
88	Benzo(b)fluoranthene	40.000	40.751	-1.9	76	0.00
89	Benzo(k)fluoranthene	40.000	43.068	-7.7	85	0.00
90 C	Benzo(a)pyrene	40.000	40.615	-1.5	76	0.00
91	Dibenzo(a,h)anthracene	40.000	38.071	4.8	73	0.00
92	Benzo(g,h,i)perylene	40.000	36.405	9.0	68	0.00

Sample Results: **BF138879.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On    : 09 Aug 2024  09:48
Operator  : RC/JU
Sample    : SSTDCCC040
Misc      :
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration
```

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

```
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: JACO05

Lab Code: CHEM Case No.: P3467 SAS No.: P3467 SDG No.: P3467

Instrument ID: BNA_F Calibration Date/Time: 08/10/2024 10:41

Lab File ID: BF138901.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

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

COMPOUND	RRF (mean)	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.374	1.245		-9.4	
2-Fluorophenol	1.296	1.267		-2.2	
Benzaldehyde	1.043	0.916		-12.2	
Phenol-d6	1.740	1.736		-0.2	
2-Methylphenol	1.126	1.130		0.4	
Acetophenone	0.490	0.511		4.3	
3+4-Methylphenols	1.444	1.532		6.1	
Nitrobenzene-d5	0.409	0.425		3.9	
Nitrobenzene	0.416	0.425		2.2	
2,4-Dichlorophenol	0.275	0.287		4.4	20.0
Naphthalene	1.053	1.059		0.6	
Hexachlorobutadiene	0.192	0.208		8.3	20.0
2-Methylnaphthalene	0.665	0.691		3.9	
2,4,6-Trichlorophenol	0.339	0.337		-0.6	20.0
2-Fluorobiphenyl	1.331	1.376		3.4	
2,4,5-Trichlorophenol	0.370	0.377		1.9	
Acenaphthylene	1.652	1.642		-0.6	
Acenaphthene	1.111	1.104		-0.6	20.0
Dibenzofuran	1.568	1.590		1.4	
Fluorene	1.249	1.309		4.8	
2,4,6-Tribromophenol	0.164	0.177		7.9	
Hexachlorobenzene	0.224	0.229		2.2	
Pentachlorophenol	0.101	0.121		19.8	20.0
Phenanthrene	1.030	1.051		2.0	
Carbazole	0.875	0.883		0.9	
Di-n-butylphthalate	0.984	1.131		14.9	
Fluoranthene	0.961	0.969		0.8	20.0
Pyrene	1.883	2.088		10.9	
Terphenyl-d14	1.195	1.360		13.8	
Benzo(a)anthracene	1.377	1.402		1.8	
Chrysene	1.243	1.236		-0.6	
Bis(2-ethylhexyl)phthalate	0.883	0.871		-1.4	
Benzo(b)fluoranthene	1.240	1.227		-1.0	
Benzo(k)fluoranthene	1.073	1.114		3.8	
Benzo(a)pyrene	1.043	1.061		1.7	20.0
Indeno(1,2,3-cd)pyrene	1.433	1.363		-4.9	
Dibenzo(a,h)anthracene	1.177	1.113		-5.4	
Benzo(g,h,i)perylene	1.221	1.134		-7.1	
1,4-Dioxane	0.567	0.483		-14.8	20.0

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: JACO05

Lab Code: CHEM Case No.: P3467 SAS No.: P3467 SDG No.: P3467

Instrument ID: BNA_F Calibration Date/Time: 08/10/2024 10:41

Lab File ID: BF138901.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

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

COMPOUND	$\overline{RRF}$	RRF040	MIN RRF	%D	MAX%D
1-Methylnaphthalene	0.652	0.672		3.1	

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BF138901.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.845	152	63234	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	258541	20.000	ng		0.00
39) Acenaphthene-d10	9.880	164	146261	20.000	ng		0.00
64) Phenanthrene-d10	11.369	188	247933	20.000	ng		0.00
76) Chrysene-d12	14.004	240	115525	20.000	ng		0.00
86) Perylene-d12	15.468	264	117822	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.475	112	320465	78.231	ng		0.00
7) Phenol-d6	6.492	99	439099	79.839	ng		0.00
23) Nitrobenzene-d5	7.416	82	439920	83.191	ng		0.00
42) 2,4,6-Tribromophenol	10.675	330	103699	86.555	ng		0.00
45) 2-Fluorobiphenyl	9.198	172	804889	82.684	ng		0.00
79) Terphenyl-d14	12.945	244	628672	91.112	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.599	88	61103	34.071	ng		97
3) Pyridine	3.357	79	157484	36.250	ng		97
4) n-Nitrosodimethylamine	3.334	42	112433	43.453	ng		83
6) Aniline	6.510	93	194296	39.613	ng	#	41
8) 2-Chlorophenol	6.639	128	175639	40.753	ng		96
9) Benzaldehyde	6.398	77	115786	35.120	ng		99
10) Phenol	6.510	94	230139	39.743	ng		79
11) bis(2-Chloroethyl)ether	6.587	93	167809	37.658	ng		99
12) 1,3-Dichlorobenzene	6.787	146	192215	39.842	ng		98
13) 1,4-Dichlorobenzene	6.863	146	196478	40.356	ng		100
14) 1,2-Dichlorobenzene	7.016	146	188564	41.442	ng		98
15) Benzyl Alcohol	6.992	79	171483	43.260	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.116	45	276455	36.049	ng	#	50
17) 2-Methylphenol	7.110	107	142935	40.163	ng	#	91
18) Hexachloroethane	7.351	117	76031	41.486	ng		98
19) n-Nitroso-di-n-propyla...	7.263	70	140425	42.274	ng		99
20) 3+4-Methylphenols	7.263	107	193788	42.440	ng		93
22) Acetophenone	7.257	105	264253	41.744	ng	#	98
24) Nitrobenzene	7.434	77	219665	40.822	ng		99
25) Isophorone	7.675	82	363094	40.211	ng		99
26) 2-Nitrophenol	7.745	139	95229	41.134	ng		92
27) 2,4-Dimethylphenol	7.786	122	111520	40.261	ng		98
28) bis(2-Chloroethoxy)met...	7.875	93	215348	39.163	ng		99
29) 2,4-Dichlorophenol	7.992	162	148177	41.631	ng		99
30) 1,2,4-Trichlorobenzene	8.069	180	169785	41.335	ng		97
31) Naphthalene	8.151	128	547469	40.229	ng		100
32) Benzoic acid	7.951	122	73794	33.892	ng		88
33) 4-Chloroaniline	8.204	127	168871	36.967	ng		98
34) Hexachlorobutadiene	8.257	225	107615	43.255	ng		100
35) Caprolactam	8.598	113	45469m	42.813	ng		
36) 4-Chloro-3-methylphenol	8.692	107	174210	42.827	ng		98
37) 2-Methylnaphthalene	8.839	142	357386	41.582	ng		99
38) 1-Methylnaphthalene	8.939	142	347514	41.263	ng		99
40) 1,2,4,5-Tetrachloroben...	9.004	216	166654	41.018	ng		98
41) Hexachlorocyclopentadiene	8.986	237	47919	47.645	ng		99
43) 2,4,6-Trichlorophenol	9.122	196	98461	39.746	ng		99

Sample Results: **BF138901.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.175	196	110160	40.677 ng		98
46) 1,1'-Biphenyl	9.304	154	456093	39.816 ng		99
47) 2-Chloronaphthalene	9.328	162	341460	40.080 ng		100
48) 2-Nitroaniline	9.433	65	119216	41.277 ng		97
49) Acenaphthylene	9.745	152	480233	39.744 ng		99
50) Dimethylphthalate	9.604	163	396316	42.377 ng		100
51) 2,6-Dinitrotoluene	9.675	165	90405	42.834 ng		90
52) Acenaphthene	9.916	154	323021	39.769 ng		100
53) 3-Nitroaniline	9.845	138	87074	39.908 ng		94
54) 2,4-Dinitrophenol	9.963	184	44762	46.071 ng		87
55) Dibenzofuran	10.086	168	465060	40.561 ng		98
56) 4-Nitrophenol	10.028	139	56447	43.021 ng		93
57) 2,4-Dinitrotoluene	10.080	165	118576	44.035 ng	#	83
58) Fluorene	10.427	166	383007	41.948 ng		100
59) 2,3,4,6-Tetrachlorophenol	10.210	232	85030	41.069 ng		96
60) Diethylphthalate	10.304	149	392422	44.254 ng		100
61) 4-Chlorophenyl-phenyle...	10.416	204	192635	42.898 ng		95
62) 4-Nitroaniline	10.469	138	86663	41.796 ng		90
63) Azobenzene	10.580	77	398845	40.554 ng		97
65) 4,6-Dinitro-2-methylph...	10.498	198	63626	42.064 ng		98
66) n-Nitrosodiphenylamine	10.545	169	315882	40.760 ng		99
67) 4-Bromophenyl-phenylether	10.910	248	111751	41.631 ng		98
68) Hexachlorobenzene	10.975	284	113668	41.012 ng		97
69) Atrazine	11.069	200	73548	36.784 ng		98
70) Pentachlorophenol	11.180	266	60194	48.183 ng		98
71) Phenanthrene	11.392	178	521085	40.816 ng		100
72) Anthracene	11.445	178	510139	40.562 ng		100
73) Carbazole	11.604	167	437899	40.357 ng		99
74) Di-n-butylphthalate	11.922	149	560651	45.963 ng		99
75) Fluoranthene	12.580	202	480391	40.307 ng		99
77) Benzidine	12.704	184	119714	43.325 ng		99
78) Pyrene	12.810	202	482435	44.353 ng		100
80) Butylbenzylphthalate	13.416	149	154344	44.312 ng		99
81) Benzo(a)anthracene	13.998	228	323951	40.721 ng		99
82) 3,3'-Dichlorobenzidine	13.957	252	86086	42.286 ng		99
83) Chrysene	14.033	228	285552	39.786 ng		100
84) Bis(2-ethylhexyl)phtha...	13.968	149	201163	39.440 ng		98
85) Di-n-octyl phthalate	14.580	149	351563	37.255 ng		100
87) Indeno(1,2,3-cd)pyrene	16.956	276	321131	38.033 ng		96
88) Benzo(b)fluoranthene	15.045	252	289097	39.582 ng		98
89) Benzo(k)fluoranthene	15.074	252	262435	41.500 ng		98
90) Benzo(a)pyrene	15.410	252	250070	40.704 ng		99
91) Dibenzo(a,h)anthracene	16.962	278	262197	37.829 ng		98
92) Benzo(g,h,i)perylene	17.398	276	267113	37.138 ng		96

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

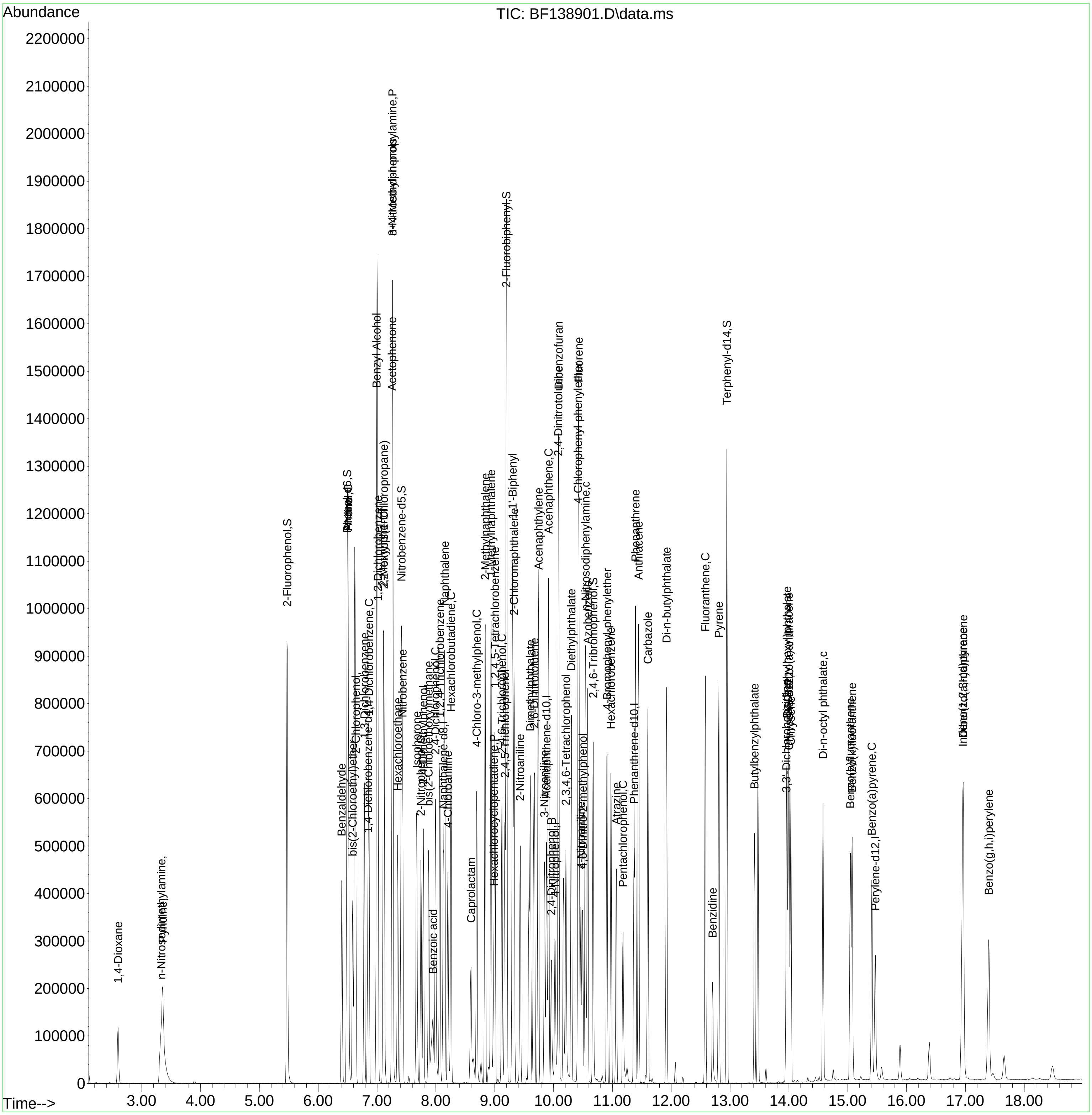
Sample Results: **BF138901.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On   : 10 Aug 2024 10:41
Operator : RC/JU
Sample   : SSTDCCC040
Misc   :
ALS Vial : 2   Sample Multiplier: 1

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

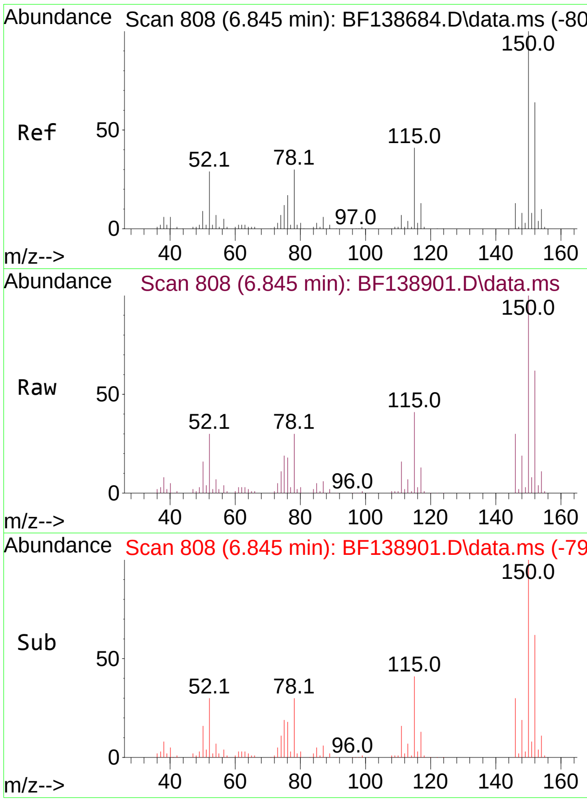
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay   08/12/2024
Supervised By :mohammad ahmed   08/13/2024



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

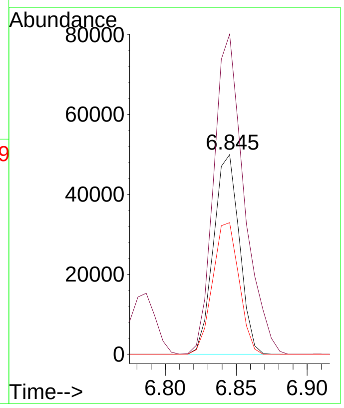
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

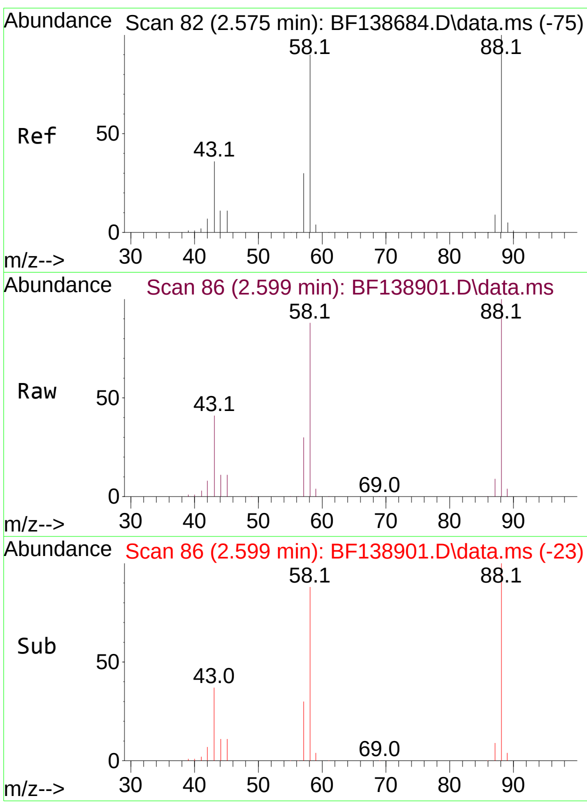


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:152 Resp: 6323

Ion	Ratio	Lower	Upper
152	100		
150	160.4	126.0	189.0
115	65.9	51.7	77.5

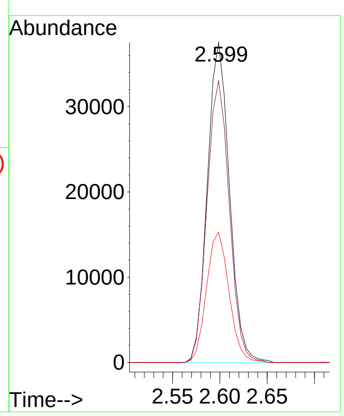


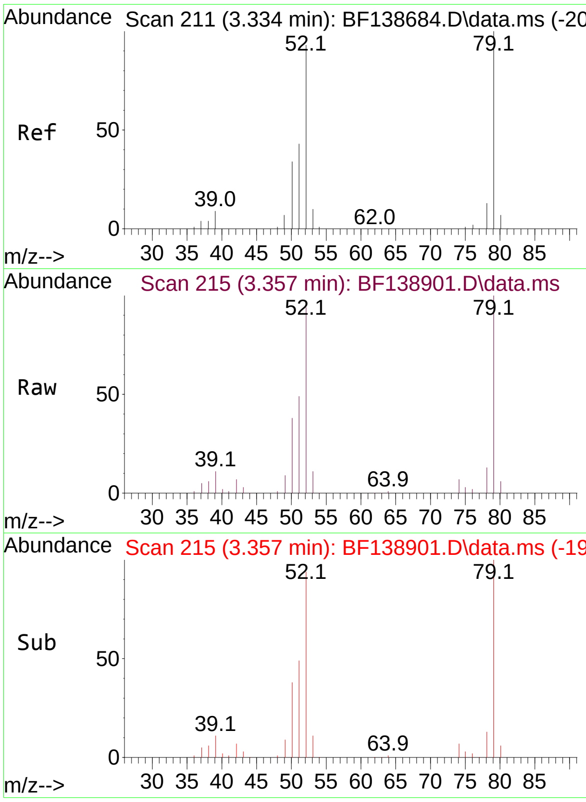


#2
1,4-Dioxane
Concen: 34.071 ng
RT: 2.599 min Scan# 86
Delta R.T. 0.023 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 88 Resp: 61103

Ion	Ratio	Lower	Upper
88	100		
58	89.1	71.6	107.4
43	41.5	28.7	43.1





#3
Pyridine
Concen: 36.250 ng
RT: 3.357 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

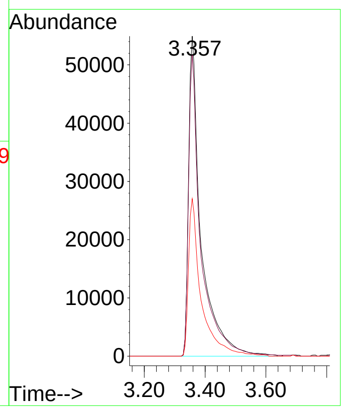
Tgt Ion: 79 Resp: 15748

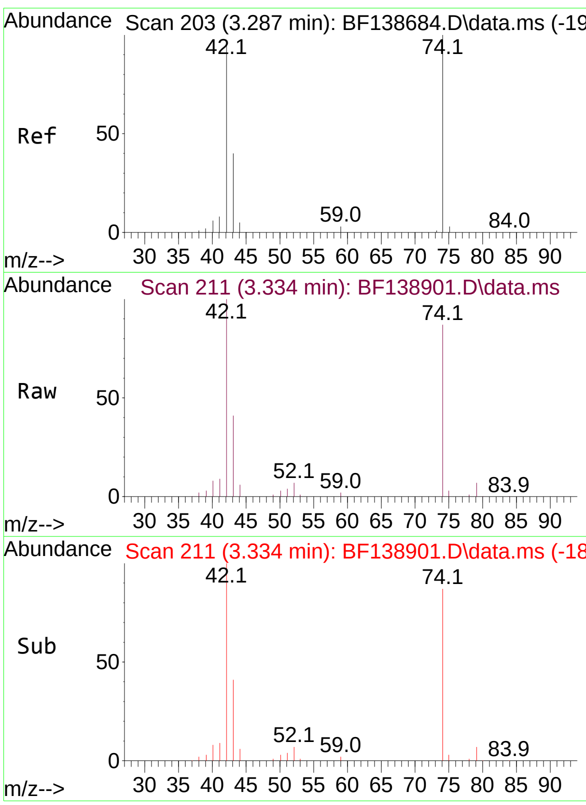
Ion	Ratio	Lower	Upper
79	100		
52	94.0	74.7	112.1
51	49.2	34.6	51.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

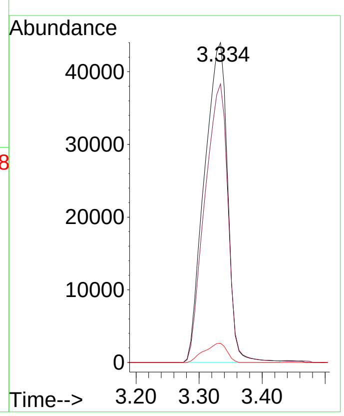


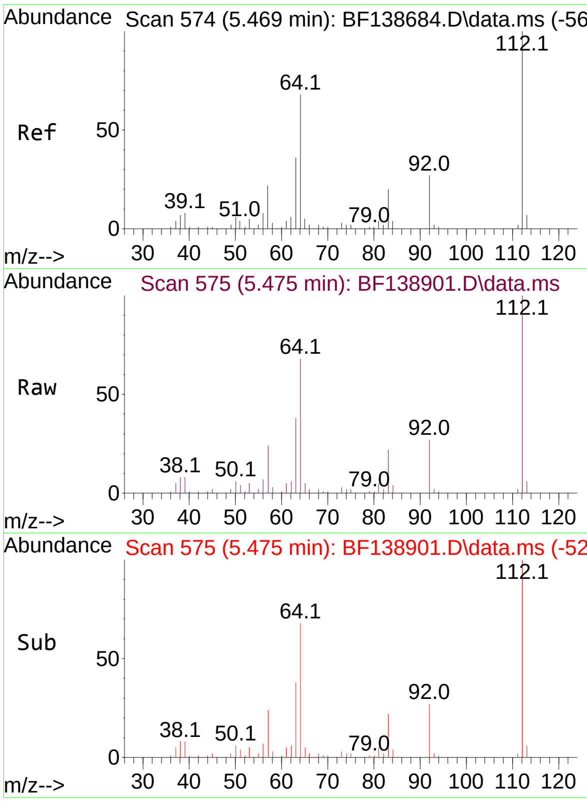


#4
n-Nitrosodimethylamine
Concen: 43.453 ng
RT: 3.334 min Scan# 211
Delta R.T. 0.047 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 42 Resp: 112433

Ion	Ratio	Lower	Upper
42	100		
74	87.0	84.2	126.4
44	6.0	4.9	7.3





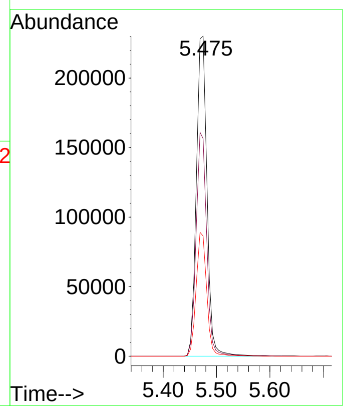
#5
2-Fluorophenol
Concen: 78.231 ng
RT: 5.475 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

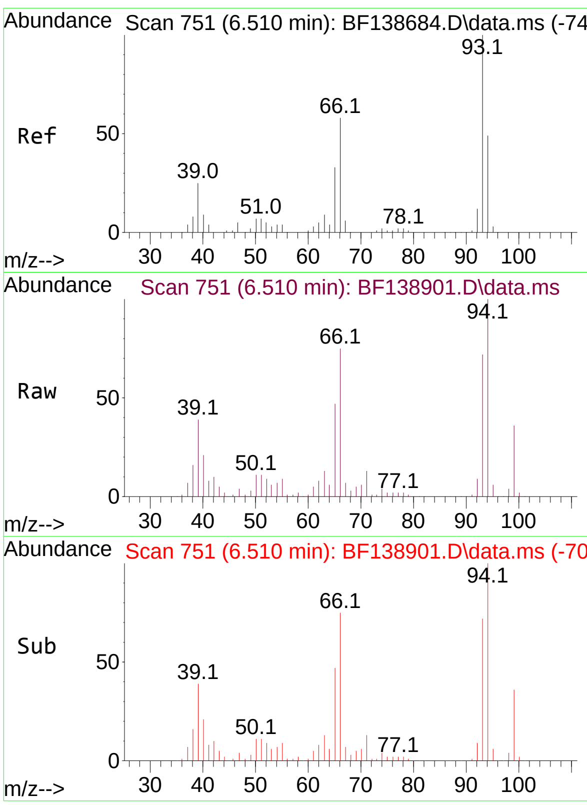
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 32046

Ion	Ratio	Lower	Upper
112	100		
64	68.0	54.2	81.4
63	37.5	28.7	43.1

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

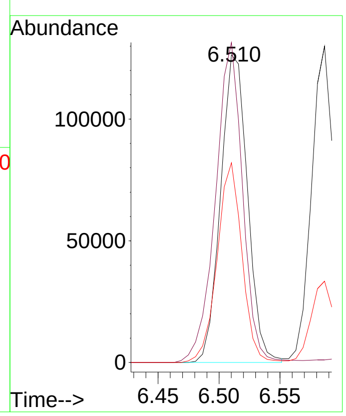




#6
Aniline
Concen: 39.613 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 93 Resp: 194296

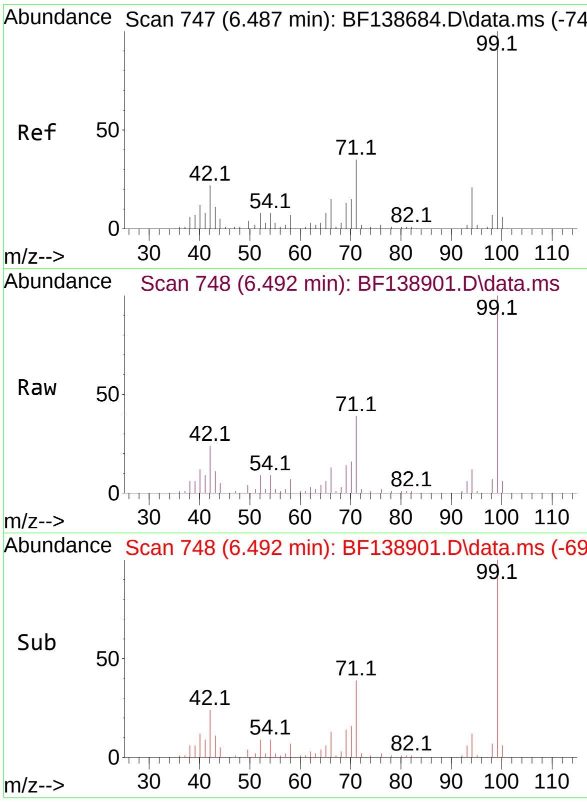
Ion	Ratio	Lower	Upper
93	100		
66	104.0	46.9	70.3#
65	64.9	26.5	39.7#



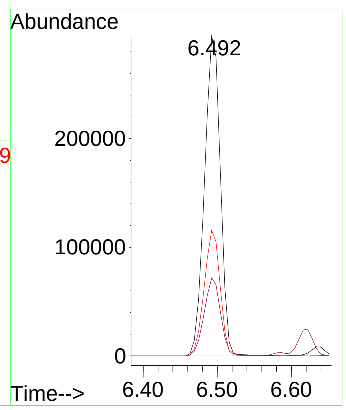
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

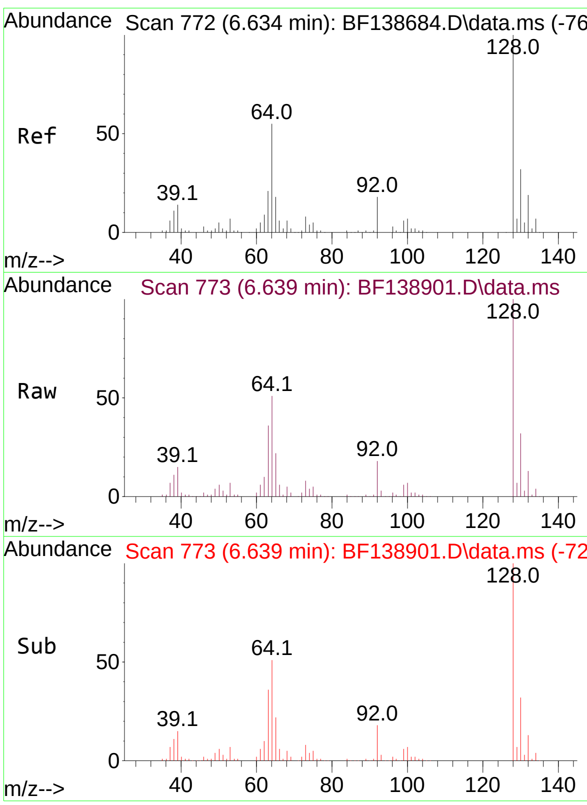
Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

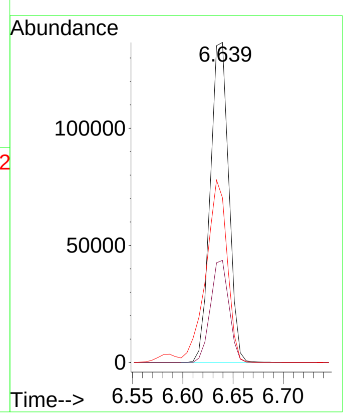



```
#7
Phenol-d6
Concen:   79.839 ng
RT:   6.492 min  Scan# 74
Delta R.T.  0.006 min
Lab File:   BF138901.D
Acq: 10 Aug 2024  10:41

Tgt Ion: 99 Resp:  43909
Ion  Ratio  Lower  Upper
 99  100
 42   24.3   17.4   26.0
 71   39.3   28.1   42.1
```





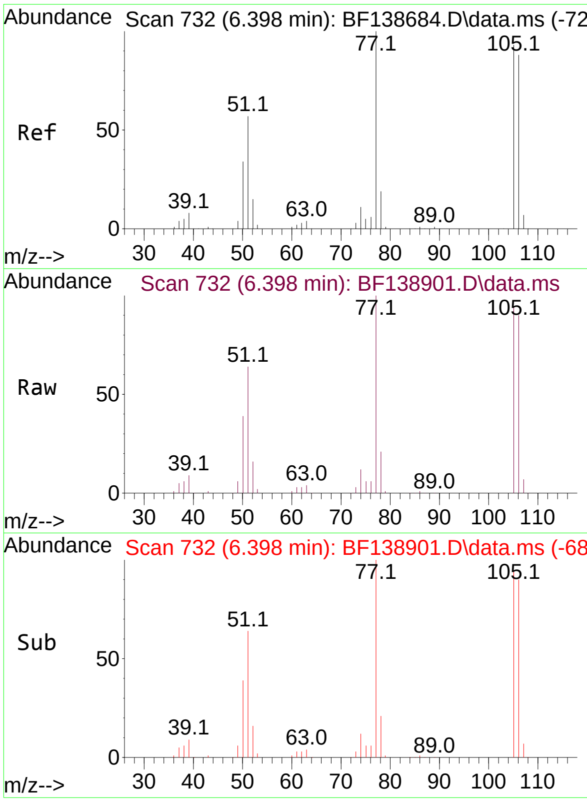

```
#8
2-Chlorophenol
Concen:   40.753 ng
RT:   6.639 min  Scan# 773
Delta R.T.  0.006 min
Lab File:   BF138901.D
Acq: 10 Aug 2024  10:41

Tgt Ion:128 Resp:  175639
Ion  Ratio  Lower  Upper
128  100
130   31.9   12.0   52.0
 64   51.4   36.3   76.3
```



Instrument : BNA_F
ClientSampleId : SSTDCCC040

Manual Integrations APPROVED

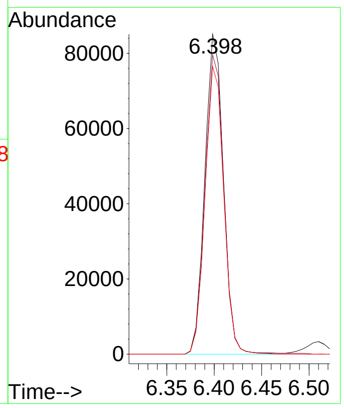
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

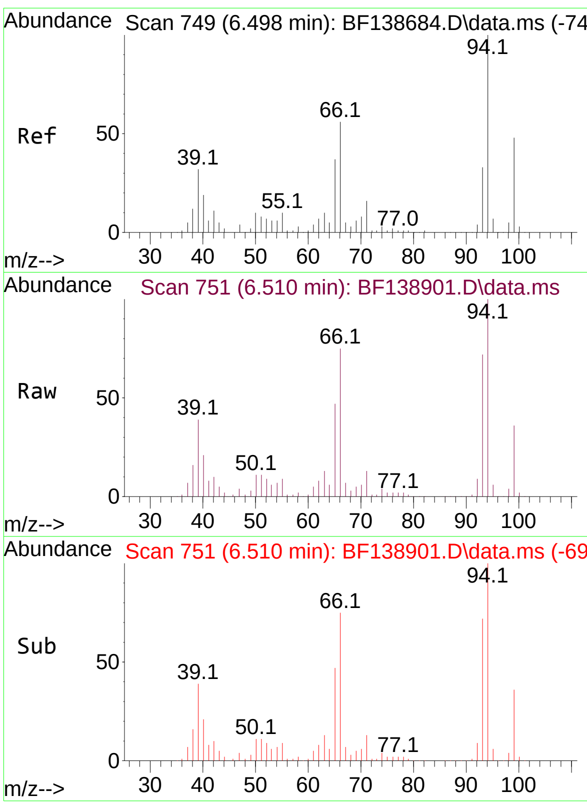


#9
Benzaldehyde
Concen: 35.120 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 77 Resp: 11578

Ion	Ratio	Lower	Upper
77	100		
105	93.5	72.9	112.9
106	89.9	68.4	108.4

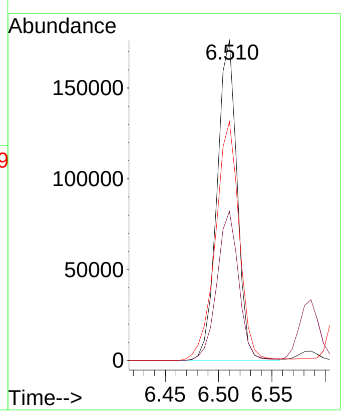




#10
Phenol
Concen: 39.743 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 94 Resp: 230139

Ion	Ratio	Lower	Upper
94	100		
65	46.6	16.9	56.9
66	74.6	36.5	76.5

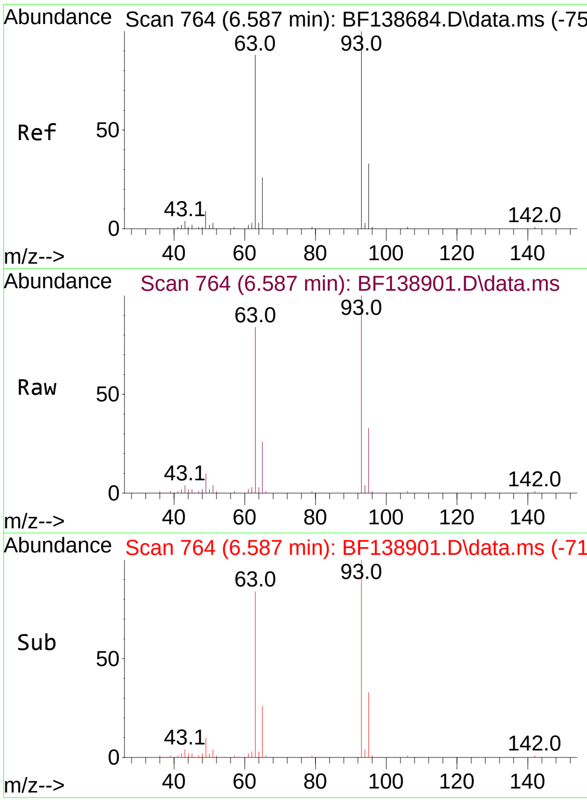


Sample Results: **BF138901.D**

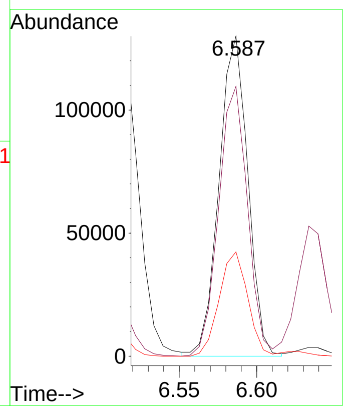
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

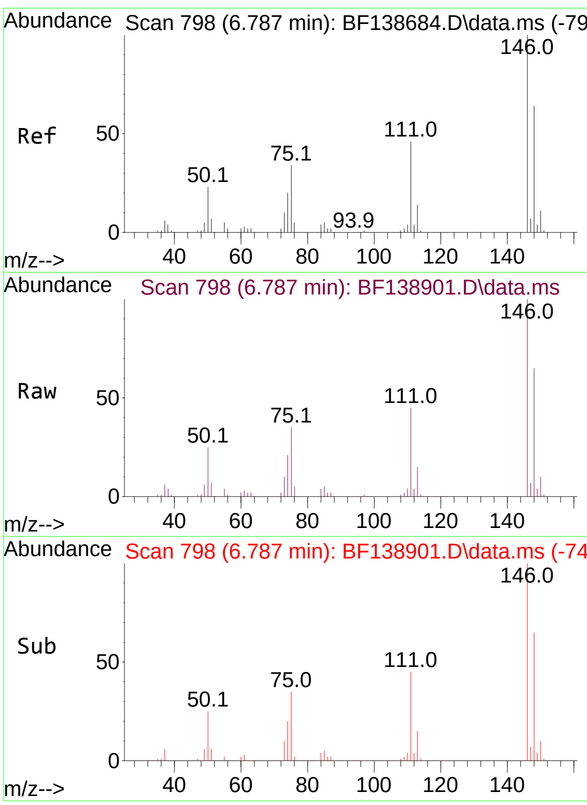
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

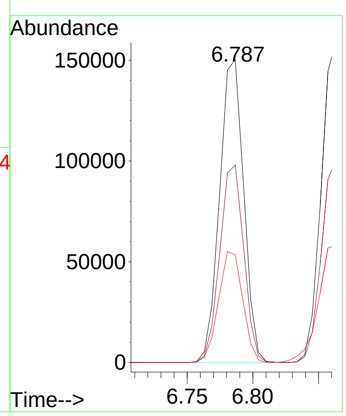


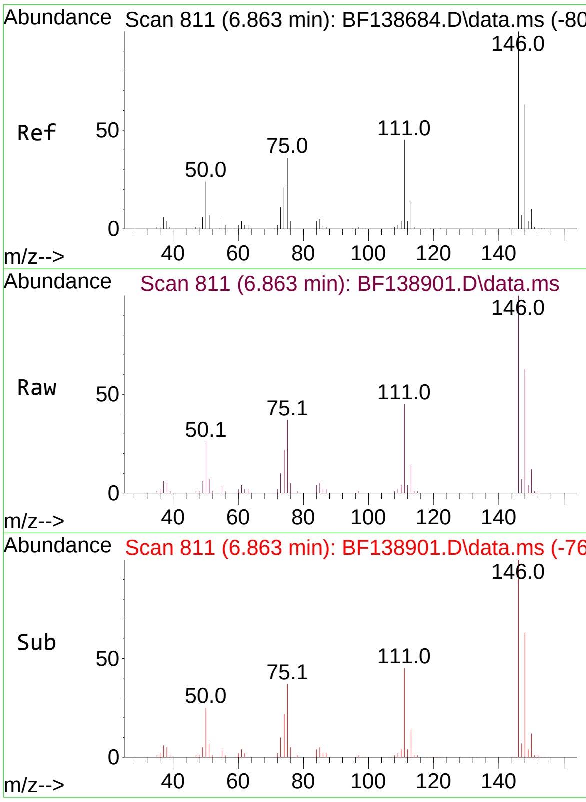

```
#11
bis(2-Chloroethyl)ether
Concen:   37.658 ng
RT:   6.587 min   Scan# 7
Delta R.T.   -0.000 min
Lab File:    BF138901.D
Acq: 10 Aug 2024   10:41

Tgt Ion: 93 Resp:   16780
Ion   Ratio   Lower   Upper
 93   100
 63    84.3    65.3   105.3
 95    32.6    12.4    52.4
```






```
#12
1,3-Dichlorobenzene
Concen:   39.842 ng
RT:   6.787 min   Scan# 798
Delta R.T.   -0.000 min
Lab File:    BF138901.D
Acq: 10 Aug 2024   10:41

Tgt Ion:146 Resp:   192215
Ion   Ratio   Lower   Upper
146   100
148    65.2    51.2    76.8
 75    35.5    27.4    41.2
```

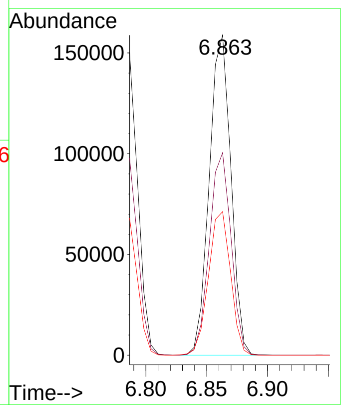




#13
1,4-Dichlorobenzene
Concen: 40.356 ng
RT: 6.863 min   Scan# 8
Delta R.T.   -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024   10:41

Tgt Ion:146 Resp: 19647

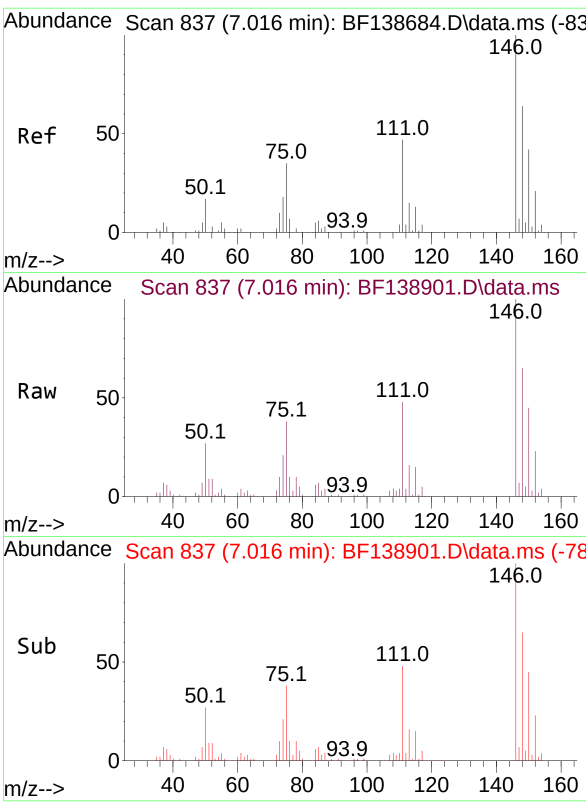
Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.2	75.2
111	44.9	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

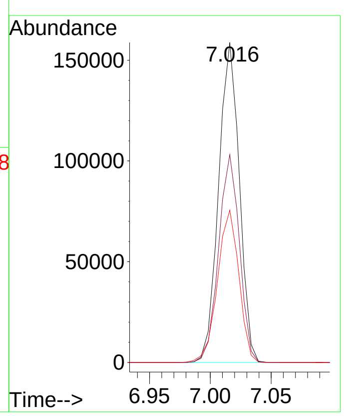
Reviewed By :Jagrut Upadhyay   08/12/2024
Supervised By :mohammad ahmed   08/13/2024



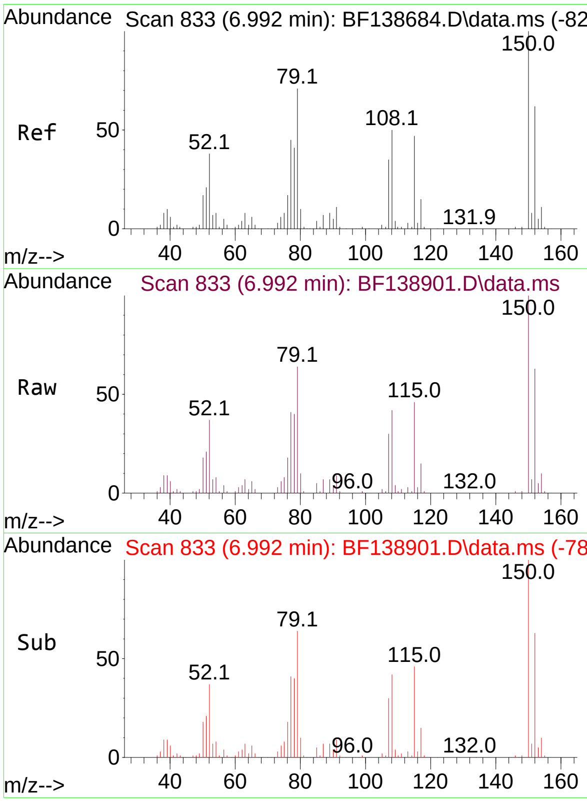
#14
1,2-Dichlorobenzene
Concen: 41.442 ng
RT: 7.016 min   Scan# 837
Delta R.T.   -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024   10:41

Tgt Ion:146 Resp: 188564

Ion	Ratio	Lower	Upper
146	100		
148	64.9	50.8	76.2
111	47.6	37.4	56.2



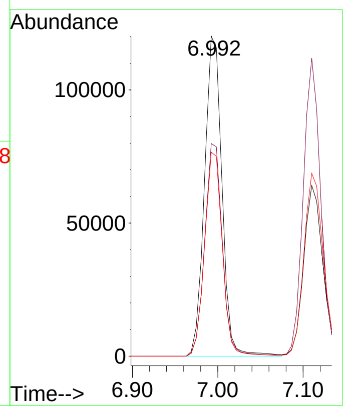
Sample Results: **BF138901.D**



#15
Benzyl Alcohol
Concen: 43.260 ng
RT: 6.992 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

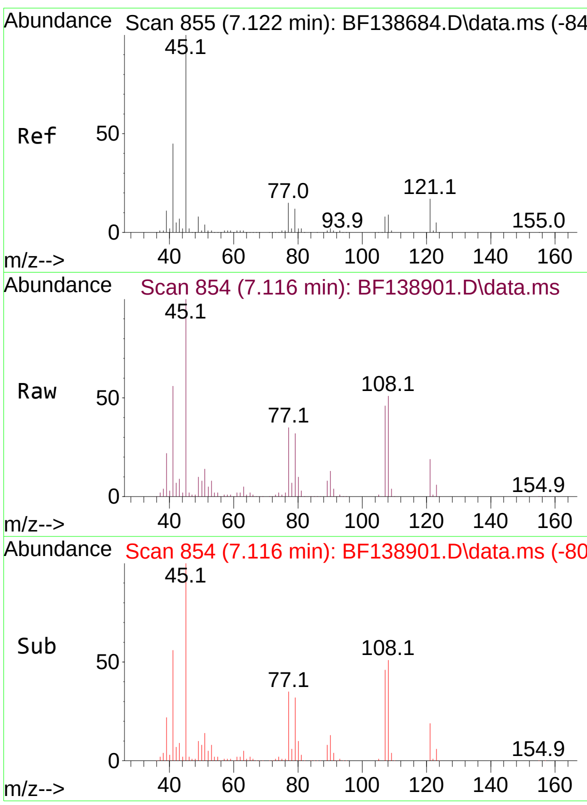
Tgt Ion: 79 Resp: 171481

Ion	Ratio	Lower	Upper
79	100		
108	66.5	56.6	85.0
77	63.7	50.3	75.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

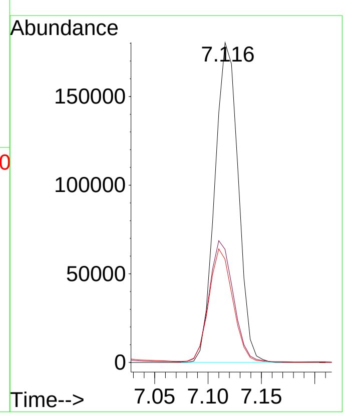
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024



#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.049 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 45 Resp: 276455

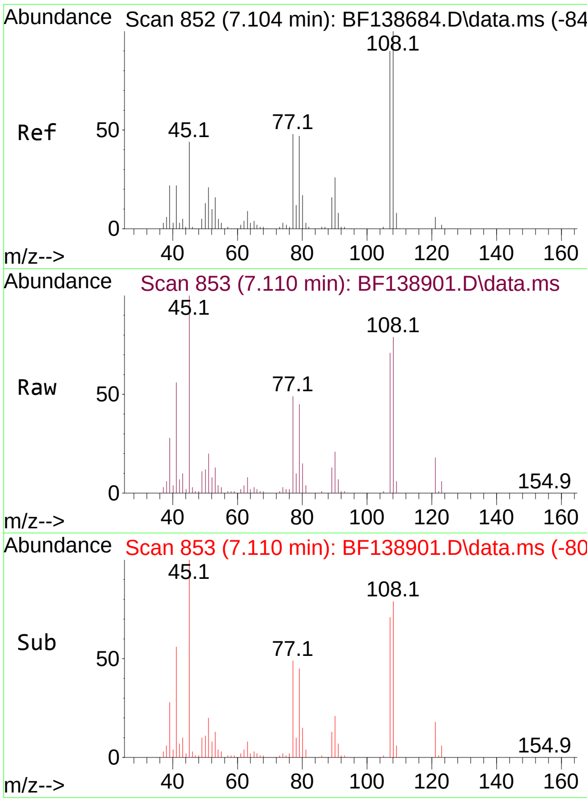
Ion	Ratio	Lower	Upper
45	100		
77	35.4	0.0	34.9#
79	32.2	0.0	32.2#



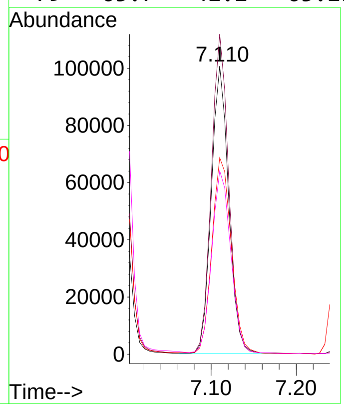
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

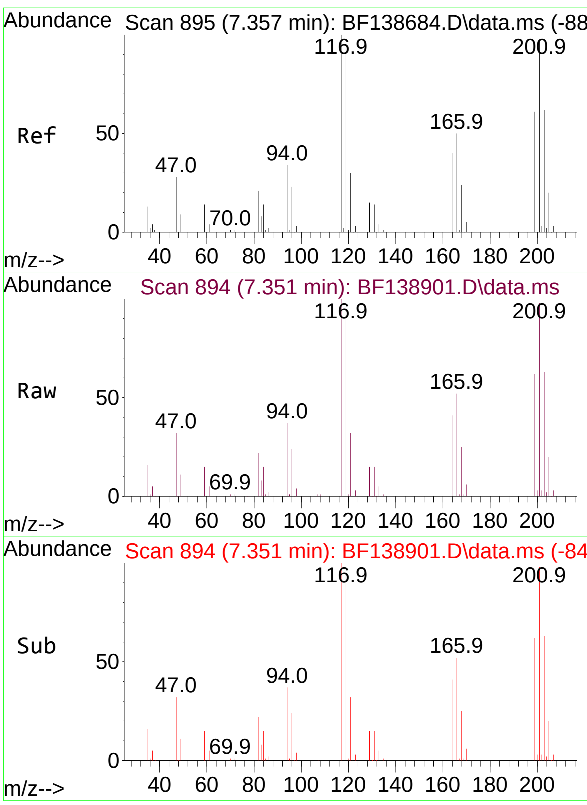
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

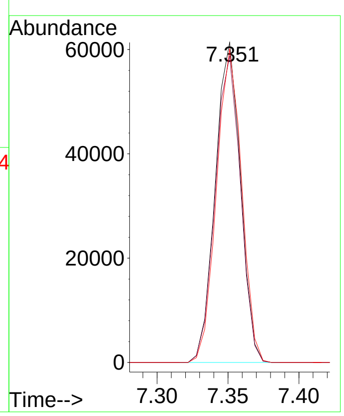



```
#17
2-Methylphenol
Concen:   40.163 ng
RT:   7.110 min  Scan# 8!
Delta R.T.  0.006 min
Lab File:   BF138901.D
Acq: 10 Aug 2024  10:41

Tgt Ion:107 Resp:  14293!
Ion  Ratio  Lower  Upper
107  100
108  111.1   89.2  133.8
 77   68.2   43.0   64.4#
 79   63.7   42.2   63.2#
```

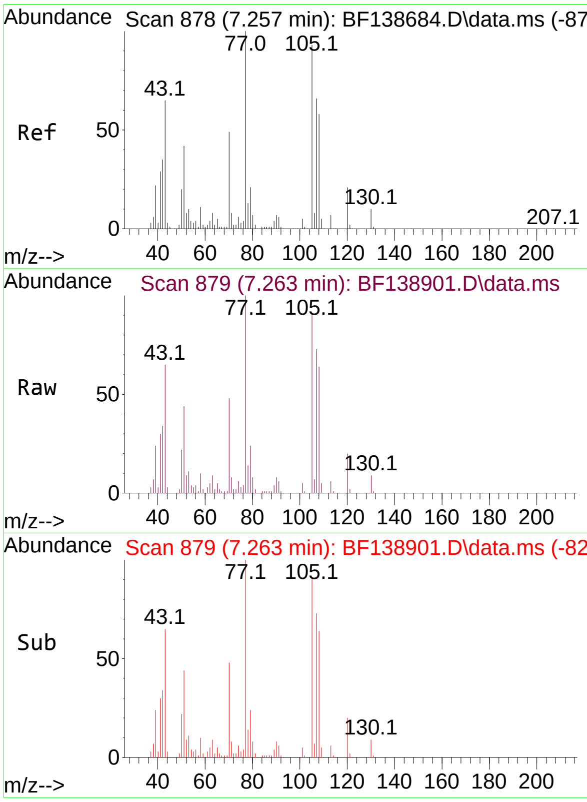





```
#18
Hexachloroethane
Concen:   41.486 ng
RT:   7.351 min  Scan# 894
Delta R.T.  -0.006 min
Lab File:   BF138901.D
Acq: 10 Aug 2024  10:41

Tgt Ion:117 Resp:   76031
Ion  Ratio  Lower  Upper
117  100
119   95.8   74.6  111.8
201   97.9   77.2  115.8
```



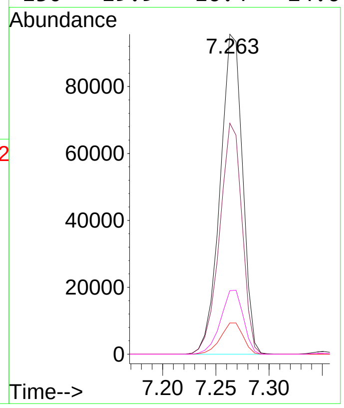
Sample Results: **BF138901.D**



#19
n-Nitroso-di-n-propylamine
Concen: 42.274 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 70 Resp: 14042

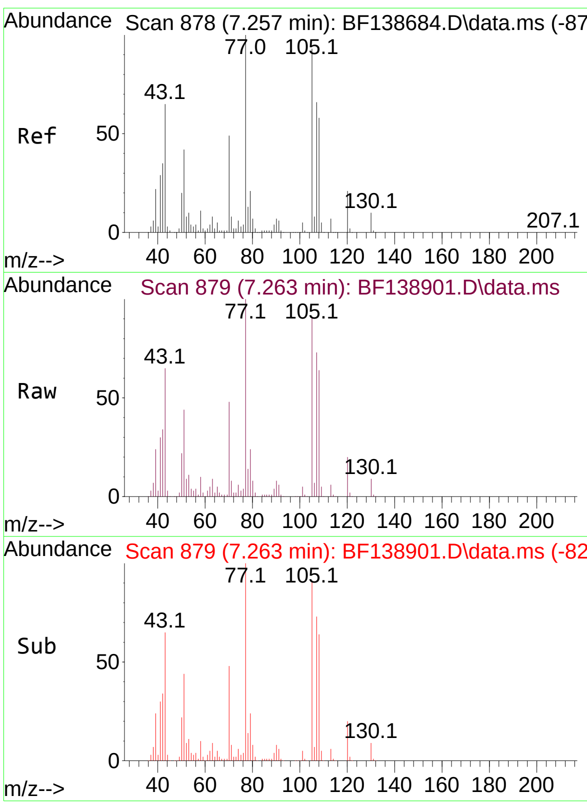
Ion	Ratio	Lower	Upper
70	100		
42	72.2	57.4	86.0
101	9.7	7.5	11.3
130	19.9	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

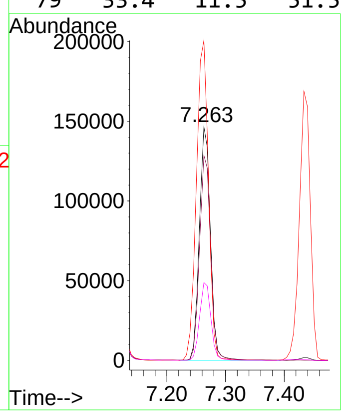
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024



#20
3+4-Methylphenols
Concen: 42.440 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:107 Resp: 193788

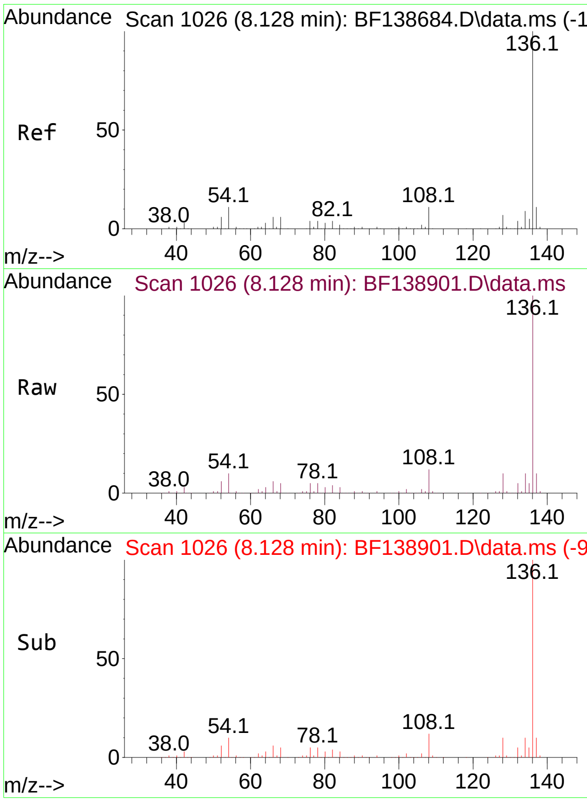
Ion	Ratio	Lower	Upper
107	100		
108	87.8	68.2	108.2
77	136.9	132.1	172.1
79	33.4	11.5	51.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

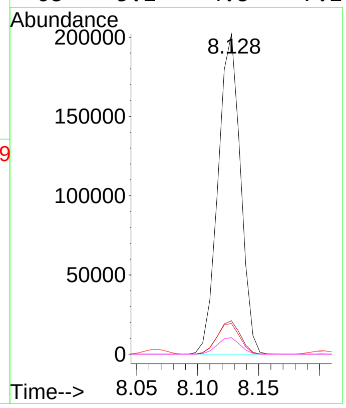
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

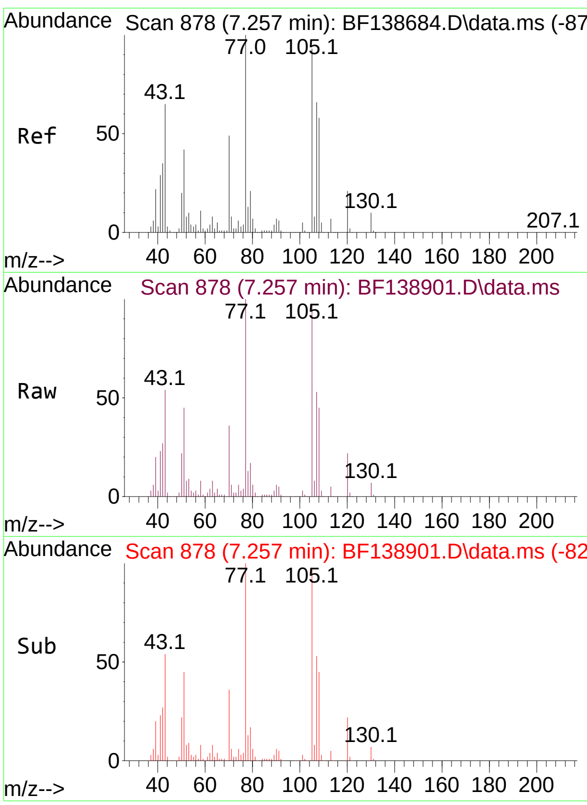


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:136 Resp: 25854

Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.9	13.3
54	9.6	8.6	12.8
68	5.2	4.8	7.2

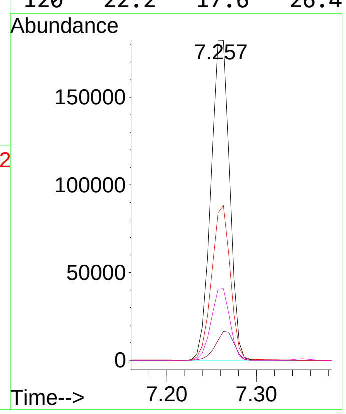


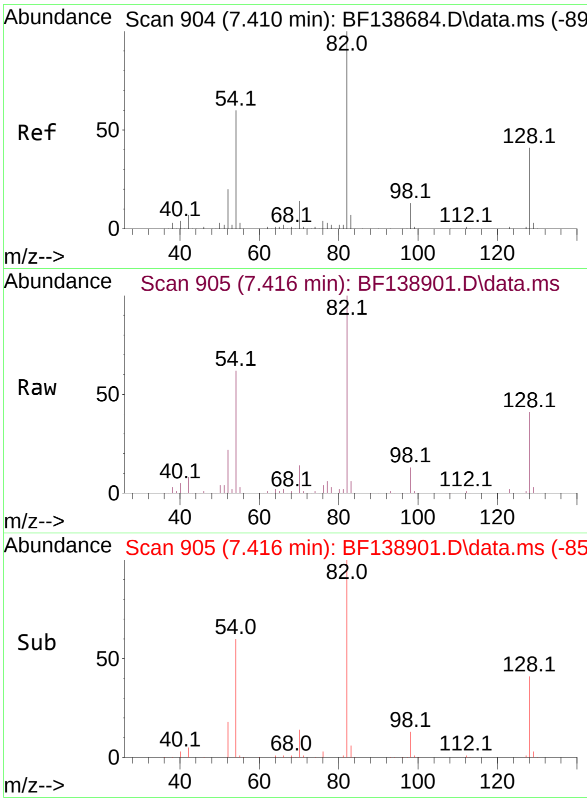


#22
Acetophenone
Concen: 41.744 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:105 Resp: 264253

Ion	Ratio	Lower	Upper
105	100		
71	6.3	7.2	10.8#
51	46.1	35.9	53.9
120	22.2	17.6	26.4





#23
Nitrobenzene-d5
Concen: 83.191 ng
RT: 7.416 min Scan# 90
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

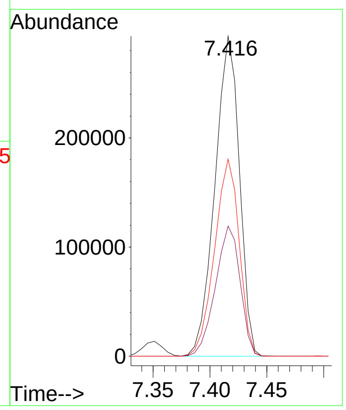
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

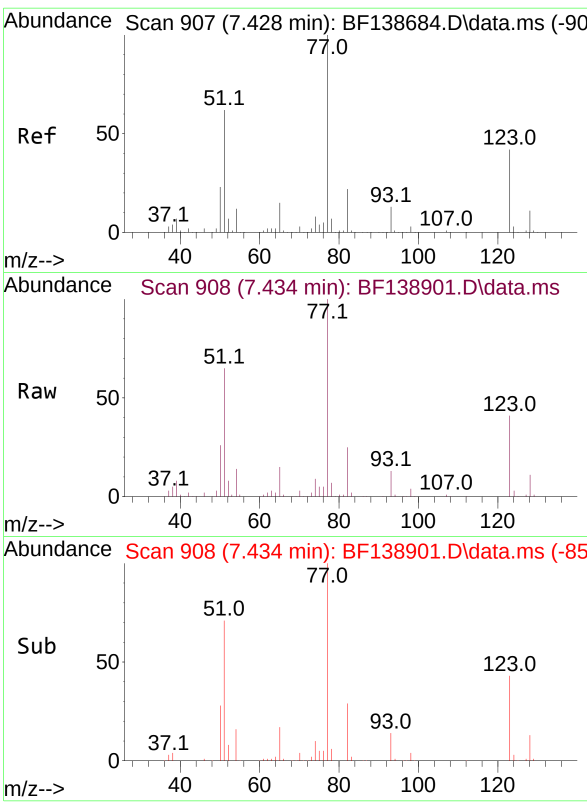
Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

Tgt Ion: 82 Resp: 43992

Ion	Ratio	Lower	Upper
82	100		
128	40.7	32.8	49.2
54	61.6	48.3	72.5

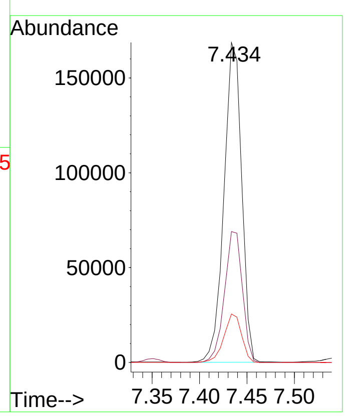




#24
Nitrobenzene
Concen: 40.822 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 77 Resp: 219665

Ion	Ratio	Lower	Upper
77	100		
123	40.9	33.3	49.9
65	15.1	11.9	17.9

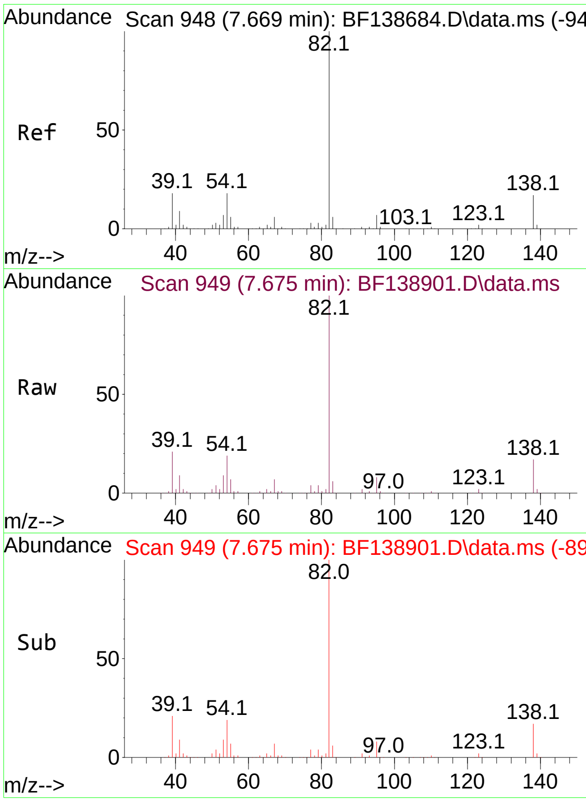


Sample Results: **BF138901.D**

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

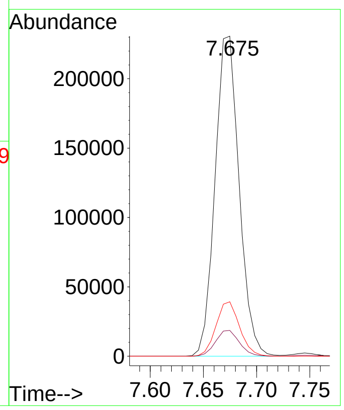
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

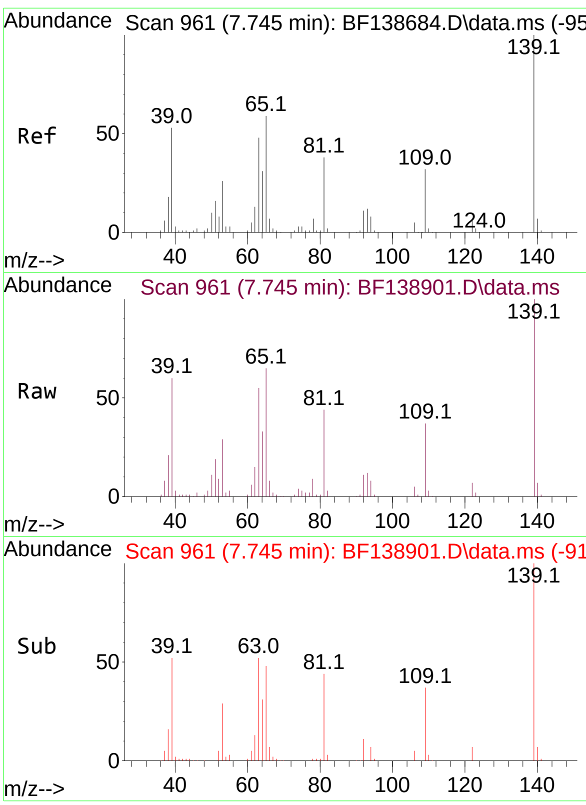


#25
Isophorone
Concen: 40.211 ng
RT: 7.675 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 82 Resp: 363094

Ion	Ratio	Lower	Upper
82	100		
95	8.0	5.7	8.5
138	17.0	13.7	20.5

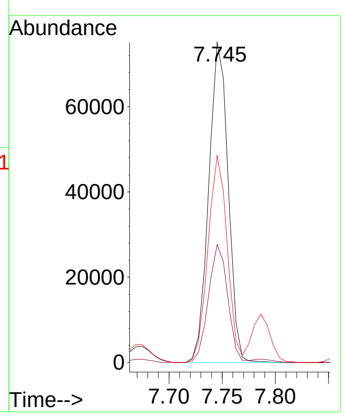


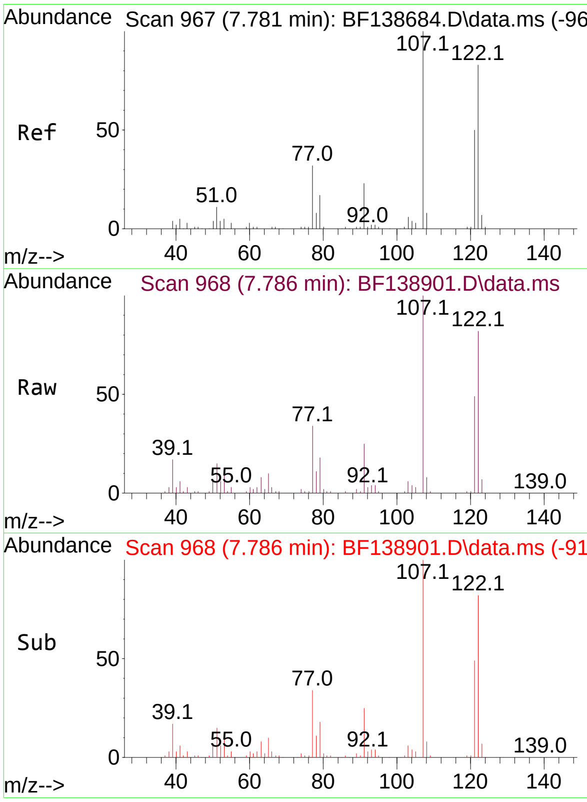


#26
2-Nitrophenol
Concen: 41.134 ng
RT: 7.745 min Scan# 961
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:139 Resp: 95229

Ion	Ratio	Lower	Upper
139	100		
109	36.9	25.9	38.9
65	64.6	47.0	70.6





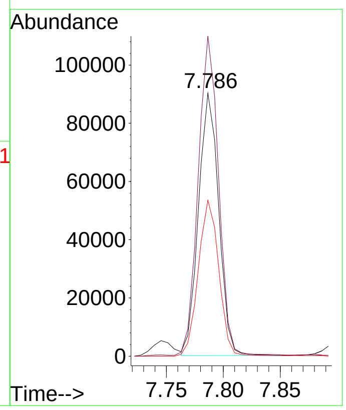
#27
2,4-Dimethylphenol
Concen: 40.261 ng
RT: 7.786 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

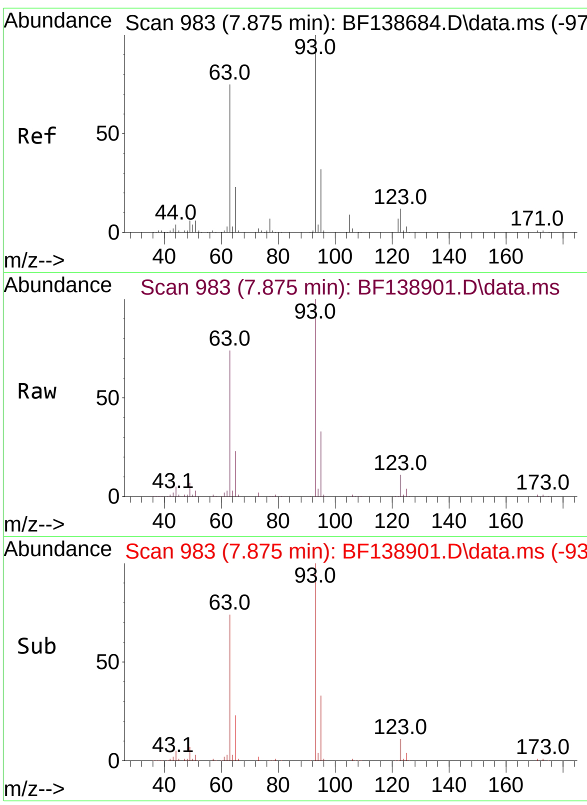
Tgt Ion:122 Resp: 11152

Ion	Ratio	Lower	Upper
122	100		
107	121.6	95.0	142.6
121	59.3	47.3	70.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

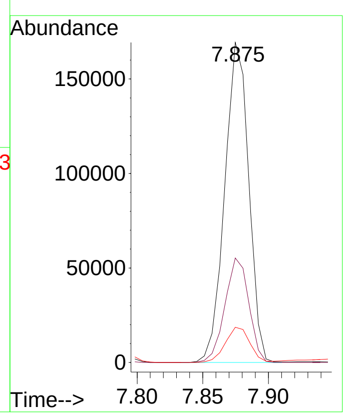


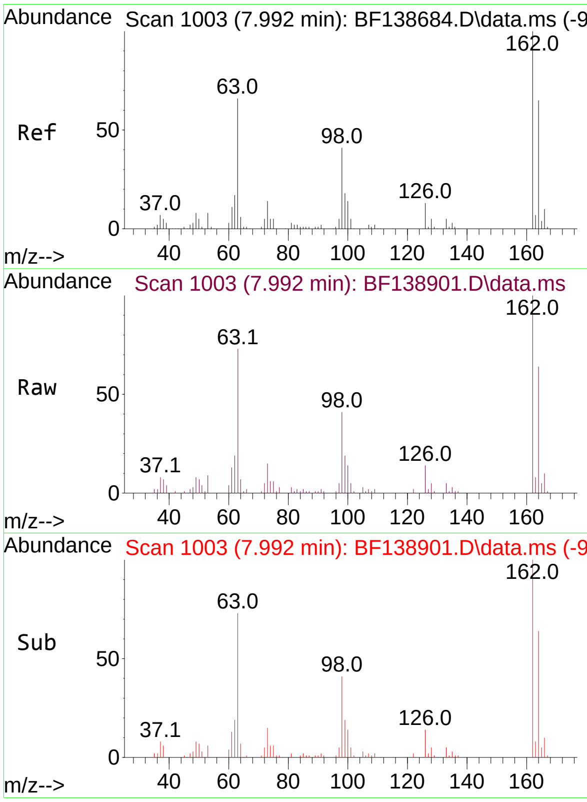


#28
bis(2-Chloroethoxy)methane
Concen: 39.163 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 93 Resp: 215348

Ion	Ratio	Lower	Upper
93	100		
95	32.6	25.8	38.8
123	11.0	9.4	14.0





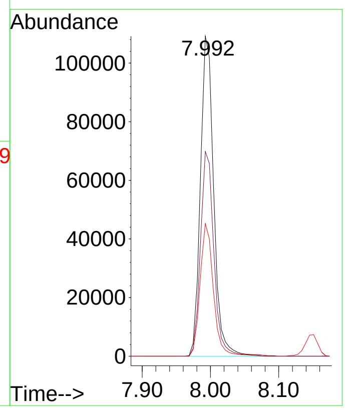
#29
2,4-Dichlorophenol
Concen: 41.631 ng
RT: 7.992 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

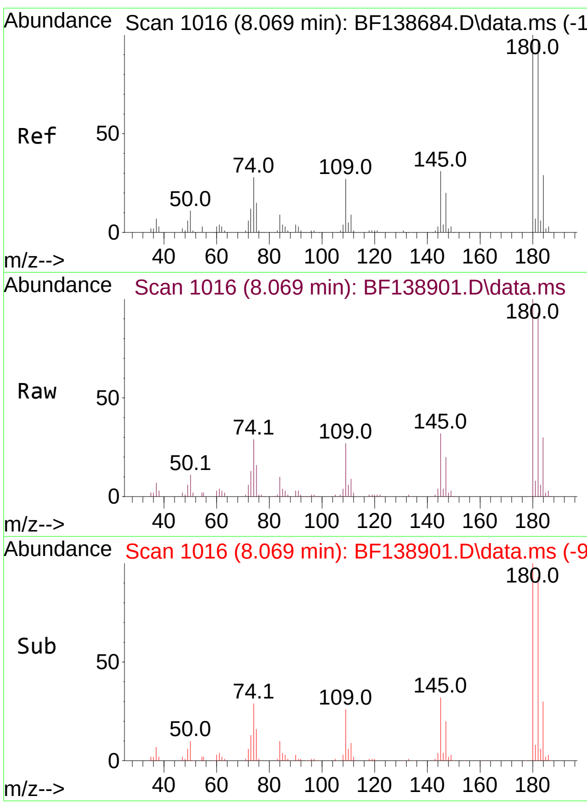
Tgt Ion:162 Resp: 14817

Ion	Ratio	Lower	Upper
162	100		
164	64.0	44.7	84.7
98	41.5	20.8	60.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

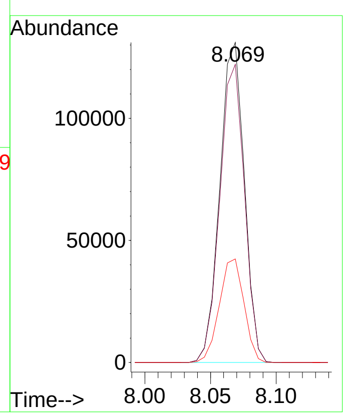




#30
1,2,4-Trichlorobenzene
Concen: 41.335 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:180 Resp: 169785

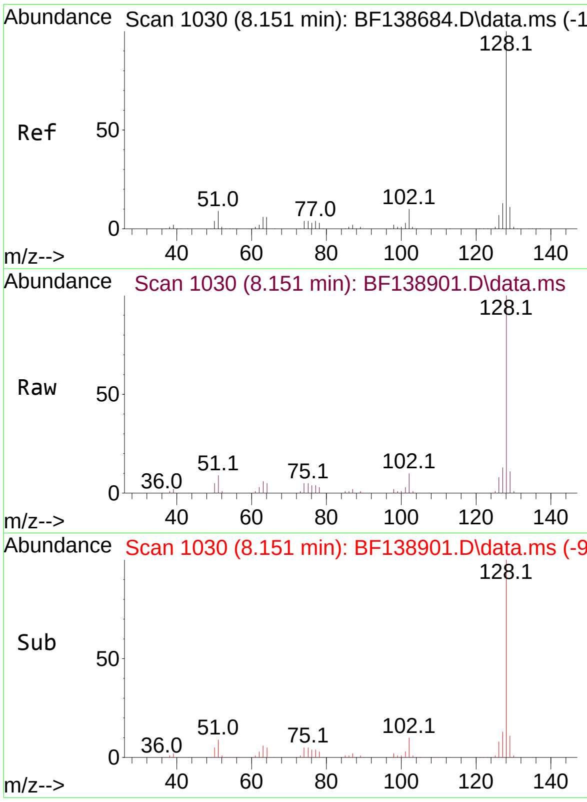
Ion	Ratio	Lower	Upper
180	100		
182	93.2	76.9	115.3
145	32.4	25.0	37.4



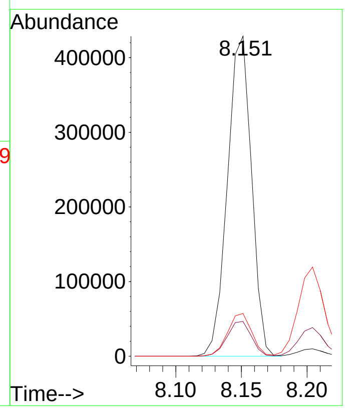
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

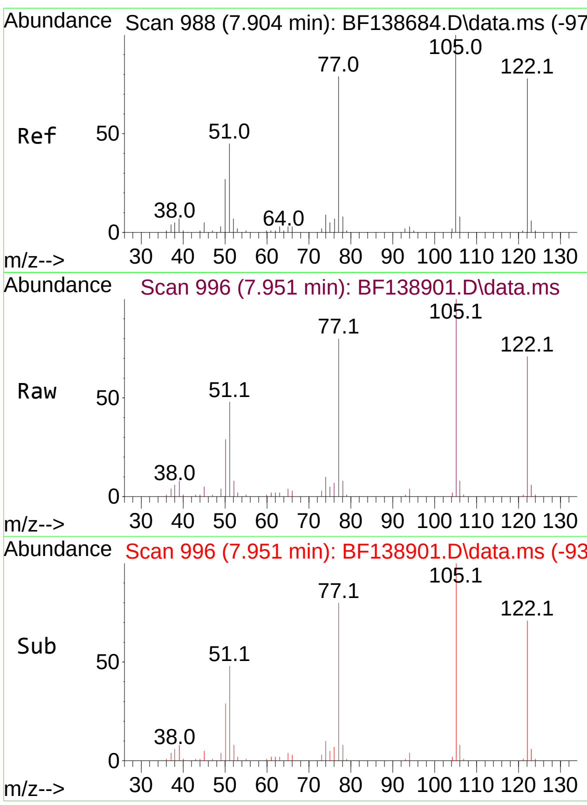
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

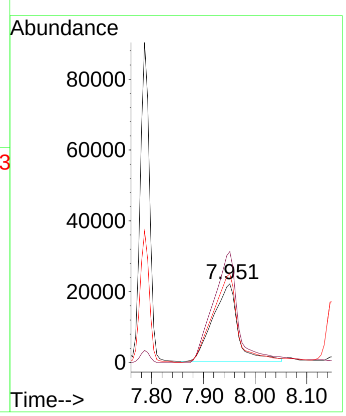



```
#31
Naphthalene
Concen:   40.229 ng
RT:   8.151 min   Scan# 10
Delta R.T.   0.000 min
Lab File:   BF138901.D
Acq: 10 Aug 2024   10:41

Tgt Ion:128 Resp:   54746
Ion   Ratio   Lower   Upper
128   100
129    10.8     8.7    13.1
127    13.3    10.6    16.0
```






```
#32
Benzoic acid
Concen:   33.892 ng
RT:   7.951 min   Scan# 996
Delta R.T.   0.047 min
Lab File:   BF138901.D
Acq: 10 Aug 2024   10:41

Tgt Ion:122 Resp:    73794
Ion   Ratio   Lower   Upper
122   100
105   141.4   106.7   146.7
 77   113.0    81.1   121.1
```

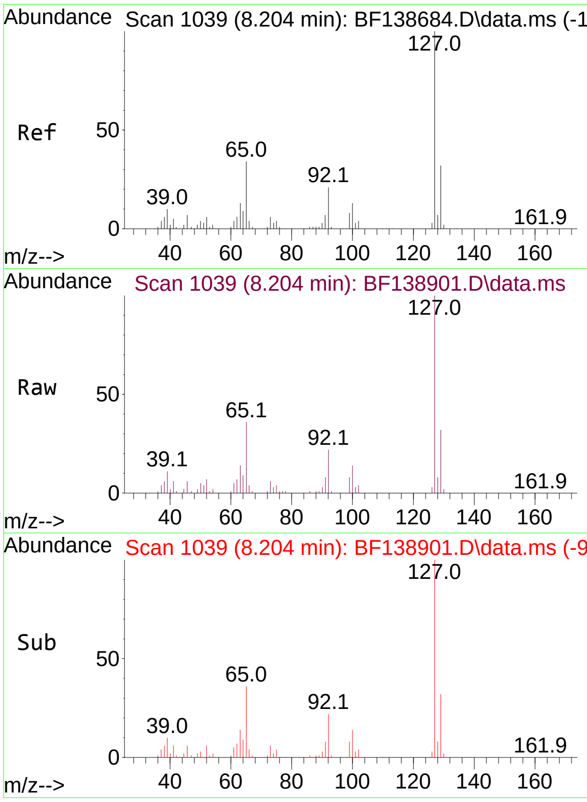


Sample Results: **BF138901.D**

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

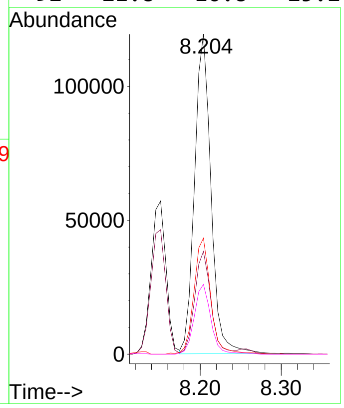
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

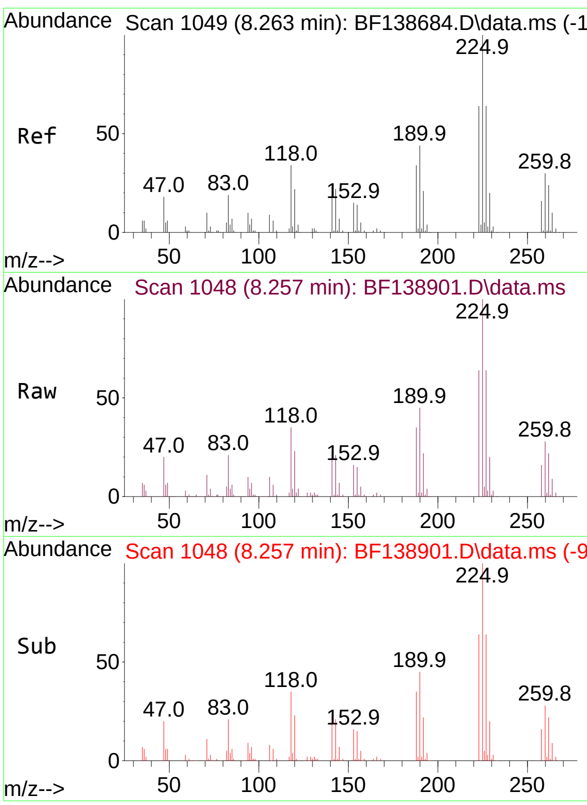


#33
4-Chloroaniline
Concen: 36.967 ng
RT: 8.204 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:127 Resp: 16887

Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.9	38.9
65	36.2	27.6	41.4
92	21.8	16.8	25.2

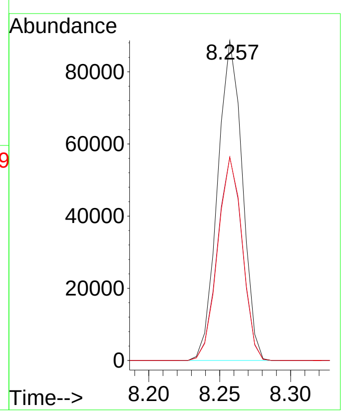


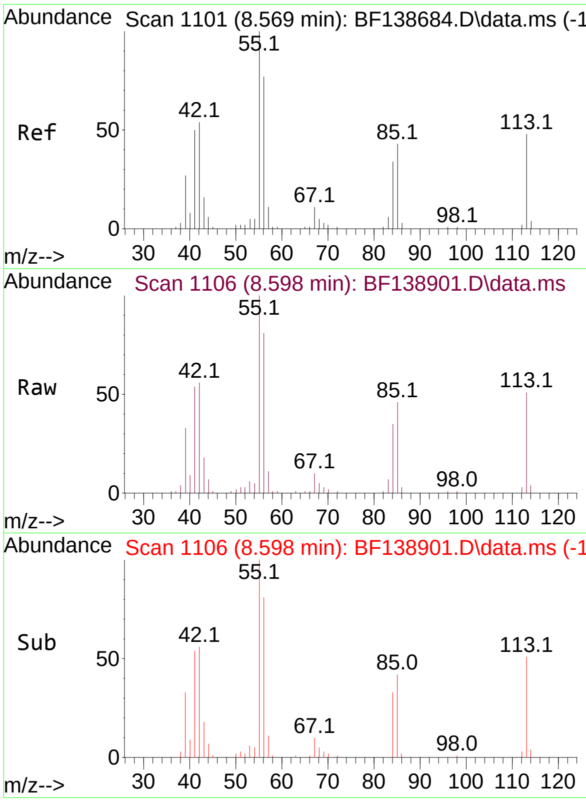


#34
Hexachlorobutadiene
Concen: 43.255 ng
RT: 8.257 min Scan# 1048
Delta R.T. -0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:225 Resp: 107615

Ion	Ratio	Lower	Upper
225	100		
223	63.7	51.2	76.8
227	63.5	51.1	76.7





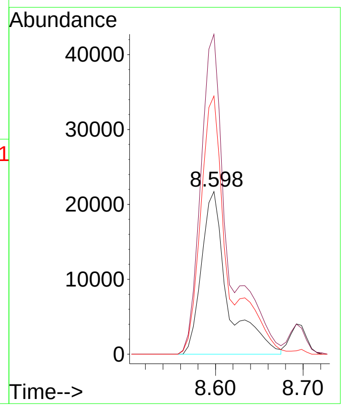
#35
Caprolactam
Concen: 42.813 ng m
RT: 8.598 min Scan# 1
Delta R.T. 0.029 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

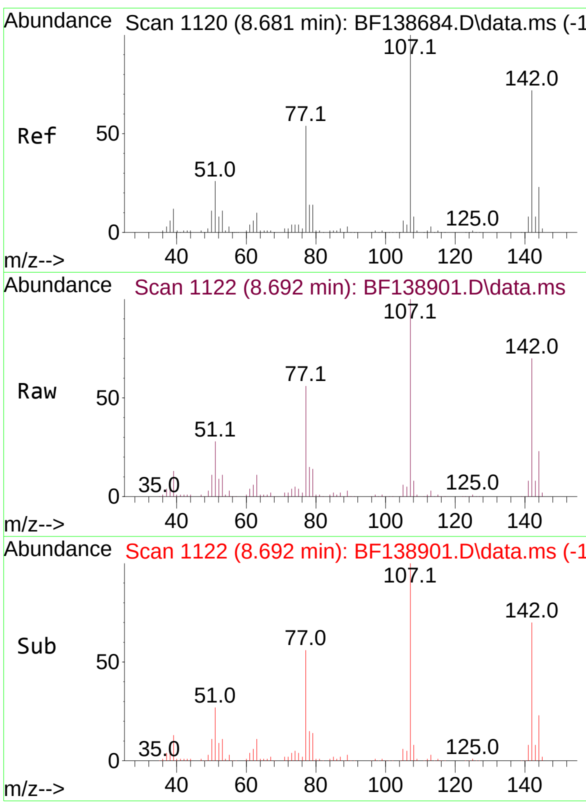
Tgt Ion:113 Resp: 4546

Ion	Ratio	Lower	Upper
113	100		
55	196.6	186.7	226.7
56	158.6	138.9	178.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

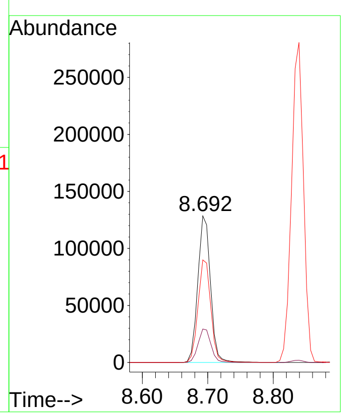




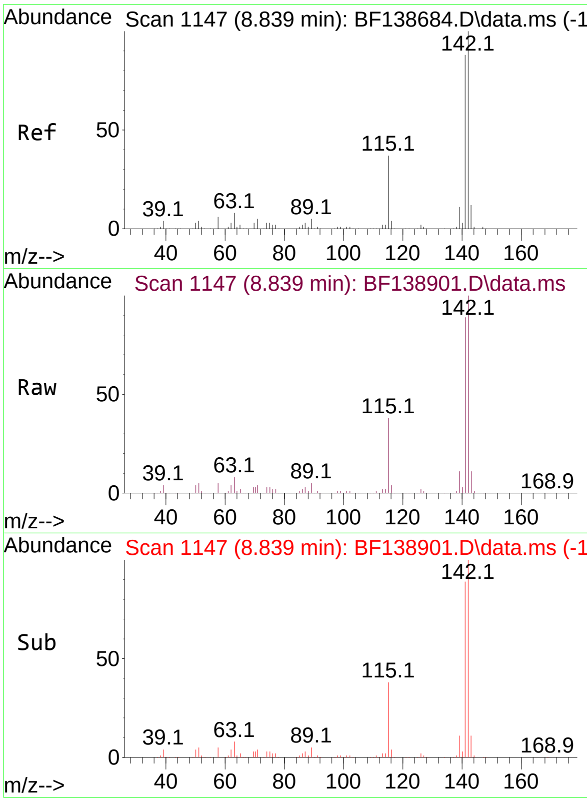
#36
4-Chloro-3-methylphenol
Concen: 42.827 ng
RT: 8.692 min Scan# 1122
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:107 Resp: 174210

Ion	Ratio	Lower	Upper
107	100		
144	22.8	18.2	27.2
142	69.9	57.4	86.2



Sample Results: **BF138901.D**



#37
2-Methylnaphthalene
Concen: 41.582 ng
RT: 8.839 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

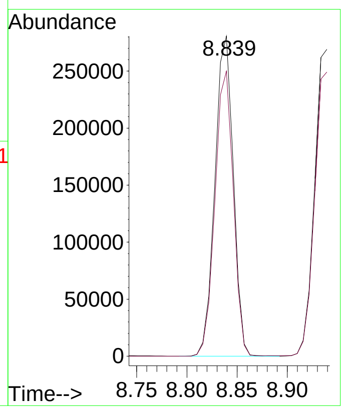
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

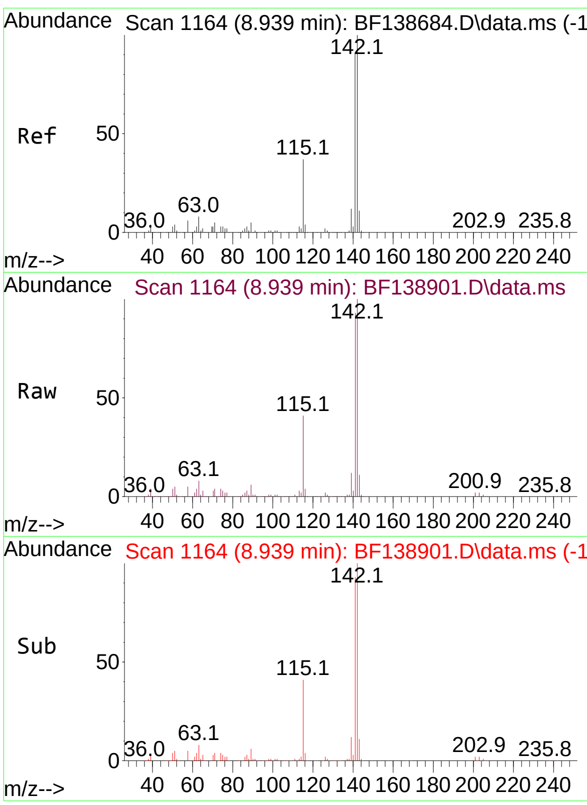
Tgt Ion:142 Resp: 35738

Ion	Ratio	Lower	Upper
142	100		
141	89.0	70.8	106.2

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

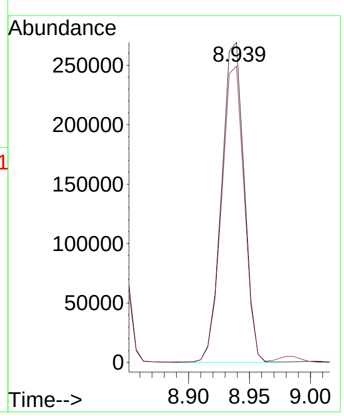




#38
1-Methylnaphthalene
Concen: 41.263 ng
RT: 8.939 min Scan# 1164
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:142 Resp: 347514

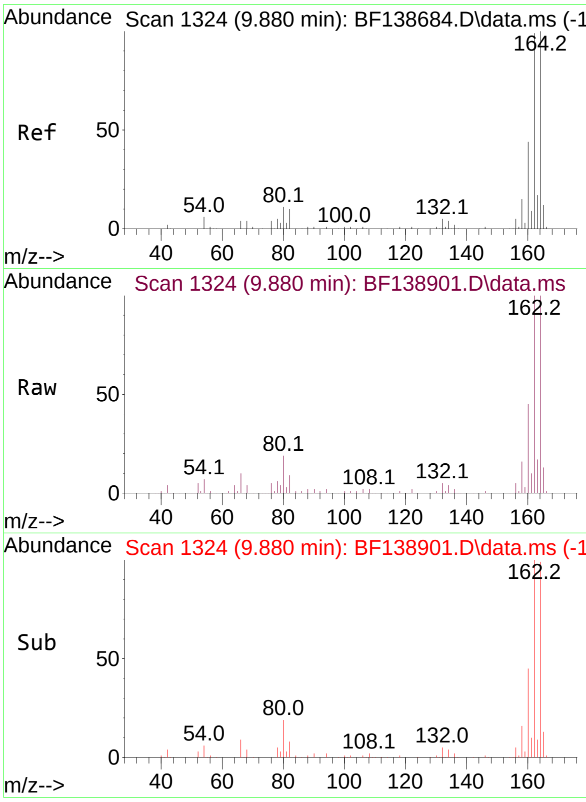
Ion	Ratio	Lower	Upper
142	100		
141	92.6	73.1	109.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

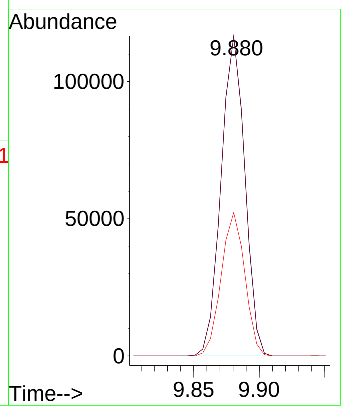
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

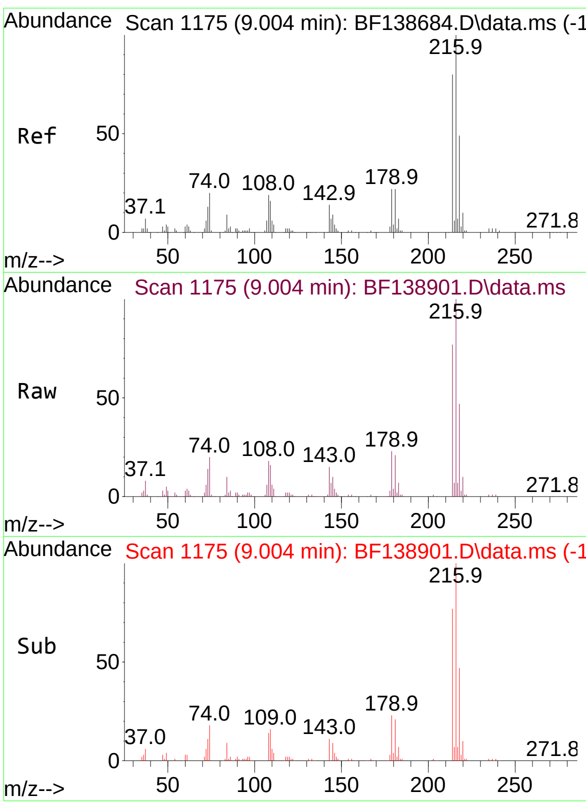


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:164 Resp: 14626

Ion	Ratio	Lower	Upper
164	100		
162	100.1	79.4	119.0
160	44.9	35.1	52.7

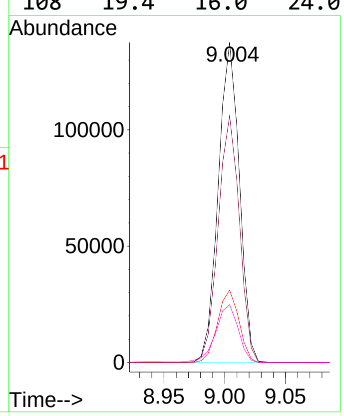


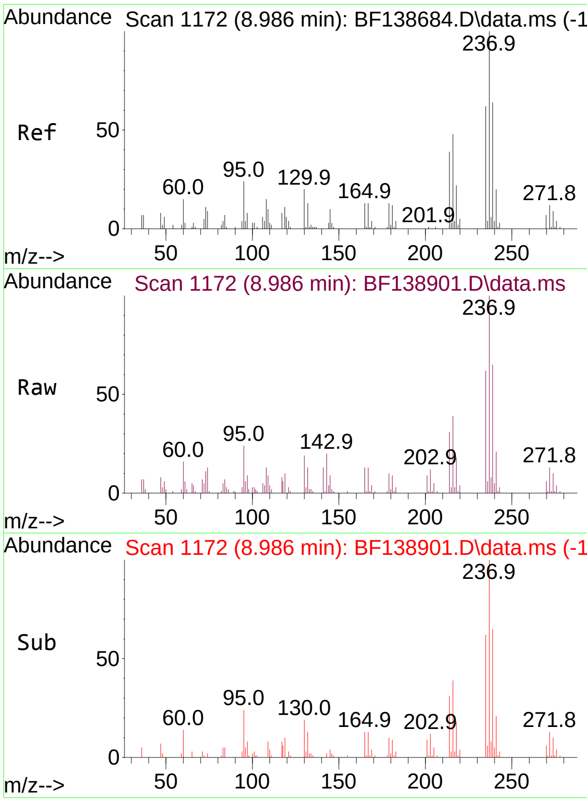


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.018 ng
RT: 9.004 min Scan# 1175
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:216 Resp: 166654

Ion	Ratio	Lower	Upper
216	100		
214	77.4	63.9	95.9
179	22.8	17.8	26.6
108	19.4	16.0	24.0

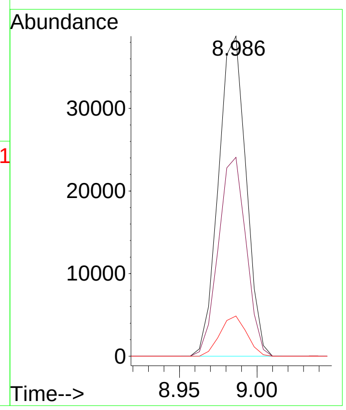




#41
Hexachlorocyclopentadiene
Concen: 47.645 ng
RT: 8.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

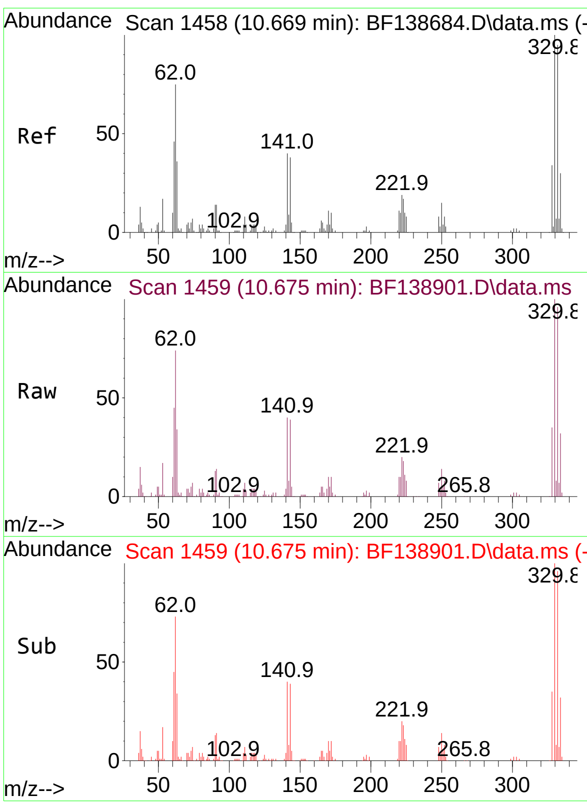
Tgt Ion:237 Resp: 4791

Ion	Ratio	Lower	Upper
237	100		
235	62.2	41.8	81.8
272	12.5	0.0	32.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

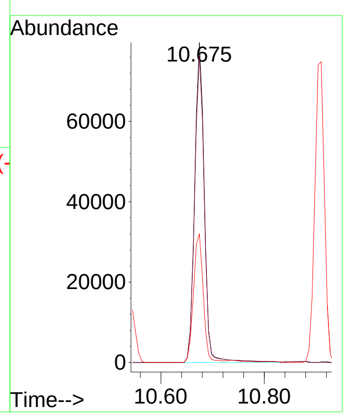
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024



#42
2,4,6-Tribromophenol
Concen: 86.555 ng
RT: 10.675 min Scan# 1459
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:330 Resp: 103699

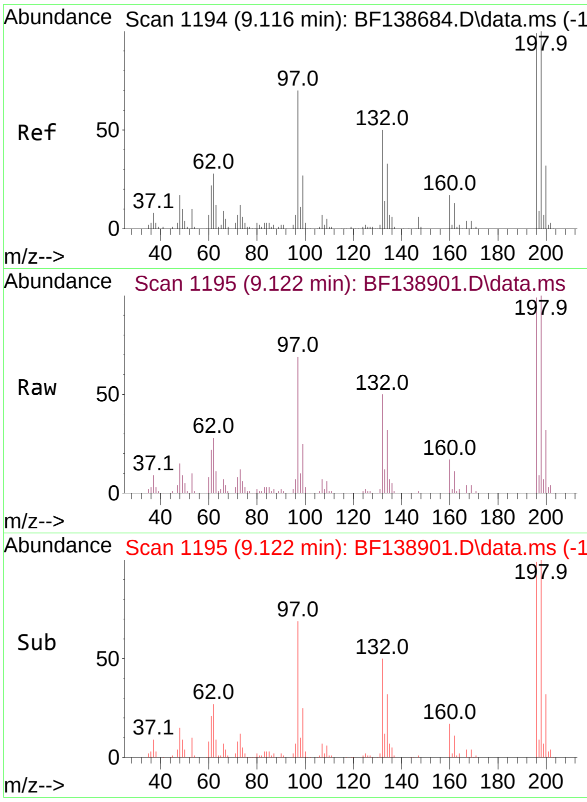
Ion	Ratio	Lower	Upper
330	100		
332	94.8	76.4	114.6
141	40.4	31.1	46.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

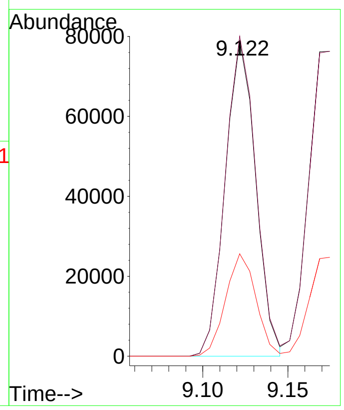
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

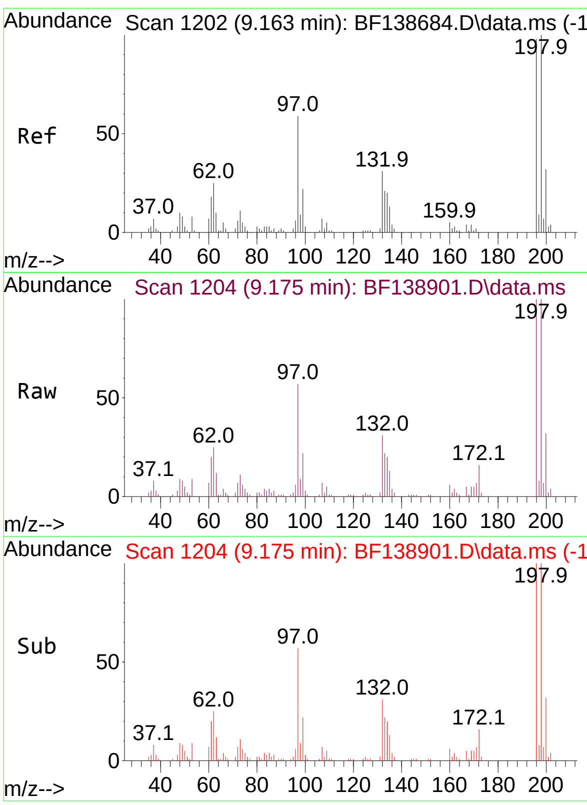


#43
2,4,6-Trichlorophenol
Concen: 39.746 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:196 Resp: 9846

Ion	Ratio	Lower	Upper
196	100		
198	101.4	80.5	120.7
200	32.4	25.9	38.9

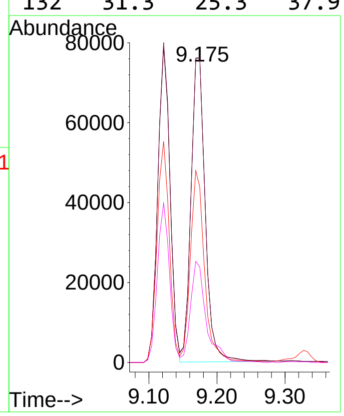




#44
2,4,5-Trichlorophenol
Concen: 40.677 ng
RT: 9.175 min Scan# 1204
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:196 Resp: 110160

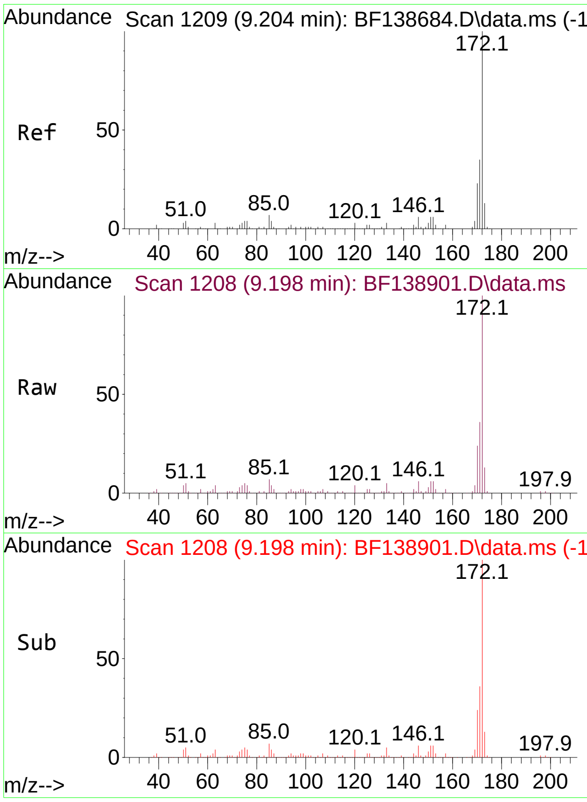
Ion	Ratio	Lower	Upper
196	100		
198	100.0	81.2	121.8
97	57.5	47.8	71.6
132	31.3	25.3	37.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

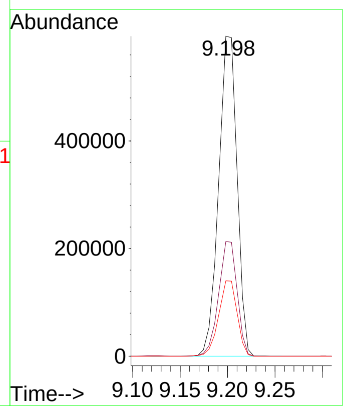
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

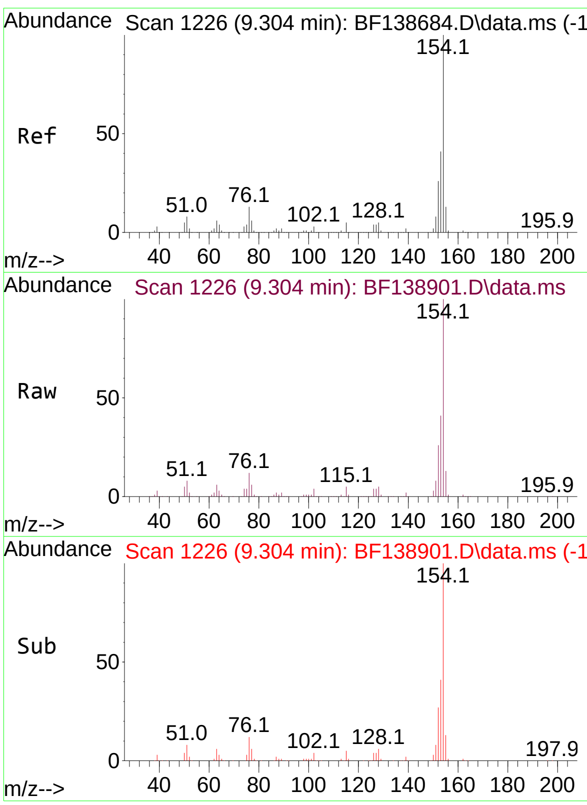


#45
2-Fluorobiphenyl
Concen: 82.684 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:172 Resp: 80488

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.3	42.5
170	23.5	18.8	28.2

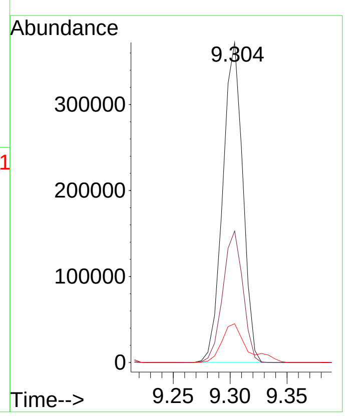




#46
1,1'-Biphenyl
Concen: 39.816 ng
RT: 9.304 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:154 Resp: 456093

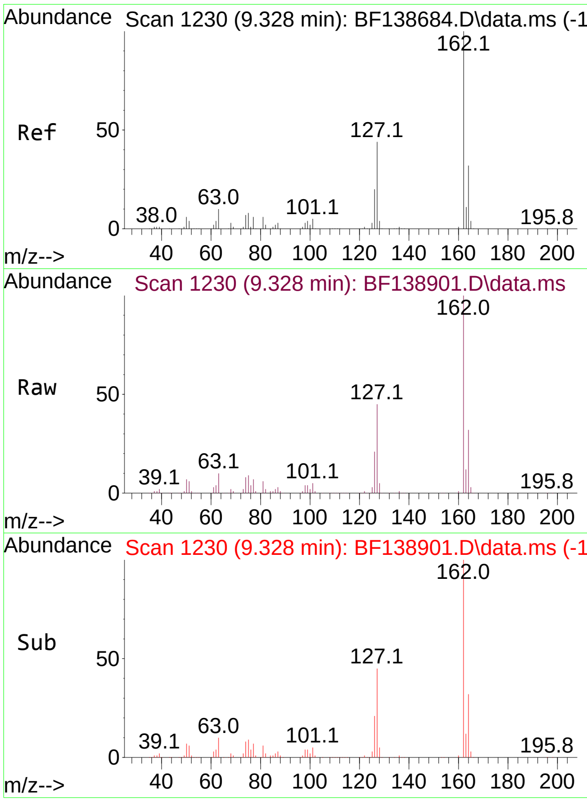
Ion	Ratio	Lower	Upper
154	100		
153	41.1	20.8	60.8
76	12.1	0.0	32.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

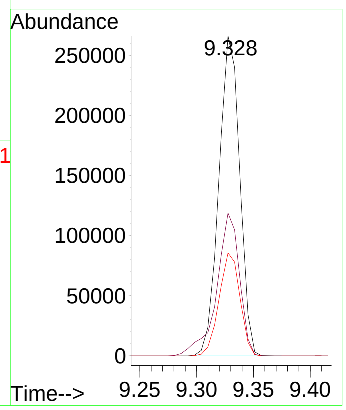
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

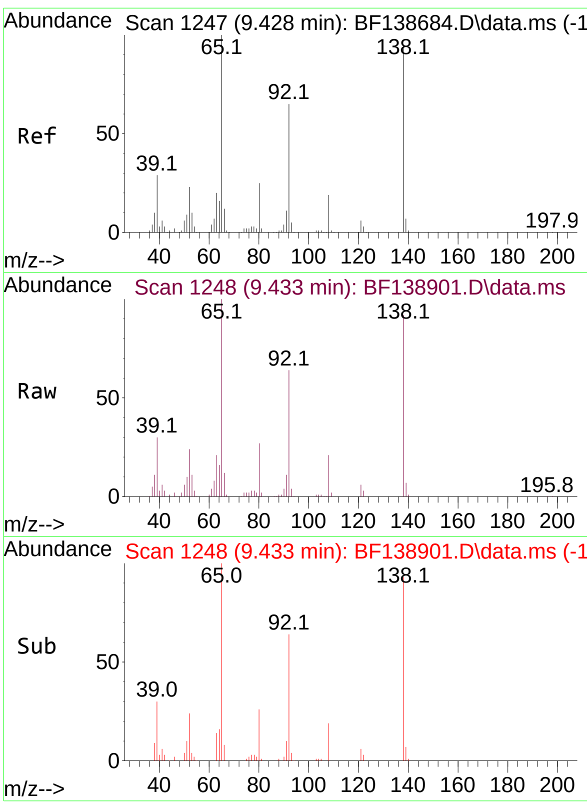


#47
2-Chloronaphthalene
Concen: 40.080 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:162 Resp: 34146

Ion	Ratio	Lower	Upper
162	100		
127	44.7	35.4	53.2
164	32.2	25.6	38.4

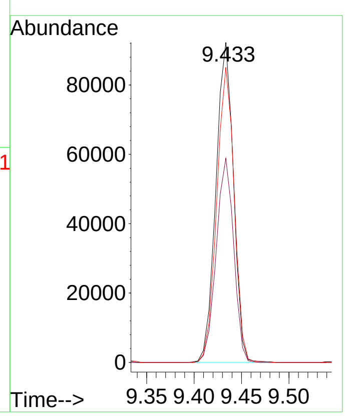




#48
2-Nitroaniline
Concen: 41.277 ng
RT: 9.433 min Scan# 1248
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 65 Resp: 119216

Ion	Ratio	Lower	Upper
65	100		
92	63.8	52.0	78.0
138	92.2	76.2	114.4

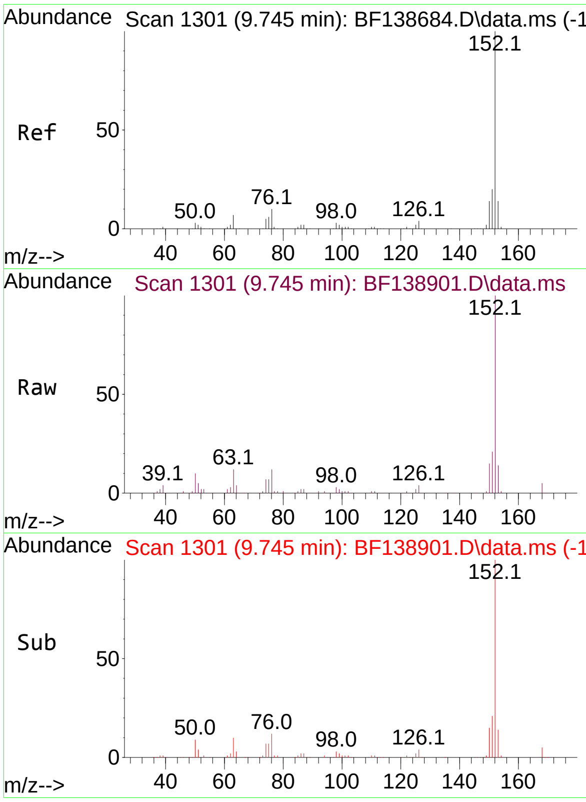


Sample Results: **BF138901.D**

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

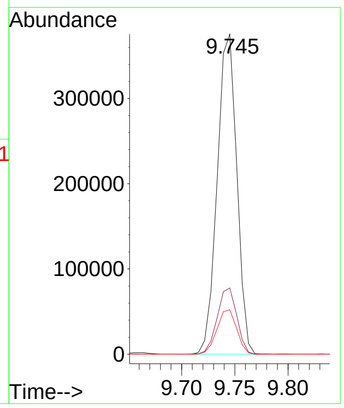
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

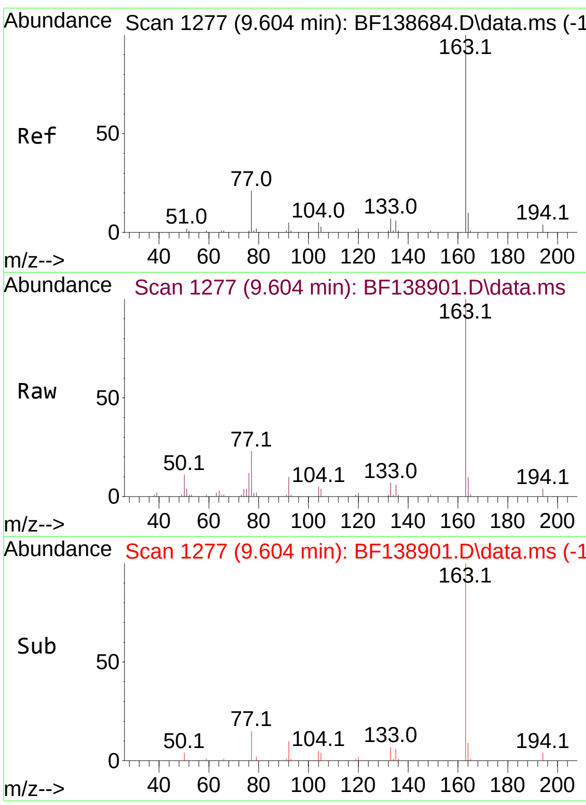


#49
Acenaphthylene
Concen: 39.744 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:152 Resp: 48023

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.0	24.0
153	13.9	11.0	16.4

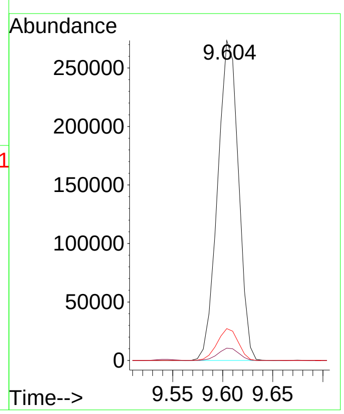




#50
Dimethylphthalate
Concen: 42.377 ng
RT: 9.604 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:163 Resp: 396316

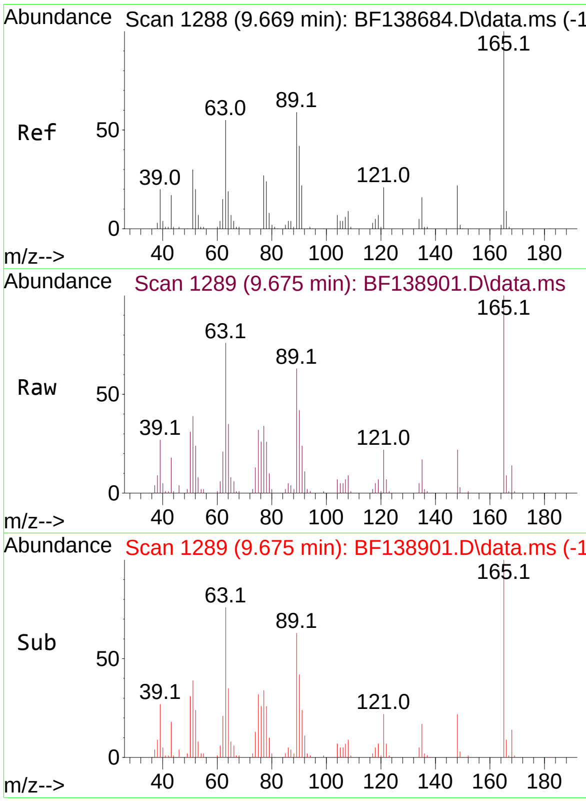
Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.0	7.8	11.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

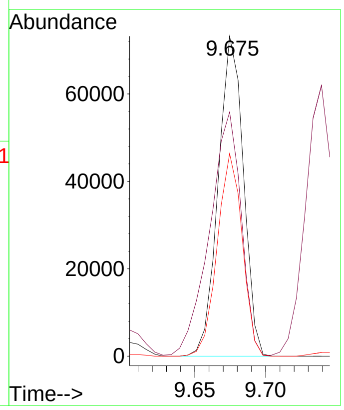
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

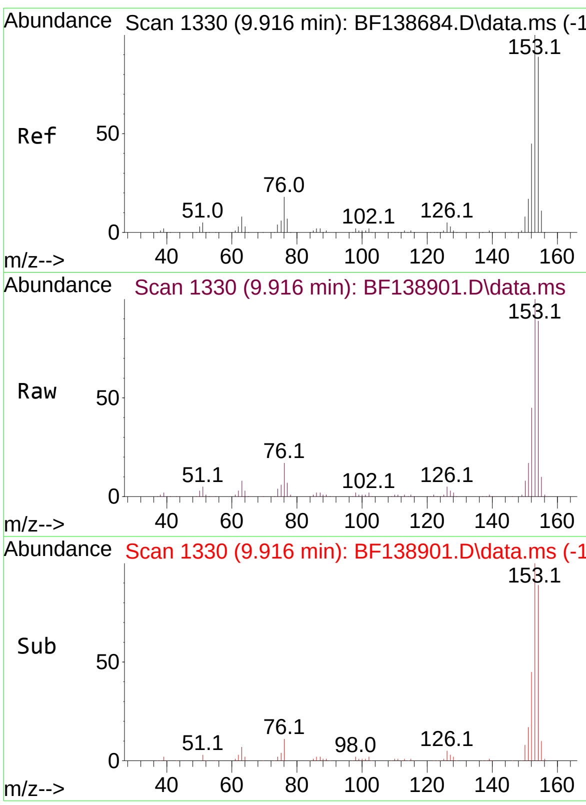


#51
2,6-Dinitrotoluene
Concen: 42.834 ng
RT: 9.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:165 Resp: 9040

Ion	Ratio	Lower	Upper
165	100		
63	76.3	52.0	78.0
89	63.3	47.0	70.6

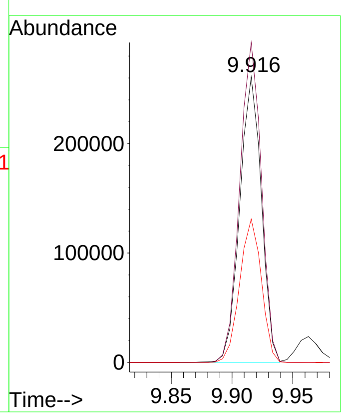


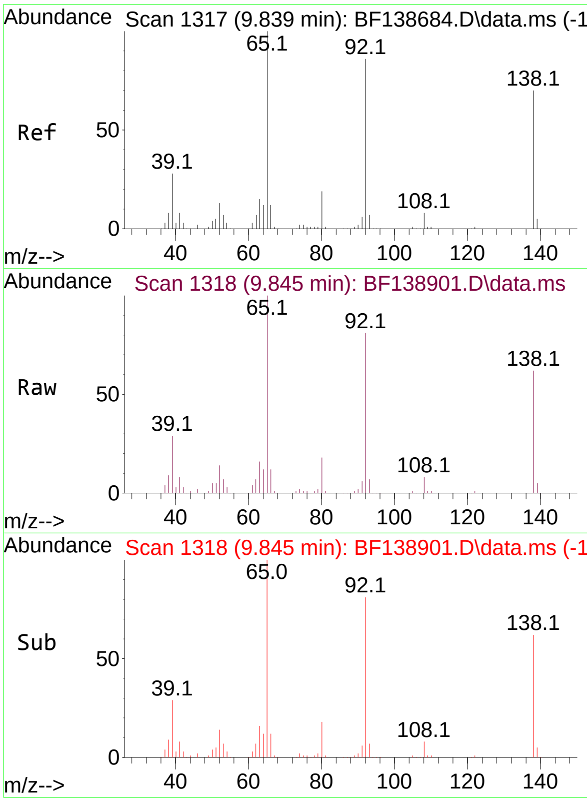


#52
Acenaphthene
Concen: 39.769 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:154 Resp: 323021

Ion	Ratio	Lower	Upper
154	100		
153	112.0	89.9	134.9
152	50.2	40.6	60.8





#53
3-Nitroaniline
Concen: 39.908 ng
RT: 9.845 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

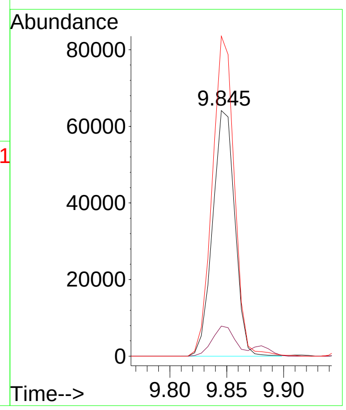
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

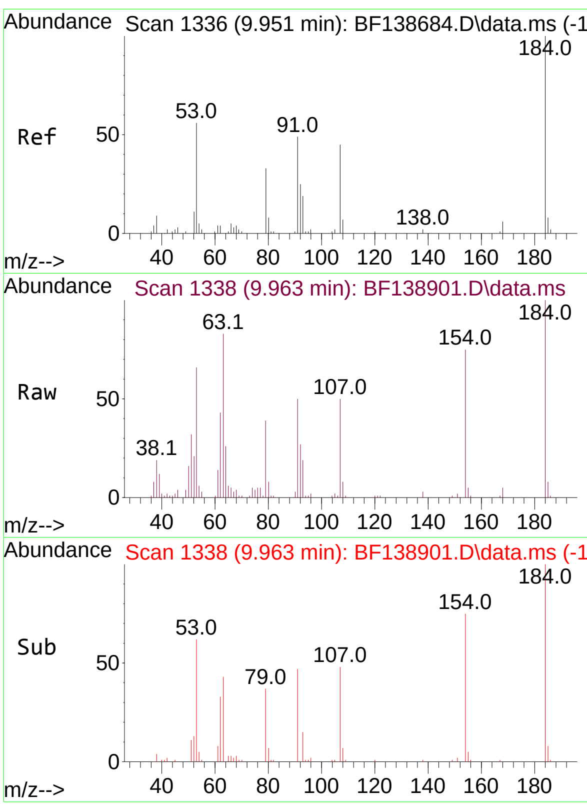
Tgt Ion:138 Resp: 8707

Ion	Ratio	Lower	Upper
138	100		
108	12.2	9.1	13.7
92	130.3	98.7	148.1

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

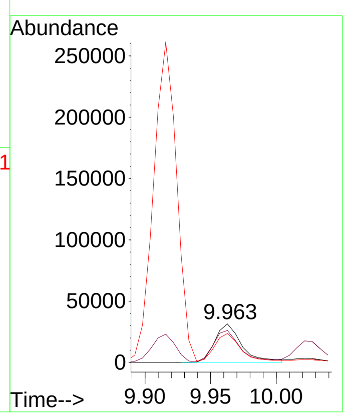




#54
2,4-Dinitrophenol
Concen: 46.071 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:184 Resp: 44762

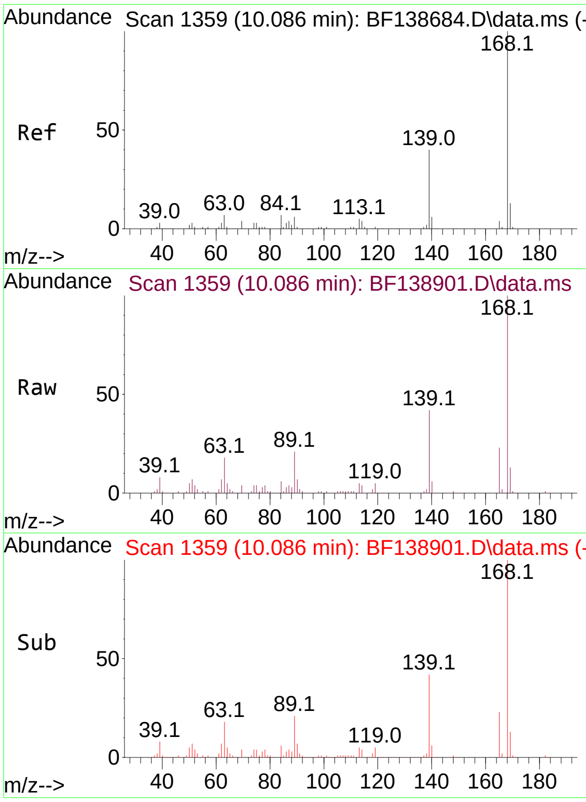
Ion	Ratio	Lower	Upper
184	100		
63	83.0	57.5	86.3
154	75.3	51.7	77.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

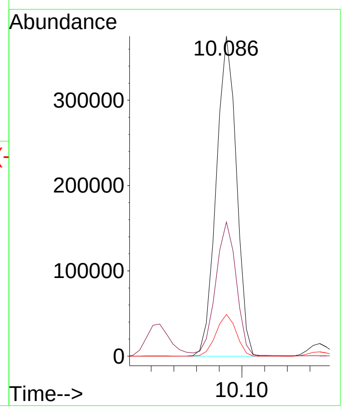
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

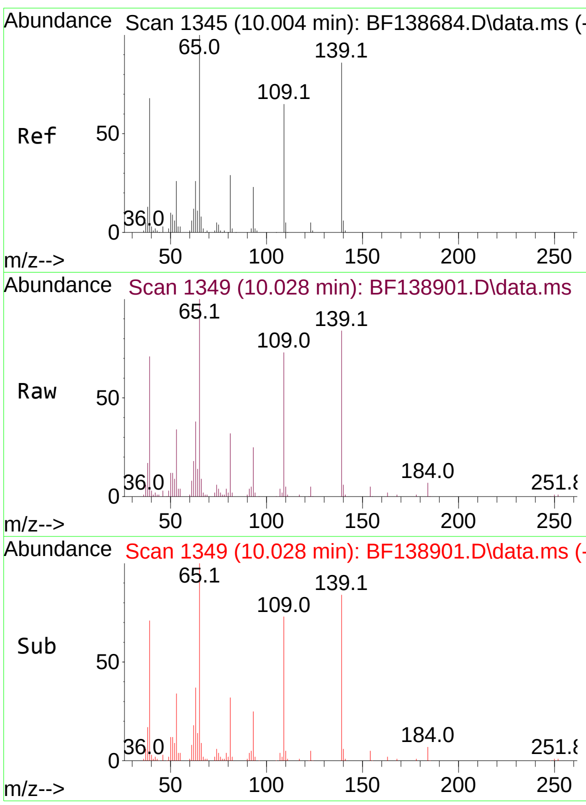


#55
Dibenzofuran
Concen: 40.561 ng
RT: 10.086 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:168 Resp: 46506

Ion	Ratio	Lower	Upper
168	100		
139	42.0	32.6	49.0
169	13.0	10.7	16.1

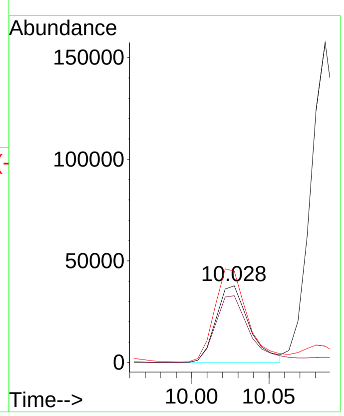




#56
4-Nitrophenol
Concen: 43.021 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.024 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

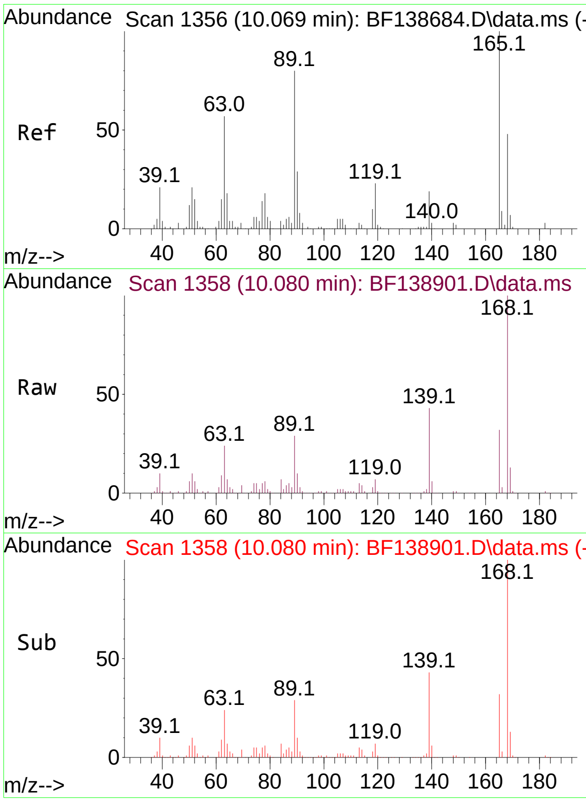
Tgt Ion:139 Resp: 56447

Ion	Ratio	Lower	Upper
139	100		
109	87.1	55.5	95.5
65	119.2	96.7	136.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

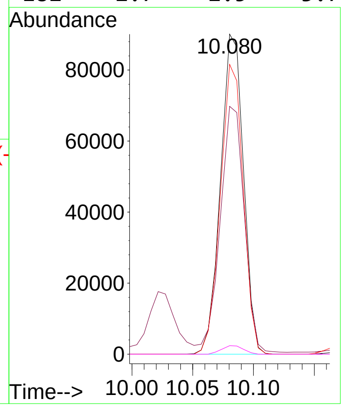
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

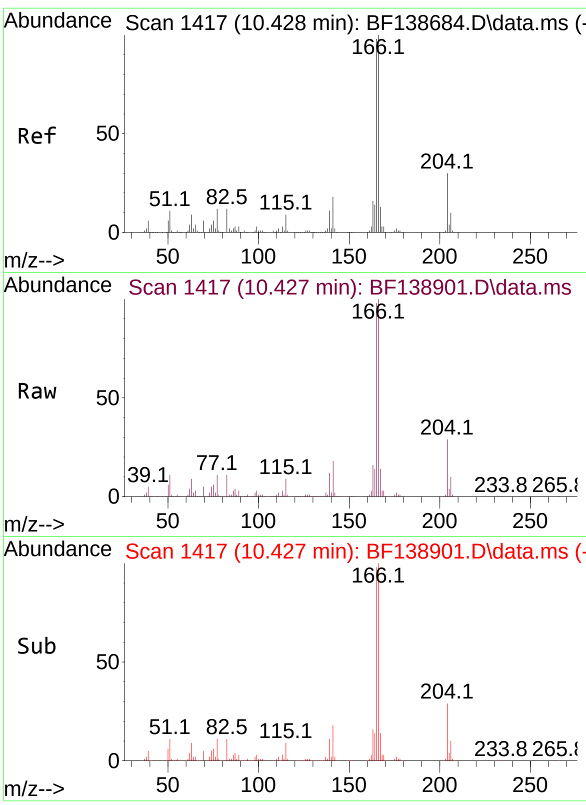


#57
2,4-Dinitrotoluene
Concen: 44.035 ng
RT: 10.080 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:165 Resp: 11857

Ion	Ratio	Lower	Upper
165	100		
63	77.5	46.3	69.5#
89	90.6	64.2	96.4
182	2.7	2.5	3.7

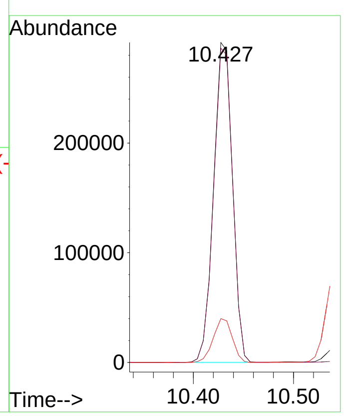




#58
Fluorene
Concen: 41.948 ng
RT: 10.427 min Scan# 1417
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:166 Resp: 383007

Ion	Ratio	Lower	Upper
166	100		
165	98.2	78.4	117.6
167	13.7	10.6	16.0

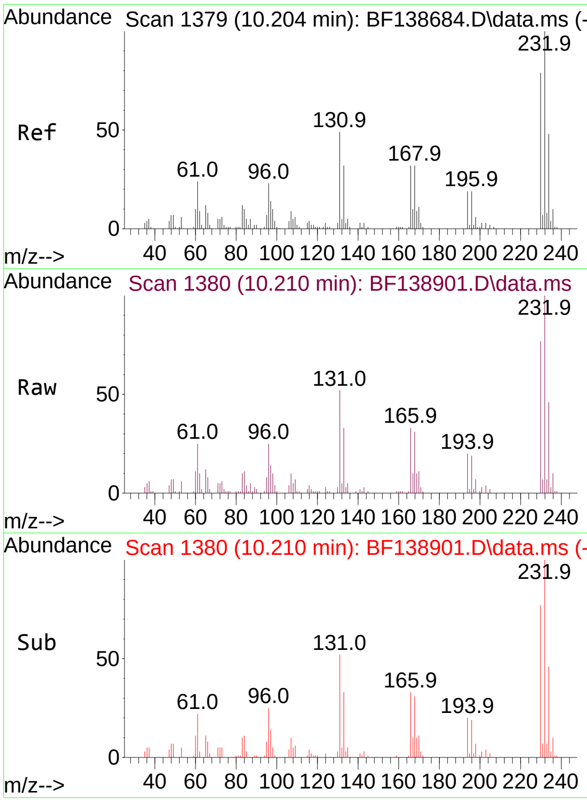


Sample Results: **BF138901.D**

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

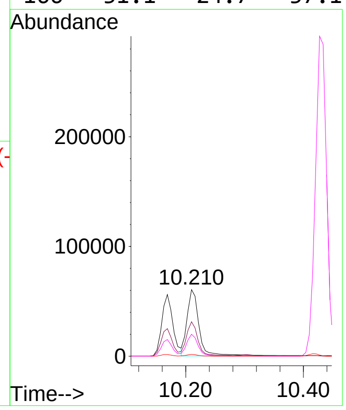
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

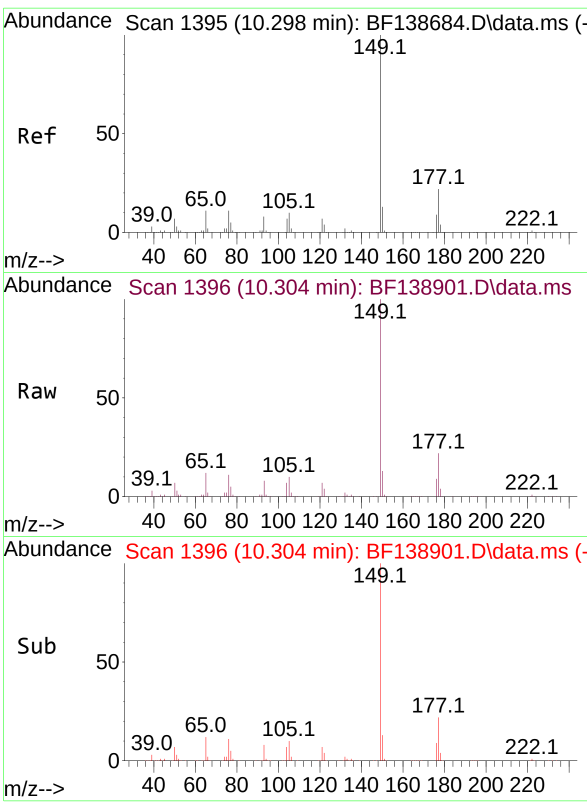


#59
2,3,4,6-Tetrachlorophenol
Concen: 41.069 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:232 Resp: 8503

Ion	Ratio	Lower	Upper
232	100		
131	50.9	37.0	55.4
130	2.7	2.0	3.0
166	31.1	24.7	37.1

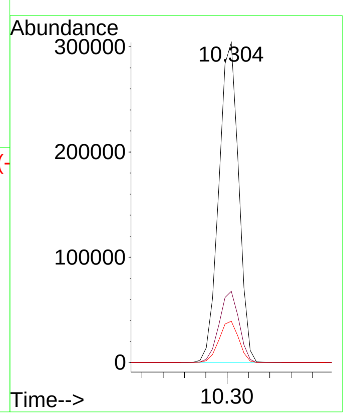




#60
Diethylphthalate
Concen: 44.254 ng
RT: 10.304 min Scan# 1396
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:149 Resp: 392422

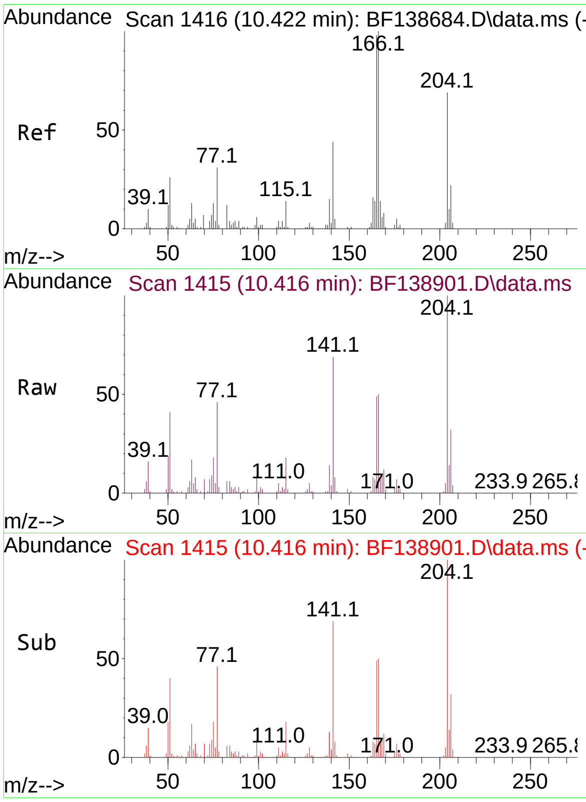
Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.8
150	12.9	10.1	15.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

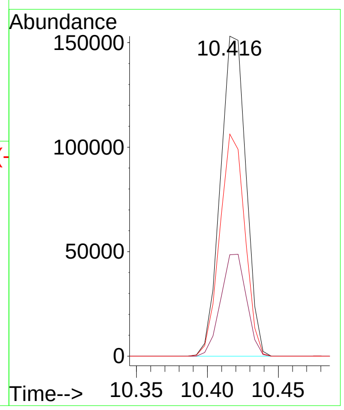
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

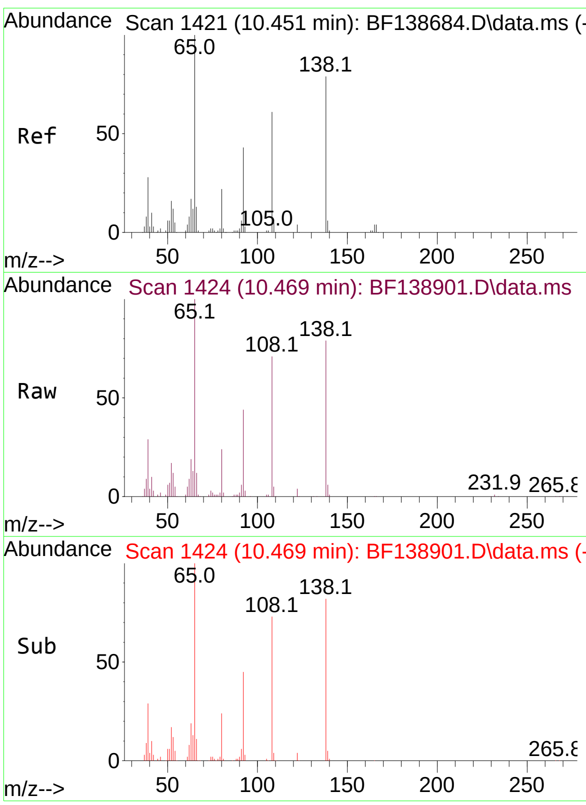


#61
4-Chlorophenyl-phenylether
Concen: 42.898 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:204 Resp: 19263

Ion	Ratio	Lower	Upper
204	100		
206	31.7	26.1	39.1
141	69.4	51.4	77.0

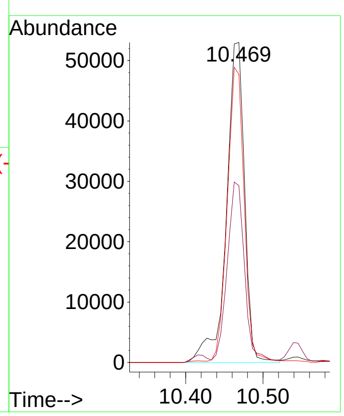




#62
4-Nitroaniline
Concen: 41.796 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.018 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:138 Resp: 86663

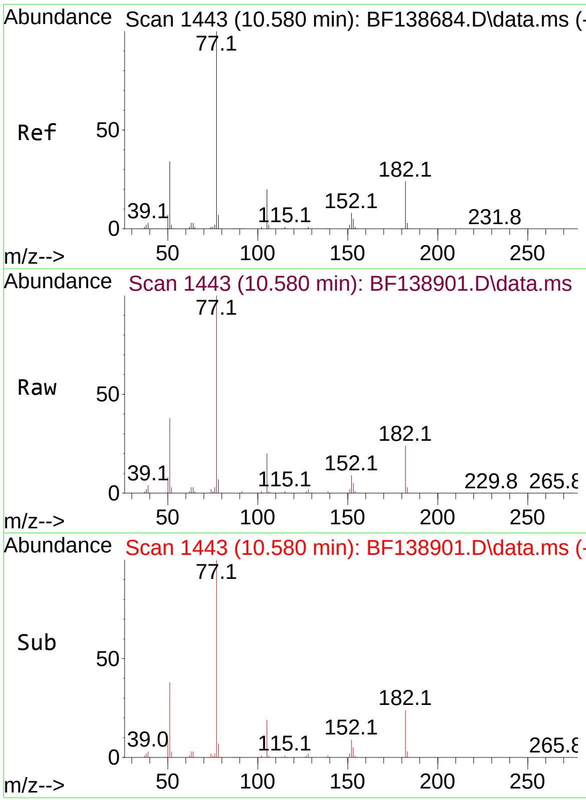
Ion	Ratio	Lower	Upper
138	100		
92	55.3	34.2	74.2
108	90.0	56.2	96.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

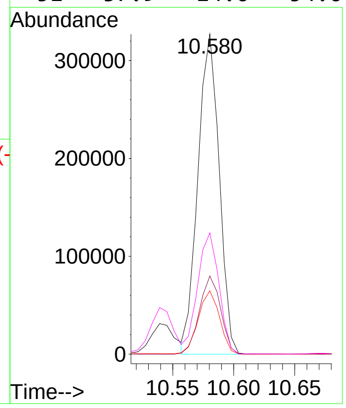
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

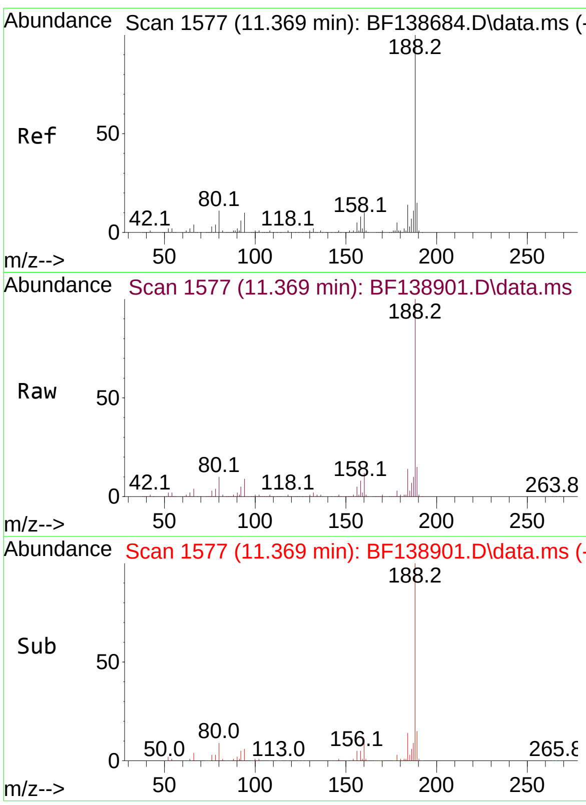


#63
Azobenzene
Concen: 40.554 ng
RT: 10.580 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 77 Resp: 39884

Ion	Ratio	Lower	Upper
77	100		
182	24.4	3.4	43.4
105	19.8	0.2	40.2
51	37.9	14.6	54.6

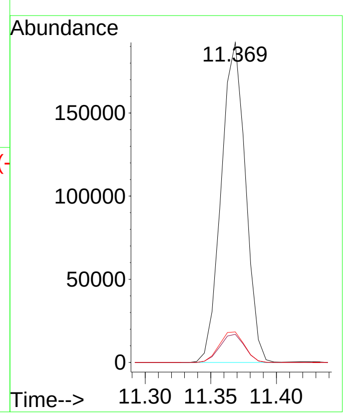




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:188 Resp: 247933

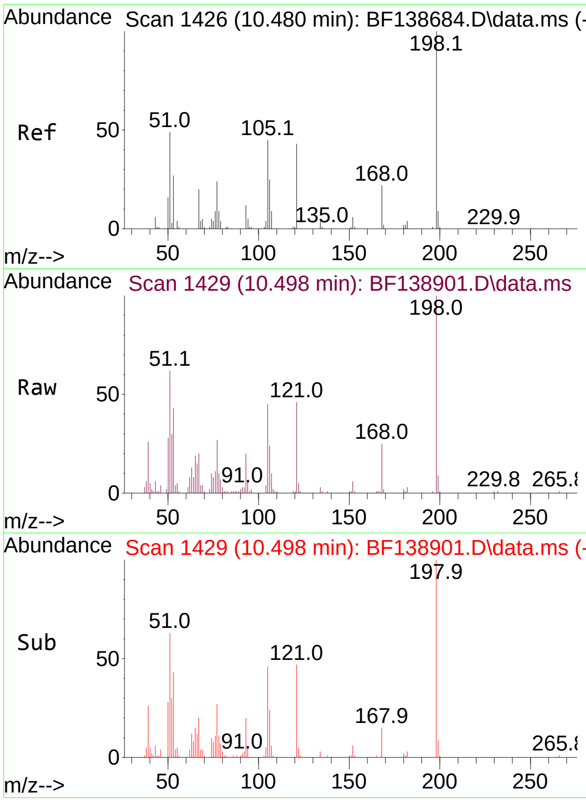
Ion	Ratio	Lower	Upper
188	100		
94	8.8	7.6	11.4
80	9.6	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

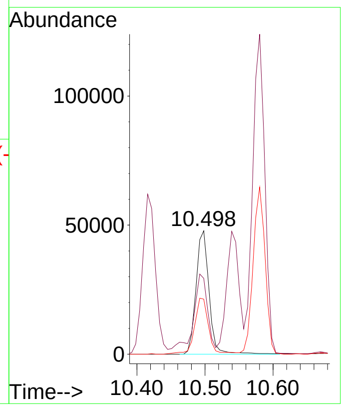
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

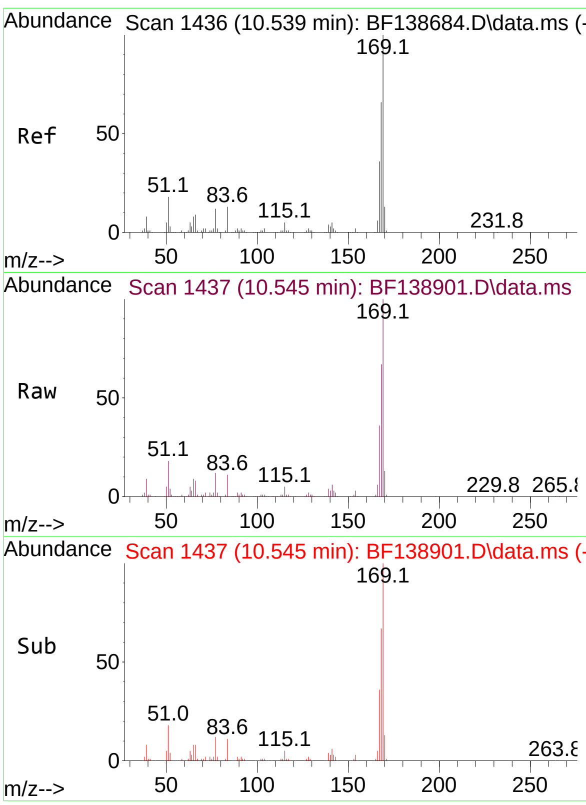


#65
4,6-Dinitro-2-methylphenol
Concen: 42.064 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.018 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:198 Resp: 6362

Ion	Ratio	Lower	Upper
198	100		
51	61.5	39.9	79.9
105	44.6	26.1	66.1

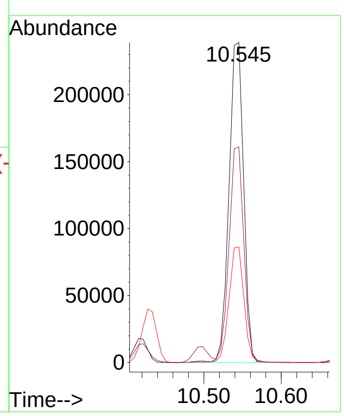




#66
n-Nitrosodiphenylamine
Concen: 40.760 ng
RT: 10.545 min Scan# 1437
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:169 Resp: 315882

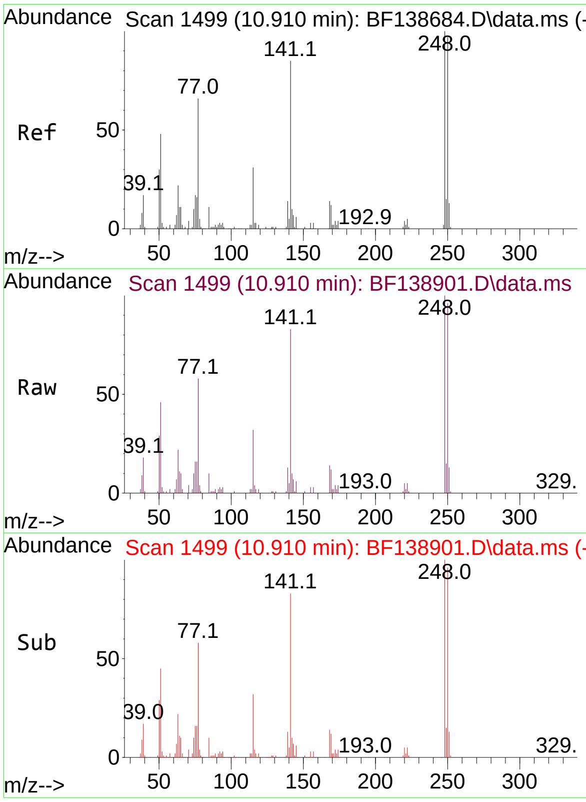
Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.0	79.6
167	36.1	29.0	43.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

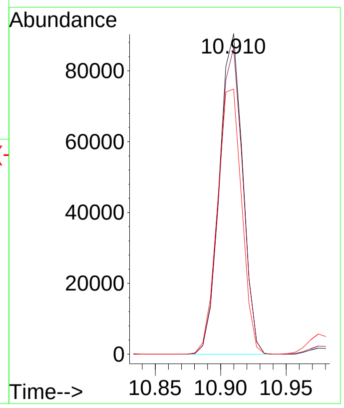
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

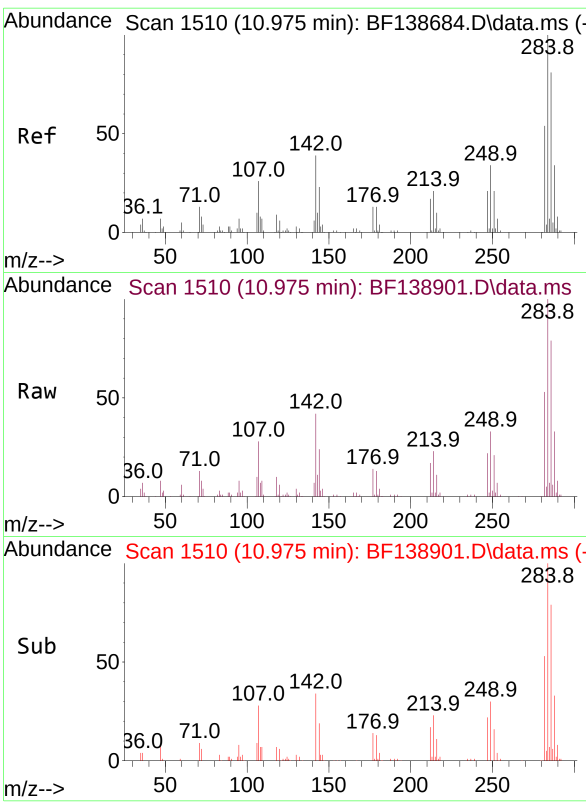


#67
4-Bromophenyl-phenylether
Concen: 41.631 ng
RT: 10.910 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:248	Resp:	11175

Ion	Ratio	Lower	Upper
248	100		
250	95.8	77.7	116.5
141	82.8	68.0	102.0

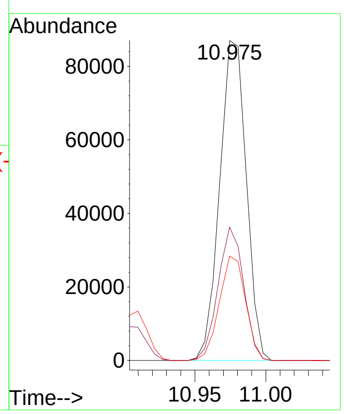


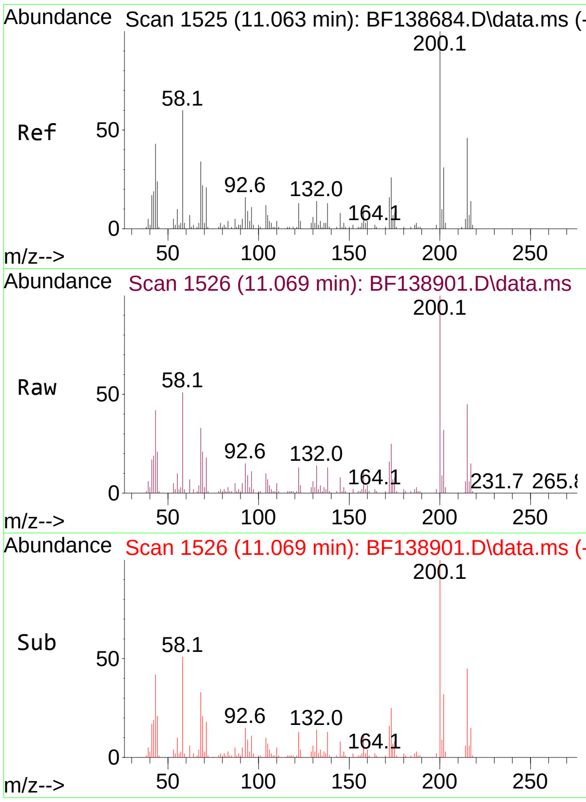


#68
Hexachlorobenzene
Concen: 41.012 ng
RT: 10.975 min Scan# 1510
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:284	Resp:	113668

Ion	Ratio	Lower	Upper
284	100		
142	41.6	31.3	46.9
249	32.6	27.2	40.8





#69
Atrazine
Concen: 36.784 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

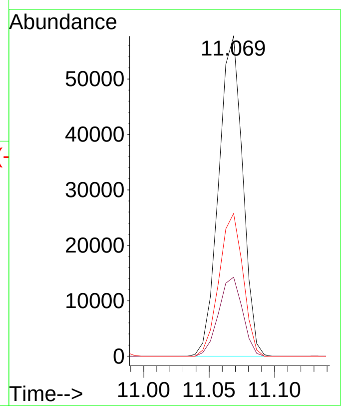
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

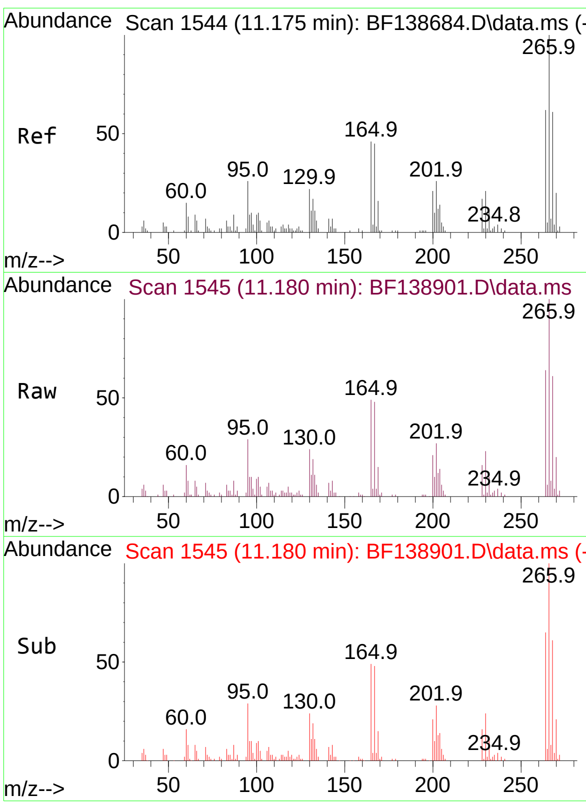
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

Tgt Ion:200 Resp: 7354

Ion	Ratio	Lower	Upper
200	100		
173	24.7	6.0	46.0
215	44.6	26.1	66.1

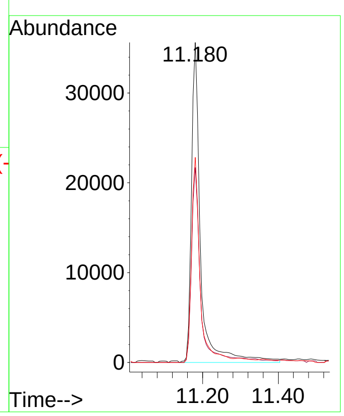




#70
Pentachlorophenol
Concen: 48.183 ng
RT: 11.180 min Scan# 1545
Delta R.T. 0.005 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:266 Resp: 60194

Ion	Ratio	Lower	Upper
266	100		
268	60.9	49.2	73.8
264	64.1	49.8	74.6

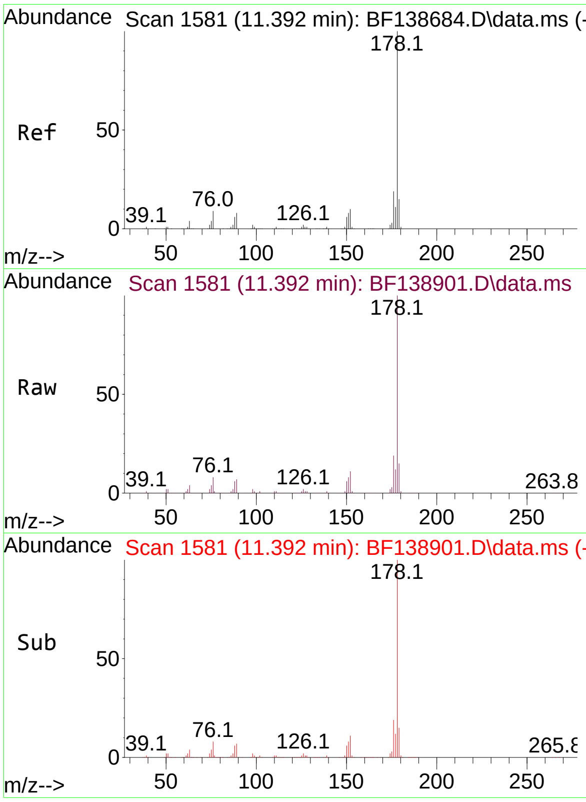


Sample Results: **BF138901.D**

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

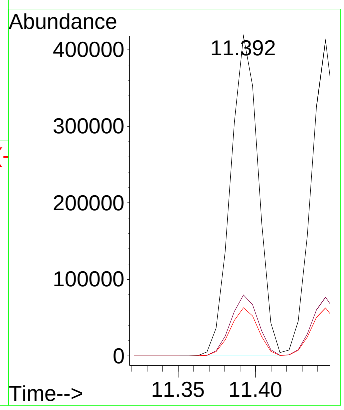
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

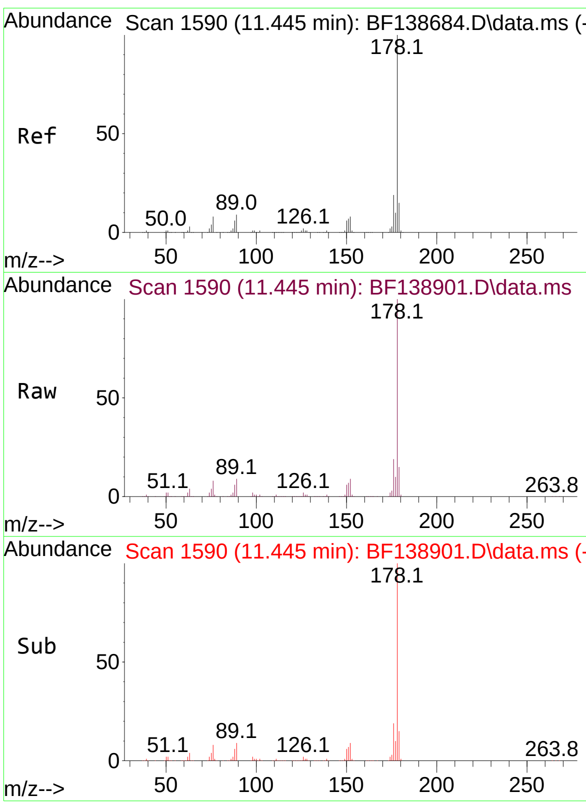


#71
Phenanthrene
Concen: 40.816 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:178 Resp: 52108

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.1	12.2	18.2

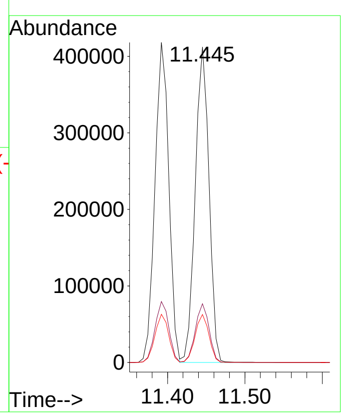




#72
Anthracene
Concen: 40.562 ng
RT: 11.445 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:178 Resp: 510139

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.2	12.4	18.6

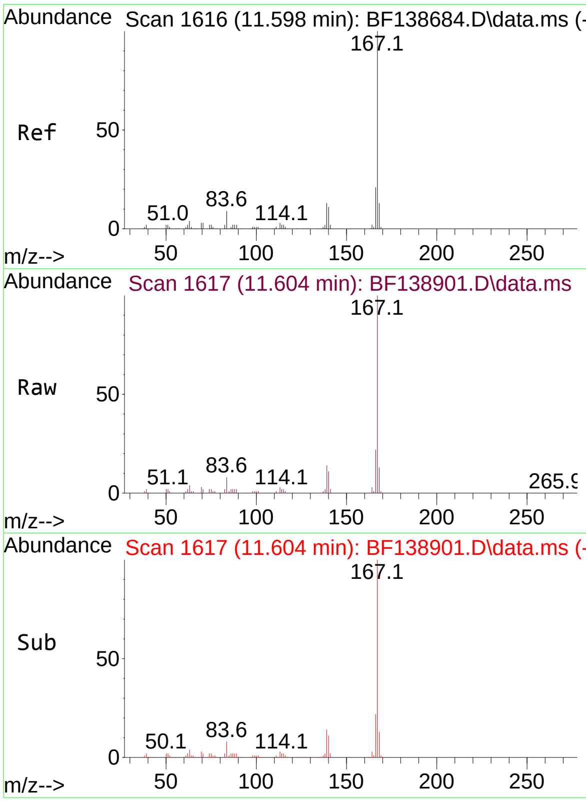


Sample Results: **BF138901.D**

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

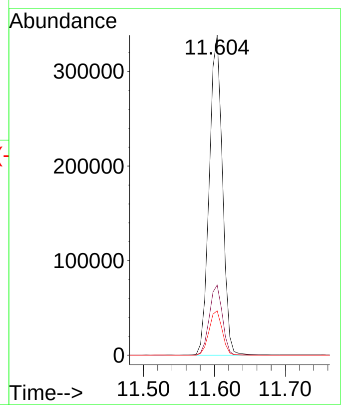
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

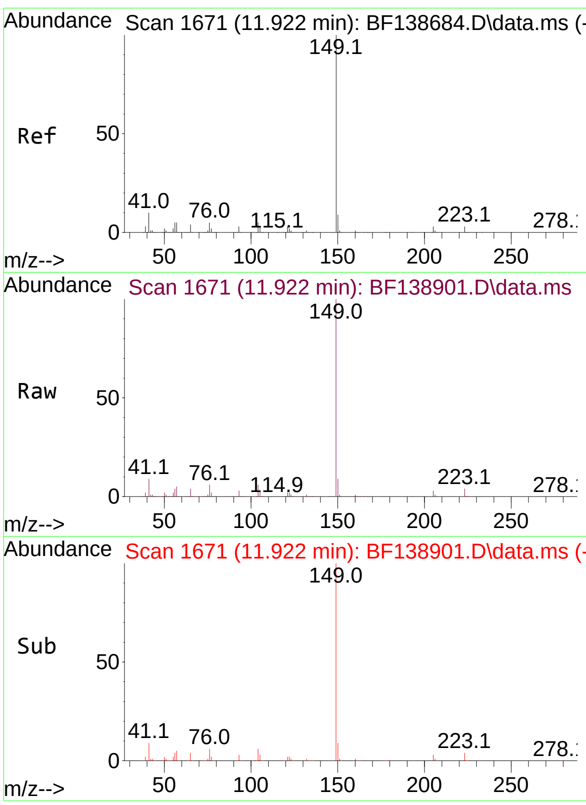


#73
Carbazole
Concen: 40.357 ng
RT: 11.604 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:167 Resp: 437899

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.2	25.8
139	13.8	10.6	16.0

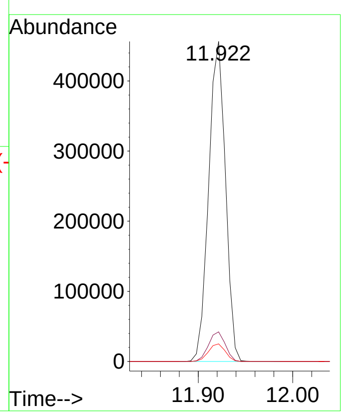


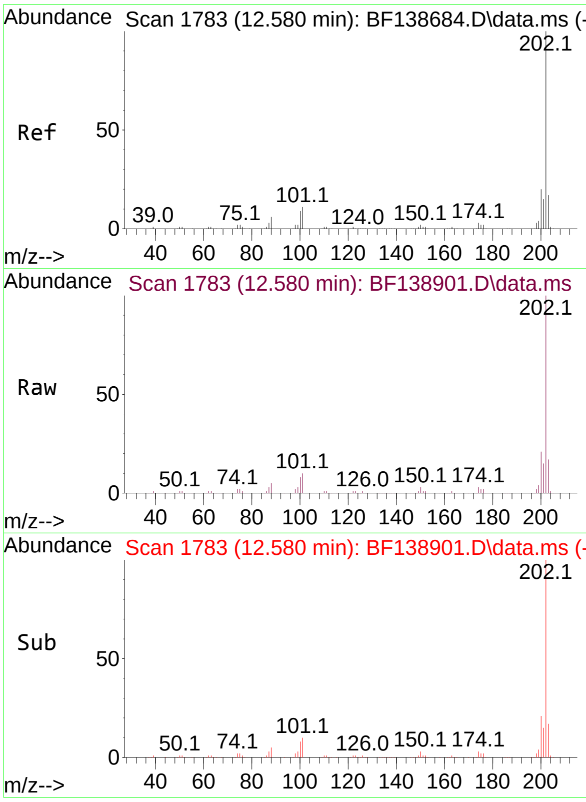


#74
Di-n-butylphthalate
Concen: 45.963 ng
RT: 11.922 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:149 Resp: 560651

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.5	4.1	6.1

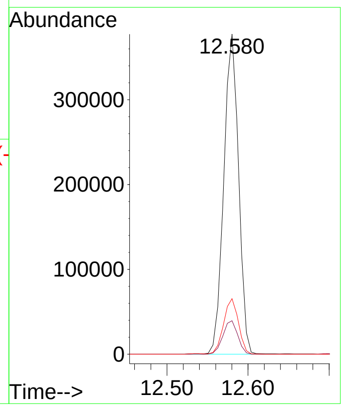




#75
Fluoranthene
Concen: 40.307 ng
RT: 12.580 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:202 Resp: 48039

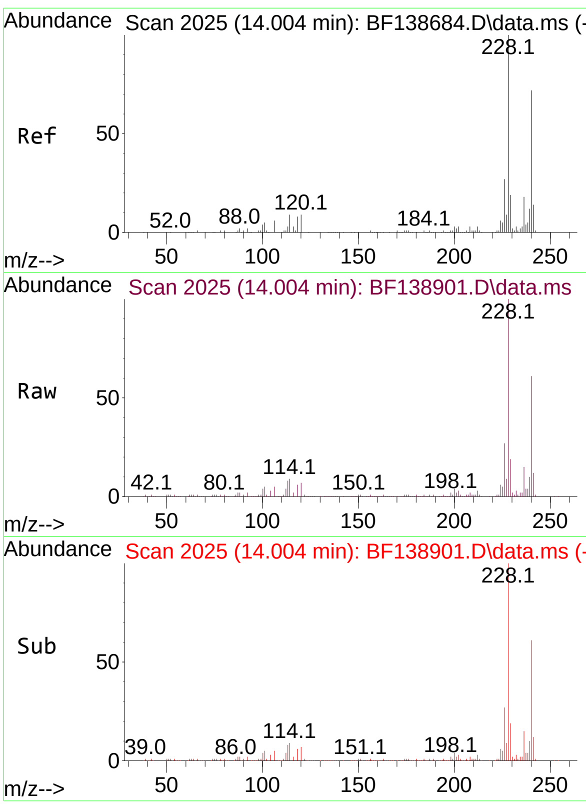
Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	31.2
203	17.3	0.0	37.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

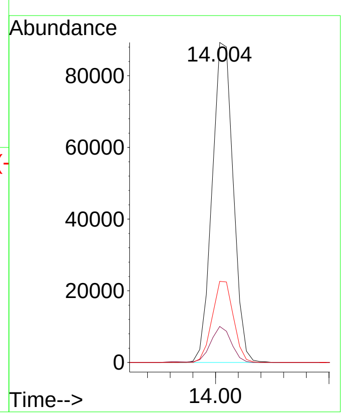
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

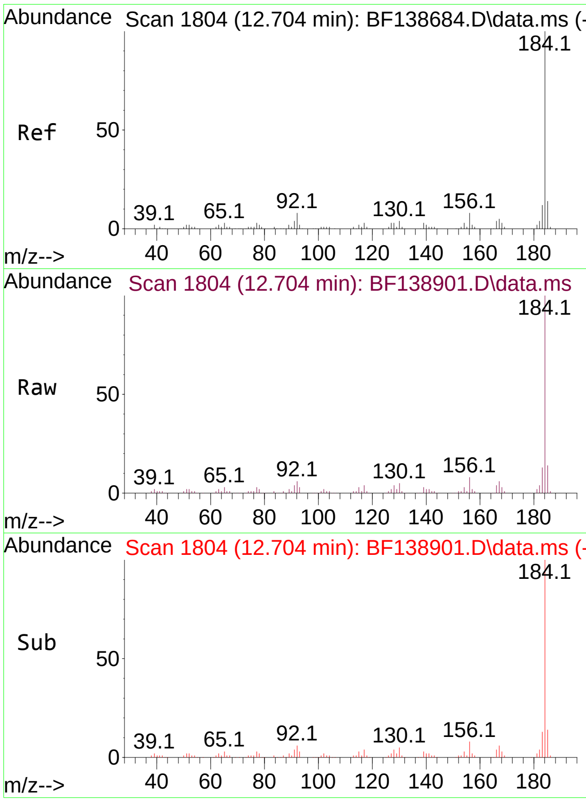


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:240 Resp: 115525

Ion	Ratio	Lower	Upper
240	100		
120	11.3	10.2	15.4
236	25.3	19.8	29.8





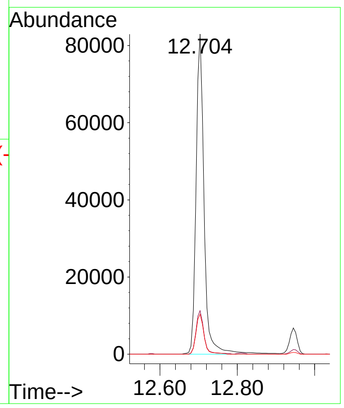
#77
Benzidine
Concen: 43.325 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

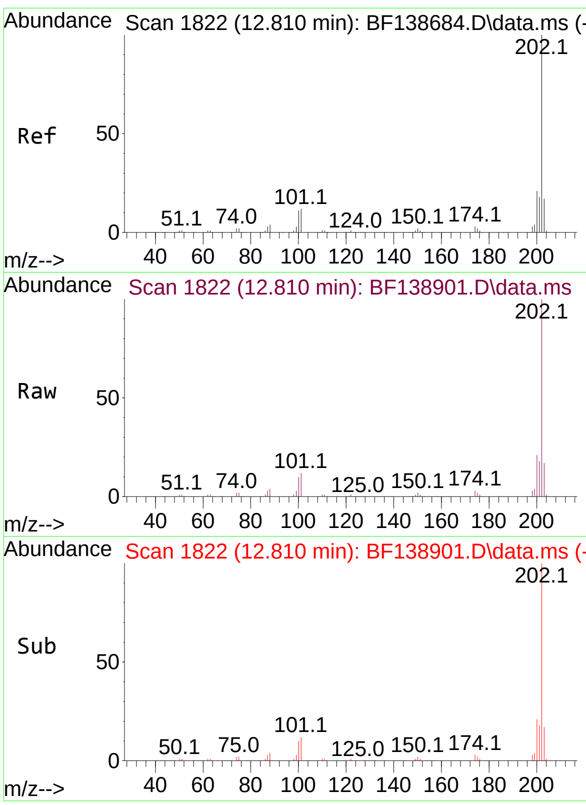
Tgt Ion:184 Resp: 11971

Ion	Ratio	Lower	Upper
184	100		
185	13.6	11.1	16.7
183	12.5	9.6	14.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

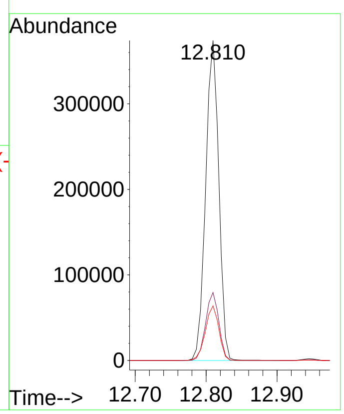




#78
Pyrene
Concen: 44.353 ng
RT: 12.810 min Scan# 1822
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:202 Resp: 482435

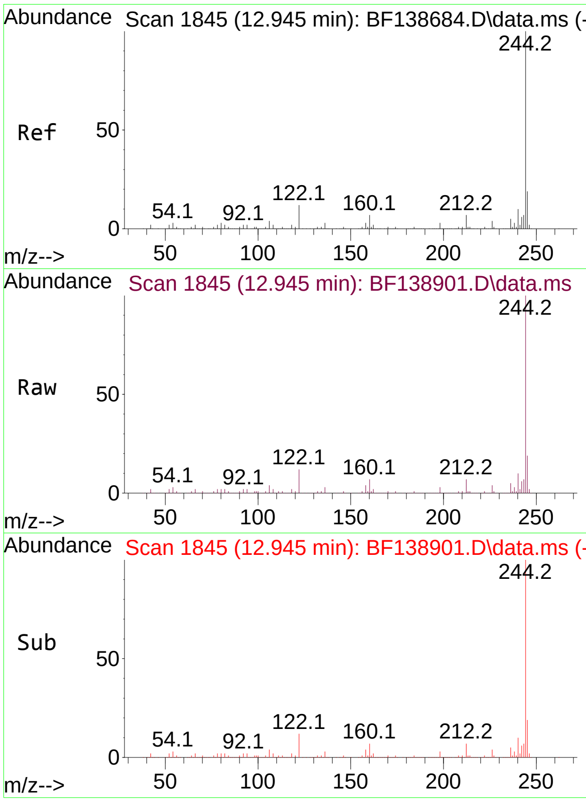
Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.1	13.8	20.6



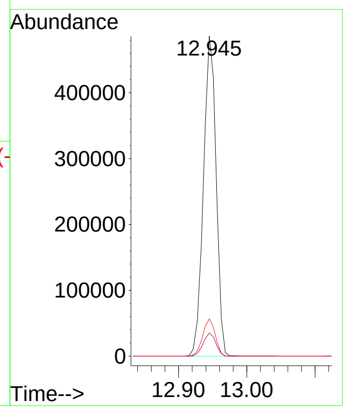
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

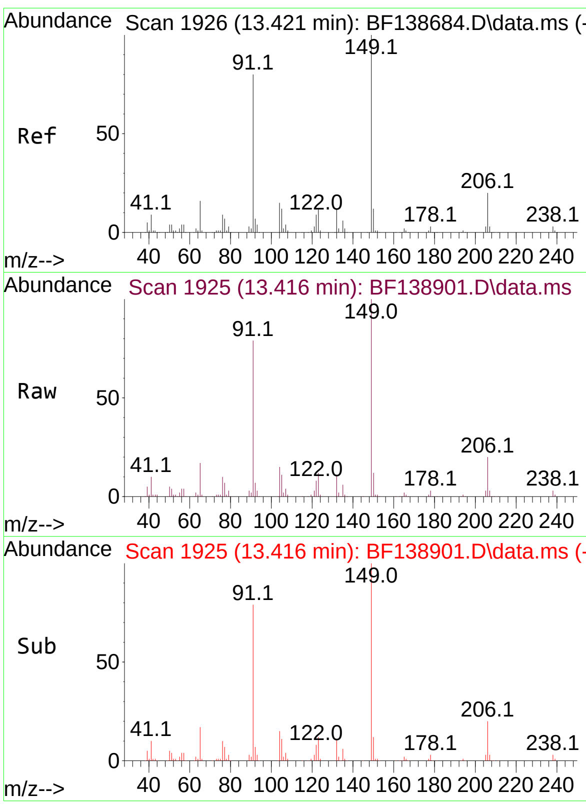
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

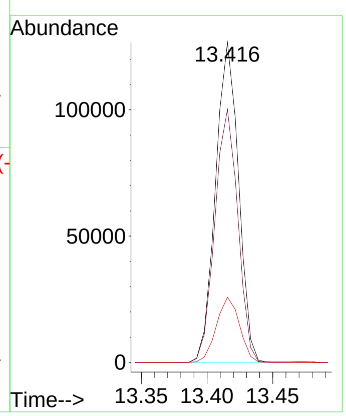


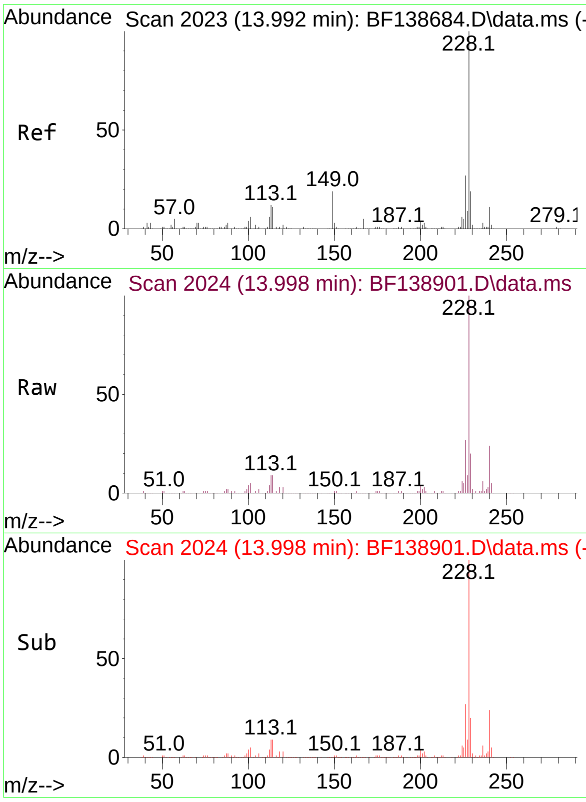

```
#79
Terphenyl-d14
Concen:   91.112 ng
RT:  12.945 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   BF138901.D
Acq: 10 Aug 2024  10:41

Tgt Ion:244 Resp:  62867
Ion  Ratio  Lower  Upper
244  100
212    7.2    5.4    8.2
122   11.6    9.6   14.4
```






```
#80
Butylbenzylphthalate
Concen:   44.312 ng
RT:  13.416 min  Scan# 1925
Delta R.T.  -0.006 min
Lab File:   BF138901.D
Acq: 10 Aug 2024  10:41

Tgt Ion:149 Resp:  154344
Ion  Ratio  Lower  Upper
149  100
 91   79.1   63.7   95.5
206   20.4   16.2   24.2
```





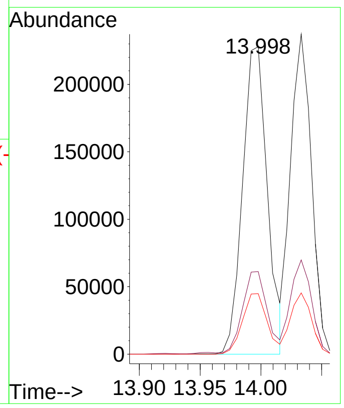
#81
Benzo(a)anthracene
Concen: 40.721 ng
RT: 13.998 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

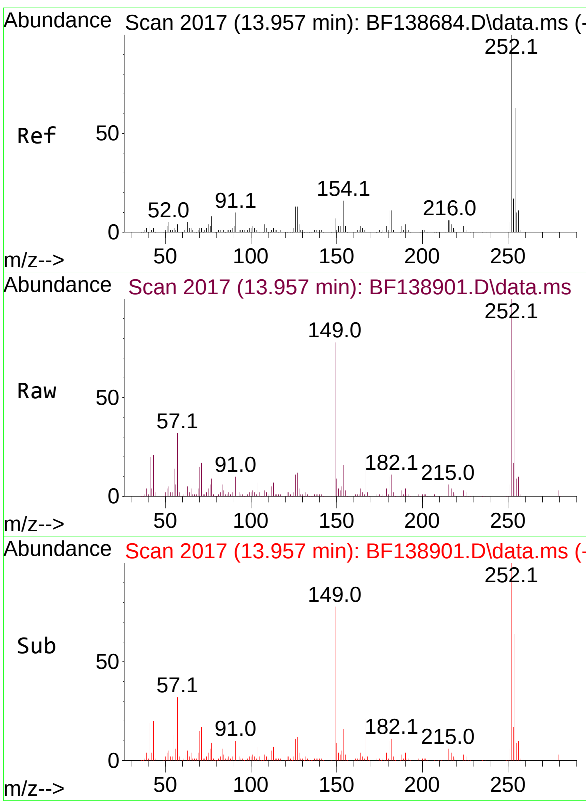
Tgt Ion:228 Resp: 32395

Ion	Ratio	Lower	Upper
228	100		
226	26.8	22.1	33.1
229	19.7	15.4	23.0

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

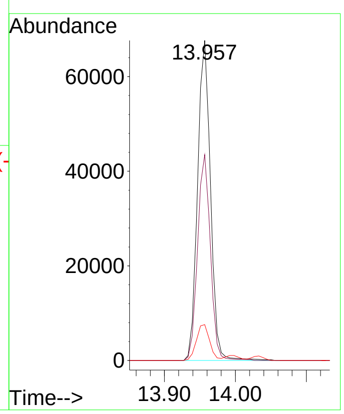


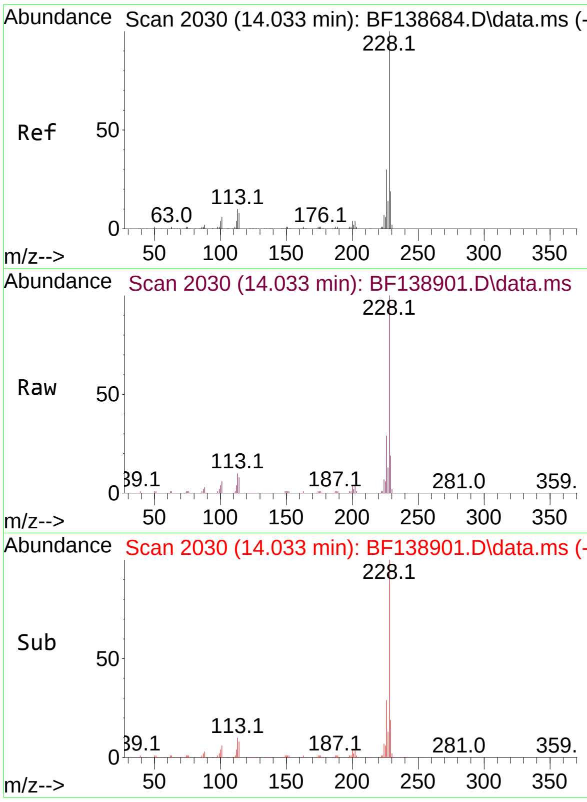


#82
3,3'-Dichlorobenzidine
Concen: 42.286 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:252 Resp: 86086

Ion	Ratio	Lower	Upper
252	100		
254	64.3	50.8	76.2
126	11.2	10.2	15.2



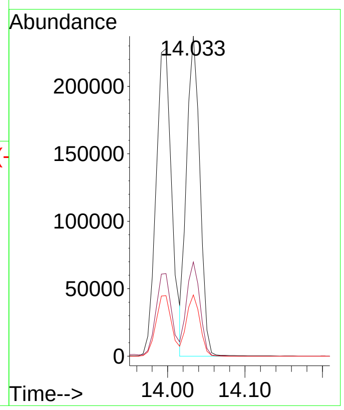


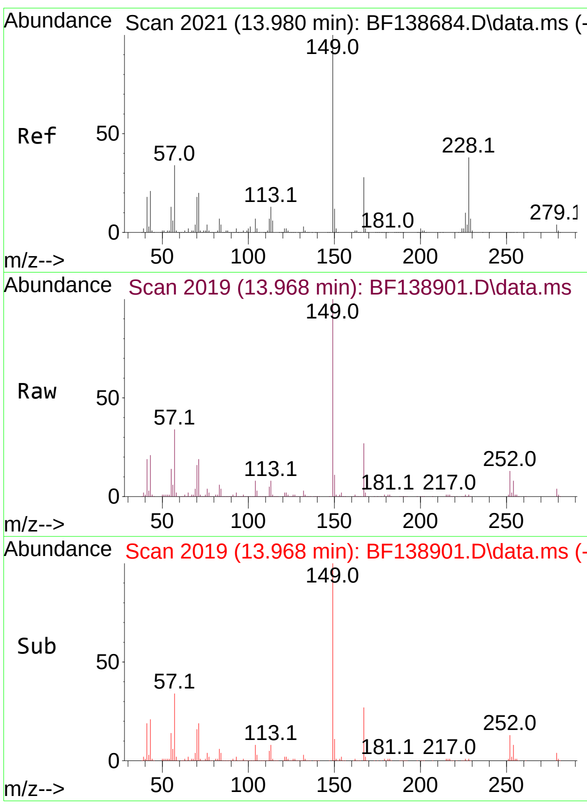

```
#83
Chrysene
Concen:   39.786 ng
RT:  14.033 min  Scan# 2(
Delta R.T.   -0.000 min
Lab File:   BF138901.D
Acq: 10 Aug 2024   10:41

Tgt Ion:228 Resp:  28555
Ion  Ratio  Lower  Upper
228  100
226   29.4   23.7   35.5
229   19.2   15.0   22.6
```

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

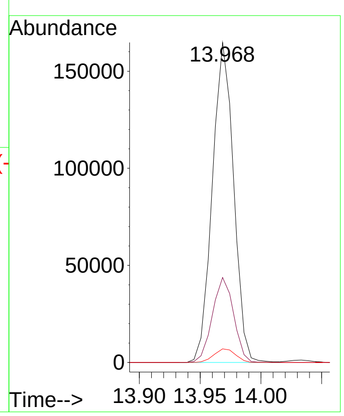
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay   08/12/2024
Supervised By :mohammad ahmed   08/13/2024

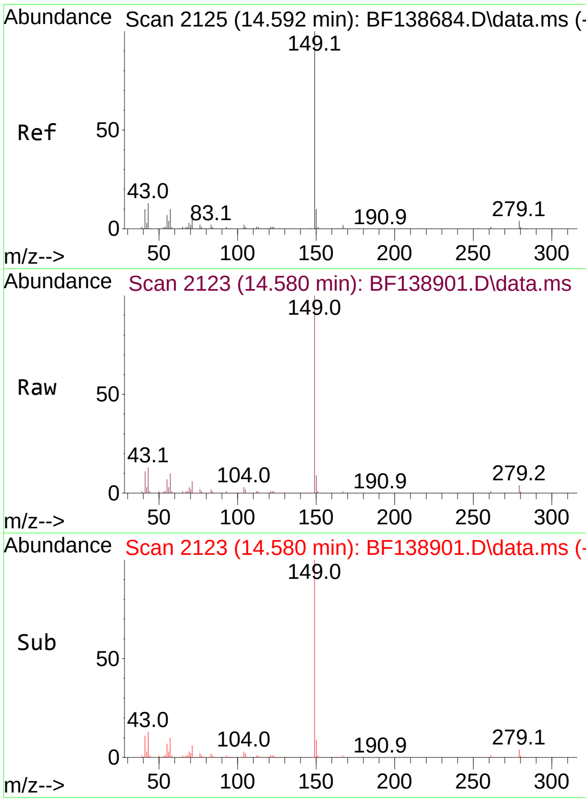





```
#84
Bis(2-ethylhexyl)phthalate
Concen:   39.440 ng
RT:  13.968 min  Scan# 2019
Delta R.T.   -0.012 min
Lab File:   BF138901.D
Acq: 10 Aug 2024   10:41

Tgt Ion:149 Resp:  201163
Ion  Ratio  Lower  Upper
149  100
167   26.6   22.2   33.4
279    4.2    3.4    5.0
```



Sample Results: **BF138901.D**



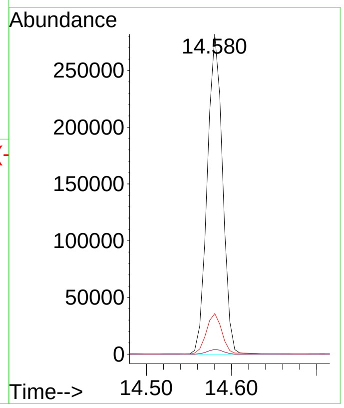
#85
Di-n-octyl phthalate
Concen: 37.255 ng
RT: 14.580 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

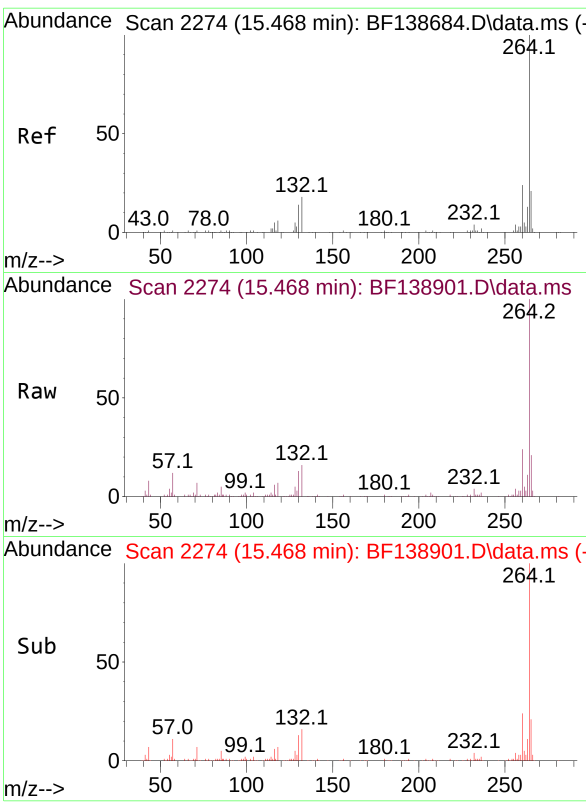
Tgt Ion:149 Resp: 35156

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.4	2.0
43	12.9	10.4	15.6

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

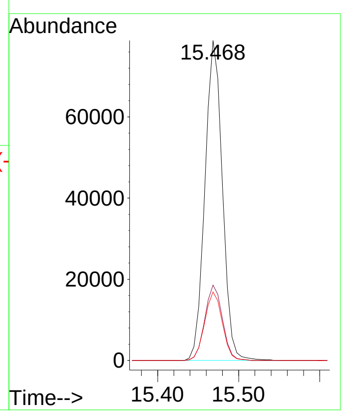




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:264 Resp: 117822

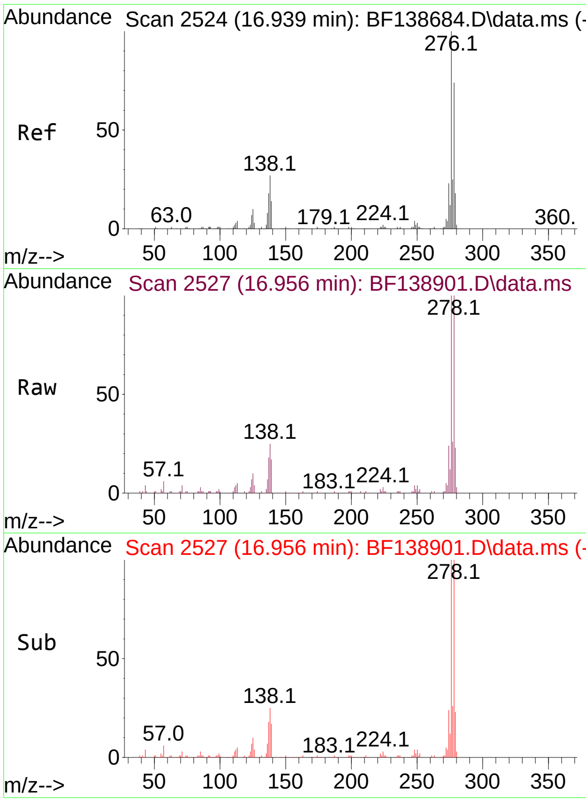
Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.0	28.6
265	21.4	17.0	25.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

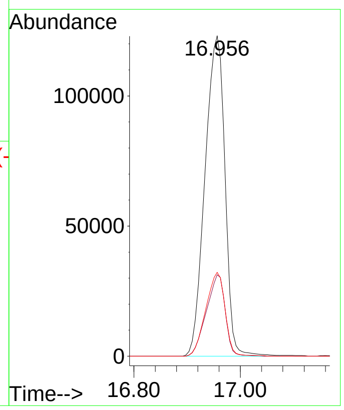
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

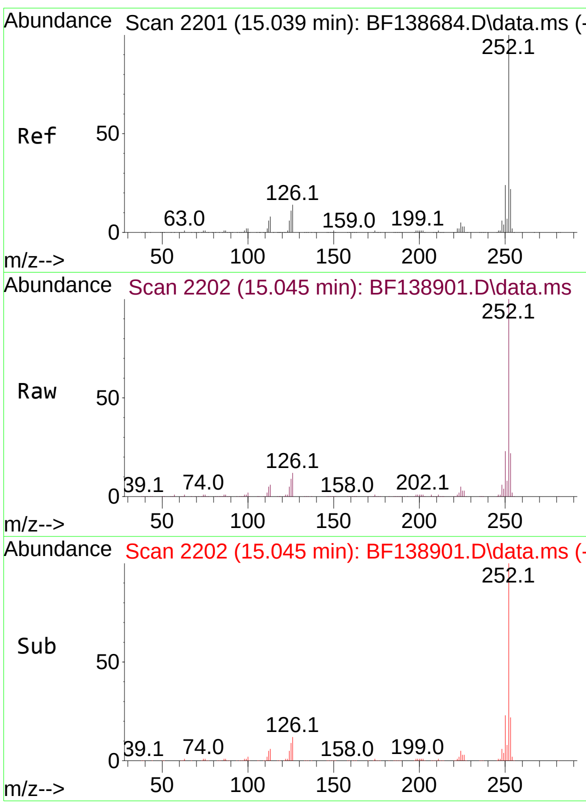


#87
Indeno(1,2,3-cd)pyrene
Concen: 38.033 ng
RT: 16.956 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:276 Resp: 32113

Ion	Ratio	Lower	Upper
276	100		
138	24.0	21.8	32.8
277	25.2	20.6	30.8

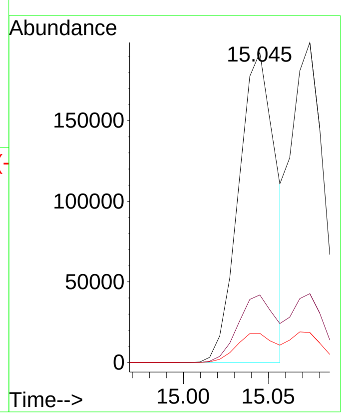




#88
Benzo(b)fluoranthene
Concen: 39.582 ng
RT: 15.045 min Scan# 2202
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:252 Resp: 289097

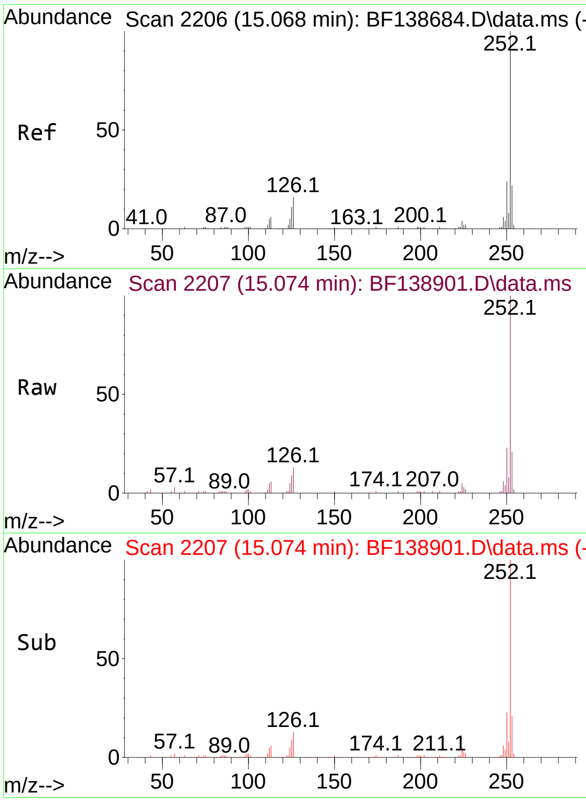
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	9.4	8.9	13.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

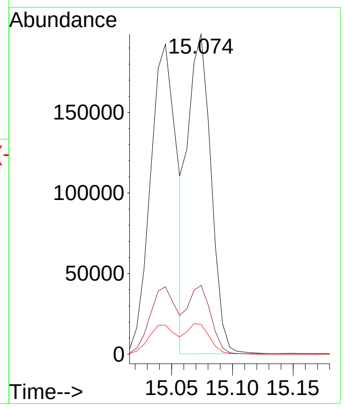
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

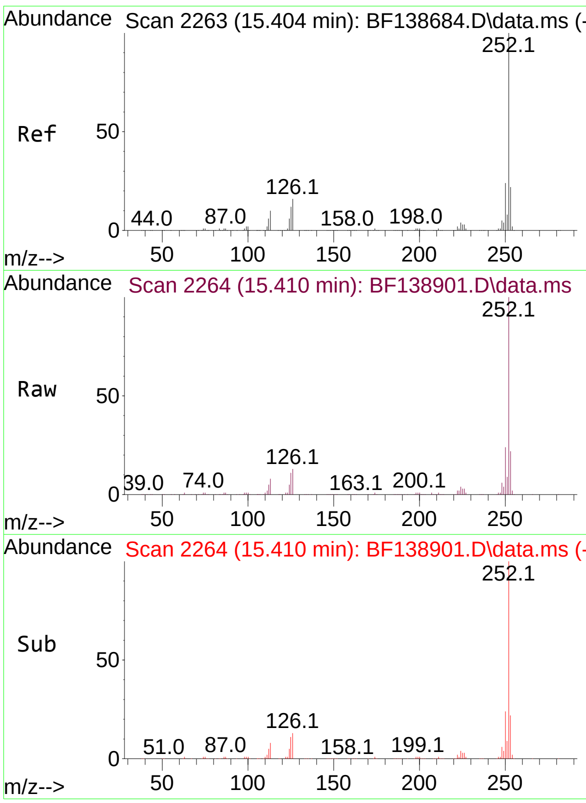


#89
Benzo(k)fluoranthene
Concen: 41.500 ng
RT: 15.074 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:252 Resp: 26243

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.0
125	9.4	8.6	13.0

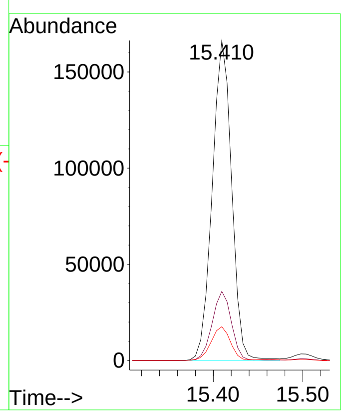


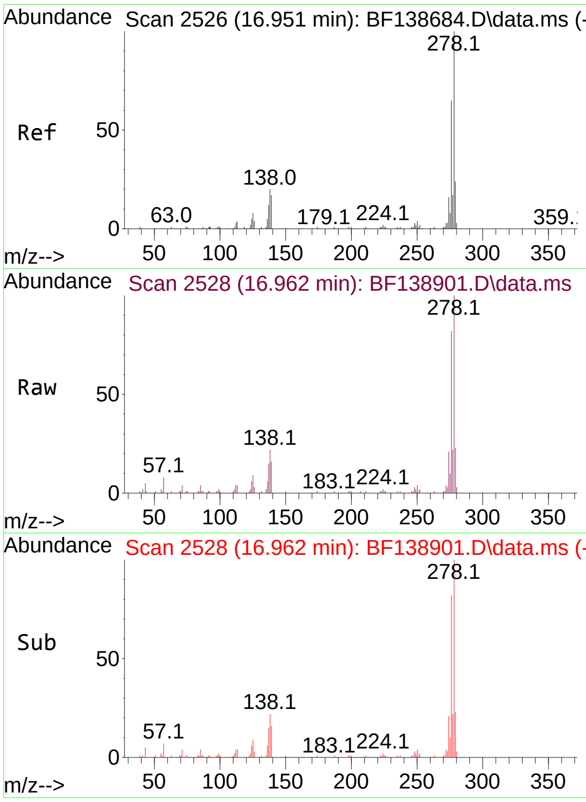


#90
Benzo(a)pyrene
Concen: 40.704 ng
RT: 15.410 min Scan# 2264
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:252 Resp: 250070

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9
125	10.6	9.5	14.3





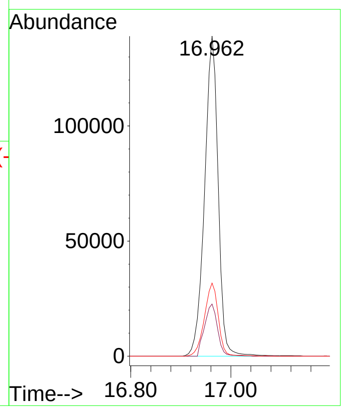
#91
Dibenzo(a,h)anthracene
Concen: 37.829 ng
RT: 16.962 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

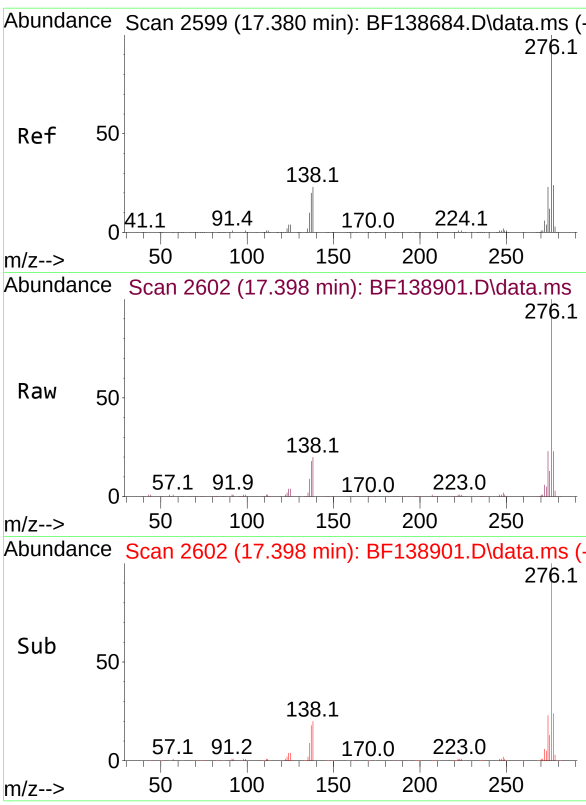
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 26219

Ion	Ratio	Lower	Upper
278	100		
139	16.3	14.0	21.0
279	22.8	19.0	28.4

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

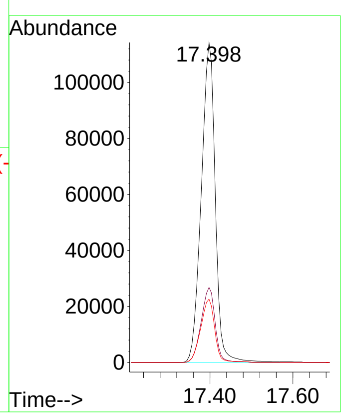




#92
Benzo(g,h,i)perylene
Concen: 37.138 ng
RT: 17.398 min Scan# 2602
Delta R.T. 0.018 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:276 Resp: 267113

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.0	28.4
138	19.8	18.5	27.7



Sample Results: **BF138901.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	87	0.00
2		1,4-Dioxane	0.567	0.483	14.8	73	0.02
3		Pyridine	1.374	1.245	9.4	79	0.02
4		n-Nitrosodimethylamine	0.818	0.889	-8.7	95	0.05
5	S	2-Fluorophenol	1.296	1.267	2.2	87	0.00
6		Aniline	1.551	1.536	1.0	87	0.00
7	S	Phenol-d6	1.740	1.736	0.2	90	0.00
8		2-Chlorophenol	1.363	1.389	-1.9	91	0.00
9		Benzaldehyde	1.043	0.916	12.2	88	0.00
10	C	Phenol	1.832	1.820	0.7	89	0.01
11		bis(2-Chloroethyl)ether	1.409	1.327	5.8	85	0.00
12		1,3-Dichlorobenzene	1.526	1.520	0.4	90	0.00
13	C	1,4-Dichlorobenzene	1.540	1.554	-0.9	91	0.00
14		1,2-Dichlorobenzene	1.439	1.491	-3.6	92	0.00
15		Benzyl Alcohol	1.254	1.356	-8.1	97	0.00
16		2,2'-oxybis(1-Chloropropane	2.426	2.186	9.9	81	0.00
17		2-Methylphenol	1.126	1.130	-0.4	89	0.00
18		Hexachloroethane	0.580	0.601	-3.6	92	0.00
19	P	n-Nitroso-di-n-propylamine	1.051	1.110	-5.6	98	0.00
20		3+4-Methylphenols	1.444	1.532	-6.1	98	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	92	0.00
22		Acetophenone	0.490	0.511	-4.3	97	0.00
23	S	Nitrobenzene-d5	0.409	0.425	-3.9	96	0.00
24		Nitrobenzene	0.416	0.425	-2.2	94	0.00
25		Isophorone	0.699	0.702	-0.4	95	0.00
26	C	2-Nitrophenol	0.179	0.184	-2.8	92	0.00
27		2,4-Dimethylphenol	0.214	0.216	-0.9	93	0.00
28		bis(2-Chloroethoxy)methane	0.425	0.416	2.1	91	0.00
29	C	2,4-Dichlorophenol	0.275	0.287	-4.4	96	0.00
30		1,2,4-Trichlorobenzene	0.318	0.328	-3.1	95	0.00
31		Naphthalene	1.053	1.059	-0.6	93	0.00
32		Benzoic acid	0.168	0.143	14.9	79	0.05
33		4-Chloroaniline	0.353	0.327	7.4	87	0.00
34	C	Hexachlorobutadiene	0.192	0.208	-8.3	101	0.00
35		Caprolactam	0.082	0.088	-7.3	104	0.03
36	C	4-Chloro-3-methylphenol	0.315	0.337	-7.0	101	0.01
37		2-Methylnaphthalene	0.665	0.691	-3.9	98	0.00
38		1-Methylnaphthalene	0.652	0.672	-3.1	97	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
40		1,2,4,5-Tetrachlorobenzene	0.556	0.570	-2.5	103	0.00
41	P	Hexachlorocyclopentadiene	0.120	0.164	-36.7#	128	0.00
42	S	2,4,6-Tribromophenol	0.164	0.177	-7.9	111	0.00
43	C	2,4,6-Trichlorophenol	0.339	0.337	0.6	100	0.00
44		2,4,5-Trichlorophenol	0.370	0.377	-1.9	102	0.01
45	S	2-Fluorobiphenyl	1.331	1.376	-3.4	105	0.00
46		1,1'-Biphenyl	1.566	1.559	0.4	101	0.00
47		2-Chloronaphthalene	1.165	1.167	-0.2	101	0.00

Sample Results: **BF138901.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument : BNA_F
LabSampleId : SSTDCCC040

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	0.395	0.408	-3.3	104	0.00
49	Acenaphthylene	1.652	1.642	0.6	100	0.00
50	Dimethylphthalate	1.279	1.355	-5.9	110	0.00
51	2,6-Dinitrotoluene	0.289	0.309	-6.9	107	0.00
52 C	Acenaphthene	1.111	1.104	0.6	102	0.00
53	3-Nitroaniline	0.298	0.298	0.0	103	0.00
54 P	2,4-Dinitrophenol	0.133	0.153	-15.0	120	0.01
55	Dibenzofuran	1.568	1.590	-1.4	104	0.00
56 P	4-Nitrophenol	0.179	0.193	-7.8	110	0.02
57	2,4-Dinitrotoluene	0.368	0.405	-10.1	111	0.01
58	Fluorene	1.249	1.309	-4.8	108	0.00
59	2,3,4,6-Tetrachlorophenol	0.283	0.291	-2.8	106	0.00
60	Diethylphthalate	1.213	1.342	-10.6	116	0.00
61	4-Chlorophenyl-phenylether	0.614	0.659	-7.3	111	0.00
62	4-Nitroaniline	0.284	0.296	-4.2	108	0.02
63	Azobenzene	1.345	1.363	-1.3	104	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00
65	4,6-Dinitro-2-methylphenol	0.122	0.128	-4.9	112	0.02
66 c	n-Nitrosodiphenylamine	0.625	0.637	-1.9	110	0.00
67	4-Bromophenyl-phenylether	0.217	0.225	-3.7	113	0.00
68	Hexachlorobenzene	0.224	0.229	-2.2	114	0.00
69	Atrazine	0.161	0.148	8.1	99	0.00
70 C	Pentachlorophenol	0.101	0.121	-19.8	130	0.00
71	Phenanthrene	1.030	1.051	-2.0	112	0.00
72	Anthracene	1.015	1.029	-1.4	112	0.00
73	Carbazole	0.875	0.883	-0.9	111	0.00
74	Di-n-butylphthalate	0.984	1.131	-14.9	124	0.00
75 C	Fluoranthene	0.961	0.969	-0.8	109	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	92	0.00
77	Benzidine	0.478	0.518	-8.4	89	0.00
78	Pyrene	1.883	2.088	-10.9	109	0.00
79 S	Terphenyl-d14	1.195	1.360	-13.8	113	0.00
80	Butylbenzylphthalate	0.603	0.668	-10.8	98	0.00
81	Benzo(a)anthracene	1.377	1.402	-1.8	92	0.00
82	3,3'-Dichlorobenzidine	0.352	0.373	-6.0	95	0.00
83	Chrysene	1.243	1.236	0.6	93	0.00
84	Bis(2-ethylhexyl)phthalate	0.883	0.871	1.4	84	-0.01
85 c	Di-n-octyl phthalate	1.634	1.522	6.9	80	-0.01
86 I	Perylene-d12	1.000	1.000	0.0	78	0.00
87	Indeno(1,2,3-cd)pyrene	1.433	1.363	4.9	76	0.02
88	Benzo(b)fluoranthene	1.240	1.227	1.0	78	0.00
89	Benzo(k)fluoranthene	1.073	1.114	-3.8	86	0.00
90 C	Benzo(a)pyrene	1.043	1.061	-1.7	81	0.00
91	Dibenzo(a,h)anthracene	1.177	1.113	5.4	76	0.01
92	Benzo(g,h,i)perylene	1.221	1.134	7.1	74	0.02

Sample Results: **BF138901.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On    : 10 Aug 2024  10:41
Operator  : RC/JU
Sample    : SSTDCCC040
Misc      :
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration
```

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

```
Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 150%

       Compound                      AvgRF   CCRF      %Dev Area% Dev(min)
-------------------------------------------------------------------------

  (#) = Out of Range               SPCC's out = 0  CCC's out = 0
```

Sample Results: **BF138901.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	87	0.00
2		1,4-Dioxane	40.000	34.071	14.8	73	0.02
3		Pyridine	40.000	36.250	9.4	79	0.02
4		n-Nitrosodimethylamine	40.000	43.453	-8.6	95	0.05
5	S	2-Fluorophenol	80.000	78.231	2.2	87	0.00
6		Aniline	40.000	39.613	1.0	87	0.00
7	S	Phenol-d6	80.000	79.839	0.2	90	0.00
8		2-Chlorophenol	40.000	40.753	-1.9	91	0.00
9		Benzaldehyde	40.000	35.120	12.2	88	0.00
10	C	Phenol	40.000	39.743	0.6	89	0.01
11		bis(2-Chloroethyl)ether	40.000	37.658	5.9	85	0.00
12		1,3-Dichlorobenzene	40.000	39.842	0.4	90	0.00
13	C	1,4-Dichlorobenzene	40.000	40.356	-0.9	91	0.00
14		1,2-Dichlorobenzene	40.000	41.442	-3.6	92	0.00
15		Benzyl Alcohol	40.000	43.260	-8.1	97	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	36.049	9.9	81	0.00
17		2-Methylphenol	40.000	40.163	-0.4	89	0.00
18		Hexachloroethane	40.000	41.486	-3.7	92	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	42.274	-5.7	98	0.00
20		3+4-Methylphenols	40.000	42.440	-6.1	98	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	92	0.00
22		Acetophenone	40.000	41.744	-4.4	97	0.00
23	S	Nitrobenzene-d5	80.000	83.191	-4.0	96	0.00
24		Nitrobenzene	40.000	40.822	-2.1	94	0.00
25		Isophorone	40.000	40.211	-0.5	95	0.00
26	C	2-Nitrophenol	40.000	41.134	-2.8	92	0.00
27		2,4-Dimethylphenol	40.000	40.261	-0.7	93	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.163	2.1	91	0.00
29	C	2,4-Dichlorophenol	40.000	41.631	-4.1	96	0.00
30		1,2,4-Trichlorobenzene	40.000	41.335	-3.3	95	0.00
31		Naphthalene	40.000	40.229	-0.6	93	0.00
32		Benzoic acid	40.000	33.892	15.3	79	0.05
33		4-Chloroaniline	40.000	36.967	7.6	87	0.00
34	C	Hexachlorobutadiene	40.000	43.255	-8.1	101	0.00
35		Caprolactam	40.000	42.813	-7.0	104	0.03
36	C	4-Chloro-3-methylphenol	40.000	42.827	-7.1	101	0.01
37		2-Methylnaphthalene	40.000	41.582	-4.0	98	0.00
38		1-Methylnaphthalene	40.000	41.263	-3.2	97	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	41.018	-2.5	103	0.00
41	P	Hexachlorocyclopentadiene	40.000	47.645	-19.1	128	0.00
42	S	2,4,6-Tribromophenol	80.000	86.555	-8.2	111	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.746	0.6	100	0.00
44		2,4,5-Trichlorophenol	40.000	40.677	-1.7	102	0.01
45	S	2-Fluorobiphenyl	80.000	82.684	-3.4	105	0.00
46		1,1'-Biphenyl	40.000	39.816	0.5	101	0.00
47		2-Chloronaphthalene	40.000	40.080	-0.2	101	0.00

Sample Results: **BF138901.D**

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	41.277	-3.2	104	0.00
49	Acenaphthylene	40.000	39.744	0.6	100	0.00
50	Dimethylphthalate	40.000	42.377	-5.9	110	0.00
51	2,6-Dinitrotoluene	40.000	42.834	-7.1	107	0.00
52 C	Acenaphthene	40.000	39.769	0.6	102	0.00
53	3-Nitroaniline	40.000	39.908	0.2	103	0.00
54 P	2,4-Dinitrophenol	40.000	46.071	-15.2	120	0.01
55	Dibenzofuran	40.000	40.561	-1.4	104	0.00
56 P	4-Nitrophenol	40.000	43.021	-7.6	110	0.02
57	2,4-Dinitrotoluene	40.000	44.035	-10.1	111	0.01
58	Fluorene	40.000	41.948	-4.9	108	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	41.069	-2.7	106	0.00
60	Diethylphthalate	40.000	44.254	-10.6	116	0.00
61	4-Chlorophenyl-phenylether	40.000	42.898	-7.2	111	0.00
62	4-Nitroaniline	40.000	41.796	-4.5	108	0.02
63	Azobenzene	40.000	40.554	-1.4	104	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	109	0.00
65	4,6-Dinitro-2-methylphenol	40.000	42.064	-5.2	112	0.02
66 c	n-Nitrosodiphenylamine	40.000	40.760	-1.9	110	0.00
67	4-Bromophenyl-phenylether	40.000	41.631	-4.1	113	0.00
68	Hexachlorobenzene	40.000	41.012	-2.5	114	0.00
69	Atrazine	40.000	36.784	8.0	99	0.00
70 C	Pentachlorophenol	40.000	48.183	-20.5#	130	0.00
71	Phenanthrene	40.000	40.816	-2.0	112	0.00
72	Anthracene	40.000	40.562	-1.4	112	0.00
73	Carbazole	40.000	40.357	-0.9	111	0.00
74	Di-n-butylphthalate	40.000	45.963	-14.9	124	0.00
75 C	Fluoranthene	40.000	40.307	-0.8	109	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	92	0.00
77	Benzidine	40.000	43.325	-8.3	89	0.00
78	Pyrene	40.000	44.353	-10.9	109	0.00
79 S	Terphenyl-d14	80.000	91.112	-13.9	113	0.00
80	Butylbenzylphthalate	40.000	44.312	-10.8	98	0.00
81	Benzo(a)anthracene	40.000	40.721	-1.8	92	0.00
82	3,3'-Dichlorobenzidine	40.000	42.286	-5.7	95	0.00
83	Chrysene	40.000	39.786	0.5	93	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	39.440	1.4	84	-0.01
85 c	Di-n-octyl phthalate	40.000	37.255	6.9	80	-0.01
86 I	Perylene-d12	20.000	20.000	0.0	78	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	38.033	4.9	76	0.02
88	Benzo(b)fluoranthene	40.000	39.582	1.0	78	0.00
89	Benzo(k)fluoranthene	40.000	41.500	-3.8	86	0.00
90 C	Benzo(a)pyrene	40.000	40.704	-1.8	81	0.00
91	Dibenzo(a,h)anthracene	40.000	37.829	5.4	76	0.01
92	Benzo(g,h,i)perylene	40.000	37.138	7.2	74	0.02

Sample Results: **BF138901.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On    : 10 Aug 2024  10:41
Operator  : RC/JU
Sample    : SSTDCCC040
Misc      :
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration
```

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

```
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: JACO05

Lab Code: CHEM Case No.: P3467 SAS No.: P3467 SDG No.: P3467

Instrument ID: BNA_F Calibration Date/Time: 08/14/2024 12:03

Lab File ID: BF138988.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.374	1.276		-7.1	
2-Fluorophenol	1.296	1.279		-1.3	
Benzaldehyde	1.043	0.855		-18.0	
Phenol-d6	1.740	1.703		-2.1	
2-Methylphenol	1.126	1.081		-4.0	
Acetophenone	0.490	0.526		7.3	
3+4-Methylphenols	1.444	1.458		1.0	
Nitrobenzene-d5	0.409	0.430		5.1	
Nitrobenzene	0.416	0.434		4.3	
2,4-Dichlorophenol	0.275	0.280		1.8	20.0
Naphthalene	1.053	1.057		0.4	
Hexachlorobutadiene	0.192	0.205		6.8	20.0
2-Methylnaphthalene	0.665	0.681		2.4	
2,4,6-Trichlorophenol	0.339	0.331		-2.4	20.0
2-Fluorobiphenyl	1.331	1.376		3.4	
2,4,5-Trichlorophenol	0.370	0.361		-2.4	
Acenaphthylene	1.652	1.626		-1.6	
Acenaphthene	1.111	1.101		-0.9	20.0
Dibenzofuran	1.568	1.584		1.0	
Fluorene	1.249	1.314		5.2	
2,4,6-Tribromophenol	0.164	0.163		-0.6	
Hexachlorobenzene	0.224	0.221		-1.3	
Pentachlorophenol	0.101	0.094		-6.9	20.0
Phenanthrene	1.030	1.031		0.1	
Carbazole	0.875	0.850		-2.9	
Di-n-butylphthalate	0.984	1.072		8.9	
Fluoranthene	0.961	0.935		-2.7	20.0
Pyrene	1.883	1.903		1.1	
Terphenyl-d14	1.195	1.229		2.8	
Benzo(a)anthracene	1.377	1.316		-4.4	
Chrysene	1.243	1.276		2.7	
Bis(2-ethylhexyl)phthalate	0.883	0.812		-8.0	
Benzo(b)fluoranthene	1.240	1.293		4.3	
Benzo(k)fluoranthene	1.073	1.068		-0.5	
Benzo(a)pyrene	1.043	1.067		2.3	20.0
Indeno(1,2,3-cd)pyrene	1.433	1.318		-8.0	
Dibenzo(a,h)anthracene	1.177	1.083		-8.0	
Benzo(g,h,i)perylene	1.221	1.091		-10.6	
1,4-Dioxane	0.567	0.506		-10.8	20.0

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: JACO05

Lab Code: CHEM Case No.: P3467 SAS No.: P3467 SDG No.: P3467

Instrument ID: BNA_F Calibration Date/Time: 08/14/2024 12:03

Lab File ID: BF138988.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

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

COMPOUND	$\overline{RRF}$	RRF040	MIN RRF	%D	MAX%D
1-Methylnaphthalene	0.652	0.671		2.9	

All other compounds must meet a minimum RRF of 0.010.

Quantitation Report (QT Reviewed)

Sample Results: **BF138988.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.839	152	46569	20.000 ng	0.00
21) Naphthalene-d8	8.122	136	180395	20.000 ng	0.00
39) Acenaphthene-d10	9.869	164	100753	20.000 ng	-0.01
64) Phenanthrene-d10	11.357	188	170882	20.000 ng	-0.01
76) Chrysene-d12	13.998	240	83079	20.000 ng	0.00
86) Perylene-d12	15.462	264	87305	20.000 ng	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	5.469	112	238261	78.978 ng	0.00
7) Phenol-d6	6.487	99	317188	78.311 ng	0.00
23) Nitrobenzene-d5	7.410	82	310197	84.071 ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	65588	79.472 ng	0.00
45) 2-Fluorobiphenyl	9.192	172	554400	82.676 ng	-0.01
79) Terphenyl-d14	12.939	244	408271	82.278 ng	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.575	88	47110	35.669 ng	# 93
3) Pyridine	3.334	79	118879	37.156 ng	93
4) n-Nitrosodimethylamine	3.304	42	86150	45.210 ng	# 80
6) Aniline	6.504	93	138167	38.250 ng	# 55
8) 2-Chlorophenol	6.628	128	124880	39.344 ng	98
9) Benzaldehyde	6.392	77	79598	32.783 ng	100
10) Phenol	6.498	94	164246	38.514 ng	79
11) bis(2-Chloroethyl)ether	6.575	93	118703	36.171 ng	100
12) 1,3-Dichlorobenzene	6.775	146	137294	38.642 ng	97
13) 1,4-Dichlorobenzene	6.857	146	141561	39.481 ng	98
14) 1,2-Dichlorobenzene	7.010	146	131427	39.221 ng	99
15) Benzyl Alcohol	6.987	79	120359	41.229 ng	96
16) 2,2'-oxybis(1-Chloropr...	7.110	45	198801	35.200 ng	52
17) 2-Methylphenol	7.104	107	100716	38.428 ng	# 90
18) Hexachloroethane	7.345	117	53609	39.720 ng	97
19) n-Nitroso-di-n-propyla...	7.257	70	97551	39.876 ng	96
20) 3+4-Methylphenols	7.257	107	135810	40.386 ng	92
22) Acetophenone	7.251	105	189628	42.932 ng	99
24) Nitrobenzene	7.428	77	156466	41.674 ng	98
25) Isophorone	7.663	82	253087	40.170 ng	99
26) 2-Nitrophenol	7.739	139	64715	40.063 ng	94
27) 2,4-Dimethylphenol	7.781	122	77034	39.859 ng	96
28) bis(2-Chloroethoxy)met...	7.869	93	145855	38.016 ng	98
29) 2,4-Dichlorophenol	7.986	162	100855	40.610 ng	99
30) 1,2,4-Trichlorobenzene	8.063	180	115653	40.354 ng	99
31) Naphthalene	8.139	128	381268	40.153 ng	100
32) Benzoic acid	7.928	122	45176m	29.736 ng	
33) 4-Chloroaniline	8.198	127	122579	38.457 ng	98
34) Hexachlorobutadiene	8.251	225	74090	42.681 ng	98
35) Caprolactam	8.575	113	32178m	43.423 ng	
36) 4-Chloro-3-methylphenol	8.686	107	120444	42.436 ng	99
37) 2-Methylnaphthalene	8.828	142	245717	40.974 ng	100
38) 1-Methylnaphthalene	8.928	142	241962	41.175 ng	99
40) 1,2,4,5-Tetrachloroben...	8.992	216	112930	40.349 ng	98
41) Hexachlorocyclopentadiene	8.975	237	20861	32.674 ng	99
43) 2,4,6-Trichlorophenol	9.116	196	66716	39.096 ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	72737	38.990	ng		98
46) 1,1'-Biphenyl	9.292	154	314999	39.920	ng		99
47) 2-Chloronaphthalene	9.322	162	230293	39.241	ng		98
48) 2-Nitroaniline	9.422	65	84279	42.361	ng		92
49) Acenaphthylene	9.733	152	327703	39.371	ng		100
50) Dimethylphthalate	9.592	163	267963	41.594	ng		99
51) 2,6-Dinitrotoluene	9.663	165	60318	41.487	ng	#	85
52) Acenaphthene	9.904	154	221840	39.648	ng		99
53) 3-Nitroaniline	9.839	138	57785	38.446	ng		93
54) 2,4-Dinitrophenol	9.957	184	24129	36.052	ng		86
55) Dibenzofuran	10.075	168	319282	40.425	ng		98
56) 4-Nitrophenol	10.016	139	43088	47.672	ng		88
57) 2,4-Dinitrotoluene	10.075	165	79095	42.640	ng	#	78
58) Fluorene	10.422	166	264679	42.082	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.204	232	55371	38.824	ng		96
60) Diethylphthalate	10.292	149	266725	43.665	ng		100
61) 4-Chlorophenyl-phenyle...	10.410	204	128294	41.474	ng		97
62) 4-Nitroaniline	10.451	138	57048	39.940	ng	#	82
63) Azobenzene	10.569	77	274490	40.516	ng		95
65) 4,6-Dinitro-2-methylph...	10.486	198	38536	36.964	ng		95
66) n-Nitrosodiphenylamine	10.533	169	212563	39.795	ng		99
67) 4-Bromophenyl-phenylether	10.898	248	72344	39.102	ng		97
68) Hexachlorobenzene	10.969	284	75615	39.584	ng		99
69) Atrazine	11.057	200	51899	37.660	ng		99
70) Pentachlorophenol	11.174	266	32173	37.365	ng		99
71) Phenanthrene	11.380	178	352327	40.041	ng		100
72) Anthracene	11.433	178	344553	39.749	ng		100
73) Carbazole	11.592	167	290496	38.844	ng		99
74) Di-n-butylphthalate	11.910	149	366466	43.590	ng		99
75) Fluoranthene	12.569	202	319496	38.894	ng		99
77) Benzidine	12.698	184	70708	35.583	ng		100
78) Pyrene	12.798	202	316221	40.426	ng		100
80) Butylbenzylphthalate	13.410	149	104111	41.563	ng		99
81) Benzo(a)anthracene	13.986	228	218644	38.218	ng		100
82) 3,3'-Dichlorobenzidine	13.951	252	60294	41.184	ng		99
83) Chrysene	14.027	228	211974	41.069	ng		100
84) Bis(2-ethylhexyl)phtha...	13.963	149	134893	36.776	ng		98
85) Di-n-octyl phthalate	14.574	149	223969	33.003	ng		99
87) Indeno(1,2,3-cd)pyrene	16.939	276	230050	36.769	ng		96
88) Benzo(b)fluoranthene	15.033	252	225713	41.706	ng		98
89) Benzo(k)fluoranthene	15.062	252	186532	39.808	ng		99
90) Benzo(a)pyrene	15.404	252	186317	40.928	ng		98
91) Dibenzo(a,h)anthracene	16.945	278	189073	36.814	ng		96
92) Benzo(g,h,i)perylene	17.380	276	190583	35.760	ng		96

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

Quantitation Report (QT Reviewed)

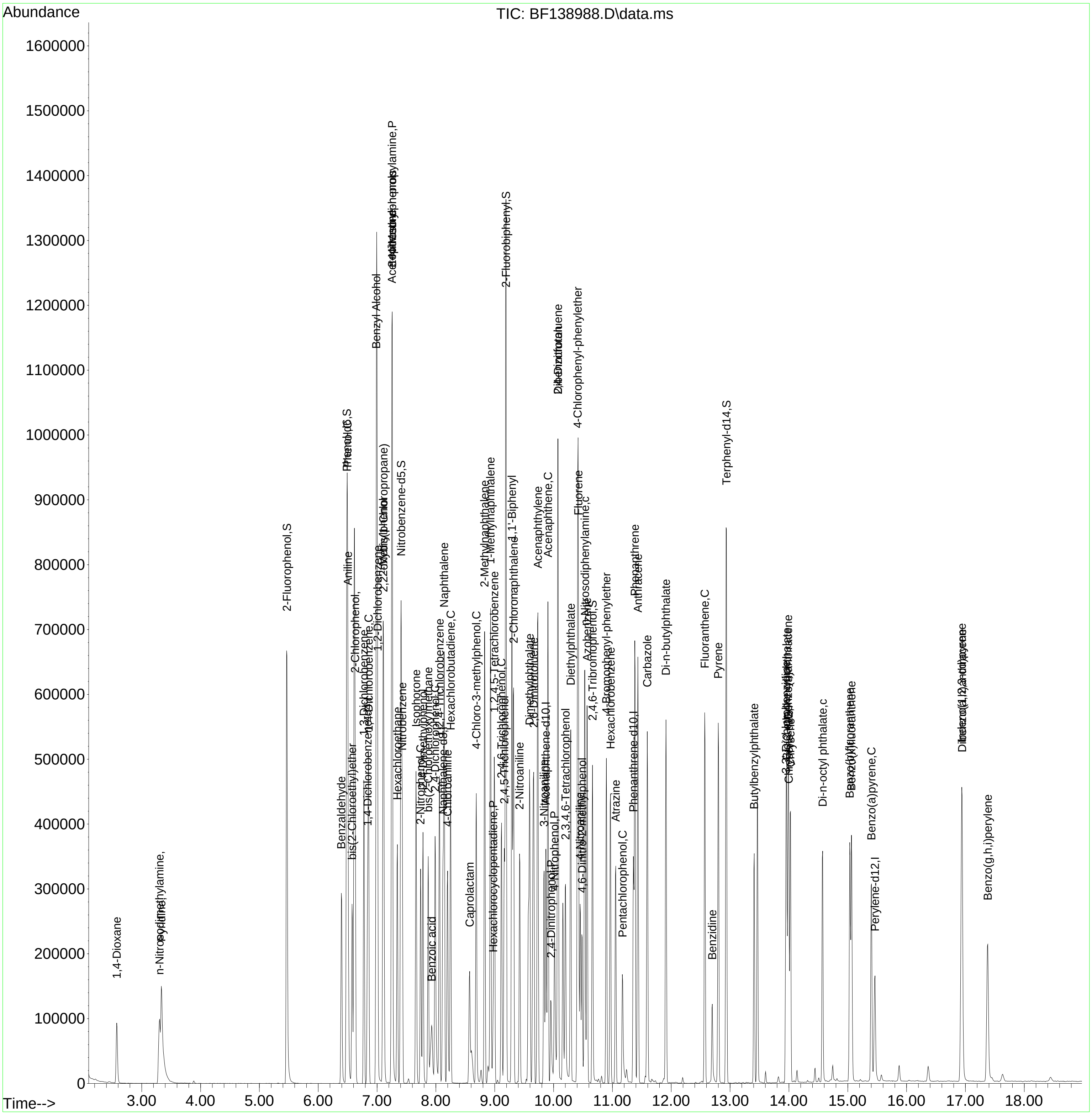
Sample Results: **BF138988.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On    : 14 Aug 2024  12:03
Operator  : RC/JU
Sample    : SSTDCCC040
Misc      :
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration
```

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

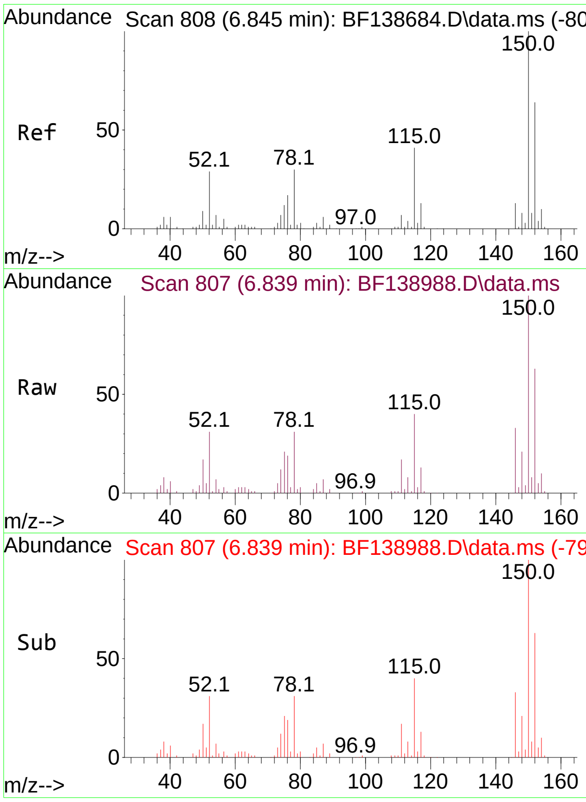
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

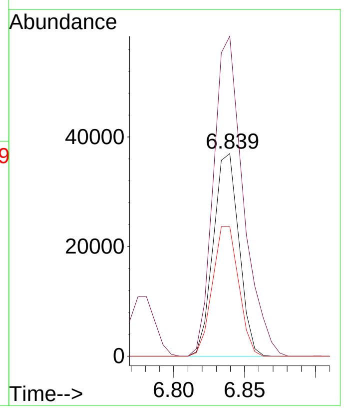
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

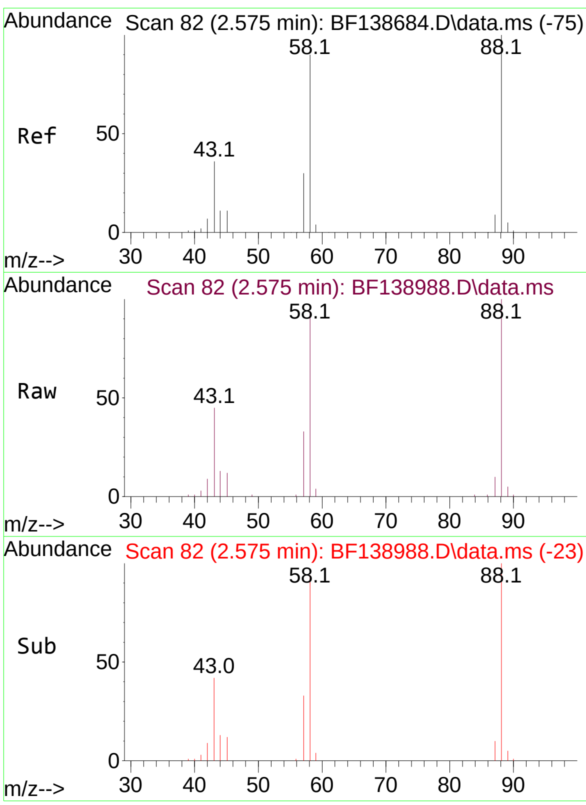


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.839 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:152 Resp: 4656

Ion	Ratio	Lower	Upper
152	100		
150	158.0	126.0	189.0
115	63.9	51.7	77.5

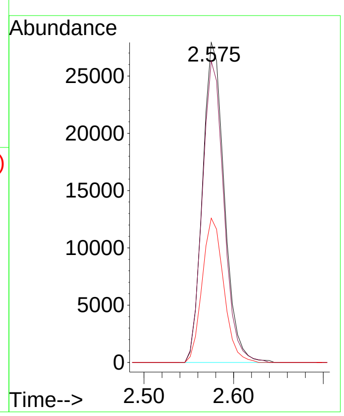




#2
1,4-Dioxane
Concen: 35.669 ng
RT: 2.575 min Scan# 82
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 88 Resp: 47110

Ion	Ratio	Lower	Upper
88	100		
58	93.2	71.6	107.4
43	44.6	28.7	43.1#

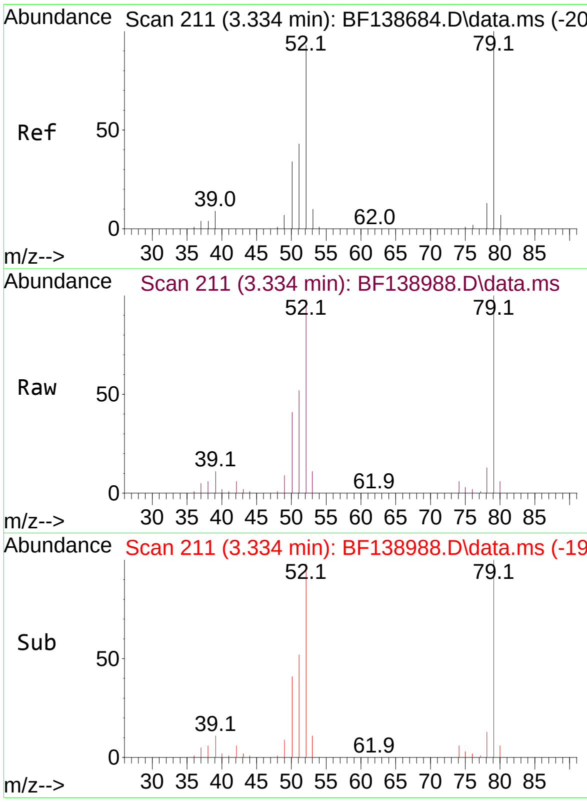


Sample Results: **BF138988.D**

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

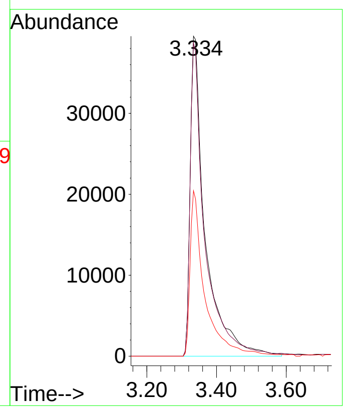
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

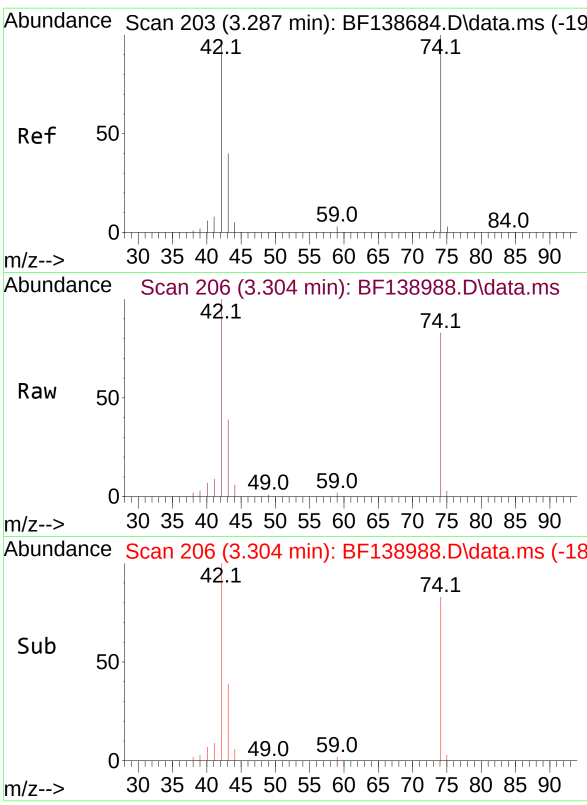


#3
Pyridine
Concen: 37.156 ng
RT: 3.334 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 79 Resp: 11887

Ion	Ratio	Lower	Upper
79	100		
52	97.9	74.7	112.1
51	51.7	34.6	51.8

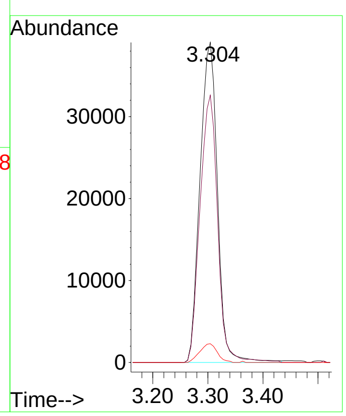


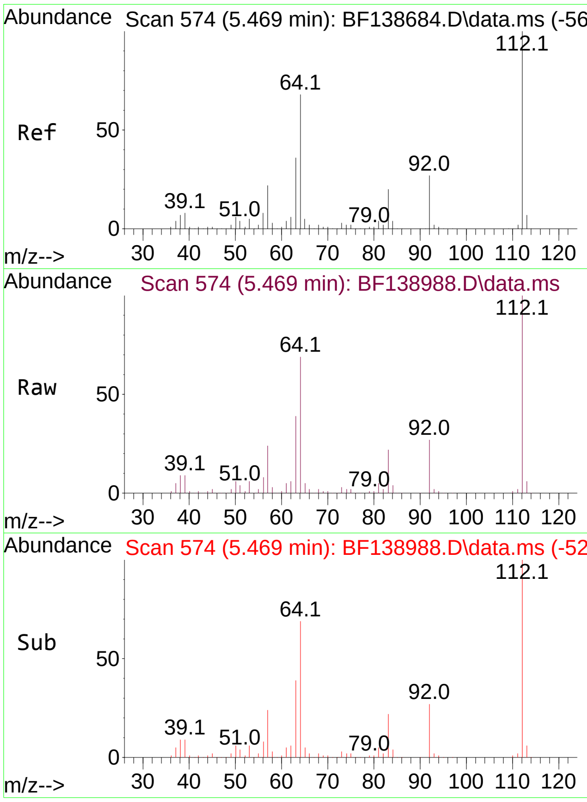


#4
n-Nitrosodimethylamine
Concen: 45.210 ng
RT: 3.304 min Scan# 206
Delta R.T. 0.018 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 42 Resp: 86150

Ion	Ratio	Lower	Upper
42	100		
74	83.5	84.2	126.4#
44	5.9	4.9	7.3





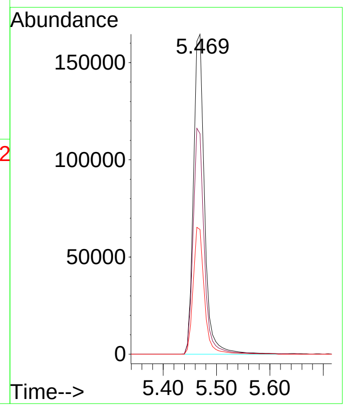
#5
2-Fluorophenol
Concen: 78.978 ng
RT: 5.469 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

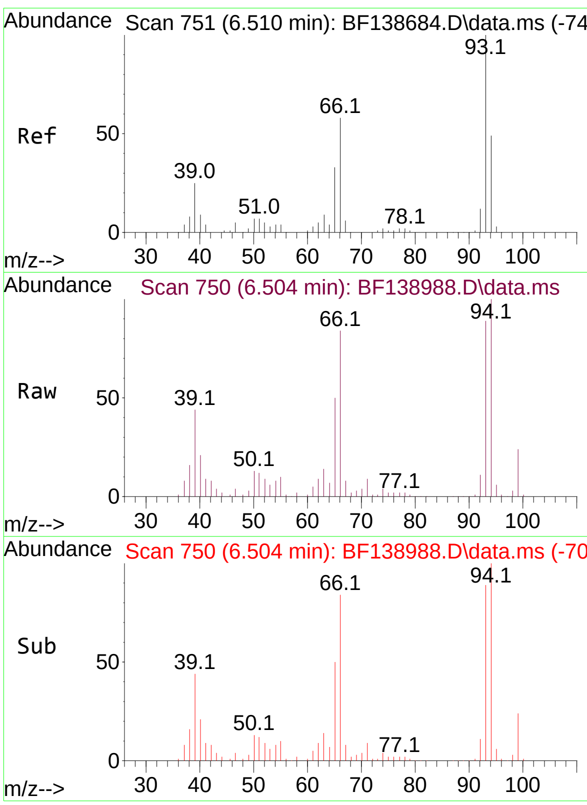
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 23826

Ion	Ratio	Lower	Upper
112	100		
64	68.9	54.2	81.4
63	38.9	28.7	43.1

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

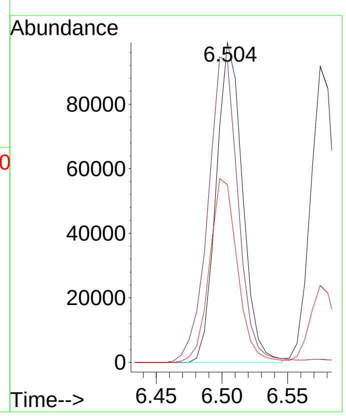


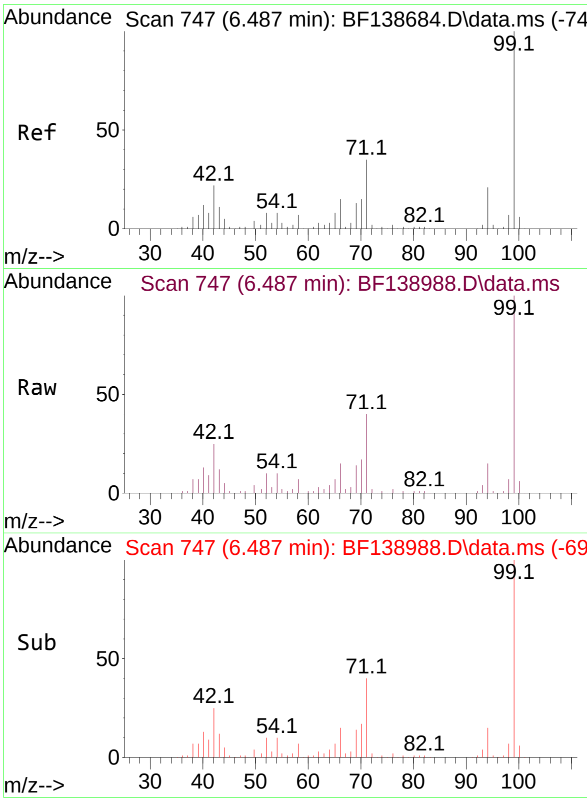


#6
Aniline
Concen: 38.250 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 93 Resp: 138167

Ion	Ratio	Lower	Upper
93	100		
66	94.2	46.9	70.3#
65	55.6	26.5	39.7#





#7
Phenol-d6
Concen: 78.311 ng
RT: 6.487 min Scan# 74
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

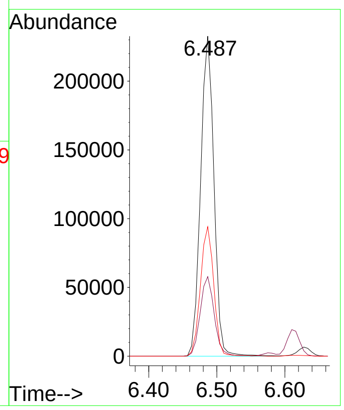
Tgt Ion: 99 Resp: 31718

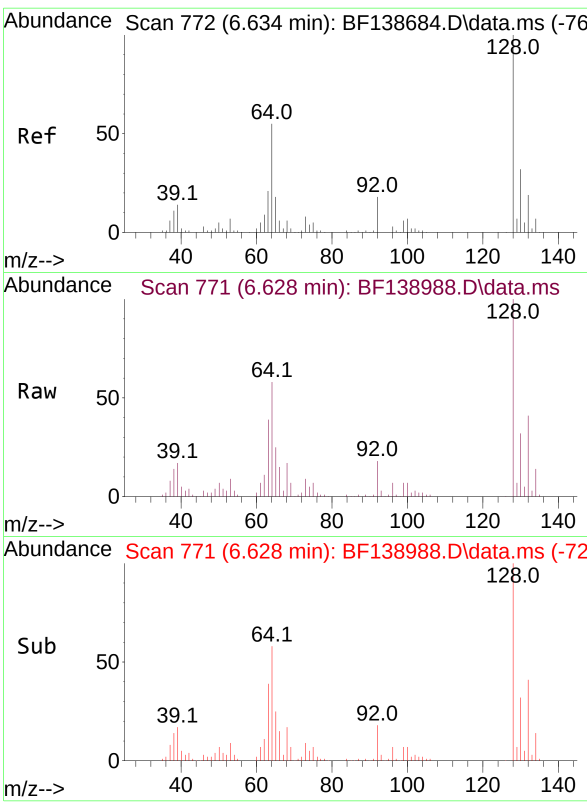
Ion	Ratio	Lower	Upper
99	100		
42	24.8	17.4	26.0
71	40.5	28.1	42.1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

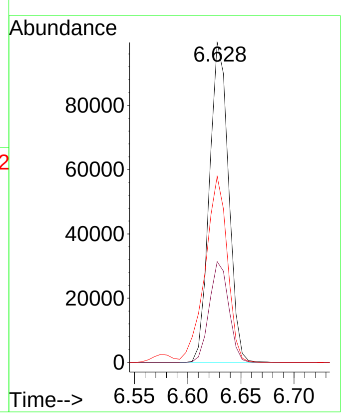




#8
2-Chlorophenol
Concen: 39.344 ng
RT: 6.628 min Scan# 771
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:128 Resp: 124880

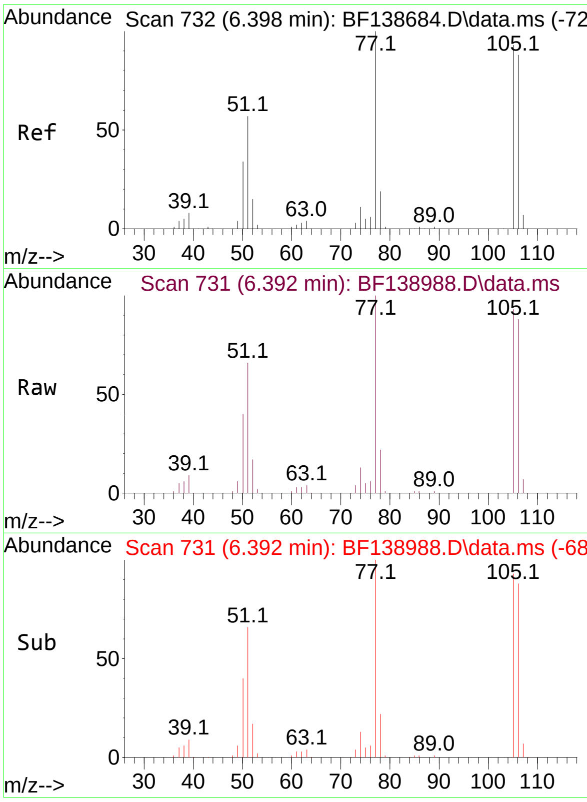
Ion	Ratio	Lower	Upper
128	100		
130	31.5	12.0	52.0
64	58.2	36.3	76.3



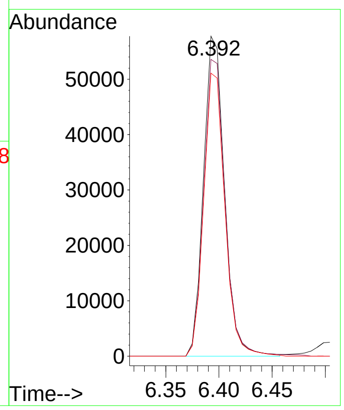
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

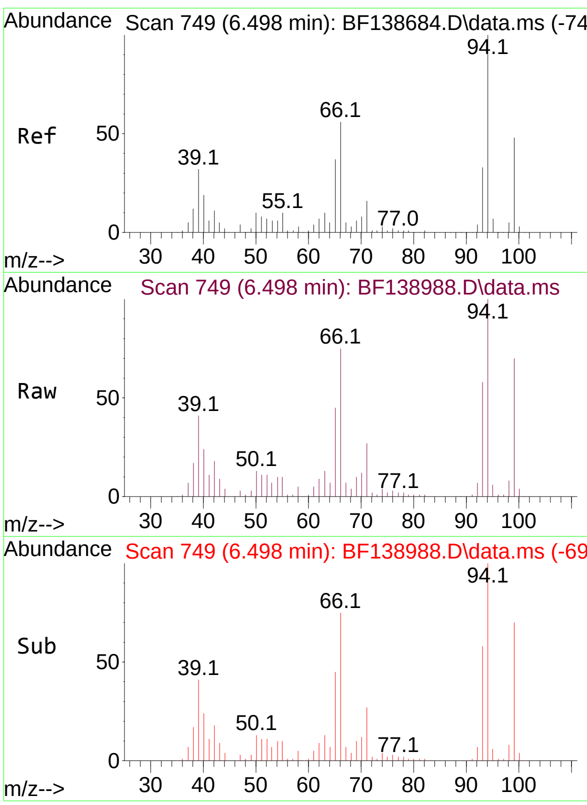
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

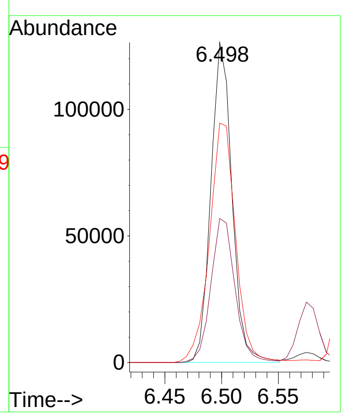



```
#9
Benzaldehyde
Concen:   32.783 ng
RT:   6.392 min   Scan# 7
Delta R.T.   -0.006 min
Lab File:   BF138988.D
Acq: 14 Aug 2024   12:03

Tgt Ion: 77 Resp:   7959
Ion   Ratio   Lower   Upper
 77   100
105    92.7    72.9   112.9
106    88.4    68.4   108.4
```






```
#10
Phenol
Concen:   38.514 ng
RT:   6.498 min   Scan# 749
Delta R.T.   -0.000 min
Lab File:   BF138988.D
Acq: 14 Aug 2024   12:03

Tgt Ion: 94 Resp:   164246
Ion   Ratio   Lower   Upper
 94   100
 65    45.0    16.9    56.9
 66    74.8    36.5    76.5
```

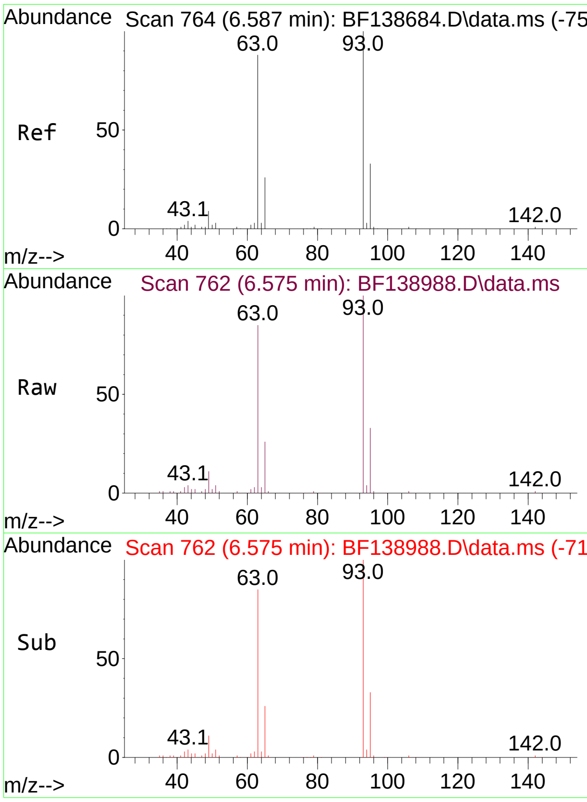


Sample Results: **BF138988.D**

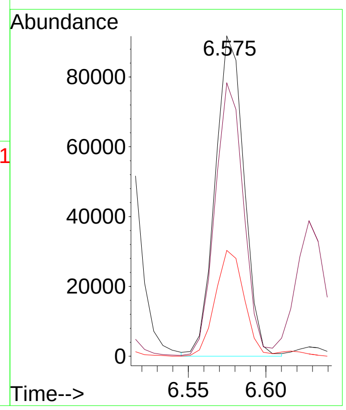
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

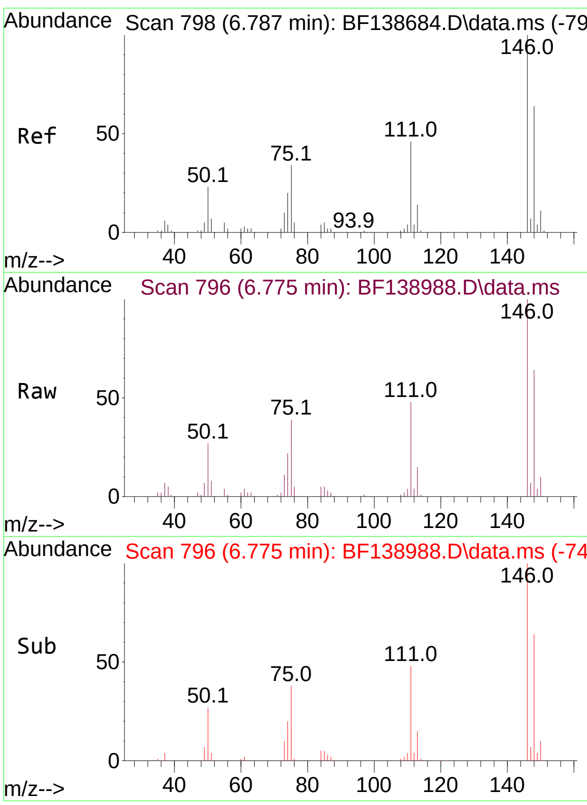
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

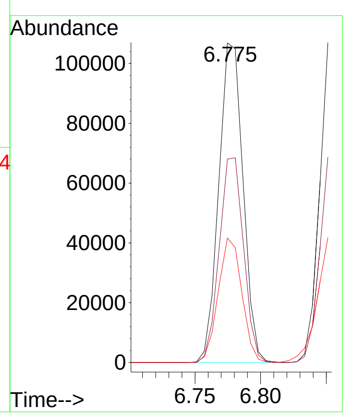



```
#11
bis(2-Chloroethyl)ether
Concen:   36.171 ng
RT:   6.575 min  Scan# 7
Delta R.T.  -0.012 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion: 93 Resp:  11870
Ion  Ratio  Lower  Upper
 93  100
 63   85.4   65.3  105.3
 95   33.0   12.4   52.4
```





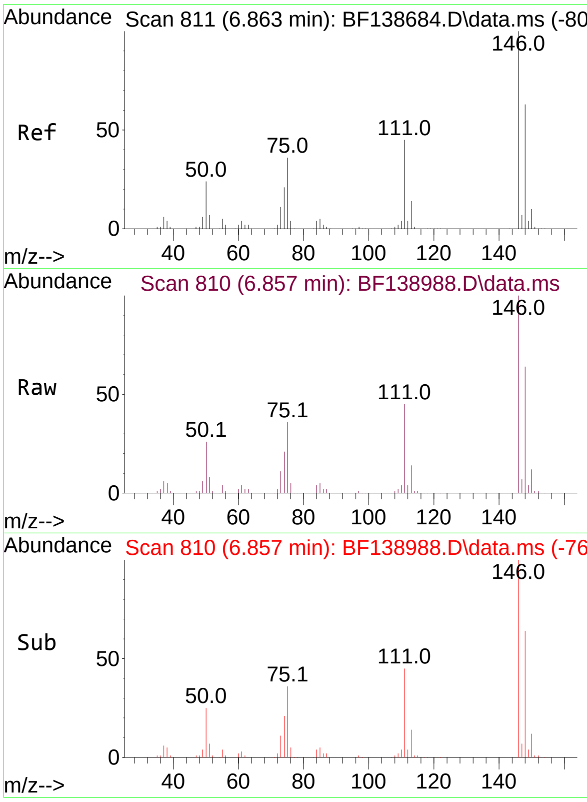

```
#12
1,3-Dichlorobenzene
Concen:   38.642 ng
RT:   6.775 min  Scan# 796
Delta R.T.  -0.012 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:146 Resp:  137294
Ion  Ratio  Lower  Upper
146  100
148   63.6   51.2   76.8
 75   39.0   27.4   41.2
```



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

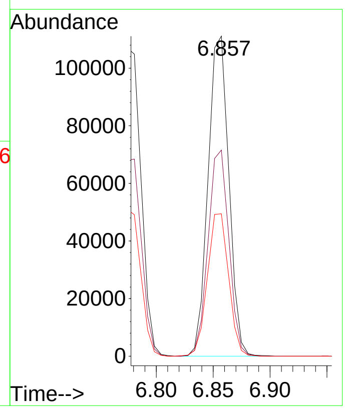
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

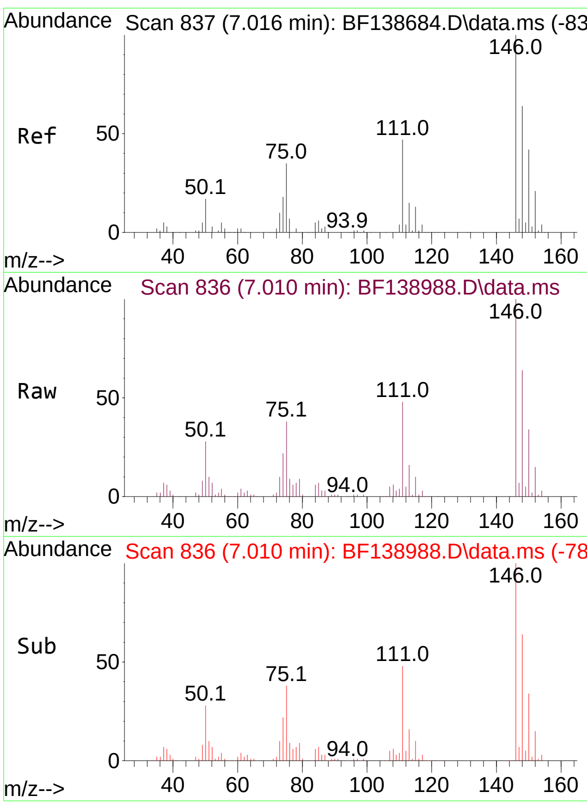


#13
1,4-Dichlorobenzene
Concen: 39.481 ng
RT: 6.857 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:146 Resp: 14156

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.2	75.2
111	44.5	35.9	53.9

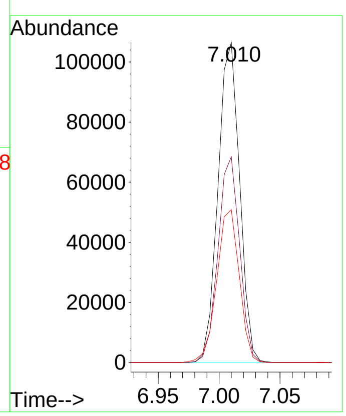




#14
1,2-Dichlorobenzene
Concen: 39.221 ng
RT: 7.010 min Scan# 836
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

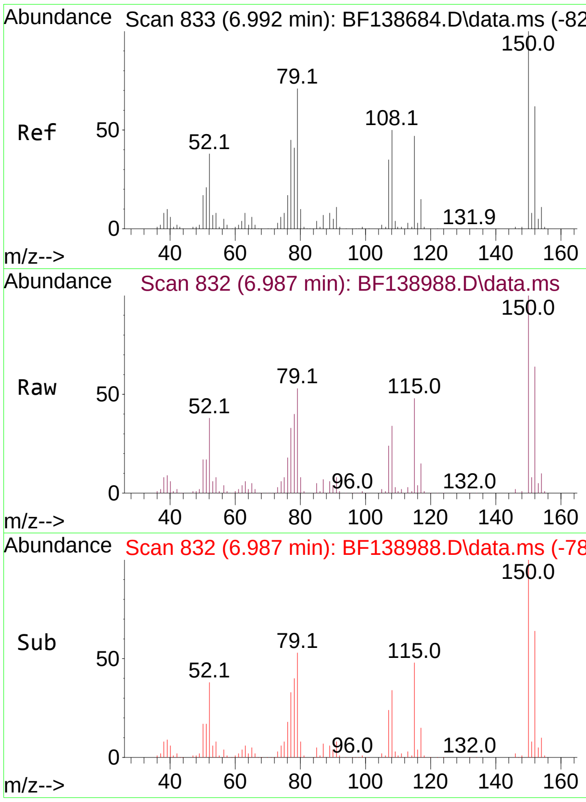
Tgt Ion:146 Resp: 131427

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.8	76.2
111	47.8	37.4	56.2

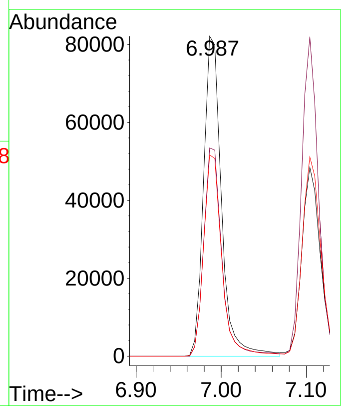


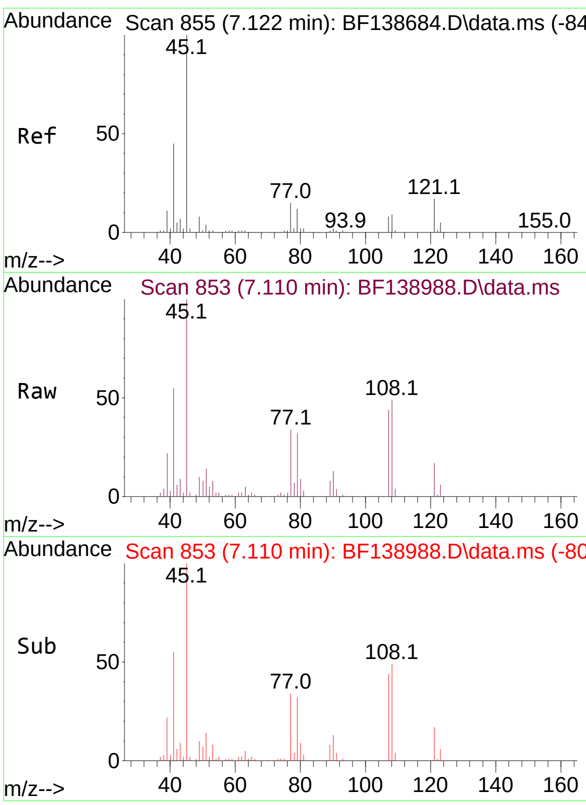
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

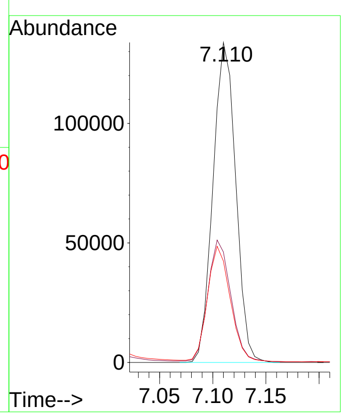


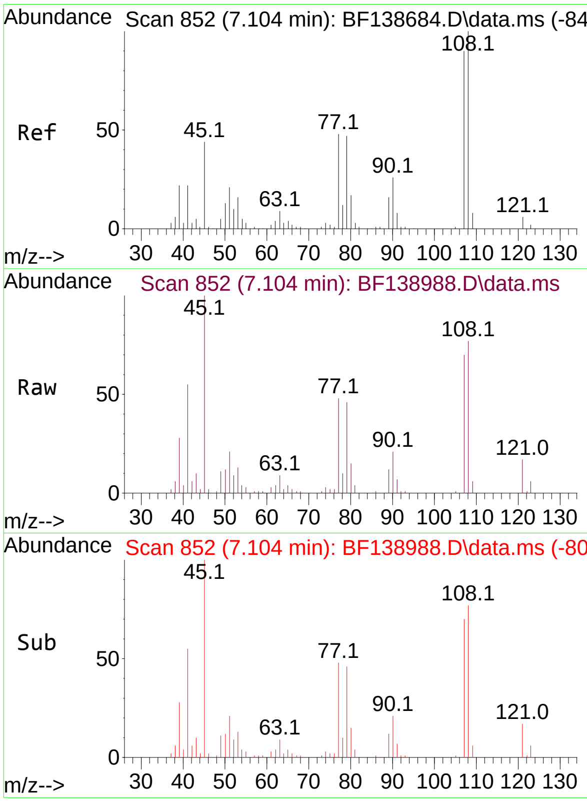

```
#15
Benzyl Alcohol
Concen:   41.229 ng
RT:   6.987 min  Scan# 8
Delta R.T.  -0.006 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion: 79 Resp:  120359
Ion  Ratio  Lower  Upper
 79  100
108   65.1   56.6   85.0
 77   62.9   50.3   75.5
```






```
#16
2,2'-oxybis(1-Chloropropane)
Concen:   35.200 ng
RT:   7.110 min  Scan# 853
Delta R.T.  -0.012 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion: 45 Resp:  198801
Ion  Ratio  Lower  Upper
 45  100
 77   34.5    0.0   34.9
 79   31.7    0.0   32.2
```





#17
2-Methylphenol
Concen: 38.428 ng
RT: 7.104 min Scan# 8!
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

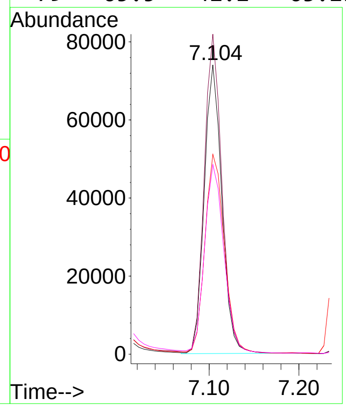
Tgt Ion:107 Resp: 10071(

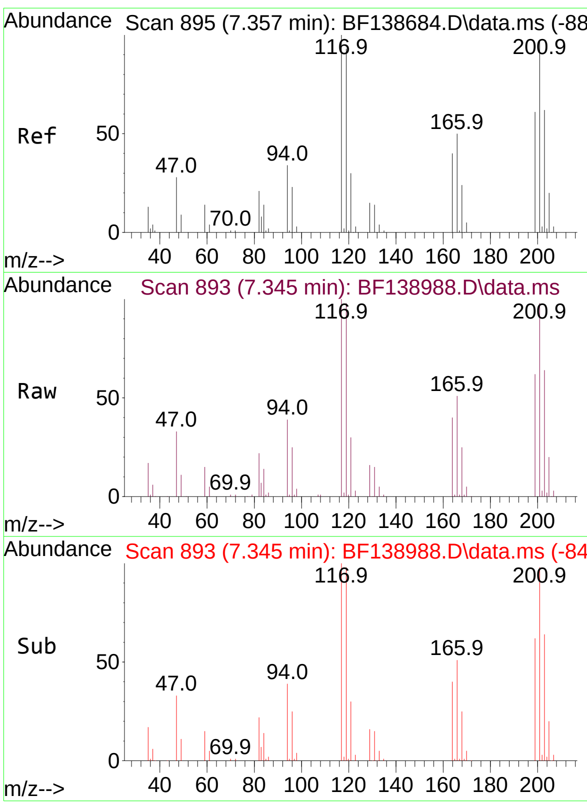
Ion	Ratio	Lower	Upper
107	100		
108	110.6	89.2	133.8
77	69.0	43.0	64.4#
79	65.5	42.2	63.2#

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

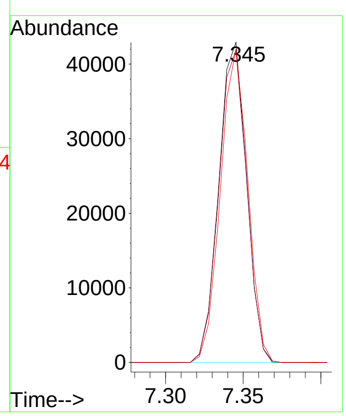




#18
Hexachloroethane
Concen: 39.720 ng
RT: 7.345 min Scan# 893
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:117 Resp: 53609

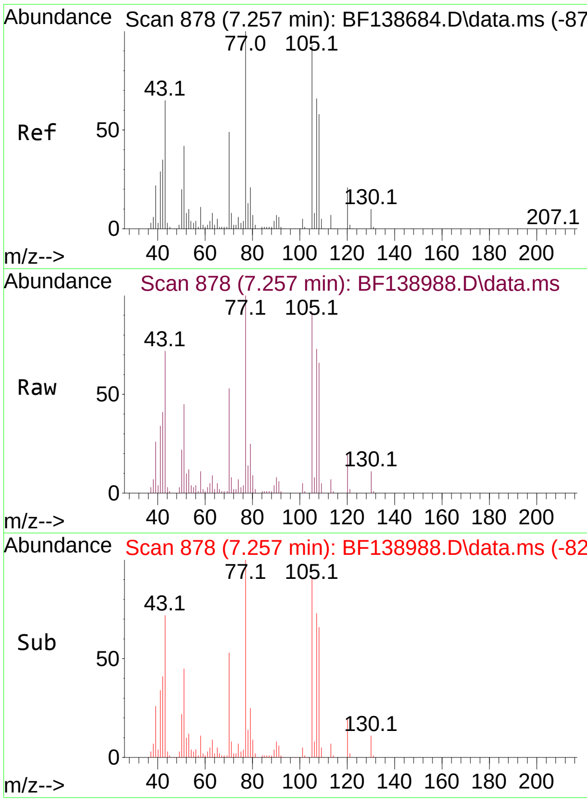
Ion	Ratio	Lower	Upper
117	100		
119	97.6	74.6	111.8
201	97.8	77.2	115.8



Instrument : BNA_F
ClientSampleId : SSTDCCC040

Manual Integrations APPROVED

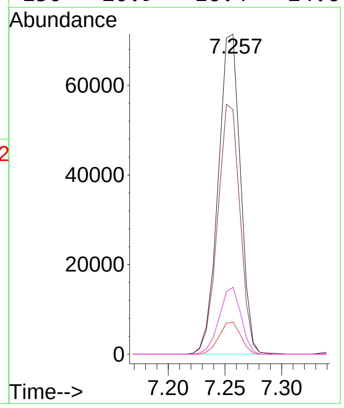
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

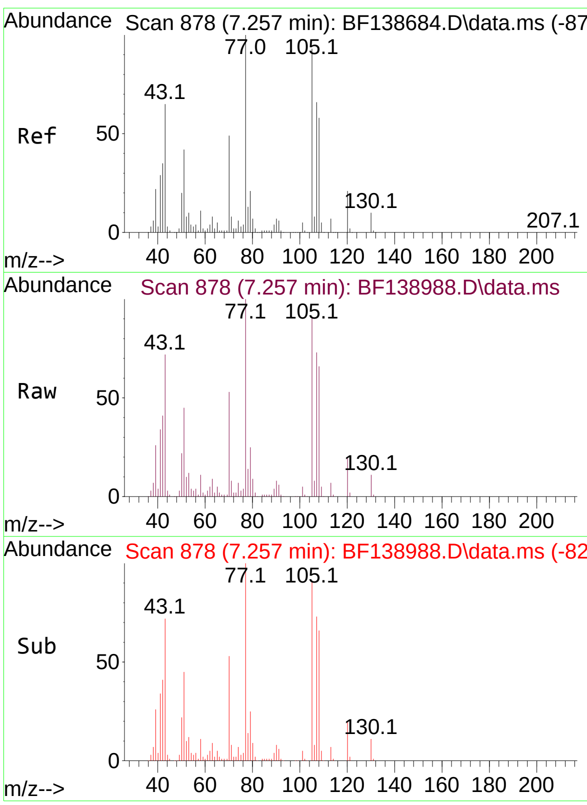


#19
n-Nitroso-di-n-propylamine
Concen: 39.876 ng
RT: 7.257 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 70 Resp: 9755

Ion	Ratio	Lower	Upper
70	100		
42	76.4	57.4	86.0
101	10.0	7.5	11.3
130	20.9	16.4	24.6

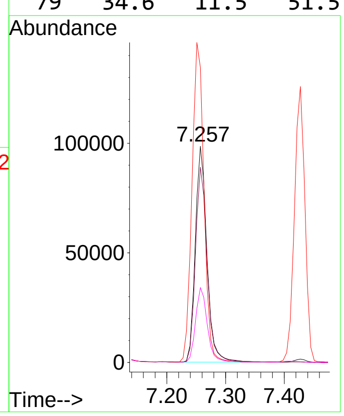




#20
3+4-Methylphenols
Concen: 40.386 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:107 Resp: 135810

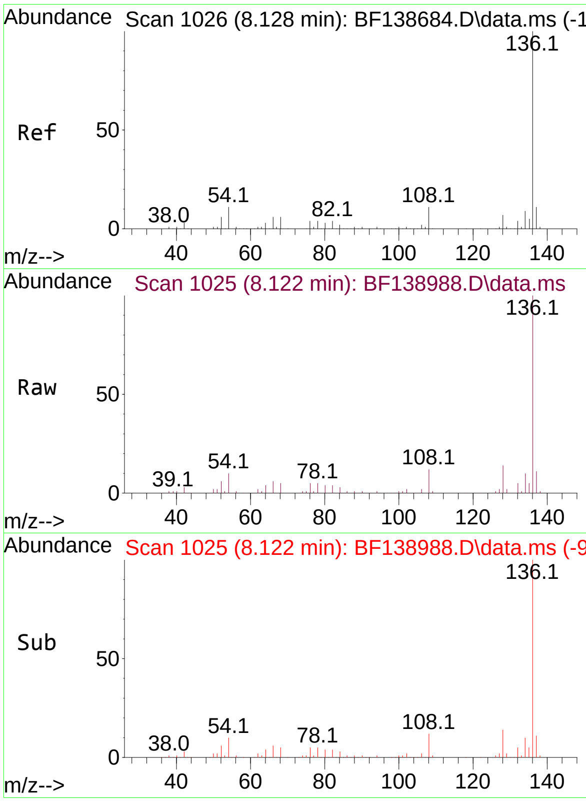
Ion	Ratio	Lower	Upper
107	100		
108	90.3	68.2	108.2
77	136.4	132.1	172.1
79	34.6	11.5	51.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

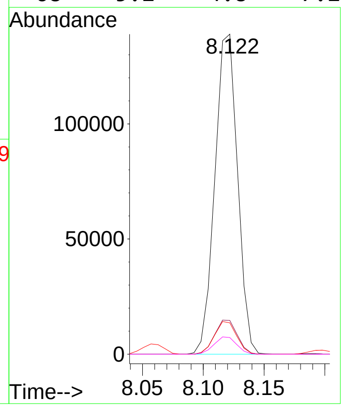
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

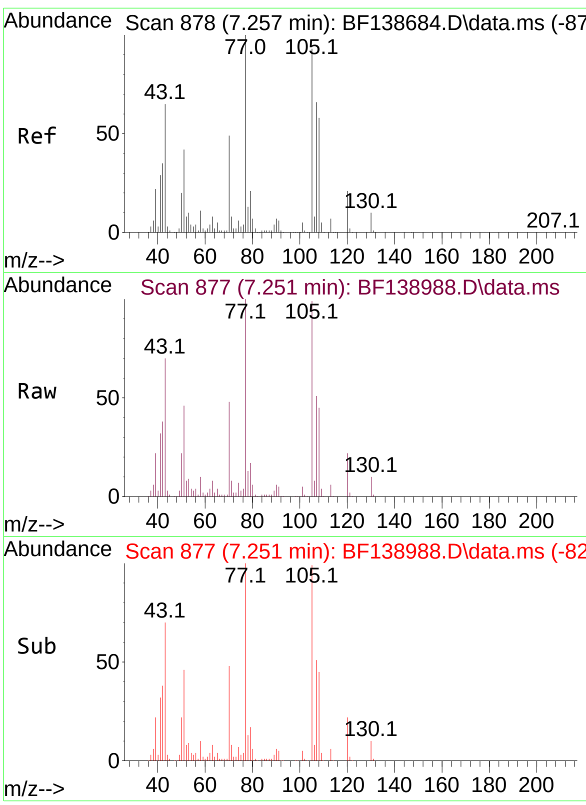


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:136 Resp: 18039

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.9	13.3
54	9.8	8.6	12.8
68	5.2	4.8	7.2

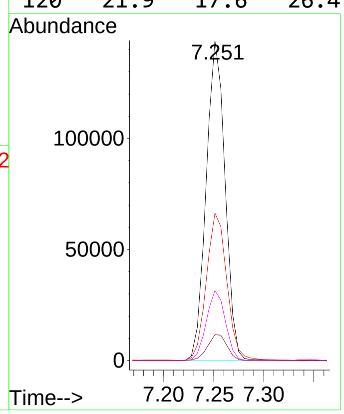


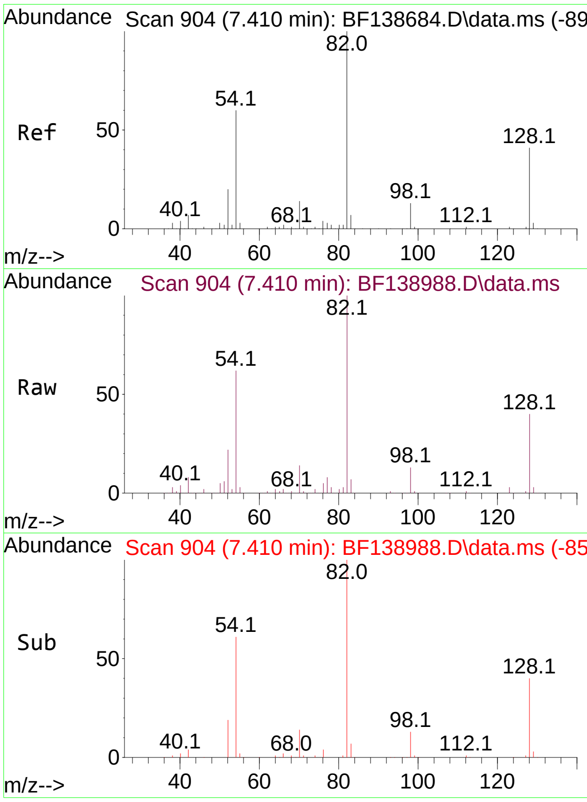


#22
Acetophenone
Concen: 42.932 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:105 Resp: 189628

Ion	Ratio	Lower	Upper
105	100		
71	8.0	7.2	10.8
51	46.1	35.9	53.9
120	21.9	17.6	26.4





#23
Nitrobenzene-d5
Concen: 84.071 ng
RT: 7.410 min Scan# 90
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

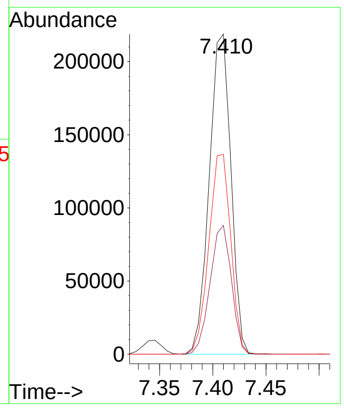
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

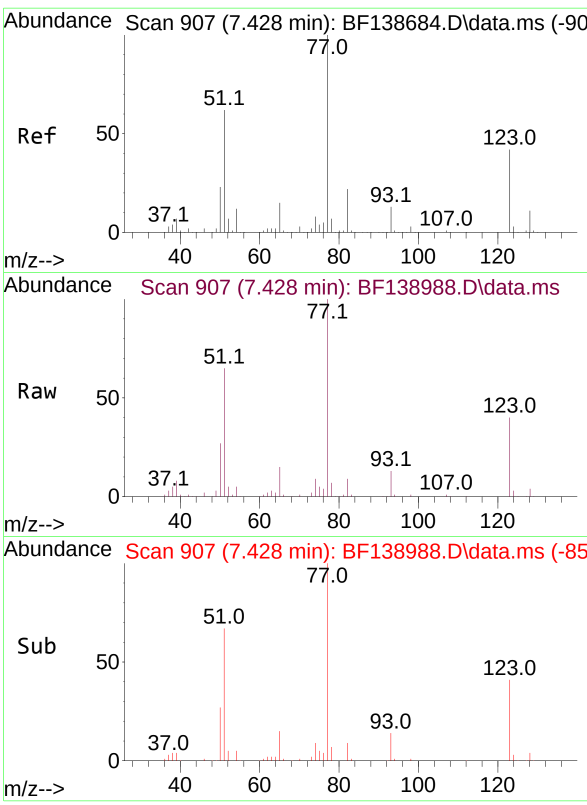
Tgt Ion: 82 Resp: 31019

Ion	Ratio	Lower	Upper
82	100		
128	40.3	32.8	49.2
54	62.4	48.3	72.5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

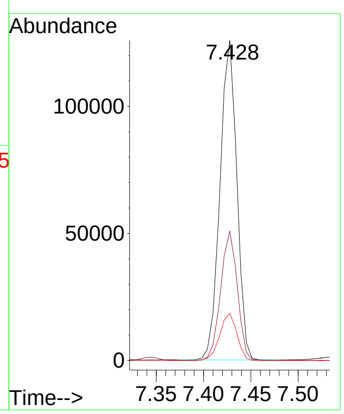


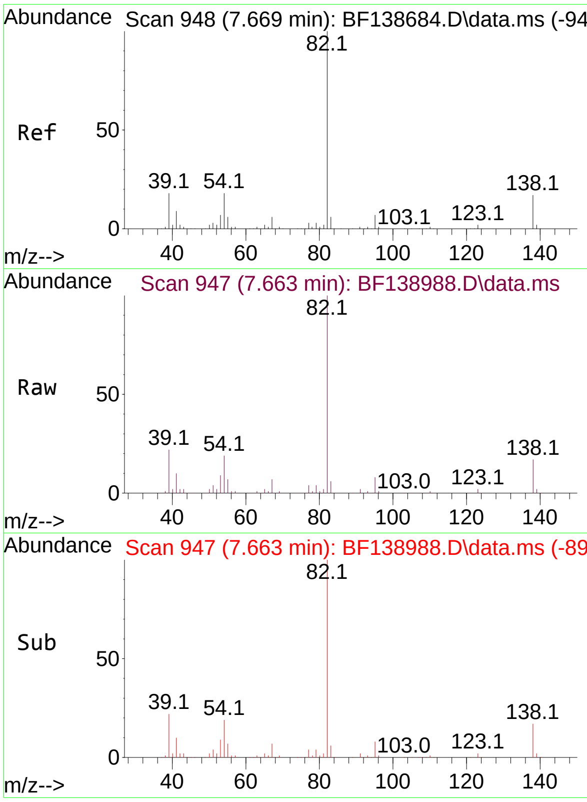


#24
Nitrobenzene
Concen: 41.674 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 77 Resp: 156466

Ion	Ratio	Lower	Upper
77	100		
123	40.3	33.3	49.9
65	14.8	11.9	17.9





#25
Isophorone
Concen: 40.170 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

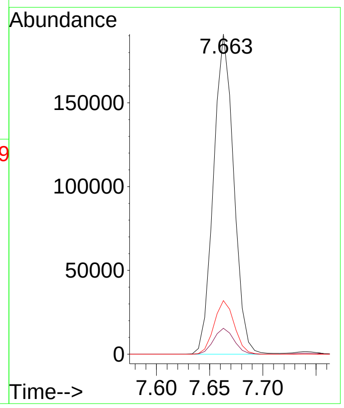
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

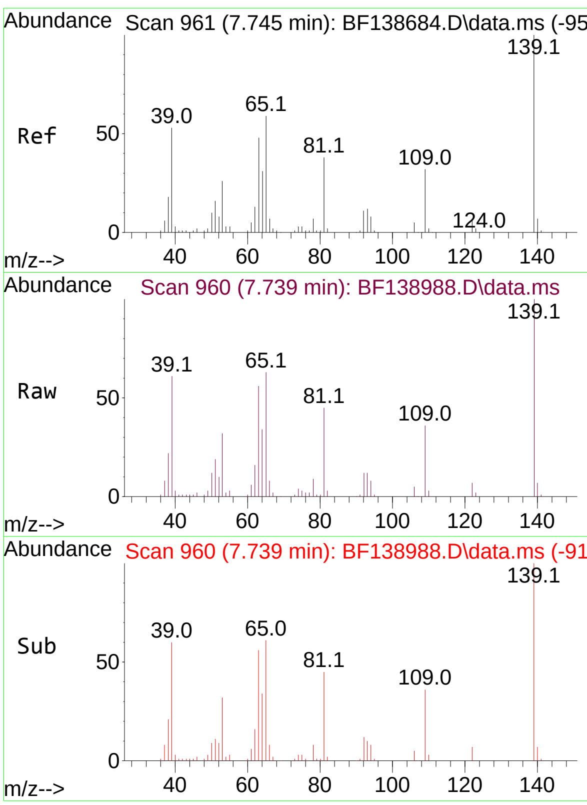
Tgt Ion: 82 Resp: 25308

Ion	Ratio	Lower	Upper
82	100		
95	8.1	5.7	8.5
138	16.7	13.7	20.5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

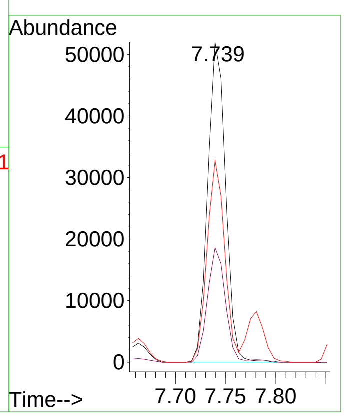




#26
2-Nitrophenol
Concen: 40.063 ng
RT: 7.739 min Scan# 960
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:139 Resp: 64715

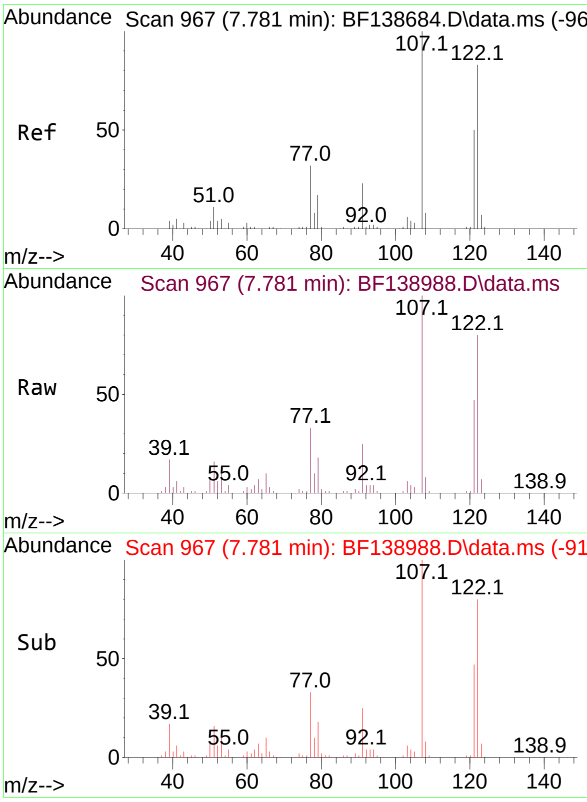
Ion	Ratio	Lower	Upper
139	100		
109	35.8	25.9	38.9
65	63.0	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

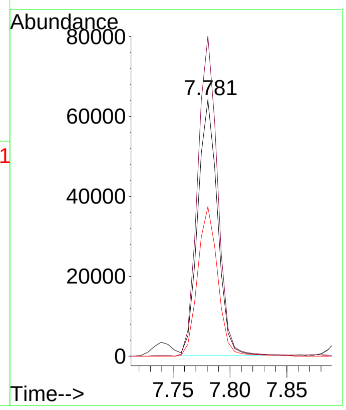
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

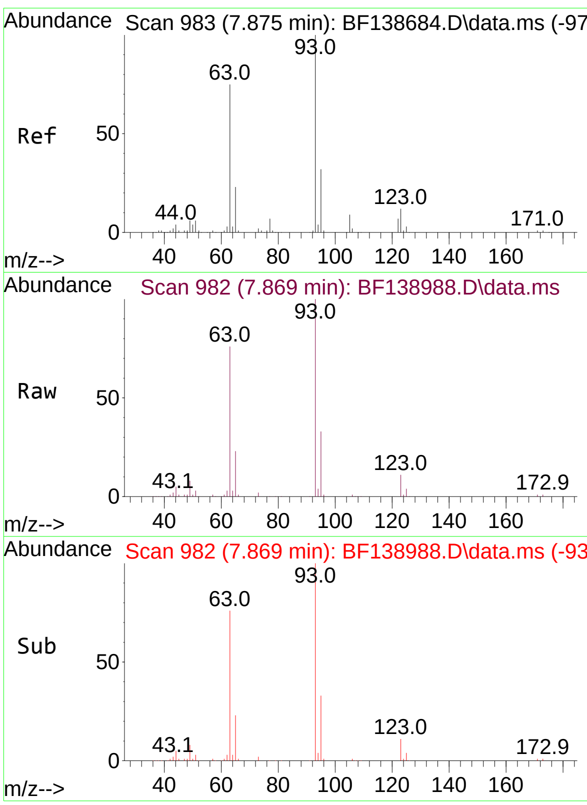


#27
2,4-Dimethylphenol
Concen: 39.859 ng
RT: 7.781 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:122 Resp: 7703

Ion	Ratio	Lower	Upper
122	100		
107	125.0	95.0	142.6
121	58.3	47.3	70.9

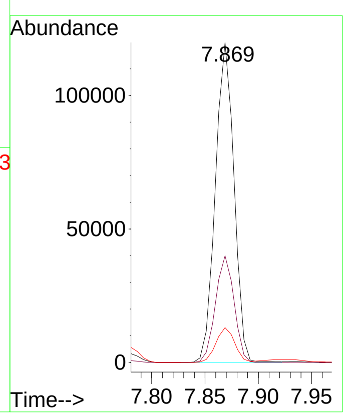


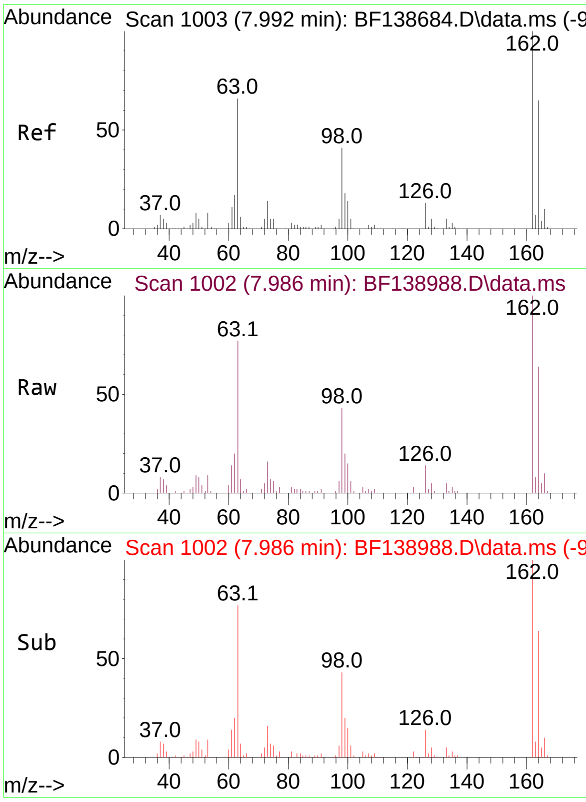


#28
bis(2-Chloroethoxy)methane
Concen: 38.016 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 93 Resp: 145855

Ion	Ratio	Lower	Upper
93	100		
95	33.3	25.8	38.8
123	10.9	9.4	14.0





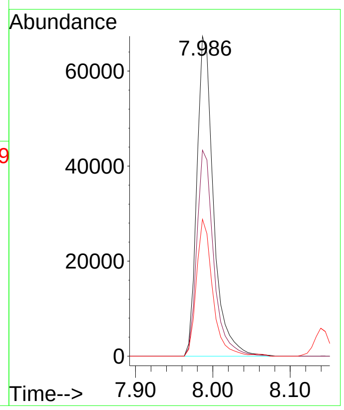
#29
2,4-Dichlorophenol
Concen: 40.610 ng
RT: 7.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

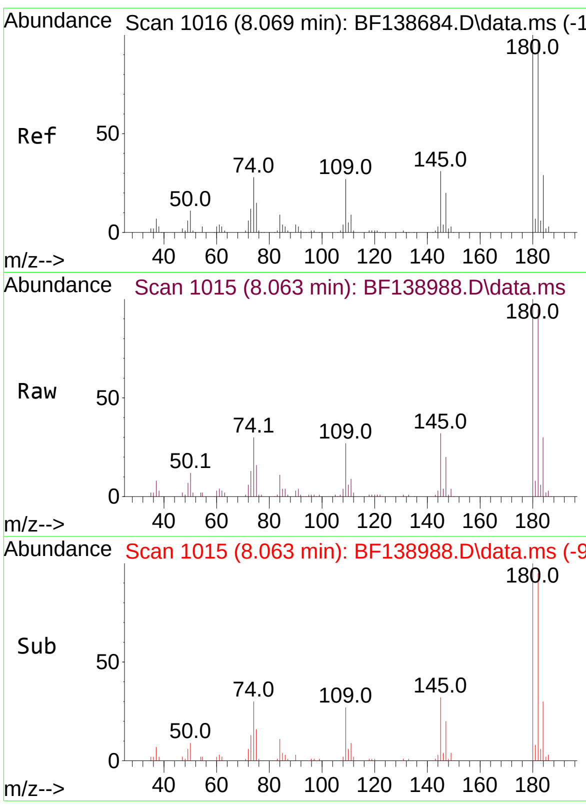
Tgt Ion:162 Resp: 10085

Ion	Ratio	Lower	Upper
162	100		
164	64.4	44.7	84.7
98	42.8	20.8	60.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

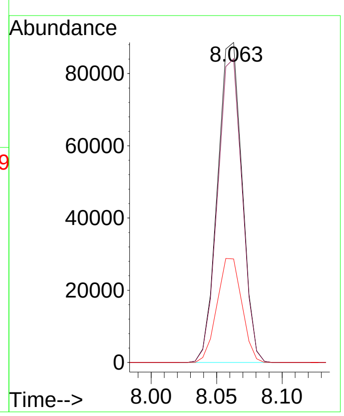




#30
1,2,4-Trichlorobenzene
Concen: 40.354 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:180 Resp: 115653

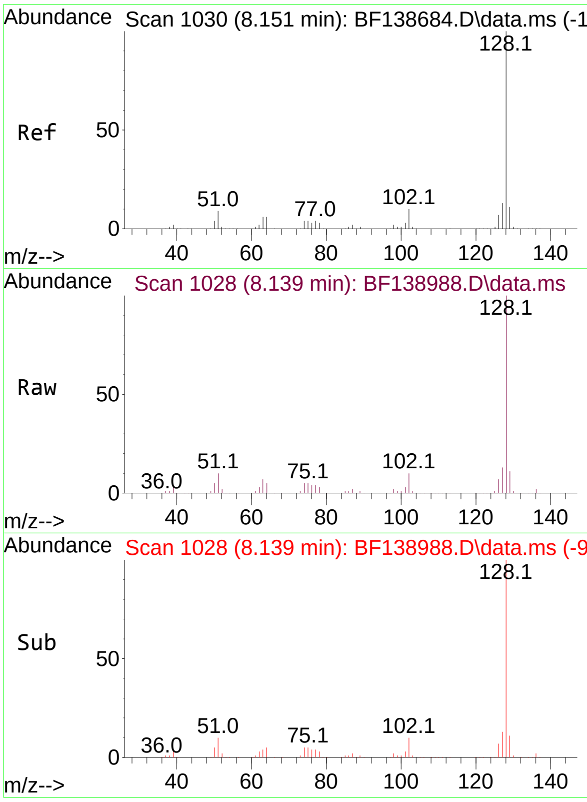
Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.9	115.3
145	32.4	25.0	37.4



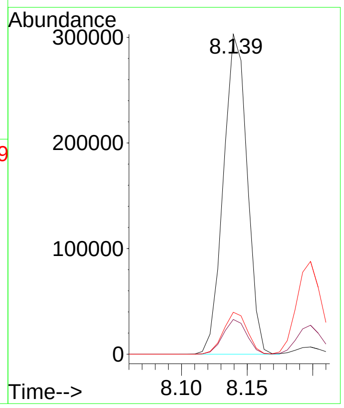
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

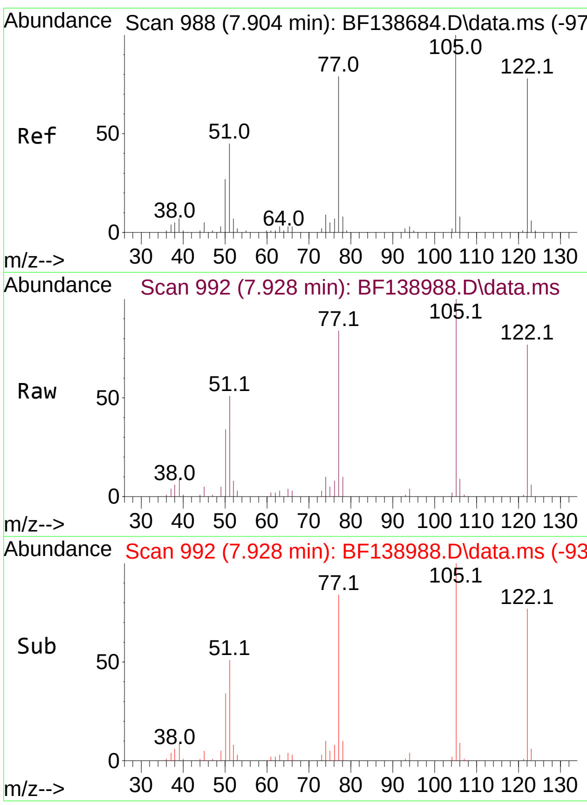
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

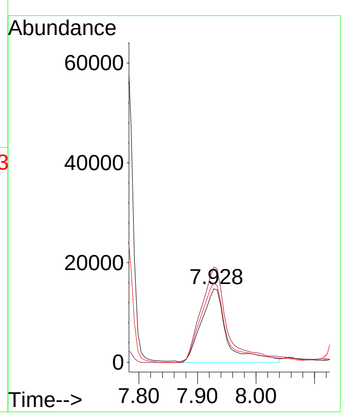



```
#31
Naphthalene
Concen:   40.153 ng
RT:   8.139 min  Scan# 10
Delta R.T.  -0.012 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:128 Resp:  38126
Ion  Ratio  Lower  Upper
128  100
129   10.9    8.7   13.1
127   13.1   10.6   16.0
```





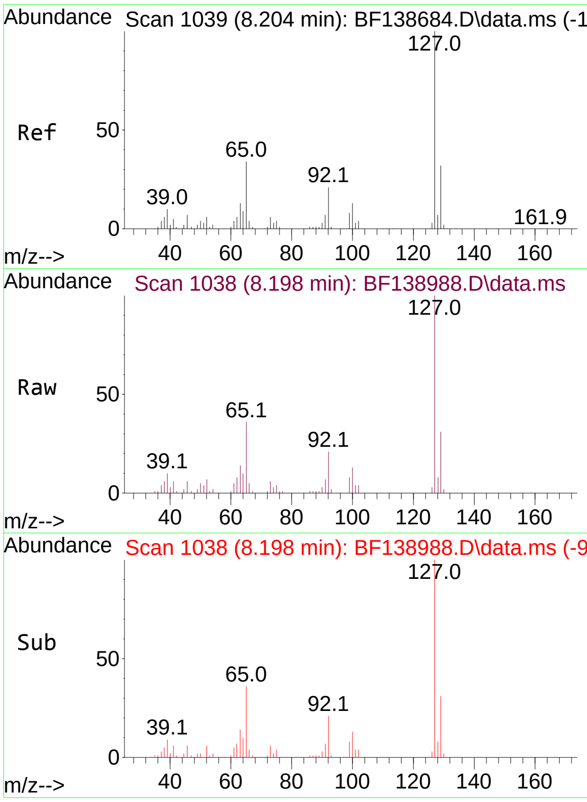

```
#32
Benzoic acid
Concen:   29.736 ng  m
RT:   7.928 min  Scan# 992
Delta R.T.  0.024 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:122 Resp:   45176
Ion  Ratio  Lower  Upper
122  100
105  129.6  106.7  146.7
 77  108.4   81.1  121.1
```



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

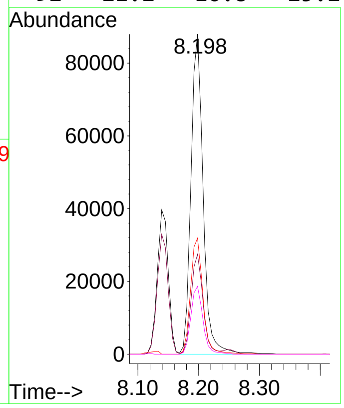
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

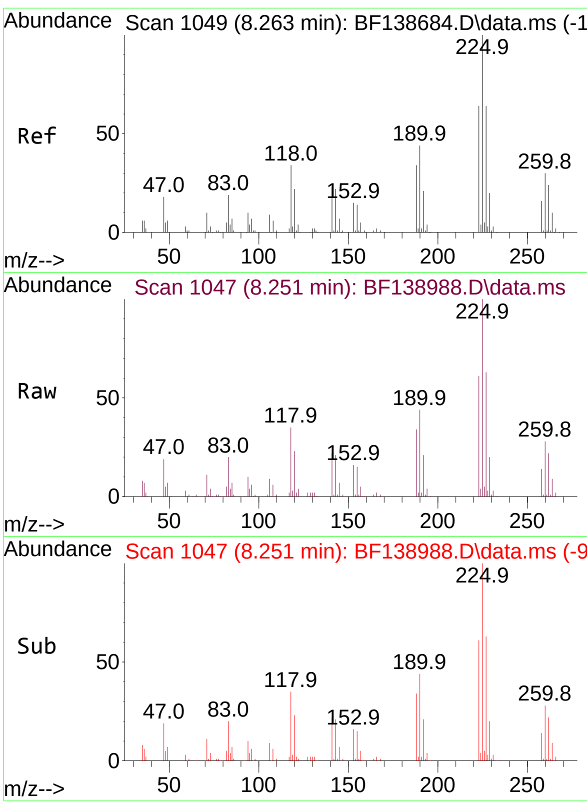


#33
4-Chloroaniline
Concen: 38.457 ng
RT: 8.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:127 Resp: 12257

Ion	Ratio	Lower	Upper
127	100		
129	31.2	25.9	38.9
65	36.3	27.6	41.4
92	21.2	16.8	25.2

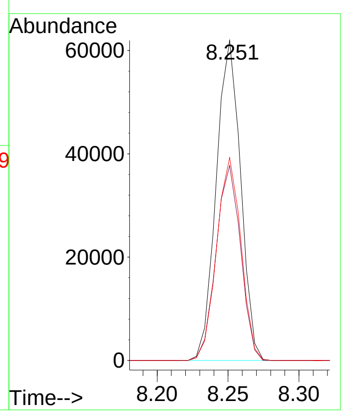




#34
Hexachlorobutadiene
Concen: 42.681 ng
RT: 8.251 min Scan# 1047
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

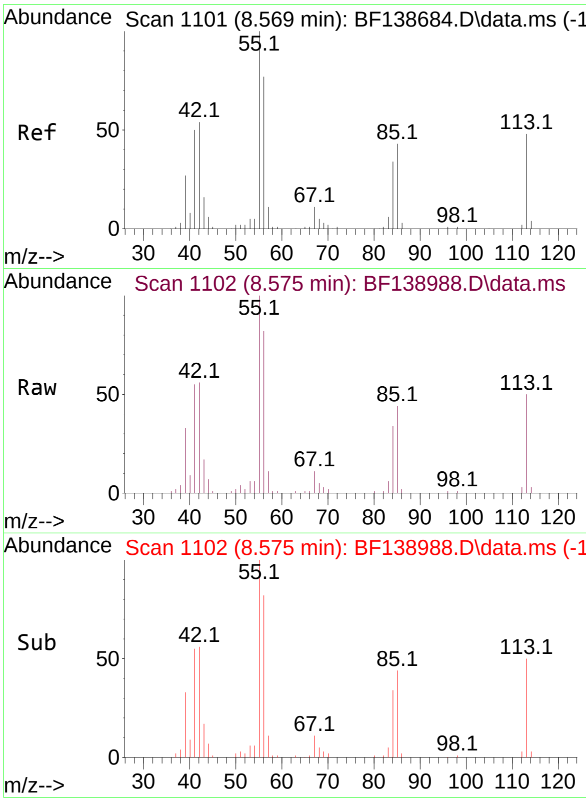
Tgt Ion:225 Resp: 74090

Ion	Ratio	Lower	Upper
225	100		
223	60.9	51.2	76.8
227	63.4	51.1	76.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

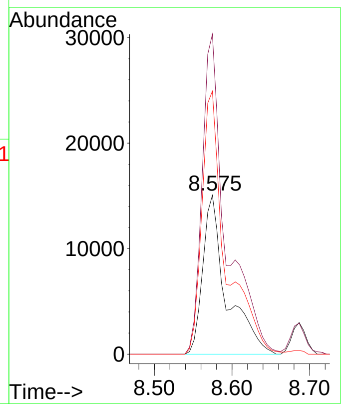
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

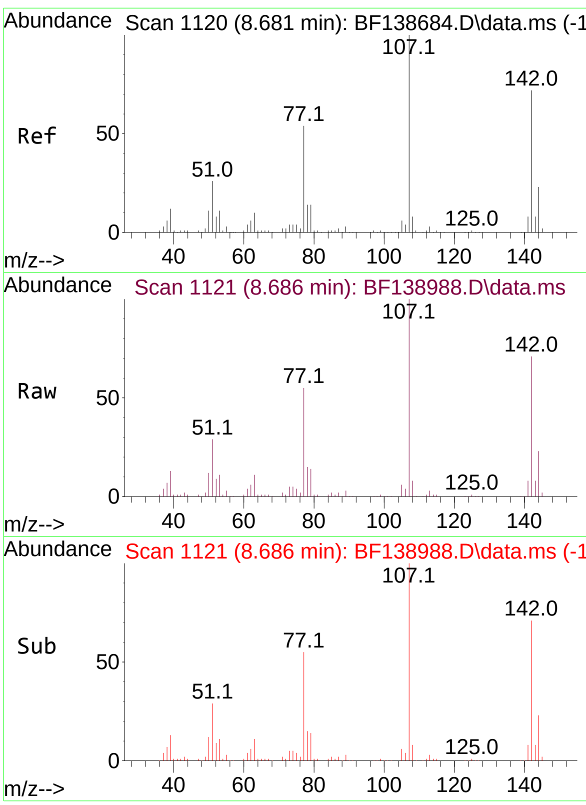


#35
Caprolactam
Concen: 43.423 ng m
RT: 8.575 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:113 Resp: 32178

Ion	Ratio	Lower	Upper
113	100		
55	201.3	186.7	226.7
56	165.5	138.9	178.9

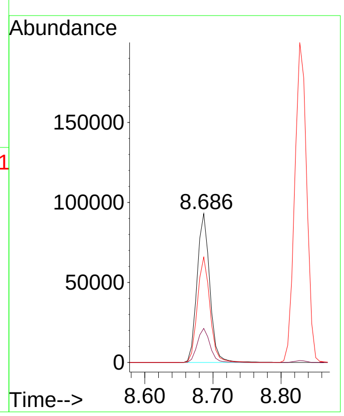


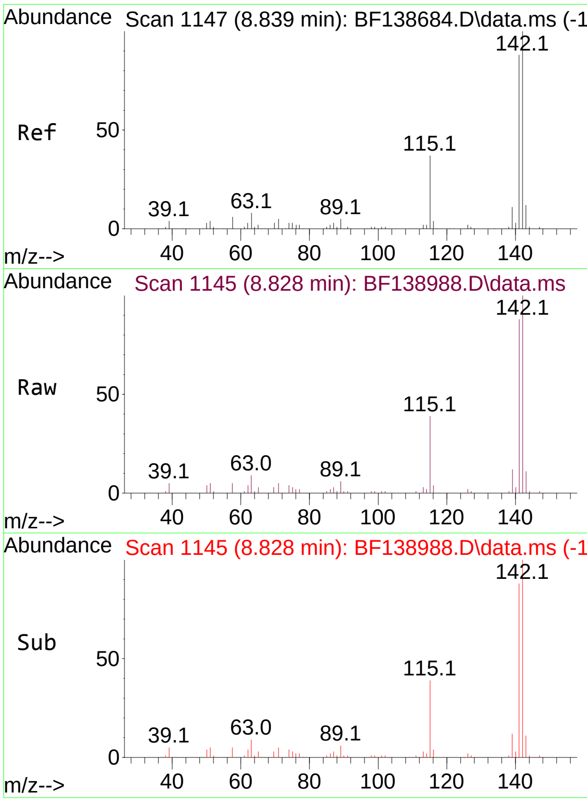


#36
4-Chloro-3-methylphenol
Concen: 42.436 ng
RT: 8.686 min Scan# 1121
Delta R.T. 0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:107 Resp: 120444

Ion	Ratio	Lower	Upper
107	100		
144	22.9	18.2	27.2
142	70.7	57.4	86.2





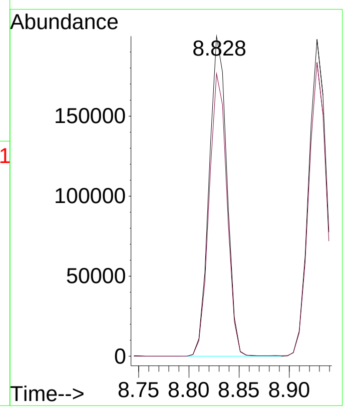
#37
2-Methylnaphthalene
Concen: 40.974 ng
RT: 8.828 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

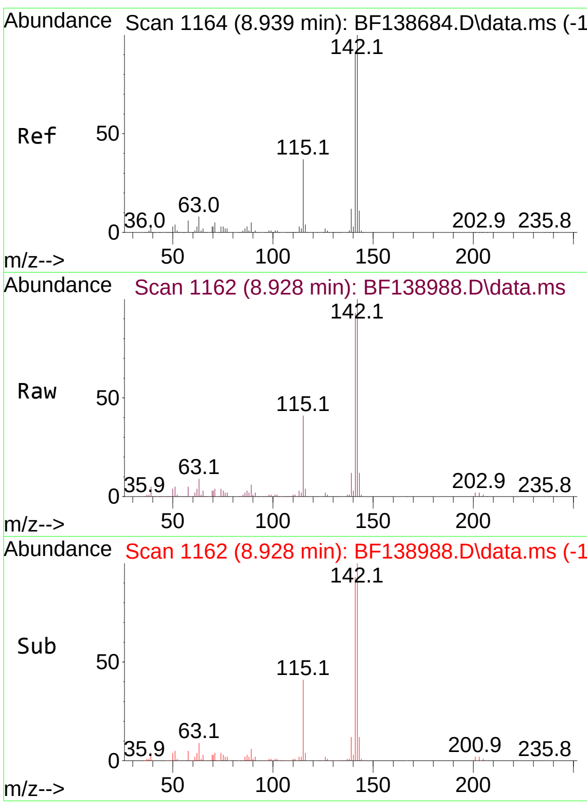
Tgt Ion:142 Resp: 24571

Ion	Ratio	Lower	Upper
142	100		
141	88.3	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

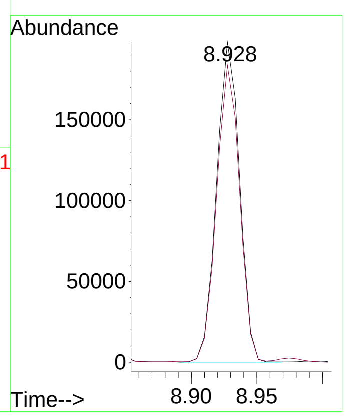


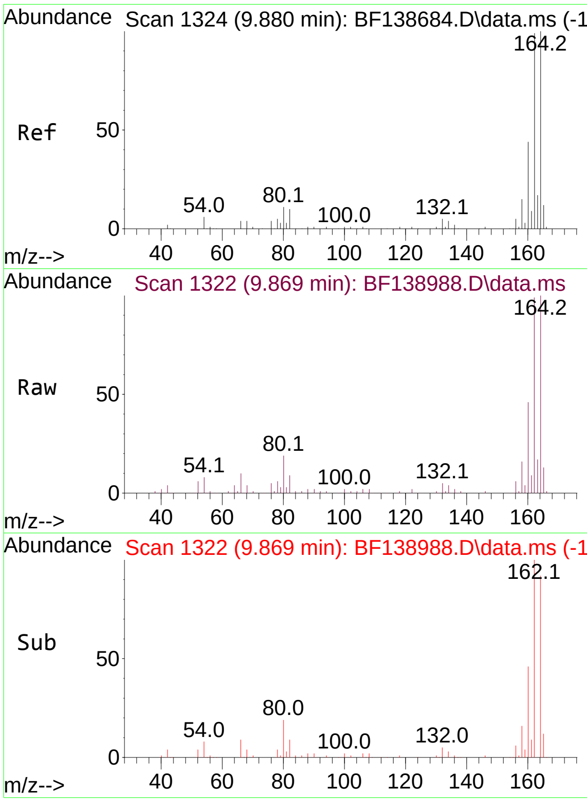


#38
1-Methylnaphthalene
Concen: 41.175 ng
RT: 8.928 min Scan# 1162
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:142 Resp: 241962

Ion	Ratio	Lower	Upper
142	100		
141	92.7	73.1	109.7





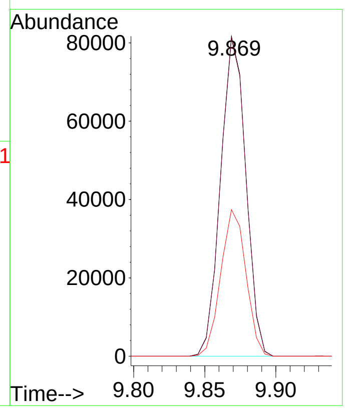
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

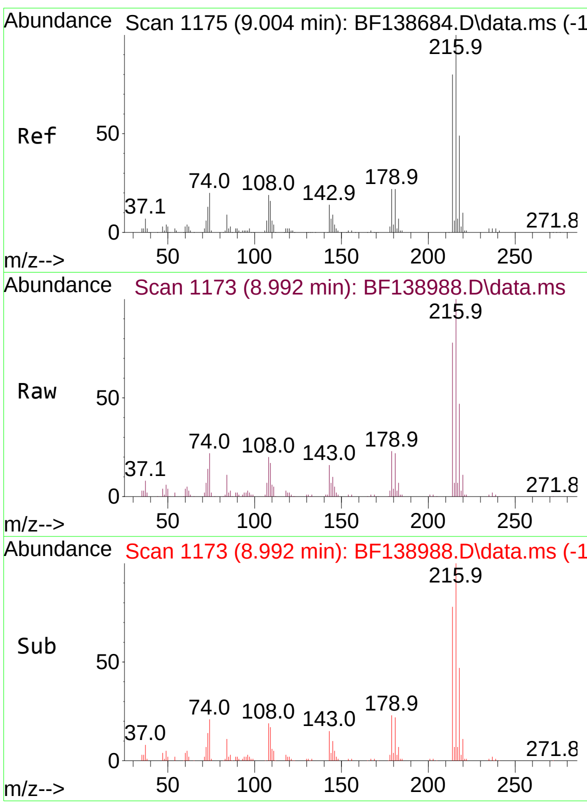
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 10075

Ion	Ratio	Lower	Upper
164	100		
162	99.3	79.4	119.0
160	45.8	35.1	52.7

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

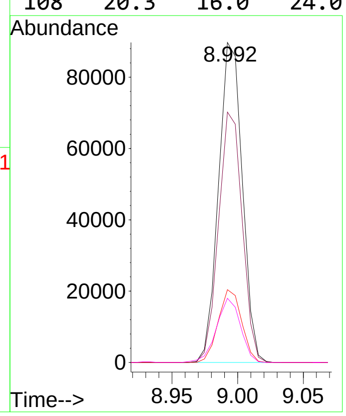




#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.349 ng
RT: 8.992 min Scan# 1173
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:216 Resp: 112930

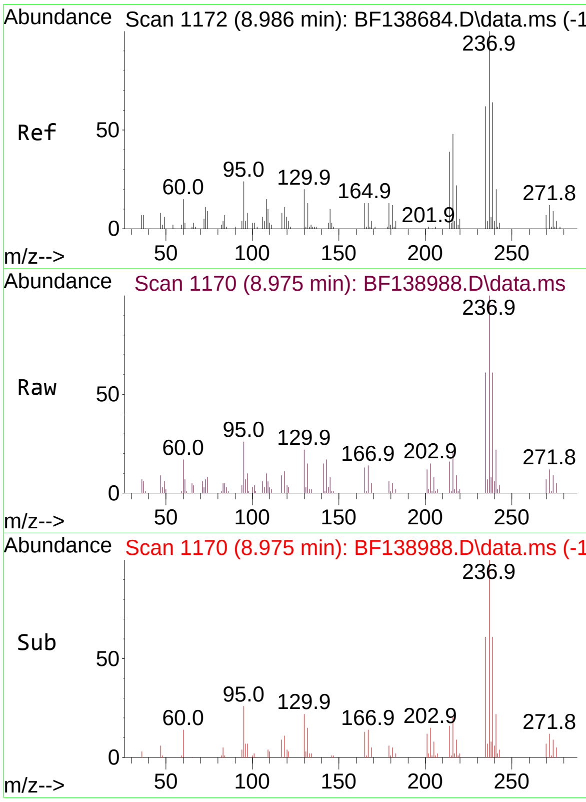
Ion	Ratio	Lower	Upper
216	100		
214	77.8	63.9	95.9
179	22.4	17.8	26.6
108	20.3	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

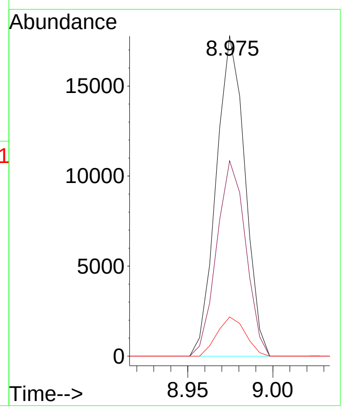
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

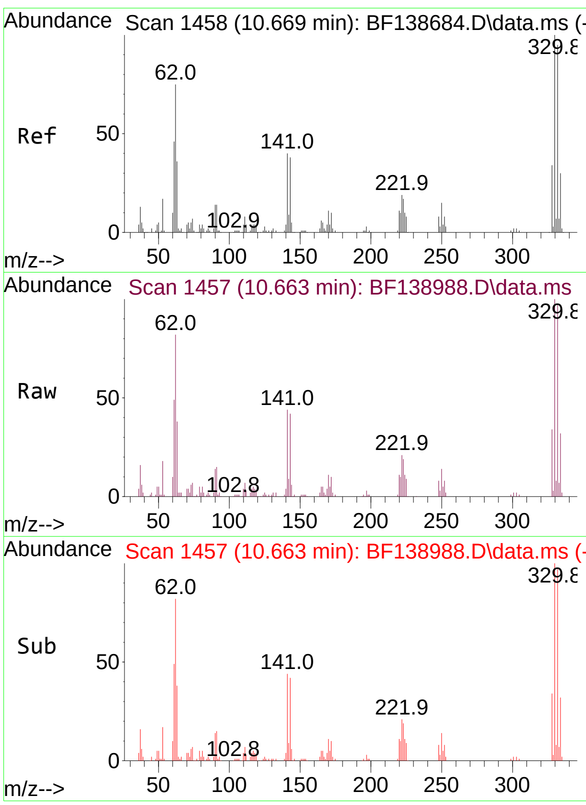


#41
Hexachlorocyclopentadiene
Concen: 32.674 ng
RT: 8.975 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:237 Resp: 2086

Ion	Ratio	Lower	Upper
237	100		
235	61.1	41.8	81.8
272	12.2	0.0	32.2

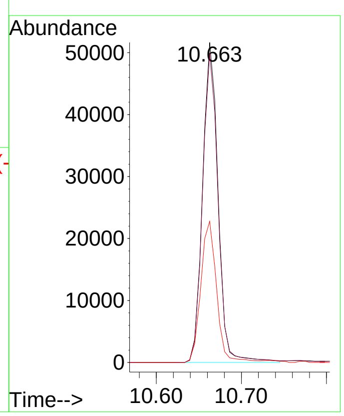


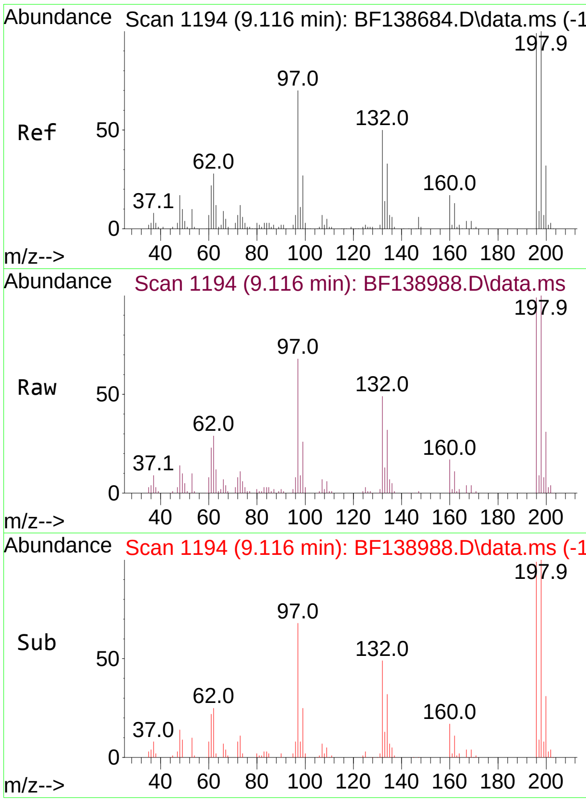


#42
2,4,6-Tribromophenol
Concen: 79.472 ng
RT: 10.663 min Scan# 1457
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:330 Resp: 65588

Ion	Ratio	Lower	Upper
330	100		
332	96.7	76.4	114.6
141	44.7	31.1	46.7

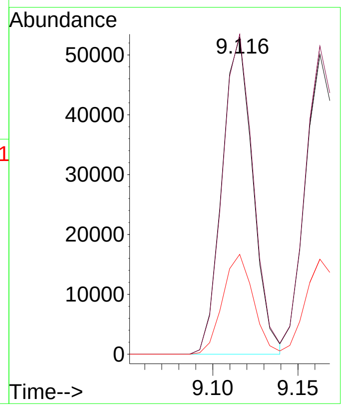




#43
2,4,6-Trichlorophenol
Concen: 39.096 ng
RT: 9.116 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:196 Resp: 6671

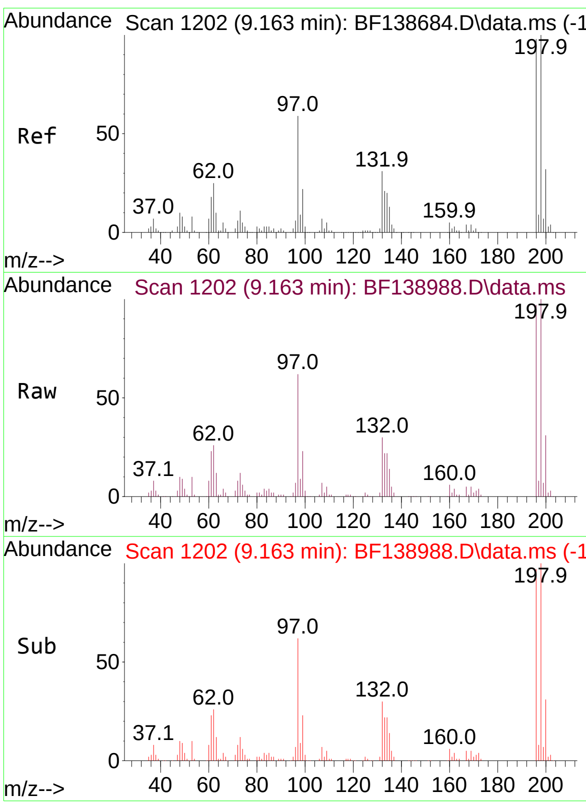
Ion	Ratio	Lower	Upper
196	100		
198	100.9	80.5	120.7
200	31.5	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

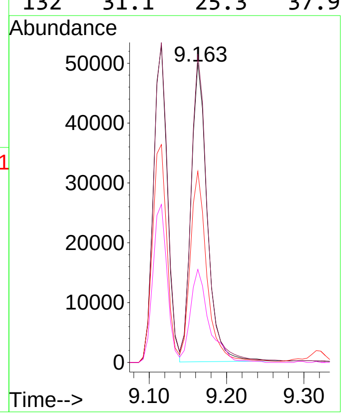
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

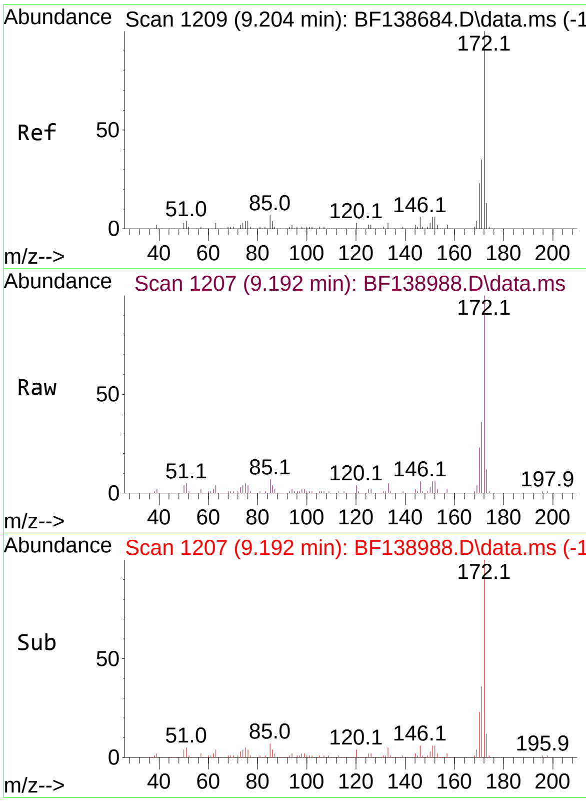


#44
2,4,5-Trichlorophenol
Concen: 38.990 ng
RT: 9.163 min Scan# 1202
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:196 Resp: 72737

Ion	Ratio	Lower	Upper
196	100		
198	102.8	81.2	121.8
97	63.7	47.8	71.6
132	31.1	25.3	37.9





#45
2-Fluorobiphenyl
Concen: 82.676 ng
RT: 9.192 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

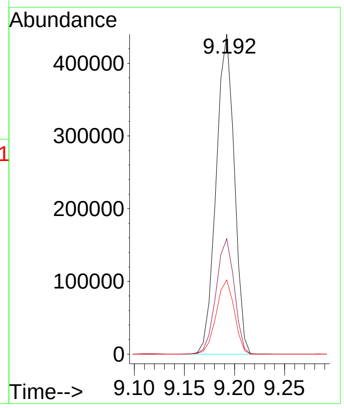
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

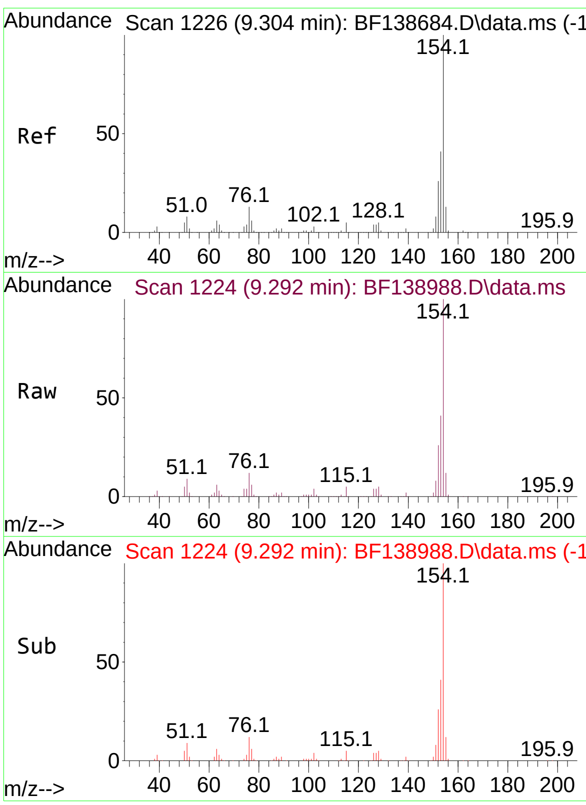
Tgt Ion:172 Resp: 55440

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.3	42.5
170	23.2	18.8	28.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

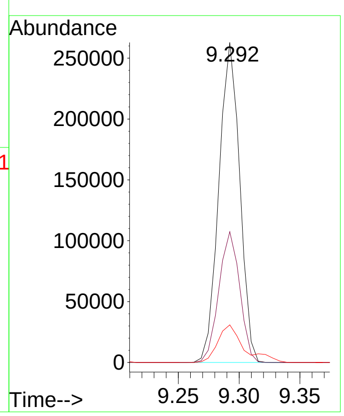




#46
1,1'-Biphenyl
Concen: 39.920 ng
RT: 9.292 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:154 Resp: 314999

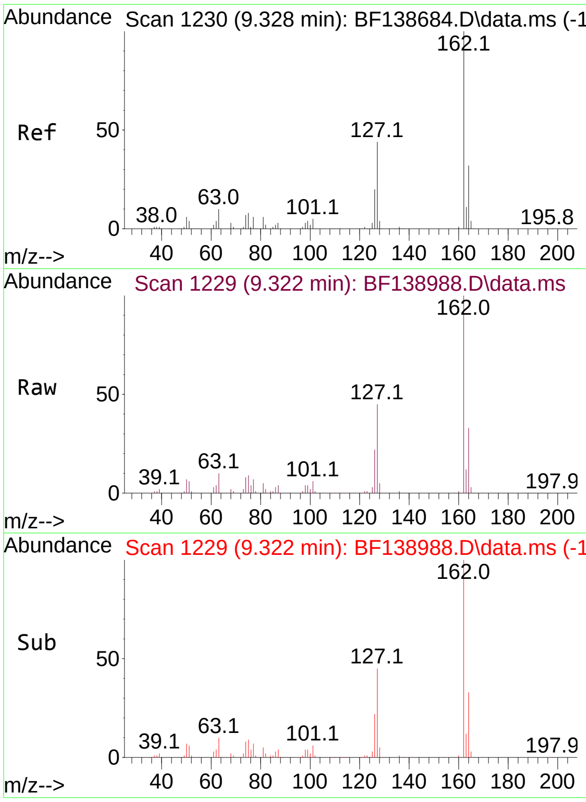
Ion	Ratio	Lower	Upper
154	100		
153	40.9	20.8	60.8
76	11.8	0.0	32.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

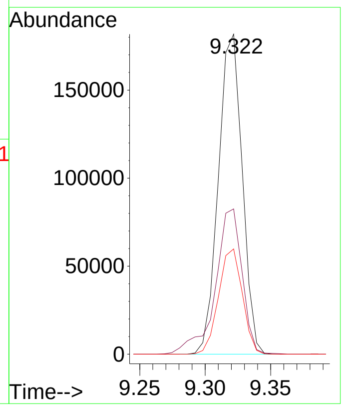
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

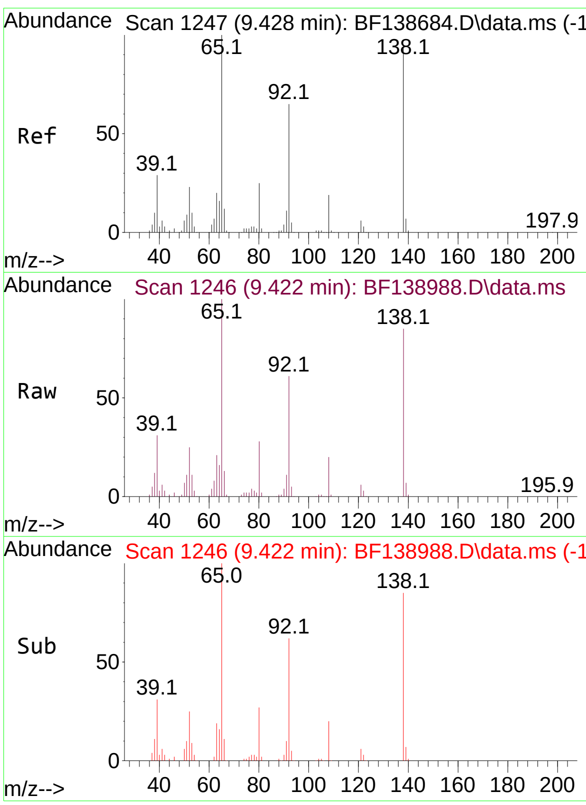


#47
2-Chloronaphthalene
Concen: 39.241 ng
RT: 9.322 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:162 Resp: 23029

Ion	Ratio	Lower	Upper
162	100		
127	45.4	35.4	53.2
164	32.9	25.6	38.4

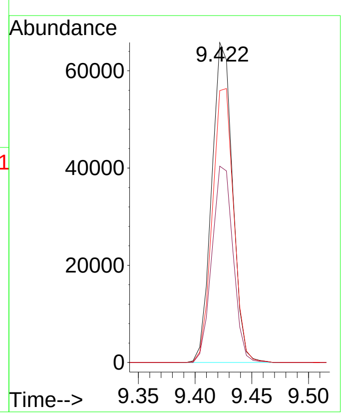




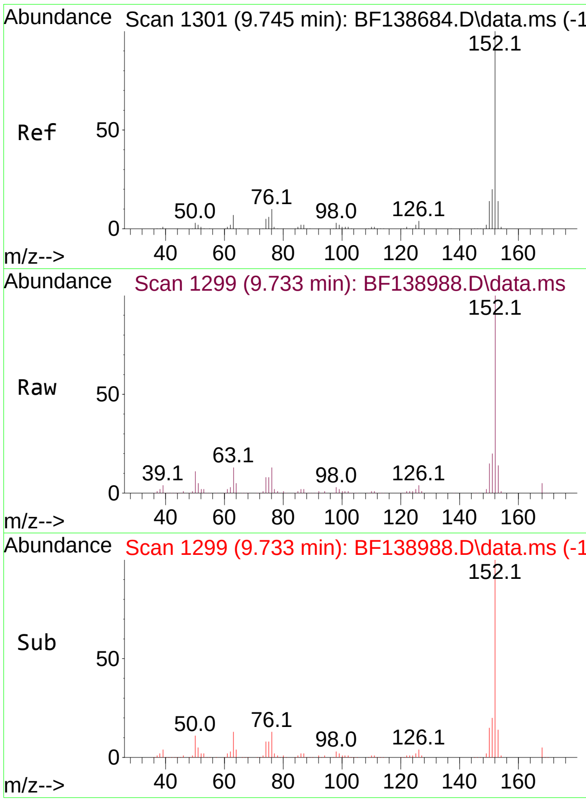
#48
2-Nitroaniline
Concen: 42.361 ng
RT: 9.422 min Scan# 1246
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 65 Resp: 84279

Ion	Ratio	Lower	Upper
65	100		
92	61.3	52.0	78.0
138	84.9	76.2	114.4



Sample Results: **BF138988.D**

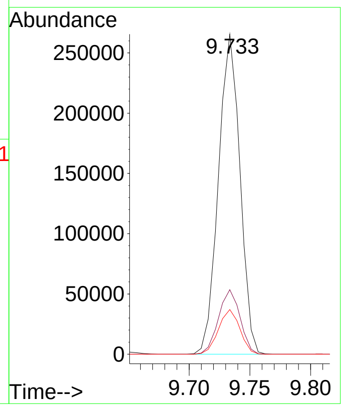


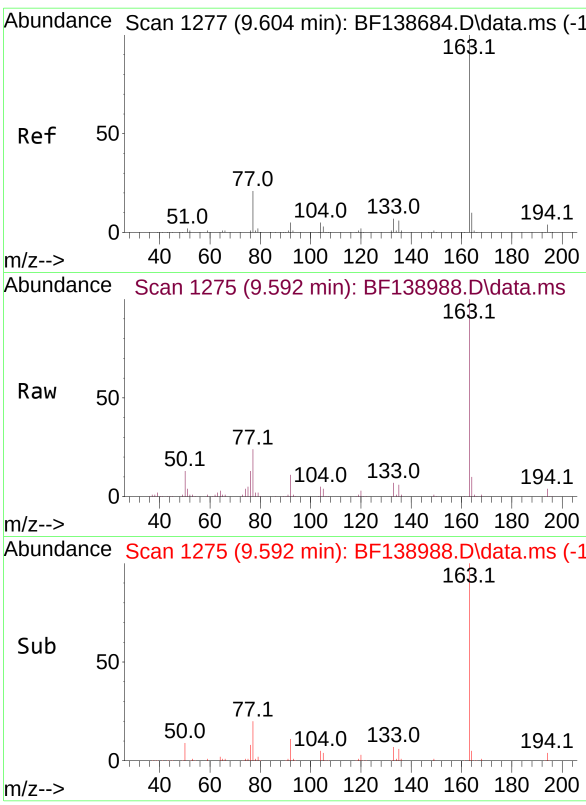

```
#49
Acenaphthylene
Concen:   39.371 ng
RT:   9.733 min  Scan# 1
Delta R.T.   -0.012 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:152 Resp:  32770
Ion  Ratio  Lower  Upper
152  100
151   20.1   16.0   24.0
153   14.0   11.0   16.4
```

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

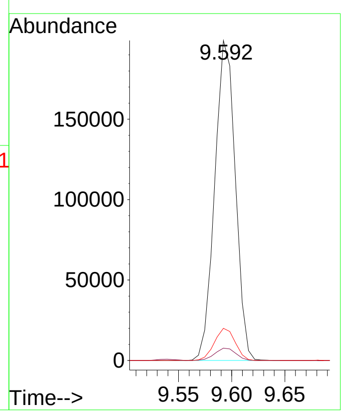
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024





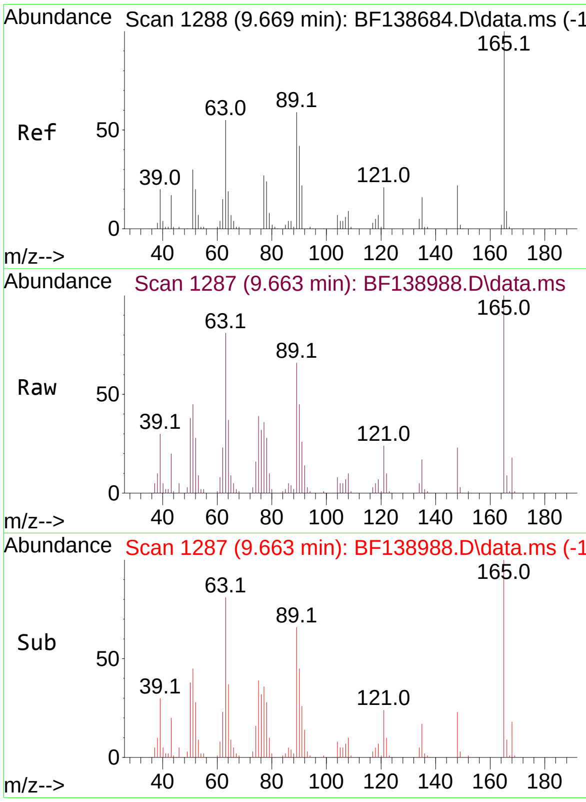

```
#50
Dimethylphthalate
Concen:   41.594 ng
RT:   9.592 min  Scan# 1275
Delta R.T.   -0.012 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:163 Resp:  267963
Ion  Ratio  Lower  Upper
163  100
194    3.9    3.1    4.7
164   10.1    7.8   11.8
```



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

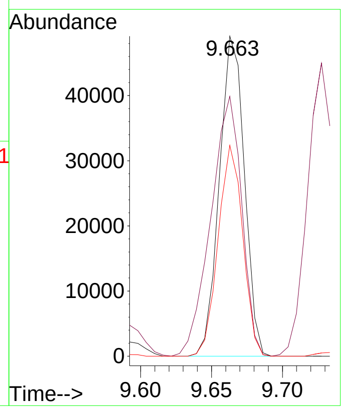
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

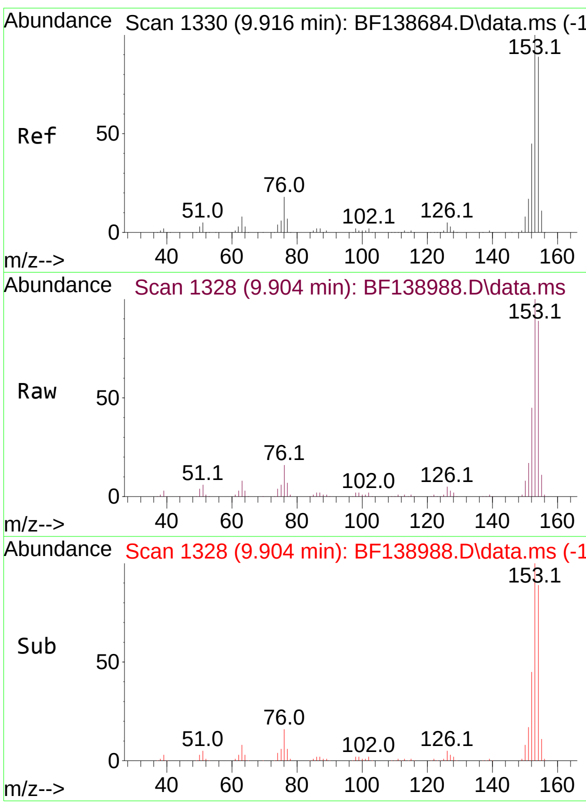


#51
2,6-Dinitrotoluene
Concen: 41.487 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:165 Resp: 6031

Ion	Ratio	Lower	Upper
165	100		
63	81.2	52.0	78.0
89	65.9	47.0	70.6

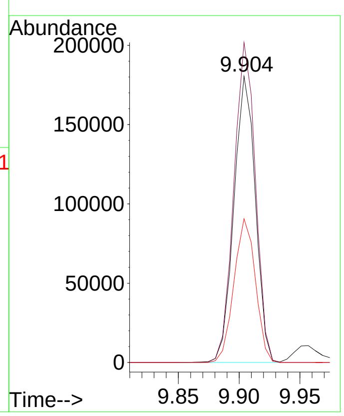


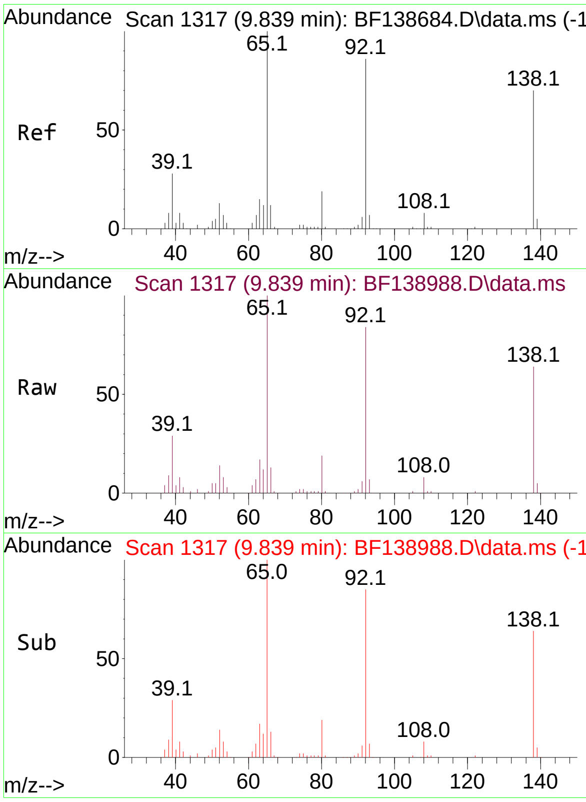


#52
Acenaphthene
Concen: 39.648 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:154 Resp: 221840

Ion	Ratio	Lower	Upper
154	100		
153	111.8	89.9	134.9
152	50.2	40.6	60.8

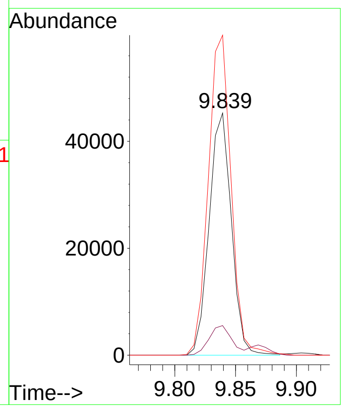




#53
3-Nitroaniline
Concen: 38.446 ng
RT: 9.839 min   Scan# 1
Delta R.T.   -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024   12:03

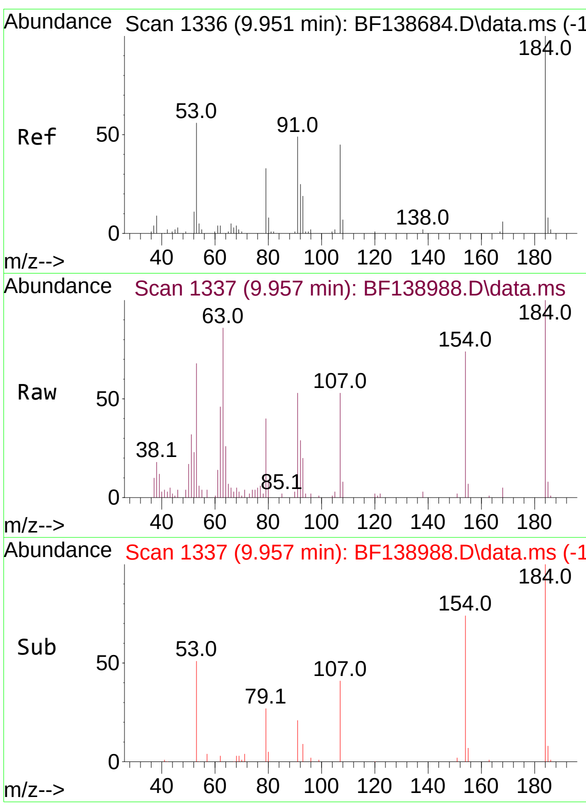
Tgt Ion:138 Resp: 5778

Ion	Ratio	Lower	Upper
138	100		
108	12.2	9.1	13.7
92	132.2	98.7	148.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

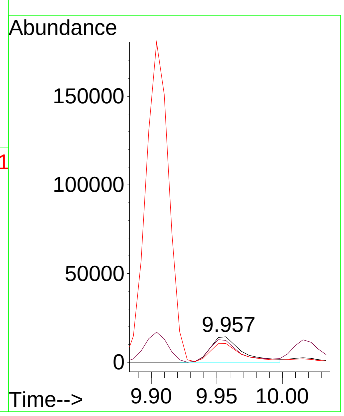
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

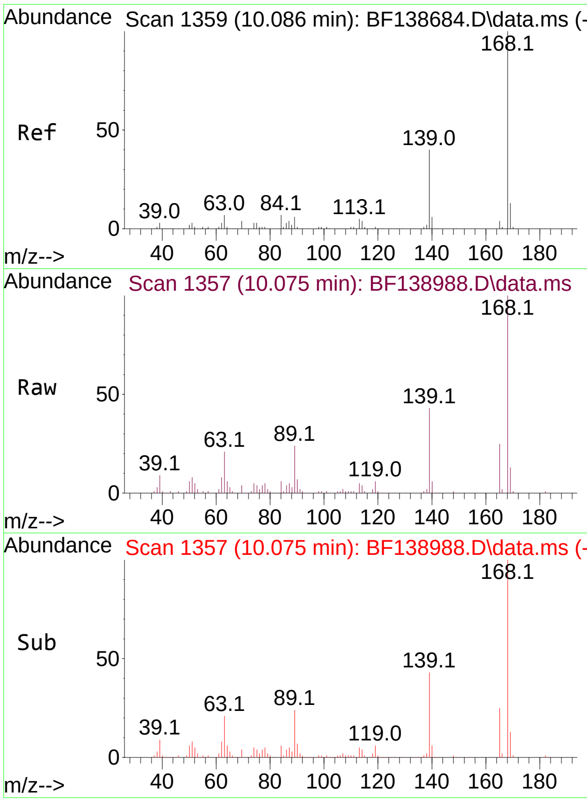


#54
2,4-Dinitrophenol
Concen: 36.052 ng
RT: 9.957 min   Scan# 1337
Delta R.T.   0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024   12:03

Tgt Ion:184 Resp: 24129

Ion	Ratio	Lower	Upper
184	100		
63	85.8	57.5	86.3
154	73.9	51.7	77.5

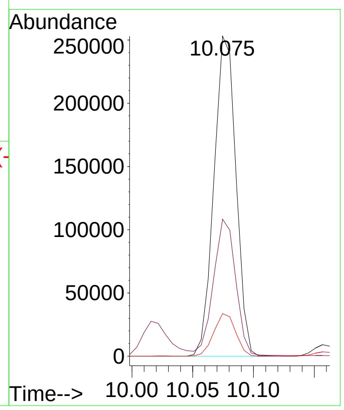




#55
Dibenzofuran
Concen: 40.425 ng
RT: 10.075 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:168 Resp: 31928

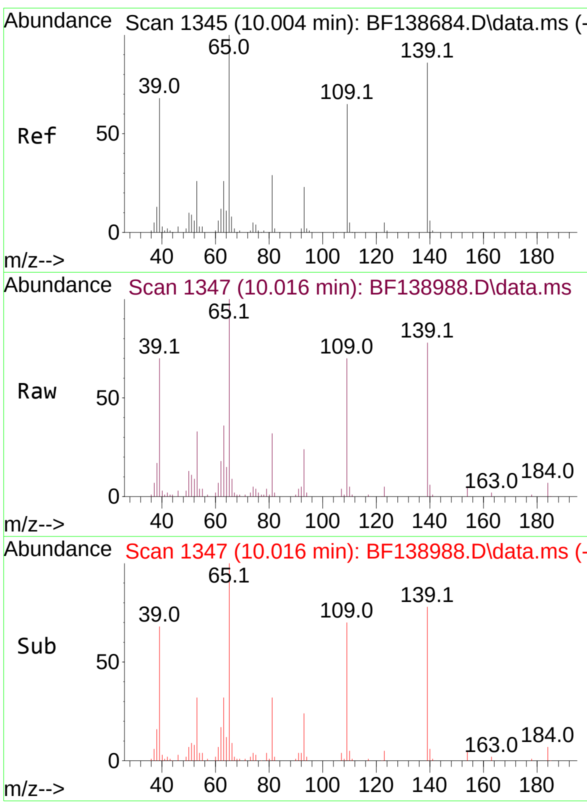
Ion	Ratio	Lower	Upper
168	100		
139	42.8	32.6	49.0
169	13.3	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

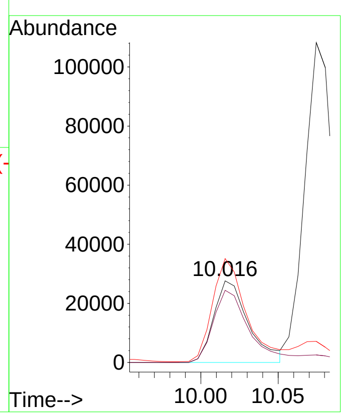
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024



#56
4-Nitrophenol
Concen: 47.672 ng
RT: 10.016 min Scan# 1347
Delta R.T. 0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:139 Resp: 43088

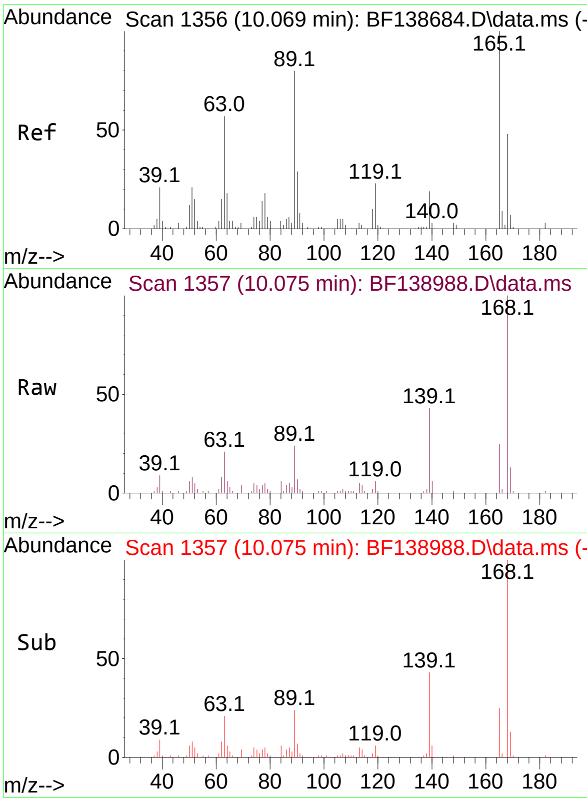
Ion	Ratio	Lower	Upper
139	100		
109	88.6	55.5	95.5
65	127.4	96.7	136.7



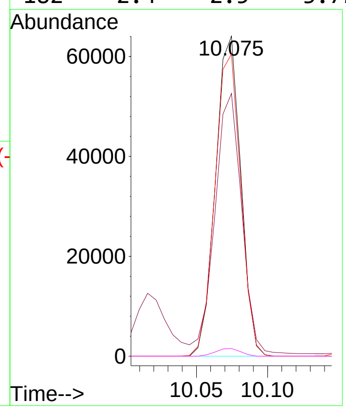
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

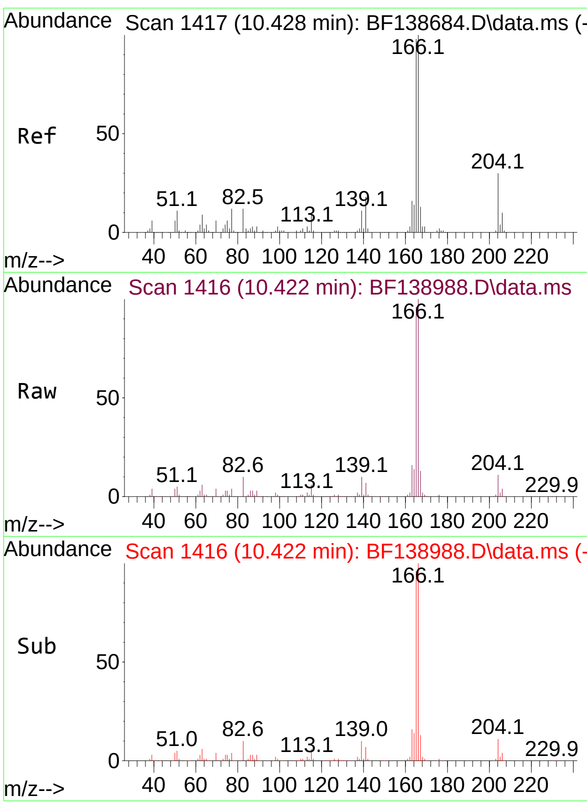
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

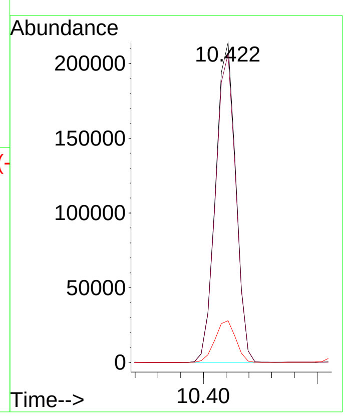



```
#57
2,4-Dinitrotoluene
Concen:   42.640 ng
RT:  10.075 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:165 Resp:   7909
Ion  Ratio  Lower  Upper
165  100
 63   82.1   46.3   69.5#
 89   94.4   64.2   96.4
182    2.4    2.5    3.7#
```

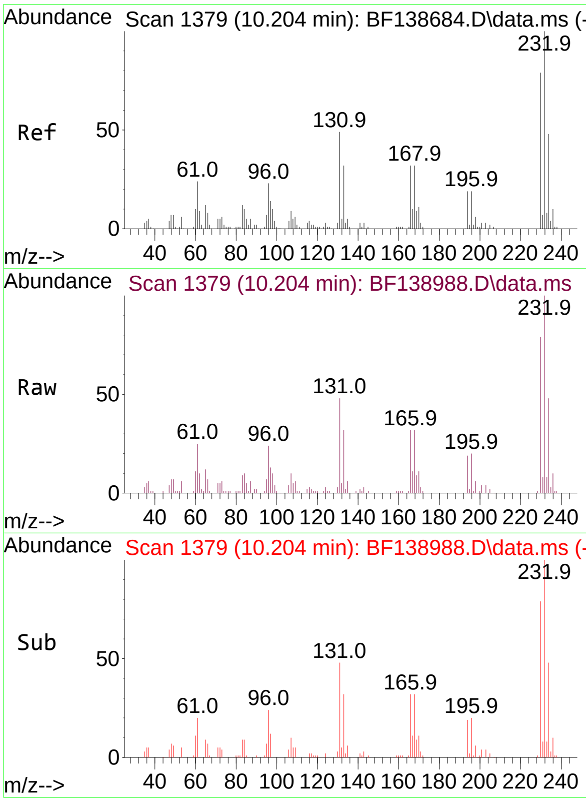





```
#58
Fluorene
Concen:   42.082 ng
RT:  10.422 min  Scan# 1416
Delta R.T.  -0.006 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:166 Resp:  264679
Ion  Ratio  Lower  Upper
166  100
165   96.4   78.4  117.6
167   13.1   10.6   16.0
```



Sample Results: **BF138988.D**



#59
2,3,4,6-Tetrachlorophenol
Concen: 38.824 ng
RT: 10.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

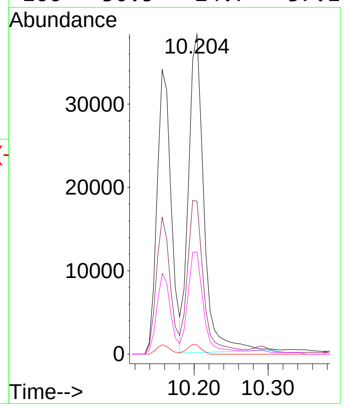
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

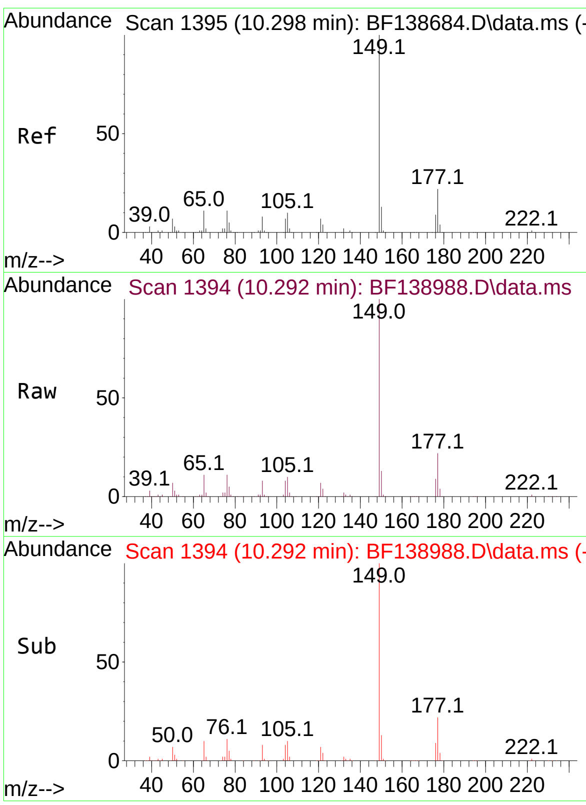
Tgt Ion:232 Resp: 5537

Ion	Ratio	Lower	Upper
232	100		
131	50.0	37.0	55.4
130	2.8	2.0	3.0
166	30.5	24.7	37.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

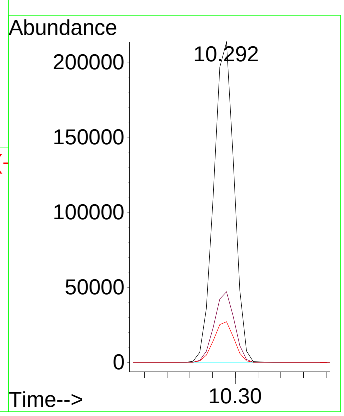


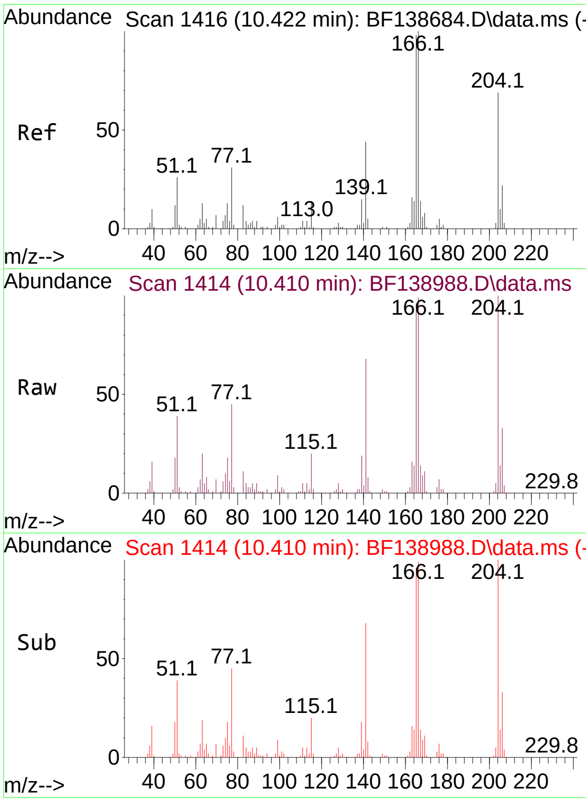


#60
Diethylphthalate
Concen: 43.665 ng
RT: 10.292 min Scan# 1394
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

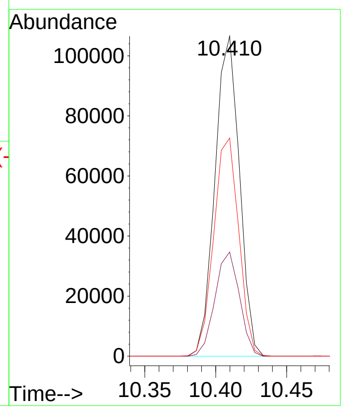
Tgt Ion:149 Resp: 266725

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.8	26.8
150	12.6	10.1	15.1





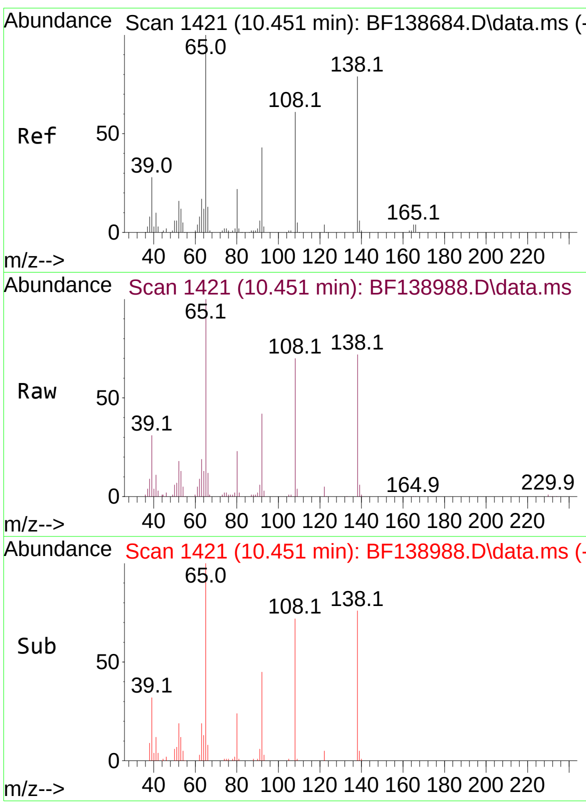

```
#61
4-Chlorophenyl-phenylether
Concen:   41.474 ng
RT:  10.410 min  Scan# 14
Delta R.T.   -0.012 min
Lab File:    BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:204 Resp:  12829
Ion  Ratio  Lower  Upper
204  100
206   32.5   26.1   39.1
141   68.2   51.4   77.0
```



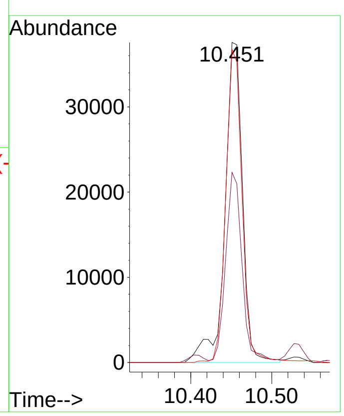
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

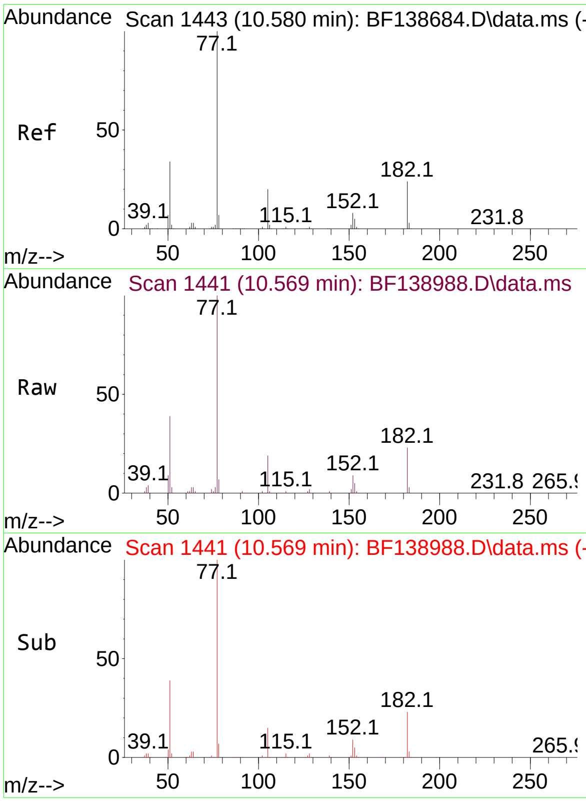
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024




```
#62
4-Nitroaniline
Concen:   39.940 ng
RT:  10.451 min  Scan# 1421
Delta R.T.   -0.000 min
Lab File:    BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:138 Resp:   57048
Ion  Ratio  Lower  Upper
138  100
 92   59.4   34.2   74.2
108   97.8   56.2   96.2#
```

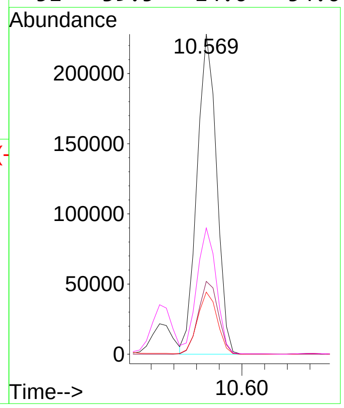




#63
Azobenzene
Concen: 40.516 ng
RT: 10.569 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 77 Resp: 274496

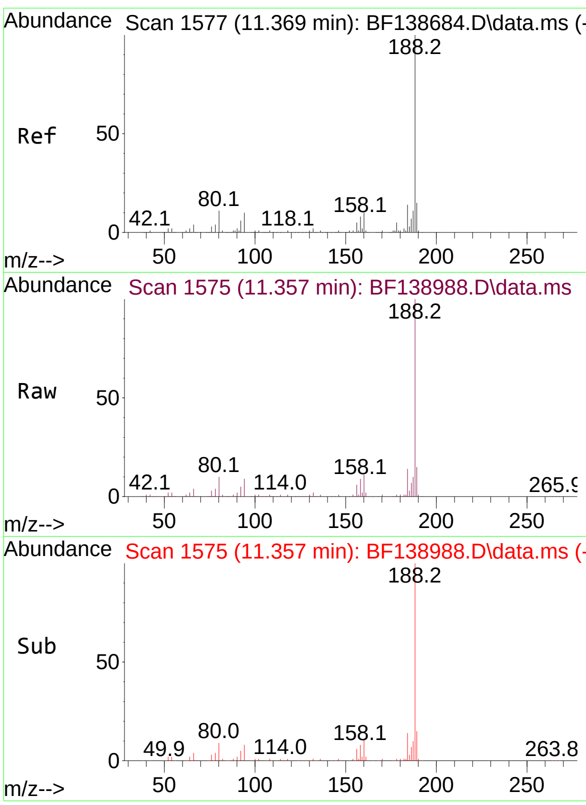
Ion	Ratio	Lower	Upper
77	100		
182	22.7	3.4	43.4
105	19.4	0.2	40.2
51	39.5	14.6	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

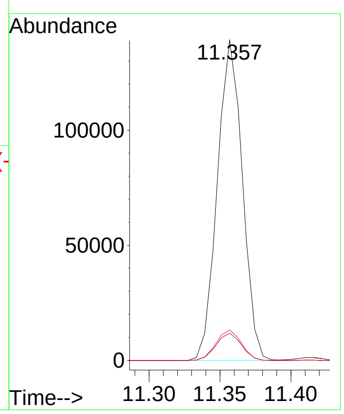
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

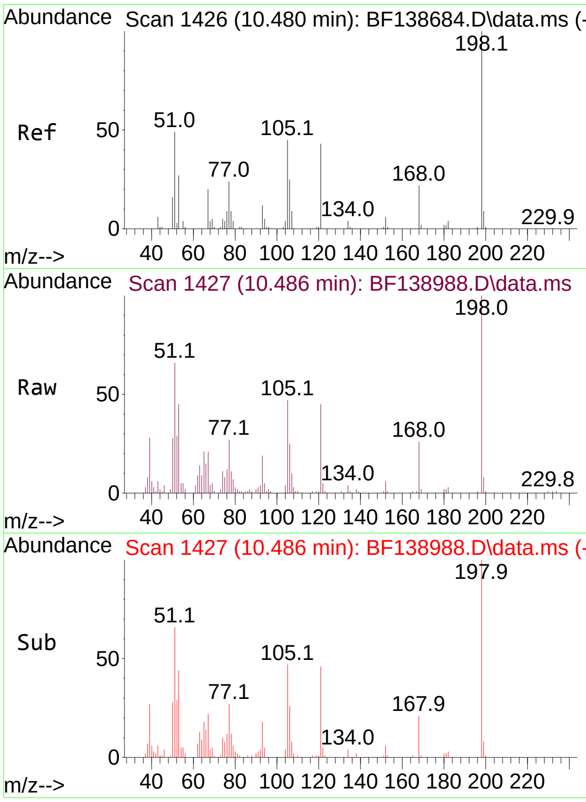


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1575
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

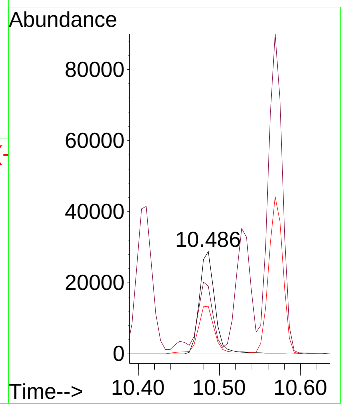
Tgt Ion:188 Resp: 170882

Ion	Ratio	Lower	Upper
188	100		
94	8.5	7.6	11.4
80	9.6	8.6	12.8





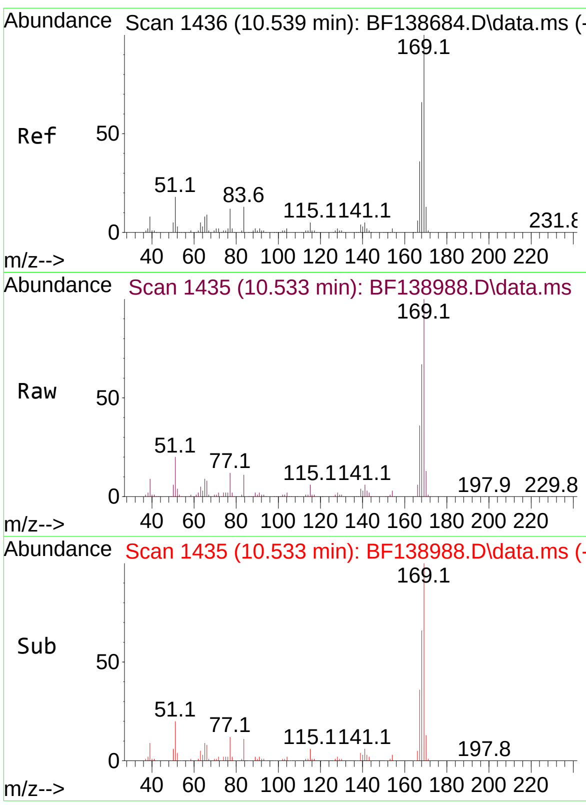

```
#65
4,6-Dinitro-2-methylphenol
Concen:   36.964 ng
RT:  10.486 min  Scan# 14
Delta R.T.  0.006 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:198 Resp:   3853
Ion  Ratio  Lower  Upper
198  100
 51   66.3   39.9   79.9
105   46.5   26.1   66.1
```



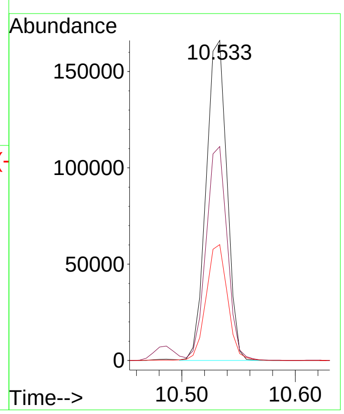
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

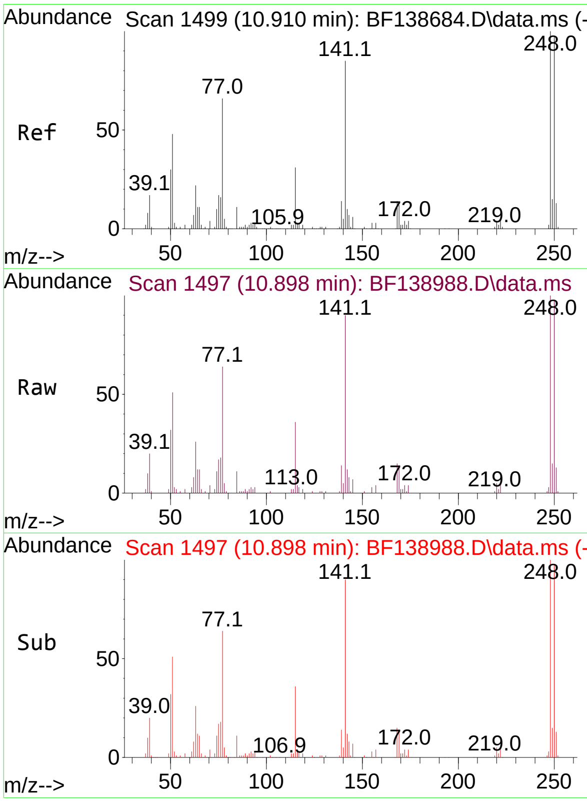
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024




```
#66
n-Nitrosodiphenylamine
Concen:   39.795 ng
RT:  10.533 min  Scan# 1435
Delta R.T.  -0.006 min
Lab File:   BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:169 Resp:  212563
Ion  Ratio  Lower  Upper
169  100
168   66.8   53.0   79.6
167   36.2   29.0   43.6
```



Sample Results: **BF138988.D**



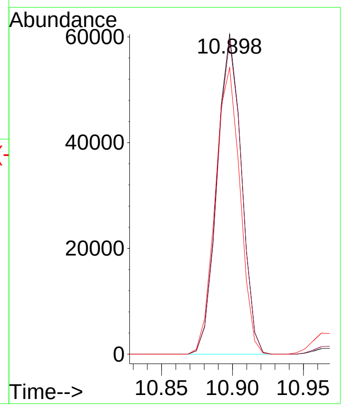
#67
4-Bromophenyl-phenylether
Concen: 39.102 ng
RT: 10.898 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

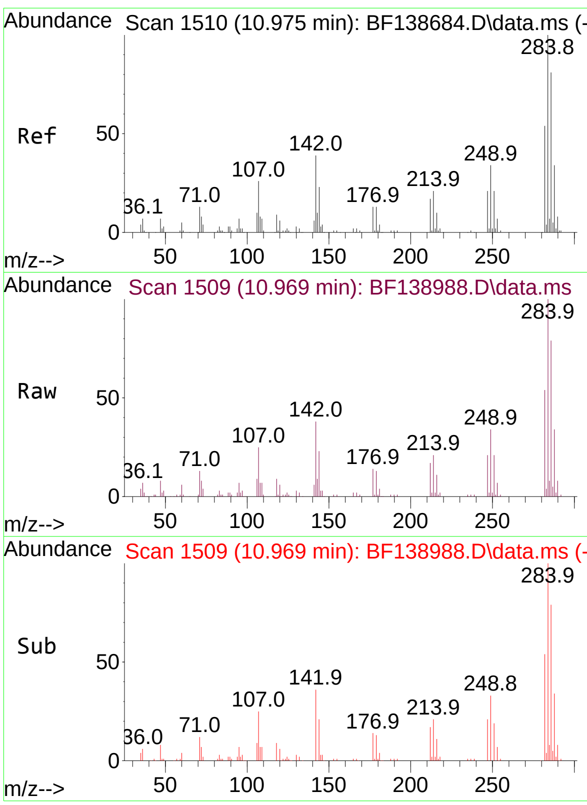
Tgt Ion:248 Resp: 72344

Ion	Ratio	Lower	Upper
248	100		
250	98.3	77.7	116.5
141	89.6	68.0	102.0

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

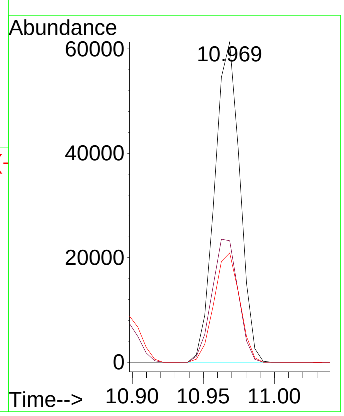




#68
Hexachlorobenzene
Concen: 39.584 ng
RT: 10.969 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:284 Resp: 75615

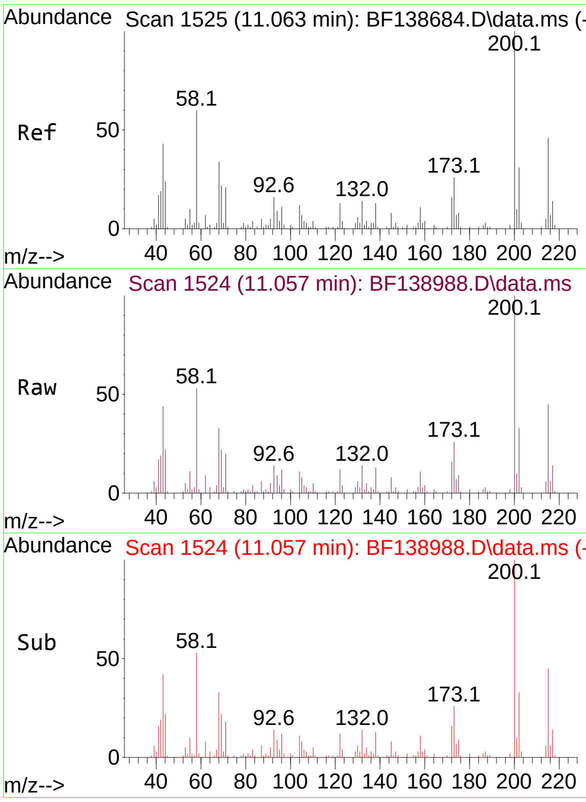
Ion	Ratio	Lower	Upper
284	100		
142	38.0	31.3	46.9
249	34.2	27.2	40.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

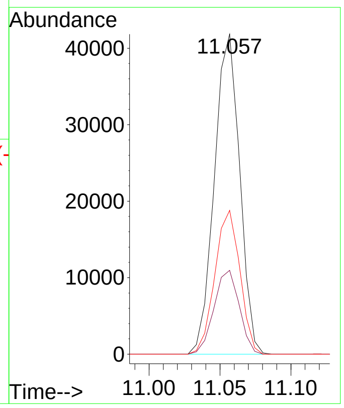
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

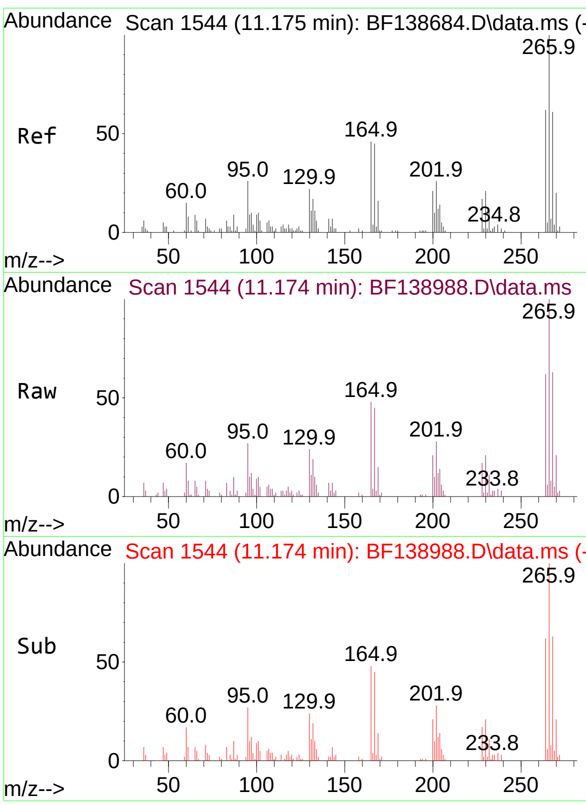


#69
Atrazine
Concen: 37.660 ng
RT: 11.057 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:200 Resp: 51899

Ion	Ratio	Lower	Upper
200	100		
173	26.2	6.0	46.0
215	45.0	26.1	66.1

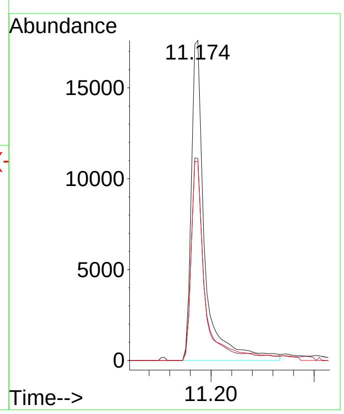




#70
Pentachlorophenol
Concen: 37.365 ng
RT: 11.174 min Scan# 1544
Delta R.T. -0.001 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:266 Resp: 32173

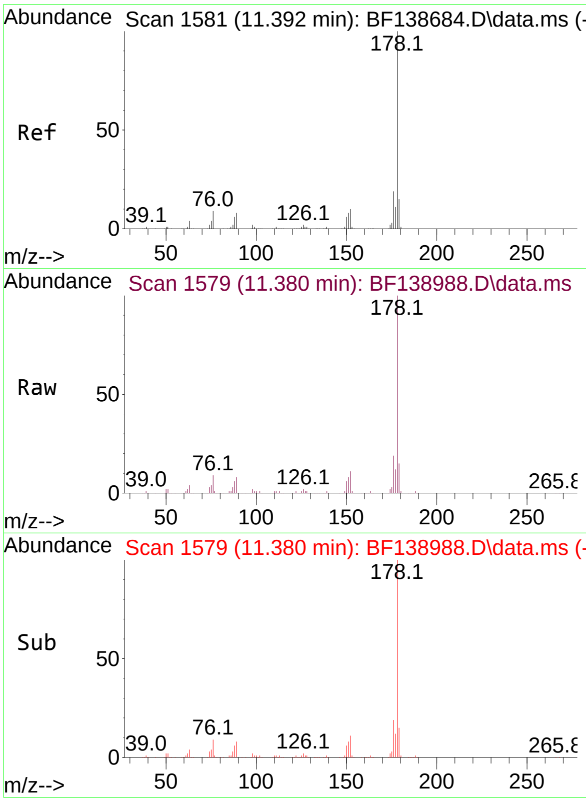
Ion	Ratio	Lower	Upper
266	100		
268	63.1	49.2	73.8
264	62.1	49.8	74.6



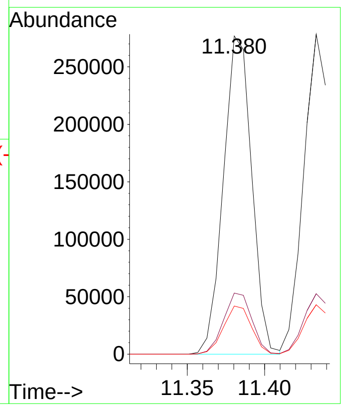
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

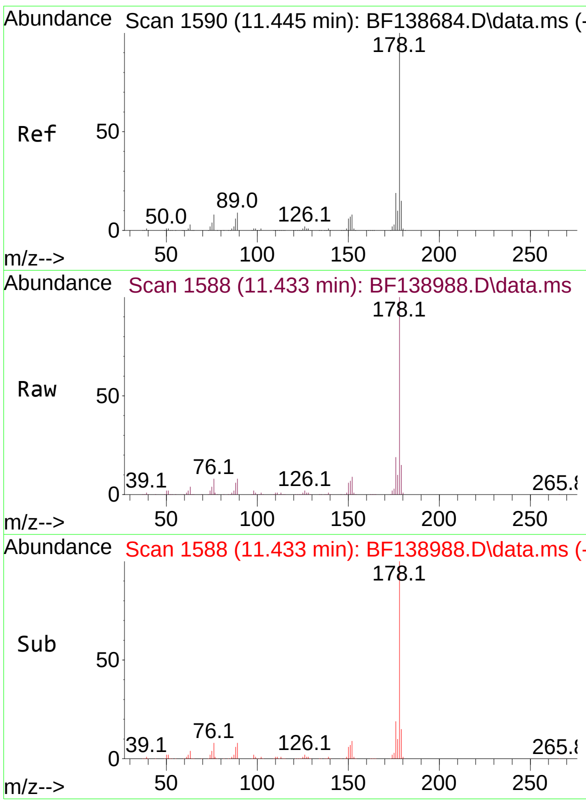
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

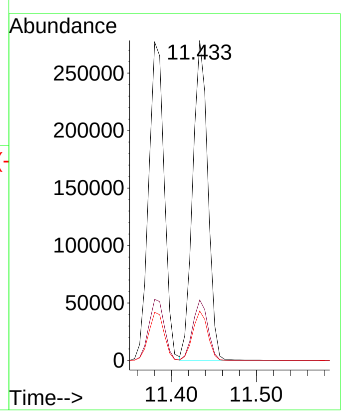


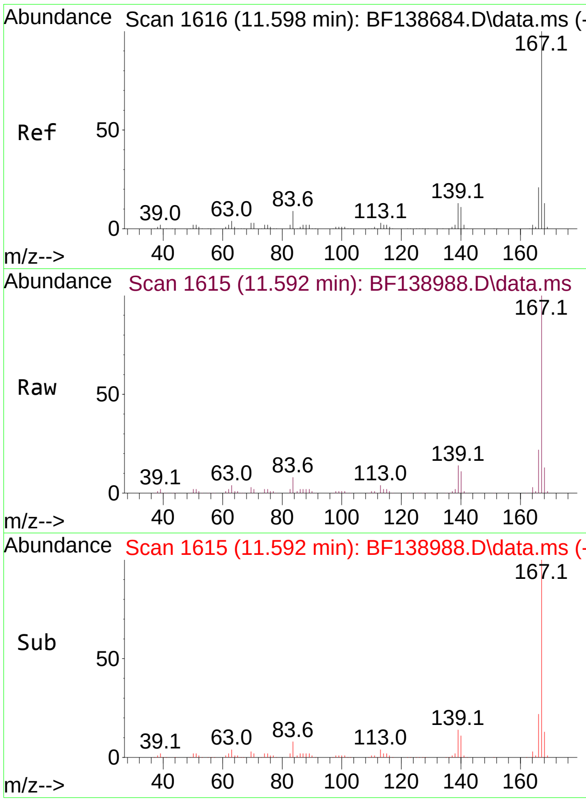

```
#71
Phenanthrene
Concen:   40.041 ng
RT:  11.380 min  Scan# 1
Delta R.T.   -0.012 min
Lab File:    BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:178 Resp:  35232
Ion  Ratio  Lower  Upper
178  100
176   19.2   15.4   23.0
179   15.1   12.2   18.2
```






```
#72
Anthracene
Concen:   39.749 ng
RT:  11.433 min  Scan# 1588
Delta R.T.   -0.012 min
Lab File:    BF138988.D
Acq: 14 Aug 2024  12:03

Tgt Ion:178 Resp:  344553
Ion  Ratio  Lower  Upper
178  100
176   18.9   14.9   22.3
179   15.4   12.4   18.6
```





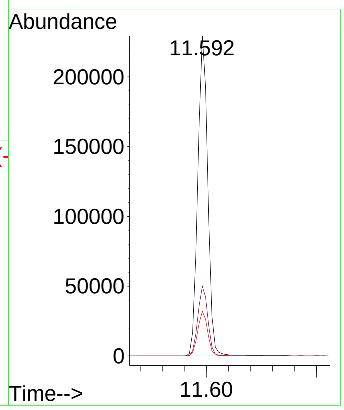
#73
Carbazole
Concen: 38.844 ng
RT: 11.592 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

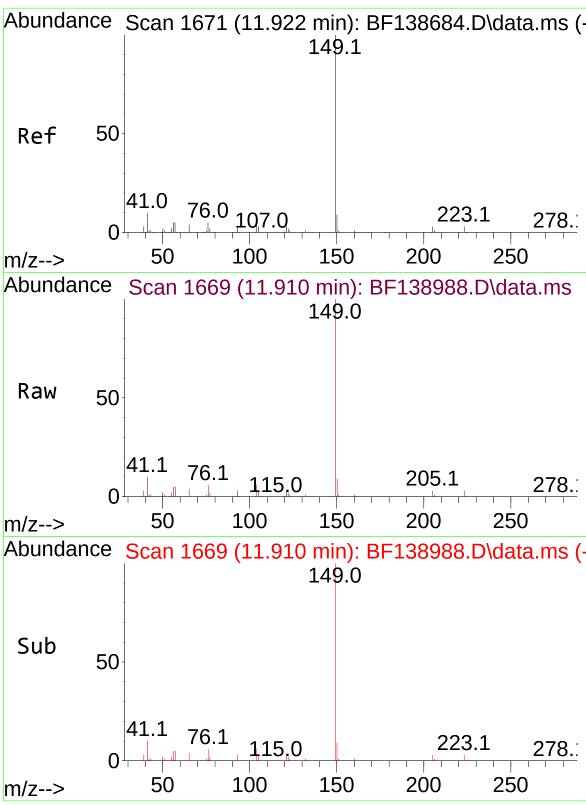
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 29049

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.2	25.8
139	13.9	10.6	16.0

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

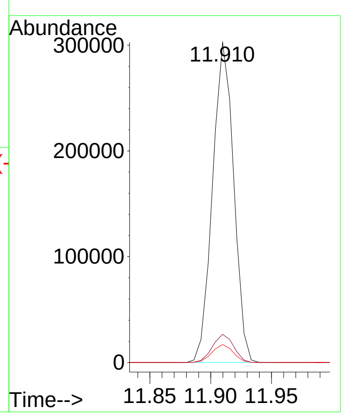


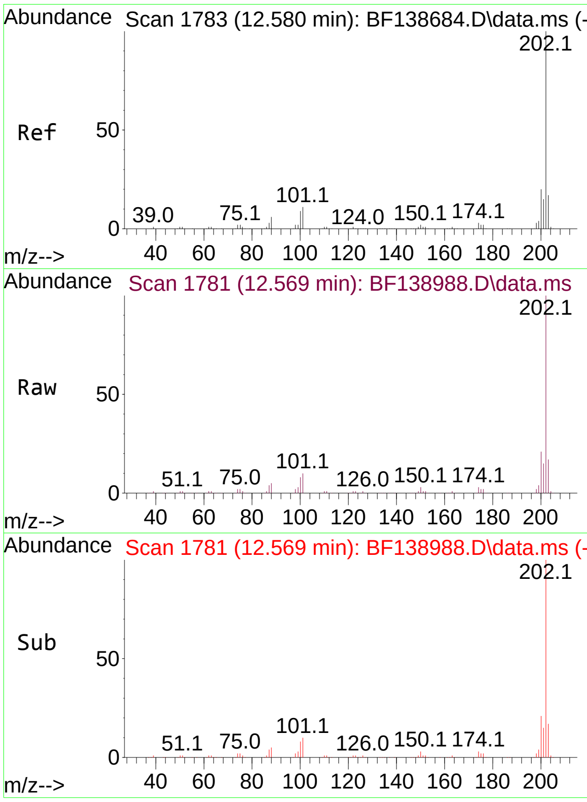


#74
Di-n-butylphthalate
Concen: 43.590 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:149 Resp: 366466

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.4	11.0
104	5.6	4.1	6.1

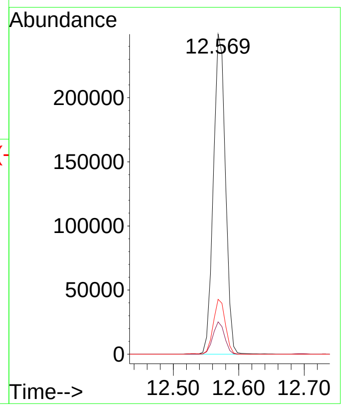




#75
Fluoranthene
Concen: 38.894 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

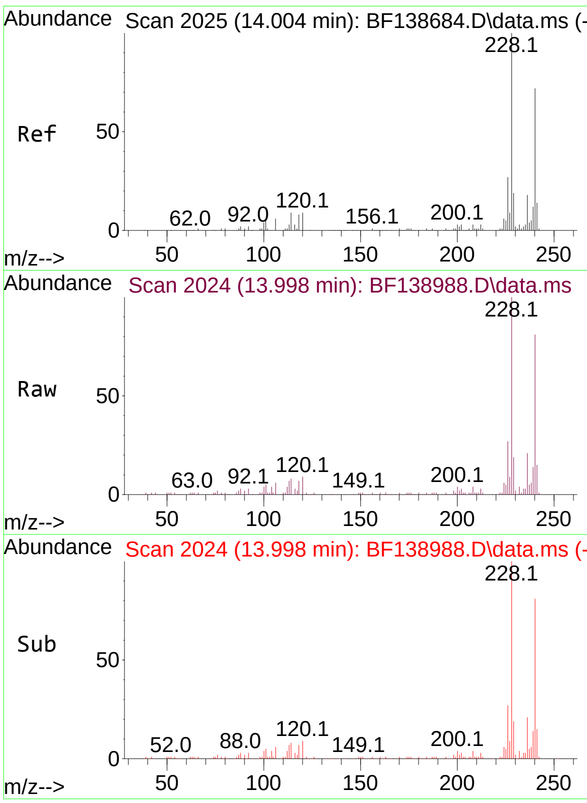
Tgt Ion:202 Resp: 31949

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	31.2
203	17.2	0.0	37.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

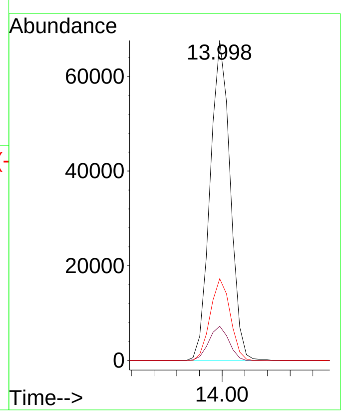
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:240 Resp: 83079

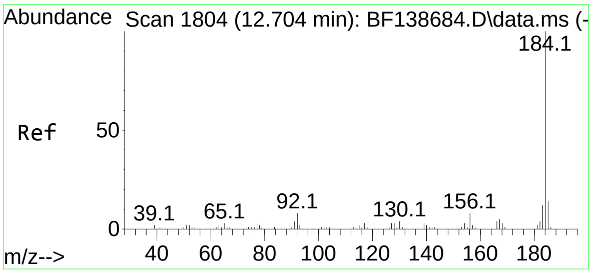
Ion	Ratio	Lower	Upper
240	100		
120	10.7	10.2	15.4
236	25.6	19.8	29.8

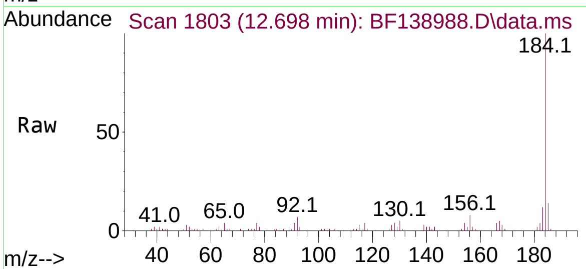


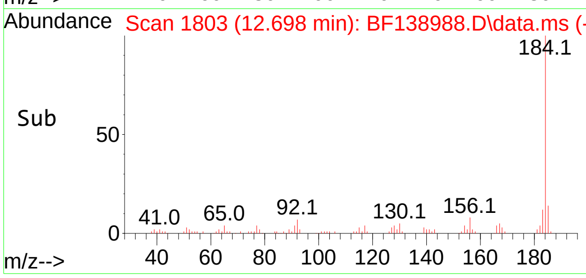
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024



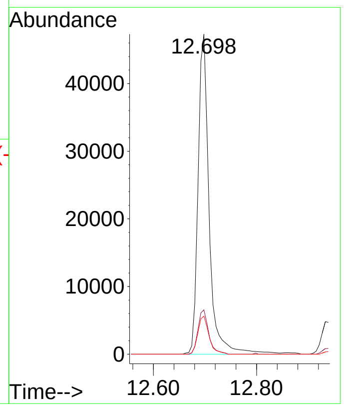


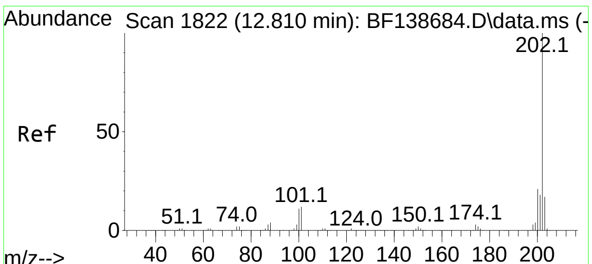


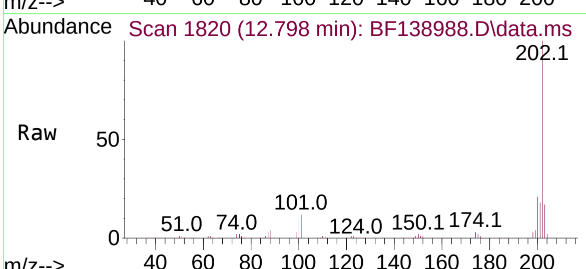
#77
Benzidine
Concen: 35.583 ng
RT: 12.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

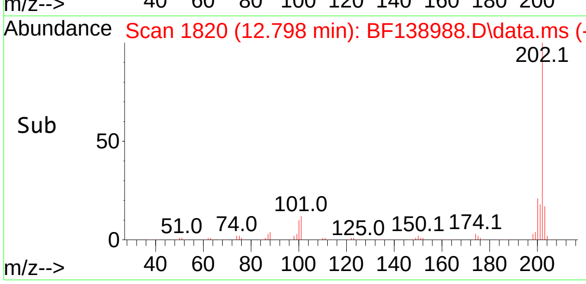
Tgt Ion:184 Resp: 70708

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.1	16.7
183	11.9	9.6	14.4





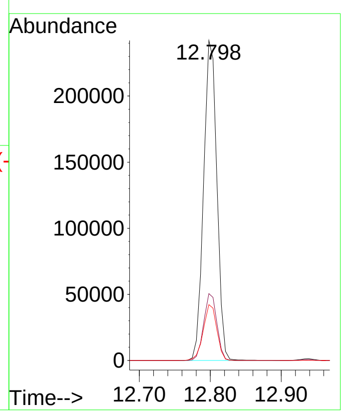




#78
Pyrene
Concen: 40.426 ng
RT: 12.798 min Scan# 1820
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:202 Resp: 316221

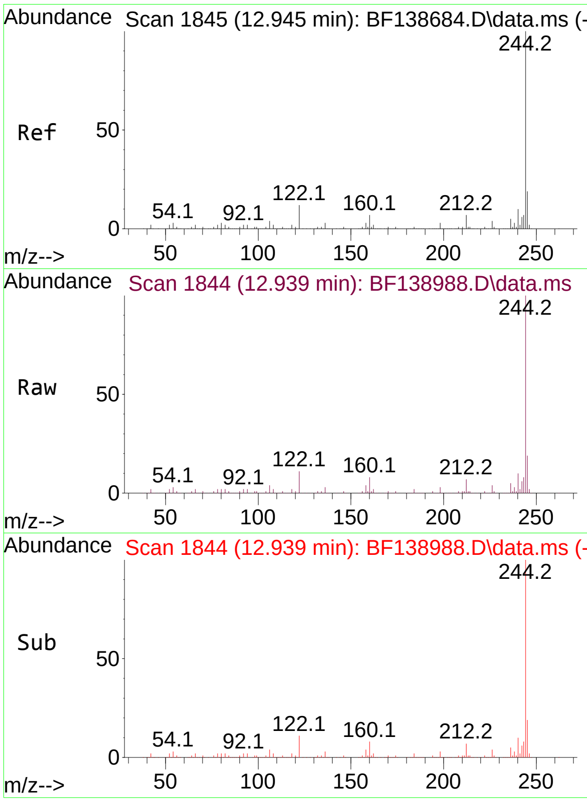
Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.4	13.8	20.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

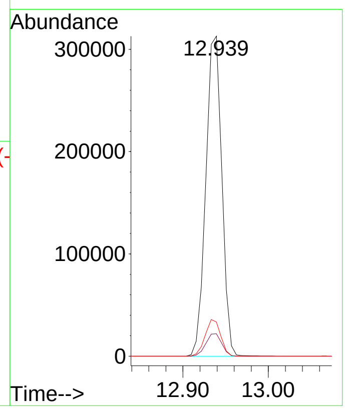
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

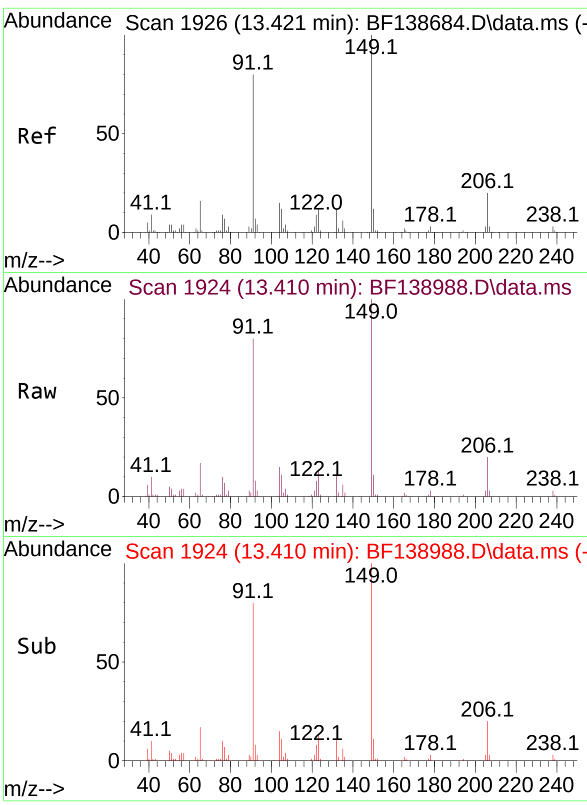


#79
Terphenyl-d14
Concen: 82.278 ng
RT: 12.939 min Scan# 18
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:244 Resp: 40827

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.2
122	10.7	9.6	14.4

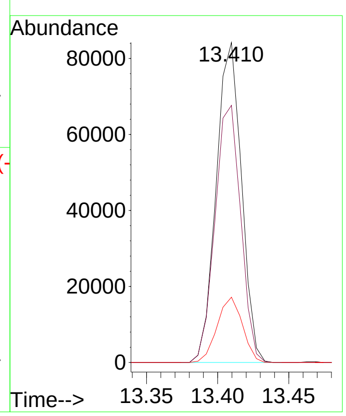




#80
Butylbenzylphthalate
Concen: 41.563 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:149 Resp: 104111

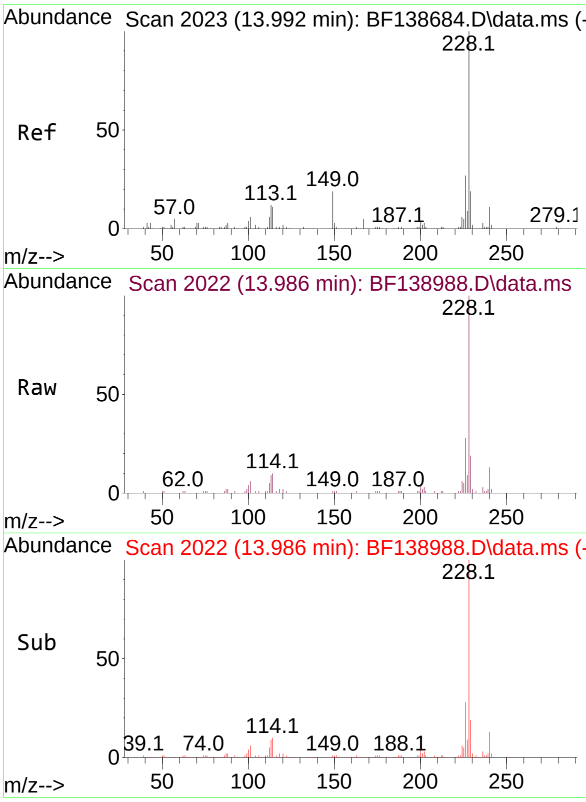
Ion	Ratio	Lower	Upper
149	100		
91	80.4	63.7	95.5
206	20.4	16.2	24.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

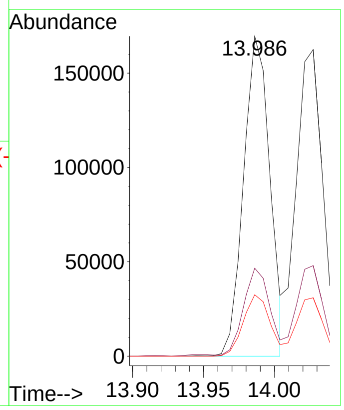
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

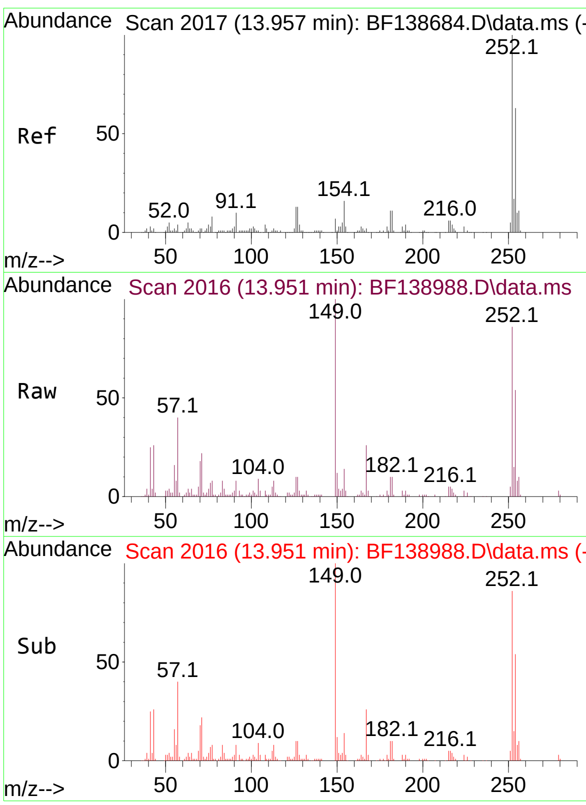


#81
Benzo(a)anthracene
Concen: 38.218 ng
RT: 13.986 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:228 Resp: 21864

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.1	33.1
229	19.2	15.4	23.0

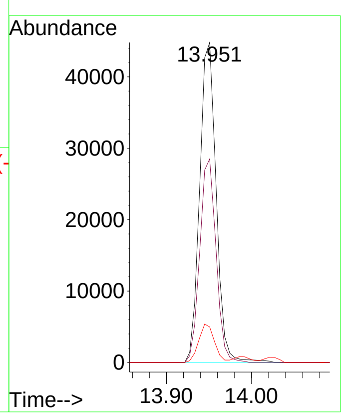


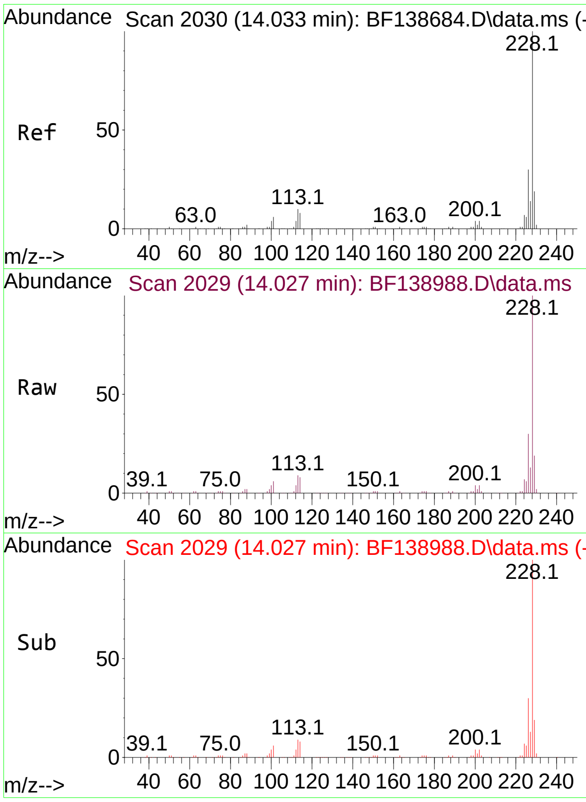


#82
3,3'-Dichlorobenzidine
Concen: 41.184 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:252 Resp: 60294

Ion	Ratio	Lower	Upper
252	100		
254	63.6	50.8	76.2
126	11.1	10.2	15.2





#83
Chrysene
Concen: 41.069 ng
RT: 14.027 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

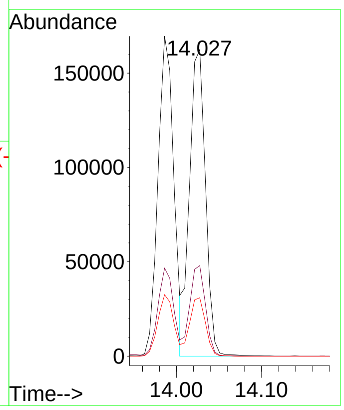
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

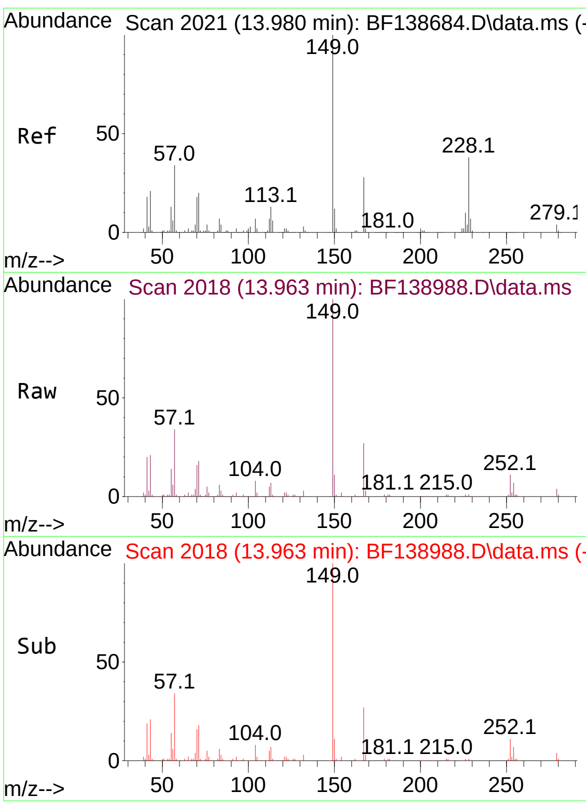
Tgt Ion:228 Resp: 21197

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.7	35.5
229	19.1	15.0	22.6

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

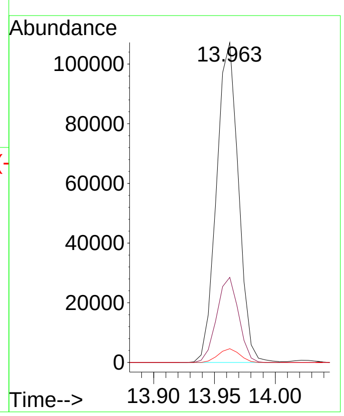


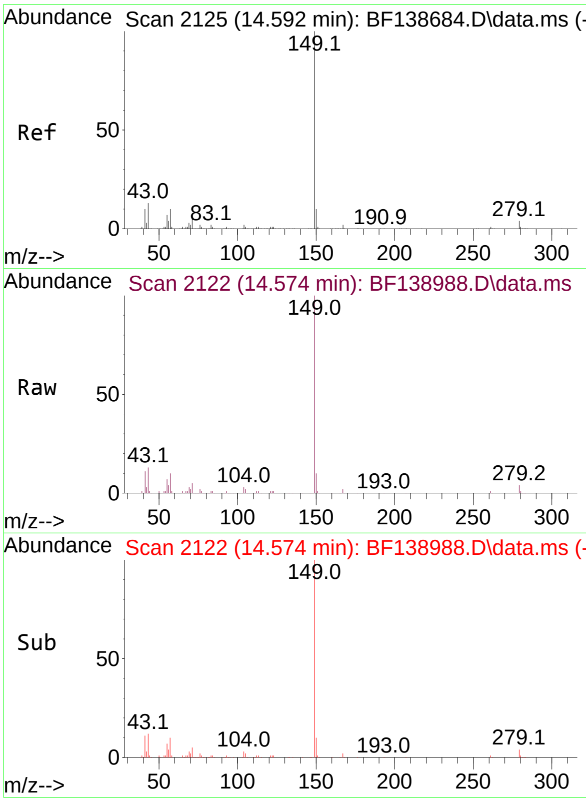


#84
Bis(2-ethylhexyl)phthalate
Concen: 36.776 ng
RT: 13.963 min Scan# 2018
Delta R.T. -0.018 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:149 Resp: 134893

Ion	Ratio	Lower	Upper
149	100		
167	26.6	22.2	33.4
279	4.3	3.4	5.0





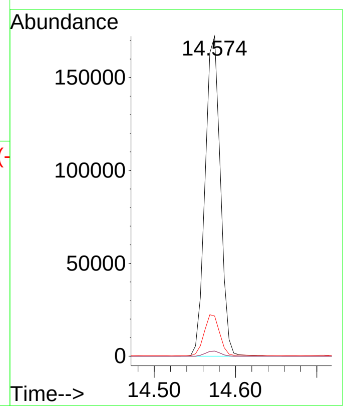
#85
Di-n-octyl phthalate
Concen: 33.003 ng
RT: 14.574 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

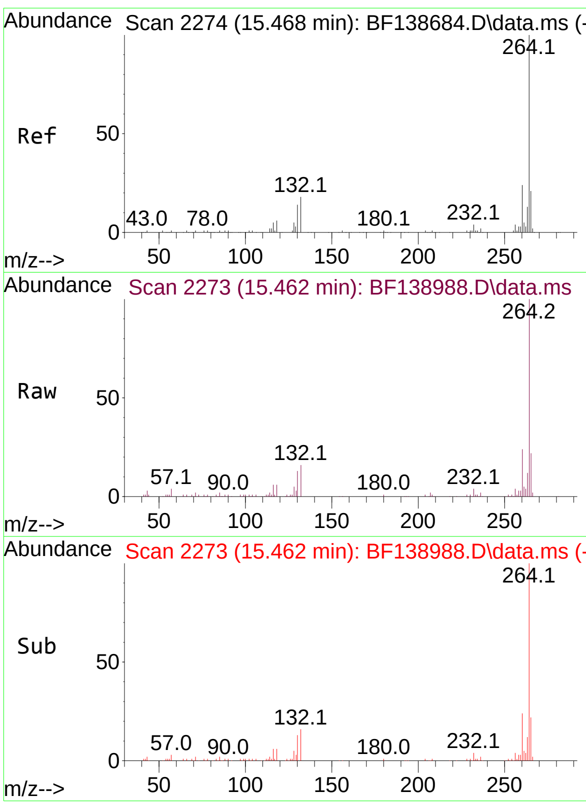
Tgt Ion:149 Resp: 22396

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.4	2.0
43	13.2	10.4	15.6

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

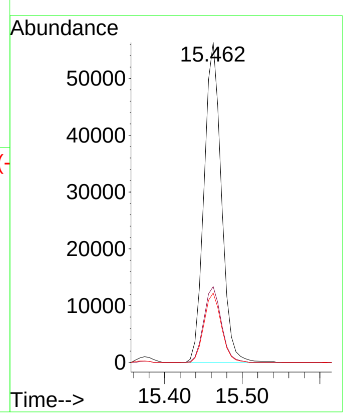


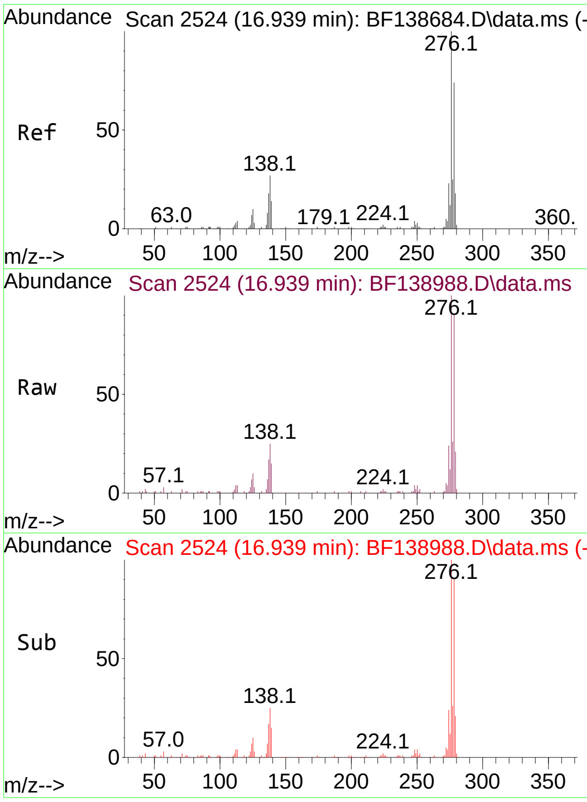


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:264 Resp: 87305

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.6
265	21.7	17.0	25.6

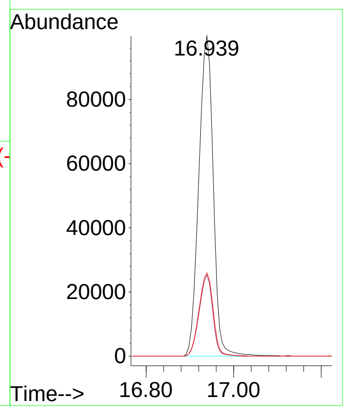




#87
Indeno(1,2,3-cd)pyrene
Concen: 36.769 ng
RT: 16.939 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:276 Resp: 23005

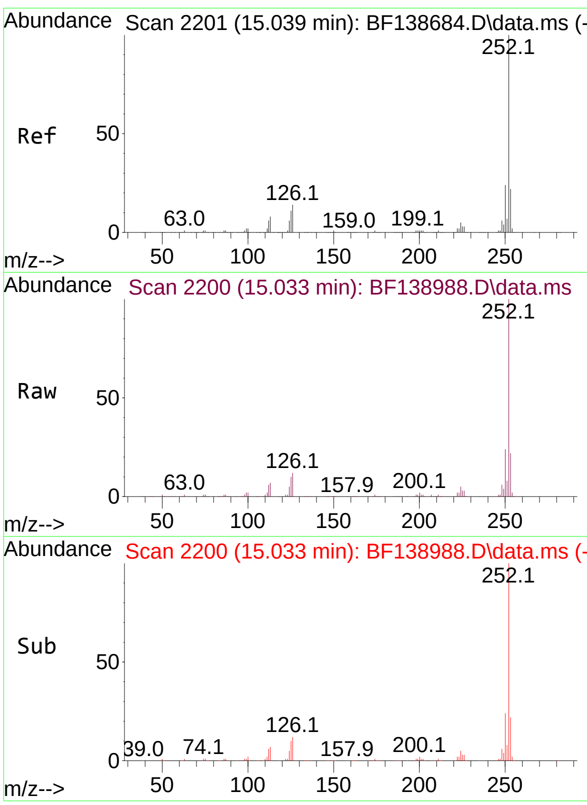
Ion	Ratio	Lower	Upper
276	100		
138	23.8	21.8	32.8
277	25.7	20.6	30.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

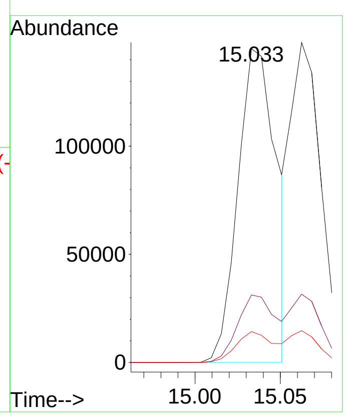
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

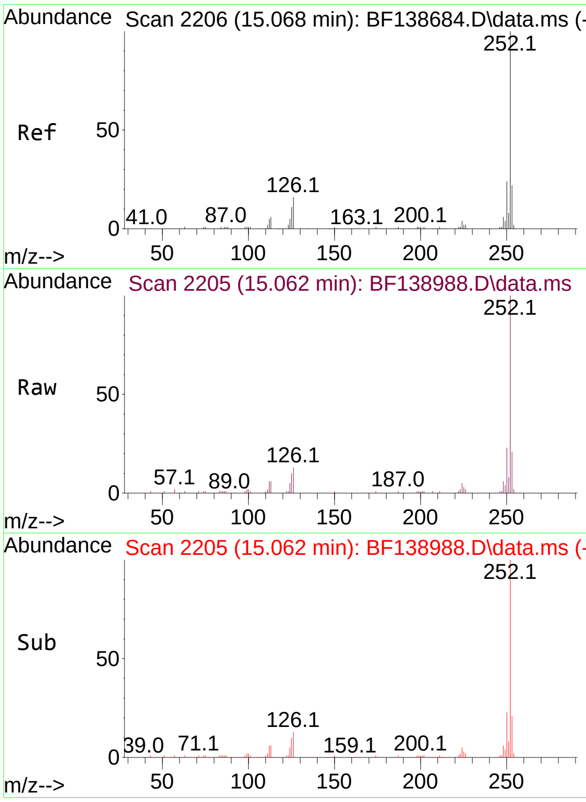


#88
Benzo(b)fluoranthene
Concen: 41.706 ng
RT: 15.033 min Scan# 2200
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:252 Resp: 225713

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	9.8	8.9	13.3

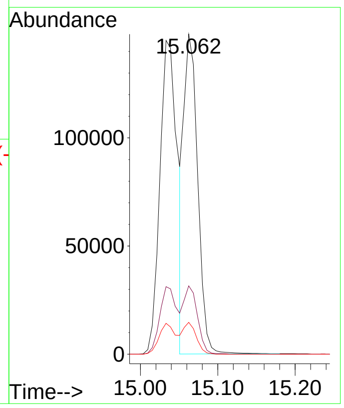




#89
Benzo(k)fluoranthene
Concen: 39.808 ng
RT: 15.062 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:252 Resp: 18653

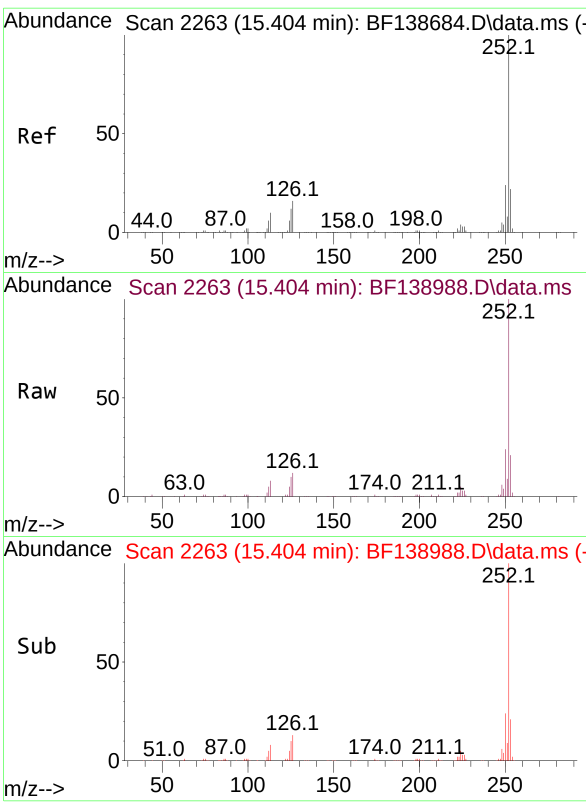
Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.0
125	10.0	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

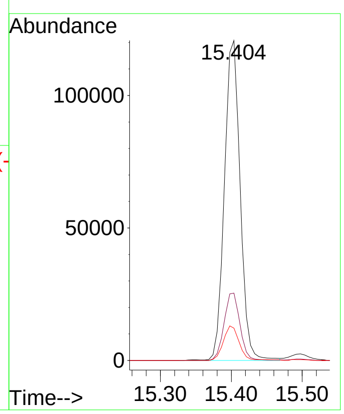
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024



#90
Benzo(a)pyrene
Concen: 40.928 ng
RT: 15.404 min Scan# 2263
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

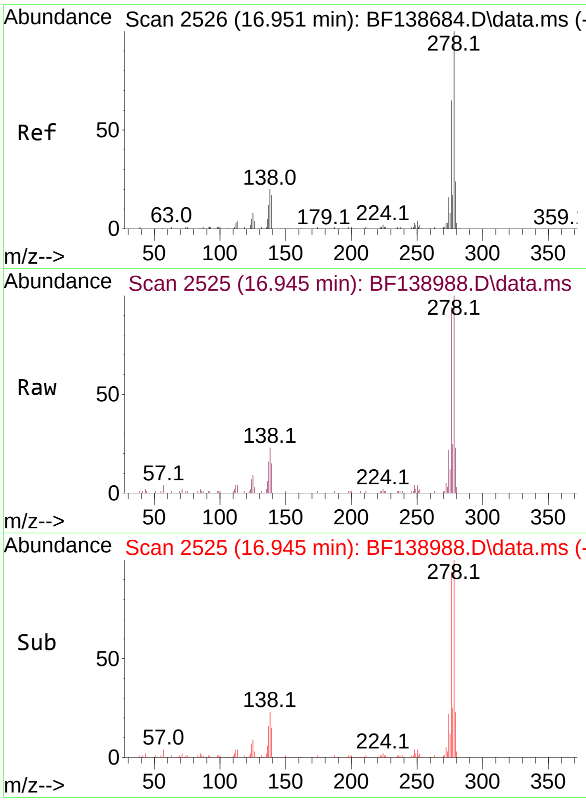
Tgt Ion:252 Resp: 186317

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.3	25.9
125	10.1	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

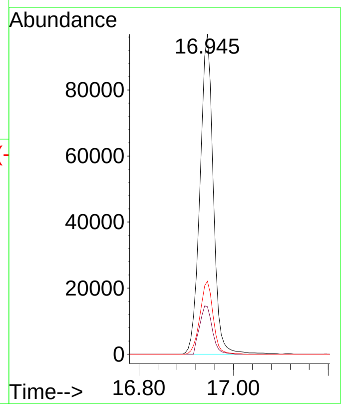
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

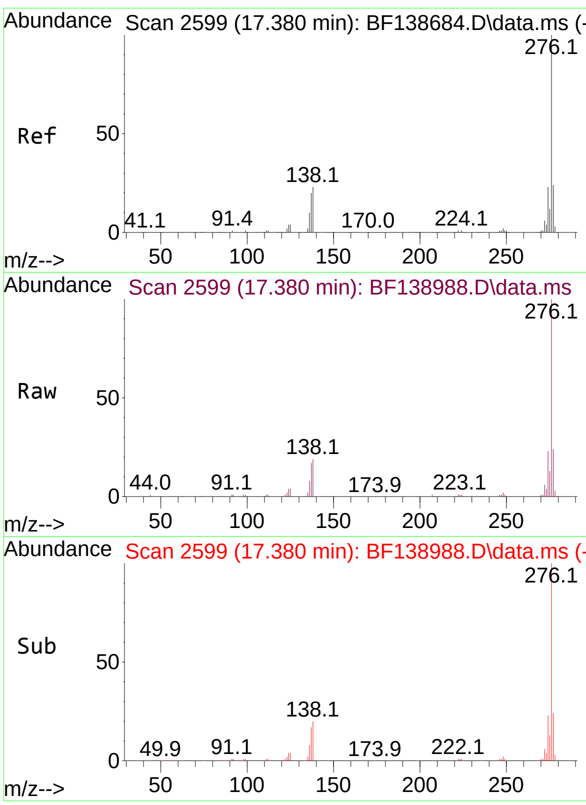


#91
Dibenzo(a,h)anthracene
Concen: 36.814 ng
RT: 16.945 min Scan# 2!
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:278 Resp: 18907!

Ion	Ratio	Lower	Upper
278	100		
139	14.8	14.0	21.0
279	22.8	19.0	28.4

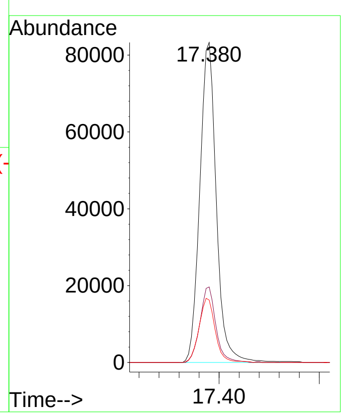




#92
Benzo(g,h,i)perylene
Concen: 35.760 ng
RT: 17.380 min Scan# 2599
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:276 Resp: 190583

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.4
138	19.5	18.5	27.7



Sample Results: **BF138988.D**

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On    : 14 Aug 2024  12:03
Operator  : RC/JU
Sample    : SSTDCCC040
Misc      :
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration


Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	64	0.00
2		1,4-Dioxane	0.567	0.506	10.8	56	0.00
3		Pyridine	1.374	1.276	7.1	59	0.00
4		n-Nitrosodimethylamine	0.818	0.925	-13.1	73	0.02
5	S	2-Fluorophenol	1.296	1.279	1.3	64	0.00
6		Aniline	1.551	1.483	4.4	62	0.00
7	S	Phenol-d6	1.740	1.703	2.1	65	0.00
8		2-Chlorophenol	1.363	1.341	1.6	65	0.00
9		Benzaldehyde	1.043	0.855	18.0	61	0.00
10	C	Phenol	1.832	1.763	3.8	64	0.00
11		bis(2-Chloroethyl)ether	1.409	1.274	9.6	60	-0.01
12		1,3-Dichlorobenzene	1.526	1.474	3.4	64	-0.01
13	C	1,4-Dichlorobenzene	1.540	1.520	1.3	65	0.00
14		1,2-Dichlorobenzene	1.439	1.411	1.9	64	0.00
15		Benzyl Alcohol	1.254	1.292	-3.0	68	0.00
16		2,2'-oxybis(1-Chloropropane	2.426	2.134	12.0	58	-0.01
17		2-Methylphenol	1.126	1.081	4.0	63	0.00
18		Hexachloroethane	0.580	0.576	0.7	65	-0.01
19	P	n-Nitroso-di-n-propylamine	1.051	1.047	0.4	68	0.00
20		3+4-Methylphenols	1.444	1.458	-1.0	68	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	64	0.00
22		Acetophenone	0.490	0.526	-7.3	70	0.00
23	S	Nitrobenzene-d5	0.409	0.430	-5.1	68	0.00
24		Nitrobenzene	0.416	0.434	-4.3	67	0.00
25		Isophorone	0.699	0.701	-0.3	66	0.00
26	C	2-Nitrophenol	0.179	0.179	0.0	63	0.00
27		2,4-Dimethylphenol	0.214	0.214	0.0	64	0.00
28		bis(2-Chloroethoxy)methane	0.425	0.404	4.9	62	0.00
29	C	2,4-Dichlorophenol	0.275	0.280	-1.8	65	0.00
30		1,2,4-Trichlorobenzene	0.318	0.321	-0.9	65	0.00
31		Naphthalene	1.053	1.057	-0.4	65	-0.01
32		Benzoic acid	0.168	0.125	25.6#	48#	0.02
33		4-Chloroaniline	0.353	0.340	3.7	63	0.00
34	C	Hexachlorobutadiene	0.192	0.205	-6.8	69	-0.01
35		Caprolactam	0.082	0.089	-8.5	73	0.00
36	C	4-Chloro-3-methylphenol	0.315	0.334	-6.0	70	0.00
37		2-Methylnaphthalene	0.665	0.681	-2.4	67	-0.01
38		1-Methylnaphthalene	0.652	0.671	-2.9	68	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	69	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.556	0.560	-0.7	70	-0.01
41	P	Hexachlorocyclopentadiene	0.120	0.104	13.3	56	-0.01
42	S	2,4,6-Tribromophenol	0.164	0.163	0.6	70	0.00
43	C	2,4,6-Trichlorophenol	0.339	0.331	2.4	67	0.00
44		2,4,5-Trichlorophenol	0.370	0.361	2.4	67	0.00
45	S	2-Fluorobiphenyl	1.331	1.376	-3.4	72	-0.01
46		1,1'-Biphenyl	1.566	1.563	0.2	70	-0.01
47		2-Chloronaphthalene	1.165	1.143	1.9	68	0.00

Sample Results: **BF138988.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	0.395	0.418	-5.8	74	0.00
49	Acenaphthylene	1.652	1.626	1.6	68	-0.01
50	Dimethylphthalate	1.279	1.330	-4.0	74	-0.01
51	2,6-Dinitrotoluene	0.289	0.299	-3.5	71	0.00
52 C	Acenaphthene	1.111	1.101	0.9	70	-0.01
53	3-Nitroaniline	0.298	0.287	3.7	68	0.00
54 P	2,4-Dinitrophenol	0.133	0.120	9.8	65	0.00
55	Dibenzofuran	1.568	1.584	-1.0	72	-0.01
56 P	4-Nitrophenol	0.179	0.214	-19.6	84	0.01
57	2,4-Dinitrotoluene	0.368	0.393	-6.8	74	0.00
58	Fluorene	1.249	1.314	-5.2	75	0.00
59	2,3,4,6-Tetrachlorophenol	0.283	0.275	2.8	69	0.00
60	Diethylphthalate	1.213	1.324	-9.2	79	0.00
61	4-Chlorophenyl-phenylether	0.614	0.637	-3.7	74	-0.01
62	4-Nitroaniline	0.284	0.283	0.4	71	0.00
63	Azobenzene	1.345	1.362	-1.3	72	-0.01
64 I	Phenanthrene-d10	1.000	1.000	0.0	75	-0.01
65	4,6-Dinitro-2-methylphenol	0.122	0.113	7.4	68	0.00
66 c	n-Nitrosodiphenylamine	0.625	0.622	0.5	74	0.00
67	4-Bromophenyl-phenylether	0.217	0.212	2.3	73	-0.01
68	Hexachlorobenzene	0.224	0.221	1.3	76	0.00
69	Atrazine	0.161	0.152	5.6	70	0.00
70 C	Pentachlorophenol	0.101	0.094	6.9	69	0.00
71	Phenanthrene	1.030	1.031	-0.1	76	-0.01
72	Anthracene	1.015	1.008	0.7	76	-0.01
73	Carbazole	0.875	0.850	2.9	73	0.00
74	Di-n-butylphthalate	0.984	1.072	-8.9	81	-0.01
75 C	Fluoranthene	0.961	0.935	2.7	73	-0.01
76 I	Chrysene-d12	1.000	1.000	0.0	66	0.00
77	Benzidine	0.478	0.426	10.9	52	0.00
78	Pyrene	1.883	1.903	-1.1	72	-0.01
79 S	Terphenyl-d14	1.195	1.229	-2.8	73	0.00
80	Butylbenzylphthalate	0.603	0.627	-4.0	66	-0.01
81	Benzo(a)anthracene	1.377	1.316	4.4	62	0.00
82	3,3'-Dichlorobenzidine	0.352	0.363	-3.1	67	0.00
83	Chrysene	1.243	1.276	-2.7	69	0.00
84	Bis(2-ethylhexyl)phthalate	0.883	0.812	8.0	56	-0.02
85 c	Di-n-octyl phthalate	1.634	1.348	17.5	51	-0.02
86 I	Perylene-d12	1.000	1.000	0.0	58	0.00
87	Indeno(1,2,3-cd)pyrene	1.433	1.318	8.0	54	0.00
88	Benzo(b)fluoranthene	1.240	1.293	-4.3	61	0.00
89	Benzo(k)fluoranthene	1.073	1.068	0.5	61	0.00
90 C	Benzo(a)pyrene	1.043	1.067	-2.3	60	0.00
91	Dibenzo(a,h)anthracene	1.177	1.083	8.0	55	0.00
92	Benzo(g,h,i)perylene	1.221	1.091	10.6	52	0.00

Sample Results: **BF138988.D**

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On    : 14 Aug 2024  12:03
Operator  : RC/JU
Sample    : SSTDCCC040
Misc      :
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration


Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 150%

       Compound                      AvgRF   CCRF      %Dev Area% Dev(min)
-------------------------------------------------------------------------

  (#) = Out of Range               SPCC's out = 0  CCC's out = 0
```

Evaluate Continuing Calibration Report

Sample Results: **BF138988.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	64	0.00
2		1,4-Dioxane	40.000	35.669	10.8	56	0.00
3		Pyridine	40.000	37.156	7.1	59	0.00
4		n-Nitrosodimethylamine	40.000	45.210	-13.0	73	0.02
5	S	2-Fluorophenol	80.000	78.978	1.3	64	0.00
6		Aniline	40.000	38.250	4.4	62	0.00
7	S	Phenol-d6	80.000	78.311	2.1	65	0.00
8		2-Chlorophenol	40.000	39.344	1.6	65	0.00
9		Benzaldehyde	40.000	32.783	18.0	61	0.00
10	C	Phenol	40.000	38.514	3.7	64	0.00
11		bis(2-Chloroethyl)ether	40.000	36.171	9.6	60	-0.01
12		1,3-Dichlorobenzene	40.000	38.642	3.4	64	-0.01
13	C	1,4-Dichlorobenzene	40.000	39.481	1.3	65	0.00
14		1,2-Dichlorobenzene	40.000	39.221	1.9	64	0.00
15		Benzyl Alcohol	40.000	41.229	-3.1	68	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	35.200	12.0	58	-0.01
17		2-Methylphenol	40.000	38.428	3.9	63	0.00
18		Hexachloroethane	40.000	39.720	0.7	65	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	39.876	0.3	68	0.00
20		3+4-Methylphenols	40.000	40.386	-1.0	68	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	64	0.00
22		Acetophenone	40.000	42.932	-7.3	70	0.00
23	S	Nitrobenzene-d5	80.000	84.071	-5.1	68	0.00
24		Nitrobenzene	40.000	41.674	-4.2	67	0.00
25		Isophorone	40.000	40.170	-0.4	66	0.00
26	C	2-Nitrophenol	40.000	40.063	-0.2	63	0.00
27		2,4-Dimethylphenol	40.000	39.859	0.4	64	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.016	5.0	62	0.00
29	C	2,4-Dichlorophenol	40.000	40.610	-1.5	65	0.00
30		1,2,4-Trichlorobenzene	40.000	40.354	-0.9	65	0.00
31		Naphthalene	40.000	40.153	-0.4	65	-0.01
32		Benzoic acid	40.000	29.736	25.7#	48	0.02
33		4-Chloroaniline	40.000	38.457	3.9	63	0.00
34	C	Hexachlorobutadiene	40.000	42.681	-6.7	69	-0.01
35		Caprolactam	40.000	43.423	-8.6	73	0.00
36	C	4-Chloro-3-methylphenol	40.000	42.436	-6.1	70	0.00
37		2-Methylnaphthalene	40.000	40.974	-2.4	67	-0.01
38		1-Methylnaphthalene	40.000	41.175	-2.9	68	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	69	-0.01
40		1,2,4,5-Tetrachlorobenzene	40.000	40.349	-0.9	70	-0.01
41	P	Hexachlorocyclopentadiene	40.000	32.674	18.3	56	-0.01
42	S	2,4,6-Tribromophenol	80.000	79.472	0.7	70	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.096	2.3	67	0.00
44		2,4,5-Trichlorophenol	40.000	38.990	2.5	67	0.00
45	S	2-Fluorobiphenyl	80.000	82.676	-3.3	72	-0.01
46		1,1'-Biphenyl	40.000	39.920	0.2	70	-0.01
47		2-Chloronaphthalene	40.000	39.241	1.9	68	0.00

Evaluate Continuing Calibration Report

Sample Results: **BF138988.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
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	42.361	-5.9	74	0.00
49	Acenaphthylene	40.000	39.371	1.6	68	-0.01
50	Dimethylphthalate	40.000	41.594	-4.0	74	-0.01
51	2,6-Dinitrotoluene	40.000	41.487	-3.7	71	0.00
52 C	Acenaphthene	40.000	39.648	0.9	70	-0.01
53	3-Nitroaniline	40.000	38.446	3.9	68	0.00
54 P	2,4-Dinitrophenol	40.000	36.052	9.9	65	0.00
55	Dibenzofuran	40.000	40.425	-1.1	72	-0.01
56 P	4-Nitrophenol	40.000	47.672	-19.2	84	0.01
57	2,4-Dinitrotoluene	40.000	42.640	-6.6	74	0.00
58	Fluorene	40.000	42.082	-5.2	75	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	38.824	2.9	69	0.00
60	Diethylphthalate	40.000	43.665	-9.2	79	0.00
61	4-Chlorophenyl-phenylether	40.000	41.474	-3.7	74	-0.01
62	4-Nitroaniline	40.000	39.940	0.2	71	0.00
63	Azobenzene	40.000	40.516	-1.3	72	-0.01
64 I	Phenanthrene-d10	20.000	20.000	0.0	75	-0.01
65	4,6-Dinitro-2-methylphenol	40.000	36.964	7.6	68	0.00
66 c	n-Nitrosodiphenylamine	40.000	39.795	0.5	74	0.00
67	4-Bromophenyl-phenylether	40.000	39.102	2.2	73	-0.01
68	Hexachlorobenzene	40.000	39.584	1.0	76	0.00
69	Atrazine	40.000	37.660	5.9	70	0.00
70 C	Pentachlorophenol	40.000	37.365	6.6	69	0.00
71	Phenanthrene	40.000	40.041	-0.1	76	-0.01
72	Anthracene	40.000	39.749	0.6	76	-0.01
73	Carbazole	40.000	38.844	2.9	73	0.00
74	Di-n-butylphthalate	40.000	43.590	-9.0	81	-0.01
75 C	Fluoranthene	40.000	38.894	2.8	73	-0.01
76 I	Chrysene-d12	20.000	20.000	0.0	66	0.00
77	Benzidine	40.000	35.583	11.0	52	0.00
78	Pyrene	40.000	40.426	-1.1	72	-0.01
79 S	Terphenyl-d14	80.000	82.278	-2.8	73	0.00
80	Butylbenzylphthalate	40.000	41.563	-3.9	66	-0.01
81	Benzo(a)anthracene	40.000	38.218	4.5	62	0.00
82	3,3'-Dichlorobenzidine	40.000	41.184	-3.0	67	0.00
83	Chrysene	40.000	41.069	-2.7	69	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	36.776	8.1	56	-0.02
85 c	Di-n-octyl phthalate	40.000	33.003	17.5	51	-0.02
86 I	Perylene-d12	20.000	20.000	0.0	58	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	36.769	8.1	54	0.00
88	Benzo(b)fluoranthene	40.000	41.706	-4.3	61	0.00
89	Benzo(k)fluoranthene	40.000	39.808	0.5	61	0.00
90 C	Benzo(a)pyrene	40.000	40.928	-2.3	60	0.00
91	Dibenzo(a,h)anthracene	40.000	36.814	8.0	55	0.00
92	Benzo(g,h,i)perylene	40.000	35.760	10.6	52	0.00

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On    : 14 Aug 2024  12:03
Operator  : RC/JU
Sample    : SSTDCCC040
Misc      :
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration
```

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

```
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

QC SAMPLE DATA

DFTPP

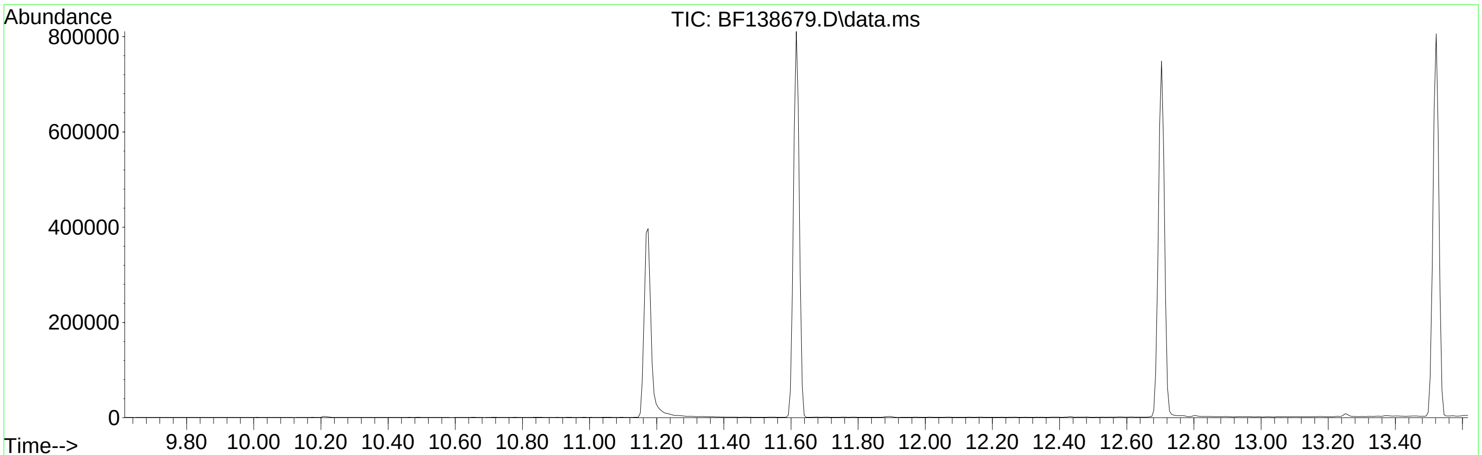
Sample Results: **BF138679.D**

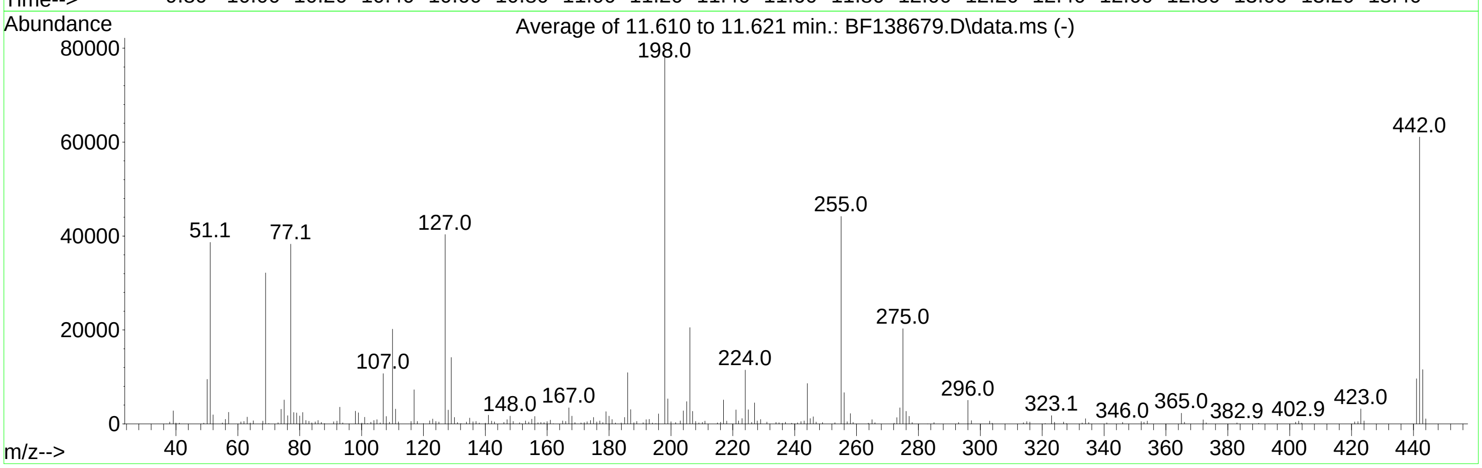
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138679.D
Acq On : 30 Jul 2024 12:24
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 30 17:50:01 2024





AutoFind: Scans 1618, 1619, 1620; Background Corrected with Scan 1612

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	49.4	38677	PASS
68	69	0.00	2	1.9	605	PASS
69	198	0.00	100	41.1	32171	PASS
70	69	0.00	2	0.4	120	PASS
127	198	10	80	51.5	40312	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	78240	PASS
199	198	5	9	6.8	5335	PASS
275	198	10	60	25.9	20277	PASS
365	198	1	100	2.9	2288	PASS
441	198	0.01	100	12.3	9630	PASS
442	442	50	100	100.0	61072	PASS
443	442	15	24	18.9	11558	PASS

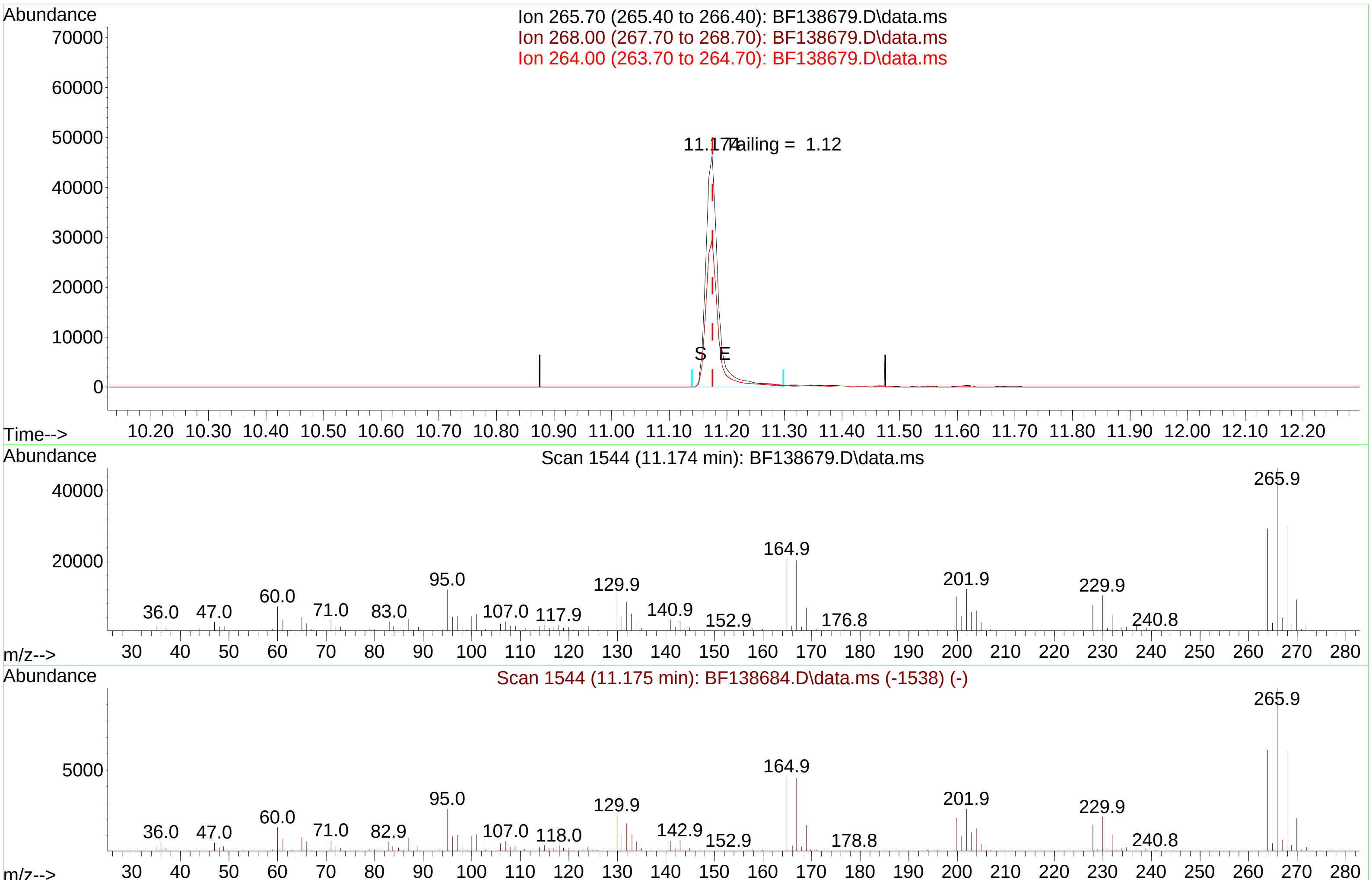
Quantitation Report (Qedit)

Sample Results: **BF138679.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138679.D
Acq On : 30 Jul 2024 12:24
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 30 18:29:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



TIC: BF138679.D\data.ms

(70) Pentachlorophenol (C)

11.174min (-0.001) 37845.67 ng

response 69604

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	61.50	63.56
264.00	62.20	62.86
0.00	0.00	0.00

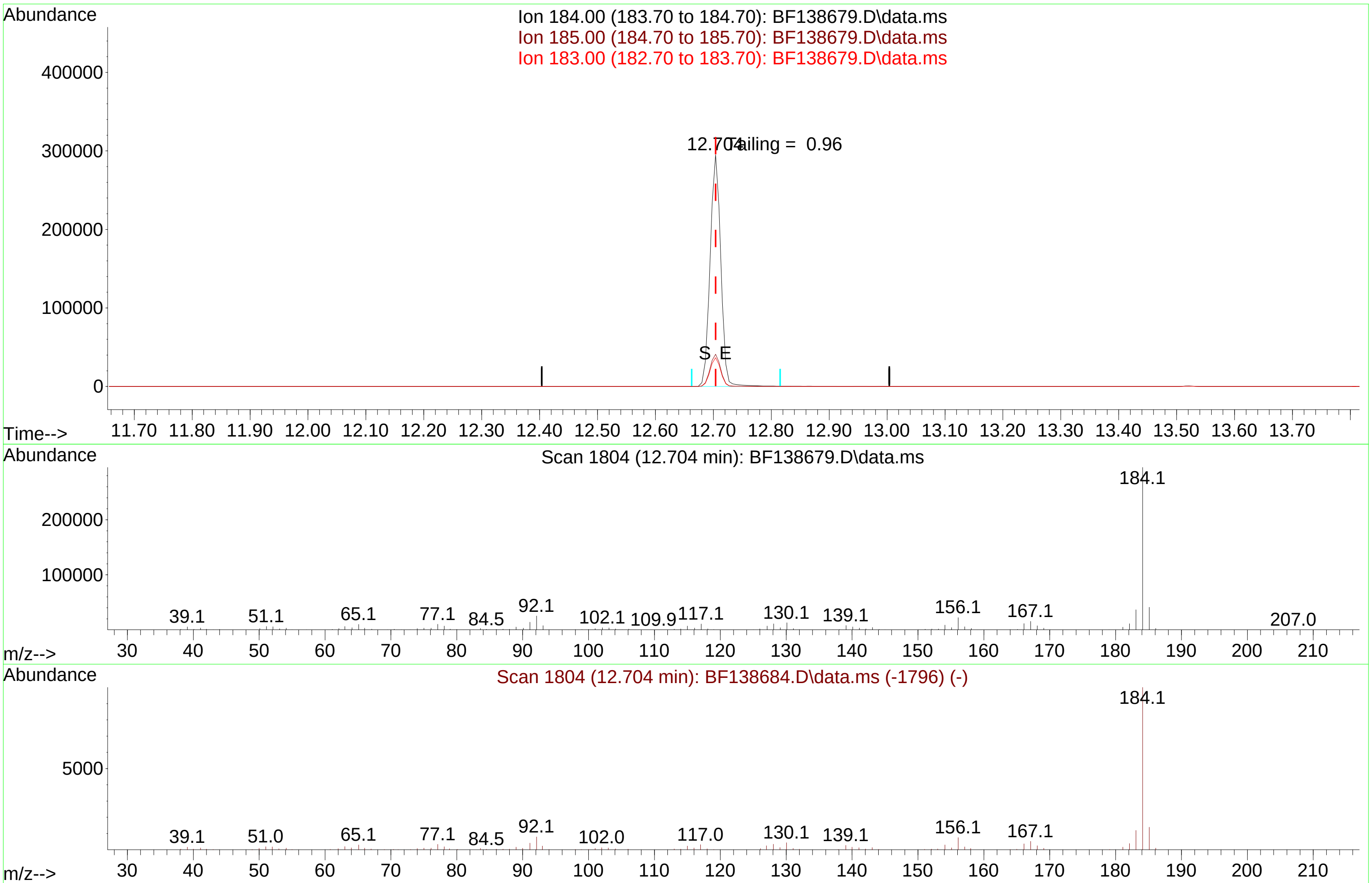
Quantitation Report (Qedit)

Sample Results: **BF138679.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138679.D
Acq On : 30 Jul 2024 12:24
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 30 18:29:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



(77) Benzidine

12.704min (-0.000) 0.00 ng

response 376863

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	13.90	13.91
183.00	12.00	12.39
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
7/30/2024	BNA_F	BF138679.D
Compound Name	Response	Retention Time
DDT	187682	13.521
DDD	3715	13.251
DDE	369	12.886
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
4084	191766	2.13

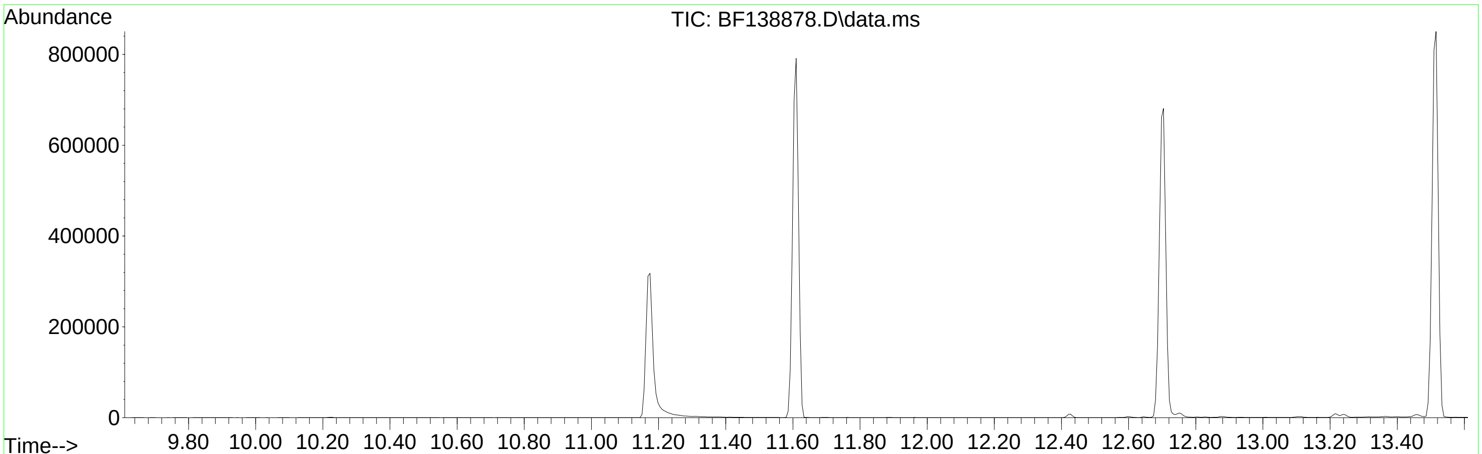
Sample Results: **BF138878.D**

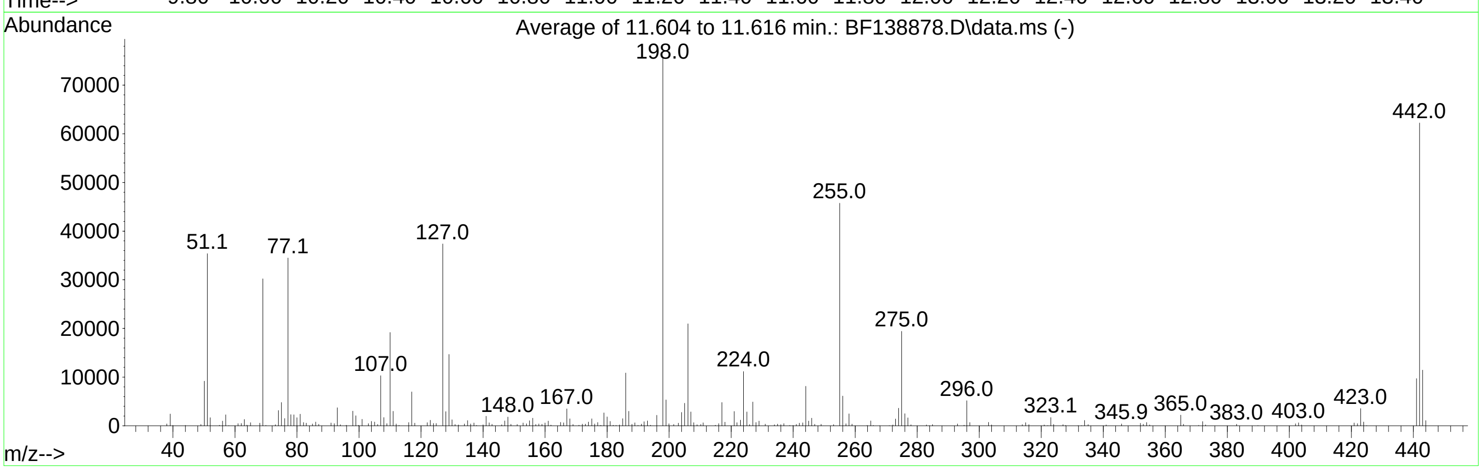
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138878.D
Acq On : 09 Aug 2024 09:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 30 17:50:01 2024





AutoFind: Scans 1617, 1618, 1619; Background Corrected with Scan 1610

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.8	35389	PASS
68	69	0.00	2	1.9	576	PASS
69	198	0.00	100	39.9	30211	PASS
70	69	0.00	2	0.4	118	PASS
127	198	10	80	49.4	37373	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	75667	PASS
199	198	5	9	7.1	5335	PASS
275	198	10	60	25.7	19429	PASS
365	198	1	100	2.9	2201	PASS
441	198	0.01	100	12.8	9714	PASS
442	442	50	100	100.0	62237	PASS
443	442	15	24	18.4	11446	PASS

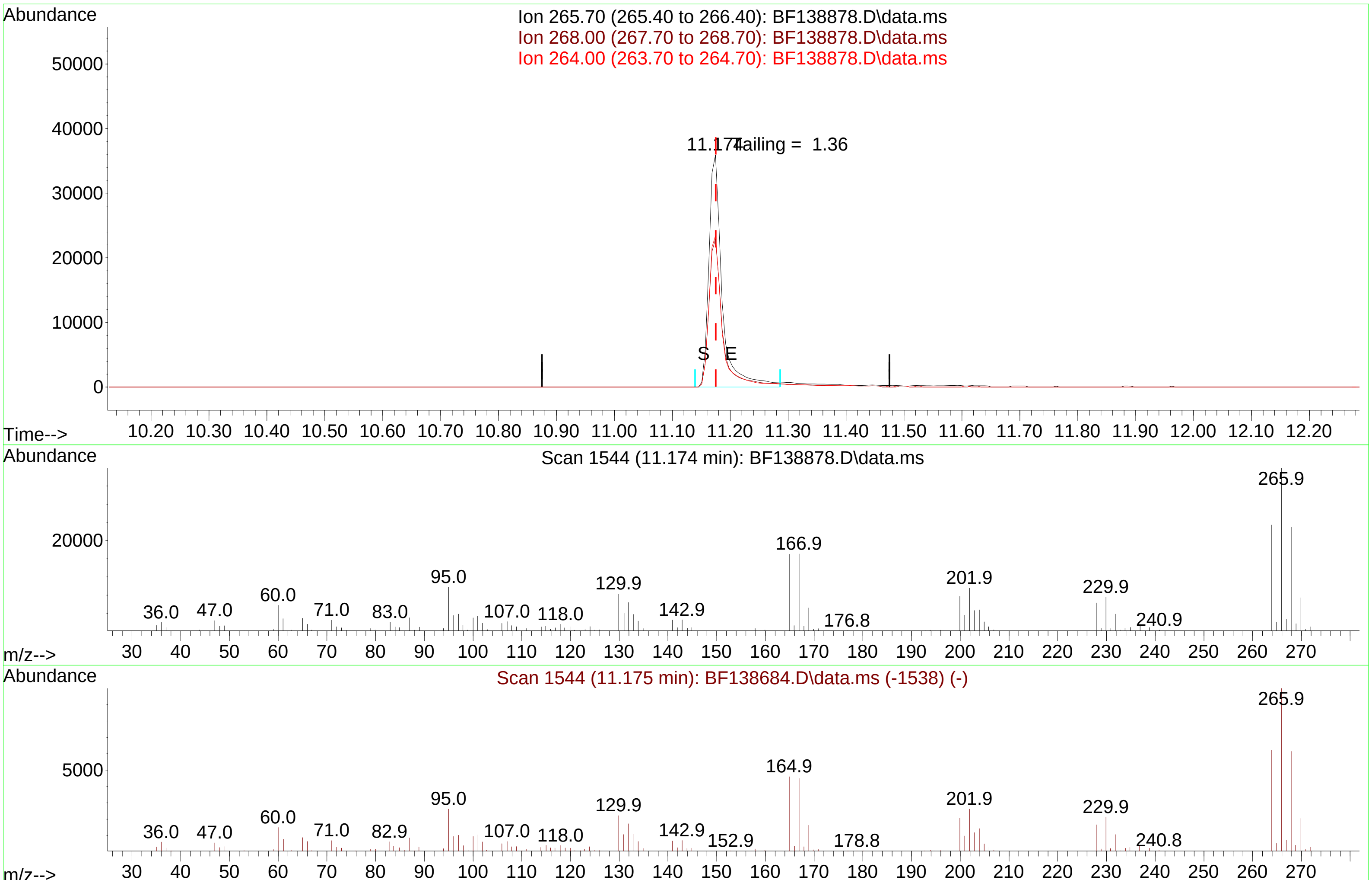
Quantitation Report (Qedit)

Sample Results: **BF138878.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138878.D
Acq On : 09 Aug 2024 09:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DFTPP

Quant Time: Aug 09 10:51:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



TIC: BF138878.D\data.ms

(70) Pentachlorophenol (C)

11.174min (-0.001) 26324.57 ng

response 57700

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	61.50	63.86
264.00	62.20	65.20
0.00	0.00	0.00

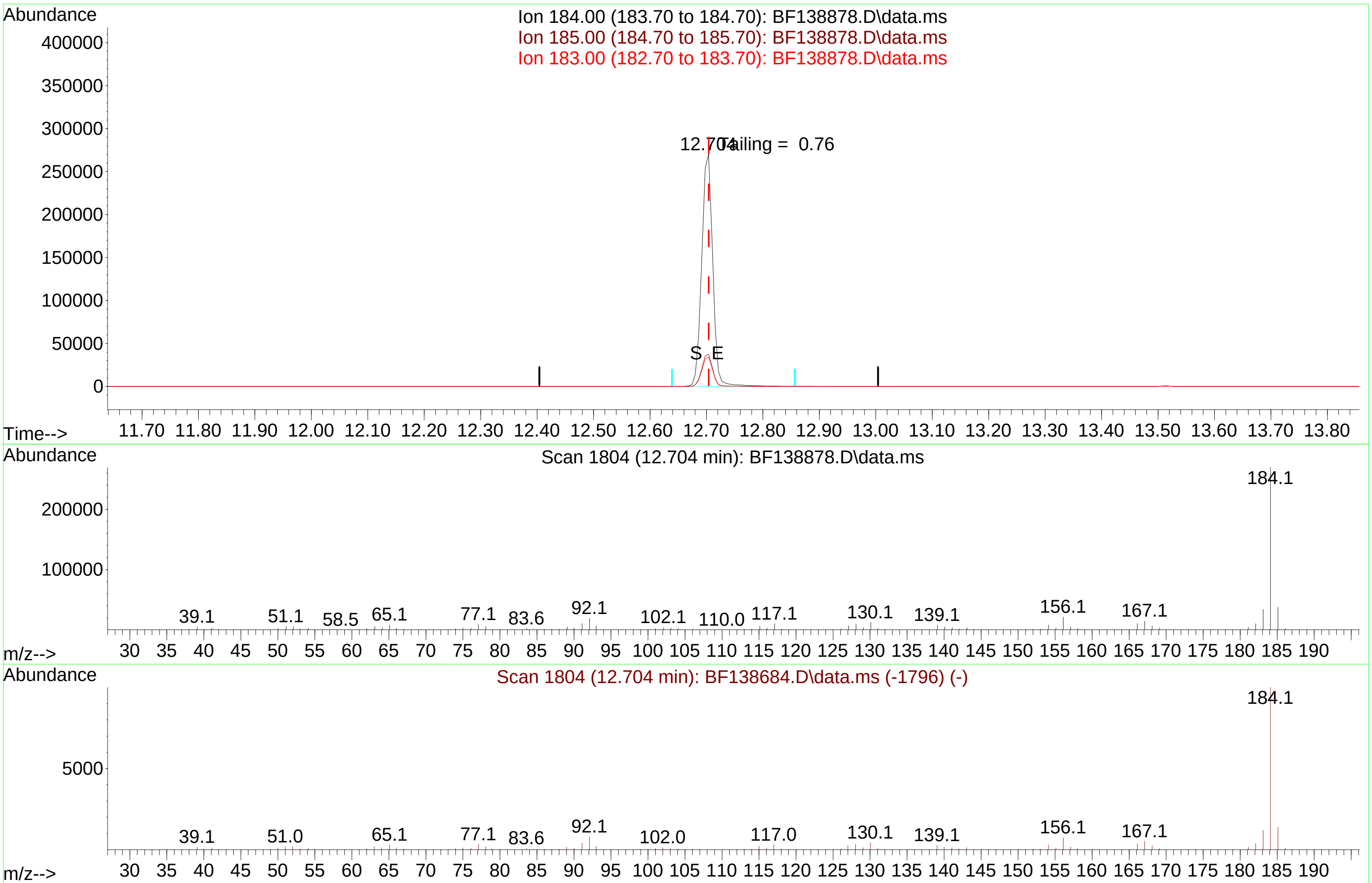
Quantitation Report (Qedit)

Sample Results: **BF138878.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138878.D
Acq On : 09 Aug 2024 09:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 09 10:51:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



(77) Benzidine

12.704min (-0.000) 0.00 ng

response 368946

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	13.90	13.92
183.00	12.00	12.68
0.00	0.00	0.00

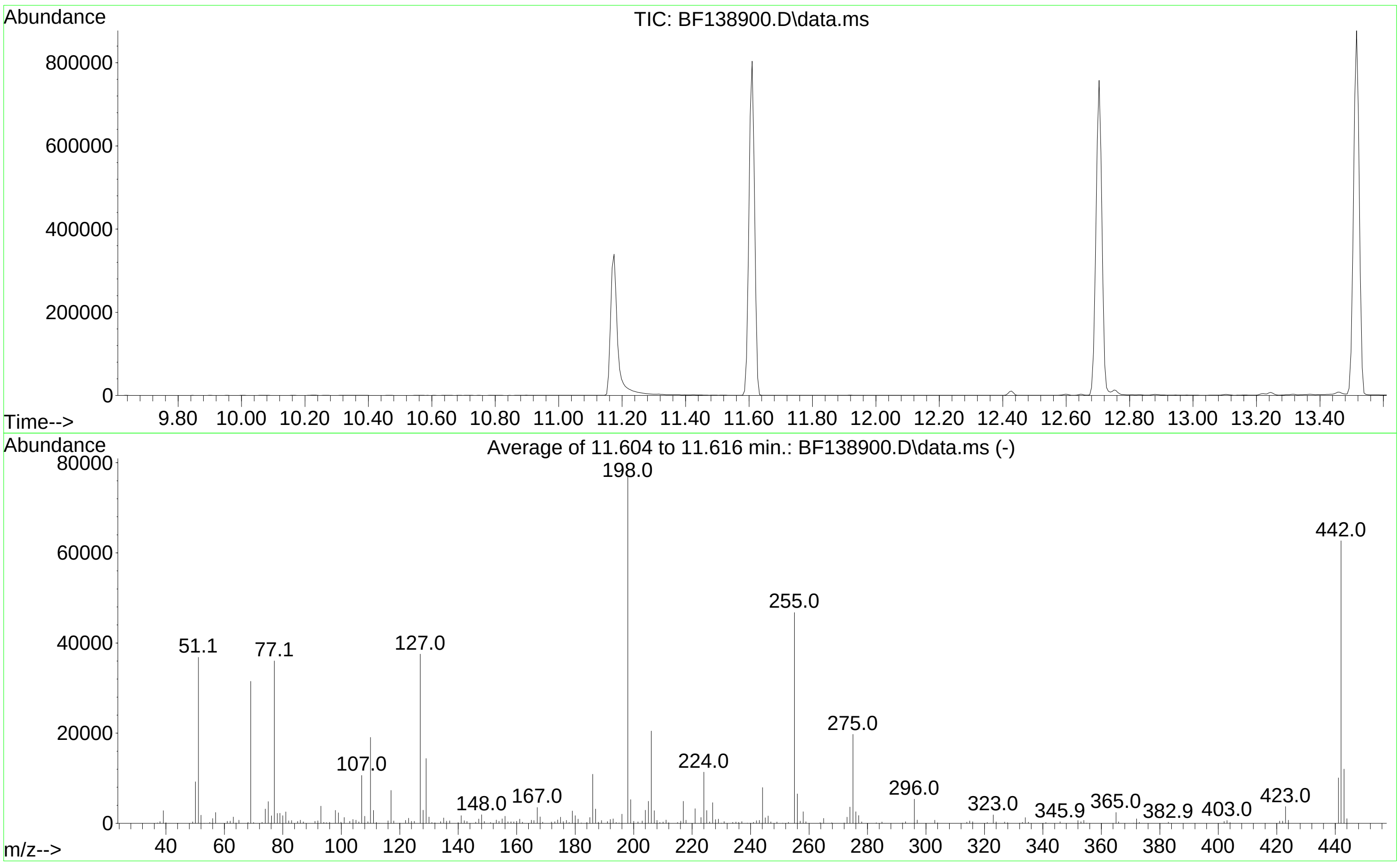
DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/9/2024	BNA_F	BF138878.D
Compound Name	**Response**	**Retention Time**
DDT	209857	13.515
DDD	5443	13.215
DDE	1045	12.88
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6488	216345	3.00

Sample Results: **BF138900.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138900.D
Acq On    : 10 Aug 2024  10:12
Operator  : RC/JU
Sample    : DFTPP
Misc      :
ALS Vial  : 1   Sample Multiplier: 1

Integration File: rteint.p

Method    : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Title     : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update  : Tue Jul 30 17:50:01 2024
```

Instrument :
BNA_F
ClientSampleId :
DFTPP



AutoFind: Scans 1617, 1618, 1619; Background Corrected with Scan 1611

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.8	36840	PASS
68	69	0.00	2	0.8	242	PASS
69	198	0.00	100	40.9	31507	PASS
70	69	0.00	2	0.6	200	PASS
127	198	10	80	48.7	37536	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	77061	PASS
199	198	5	9	6.8	5274	PASS
275	198	10	60	25.6	19728	PASS
365	198	1	100	3.1	2410	PASS
441	198	0.01	100	13.1	10083	PASS
442	442	50	100	100.0	62667	PASS
443	442	15	24	19.2	12045	PASS

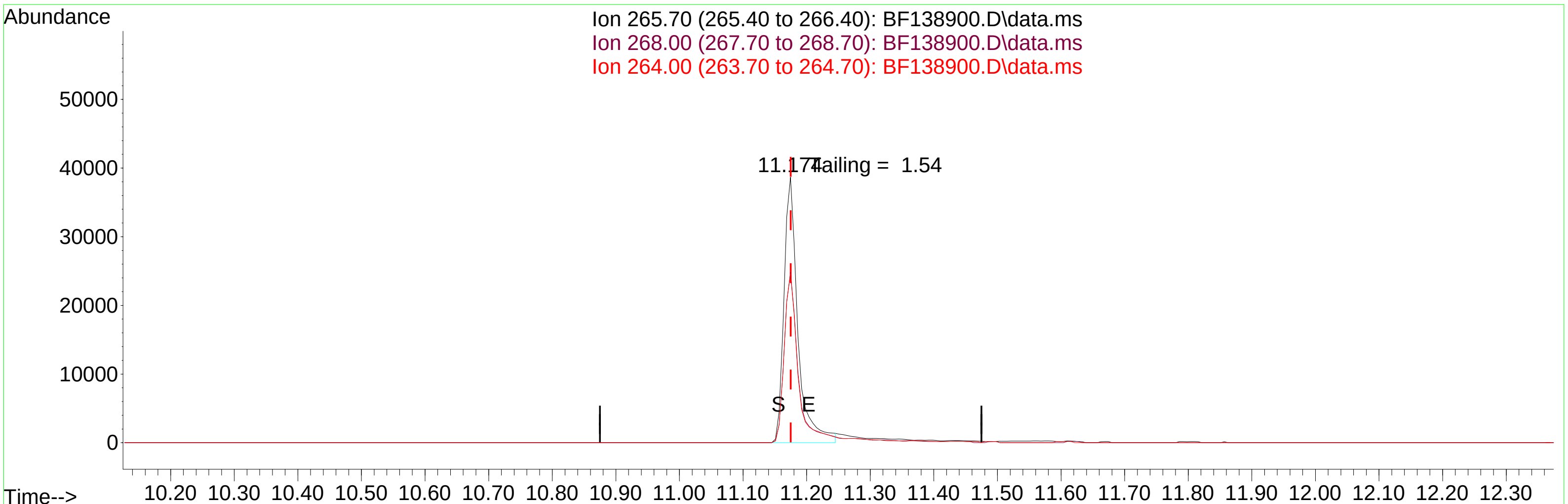
Quantitation Report (Qedit)

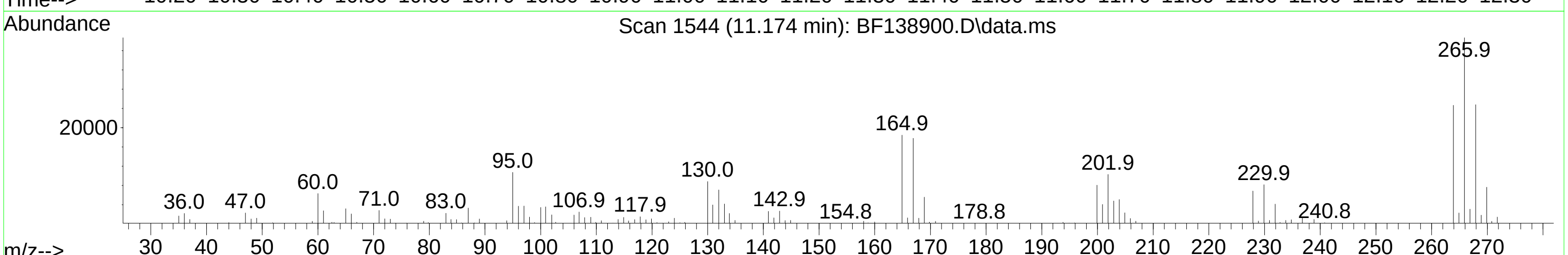
Sample Results: **BF138900.D**

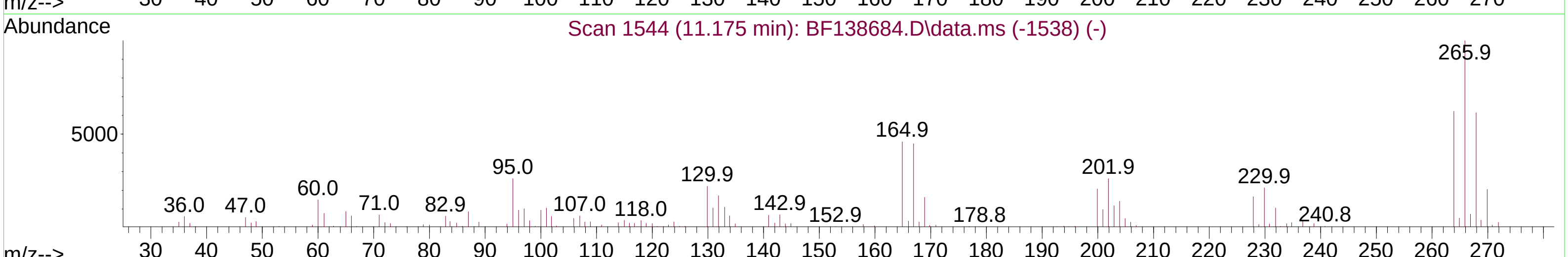
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138900.D
Acq On : 10 Aug 2024 10:12
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 12 00:49:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration







TIC: BF138900.D\data.ms

(70) Pentachlorophenol (C)

11.174min (-0.001) 42180.16 ng

response 64186

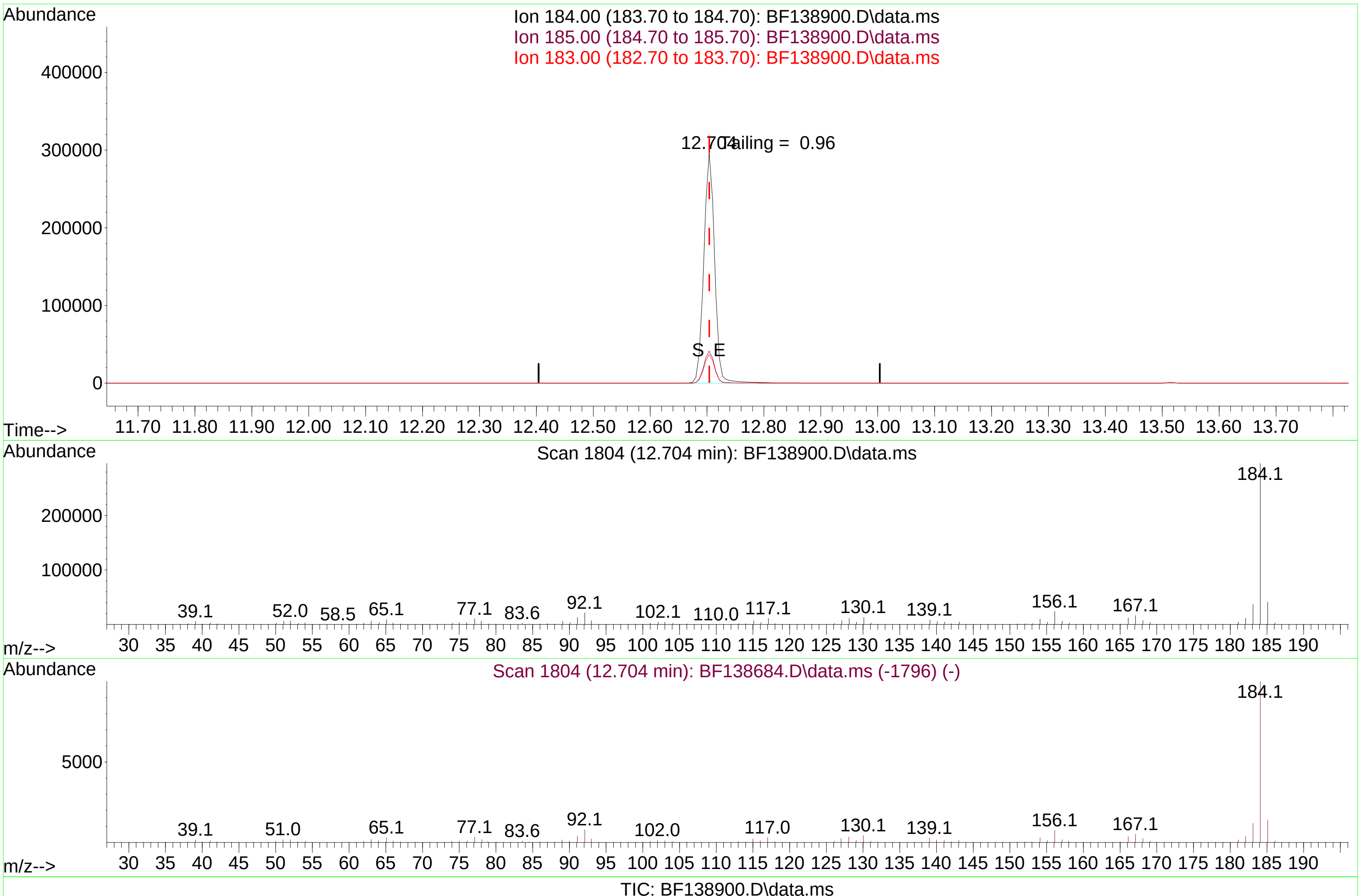
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	61.50	64.11
264.00	62.20	63.74
0.00	0.00	0.00

Sample Results: **BF138900.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138900.D
Acq On : 10 Aug 2024 10:12
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 12 00:49:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



(77) Benzidine

12.704min (-0.000) 0.00 ng

response 391893

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	13.90	13.95
183.00	12.00	12.47
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/10/2024	BNA_F	BF138900.D
Compound Name	**Response**	**Retention Time**
DDT	206441	13.515
DDD	4194	13.245
DDE	1167	12.88
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5361	211802	2.53

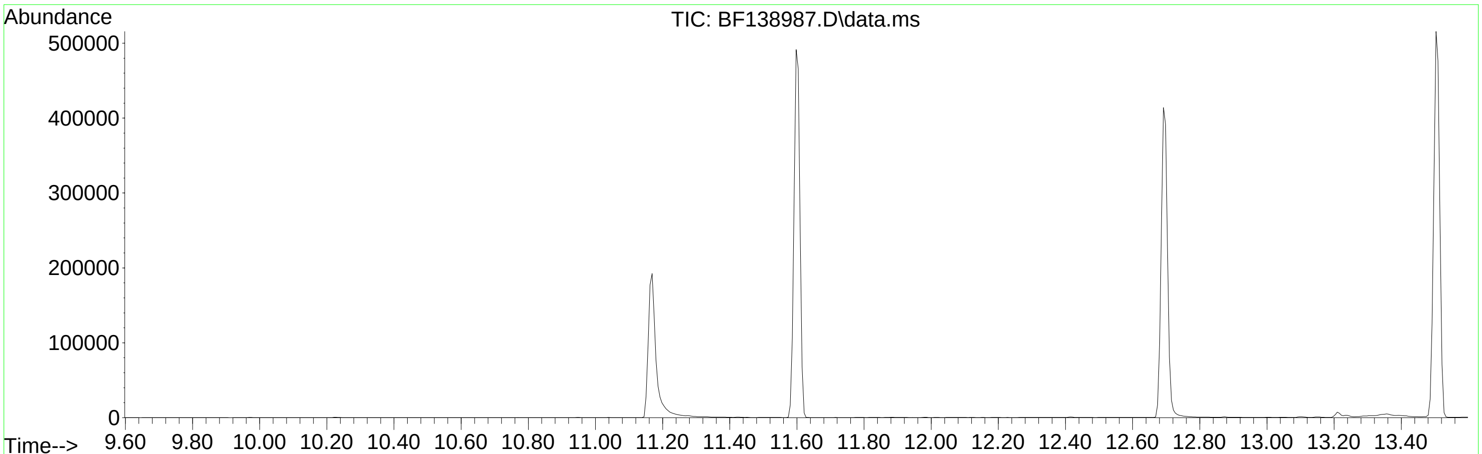
Sample Results: **BF138987.D**

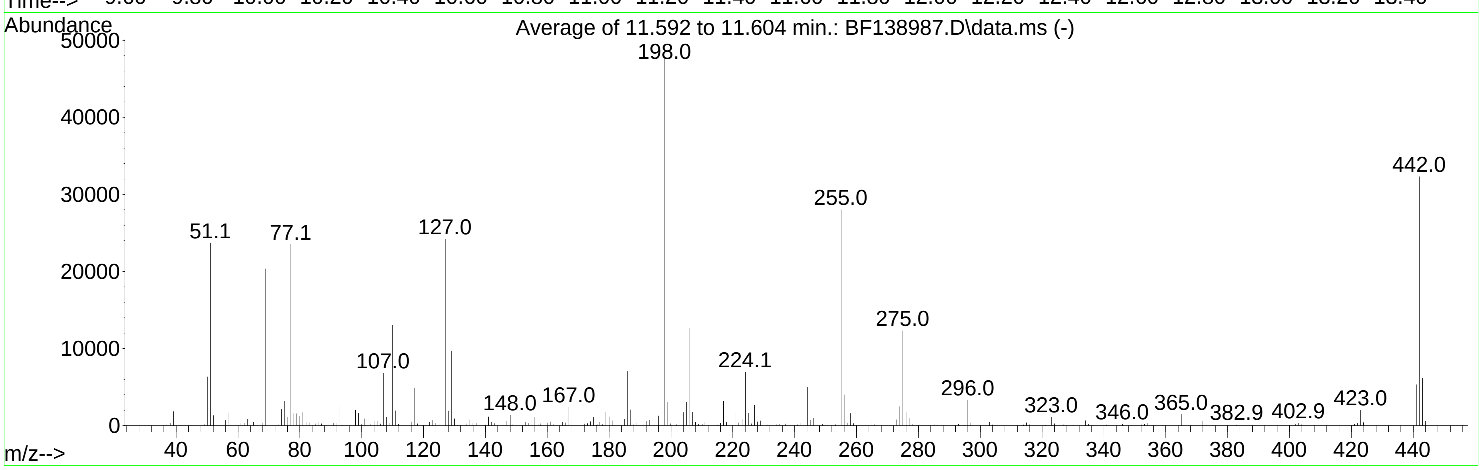
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138987.D
Acq On : 14 Aug 2024 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 30 17:50:01 2024





AutoFind: Scans 1615, 1616, 1617; Background Corrected with Scan 1609

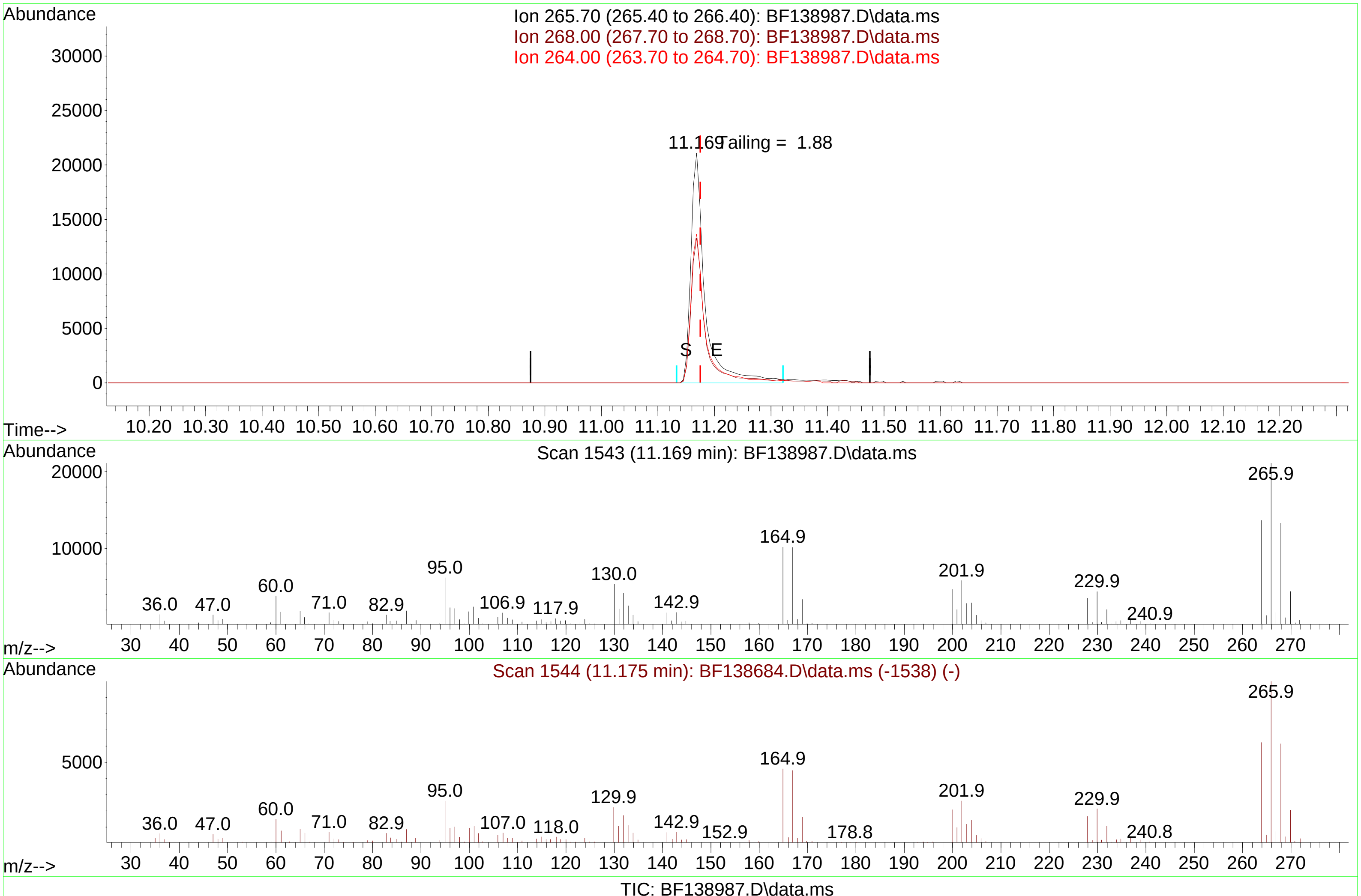
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	49.7	23707	PASS
68	69	0.00	2	1.8	376	PASS
69	198	0.00	100	42.6	20352	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	50.7	24208	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	47733	PASS
199	198	5	9	6.4	3077	PASS
275	198	10	60	25.8	12322	PASS
365	198	1	100	3.0	1447	PASS
441	198	0.01	100	11.1	5317	PASS
442	442	50	100	100.0	32304	PASS
443	442	15	24	18.9	6121	PASS

Sample Results: **BF138987.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138987.D
Acq On : 14 Aug 2024 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 14 12:15:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



(70) Pentachlorophenol (C)

11.169min (-0.006) 42832.92 ng

response 37122

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	61.50	63.09
264.00	62.20	64.73
0.00	0.00	0.00

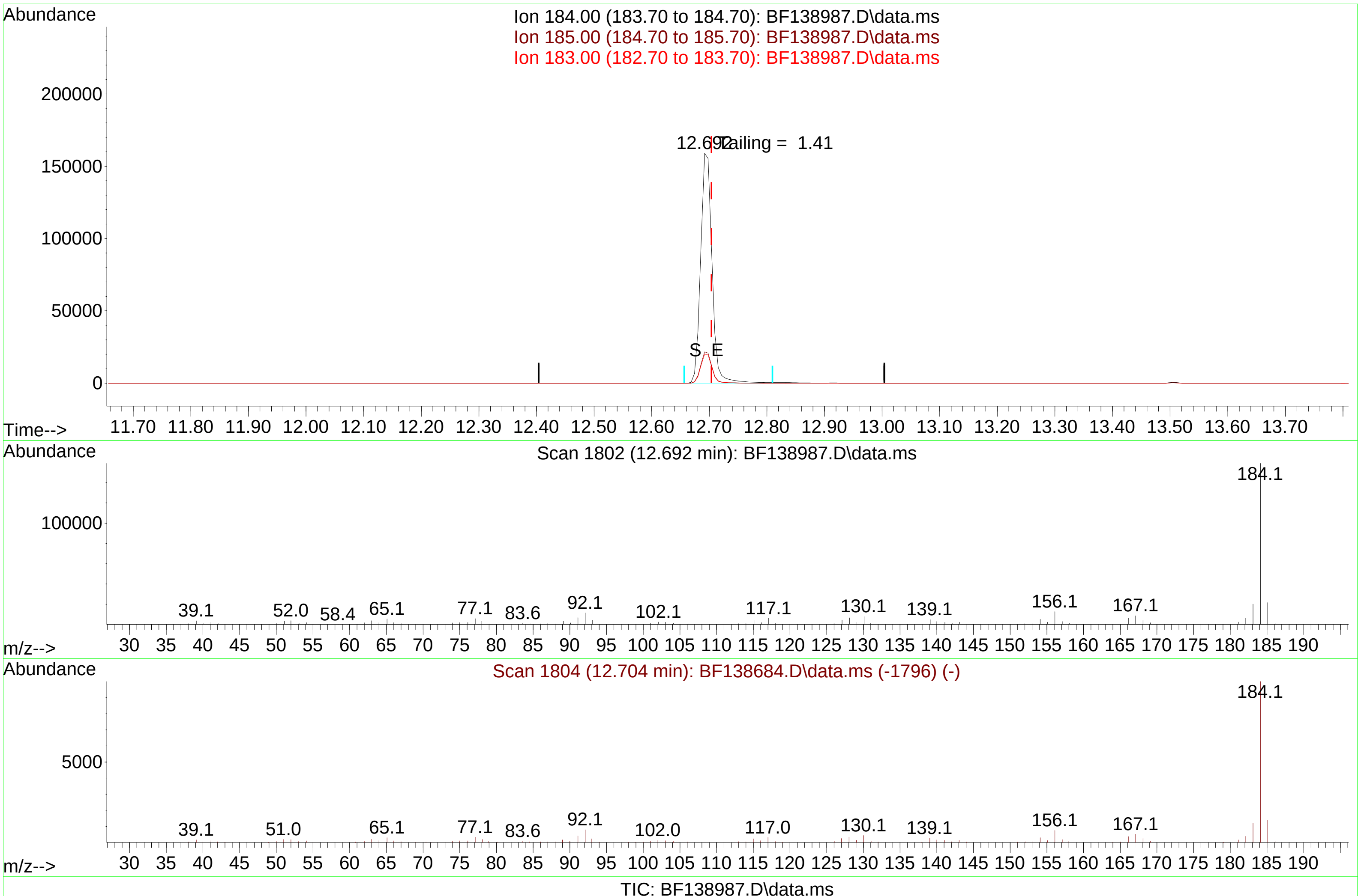
Quantitation Report (Qedit)

Sample Results: **BF138987.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138987.D
Acq On : 14 Aug 2024 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 14 12:15:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



(77) Benzidine

12.692min (-0.012) 0.00 ng

response 218193

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	13.90	13.59
183.00	12.00	12.68
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/14/2024	BNA_F	BF138987.D
Compound Name	**Response**	**Retention Time**
DDT	122337	13.504
DDD	3496	13.21
DDE	243	12.874
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
3739	126076	2.97

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162489BL	SDG No.:	P3467
Lab Sample ID:	PB162489BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group6
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF138885.D	1	08/05/24 08:25	08/09/24 12:55	PB162489

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.00	ug/L
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L

Raw Data: **BF138885.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162489BL	SDG No.:	P3467
Lab Sample ID:	PB162489BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group6
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF138885.D	1	08/05/24 08:25	08/09/24 12:55	PB162489

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
90-12-0	1-Methylnaphthalene	0.86	U	0.86	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	166		15 (10) - 110 (139)	110%	SPK: 150
13127-88-3	Phenol-d6	167	*	15 (10) - 110 (134)	111%	SPK: 150
4165-60-0	Nitrobenzene-d5	112		30 (49) - 130 (133)	112%	SPK: 100
321-60-8	2-Fluorobiphenyl	110		30 (52) - 130 (132)	110%	SPK: 100
118-79-6	2,4,6-Tribromophenol	182	*	15 (32) - 110 (145)	122%	SPK: 150
1718-51-0	Terphenyl-d14	136	*	30 (36) - 130 (145)	136%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	40100	6.84			
1146-65-2	Naphthalene-d8	166000	8.122			
15067-26-2	Acenaphthene-d10	99800	9.875			
1517-22-2	Phenanthrene-d10	189000	11.363			
1719-03-5	Chrysene-d12	112000	13.998			
1520-96-3	Perylene-d12	76000	15.468			

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

Quantitation Report (LSC Reviewed)

Sample Results: **BF138885.D**

Instrument :
BNA_F
ClientSampleId :
PB162489BL

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138885.D
Acq On : 09 Aug 2024 12:55
Operator : RC/JU
Sample : PB162489BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 13:17:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

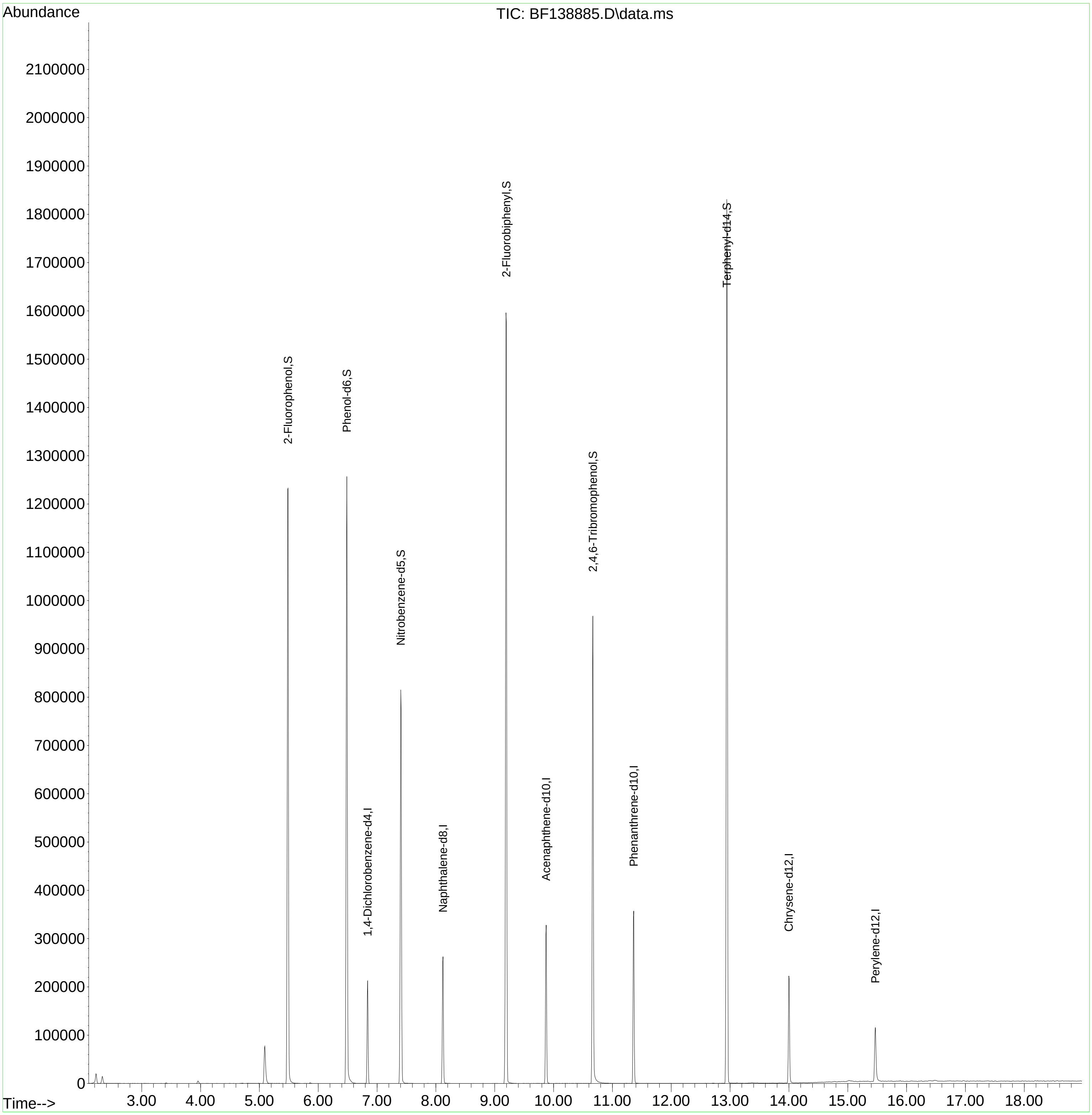
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.840	152	40127	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	165520	20.000	ng	0.00
39) Acenaphthene-d10	9.875	164	99849	20.000	ng	0.00
64) Phenanthrene-d10	11.363	188	189104	20.000	ng	0.00
76) Chrysene-d12	13.998	240	112088	20.000	ng	0.00
86) Perylene-d12	15.468	264	75976	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	430299	165.532	ng	0.02
7) Phenol-d6	6.487	99	582434	166.883	ng	0.00
23) Nitrobenzene-d5	7.404	82	380174	112.296	ng	0.00
42) 2,4,6-Tribromophenol	10.669	330	149189	182.406	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	732073	110.160	ng	0.00
79) Terphenyl-d14	12.945	244	910350	135.980	ng	0.00
Target Compounds						Qvalue

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

Sample Results: **BF138885.D**

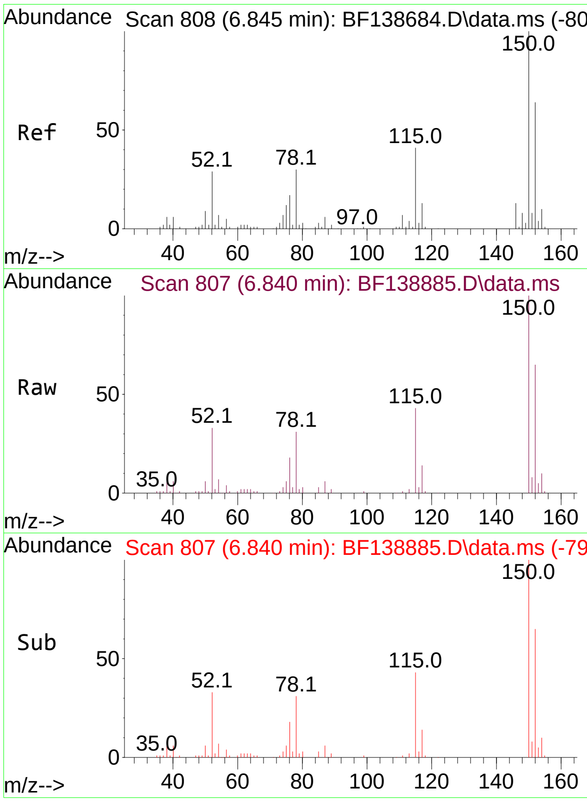
```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138885.D
Acq On    : 09 Aug 2024  12:55
Operator  : RC/JU
Sample    : PB162489BL
Misc      :
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Aug 09 13:17:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration
```

Instrument :
BNA_F
ClientSampleId :
PB162489BL



Sample Results: **BF138885.D**

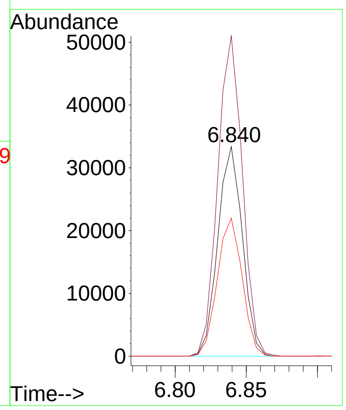
Instrument :
BNA_F
ClientSampleId :
PB162489BL

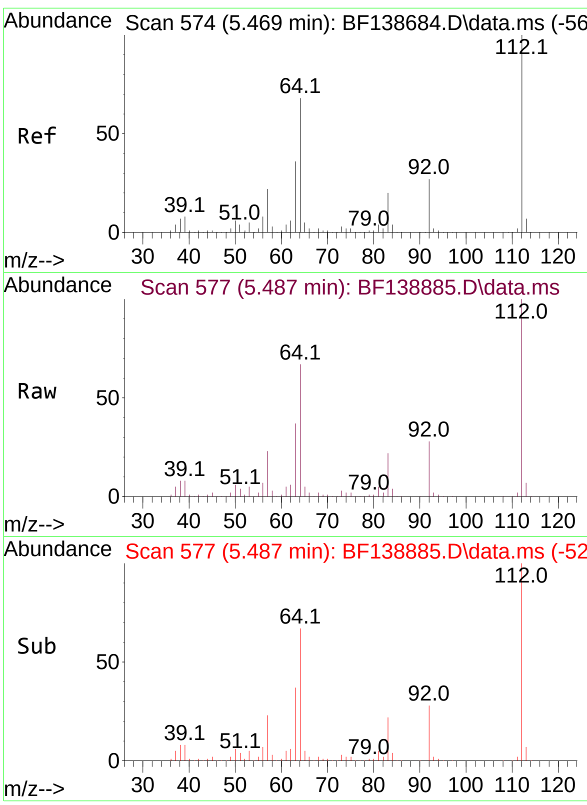


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min   Scan# 8
Delta R.T.   -0.005 min
Lab File: BF138885.D
Acq: 09 Aug 2024   12:55

Tgt Ion:152 Resp: 40127

Ion	Ratio	Lower	Upper
152	100		
150	152.8	126.0	189.0
115	65.9	51.7	77.5

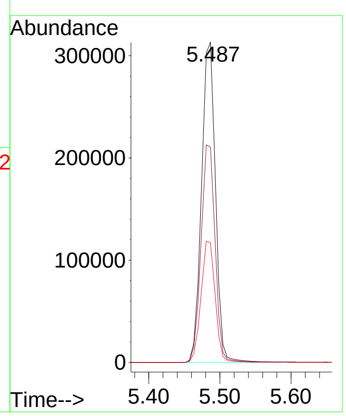




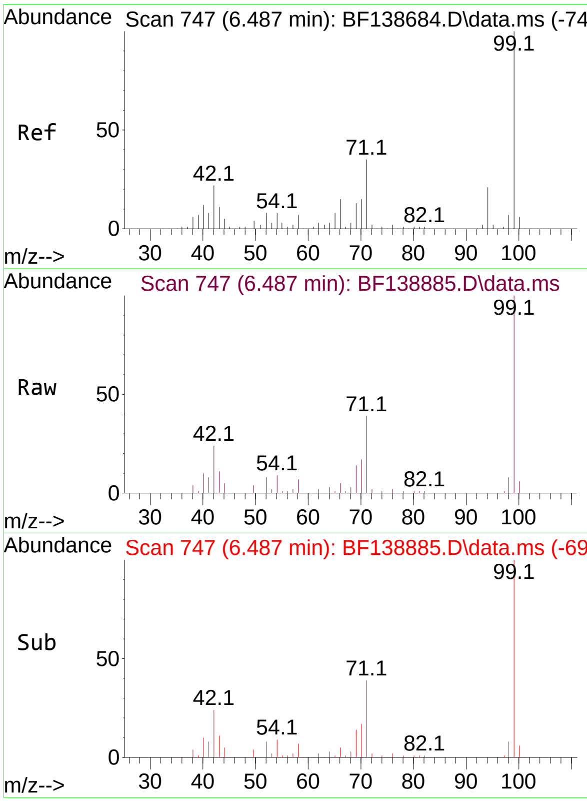
#5
2-Fluorophenol
Concen: 165.532 ng
RT: 5.487 min   Scan# 577
Delta R.T.   0.018 min
Lab File: BF138885.D
Acq: 09 Aug 2024   12:55

Tgt Ion:112 Resp: 430299

Ion	Ratio	Lower	Upper
112	100		
64	67.3	54.2	81.4
63	37.5	28.7	43.1



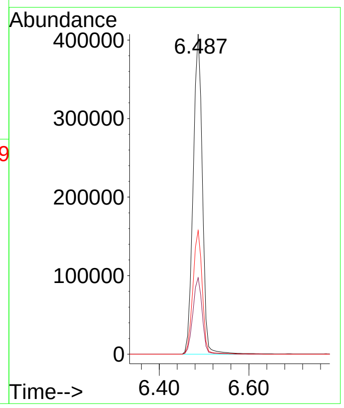
Instrument :
BNA_F
ClientSampleId :
PB162489BL

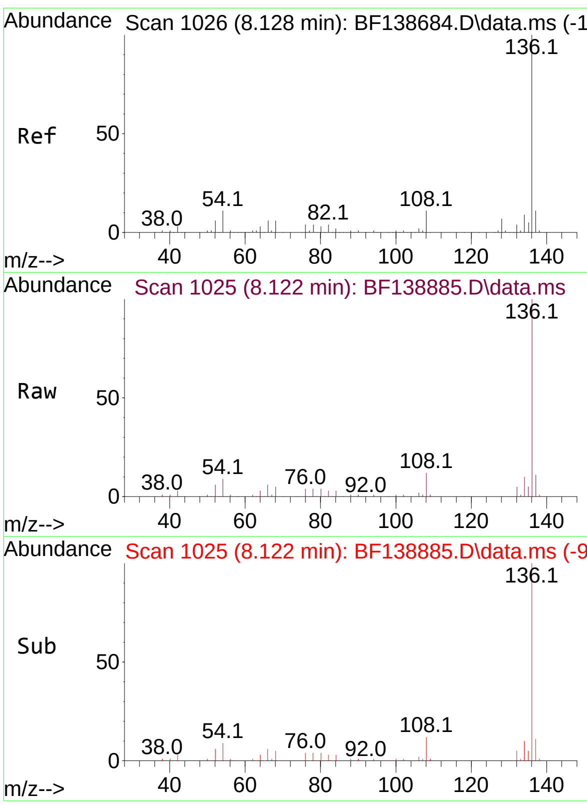


#7
Phenol-d6
Concen: 166.883 ng
RT: 6.487 min Scan# 74
Delta R.T. -0.000 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion: 99 Resp: 582434

Ion	Ratio	Lower	Upper
99	100		
42	23.9	17.4	26.0
71	38.7	28.1	42.1

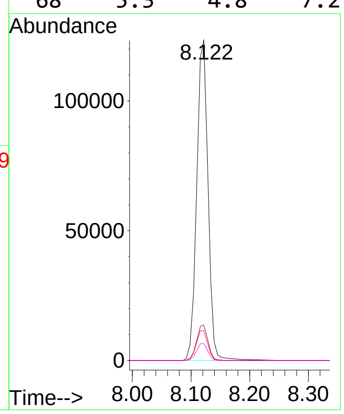




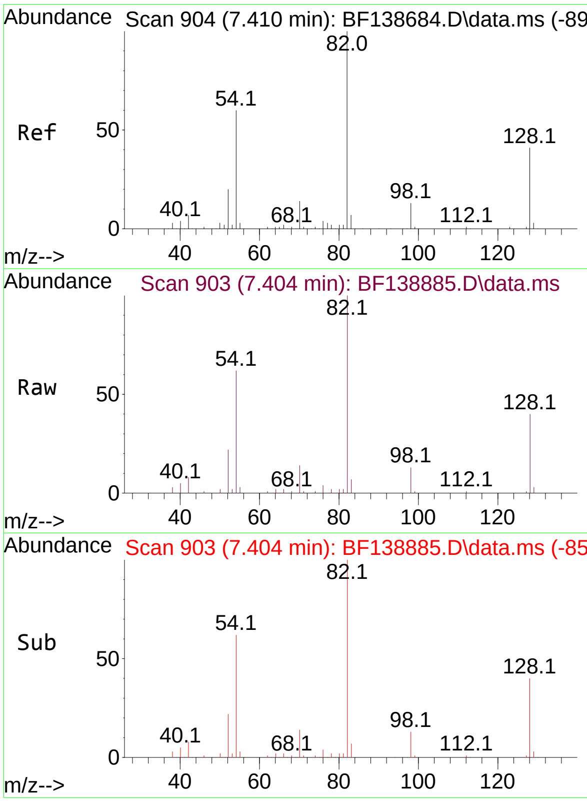
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion:136 Resp: 165520

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	9.3	8.6	12.8
68	5.3	4.8	7.2



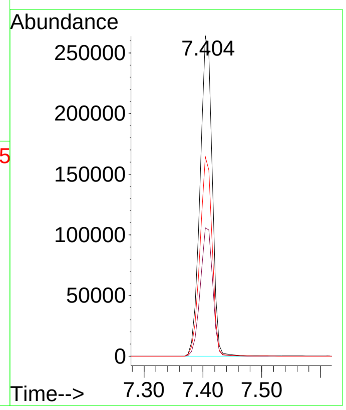
Instrument :
BNA_F
ClientSampleId :
PB162489BL

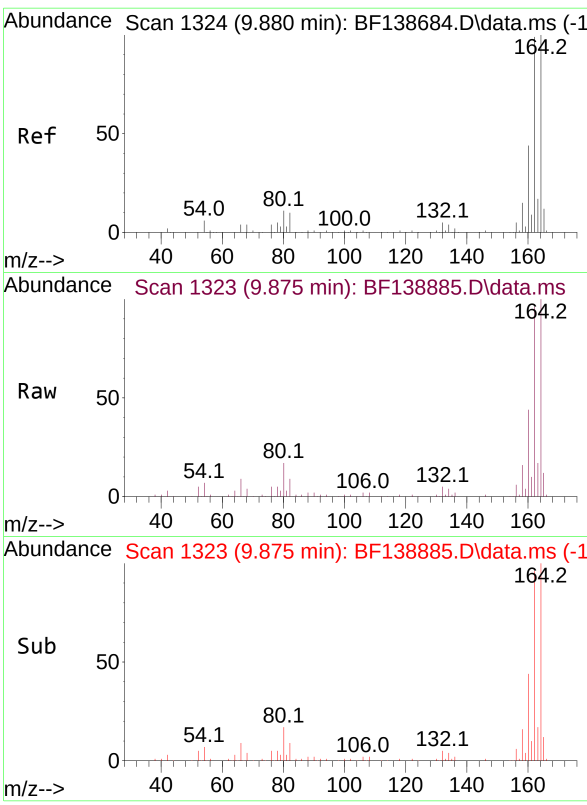


#23
Nitrobenzene-d5
Concen: 112.296 ng
RT: 7.404 min Scan# 90
Delta R.T. -0.006 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion: 82 Resp: 380174

Ion	Ratio	Lower	Upper
82	100		
128	40.1	32.8	49.2
54	62.3	48.3	72.5

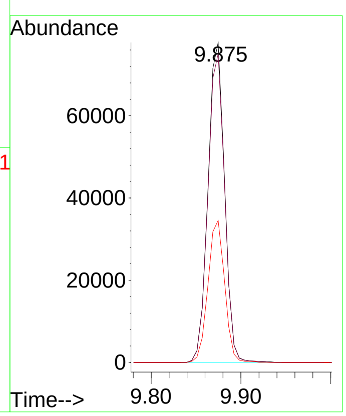




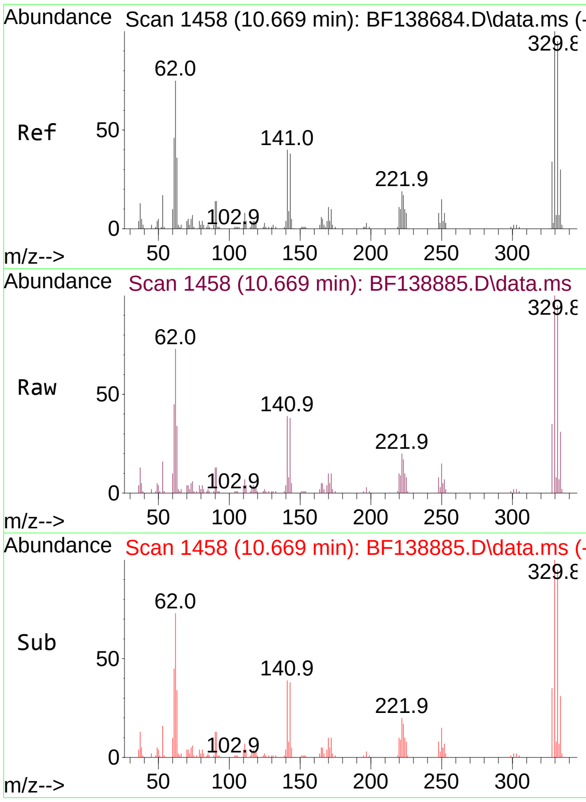
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 1323
Delta R.T. -0.005 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion:164 Resp: 99849

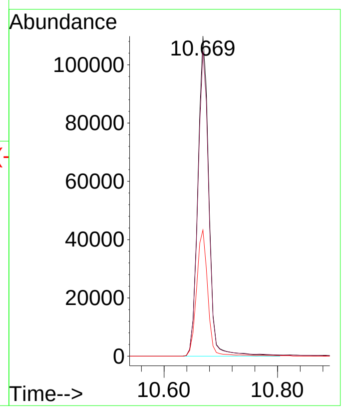
Ion	Ratio	Lower	Upper
164	100		
162	96.5	79.4	119.0
160	44.4	35.1	52.7

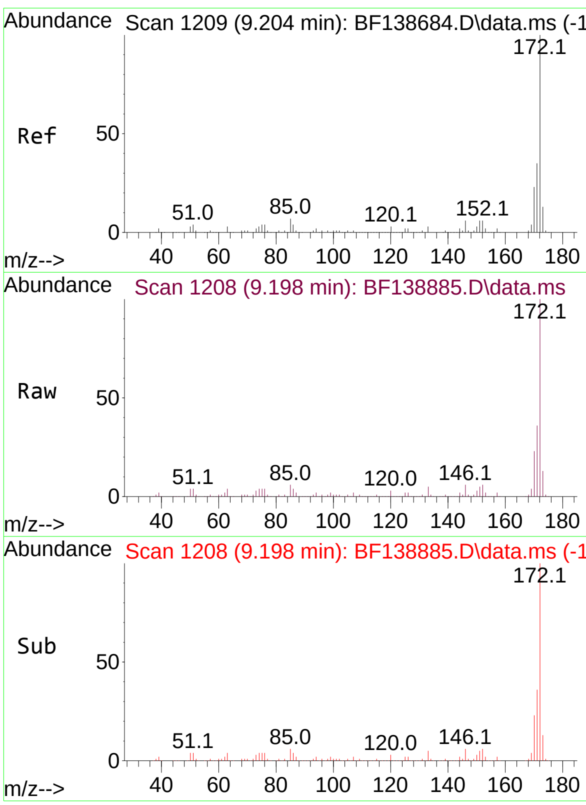


Instrument :
BNA_F
ClientSampleId :
PB162489BL

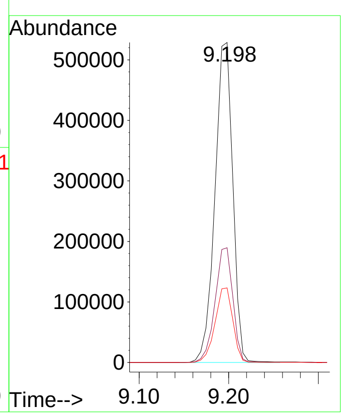



```
#42
2,4,6-Tribromophenol
Concen:  182.406 ng
RT:  10.669 min  Scan# 14
Delta R.T.   -0.000 min
Lab File:   BF138885.D
Acq: 09 Aug 2024  12:55

Tgt Ion:330 Resp:  149189
Ion  Ratio  Lower  Upper
330  100
332   94.8   76.4  114.6
141   39.8   31.1   46.7
```

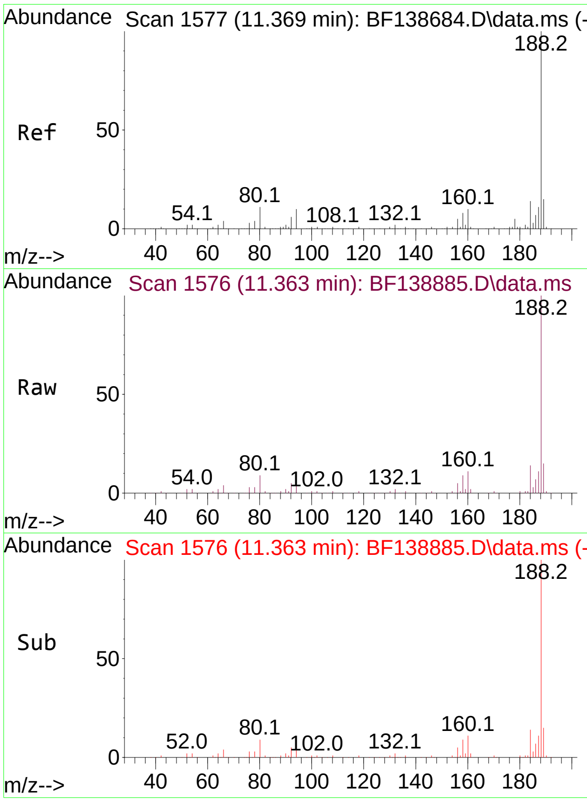




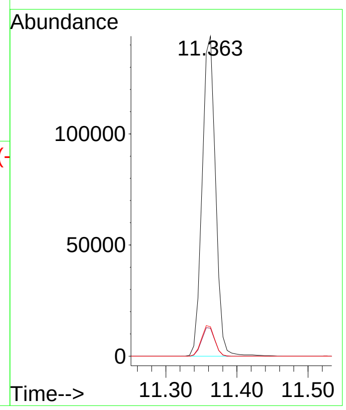

```
#45
2-Fluorobiphenyl
Concen:  110.160 ng
RT:   9.198 min  Scan# 1208
Delta R.T.   -0.006 min
Lab File:   BF138885.D
Acq: 09 Aug 2024  12:55

Tgt Ion:172 Resp:  732073
Ion  Ratio  Lower  Upper
172  100
171   35.8   28.3   42.5
170   23.3   18.8   28.2
```

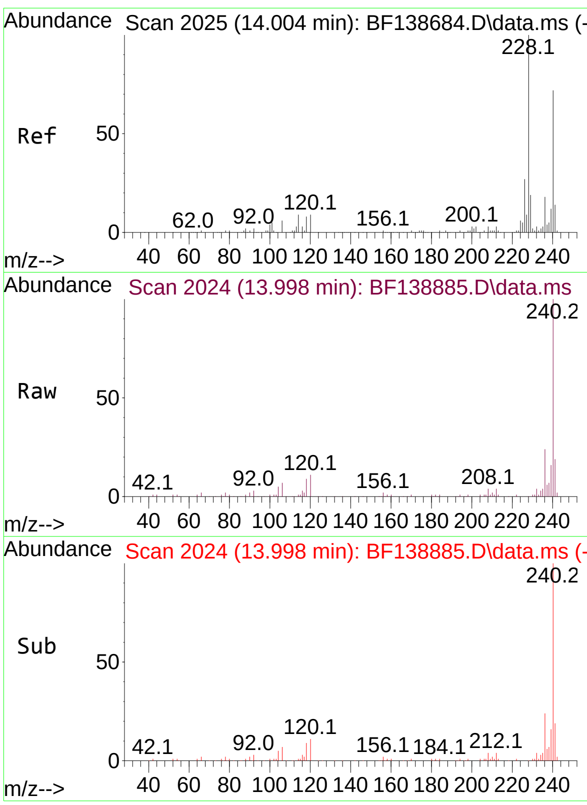


Instrument : BNA_F
ClientSampleId : PB162489BL

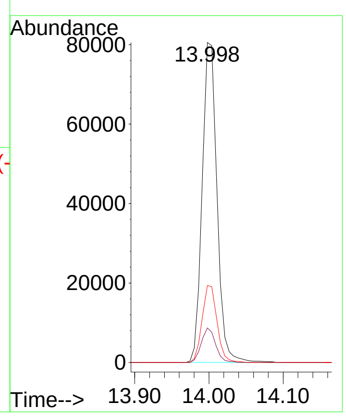



```
#64
Phenanthrene-d10
Concen:   20.000 ng
RT:  11.363 min  Scan# 1
Delta R.T.   -0.006 min
Lab File:   BF138885.D
Acq: 09 Aug 2024  12:55

Tgt Ion:188 Resp:  189104
Ion  Ratio  Lower  Upper
188  100
 94    8.8    7.6   11.4
 80    9.2    8.6   12.8
```

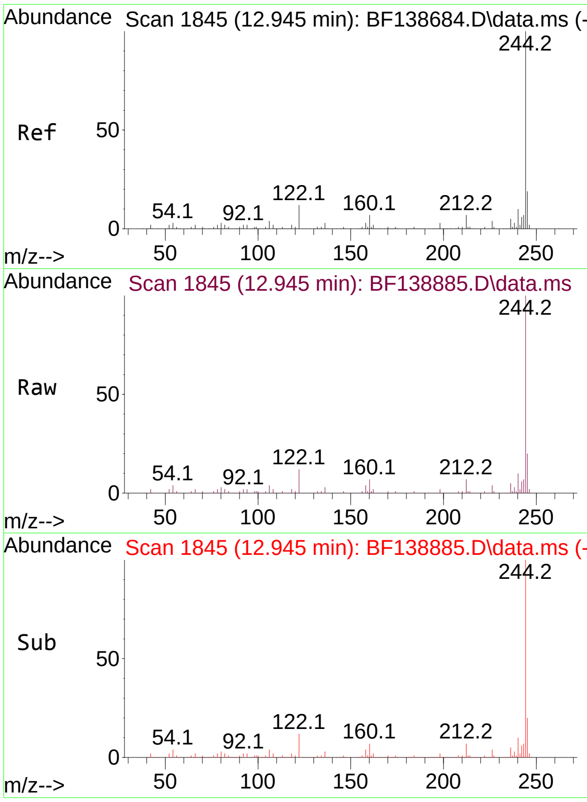





```
#76
Chrysene-d12
Concen:   20.000 ng
RT:  13.998 min  Scan# 2024
Delta R.T.   -0.006 min
Lab File:   BF138885.D
Acq: 09 Aug 2024  12:55

Tgt Ion:240 Resp:  112088
Ion  Ratio  Lower  Upper
240  100
120   10.8   10.2   15.4
236   24.0   19.8   29.8
```



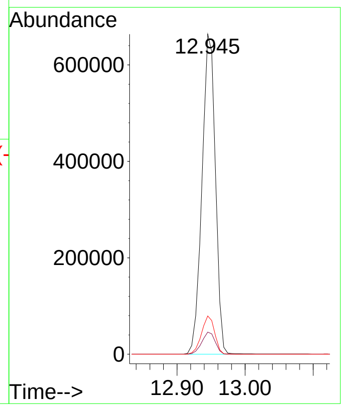
Instrument :
BNA_F
ClientSampleId :
PB162489BL

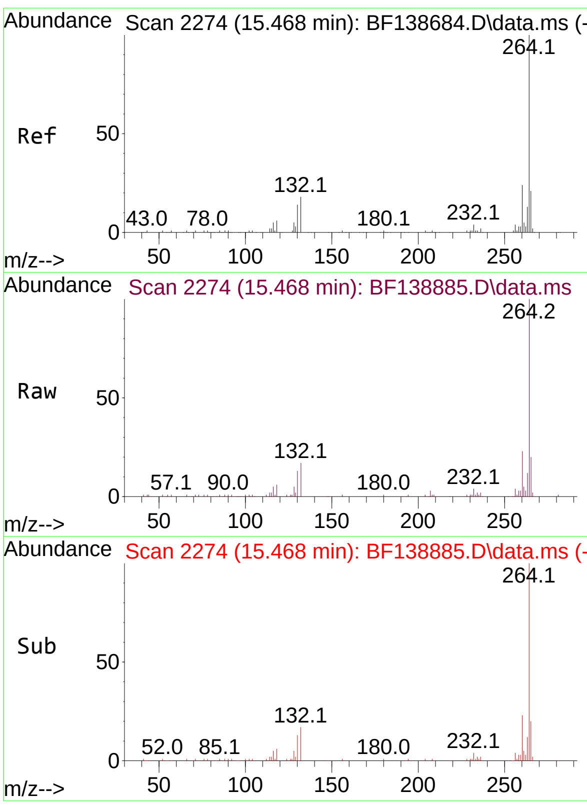


#79
Terphenyl-d14
Concen: 135.980 ng
RT: 12.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion:244 Resp: 910350

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.2
122	12.0	9.6	14.4

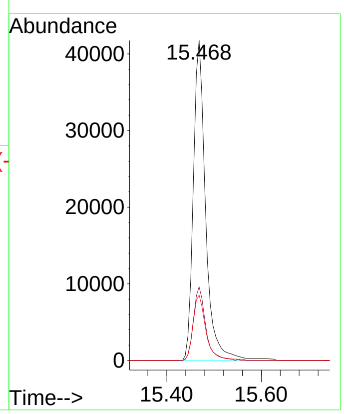




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion:264 Resp: 75976

Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.0	28.6
265	20.5	17.0	25.6



Raw Data: **BF138886.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162489BS	SDG No.:	P3467
Lab Sample ID:	PB162489BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group6
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF138886.D	1	08/05/24 08:25	08/09/24 13:25	PB162489

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	32.5		1.60	5.00	ug/L
100-52-7	Benzaldehyde	38.9		4.00	10.0	ug/L
95-48-7	2-Methylphenol	47.4		1.10	5.00	ug/L
98-86-2	Acetophenone	44.2		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	49.8		1.20	10.0	ug/L
98-95-3	Nitrobenzene	43.6		1.30	5.00	ug/L
120-83-2	2,4-Dichlorophenol	48.8		0.88	5.00	ug/L
91-20-3	Naphthalene	44.3		1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.1		1.30	5.00	ug/L
91-57-6	2-Methylnaphthalene	46.5		1.10	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	45.6		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	44.2		1.00	5.00	ug/L
208-96-8	Acenaphthylene	48.4		1.00	5.00	ug/L
83-32-9	Acenaphthene	43.5		0.81	5.00	ug/L
132-64-9	Dibenzofuran	46.4		0.93	5.00	ug/L
86-73-7	Fluorene	47.8		0.96	5.00	ug/L
118-74-1	Hexachlorobenzene	46.4		1.10	5.00	ug/L
87-86-5	Pentachlorophenol	75.1		1.90	10.0	ug/L
85-01-8	Phenanthrene	47.8		0.89	5.00	ug/L
86-74-8	Carbazole	46.7		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	55.8		1.50	5.00	ug/L
206-44-0	Fluoranthene	48.8		1.30	5.00	ug/L
129-00-0	Pyrene	50.1		1.10	5.00	ug/L
56-55-3	Benzo(a)anthracene	46.9		0.94	5.00	ug/L
218-01-9	Chrysene	48.2		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	46.5		1.90	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	48.7		1.10	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	57.5		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	53.0		1.70	5.00	ug/L

Raw Data: **BF138886.D**

Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.		Date Collected:		
Project:	Former Schlumberger Site Princeton NJ		Date Received:		
Client Sample ID:	PB162489BS		SDG No.:	P3467	
Lab Sample ID:	PB162489BS		Matrix:	Water	
Analytical Method:	SW8270		% Solid:	0	
Sample Wt/Vol:	1000 Units: mL		Final Vol:	1000	uL
Soil Aliquot Vol:	uL		Test:	SVOCMS Group6	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF138886.D	1	08/05/24 08:25	08/09/24 13:25	PB162489

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
193-39-5	Indeno(1,2,3-cd)pyrene	47.2		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.7		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	41.2		1.20	5.00	ug/L
123-91-1	1,4-Dioxane	30.1		1.30	5.00	ug/L
90-12-0	1-Methylnaphthalene	43.6		0.86	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	130		15 (10) - 110 (139)	87%	SPK: 150
13127-88-3	Phenol-d6	129		15 (10) - 110 (134)	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.0		30 (49) - 130 (133)	85%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.9		30 (52) - 130 (132)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	139		15 (32) - 110 (145)	92%	SPK: 150
1718-51-0	Terphenyl-d14	116		30 (36) - 130 (145)	116%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	55900	6.84			
1146-65-2	Naphthalene-d8	237000	8.122			
15067-26-2	Acenaphthene-d10	136000	9.881			
1517-22-2	Phenanthrene-d10	232000	11.363			
1719-03-5	Chrysene-d12	114000	14.004			
1520-96-3	Perylene-d12	96900	15.463			

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

Sample Results: **BF138886.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138886.D
Acq On : 09 Aug 2024 13:25
Operator : RC/JU
Sample : PB162489BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

Quant Time: Aug 09 13:56:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.840	152	55937	20.000	ng		0.00
21) Naphthalene-d8	8.122	136	237308	20.000	ng		0.00
39) Acenaphthene-d10	9.881	164	135700	20.000	ng		0.00
64) Phenanthrene-d10	11.363	188	232367	20.000	ng		0.00
76) Chrysene-d12	14.004	240	113862	20.000	ng		0.00
86) Perylene-d12	15.463	264	96864	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	471812	130.202	ng		0.02
7) Phenol-d6	6.493	99	628804	129.246	ng		0.00
23) Nitrobenzene-d5	7.410	82	412816	85.050	ng		0.00
42) 2,4,6-Tribromophenol	10.675	330	154182	138.707	ng		0.00
45) 2-Fluorobiphenyl	9.198	172	784869	86.902	ng		0.00
79) Terphenyl-d14	12.945	244	791548	116.392	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.716	88	47828	30.148	ng		97
3) Pyridine	3.463	79	124988	32.523	ng		96
4) n-Nitrosodimethylamine	3.434	42	116301	50.811	ng		84
6) Aniline	6.510	93	143736	33.128	ng	#	16
8) 2-Chlorophenol	6.634	128	185399	48.629	ng		98
9) Benzaldehyde	6.398	77	113590	38.948	ng		99
10) Phenol	6.510	94	243290	47.495	ng		86
11) bis(2-Chloroethyl)ether	6.581	93	174011	44.144	ng		100
12) 1,3-Dichlorobenzene	6.781	146	185110	43.375	ng		98
13) 1,4-Dichlorobenzene	6.857	146	192246	44.637	ng		99
14) 1,2-Dichlorobenzene	7.010	146	185605	46.113	ng		99
15) Benzyl Alcohol	6.993	79	178912	51.022	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.110	45	295135	43.506	ng	#	47
17) 2-Methylphenol	7.110	107	149237	47.404	ng	#	86
18) Hexachloroethane	7.345	117	73829	45.540	ng		97
19) n-Nitroso-di-n-propyla...	7.263	70	144362	49.128	ng		98
20) 3+4-Methylphenols	7.263	107	201207	49.813	ng	#	79
22) Acetophenone	7.257	105	256780	44.193	ng		98
24) Nitrobenzene	7.434	77	215325	43.596	ng		99
25) Isophorone	7.669	82	383539	46.276	ng		98
26) 2-Nitrophenol	7.745	139	98435	46.324	ng		95
27) 2,4-Dimethylphenol	7.787	122	127315	50.076	ng		98
28) bis(2-Chloroethoxy)met...	7.875	93	223265	44.236	ng		99
29) 2,4-Dichlorophenol	7.992	162	159462	48.810	ng		99
30) 1,2,4-Trichlorobenzene	8.063	180	168771	44.765	ng		99
31) Naphthalene	8.145	128	553254	44.292	ng		100
32) Benzoic acid	7.945	122	72059	36.056	ng		97
33) 4-Chloroaniline	8.198	127	88100	21.011	ng		98
34) Hexachlorobutadiene	8.257	225	100753	44.120	ng		100
35) Caprolactam	8.592	113	40480m	41.525	ng		
36) 4-Chloro-3-methylphenol	8.698	107	181168	48.523	ng		99
37) 2-Methylnaphthalene	8.834	142	367005	46.522	ng		99
38) 1-Methylnaphthalene	8.934	142	337008	43.596	ng		97
40) 1,2,4,5-Tetrachloroben...	9.004	216	158491	42.045	ng		99
41) Hexachlorocyclopentadiene	8.981	237	106892	104.770	ng		99
43) 2,4,6-Trichlorophenol	9.122	196	104792	45.594	ng		100

Sample Results: **BF138886.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138886.D
Acq On : 09 Aug 2024 13:25
Operator : RC/JU
Sample : PB162489BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

Quant Time: Aug 09 13:56:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.175	196	111079	44.209	ng		99
46) 1,1'-Biphenyl	9.298	154	439384	41.343	ng		100
47) 2-Chloronaphthalene	9.328	162	348295	44.064	ng		99
48) 2-Nitroaniline	9.434	65	124915	46.616	ng		99
49) Acenaphthylene	9.739	152	542094	48.356	ng		99
50) Dimethylphthalate	9.604	163	420510	48.463	ng		99
51) 2,6-Dinitrotoluene	9.675	165	89961	45.941	ng		93
52) Acenaphthene	9.916	154	327605	43.472	ng		99
53) 3-Nitroaniline	9.845	138	60421	29.847	ng		96
54) 2,4-Dinitrophenol	9.963	184	82333	91.337	ng		86
55) Dibenzofuran	10.086	168	493467	46.388	ng		99
56) 4-Nitrophenol	10.028	139	94576	77.691	ng		90
57) 2,4-Dinitrotoluene	10.081	165	121596	48.671	ng	#	80
58) Fluorene	10.428	166	404622	47.764	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.210	232	98092	51.065	ng		98
60) Diethylphthalate	10.304	149	418528	50.872	ng		100
61) 4-Chlorophenyl-phenyle...	10.416	204	197585	47.424	ng		96
62) 4-Nitroaniline	10.469	138	82366	42.815	ng		90
63) Azobenzene	10.581	77	433986	47.562	ng		96
65) 4,6-Dinitro-2-methylph...	10.498	198	68786	48.522	ng		97
66) n-Nitrosodiphenylamine	10.539	169	341567	47.026	ng		99
67) 4-Bromophenyl-phenylether	10.904	248	118122	46.952	ng		99
68) Hexachlorobenzene	10.975	284	120407	46.353	ng		99
69) Atrazine	11.069	200	102669	54.788	ng		98
70) Pentachlorophenol	11.181	266	87959	75.124	ng		95
71) Phenanthrene	11.392	178	572137	47.817	ng		100
72) Anthracene	11.445	178	577450	48.989	ng		100
73) Carbazole	11.598	167	475209	46.729	ng		99
74) Di-n-butylphthalate	11.922	149	637976	55.806	ng		100
75) Fluoranthene	12.575	202	545597	48.844	ng		99
77) Benzidine	12.698	184	35679	13.101	ng		97
78) Pyrene	12.810	202	537177	50.108	ng		100
80) Butylbenzylphthalate	13.416	149	194726	56.722	ng		97
81) Benzo(a)anthracene	13.992	228	367975	46.931	ng		99
82) 3,3'-Dichlorobenzidine	13.951	252	67353	33.568	ng		99
83) Chrysene	14.033	228	341211	48.235	ng		100
84) Bis(2-ethylhexyl)phtha...	13.969	149	233665	46.482	ng		99
85) Di-n-octyl phthalate	14.580	149	361869	38.907	ng		99
87) Indeno(1,2,3-cd)pyrene	16.945	276	327506	47.180	ng		96
88) Benzo(b)fluoranthene	15.039	252	292630	48.734	ng		98
89) Benzo(k)fluoranthene	15.069	252	298698	57.454	ng		98
90) Benzo(a)pyrene	15.404	252	267903	53.042	ng		98
91) Dibenzo(a,h)anthracene	16.951	278	266048	46.690	ng		98
92) Benzo(g,h,i)perylene	17.386	276	243369	41.158	ng		95

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

Quantitation Report (QT Reviewed)

Sample Results: **BF138886.D**

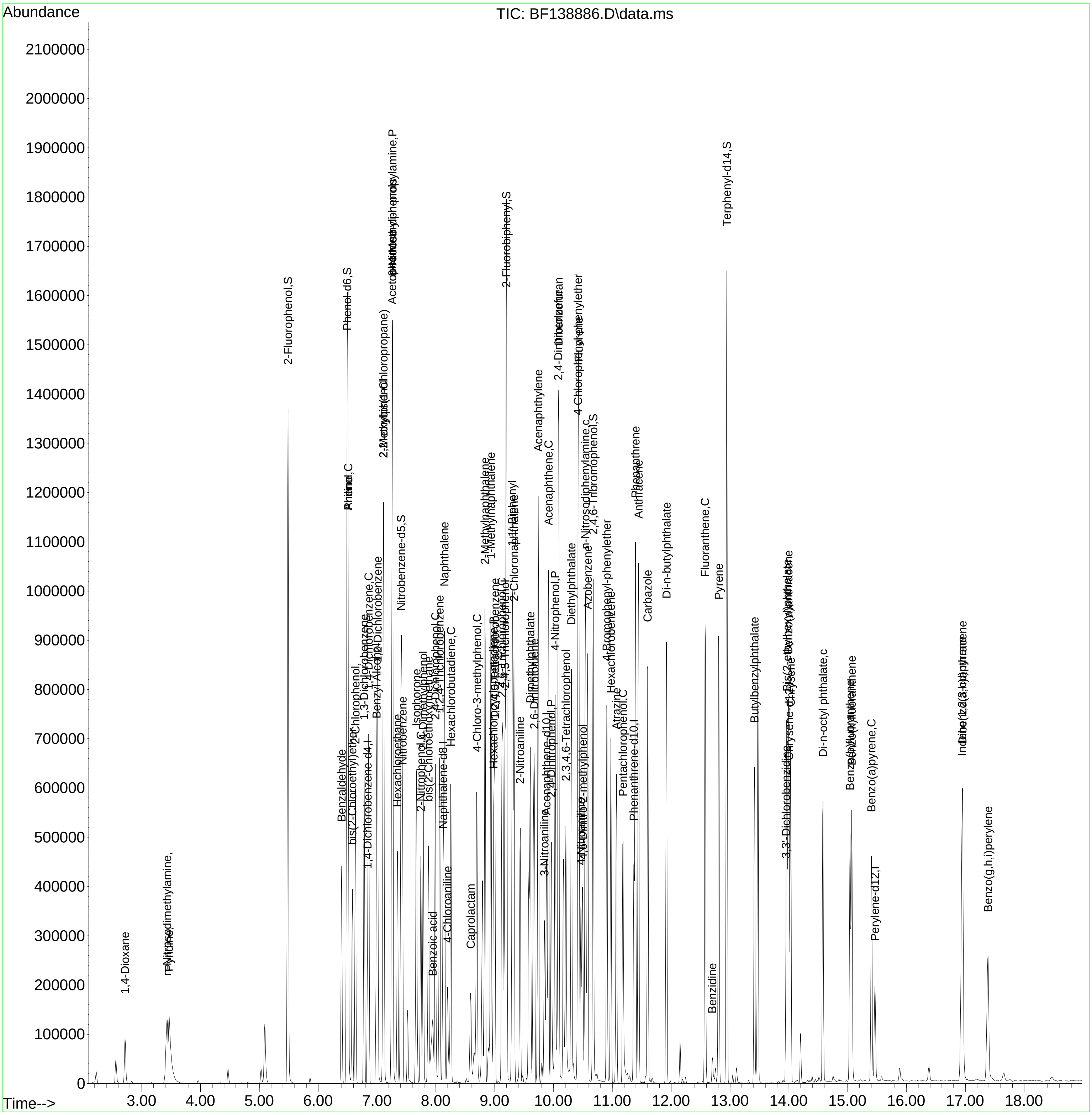
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138886.D
Acq On : 09 Aug 2024 13:25
Operator : RC/JU
Sample : PB162489BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 09 13:56:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

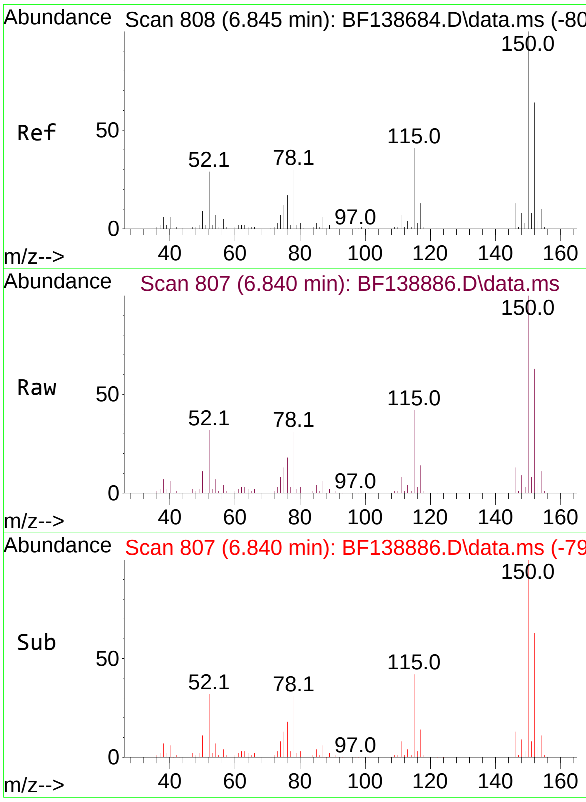
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

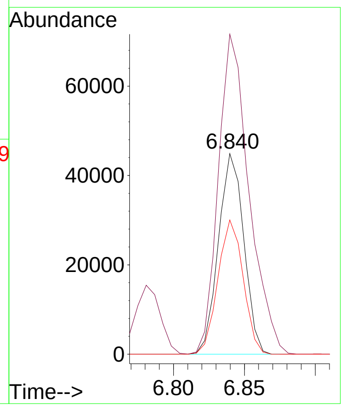
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

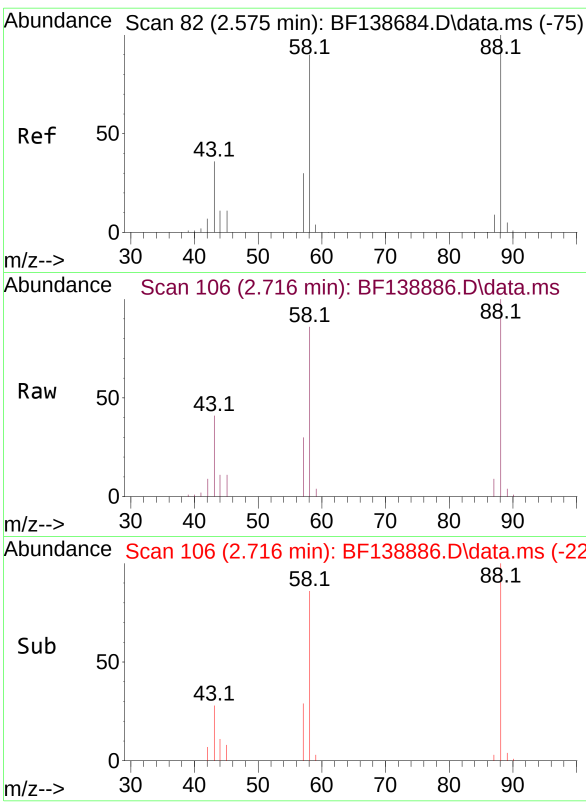


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 8(
Delta R.T. -0.005 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:152 Resp: 5593

Ion	Ratio	Lower	Upper
152	100		
150	159.5	126.0	189.0
115	66.9	51.7	77.5

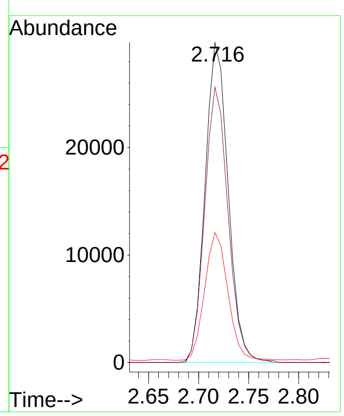




#2
1,4-Dioxane
Concen: 30.148 ng
RT: 2.716 min Scan# 106
Delta R.T. 0.141 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 88 Resp: 47828

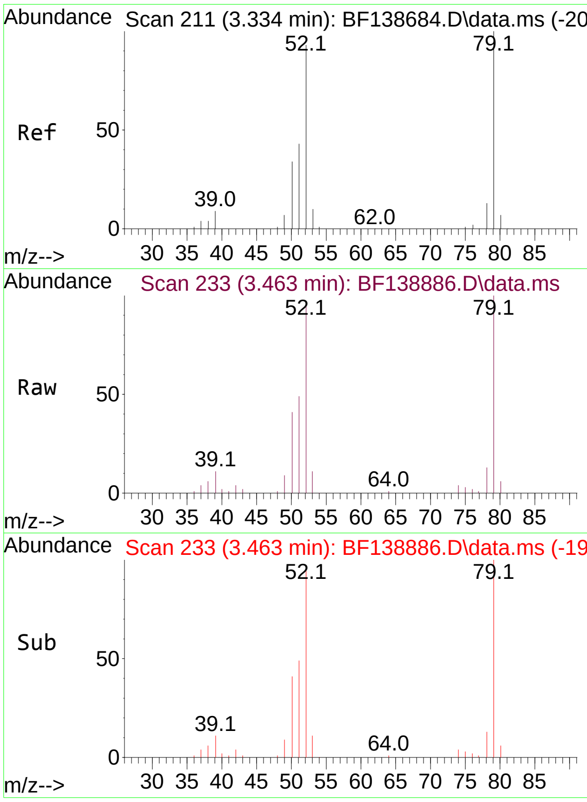
Ion	Ratio	Lower	Upper
88	100		
58	87.6	71.6	107.4
43	40.0	28.7	43.1



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED

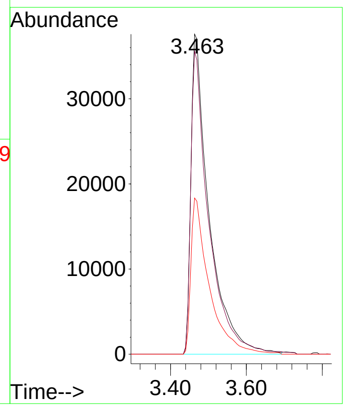
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

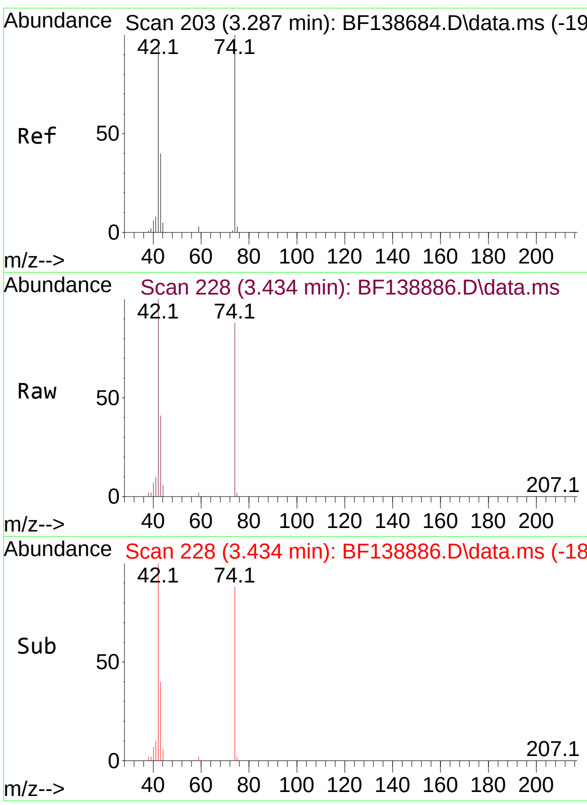


#3
Pyridine
Concen: 32.523 ng
RT: 3.463 min Scan# 2
Delta R.T. 0.130 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 79 Resp: 12498

Ion	Ratio	Lower	Upper
79	100		
52	94.7	74.7	112.1
51	48.8	34.6	51.8

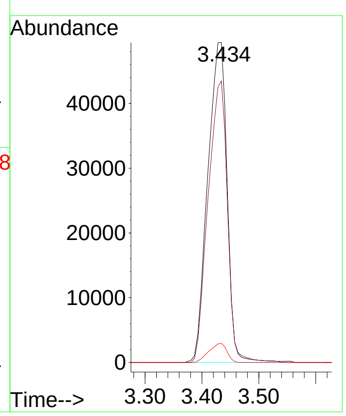


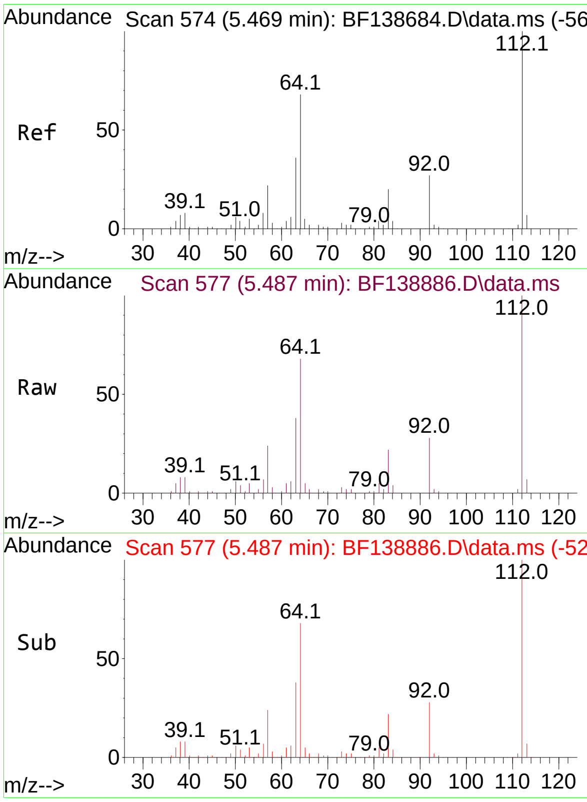


#4
n-Nitrosodimethylamine
Concen: 50.811 ng
RT: 3.434 min Scan# 228
Delta R.T. 0.147 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 42 Resp: 116301

Ion	Ratio	Lower	Upper
42	100		
74	87.9	84.2	126.4
44	6.0	4.9	7.3





#5
2-Fluorophenol
Concen: 130.202 ng
RT: 5.487 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

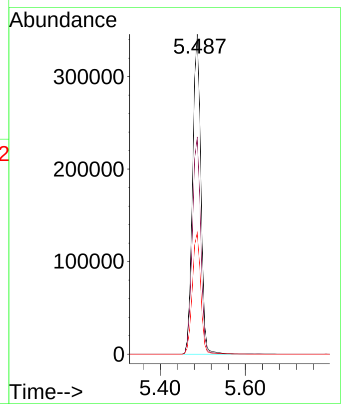
Instrument :
BNA_F
ClientSampleId :
PB162489BS

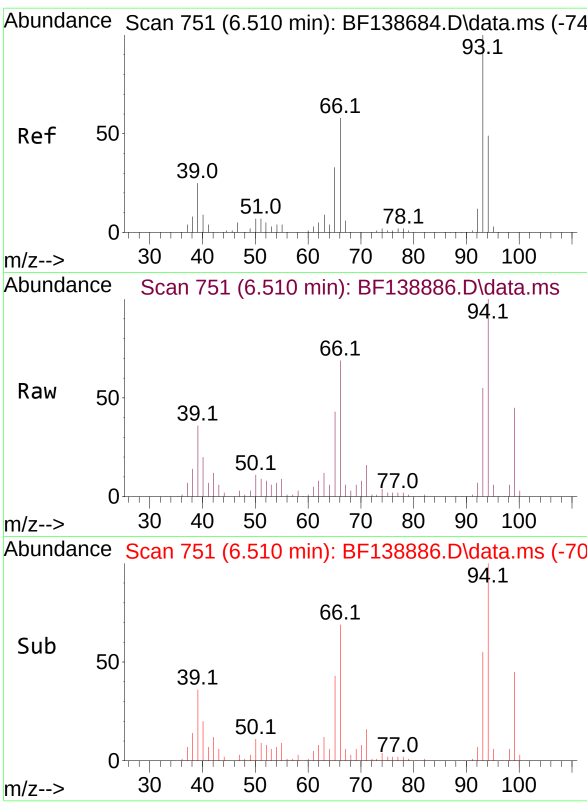
Tgt Ion:112 Resp: 47181

Ion	Ratio	Lower	Upper
112	100		
64	67.9	54.2	81.4
63	38.0	28.7	43.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

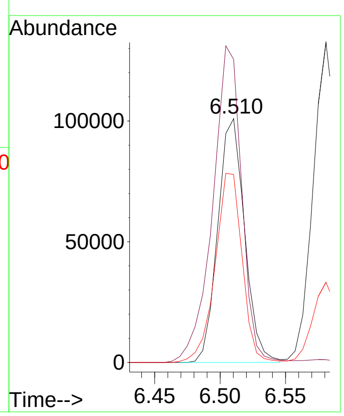




#6
Aniline
Concen: 33.128 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 93 Resp: 143736

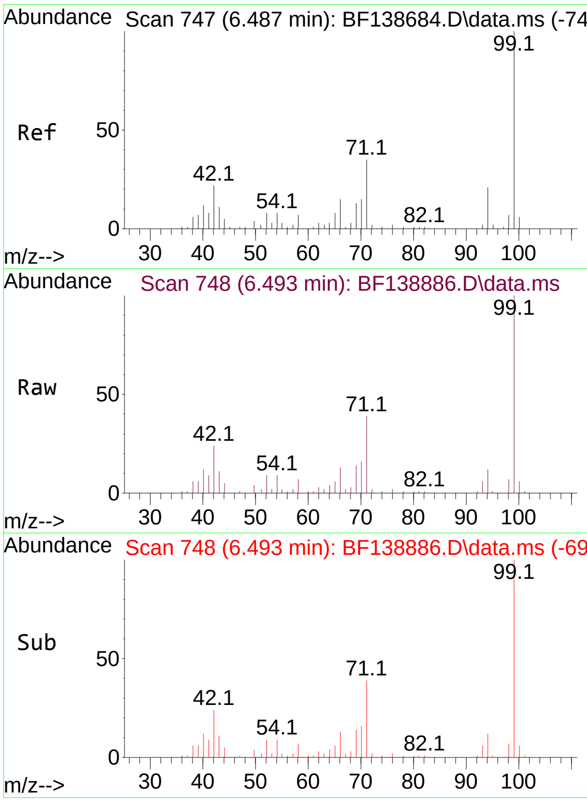
Ion	Ratio	Lower	Upper
93	100		
66	124.3	46.9	70.3#
65	77.1	26.5	39.7#



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED

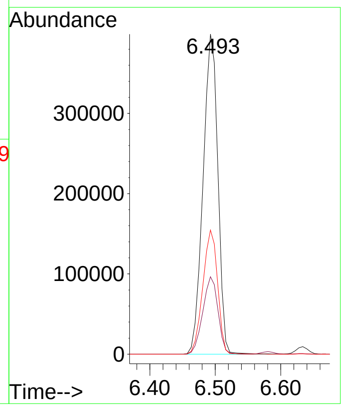
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

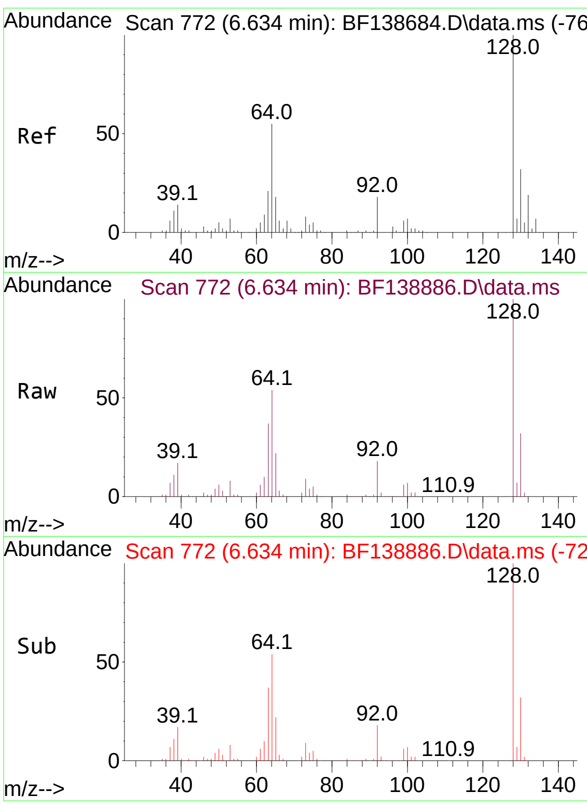


#7
Phenol-d6
Concen: 129.246 ng
RT: 6.493 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 99 Resp: 62880

Ion	Ratio	Lower	Upper
99	100		
42	24.2	17.4	26.0
71	38.8	28.1	42.1

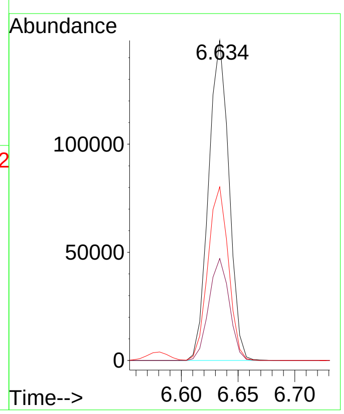


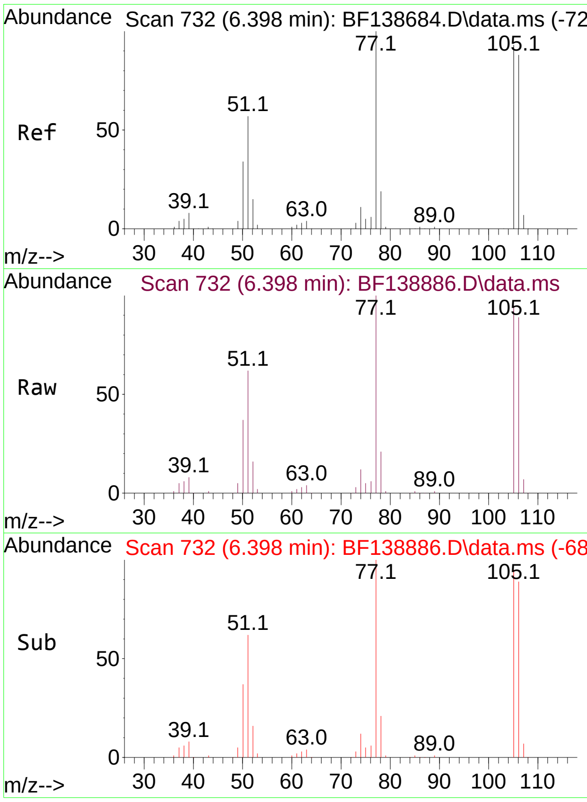


#8
2-Chlorophenol
Concen: 48.629 ng
RT: 6.634 min Scan# 772
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:128 Resp: 185399

Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.0	52.0
64	54.3	36.3	76.3





#9
Benzaldehyde
Concen: 38.948 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

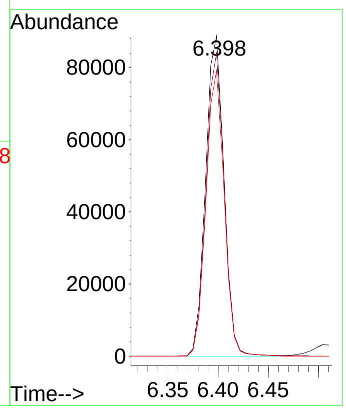
Tgt Ion: 77 Resp: 11359

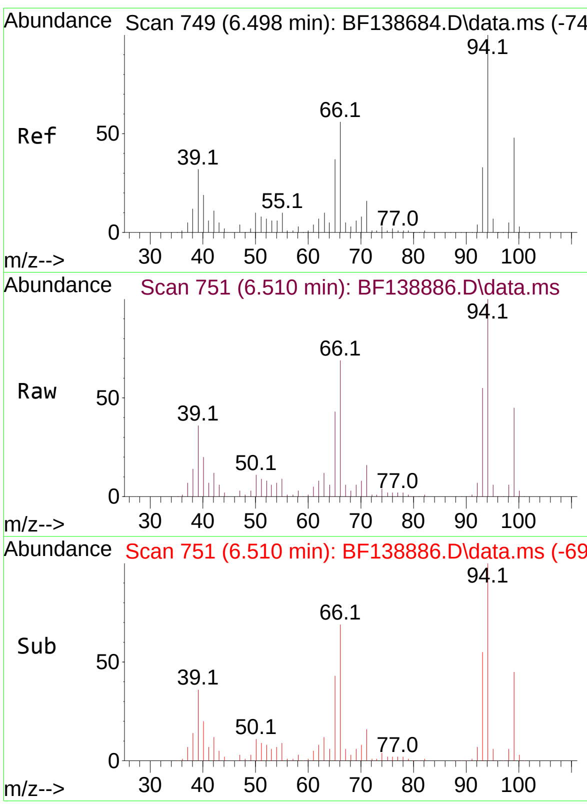
Ion	Ratio	Lower	Upper
77	100		
105	94.7	72.9	112.9
106	89.2	68.4	108.4

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

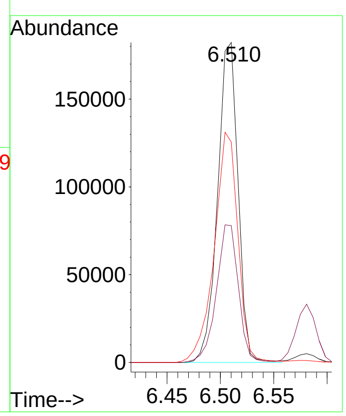


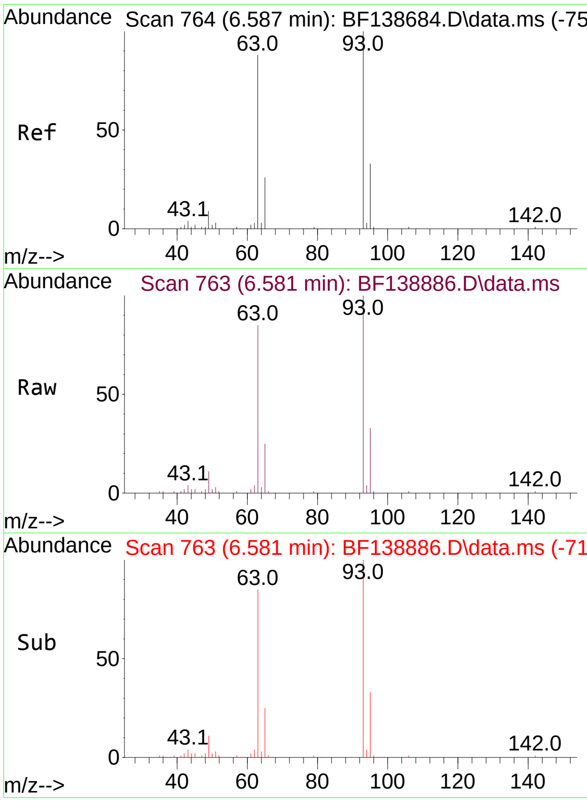


#10
Phenol
Concen: 47.495 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 94 Resp: 243290

Ion	Ratio	Lower	Upper
94	100		
65	42.7	16.9	56.9
66	68.9	36.5	76.5

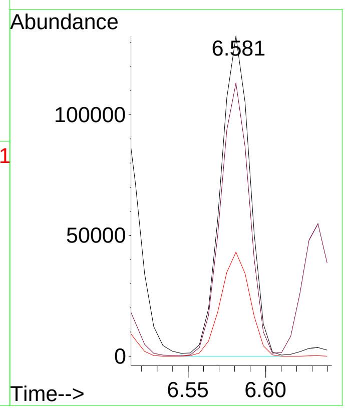




#11
bis(2-Chloroethyl)ether
Concen: 44.144 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

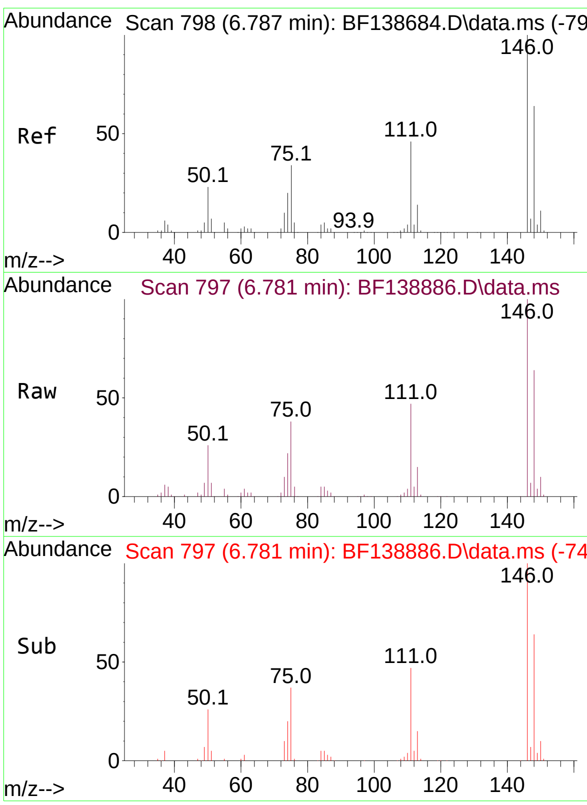
Tgt Ion: 93 Resp: 17401

Ion	Ratio	Lower	Upper
93	100		
63	85.4	65.3	105.3
95	32.5	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
PB162489BS

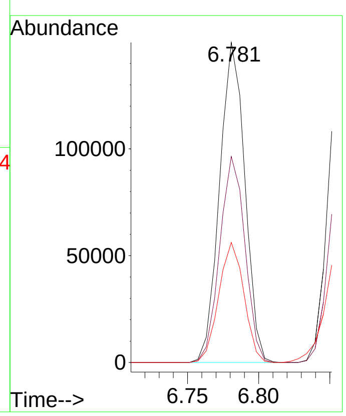
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

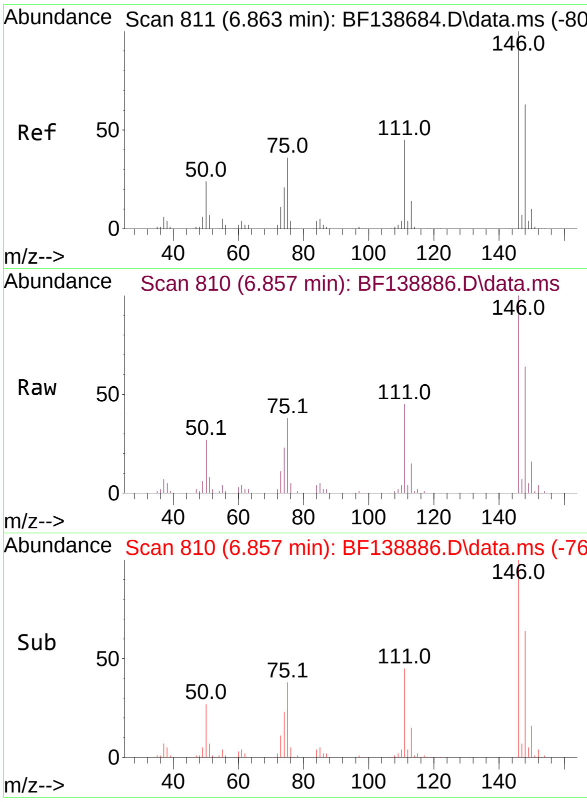


#12
1,3-Dichlorobenzene
Concen: 43.375 ng
RT: 6.781 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:146 Resp: 185110

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.2	76.8
75	37.5	27.4	41.2





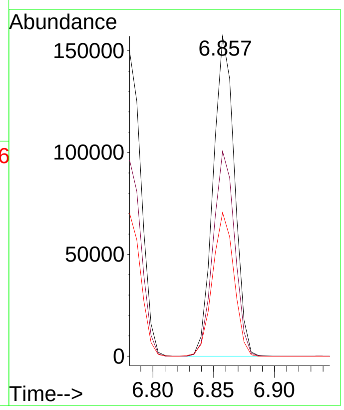
#13
1,4-Dichlorobenzene
Concen: 44.637 ng
RT: 6.857 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

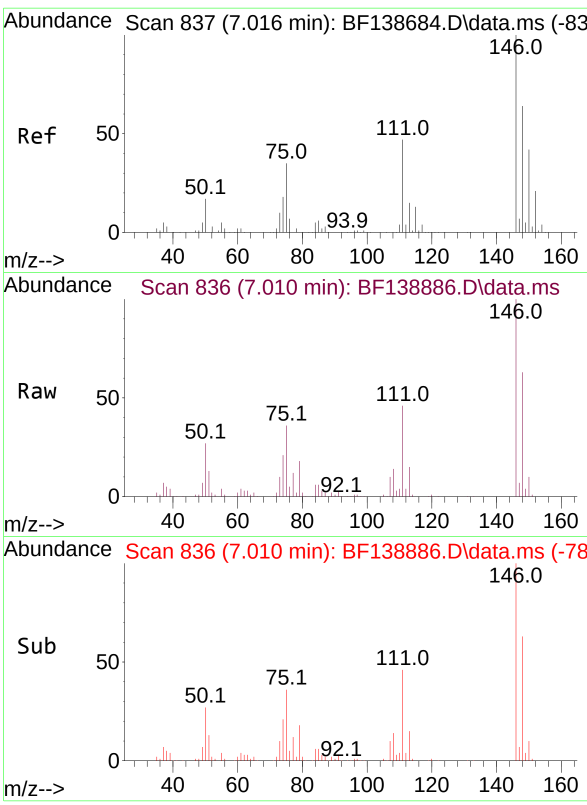
Tgt Ion:146 Resp: 19224

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.2	75.2
111	44.8	35.9	53.9

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

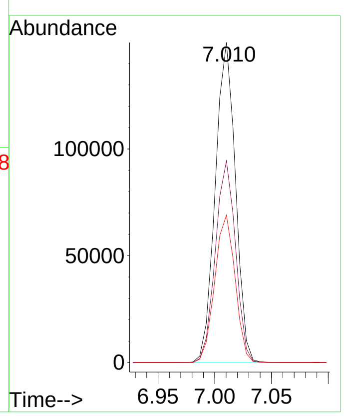




#14
1,2-Dichlorobenzene
Concen: 46.113 ng
RT: 7.010 min Scan# 836
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:146 Resp: 185605

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.8	76.2
111	46.1	37.4	56.2

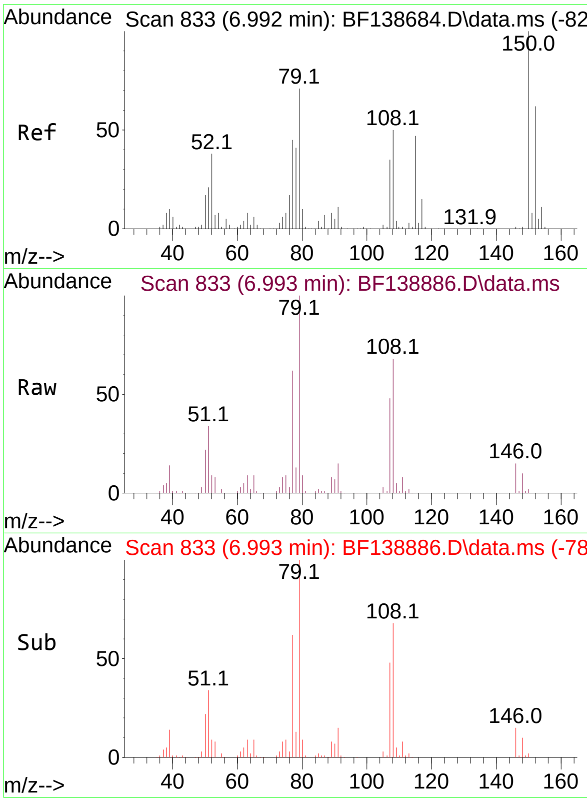


Sample Results: **BF138886.D**

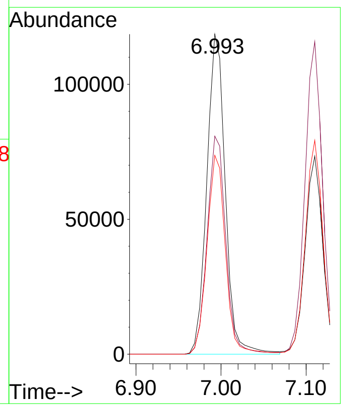
Instrument :
BNA_F
ClientSampleId :
PB162489BS

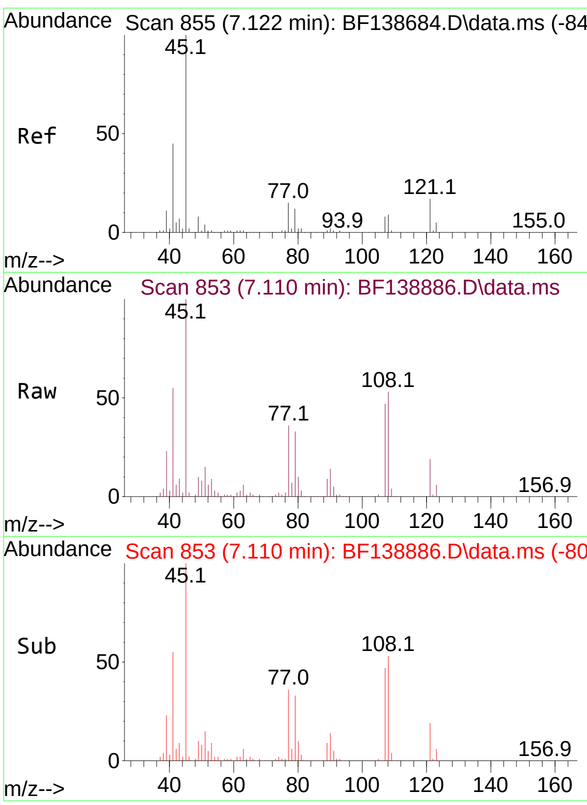
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

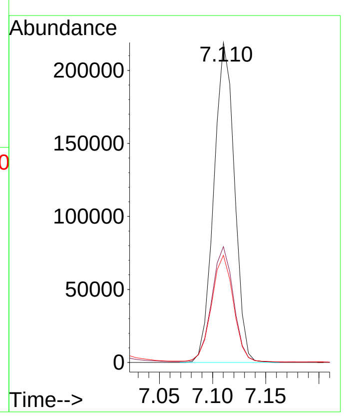


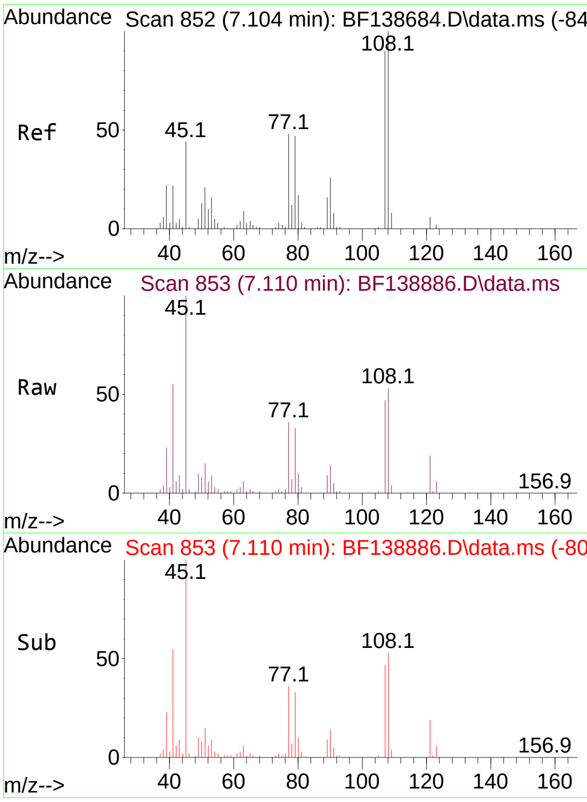

```
#15
Benzyl Alcohol
Concen:    51.022 ng
RT:    6.993 min   Scan# 8
Delta R.T.   0.000 min
Lab File:    BF138886.D
Acq: 09 Aug 2024   13:25

Tgt Ion: 79 Resp:   17891
Ion   Ratio   Lower   Upper
 79   100
108    68.2    56.6    85.0
 77    62.2    50.3    75.5
```






```
#16
2,2'-oxybis(1-Chloropropane)
Concen:    43.506 ng
RT:    7.110 min   Scan# 853
Delta R.T.   -0.012 min
Lab File:    BF138886.D
Acq: 09 Aug 2024   13:25

Tgt Ion: 45 Resp:   295135
Ion   Ratio   Lower   Upper
 45   100
 77    36.2     0.0    34.9#
 79    33.5     0.0    32.2#
```





#17
2-Methylphenol
Concen: 47.404 ng
RT: 7.110 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

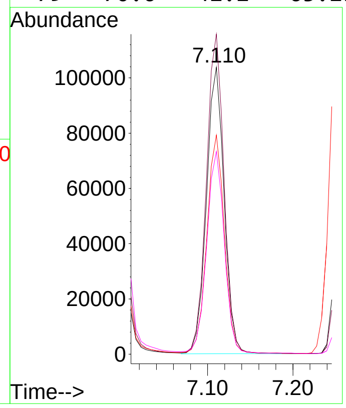
Instrument :
BNA_F
ClientSampleId :
PB162489BS

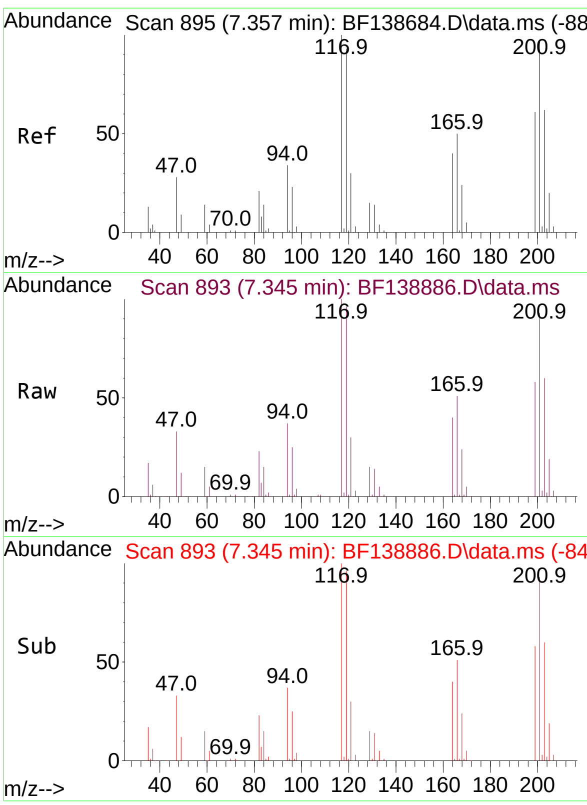
Tgt Ion:107 Resp: 14923

Ion	Ratio	Lower	Upper
107	100		
108	111.5	89.2	133.8
77	76.3	43.0	64.4#
79	70.6	42.2	63.2#

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

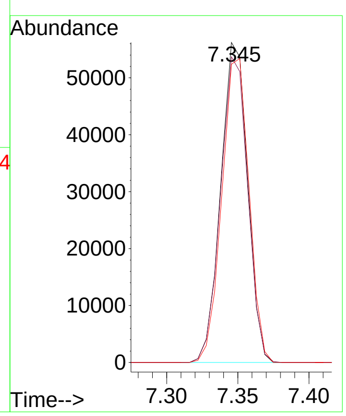




#18
Hexachloroethane
Concen: 45.540 ng
RT: 7.345 min Scan# 893
Delta R.T. -0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:117 Resp: 73829

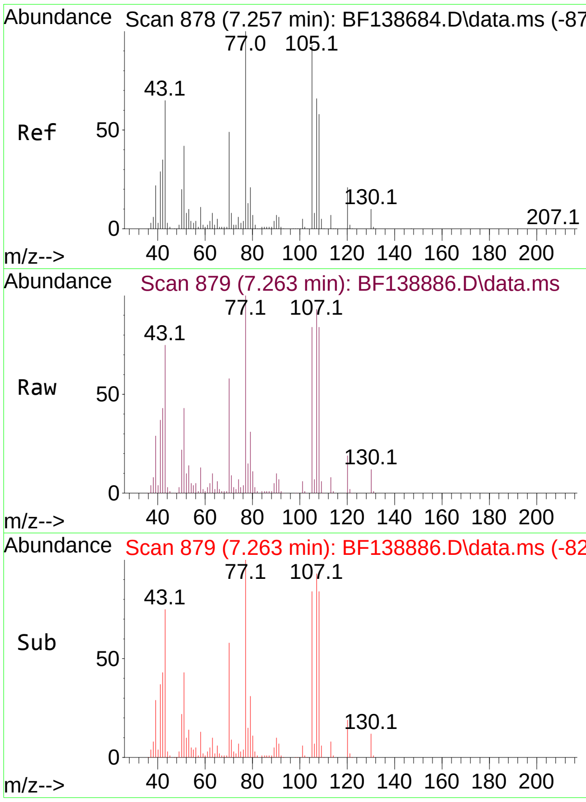
Ion	Ratio	Lower	Upper
117	100		
119	95.5	74.6	111.8
201	93.2	77.2	115.8



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED

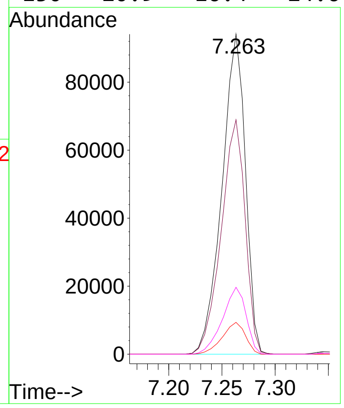
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

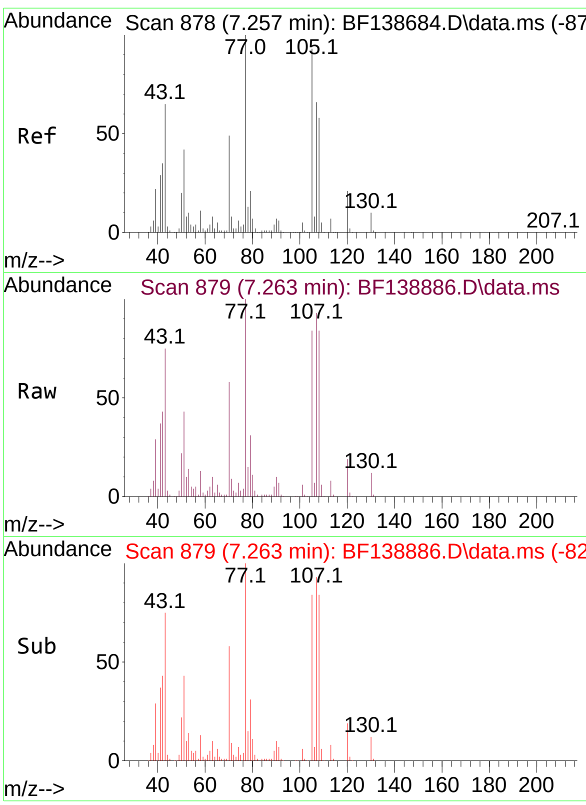


#19
n-Nitroso-di-n-propylamine
Concen: 49.128 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 70 Resp: 14436

Ion	Ratio	Lower	Upper
70	100		
42	73.3	57.4	86.0
101	10.0	7.5	11.3
130	20.9	16.4	24.6

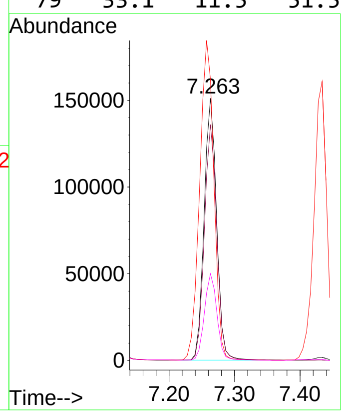




#20
3+4-Methylphenols
Concen: 49.813 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:107 Resp: 201207

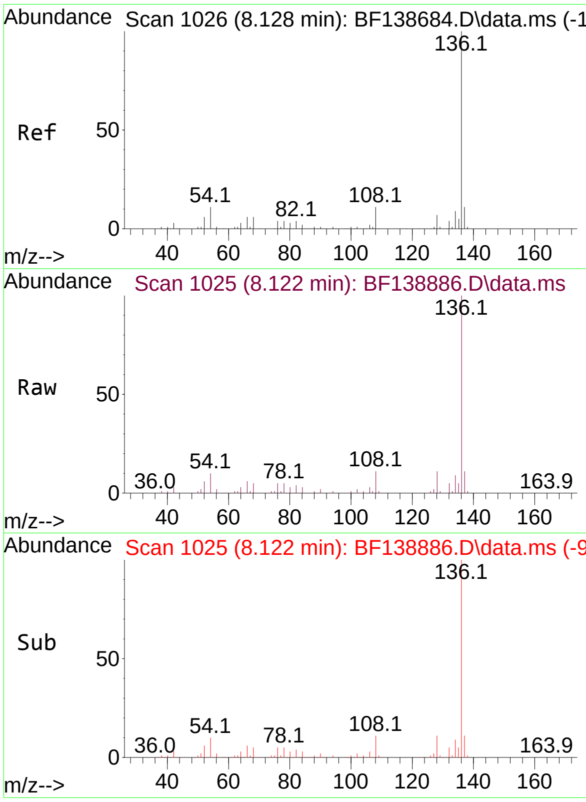
Ion	Ratio	Lower	Upper
107	100		
108	89.9	68.2	108.2
77	107.2	132.1	172.1#
79	33.1	11.5	51.5



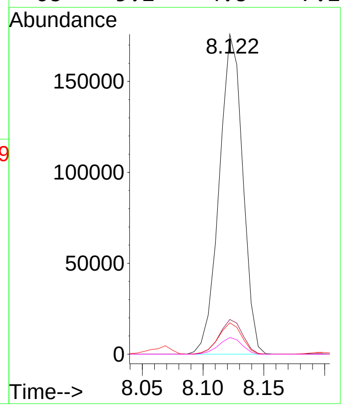
Instrument :
BNA_F
ClientSampleId :
PB162489BS

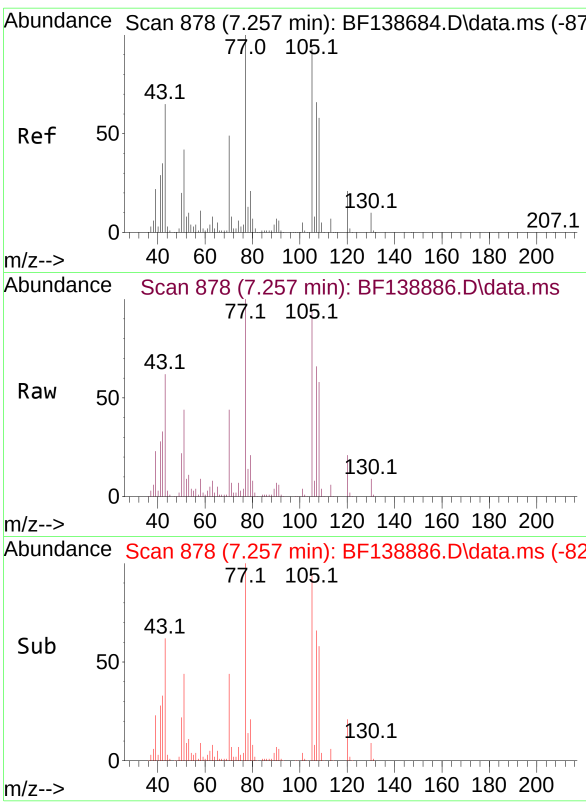
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

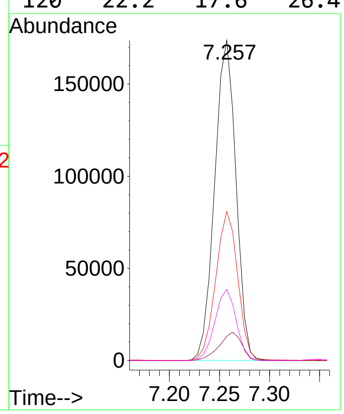


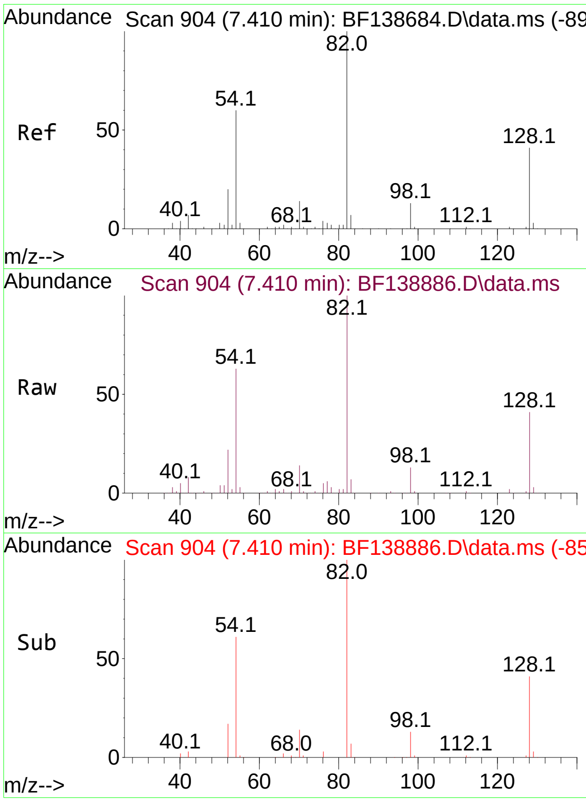

```
#21
Naphthalene-d8
Concen:   20.000 ng
RT:   8.122 min  Scan# 1
Delta R.T.  -0.006 min
Lab File:   BF138886.D
Acq: 09 Aug 2024  13:25

Tgt Ion:136 Resp:  23730
Ion  Ratio  Lower  Upper
136  100
137   10.9    8.9   13.3
 54    9.8    8.6   12.8
 68    5.2    4.8    7.2
```






```
#22
Acetophenone
Concen:   44.193 ng
RT:   7.257 min  Scan# 878
Delta R.T.  0.000 min
Lab File:   BF138886.D
Acq: 09 Aug 2024  13:25

Tgt Ion:105 Resp:  256780
Ion  Ratio  Lower  Upper
105  100
 71    7.6    7.2   10.8
 51   46.5   35.9   53.9
120   22.2   17.6   26.4
```





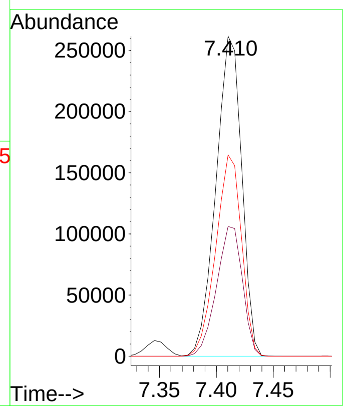
#23
Nitrobenzene-d5
Concen: 85.050 ng
RT: 7.410 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

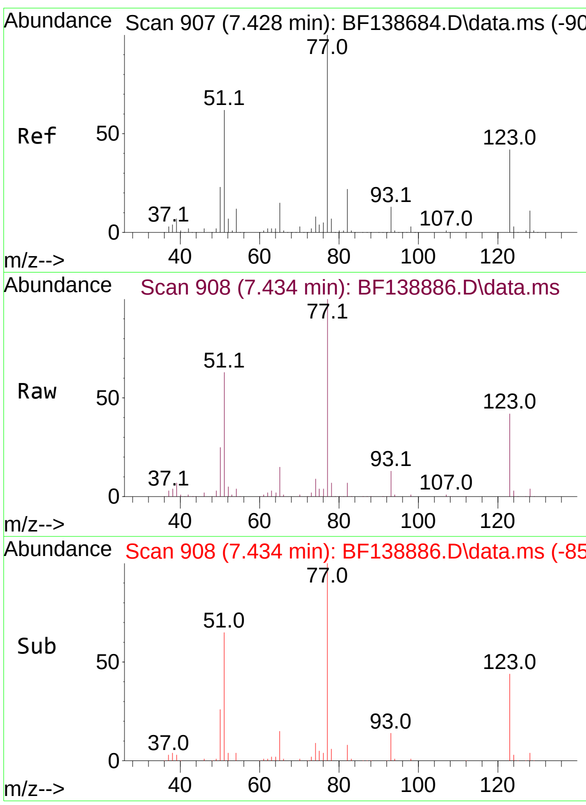
Tgt Ion: 82 Resp: 41281

Ion	Ratio	Lower	Upper
82	100		
128	40.6	32.8	49.2
54	62.9	48.3	72.5

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

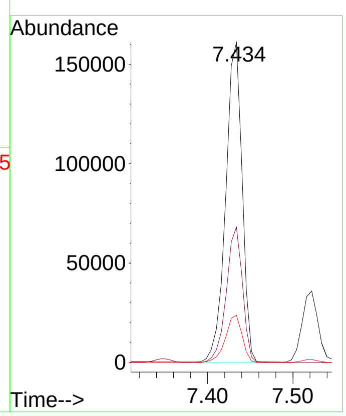




#24
Nitrobenzene
Concen: 43.596 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 77 Resp: 215325

Ion	Ratio	Lower	Upper
77	100		
123	42.3	33.3	49.9
65	14.8	11.9	17.9

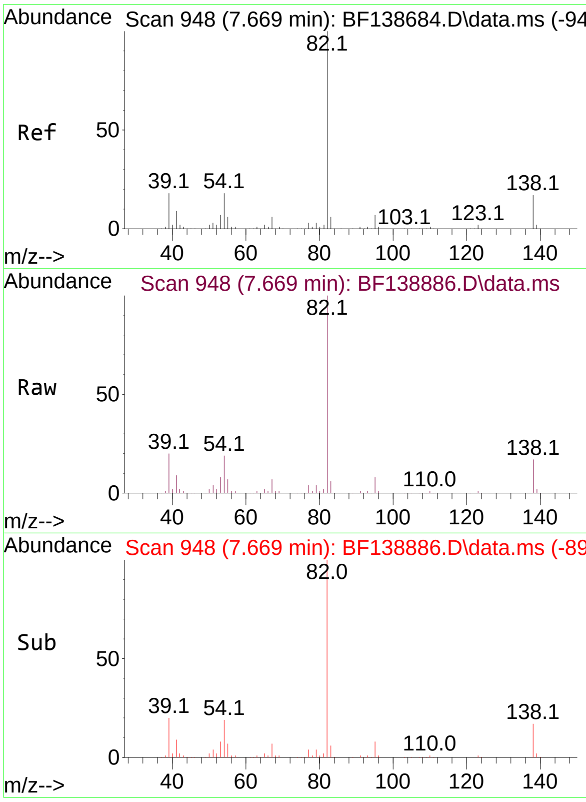


Sample Results: **BF138886.D**

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

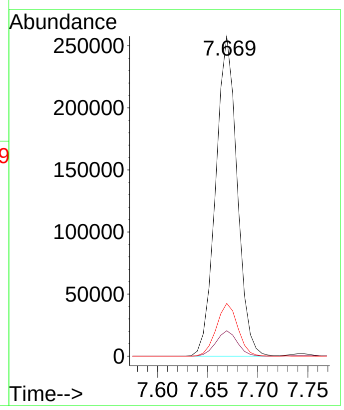
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

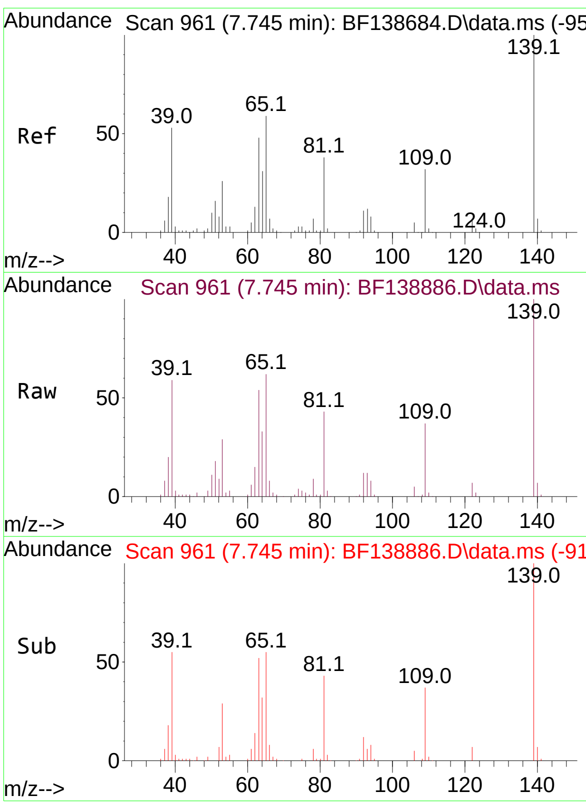


#25
Isophorone
Concen: 46.276 ng
RT: 7.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 82 Resp: 38353

Ion	Ratio	Lower	Upper
82	100		
95	7.9	5.7	8.5
138	16.5	13.7	20.5

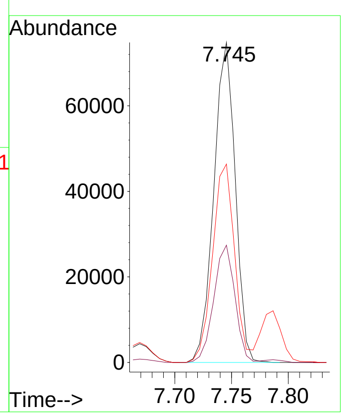


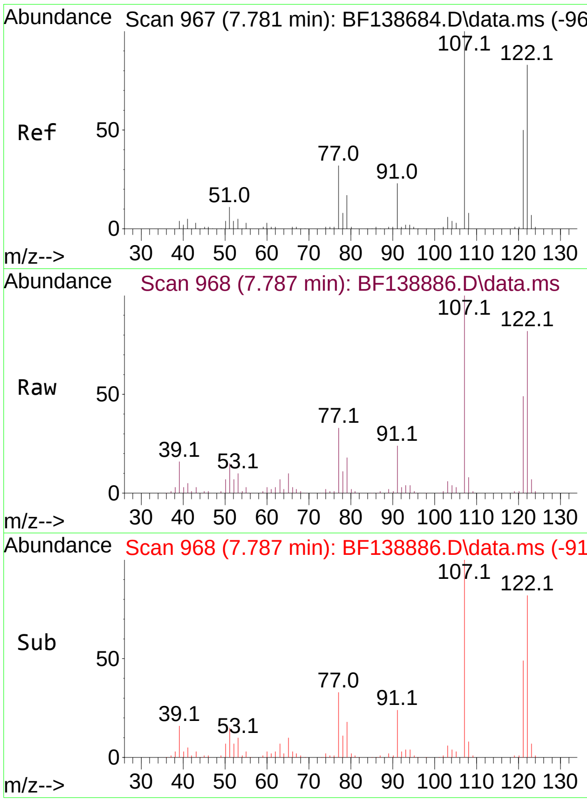


#26
2-Nitrophenol
Concen: 46.324 ng
RT: 7.745 min Scan# 961
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:139 Resp: 98435

Ion	Ratio	Lower	Upper
139	100		
109	36.6	25.9	38.9
65	62.0	47.0	70.6





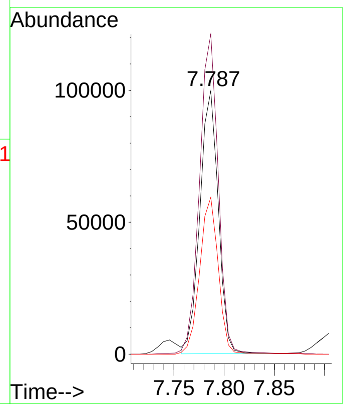
#27
2,4-Dimethylphenol
Concen: 50.076 ng
RT: 7.787 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

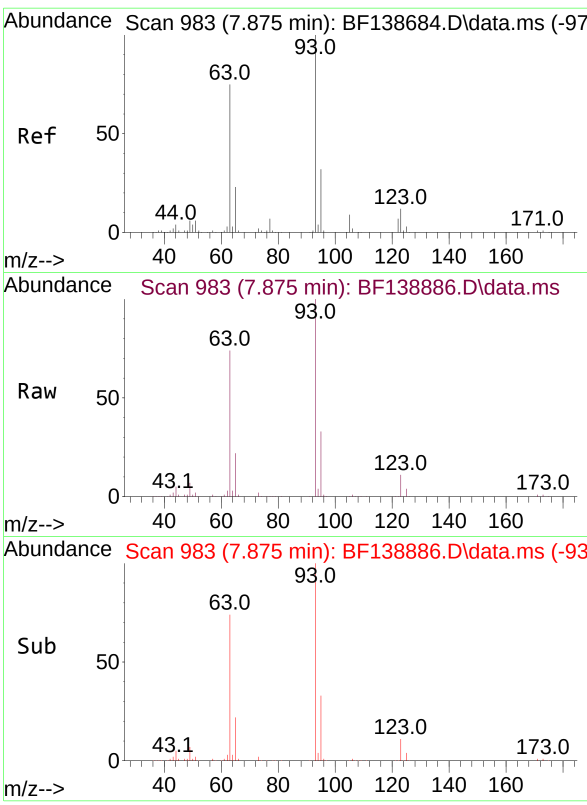
Tgt Ion:122 Resp: 12731

Ion	Ratio	Lower	Upper
122	100		
107	121.6	95.0	142.6
121	59.6	47.3	70.9

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

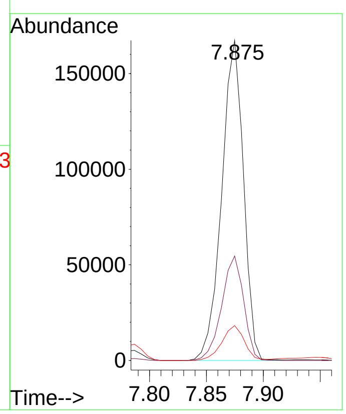




#28
bis(2-Chloroethoxy)methane
Concen: 44.236 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

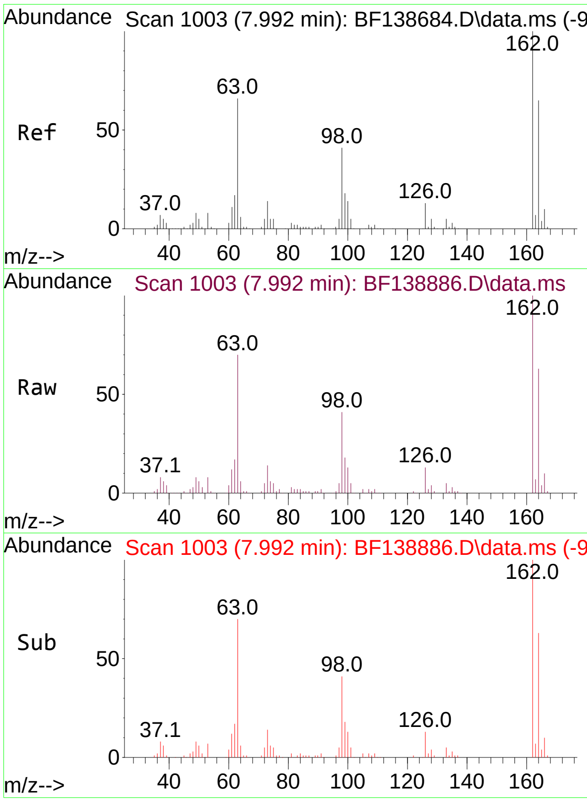
Tgt Ion: 93 Resp: 223265

Ion	Ratio	Lower	Upper
93	100		
95	32.6	25.8	38.8
123	10.9	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
PB162489BS

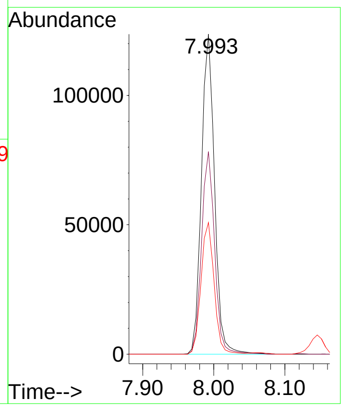
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

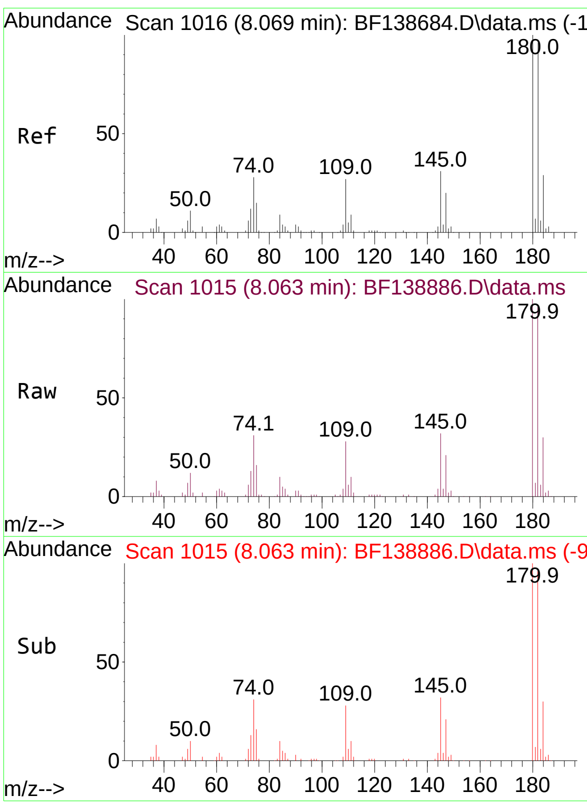


#29
2,4-Dichlorophenol
Concen: 48.810 ng
RT: 7.992 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:162 Resp: 15946

Ion	Ratio	Lower	Upper
162	100		
164	63.3	44.7	84.7
98	41.2	20.8	60.8

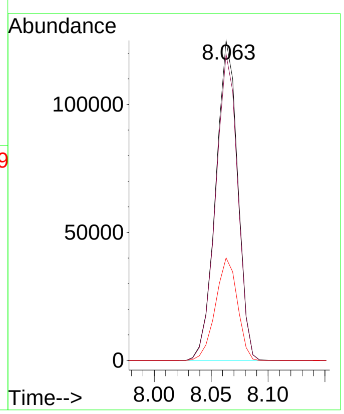


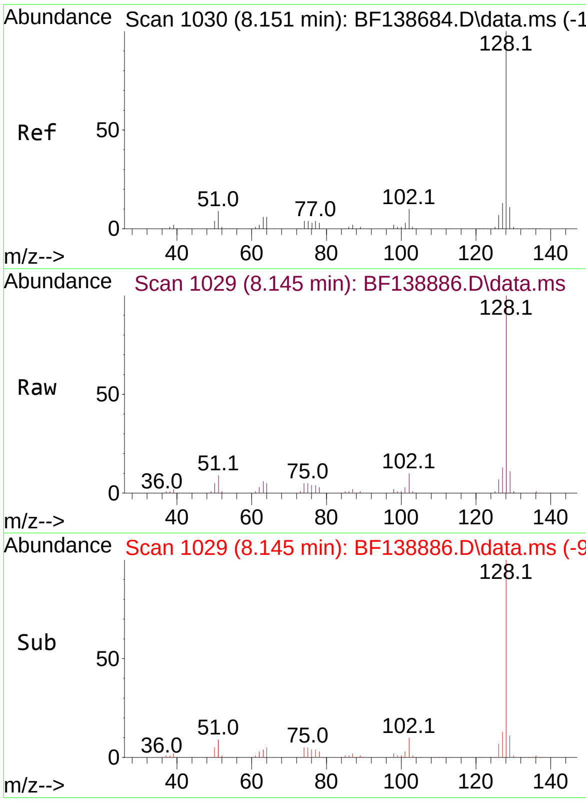


#30
1,2,4-Trichlorobenzene
Concen: 44.765 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:180 Resp: 168771

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.9	115.3
145	32.1	25.0	37.4

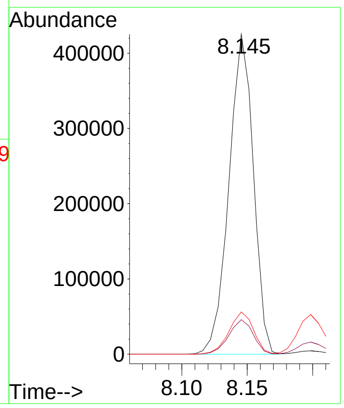




#31
Naphthalene
Concen: 44.292 ng
RT: 8.145 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:128 Resp: 55325

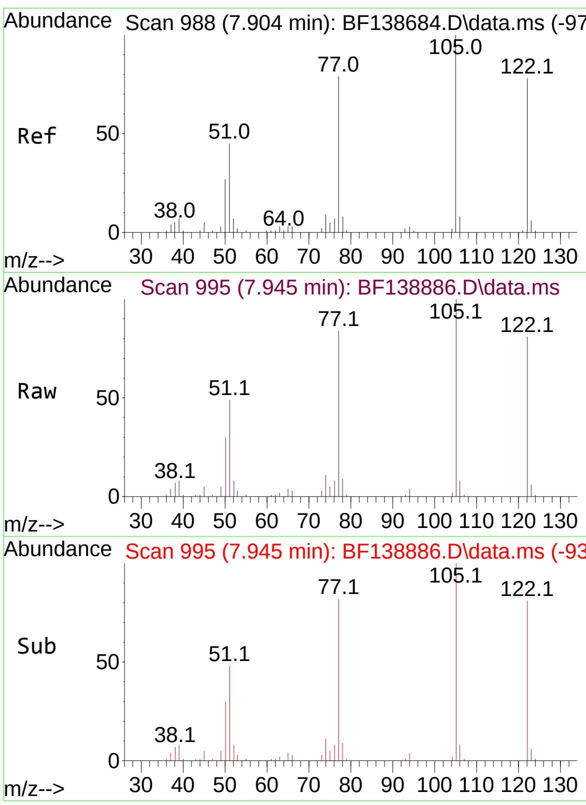
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.7	13.1
127	13.2	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

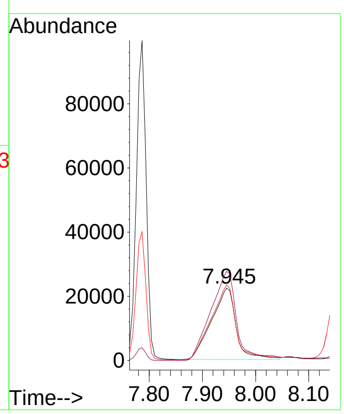
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

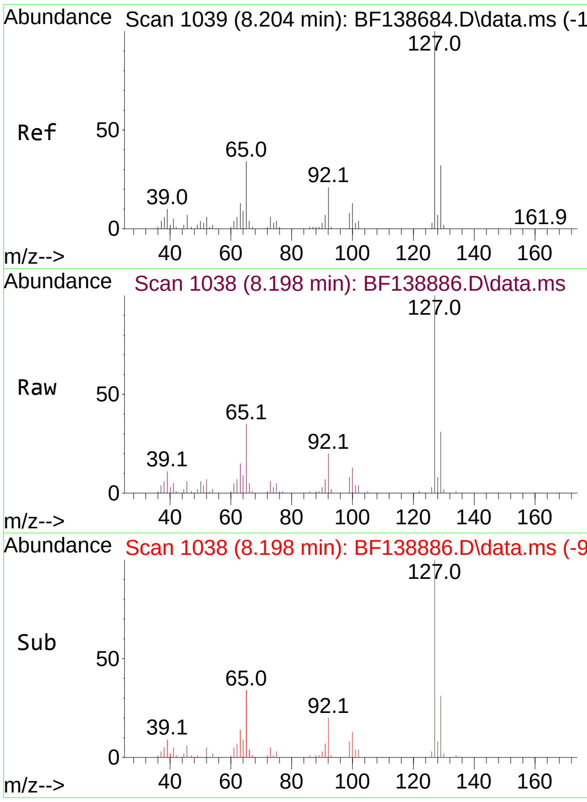


#32
Benzoic acid
Concen: 36.056 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.041 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:122 Resp: 72059

Ion	Ratio	Lower	Upper
122	100		
105	123.4	106.7	146.7
77	104.2	81.1	121.1

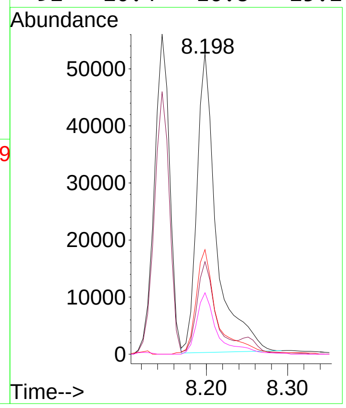




#33
4-Chloroaniline
Concen: 21.011 ng
RT: 8.198 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:127 Resp: 88100

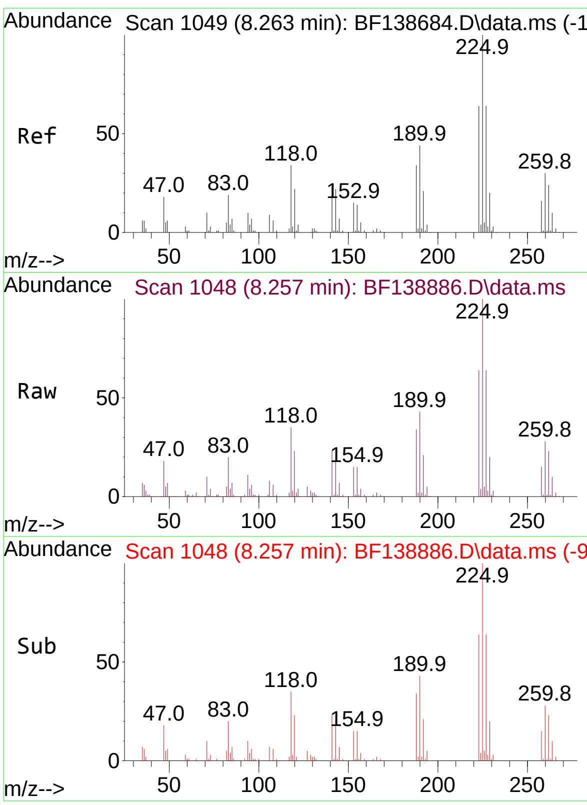
Ion	Ratio	Lower	Upper
127	100		
129	30.7	25.9	38.9
65	34.7	27.6	41.4
92	20.4	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

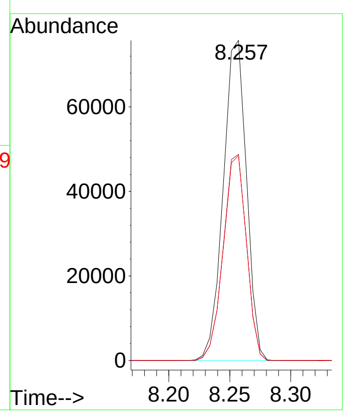
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

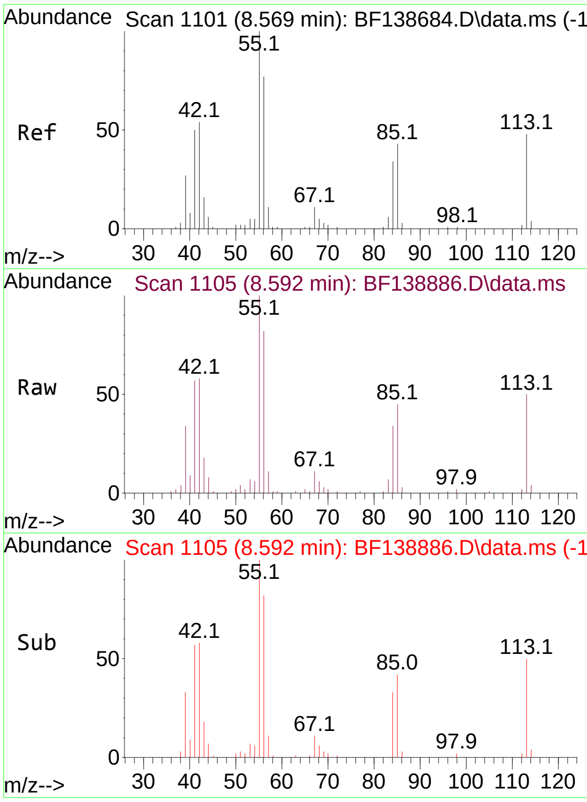


#34
Hexachlorobutadiene
Concen: 44.120 ng
RT: 8.257 min Scan# 1048
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:225 Resp: 100753

Ion	Ratio	Lower	Upper
225	100		
223	64.4	51.2	76.8
227	64.0	51.1	76.7





#35
Caprolactam
Concen: 41.525 ng m
RT: 8.592 min Scan# 1
Delta R.T. 0.024 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

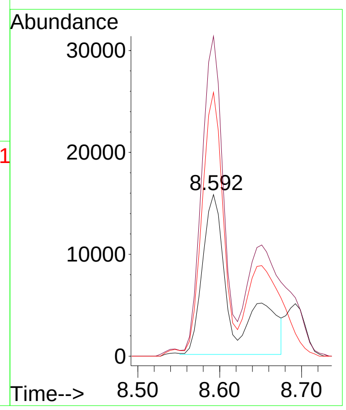
Instrument :
BNA_F
ClientSampleId :
PB162489BS

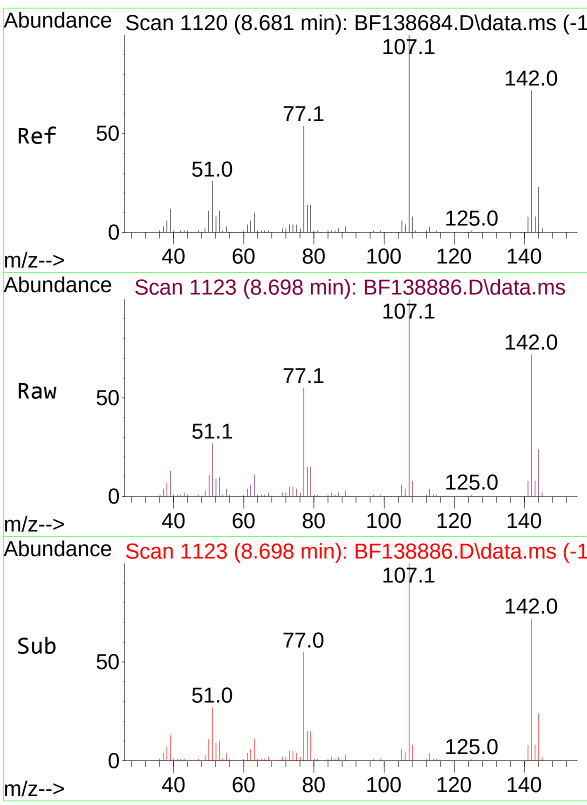
Tgt Ion:113 Resp: 4048

Ion	Ratio	Lower	Upper
113	100		
55	198.0	186.7	226.7
56	163.3	138.9	178.9

Manual Integrations APPROVED

Reviewed By :Yogesh Patel   08/10/2024
Supervised By :mohammad ahmed   08/12/2024

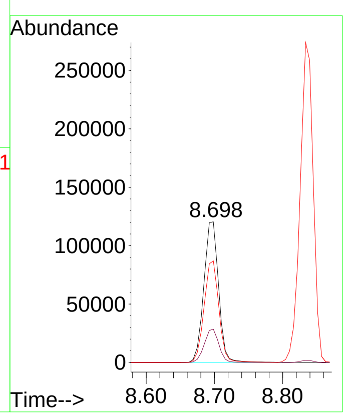


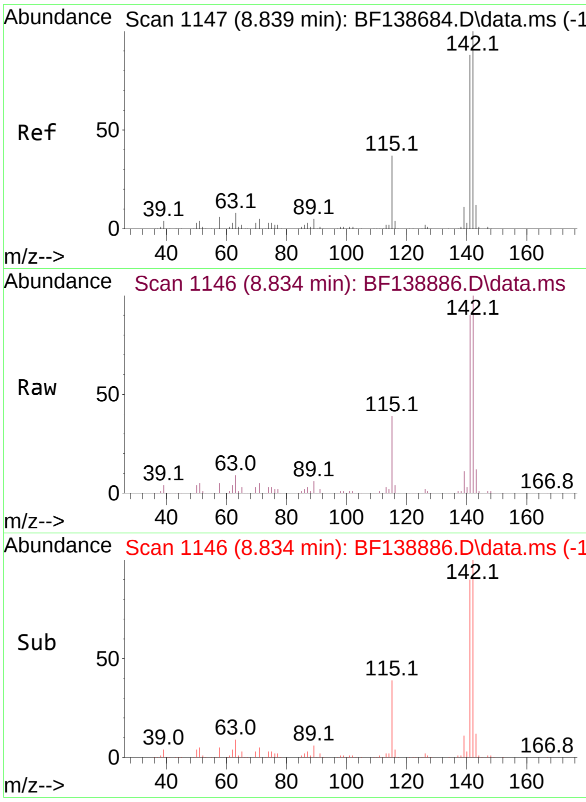


#36
4-Chloro-3-methylphenol
Concen: 48.523 ng
RT: 8.698 min Scan# 1123
Delta R.T. 0.018 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:107 Resp: 181168

Ion	Ratio	Lower	Upper
107	100		
144	23.7	18.2	27.2
142	72.2	57.4	86.2





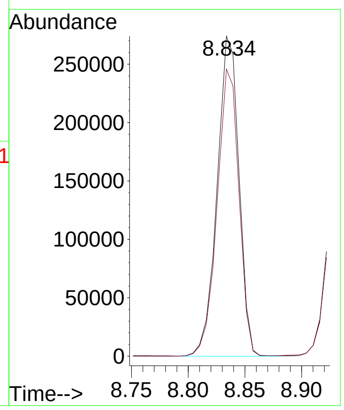
#37
2-Methylnaphthalene
Concen: 46.522 ng
RT: 8.834 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

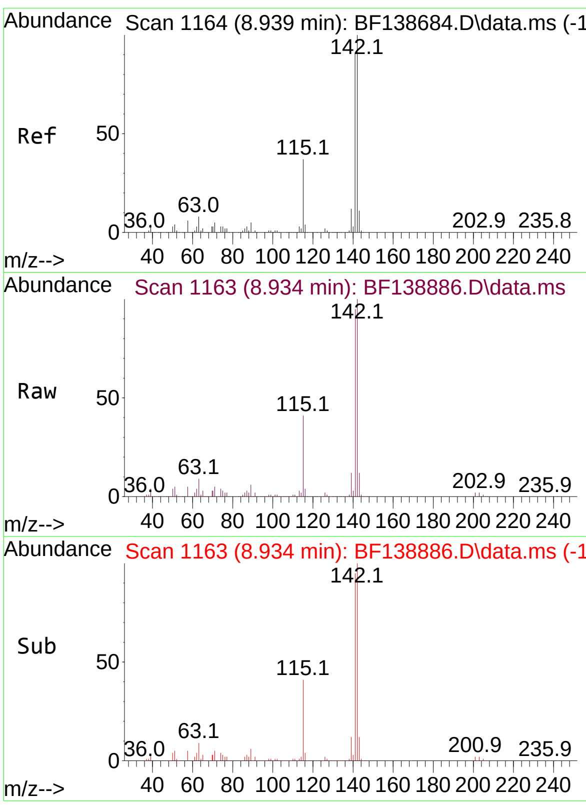
Tgt Ion:142 Resp: 367005

Ion	Ratio	Lower	Upper
142	100		
141	89.7	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

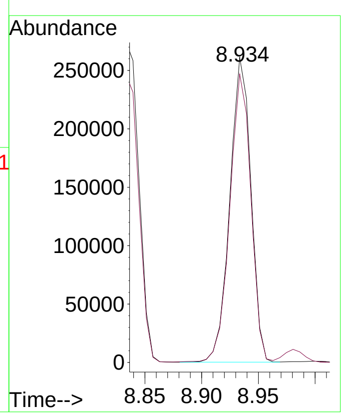


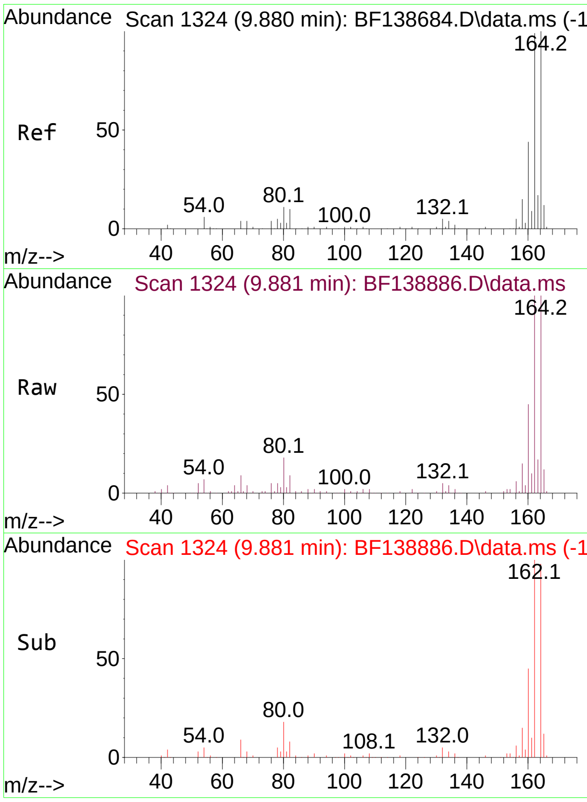


#38
1-Methylnaphthalene
Concen: 43.596 ng
RT: 8.934 min Scan# 1163
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:142 Resp: 337008

Ion	Ratio	Lower	Upper
142	100		
141	94.5	73.1	109.7

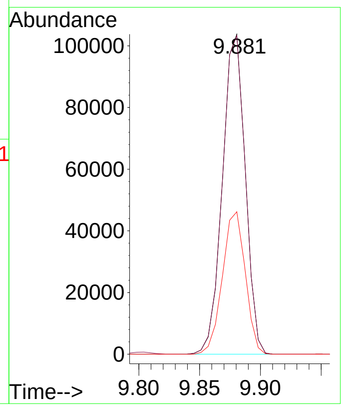




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:164 Resp: 13570

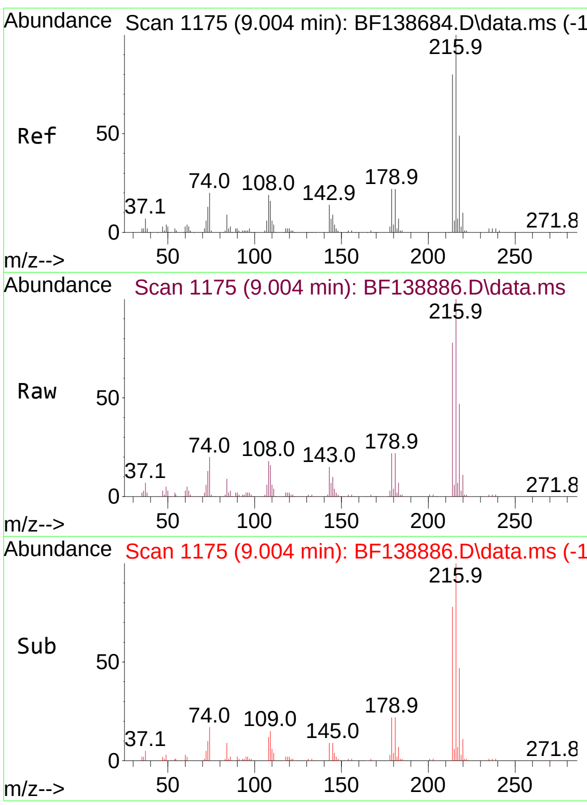
Ion	Ratio	Lower	Upper
164	100		
162	99.6	79.4	119.0
160	44.5	35.1	52.7



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED

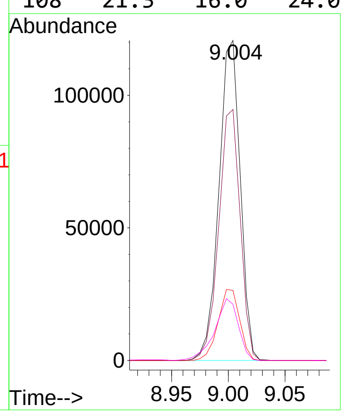
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

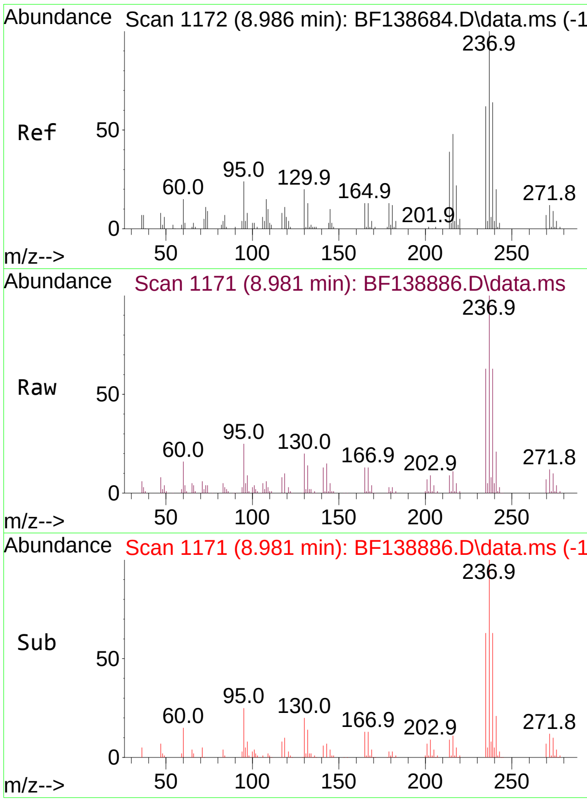


#40
1,2,4,5-Tetrachlorobenzene
Concen: 42.045 ng
RT: 9.004 min Scan# 1175
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:216 Resp: 158491

Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.9	95.9
179	22.5	17.8	26.6
108	21.3	16.0	24.0





#41
Hexachlorocyclopentadiene
Concen: 104.770 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.005 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

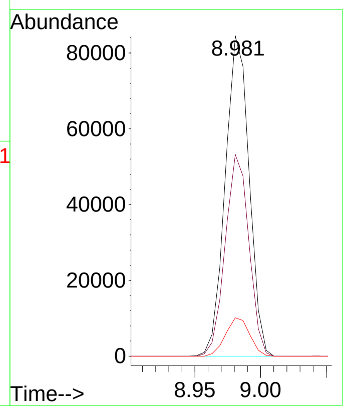
Instrument :
BNA_F
ClientSampleId :
PB162489BS

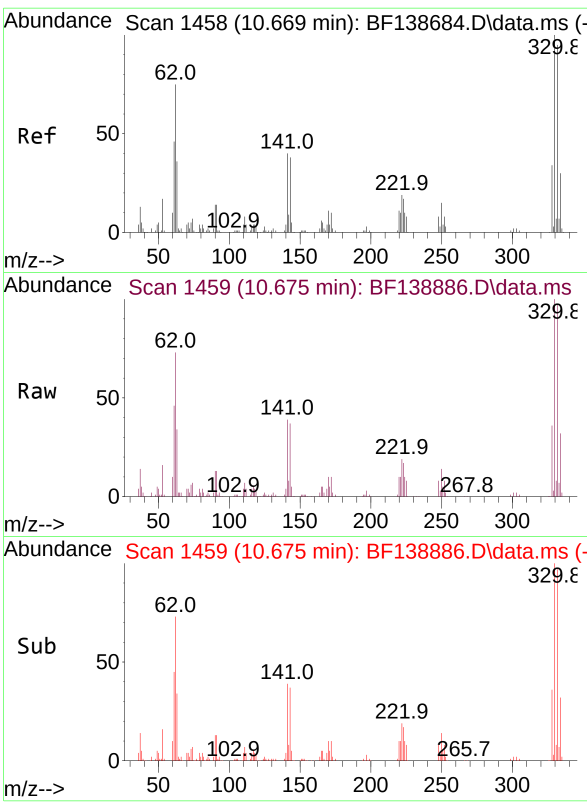
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

Tgt Ion:237 Resp: 106892

Ion	Ratio	Lower	Upper
237	100		
235	63.0	41.8	81.8
272	12.0	0.0	32.2

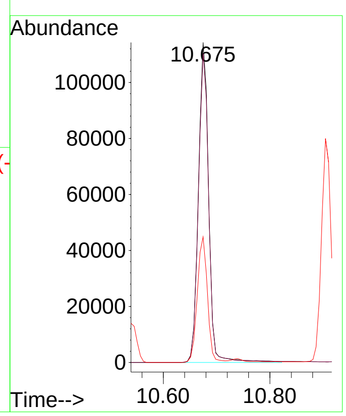




#42
2,4,6-Tribromophenol
Concen: 138.707 ng
RT: 10.675 min Scan# 1459
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:330 Resp: 154182

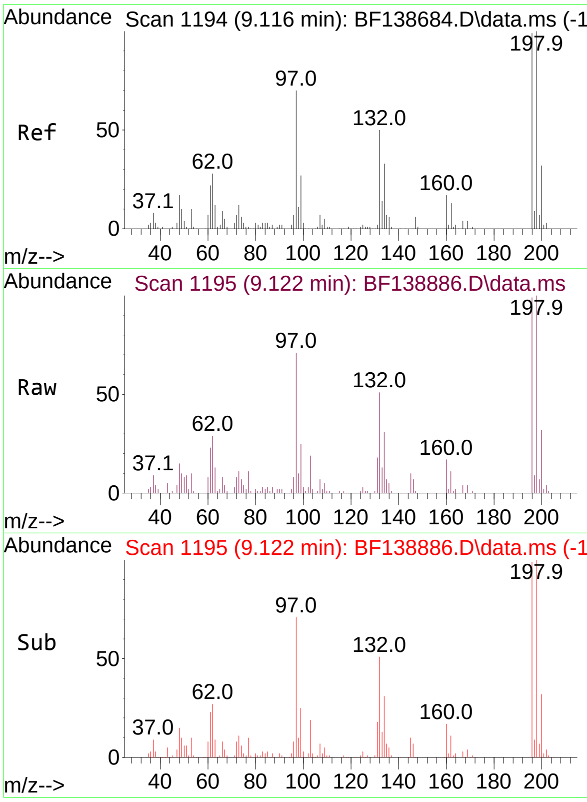
Ion	Ratio	Lower	Upper
330	100		
332	94.9	76.4	114.6
141	38.5	31.1	46.7



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

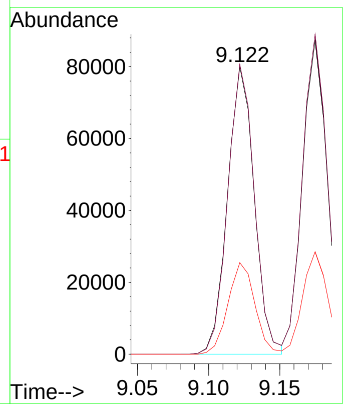
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

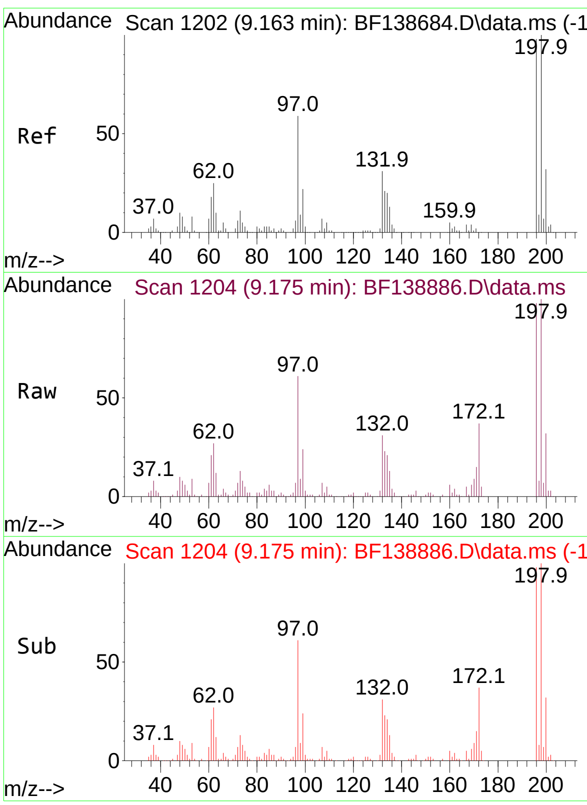


#43
2,4,6-Trichlorophenol
Concen: 45.594 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:196 Resp: 10479

Ion	Ratio	Lower	Upper
196	100		
198	100.9	80.5	120.7
200	31.9	25.9	38.9

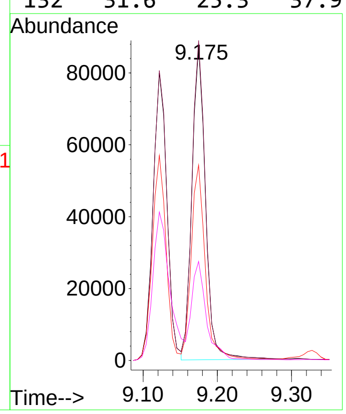




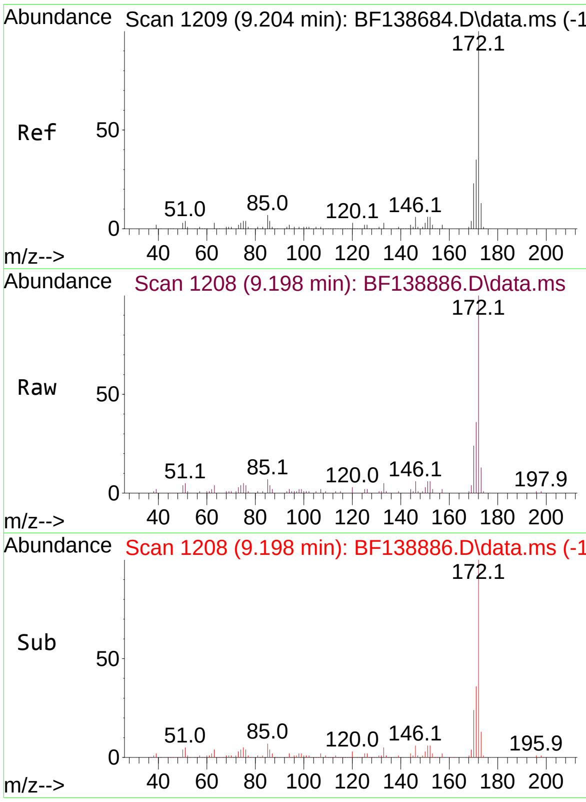
#44
2,4,5-Trichlorophenol
Concen: 44.209 ng
RT: 9.175 min Scan# 1204
Delta R.T. 0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:196 Resp: 111079

Ion	Ratio	Lower	Upper
196	100		
198	102.0	81.2	121.8
97	62.3	47.8	71.6
132	31.6	25.3	37.9



Sample Results: **BF138886.D**



#45
2-Fluorobiphenyl
Concen: 86.902 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

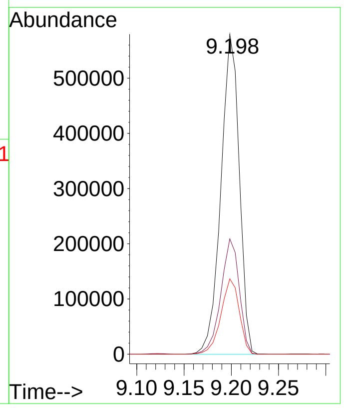
Tgt Ion:172 Resp: 78486

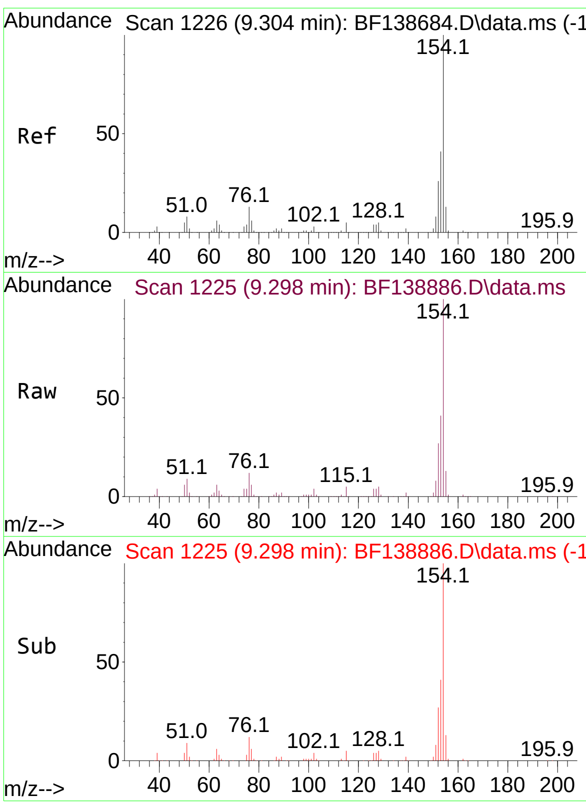
Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.3	42.5
170	23.5	18.8	28.2

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

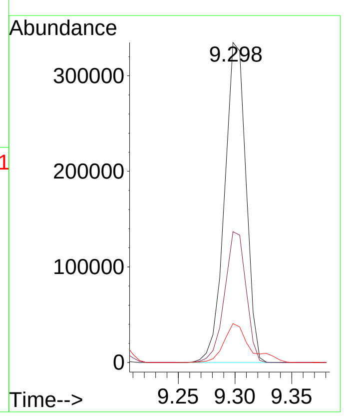


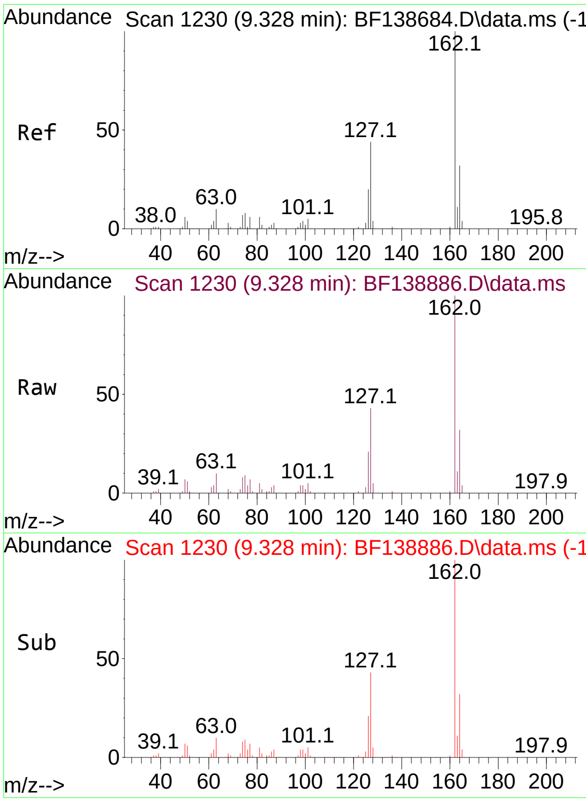


#46
1,1'-Biphenyl
Concen: 41.343 ng
RT: 9.298 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:154 Resp: 439384

Ion	Ratio	Lower	Upper
154	100		
153	40.9	20.8	60.8
76	12.1	0.0	32.8





#47
2-Chloronaphthalene
Concen: 44.064 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

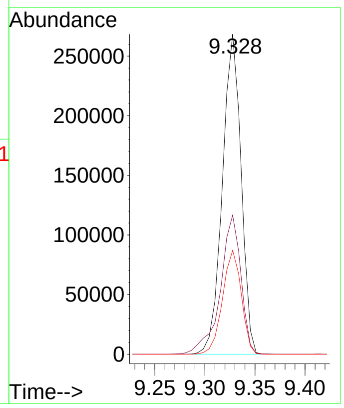
Tgt Ion:162 Resp: 34829

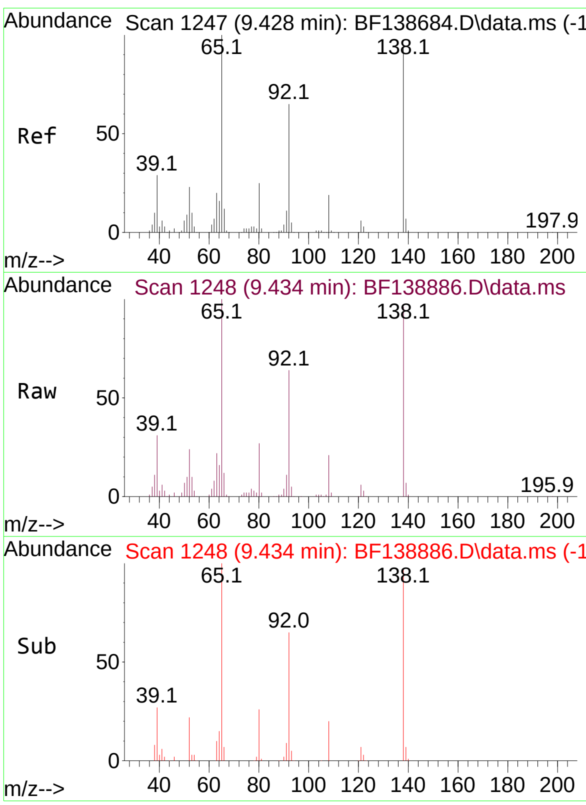
Ion	Ratio	Lower	Upper
162	100		
127	43.5	35.4	53.2
164	32.5	25.6	38.4

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

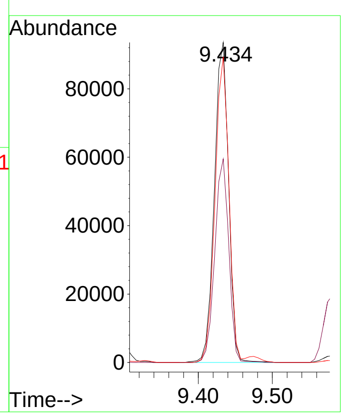




#48
2-Nitroaniline
Concen: 46.616 ng
RT: 9.434 min Scan# 1248
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 65 Resp: 124915

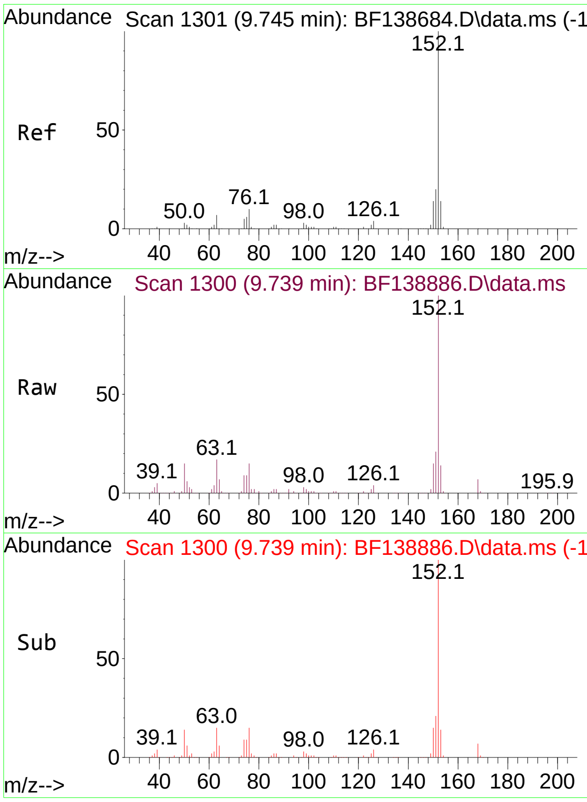
Ion	Ratio	Lower	Upper
65	100		
92	63.6	52.0	78.0
138	95.5	76.2	114.4



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED

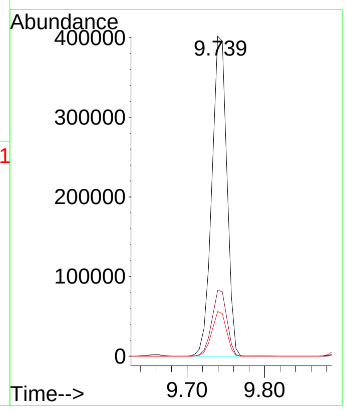
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

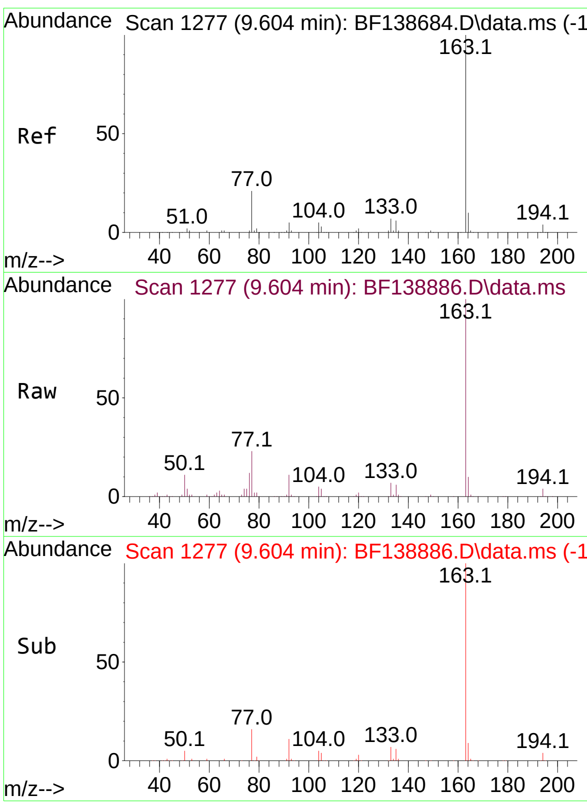


#49
Acenaphthylene
Concen: 48.356 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:152 Resp: 54209

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.0	24.0
153	13.9	11.0	16.4

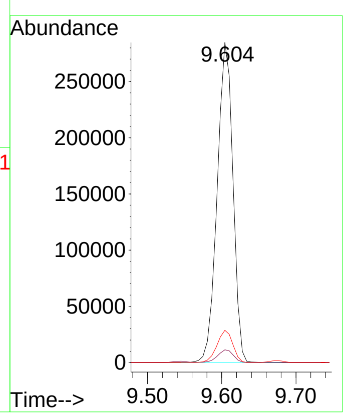




#50
Dimethylphthalate
Concen: 48.463 ng
RT: 9.604 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:163 Resp: 420510

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.0	7.8	11.8

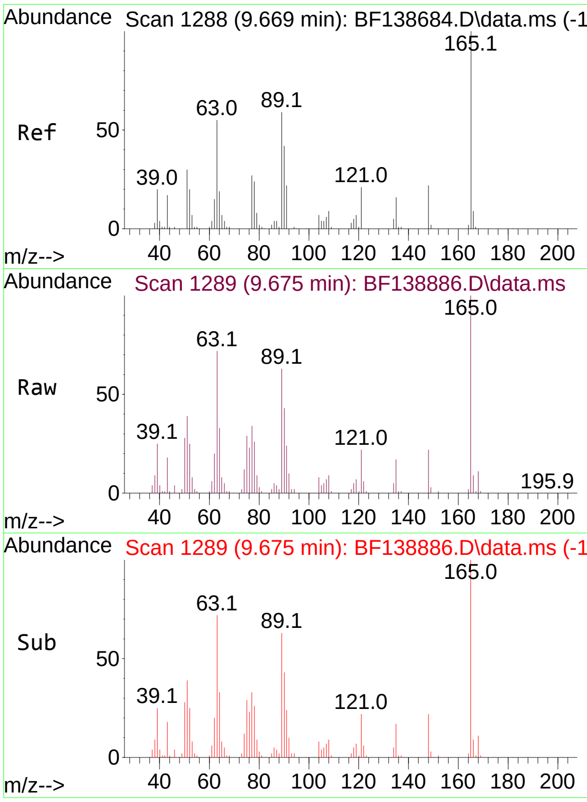


Sample Results: **BF138886.D**

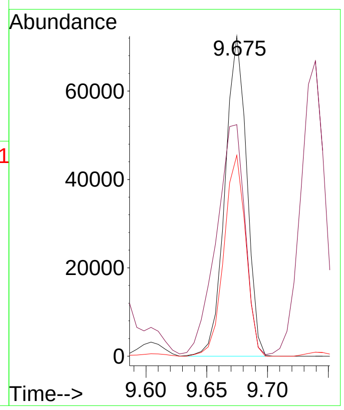
Instrument :
BNA_F
ClientSampleId :
PB162489BS

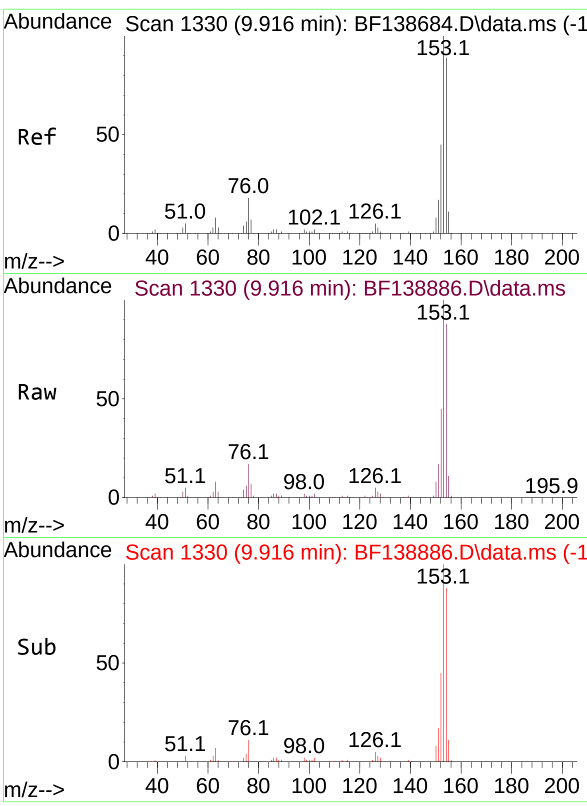
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

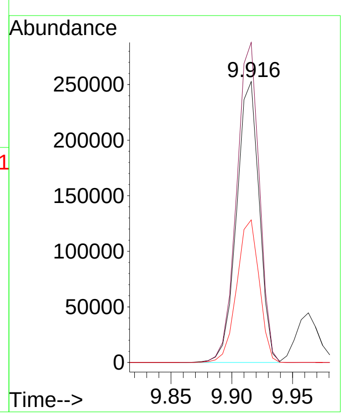


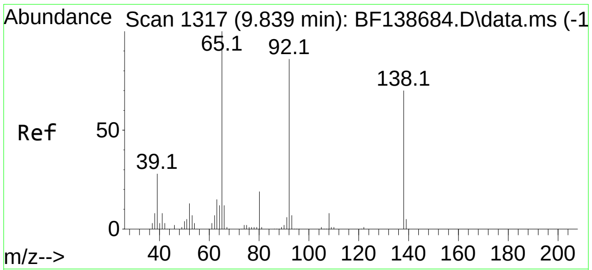

```
#51
2,6-Dinitrotoluene
Concen:   45.941 ng
RT:   9.675 min   Scan# 1
Delta R.T.   0.006 min
Lab File:   BF138886.D
Acq: 09 Aug 2024   13:25

Tgt Ion:165 Resp:   8996
Ion   Ratio   Lower   Upper
165   100
 63    72.3    52.0    78.0
 89    62.8    47.0    70.6
```

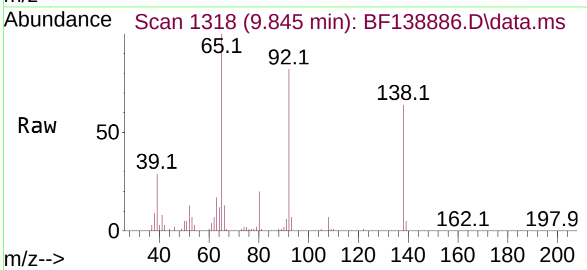


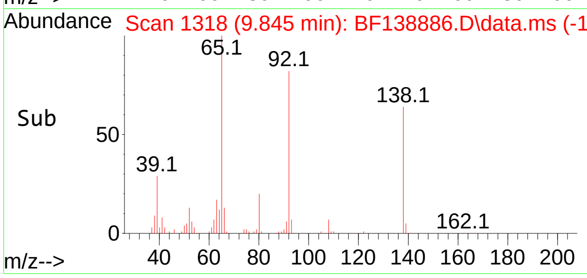



```
#52
Acenaphthene
Concen:   43.472 ng
RT:   9.916 min   Scan# 1330
Delta R.T.   0.000 min
Lab File:   BF138886.D
Acq: 09 Aug 2024   13:25

Tgt Ion:154 Resp:   327605
Ion   Ratio   Lower   Upper
154   100
153   114.0    89.9   134.9
152    50.7    40.6    60.8
```





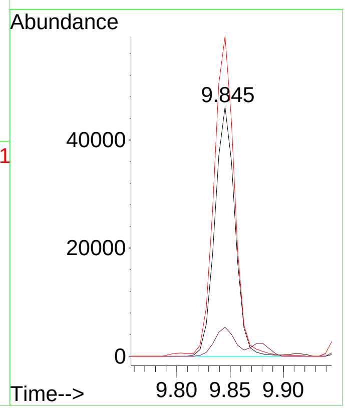




#53
3-Nitroaniline
Concen: 29.847 ng
RT: 9.845 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

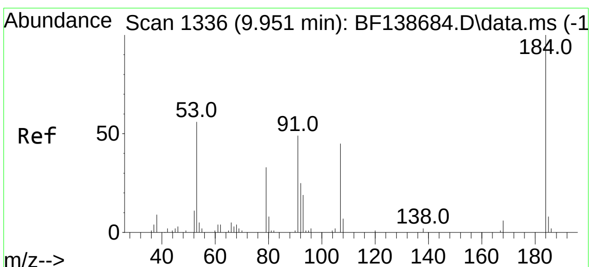
Tgt Ion:138 Resp: 6042

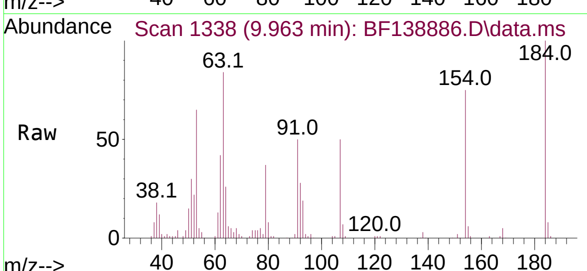
Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.1	13.7
92	128.4	98.7	148.1

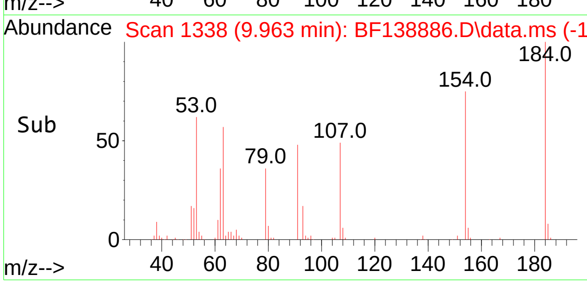


Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024



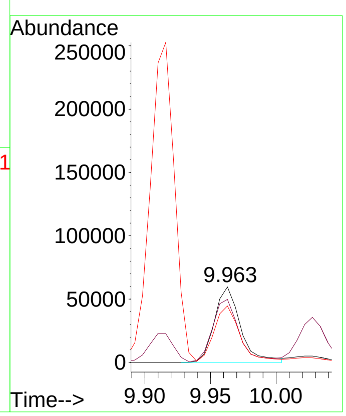




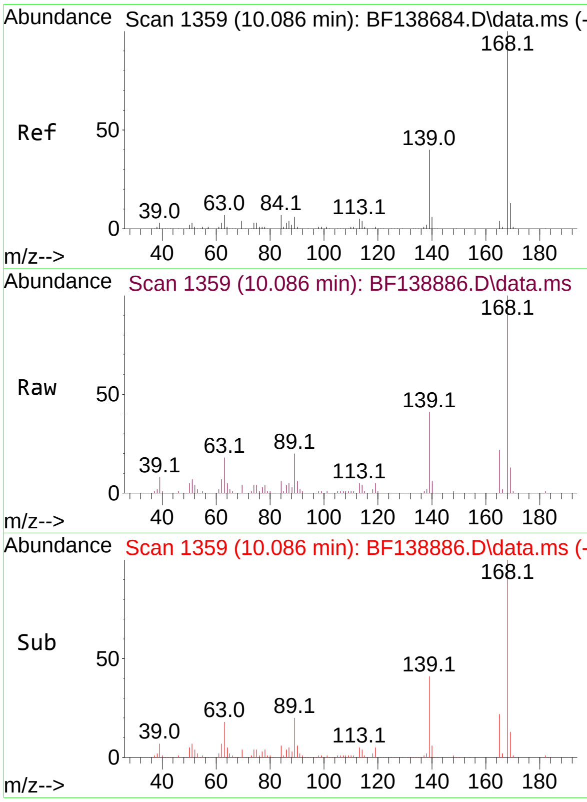
#54
2,4-Dinitrophenol
Concen: 91.337 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:184 Resp: 82333

Ion	Ratio	Lower	Upper
184	100		
63	83.6	57.5	86.3
154	74.8	51.7	77.5



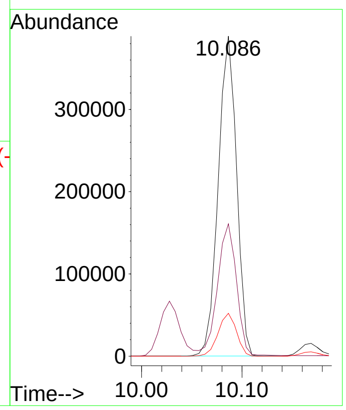
Sample Results: **BF138886.D**



#55
Dibenzofuran
Concen: 46.388 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:168 Resp: 49346

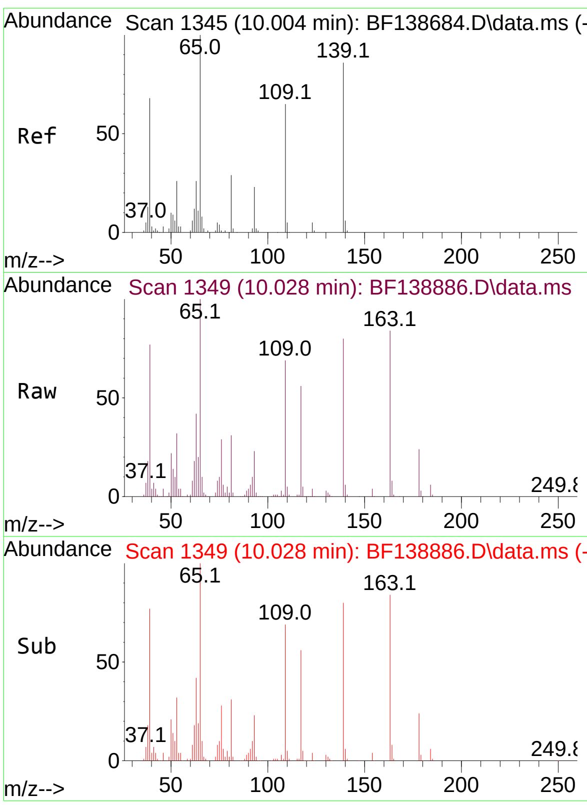
Ion	Ratio	Lower	Upper
168	100		
139	41.4	32.6	49.0
169	13.4	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED

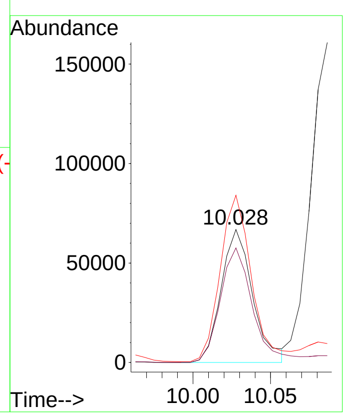
Reviewed By :Yogesh Patel   08/10/2024
Supervised By :mohammad ahmed   08/12/2024



#56
4-Nitrophenol
Concen: 77.691 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.024 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

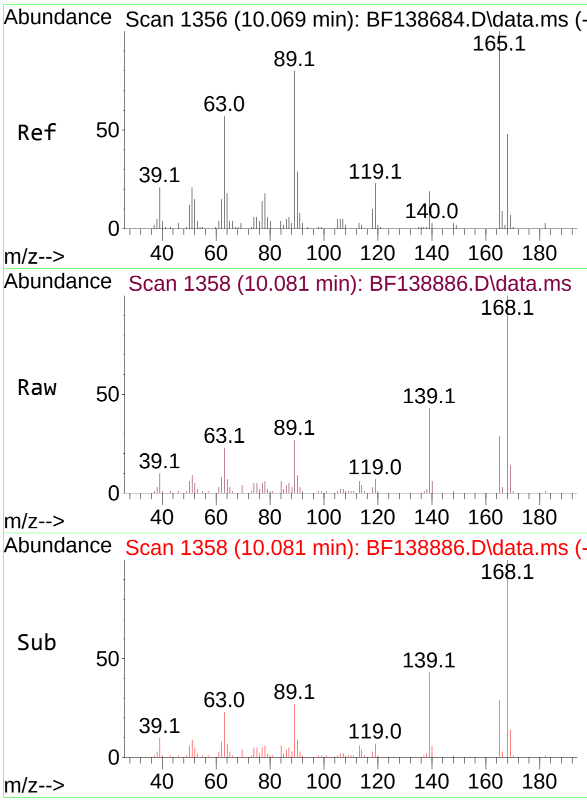
Tgt Ion:139 Resp: 94576

Ion	Ratio	Lower	Upper
139	100		
109	86.2	55.5	95.5
65	125.7	96.7	136.7



Instrument :
BNA_F
ClientSampleId :
PB162489BS

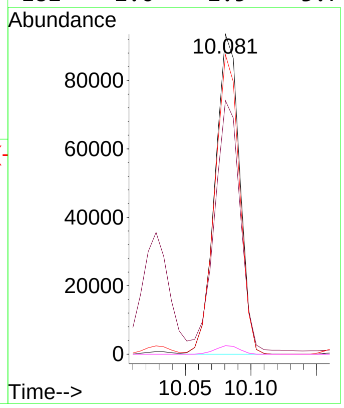
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

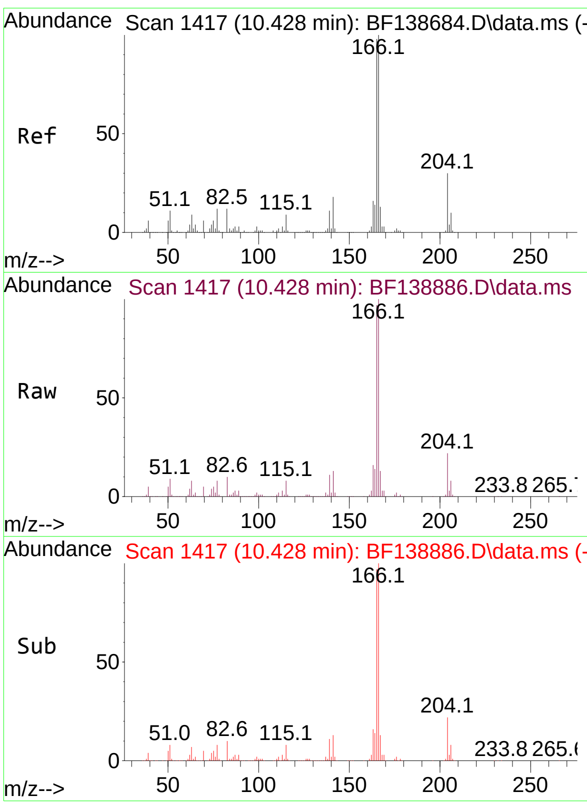


#57
2,4-Dinitrotoluene
Concen: 48.671 ng
RT: 10.081 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:165 Resp: 121590

Ion	Ratio	Lower	Upper
165	100		
63	79.3	46.3	69.5#
89	93.6	64.2	96.4
182	2.6	2.5	3.7

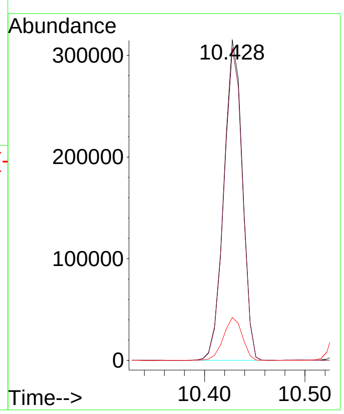




#58
Fluorene
Concen: 47.764 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:166 Resp: 404622

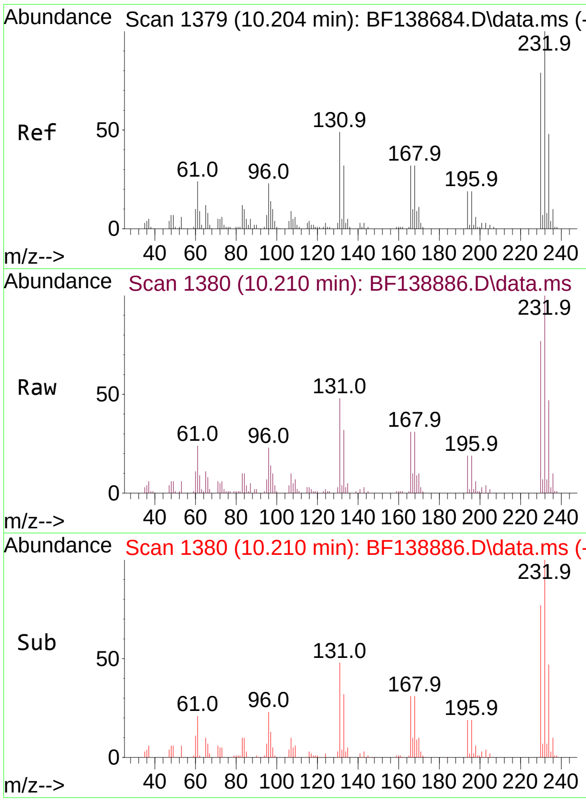
Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.4	117.6
167	13.5	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED

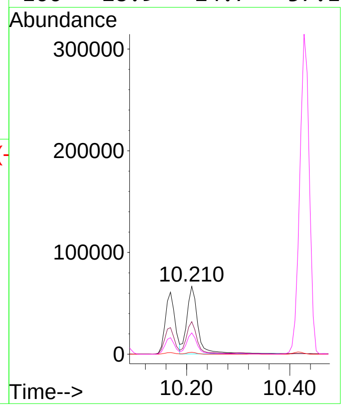
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

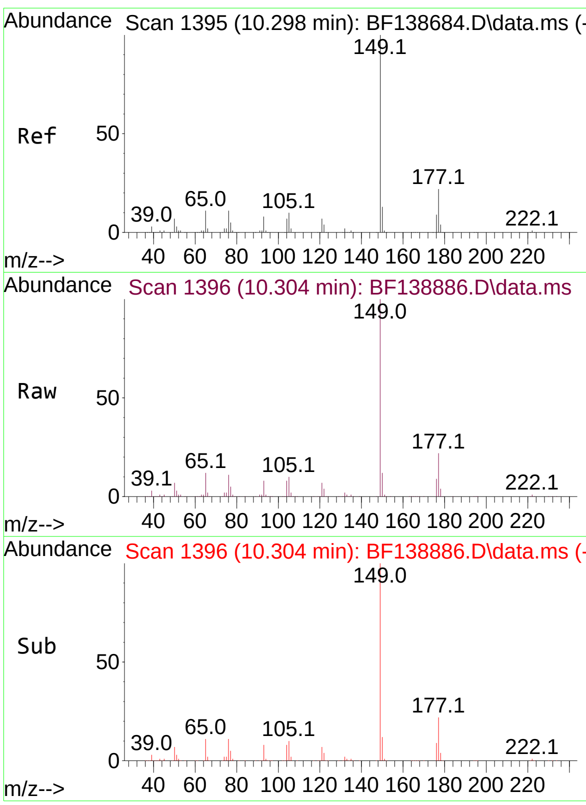


#59
2,3,4,6-Tetrachlorophenol
Concen: 51.065 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:232 Resp: 9809

Ion	Ratio	Lower	Upper
232	100		
131	46.8	37.0	55.4
130	2.5	2.0	3.0
166	28.9	24.7	37.1

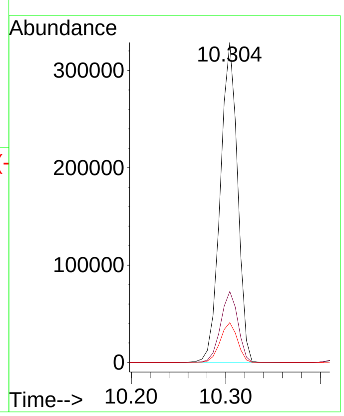


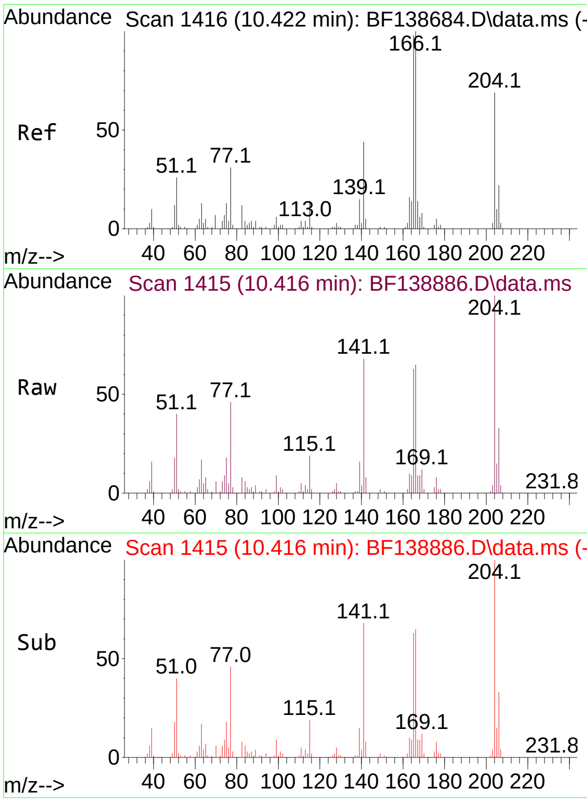


#60
Diethylphthalate
Concen: 50.872 ng
RT: 10.304 min Scan# 1396
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:149 Resp: 418528

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.8
150	12.5	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 47.424 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

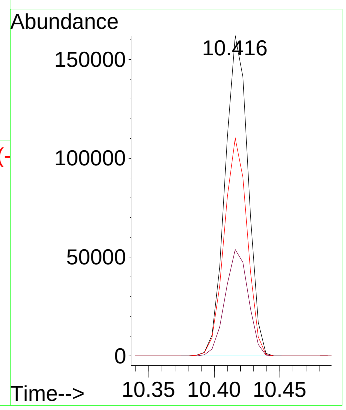
Instrument :
BNA_F
ClientSampleId :
PB162489BS

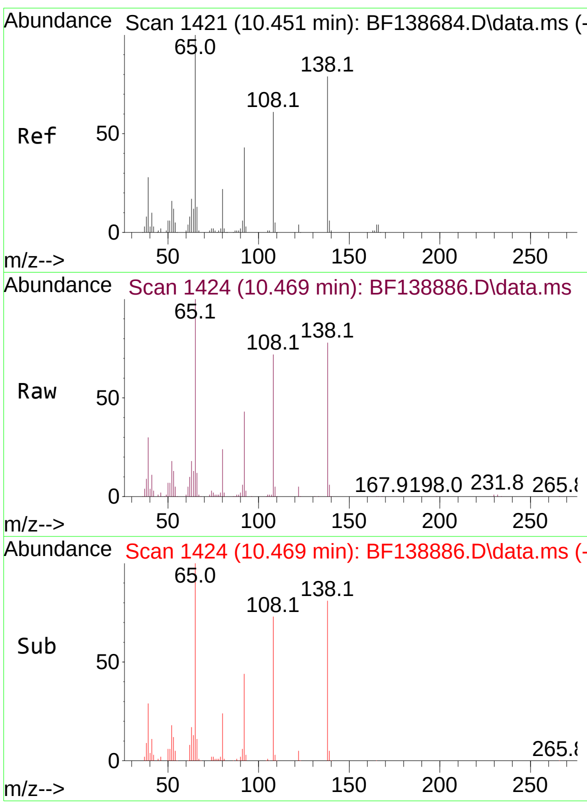
Tgt Ion:204 Resp: 19758

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.1	39.1
141	68.1	51.4	77.0

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

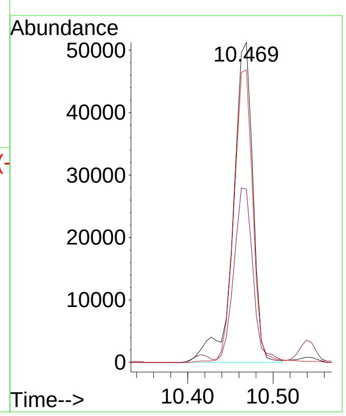




#62
4-Nitroaniline
Concen: 42.815 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.018 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:138 Resp: 82366

Ion	Ratio	Lower	Upper
138	100		
92	54.2	34.2	74.2
108	91.4	56.2	96.2

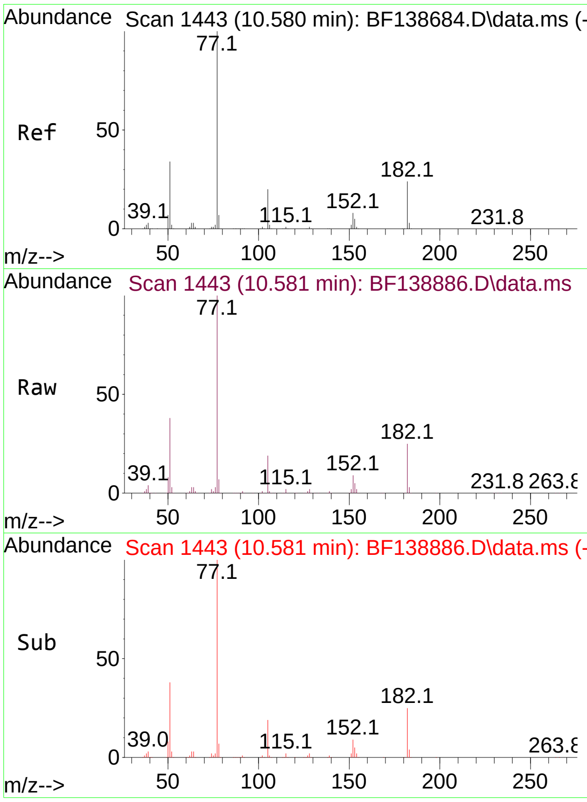


Sample Results: **BF138886.D**

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

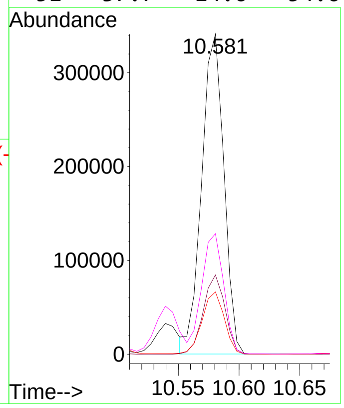
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

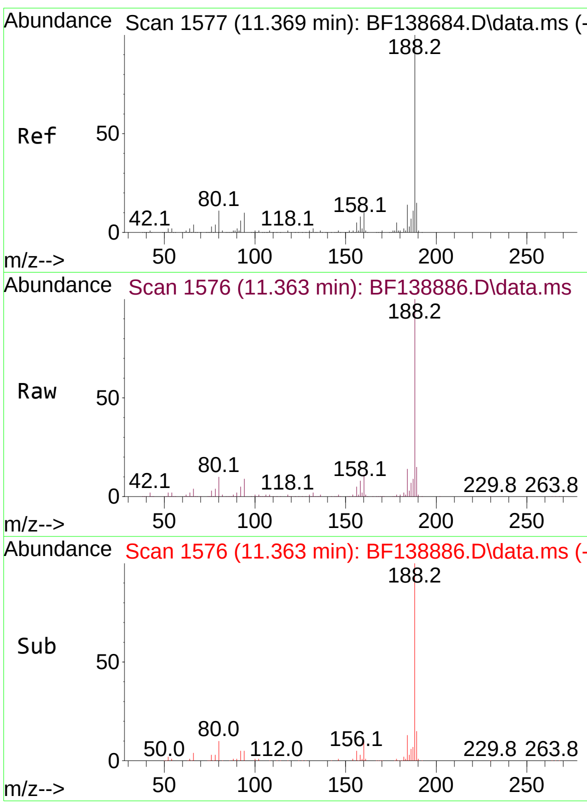


#63
Azobenzene
Concen: 47.562 ng
RT: 10.581 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 77 Resp: 43398

Ion	Ratio	Lower	Upper
77	100		
182	24.7	3.4	43.4
105	19.5	0.2	40.2
51	37.7	14.6	54.6

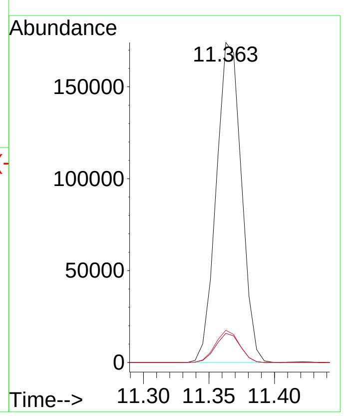


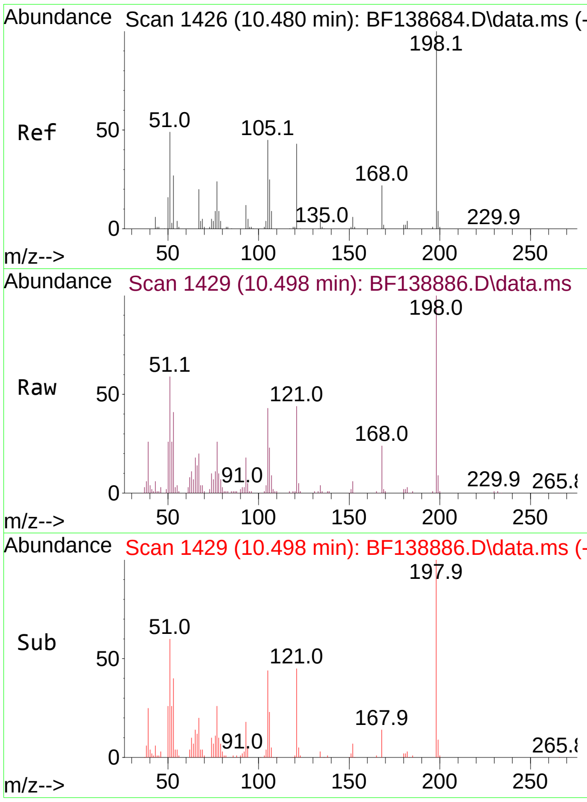


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:188 Resp: 232367

Ion	Ratio	Lower	Upper
188	100		
94	9.1	7.6	11.4
80	10.0	8.6	12.8





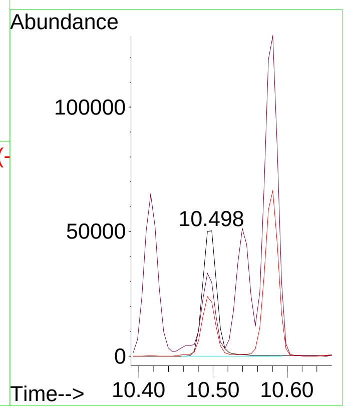
#65
4,6-Dinitro-2-methylphenol
Concen: 48.522 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.018 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

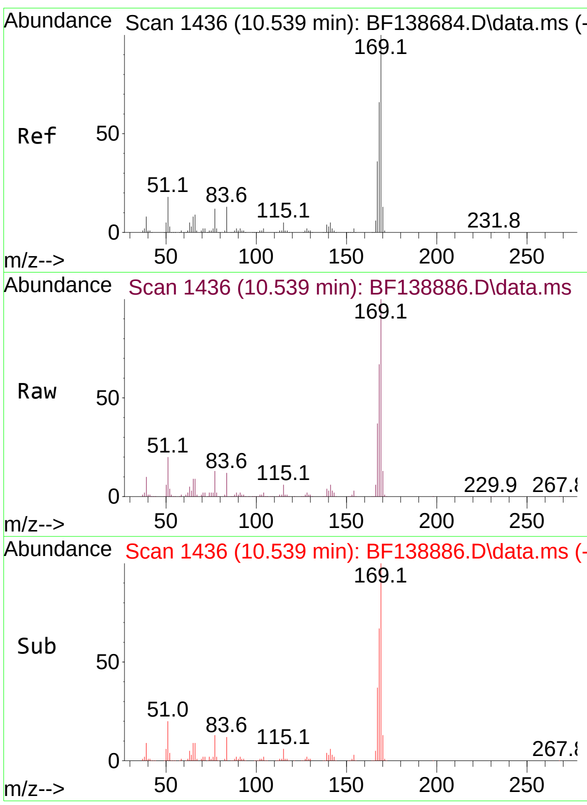
Instrument :
BNA_F
ClientSampleId :
PB162489BS

Tgt Ion:198 Resp: 68786

Ion	Ratio	Lower	Upper
198	100		
51	58.8	39.9	79.9
105	43.1	26.1	66.1

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

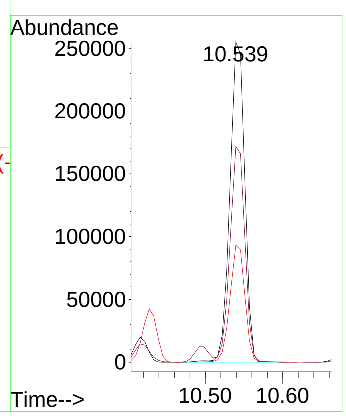


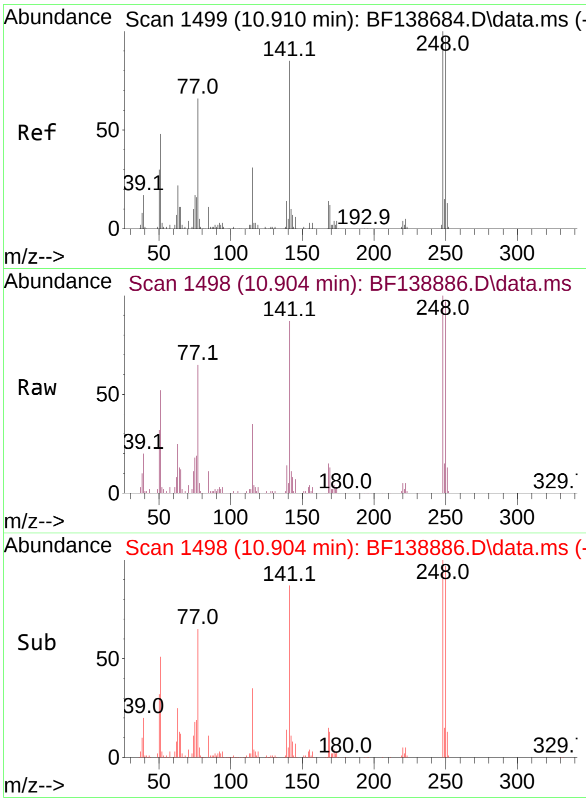


#66
n-Nitrosodiphenylamine
Concen: 47.026 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:169 Resp: 341567

Ion	Ratio	Lower	Upper
169	100		
168	67.4	53.0	79.6
167	36.6	29.0	43.6





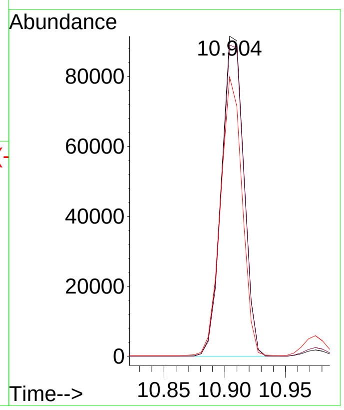
#67
4-Bromophenyl-phenylether
Concen: 46.952 ng
RT: 10.904 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

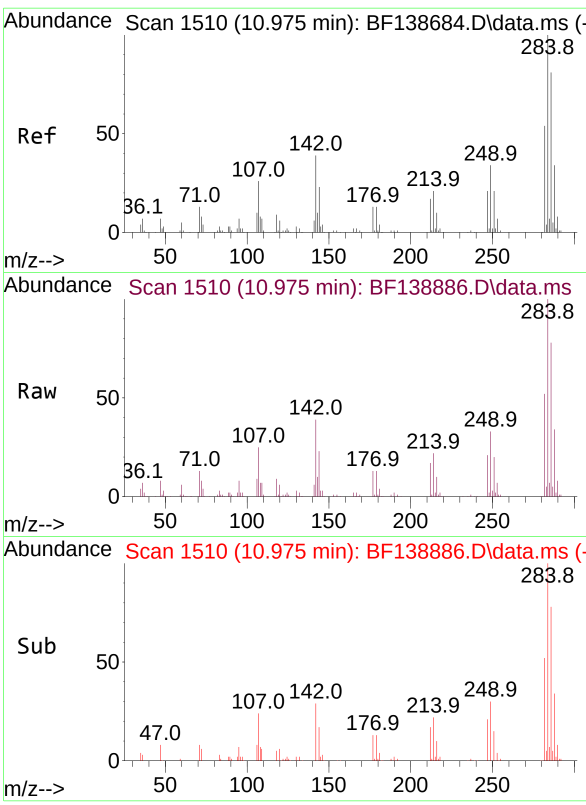
Tgt Ion:248 Resp: 11812

Ion	Ratio	Lower	Upper
248	100		
250	97.2	77.7	116.5
141	87.3	68.0	102.0

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

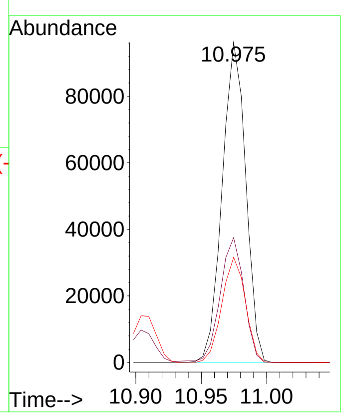




#68
Hexachlorobenzene
Concen: 46.353 ng
RT: 10.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:284 Resp: 120407

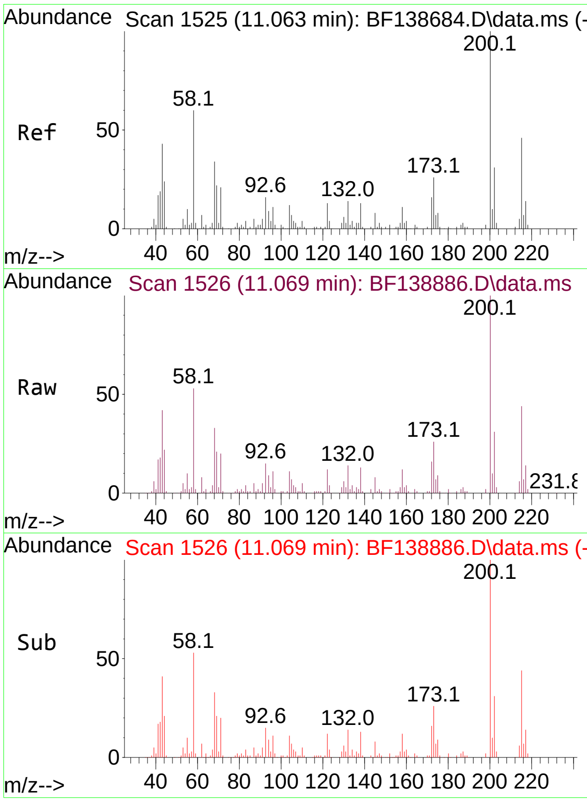
Ion	Ratio	Lower	Upper
284	100		
142	39.0	31.3	46.9
249	32.8	27.2	40.8



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

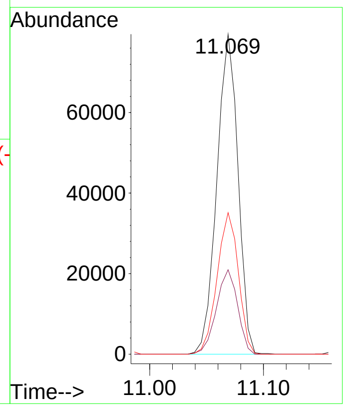
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

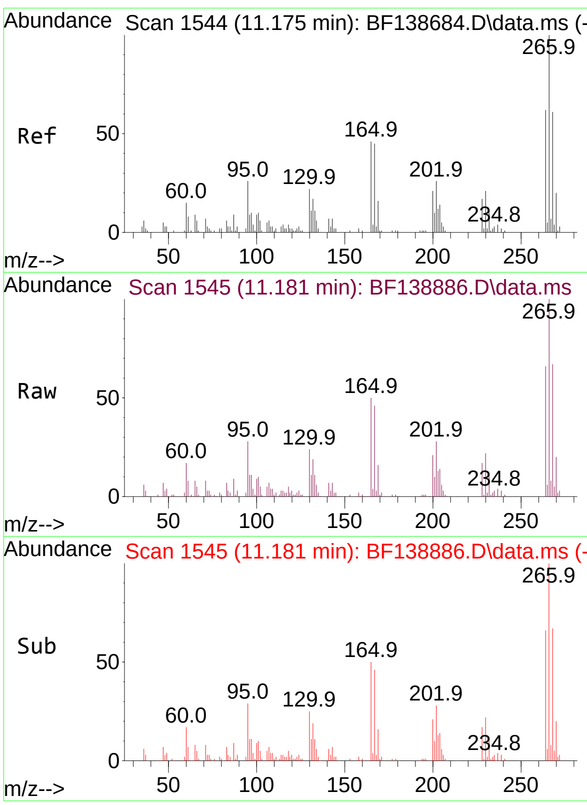


#69
Atrazine
Concen: 54.788 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:200 Resp: 10266

Ion	Ratio	Lower	Upper
200	100		
173	26.4	6.0	46.0
215	44.2	26.1	66.1

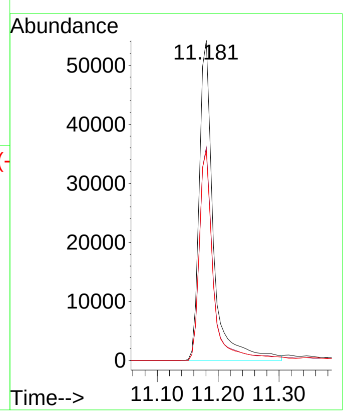




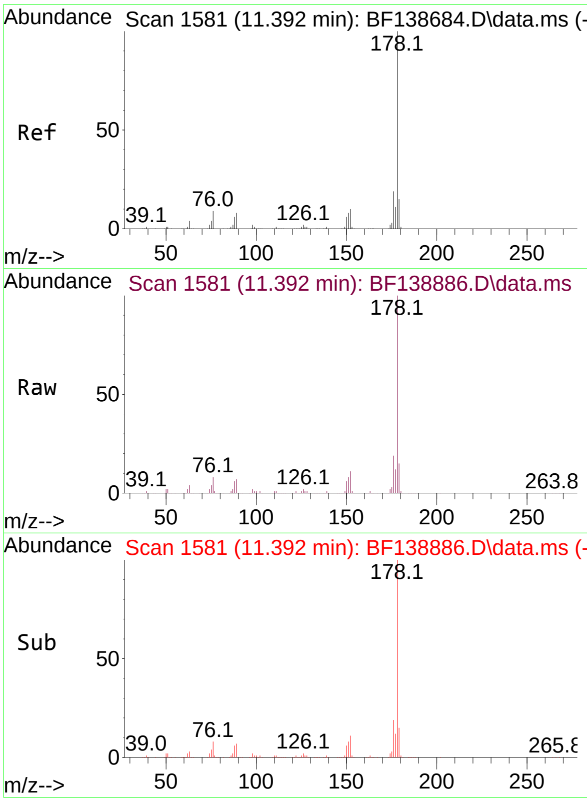
#70
Pentachlorophenol
Concen: 75.124 ng
RT: 11.181 min Scan# 1545
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:266 Resp: 87959

Ion	Ratio	Lower	Upper
266	100		
268	66.6	49.2	73.8
264	65.5	49.8	74.6



Sample Results: **BF138886.D**



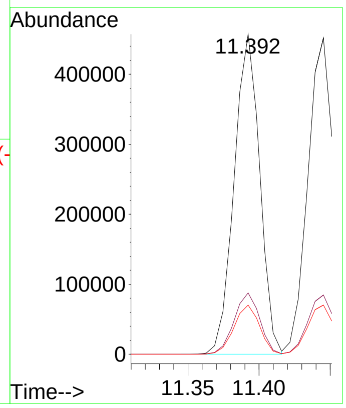
#71
Phenanthrene
Concen: 47.817 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

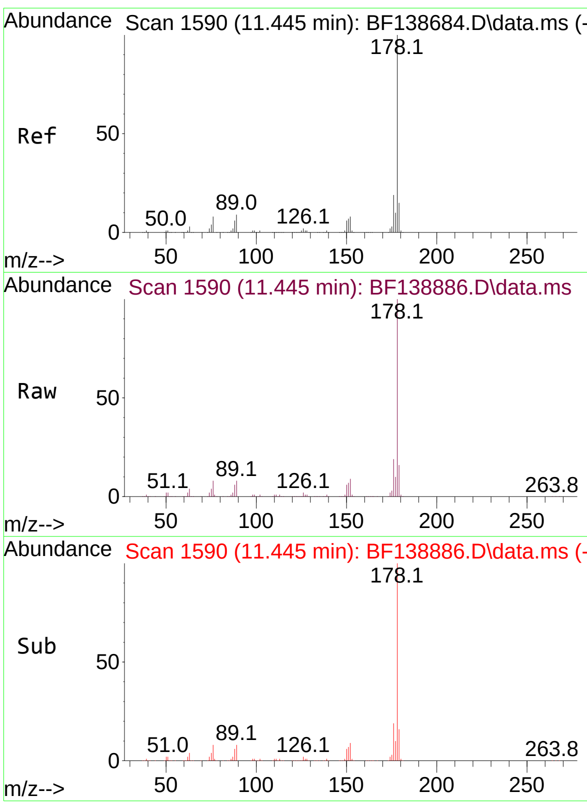
Instrument :
BNA_F
ClientSampleId :
PB162489BS

Tgt Ion:178 Resp: 57213

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.3	12.2	18.2

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

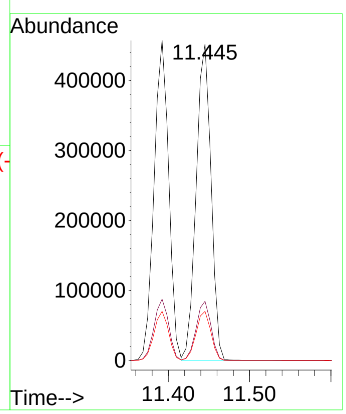




#72
Anthracene
Concen: 48.989 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:178 Resp: 577450

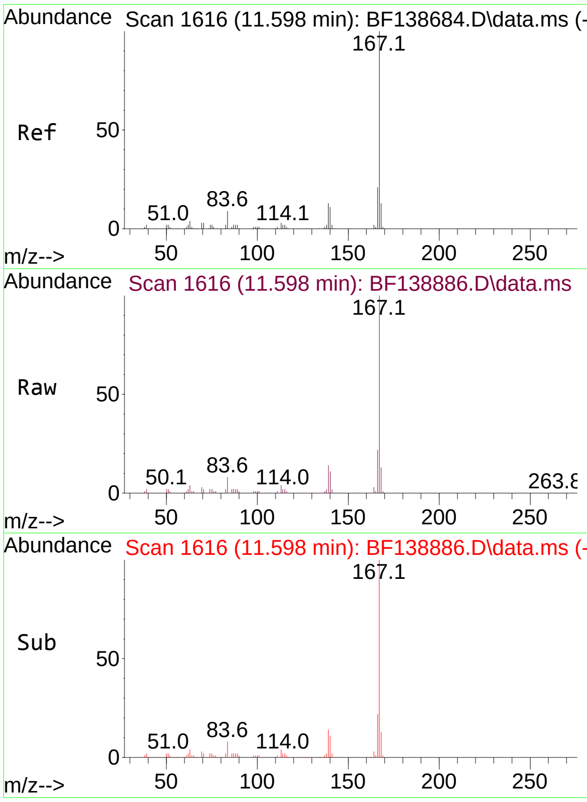
Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	15.5	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED

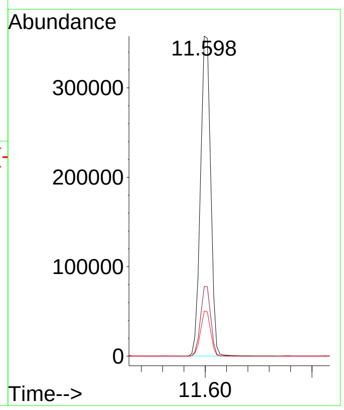
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

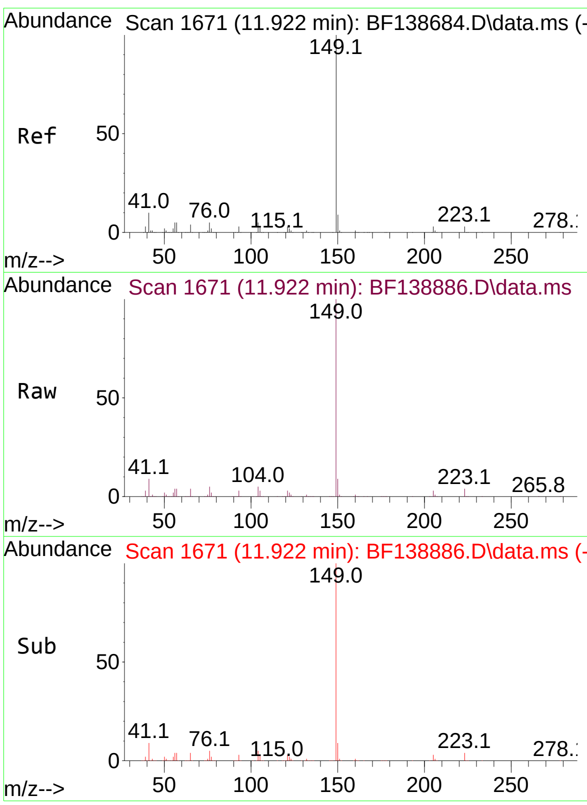


#73
Carbazole
Concen: 46.729 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:167 Resp: 47520

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.2	25.8
139	14.1	10.6	16.0

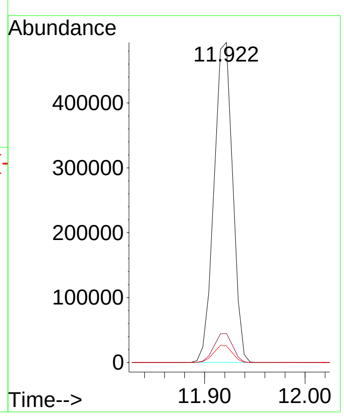


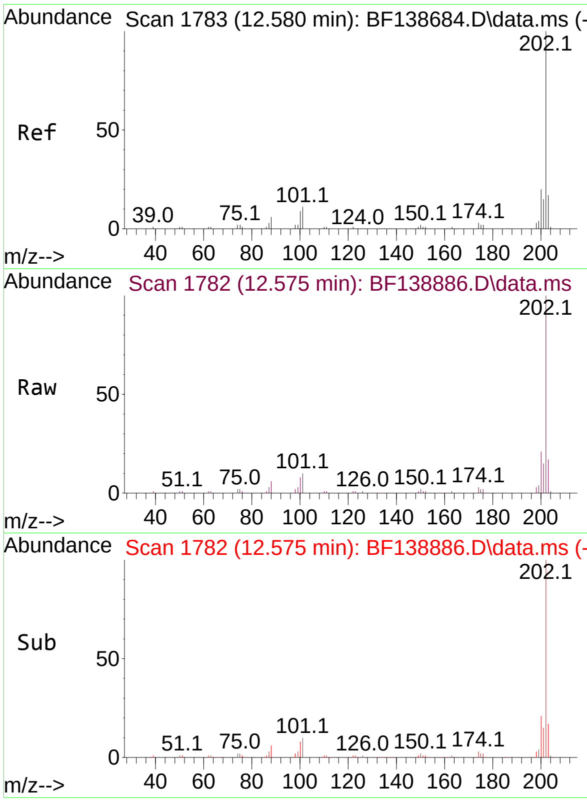


#74
Di-n-butylphthalate
Concen: 55.806 ng
RT: 11.922 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:149 Resp: 637976

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.1	6.1





#75
Fluoranthene
Concen: 48.844 ng
RT: 12.575 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

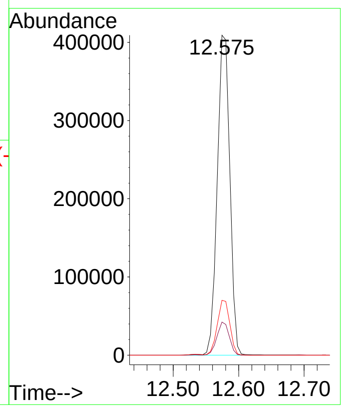
Instrument :
BNA_F
ClientSampleId :
PB162489BS

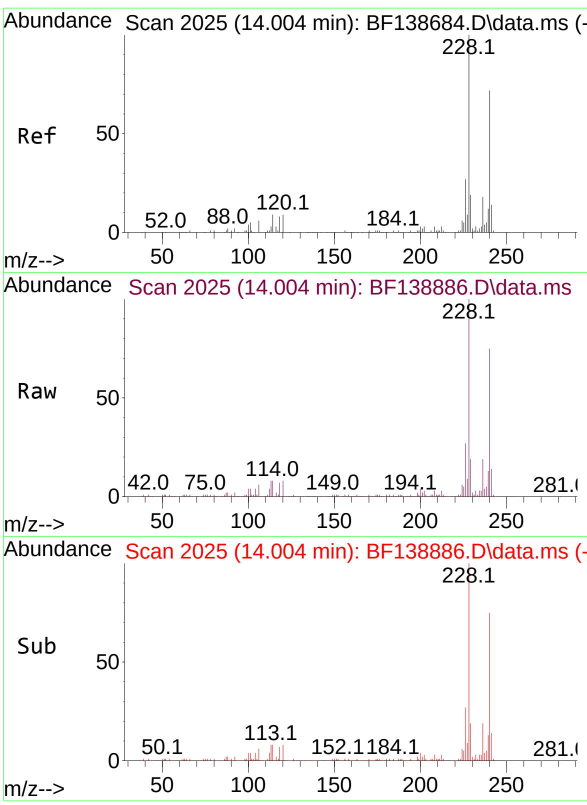
Tgt Ion:202 Resp: 54559

Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	31.2
203	17.1	0.0	37.3

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

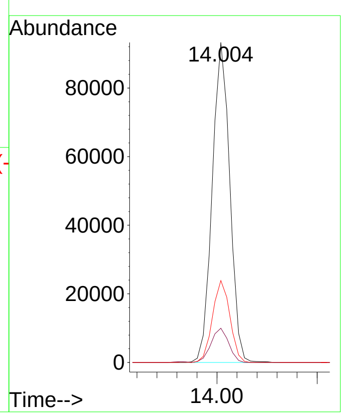




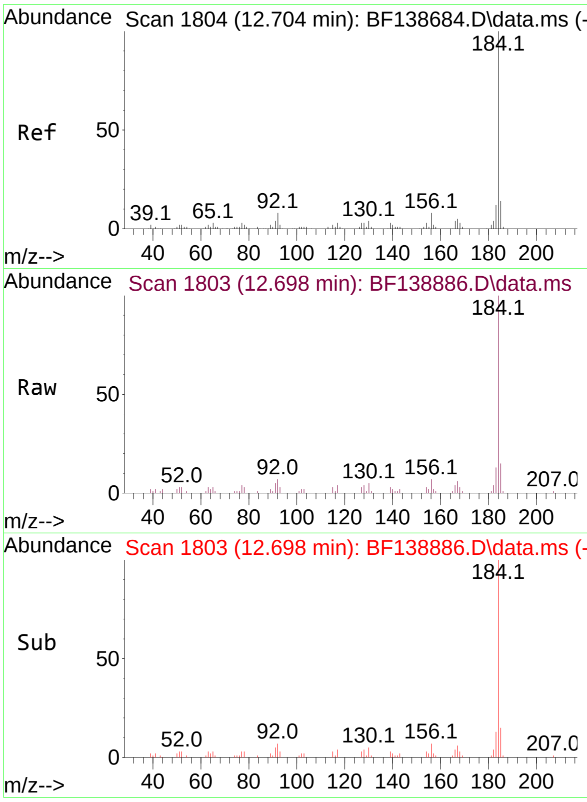
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:240 Resp: 113862

Ion	Ratio	Lower	Upper
240	100		
120	10.7	10.2	15.4
236	25.6	19.8	29.8



Sample Results: **BF138886.D**



#77
Benzidine
Concen: 13.101 ng
RT: 12.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

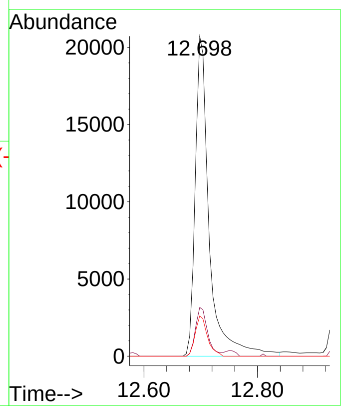
Instrument :
BNA_F
ClientSampleId :
PB162489BS

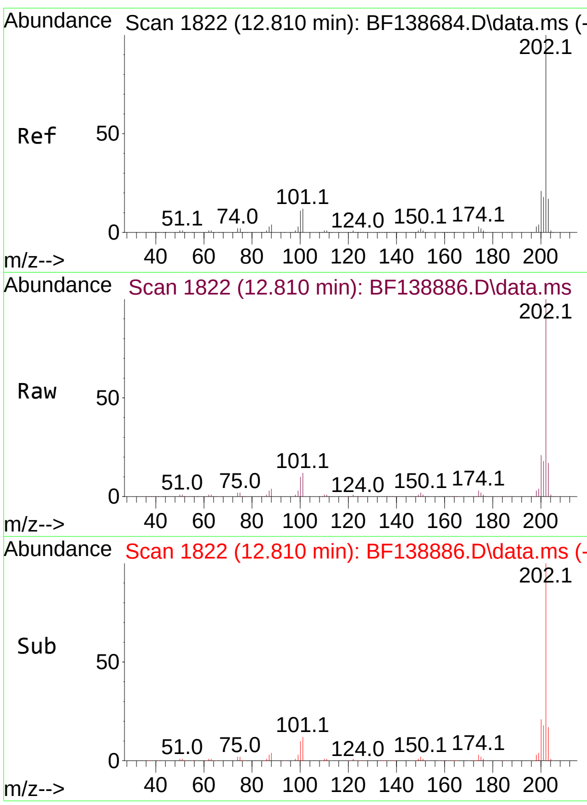
Tgt Ion:184 Resp: 3567

Ion	Ratio	Lower	Upper
184	100		
185	15.3	11.1	16.7
183	12.6	9.6	14.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

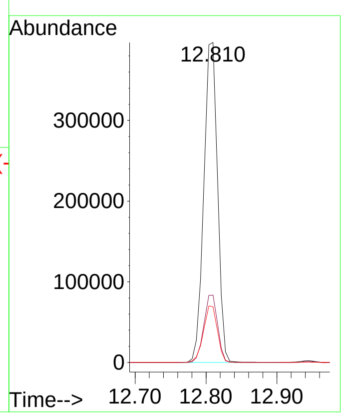




#78
Pyrene
Concen: 50.108 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:202 Resp: 537177

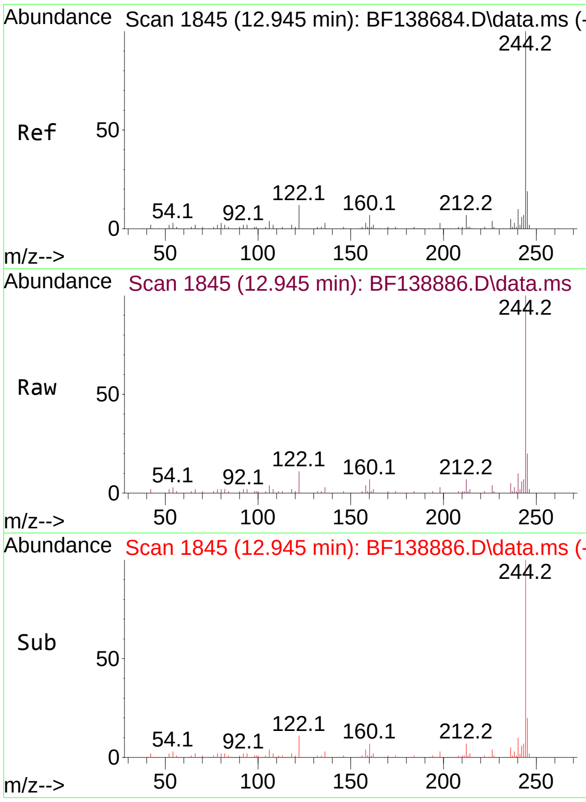
Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.4	13.8	20.6



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED

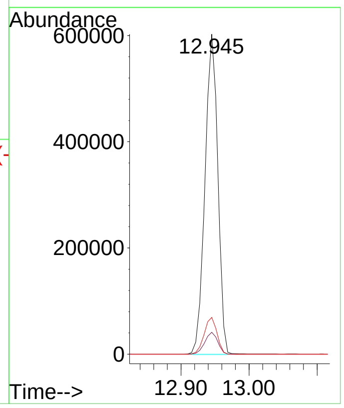
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

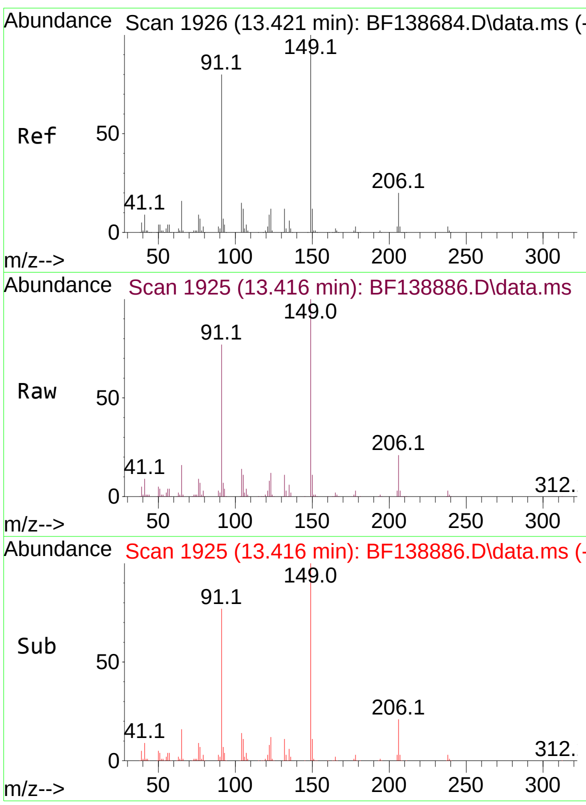


#79
Terphenyl-d14
Concen: 116.392 ng
RT: 12.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:244 Resp: 79154

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.2
122	11.5	9.6	14.4

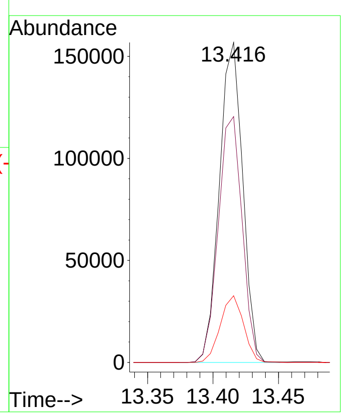


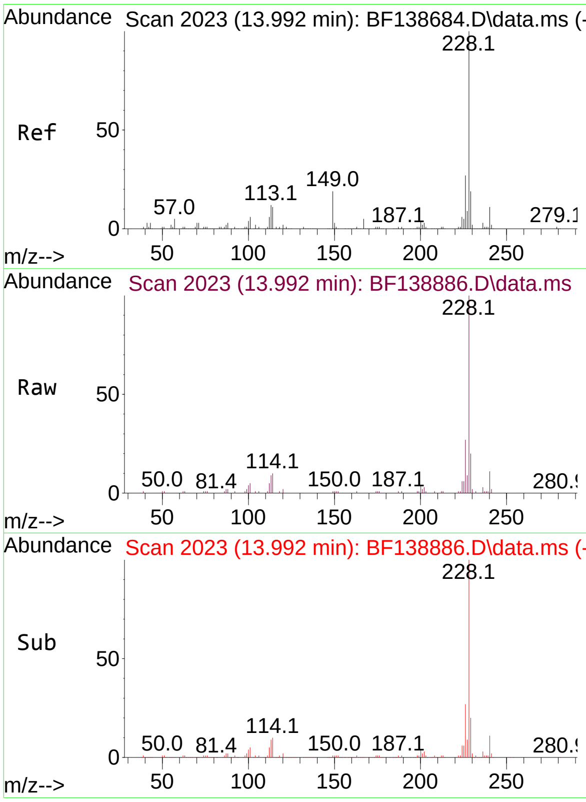


#80
Butylbenzylphthalate
Concen: 56.722 ng
RT: 13.416 min Scan# 1925
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:149 Resp: 194726

Ion	Ratio	Lower	Upper
149	100		
91	76.8	63.7	95.5
206	20.8	16.2	24.2





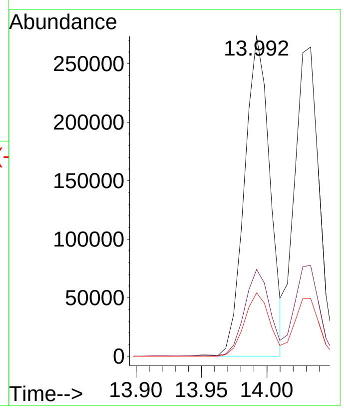
#81
Benzo(a)anthracene
Concen: 46.931 ng
RT: 13.992 min Scan# 20
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

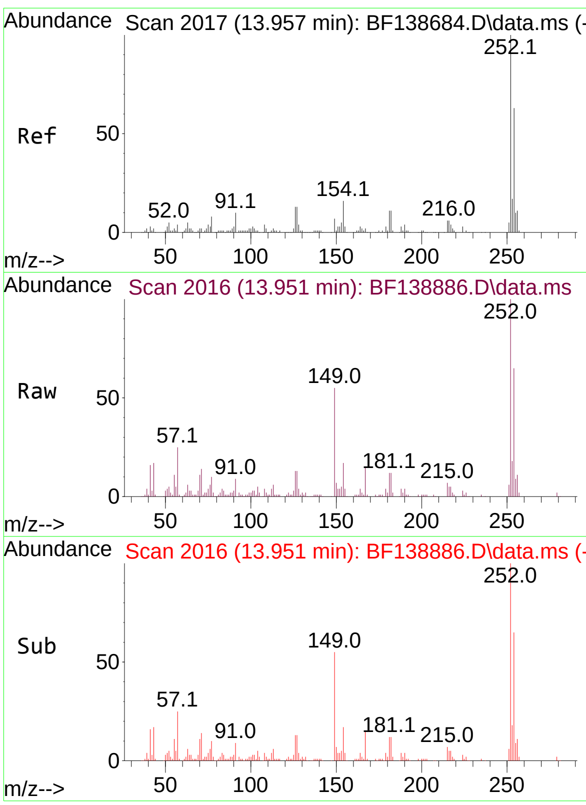
Tgt Ion:228 Resp: 36797

Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.1	33.1
229	19.8	15.4	23.0

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

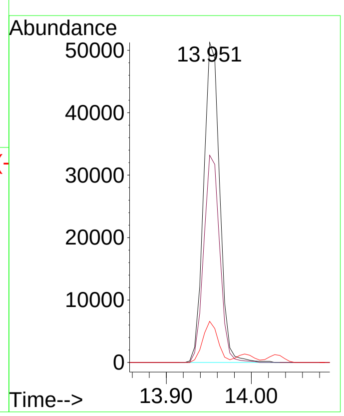


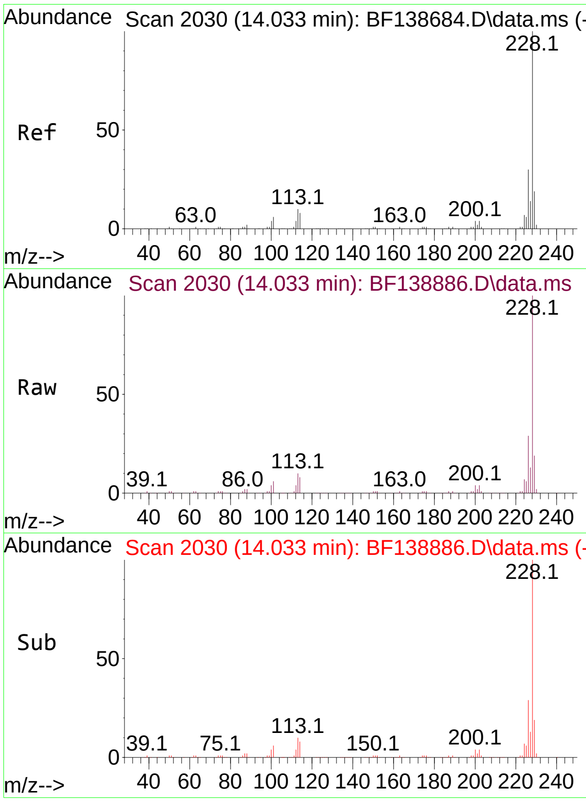


#82
3,3'-Dichlorobenzidine
Concen: 33.568 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:252 Resp: 67353

Ion	Ratio	Lower	Upper
252	100		
254	64.8	50.8	76.2
126	12.8	10.2	15.2





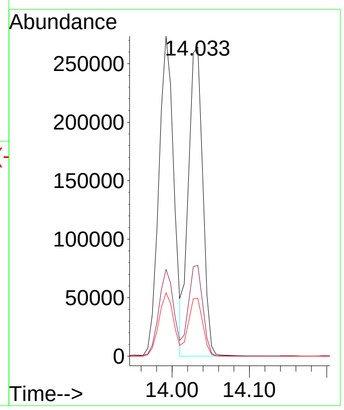
#83
Chrysene
Concen: 48.235 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

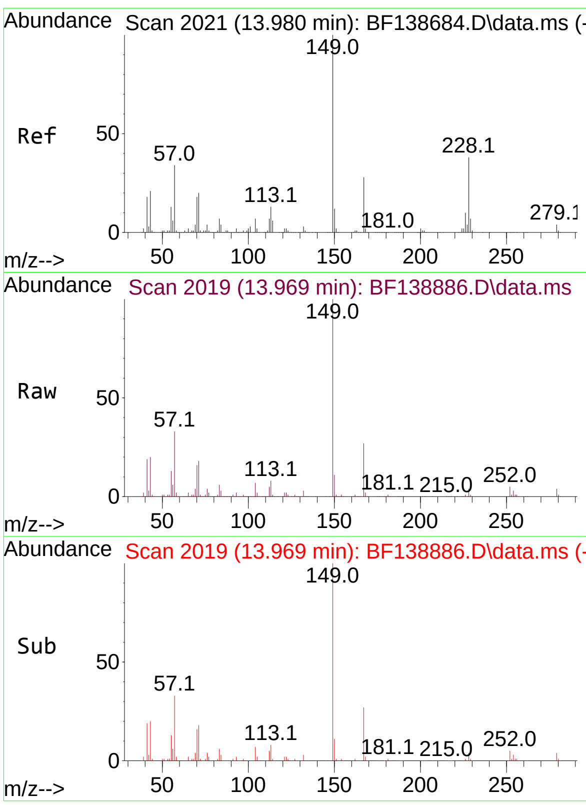
Tgt Ion:228 Resp: 34121

Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.7	35.5
229	18.8	15.0	22.6

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

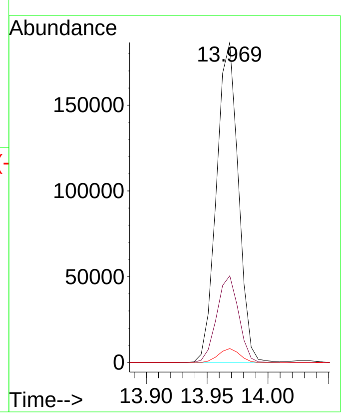




#84
Bis(2-ethylhexyl)phthalate
Concen: 46.482 ng
RT: 13.969 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:149 Resp: 233665

Ion	Ratio	Lower	Upper
149	100		
167	27.1	22.2	33.4
279	4.4	3.4	5.0

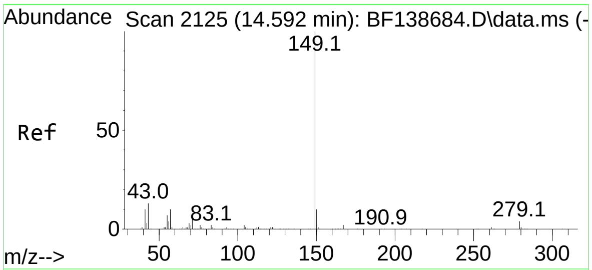


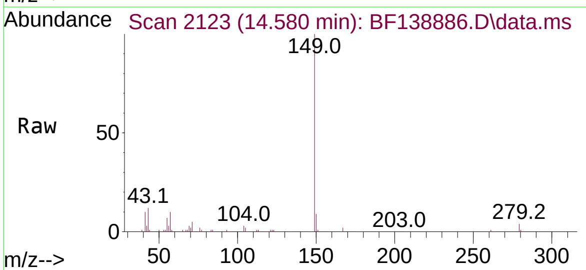
Sample Results: **BF138886.D**

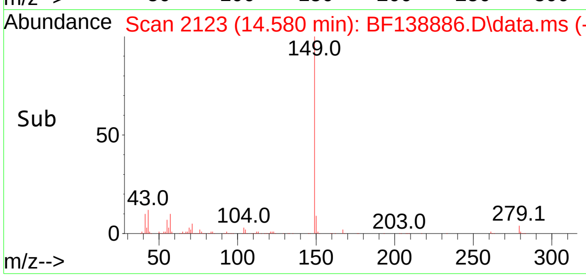
Instrument : BNA_F
ClientSampleId : PB162489BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024



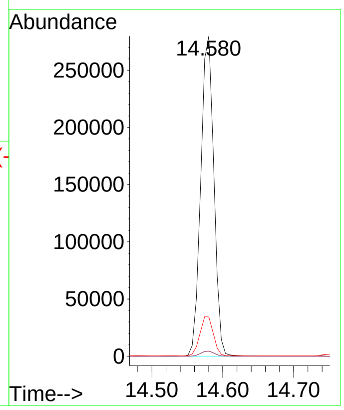


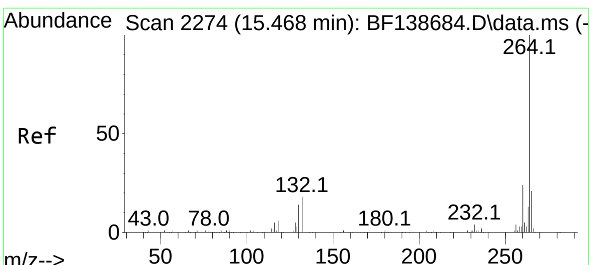


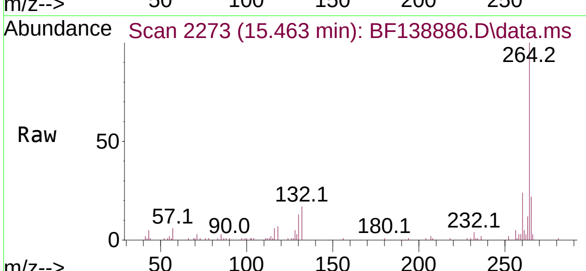
#85
Di-n-octyl phthalate
Concen: 38.907 ng
RT: 14.580 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

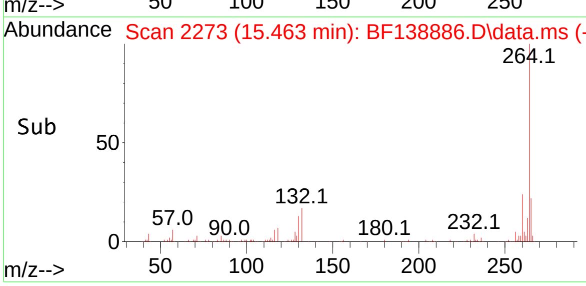
Tgt Ion:149 Resp: 36186

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.4	2.0
43	12.6	10.4	15.6





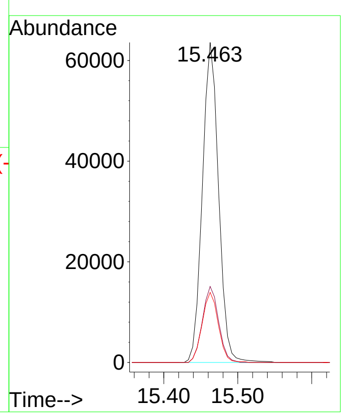




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.463 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:264 Resp: 96864

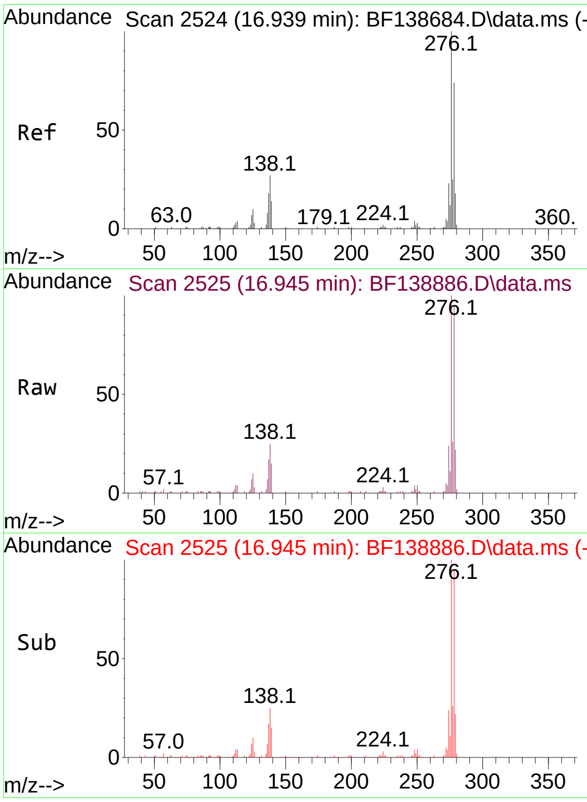
Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.6
265	21.9	17.0	25.6



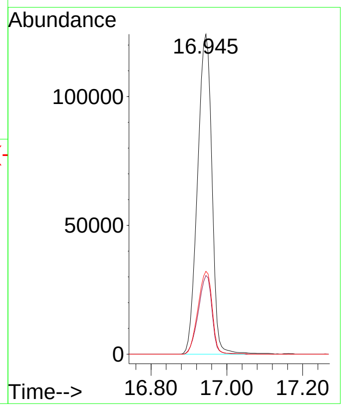
Instrument :
BNA_F
ClientSampleId :
PB162489BS

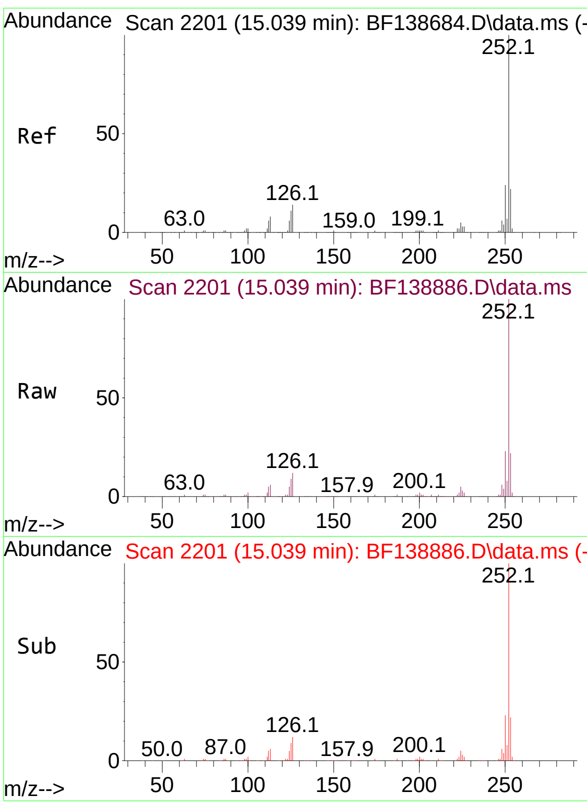
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

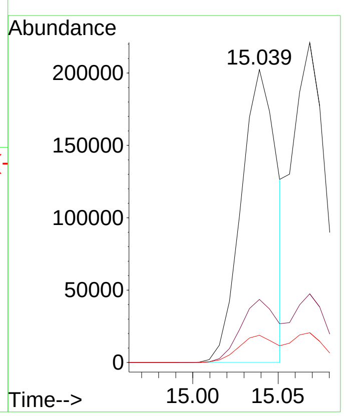


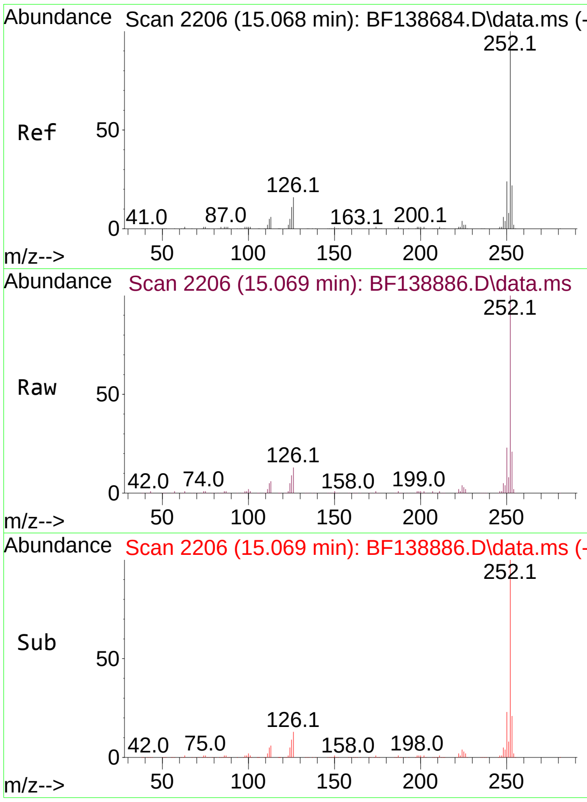

```
#87
Indeno(1,2,3-cd)pyrene
Concen:   47.180 ng
RT:  16.945 min  Scan# 2
Delta R.T.  0.006 min
Lab File:   BF138886.D
Acq: 09 Aug 2024  13:25

Tgt Ion:276 Resp:  32750
Ion  Ratio  Lower  Upper
276  100
138   23.4   21.8   32.8
277   25.5   20.6   30.8
```






```
#88
Benzo(b)fluoranthene
Concen:   48.734 ng
RT:  15.039 min  Scan# 2201
Delta R.T.  0.000 min
Lab File:   BF138886.D
Acq: 09 Aug 2024  13:25

Tgt Ion:252 Resp:  292630
Ion  Ratio  Lower  Upper
252  100
253   21.6   17.5   26.3
125    9.3    8.9   13.3
```





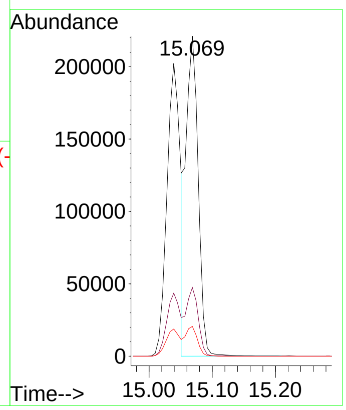
#89
Benzo(k)fluoranthene
Concen: 57.454 ng
RT: 15.069 min   Scan# 2
Delta R.T.   0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024   13:25

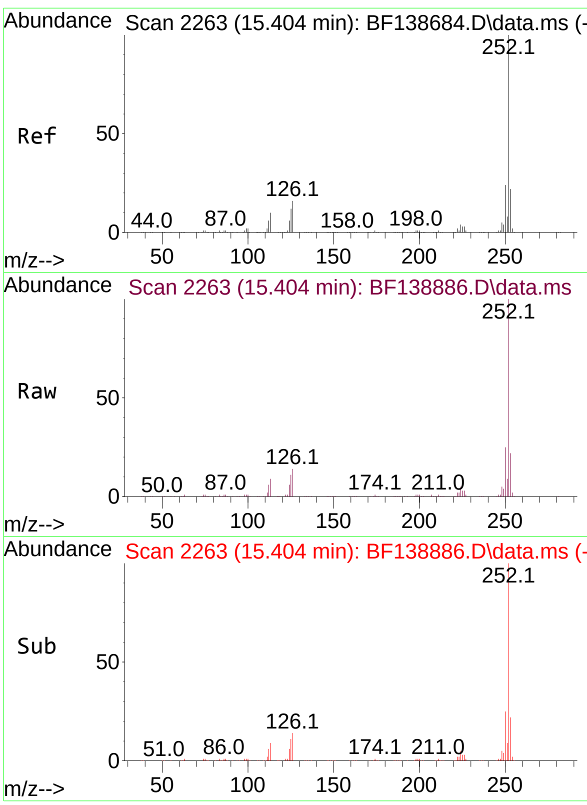
Tgt Ion:252 Resp: 29869

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.0
125	9.3	8.6	13.0

Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel   08/10/2024
Supervised By :mohammad ahmed   08/12/2024

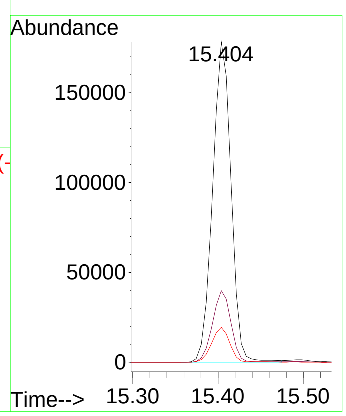




#90
Benzo(a)pyrene
Concen: 53.042 ng
RT: 15.404 min   Scan# 2263
Delta R.T.   0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024   13:25

Tgt Ion:252 Resp: 267903

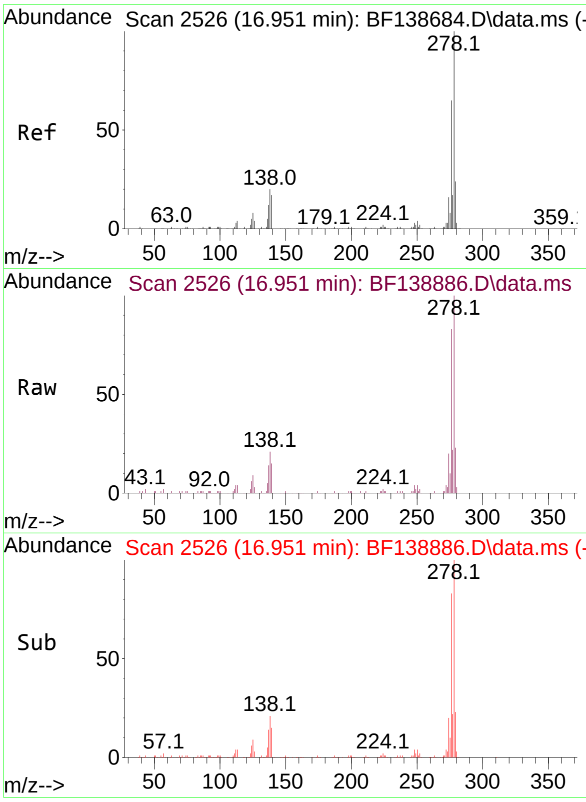
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.3	25.9
125	10.9	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
PB162489BS

Manual Integrations APPROVED

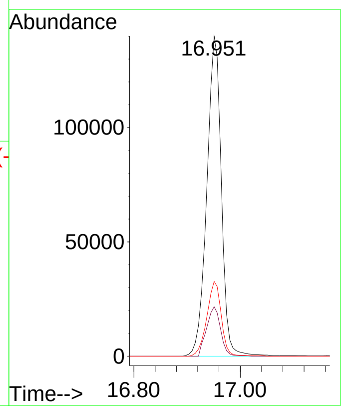
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

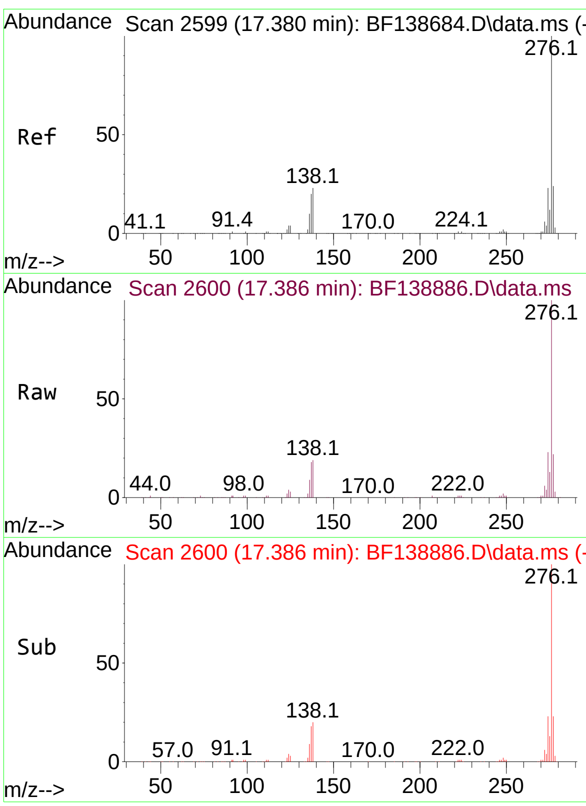


#91
Dibenzo(a,h)anthracene
Concen: 46.690 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:278 Resp: 26604

Ion	Ratio	Lower	Upper
278	100		
139	15.4	14.0	21.0
279	23.4	19.0	28.4

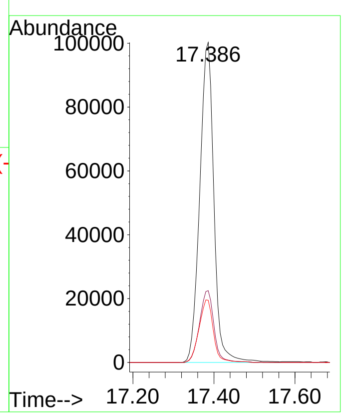




#92
Benzo(g,h,i)perylene
Concen: 41.158 ng
RT: 17.386 min Scan# 2600
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:276 Resp: 243369

Ion	Ratio	Lower	Upper
276	100		
277	22.5	19.0	28.4
138	19.5	18.5	27.7



Raw Data: **BF139004.D**

Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MS	SDG No.:	P3467
Lab Sample ID:	P3466-02MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group6
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139004.D	1	08/05/24 08:25	08/14/24 20:16	PB162489

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	16.2		1.60	5.10	ug/L
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
95-48-7	2-Methylphenol	35.8		1.20	5.10	ug/L
98-86-2	Acetophenone	55.8		1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	32.7		1.20	10.2	ug/L
98-95-3	Nitrobenzene	54.7		1.30	5.10	ug/L
120-83-2	2,4-Dichlorophenol	49.5		0.90	5.10	ug/L
91-20-3	Naphthalene	49.4		1.00	5.10	ug/L
87-68-3	Hexachlorobutadiene	50.5		1.30	5.10	ug/L
91-57-6	2-Methylnaphthalene	48.5		1.20	5.10	ug/L
88-06-2	2,4,6-Trichlorophenol	56.6		0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	53.2		1.00	5.10	ug/L
208-96-8	Acenaphthylene	57.6		1.10	5.10	ug/L
83-32-9	Acenaphthene	52.9		0.83	5.10	ug/L
132-64-9	Dibenzofuran	56.6		0.95	5.10	ug/L
86-73-7	Fluorene	57.0		0.98	5.10	ug/L
118-74-1	Hexachlorobenzene	49.6		1.20	5.10	ug/L
87-86-5	Pentachlorophenol	92.4	E	1.90	10.2	ug/L
85-01-8	Phenanthrene	56.1		0.91	5.10	ug/L
86-74-8	Carbazole	61.8		1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	63.6		1.50	5.10	ug/L
206-44-0	Fluoranthene	67.2		1.30	5.10	ug/L
129-00-0	Pyrene	54.2		1.10	5.10	ug/L
56-55-3	Benzo(a)anthracene	56.3		0.96	5.10	ug/L
218-01-9	Chrysene	53.6		0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	61.7		1.90	5.10	ug/L
205-99-2	Benzo(b)fluoranthene	57.9		1.20	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	61.7		1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	58.3		1.70	5.10	ug/L

Raw Data: **BF139004.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MS	SDG No.:	P3467
Lab Sample ID:	P3466-02MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group6
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139004.D	1	08/05/24 08:25	08/14/24 20:16	PB162489

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
193-39-5	Indeno(1,2,3-cd)pyrene	46.7		1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.6		1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	42.5		1.20	5.10	ug/L
123-91-1	1,4-Dioxane	23.5		1.30	5.10	ug/L
90-12-0	1-Methylnaphthalene	44.8		0.88	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	77.1		15 (10) - 110 (139)	51%	SPK: 150
13127-88-3	Phenol-d6	45.0		15 (10) - 110 (134)	30%	SPK: 150
4165-60-0	Nitrobenzene-d5	104		30 (49) - 130 (133)	104%	SPK: 100
321-60-8	2-Fluorobiphenyl	103		30 (52) - 130 (132)	103%	SPK: 100
118-79-6	2,4,6-Tribromophenol	157		15 (32) - 110 (145)	105%	SPK: 150
1718-51-0	Terphenyl-d14	115		30 (36) - 130 (145)	115%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	32200	6.834			
1146-65-2	Naphthalene-d8	114000	8.116			
15067-26-2	Acenaphthene-d10	51500	9.869			
1517-22-2	Phenanthrene-d10	97200	11.357			
1719-03-5	Chrysene-d12	61700	13.998			
1520-96-3	Perylene-d12	47300	15.462			

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139004.D
Acq On : 14 Aug 2024 20:16
Operator : RC/JU
Sample : P3466-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

Quant Time: Aug 15 01:12:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.834	152	32155	20.000	ng		-0.01
21) Naphthalene-d8	8.116	136	113510	20.000	ng		-0.01
39) Acenaphthene-d10	9.869	164	51515	20.000	ng		-0.01
64) Phenanthrene-d10	11.357	188	97165	20.000	ng		-0.01
76) Chrysene-d12	13.998	240	61682	20.000	ng		0.00
86) Perylene-d12	15.462	264	47286	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.475	112	160599	77.098	ng		0.00
7) Phenol-d6	6.487	99	125860	45.003	ng		0.00
23) Nitrobenzene-d5	7.404	82	242476	104.440	ng		0.00
42) 2,4,6-Tribromophenol	10.663	330	66212	156.909	ng		0.00
45) 2-Fluorobiphenyl	9.186	172	351717	102.583	ng		-0.02
79) Terphenyl-d14	12.939	244	421843	114.503	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.616	88	21000	23.027	ng	#	90
3) Pyridine	3.393	79	35046	15.864	ng	#	91
4) n-Nitrosodimethylamine	3.328	42	45113	34.287	ng		81
6) Aniline	6.504	93	55501	22.253	ng	#	73
8) 2-Chlorophenol	6.634	128	98124	44.773	ng		98
9) Benzaldehyde	6.398	77	4597	2.742	ng		95
10) Phenol	6.498	94	52572	17.854	ng	#	62
11) bis(2-Chloroethyl)ether	6.575	93	118877	52.462	ng		98
12) 1,3-Dichlorobenzene	6.775	146	104654	42.660	ng		96
13) 1,4-Dichlorobenzene	6.851	146	108298	43.743	ng		98
14) 1,2-Dichlorobenzene	7.004	146	102243	44.189	ng		98
15) Benzyl Alcohol	6.987	79	79848	39.613	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.104	45	192367	49.329	ng		73
17) 2-Methylphenol	7.110	107	63541	35.111	ng	#	78
18) Hexachloroethane	7.345	117	37259	39.980	ng		96
19) n-Nitroso-di-n-propyla...	7.251	70	90763	53.733	ng		98
20) 3+4-Methylphenols	7.263	107	74356	32.023	ng	#	69
22) Acetophenone	7.245	105	152042	54.705	ng		95
24) Nitrobenzene	7.422	77	126711	53.635	ng		98
25) Isophorone	7.663	82	220760	55.686	ng		98
26) 2-Nitrophenol	7.739	139	54623	53.741	ng		93
27) 2,4-Dimethylphenol	7.781	122	64344	52.910	ng		96
28) bis(2-Chloroethoxy)met...	7.869	93	127071	52.635	ng		100
29) 2,4-Dichlorophenol	7.992	162	75807	48.511	ng		98
30) 1,2,4-Trichlorobenzene	8.057	180	88221	48.920	ng		98
31) Naphthalene	8.139	128	289049	48.378	ng		99
32) Benzoic acid	7.898	122	10827	11.326	ng		90
33) 4-Chloroaniline	8.198	127	50121	24.990	ng		97
34) Hexachlorobutadiene	8.251	225	54091	49.521	ng		97
35) Caprolactam	8.563	113	4232	9.076	ng		95
36) 4-Chloro-3-methylphenol	8.681	107	78022	43.688	ng		98
37) 2-Methylnaphthalene	8.828	142	179168	47.482	ng		99
38) 1-Methylnaphthalene	8.928	142	162272	43.886	ng		99
40) 1,2,4,5-Tetrachloroben...	8.992	216	75412	52.698	ng		98
41) Hexachlorocyclopentadiene	8.975	237	8395	27.200	ng		98
43) 2,4,6-Trichlorophenol	9.116	196	48377	55.446	ng		99

Sample Results: **BF139004.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139004.D
Acq On : 14 Aug 2024 20:16
Operator : RC/JU
Sample : P3466-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 15 01:12:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	49765	52.173	ng		98
46) 1,1'-Biphenyl	9.292	154	203844	50.524	ng		99
47) 2-Chloronaphthalene	9.316	162	160805	53.590	ng		98
48) 2-Nitroaniline	9.422	65	60441	59.416	ng		95
49) Acenaphthylene	9.733	152	240207	56.442	ng		99
50) Dimethylphthalate	9.592	163	191710	58.201	ng		100
51) 2,6-Dinitrotoluene	9.663	165	41777	56.199	ng		95
52) Acenaphthene	9.904	154	148246	51.819	ng		99
53) 3-Nitroaniline	9.833	138	32990	42.929	ng		95
54) 2,4-Dinitrophenol	9.957	184	17080	49.912	ng		86
55) Dibenzofuran	10.075	168	223960	55.458	ng		97
56) 4-Nitrophenol	10.022	139	16610	35.942	ng		84
57) 2,4-Dinitrotoluene	10.069	165	55418	58.431	ng	#	81
58) Fluorene	10.416	166	179589	55.844	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.198	232	40515	55.559	ng		95
60) Diethylphthalate	10.286	149	184795	59.168	ng		99
61) 4-Chlorophenyl-phenyle...	10.410	204	87342	55.223	ng		96
62) 4-Nitroaniline	10.451	138	42471	58.155	ng	#	83
63) Azobenzene	10.569	77	193712	55.922	ng		96
65) 4,6-Dinitro-2-methylph...	10.480	198	16986	28.654	ng		92
66) n-Nitrosodiphenylamine	10.528	169	151630	49.925	ng		99
67) 4-Bromophenyl-phenylether	10.898	248	50724	48.217	ng		98
68) Hexachlorobenzene	10.969	284	52847	48.653	ng		99
69) Atrazine	11.057	200	45975	58.672	ng		96
70) Pentachlorophenol	11.169	266	44341	90.567	ng		99
71) Phenanthrene	11.380	178	274991	54.963	ng		99
72) Anthracene	11.433	178	282138	57.242	ng		99
73) Carbazole	11.592	167	257719	60.606	ng		99
74) Di-n-butylphthalate	11.910	149	297984	62.335	ng		99
75) Fluoranthene	12.569	202	307805	65.900	ng		99
77) Benzidine	12.704	184	3914	2.653	ng		96
78) Pyrene	12.804	202	308391	53.102	ng		99
80) Butylbenzylphthalate	13.410	149	131691	70.812	ng		97
81) Benzo(a)anthracene	13.992	228	234539	55.217	ng		99
82) 3,3'-Dichlorobenzidine	13.951	252	55847	51.379	ng		100
83) Chrysene	14.027	228	201206	52.505	ng		99
84) Bis(2-ethylhexyl)phtha...	13.963	149	164690	60.475	ng		99
85) Di-n-octyl phthalate	14.574	149	233843	46.411	ng		98
87) Indeno(1,2,3-cd)pyrene	16.939	276	155066	45.760	ng		94
88) Benzo(b)fluoranthene	15.039	252	166247m	56.715	ng		
89) Benzo(k)fluoranthene	15.063	252	153438	60.458	ng		98
90) Benzo(a)pyrene	15.404	252	140901	57.146	ng		99
91) Dibenzo(a,h)anthracene	16.945	278	127110	45.695	ng		97
92) Benzo(g,h,i)perylene	17.380	276	120309	41.679	ng		96

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

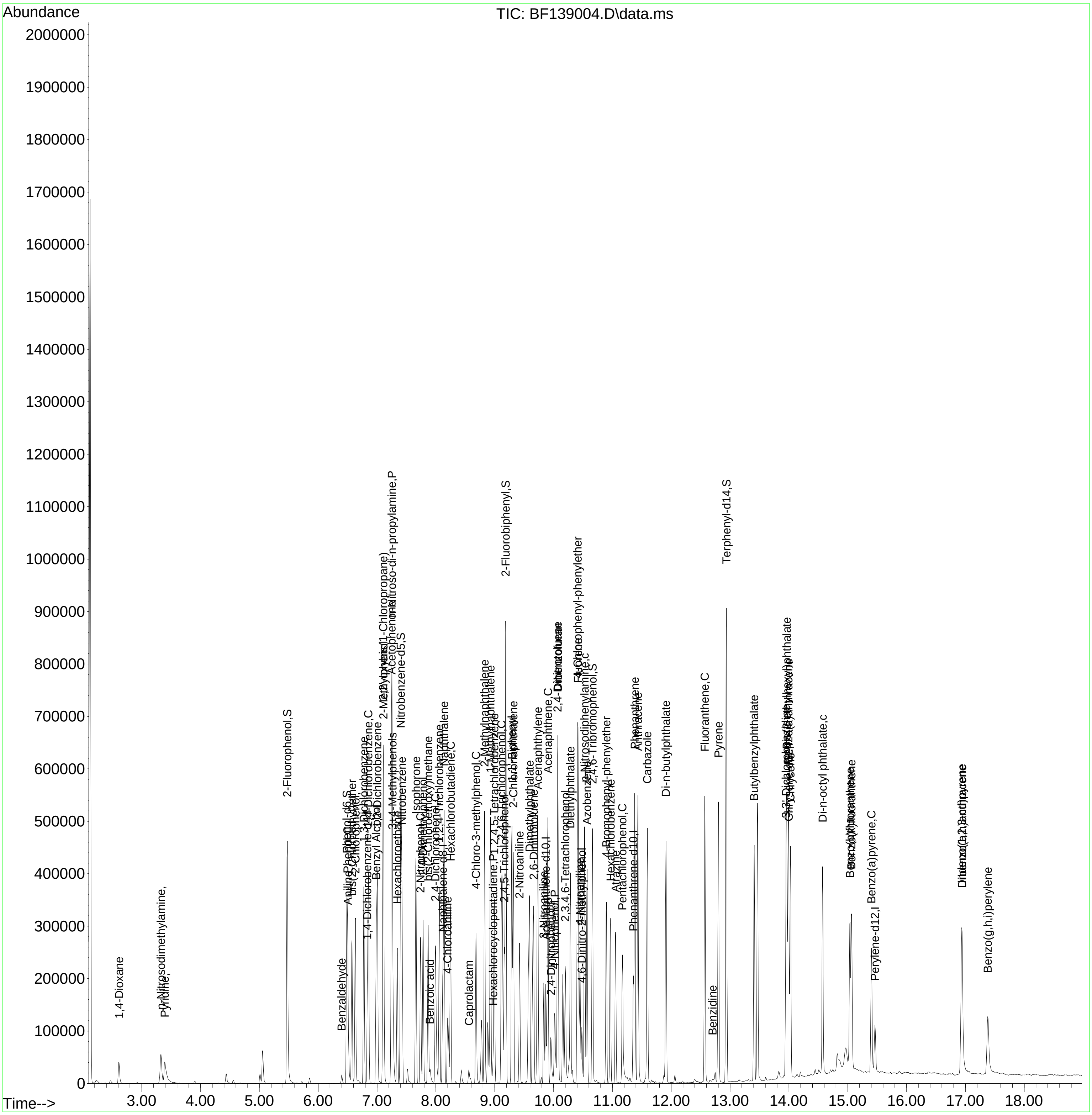
Quantitation Report (QT Reviewed)

Sample Results: **BF139004.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139004.D
Acq On    : 14 Aug 2024  20:16
Operator  : RC/JU
Sample    : P3466-02MS
Misc      :
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Aug 15 01:12:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration
```

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

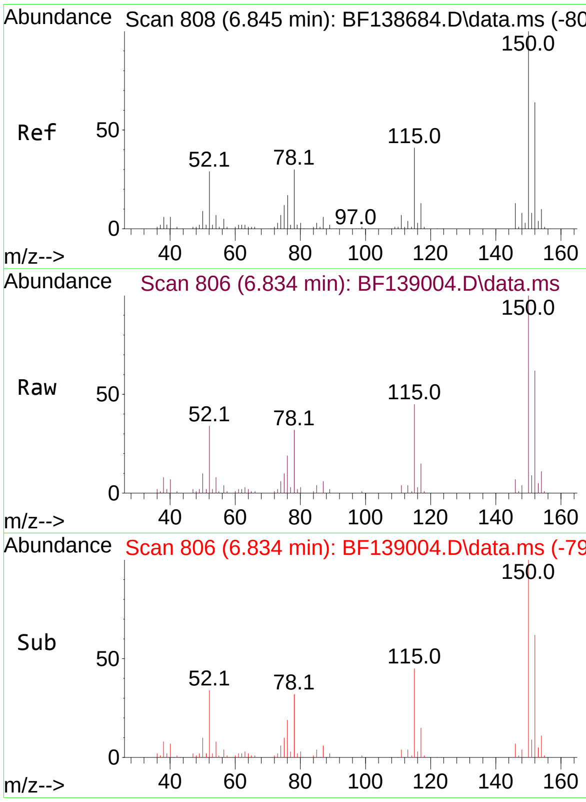
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024



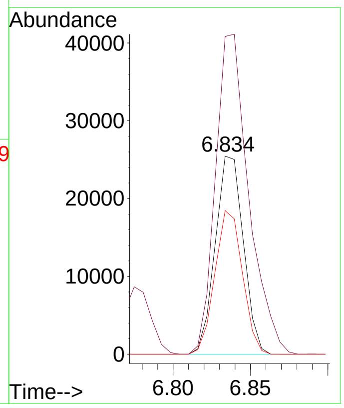
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

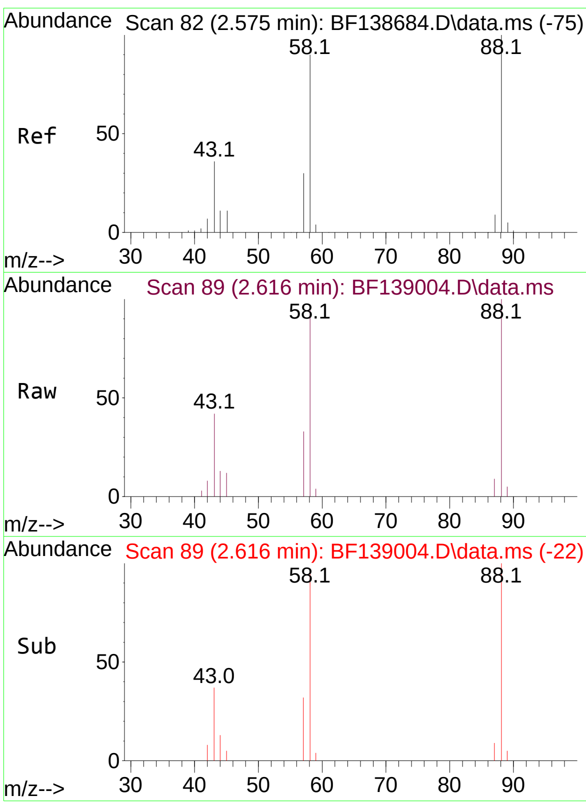
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

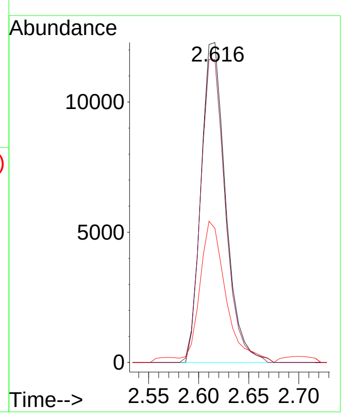



```
#1
1,4-Dichlorobenzene-d4
Concen:   20.000 ng
RT:   6.834 min  Scan# 8
Delta R.T.   -0.011 min
Lab File:    BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion:152 Resp:   3215
Ion  Ratio   Lower  Upper
152  100
150  160.5   126.0  189.0
115   72.5    51.7   77.5
```

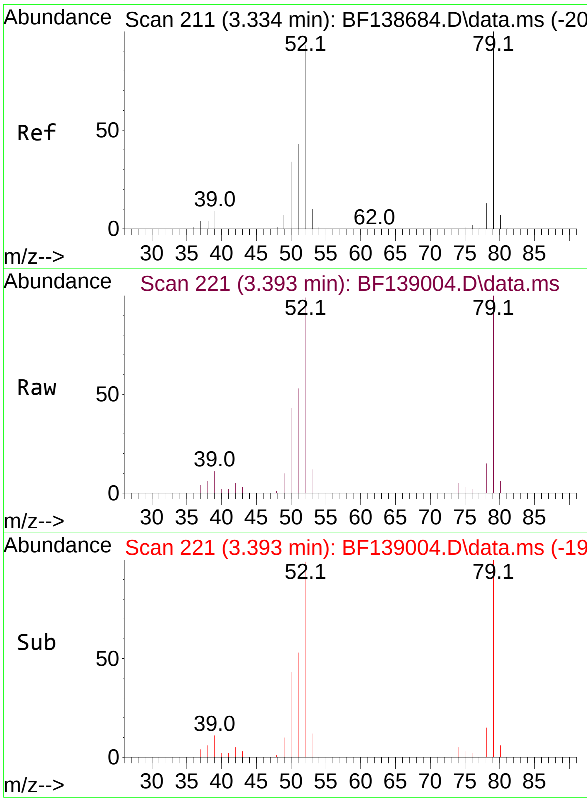





```
#2
1,4-Dioxane
Concen:   23.027 ng
RT:   2.616 min  Scan# 89
Delta R.T.   0.041 min
Lab File:    BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion: 88 Resp:   21000
Ion  Ratio   Lower  Upper
 88  100
 58   95.4    71.6  107.4
 43   46.5    28.7   43.1#
```



Sample Results: **BF139004.D**



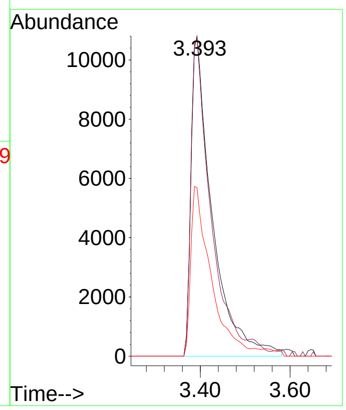
#3
Pyridine
Concen: 15.864 ng
RT: 3.393 min Scan# 2
Delta R.T. 0.059 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

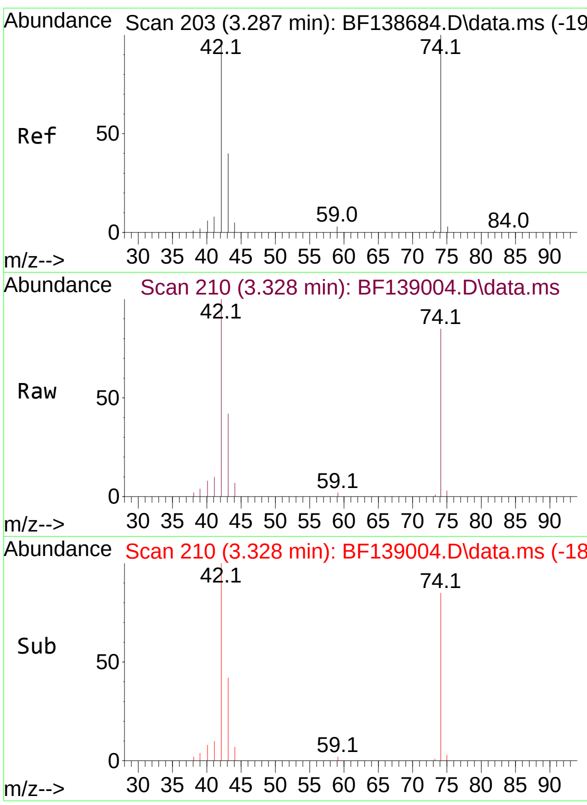
Tgt Ion: 79 Resp: 3504

Ion	Ratio	Lower	Upper
79	100		
52	99.2	74.7	112.1
51	52.6	34.6	51.8

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

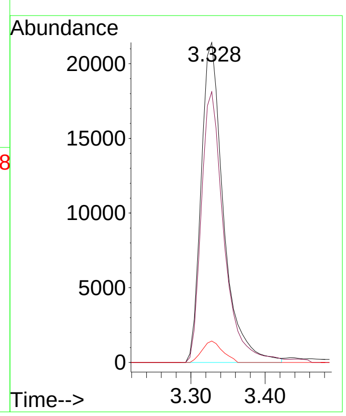




#4
n-Nitrosodimethylamine
Concen: 34.287 ng
RT: 3.328 min Scan# 210
Delta R.T. 0.041 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 42 Resp: 45113

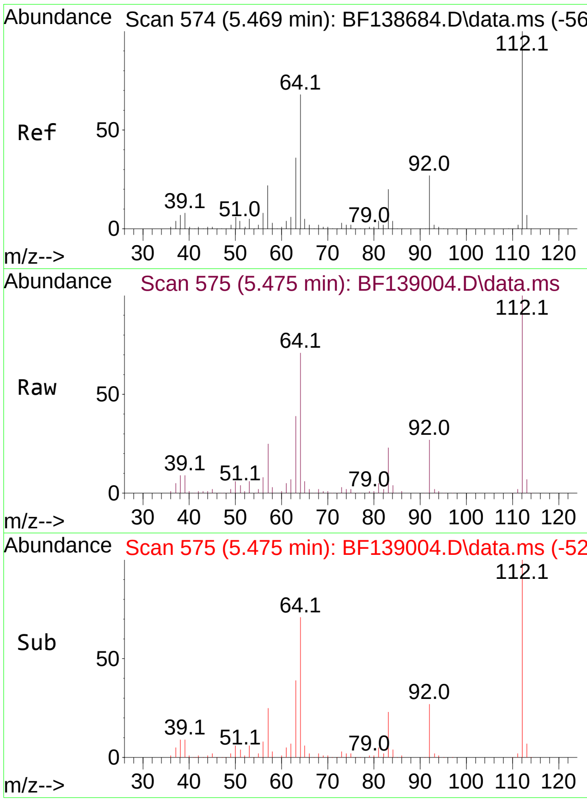
Ion	Ratio	Lower	Upper
42	100		
74	84.6	84.2	126.4
44	6.7	4.9	7.3



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

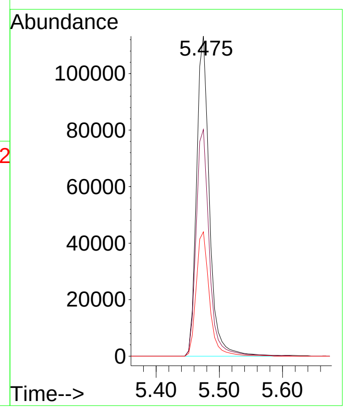
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

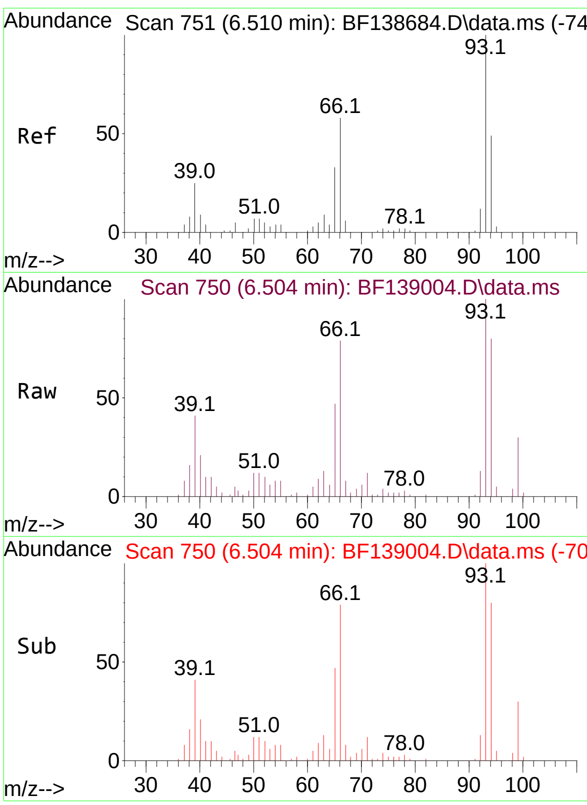


#5
2-Fluorophenol
Concen: 77.098 ng
RT: 5.475 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:112 Resp: 160599

Ion	Ratio	Lower	Upper
112	100		
64	70.8	54.2	81.4
63	38.9	28.7	43.1

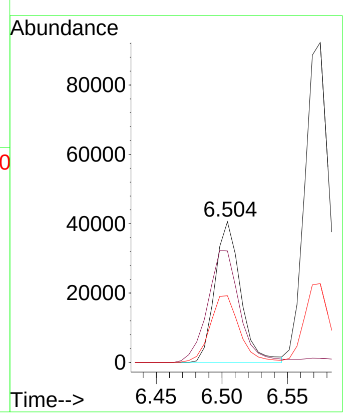




#6
Aniline
Concen: 22.253 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 93 Resp: 55501

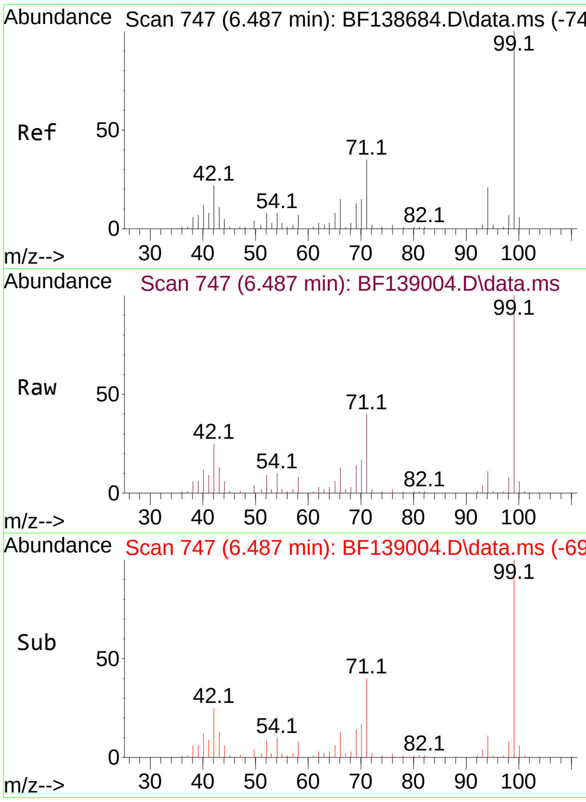
Ion	Ratio	Lower	Upper
93	100		
66	79.2	46.9	70.3#
65	47.4	26.5	39.7#



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

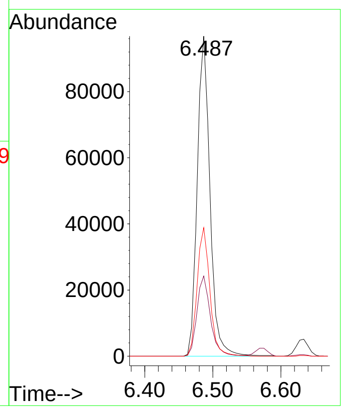
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

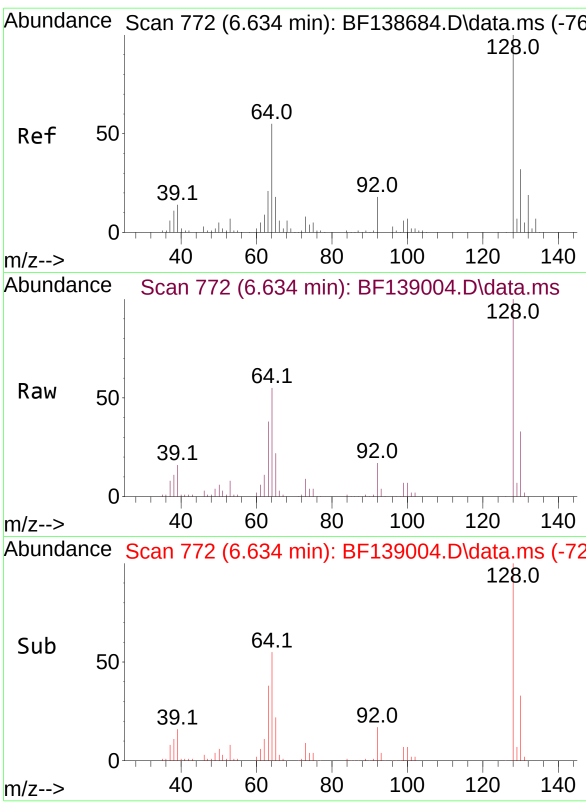


#7
Phenol-d6
Concen: 45.003 ng
RT: 6.487 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 99 Resp: 12586

Ion	Ratio	Lower	Upper
99	100		
42	25.1	17.4	26.0
71	40.1	28.1	42.1

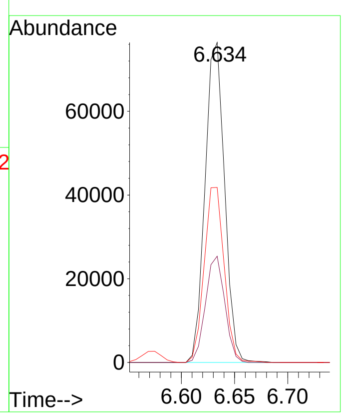




#8
2-Chlorophenol
Concen: 44.773 ng
RT: 6.634 min Scan# 772
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:128 Resp: 98124

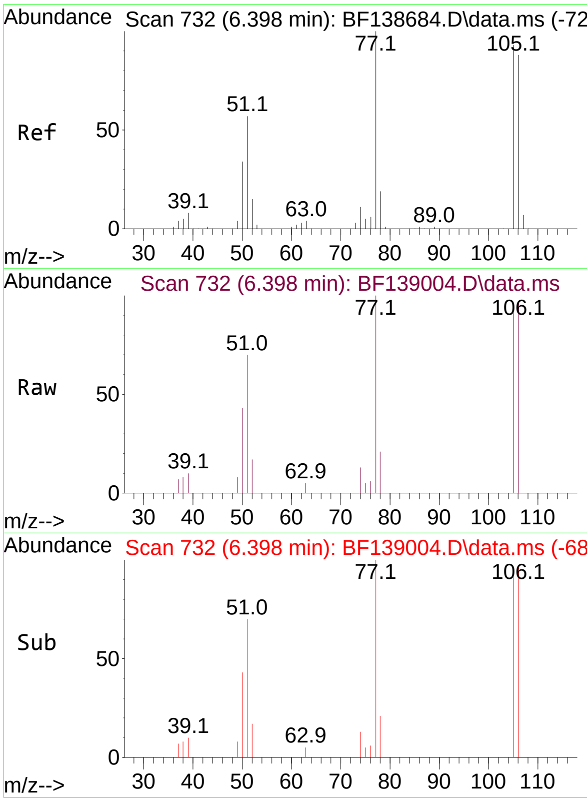
Ion	Ratio	Lower	Upper
128	100		
130	33.2	12.0	52.0
64	54.7	36.3	76.3



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

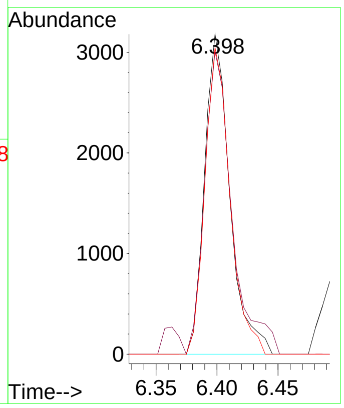
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

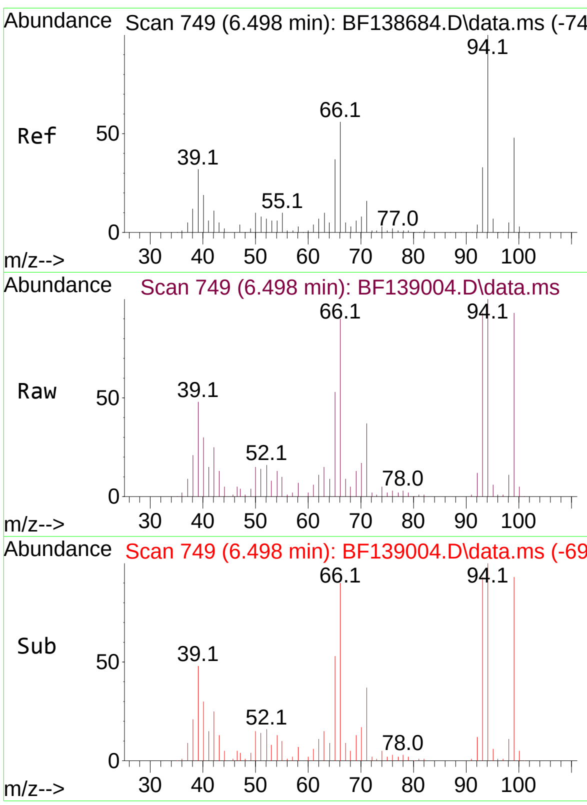


#9
Benzaldehyde
Concen: 2.742 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 77 Resp: 459

Ion	Ratio	Lower	Upper
77	100		
105	94.7	72.9	112.9
106	95.8	68.4	108.4

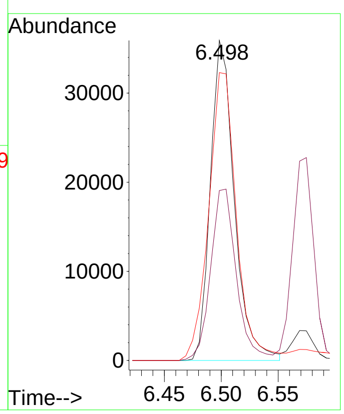




#10
Phenol
Concen: 17.854 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 94 Resp: 52572

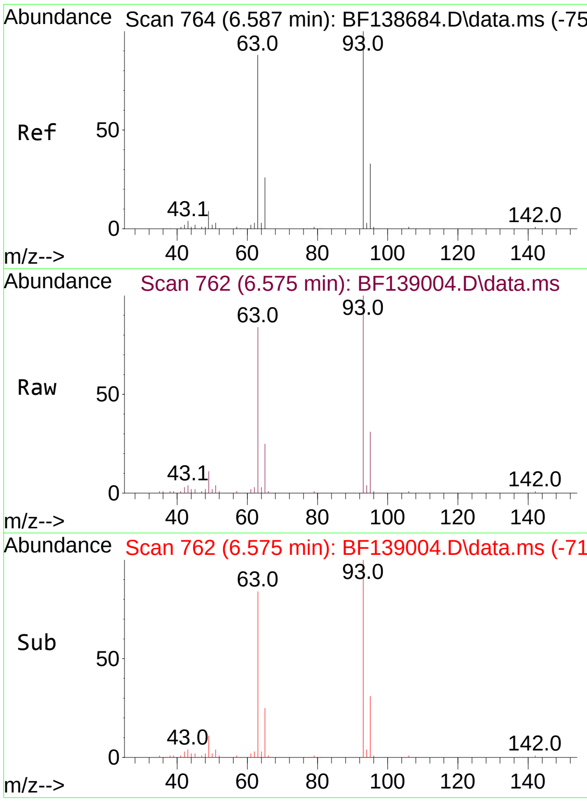
Ion	Ratio	Lower	Upper
94	100		
65	53.1	16.9	56.9
66	90.0	36.5	76.5#



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

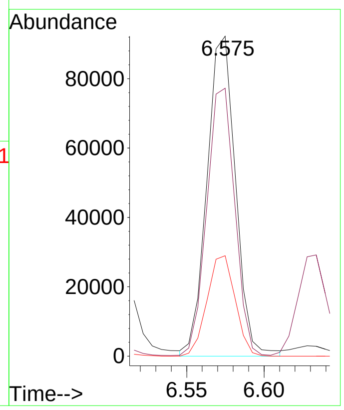
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

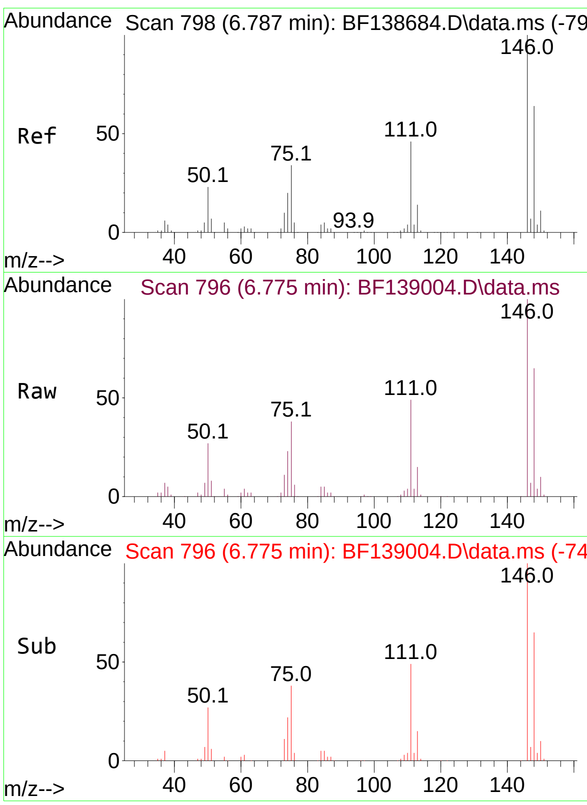


#11
bis(2-Chloroethyl)ether
Concen: 52.462 ng
RT: 6.575 min Scan# 7(
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 93 Resp: 118877

Ion	Ratio	Lower	Upper
93	100		
63	83.7	65.3	105.3
95	31.4	12.4	52.4

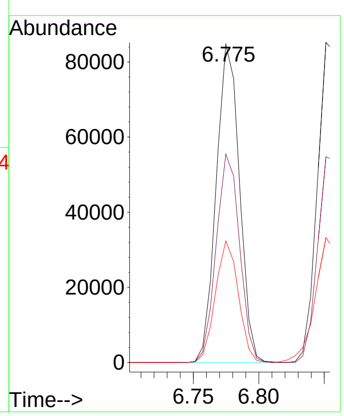




#12
1,3-Dichlorobenzene
Concen: 42.660 ng
RT: 6.775 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:146 Resp: 104654

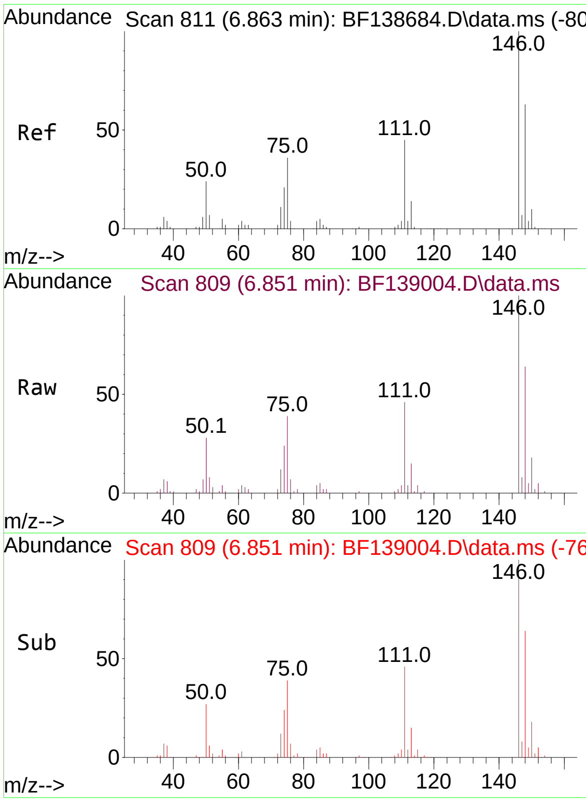
Ion	Ratio	Lower	Upper
146	100		
148	65.4	51.2	76.8
75	38.2	27.4	41.2



Sample Results: **BF139004.D**

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

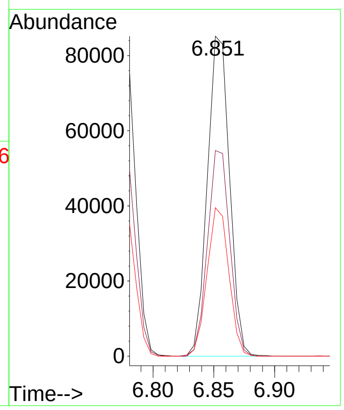
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

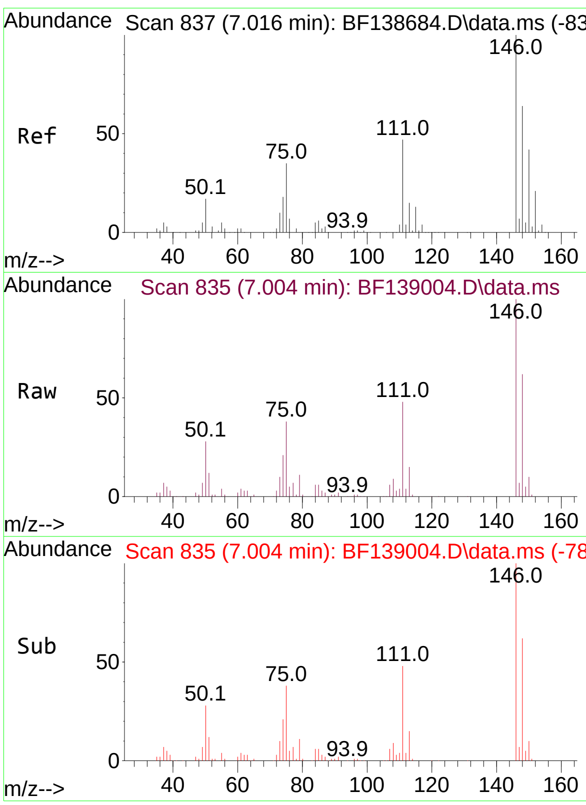


#13
1,4-Dichlorobenzene
Concen: 43.743 ng
RT: 6.851 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:146 Resp: 10829

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.2	75.2
111	46.4	35.9	53.9

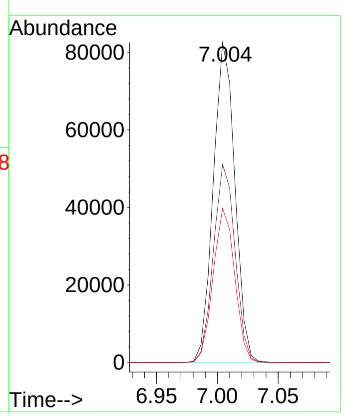


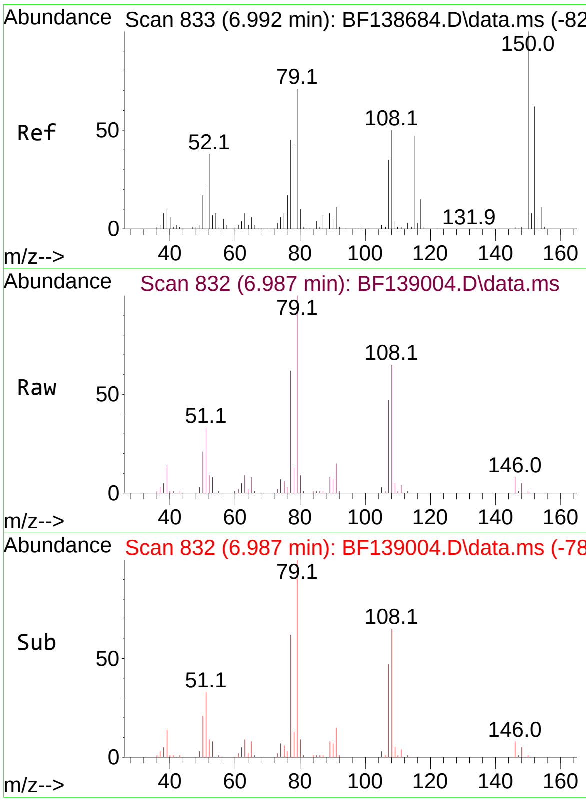


#14
1,2-Dichlorobenzene
Concen: 44.189 ng
RT: 7.004 min Scan# 835
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:146 Resp: 102243

Ion	Ratio	Lower	Upper
146	100		
148	61.8	50.8	76.2
111	48.2	37.4	56.2





#15
Benzyl Alcohol
Concen: 39.613 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

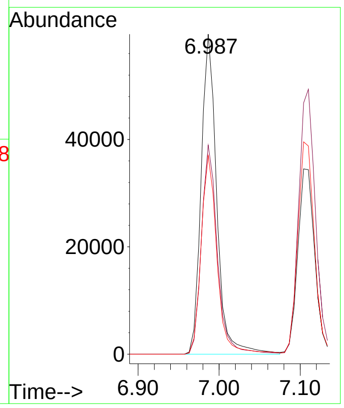
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

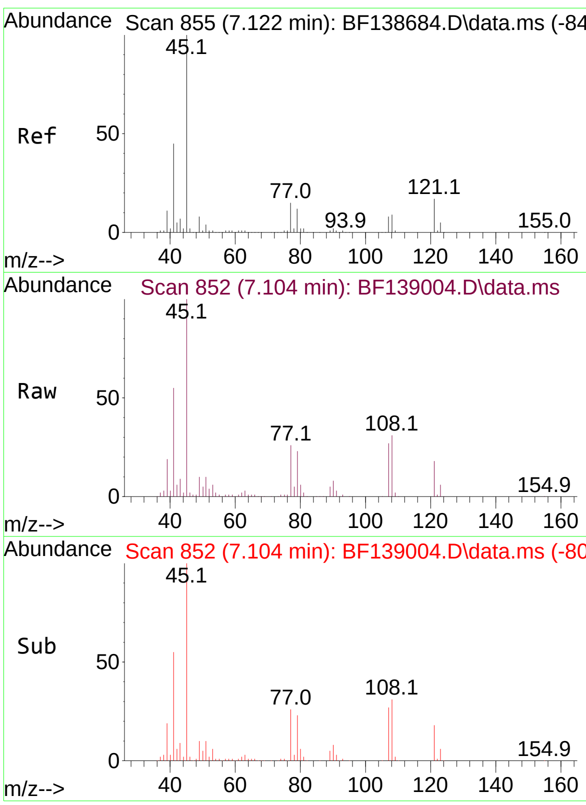
Tgt Ion: 79 Resp: 7984

Ion	Ratio	Lower	Upper
79	100		
108	65.3	56.6	85.0
77	62.1	50.3	75.5

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

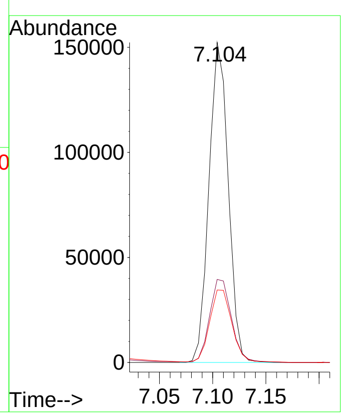




#16
2,2'-oxybis(1-Chloropropane)
Concen: 49.329 ng
RT: 7.104 min Scan# 852
Delta R.T. -0.018 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 45 Resp: 192367

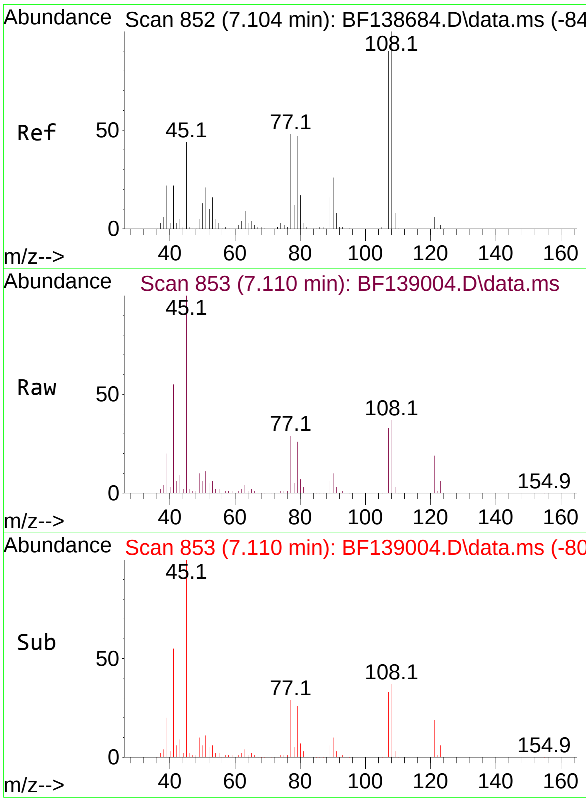
Ion	Ratio	Lower	Upper
45	100		
77	26.0	0.0	34.9
79	22.7	0.0	32.2



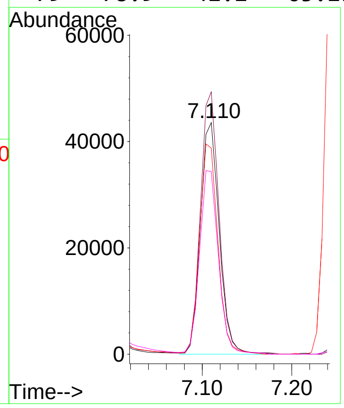
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

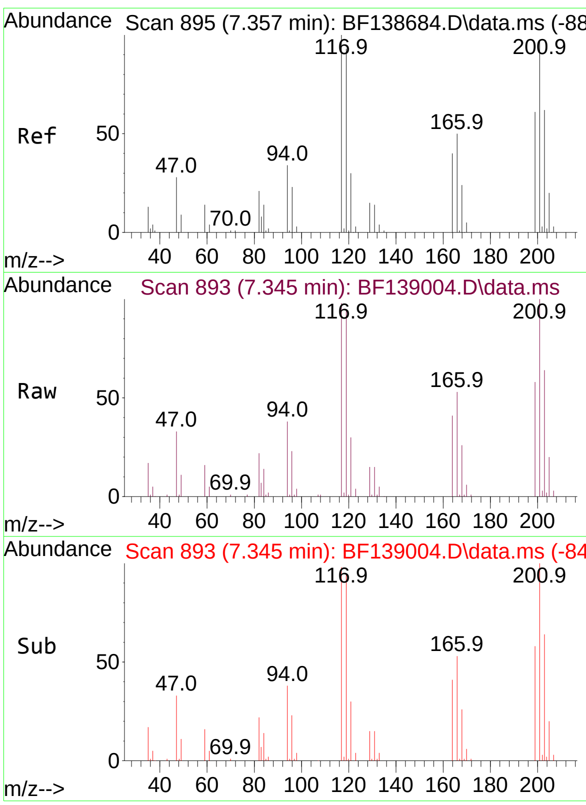
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

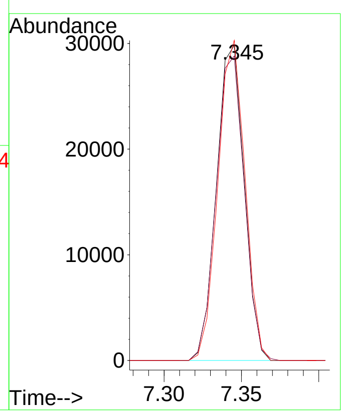


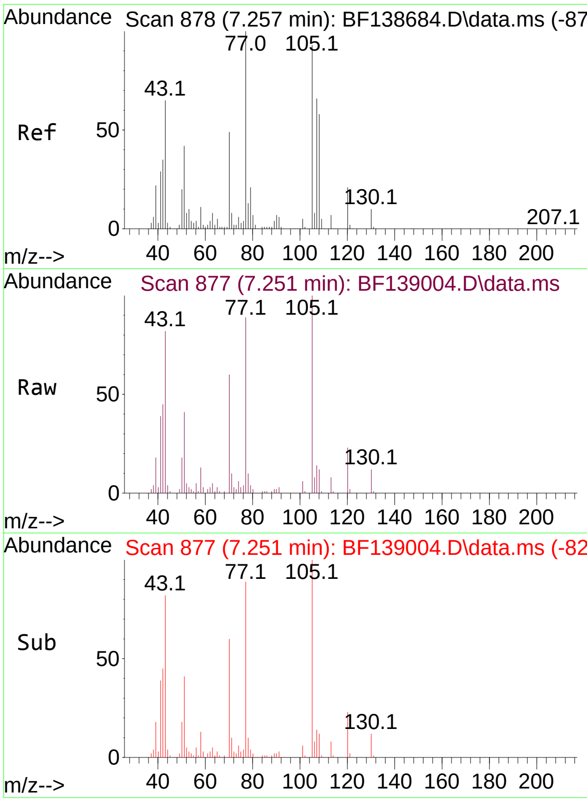

```
#17
2-Methylphenol
Concen:   35.111 ng
RT:    7.110 min   Scan# 8
Delta R.T.   0.006 min
Lab File:    BF139004.D
Acq: 14 Aug 2024   20:16

Tgt Ion:107 Resp:   6354
Ion   Ratio   Lower   Upper
107   100
108   113.3    89.2   133.8
 77    89.0    43.0    64.4#
 79    78.9    42.2    63.2#
```






```
#18
Hexachloroethane
Concen:   39.980 ng
RT:    7.345 min   Scan# 893
Delta R.T.  -0.012 min
Lab File:    BF139004.D
Acq: 14 Aug 2024   20:16

Tgt Ion:117 Resp:   37259
Ion   Ratio   Lower   Upper
117   100
119    96.7    74.6   111.8
201   101.6    77.2   115.8
```

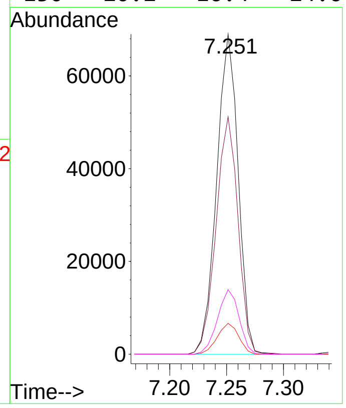




#19
n-Nitroso-di-n-propylamine
Concen: 53.733 ng
RT: 7.251 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

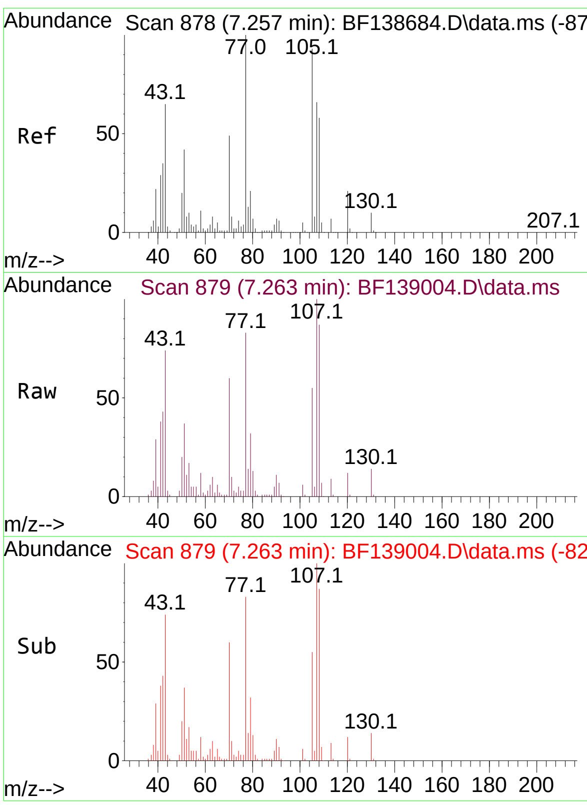
Tgt Ion: 70 Resp: 9076

Ion	Ratio	Lower	Upper
70	100		
42	74.2	57.4	86.0
101	9.6	7.5	11.3
130	20.2	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

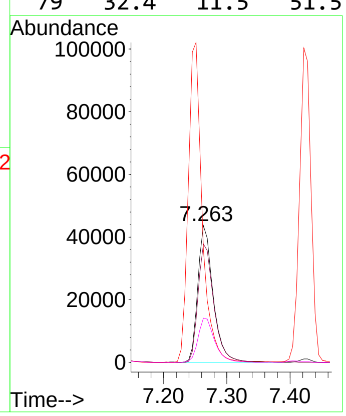
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024



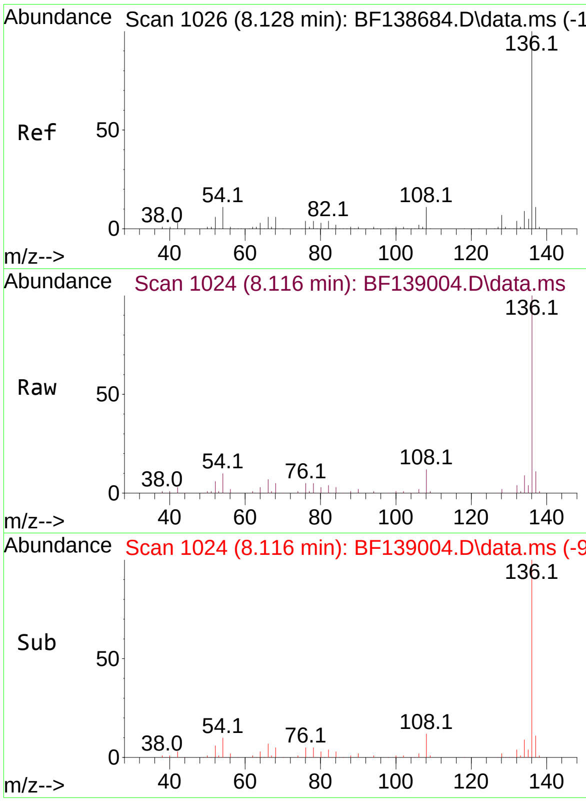
#20
3+4-Methylphenols
Concen: 32.023 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:107 Resp: 74356

Ion	Ratio	Lower	Upper
107	100		
108	86.6	68.2	108.2
77	82.8	132.1	172.1#
79	32.4	11.5	51.5



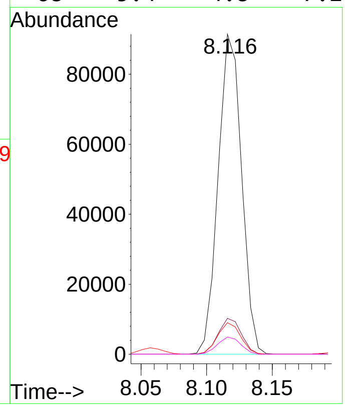
Sample Results: **BF139004.D**



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 10
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:136 Resp: 11351

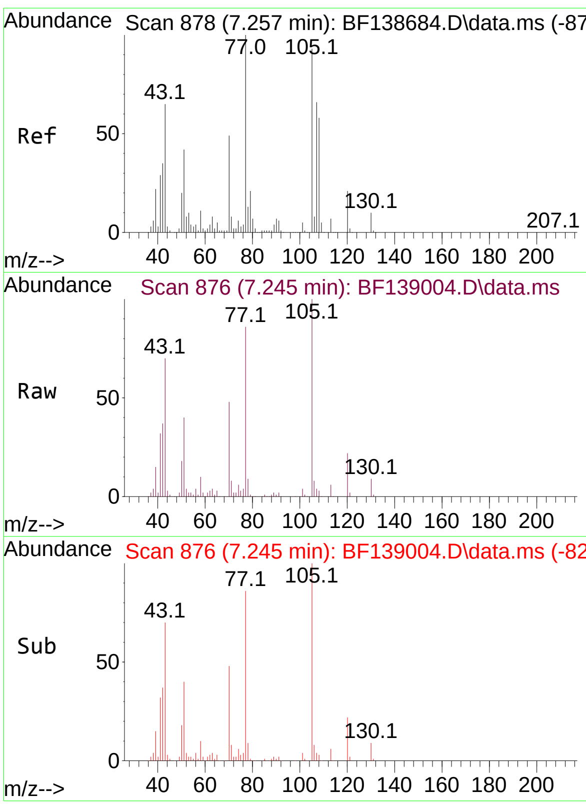
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	9.9	8.6	12.8
68	5.4	4.8	7.2



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

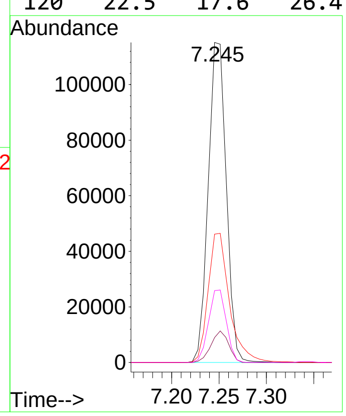
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024



#22
Acetophenone
Concen: 54.705 ng
RT: 7.245 min Scan# 876
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:105 Resp: 152042

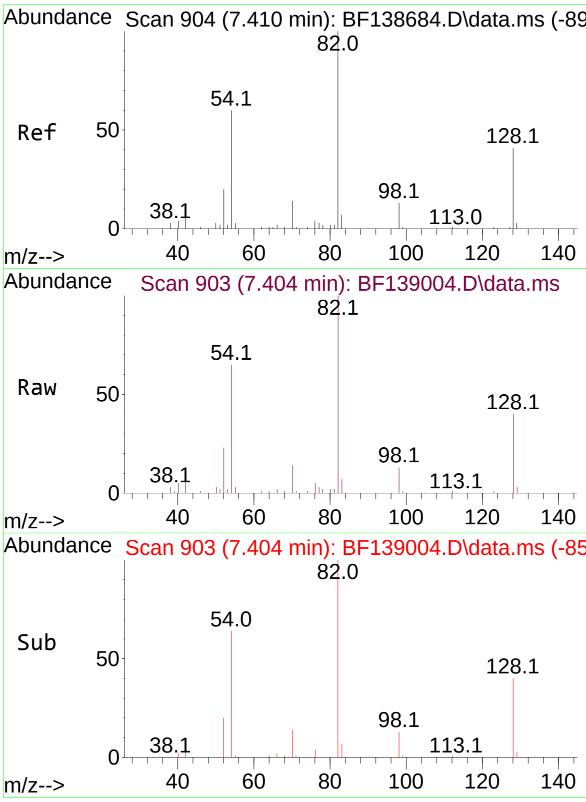
Ion	Ratio	Lower	Upper
105	100		
71	7.8	7.2	10.8
51	40.1	35.9	53.9
120	22.5	17.6	26.4



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

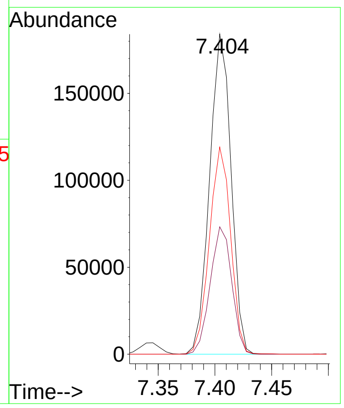
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

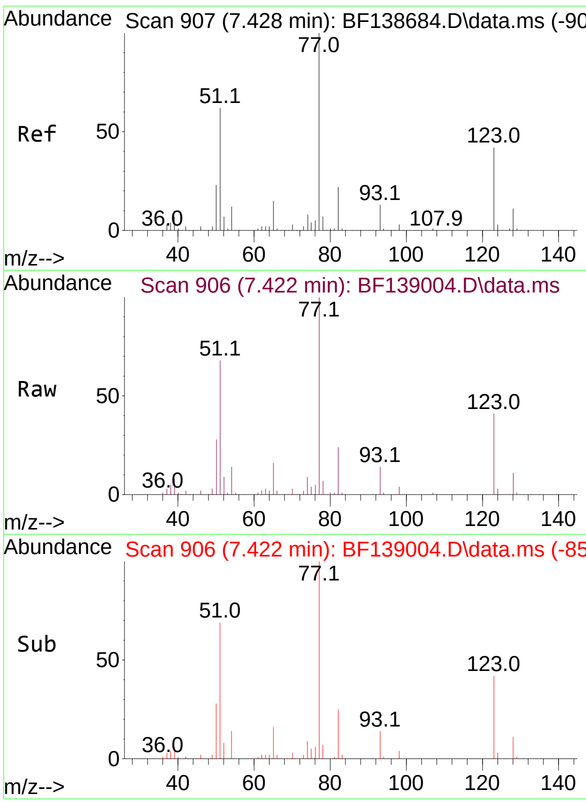


#23
Nitrobenzene-d5
Concen: 104.440 ng
RT: 7.404 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 82 Resp: 24247

Ion	Ratio	Lower	Upper
82	100		
128	39.8	32.8	49.2
54	64.7	48.3	72.5

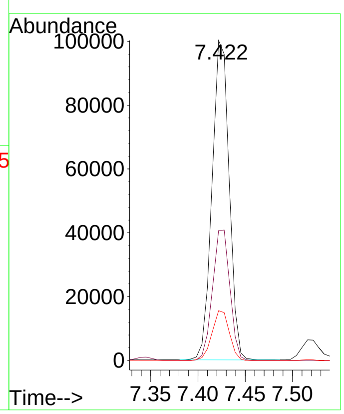




#24
Nitrobenzene
Concen: 53.635 ng
RT: 7.422 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 77 Resp: 126711

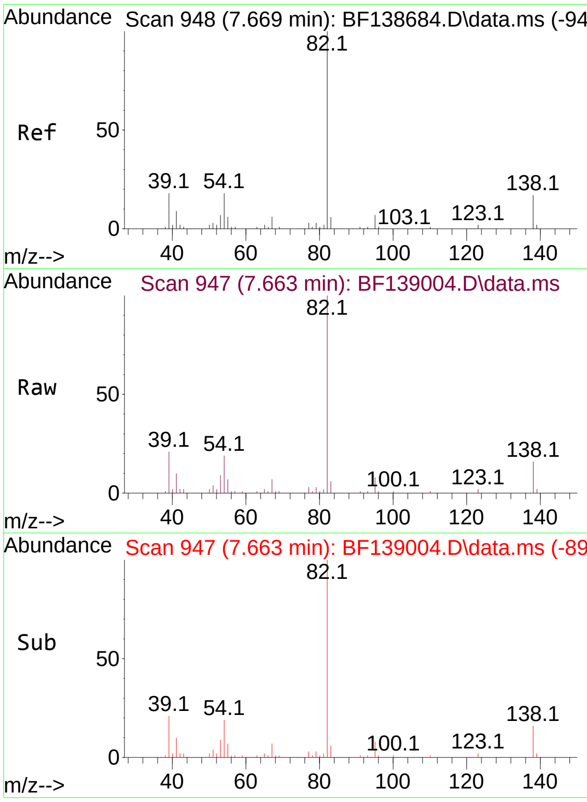
Ion	Ratio	Lower	Upper
77	100		
123	40.6	33.3	49.9
65	15.5	11.9	17.9



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

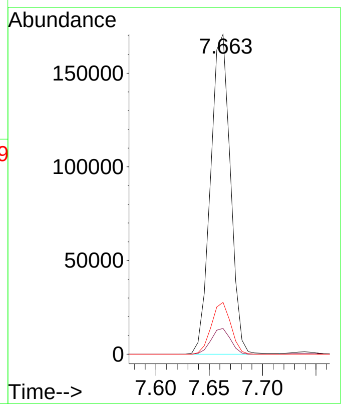
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

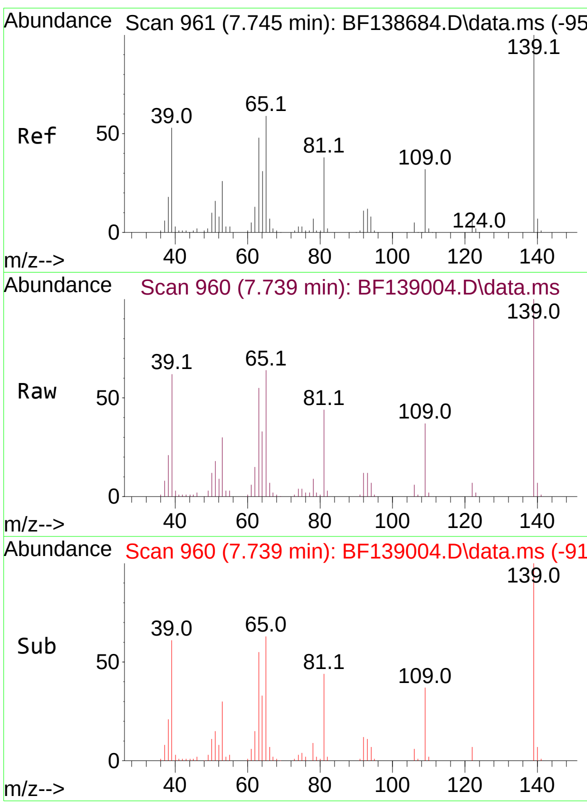


#25
Isophorone
Concen: 55.686 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 82 Resp: 22076

Ion	Ratio	Lower	Upper
82	100		
95	8.1	5.7	8.5
138	16.2	13.7	20.5

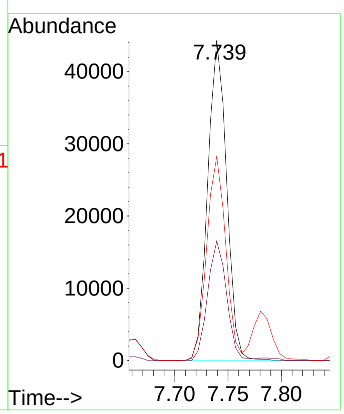




#26
2-Nitrophenol
Concen: 53.741 ng
RT: 7.739 min Scan# 960
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:139 Resp: 54623

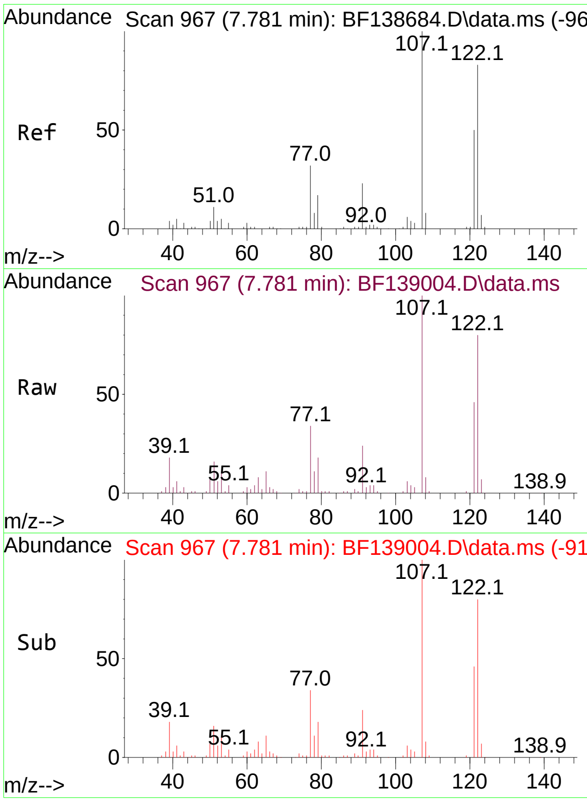
Ion	Ratio	Lower	Upper
139	100		
109	37.3	25.9	38.9
65	63.7	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

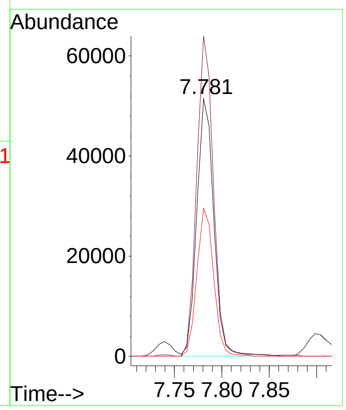
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

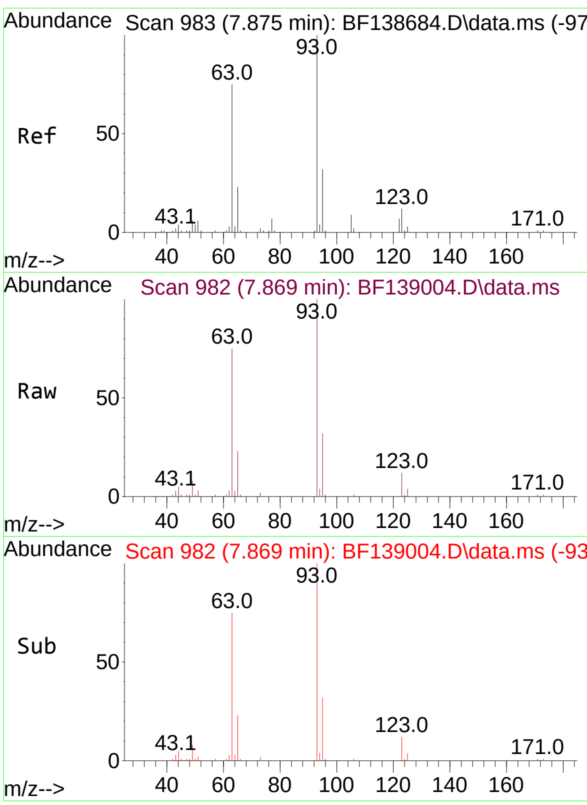


#27
2,4-Dimethylphenol
Concen: 52.910 ng
RT: 7.781 min Scan# 96
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:122 Resp: 6434

Ion	Ratio	Lower	Upper
122	100		
107	124.3	95.0	142.6
121	57.4	47.3	70.9

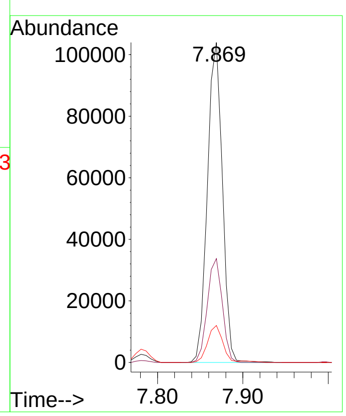




#28
bis(2-Chloroethoxy)methane
Concen: 52.635 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 93 Resp: 127071

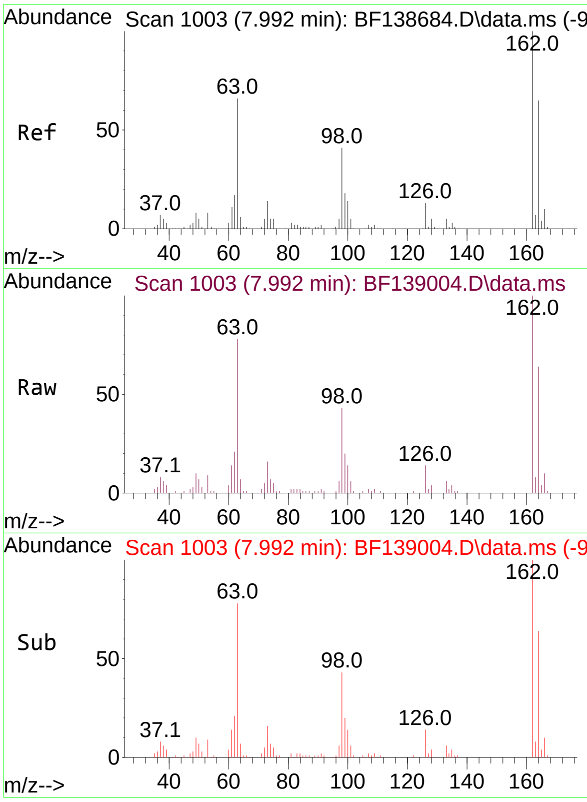
Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.8
123	11.5	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

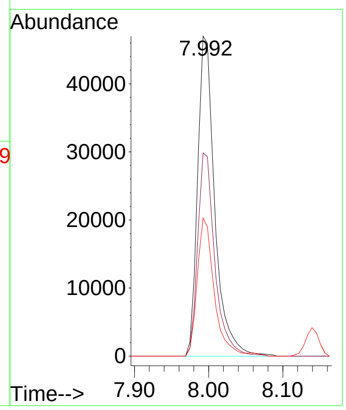
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

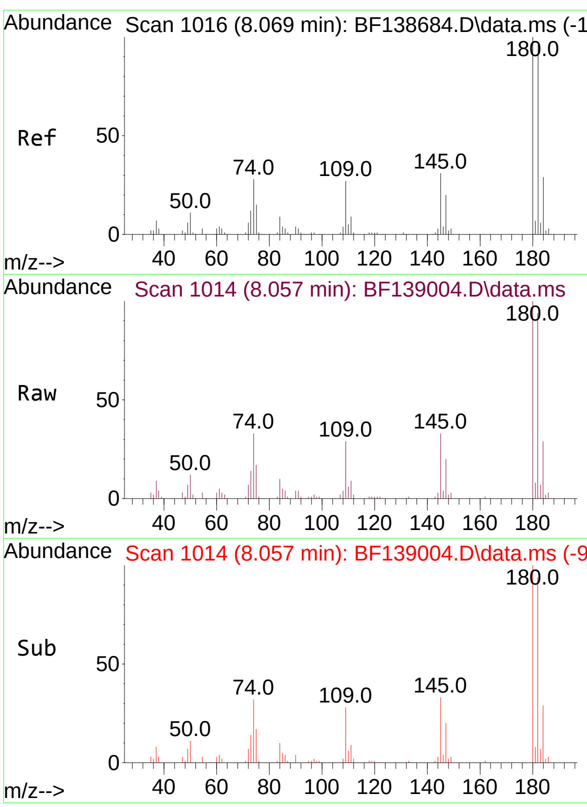


#29
2,4-Dichlorophenol
Concen: 48.511 ng
RT: 7.992 min Scan# 1003
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:162 Resp: 75807

Ion	Ratio	Lower	Upper
162	100		
164	63.6	44.7	84.7
98	43.1	20.8	60.8

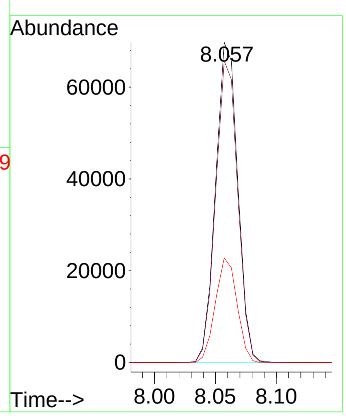




#30
1,2,4-Trichlorobenzene
Concen: 48.920 ng
RT: 8.057 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:180 Resp: 88221

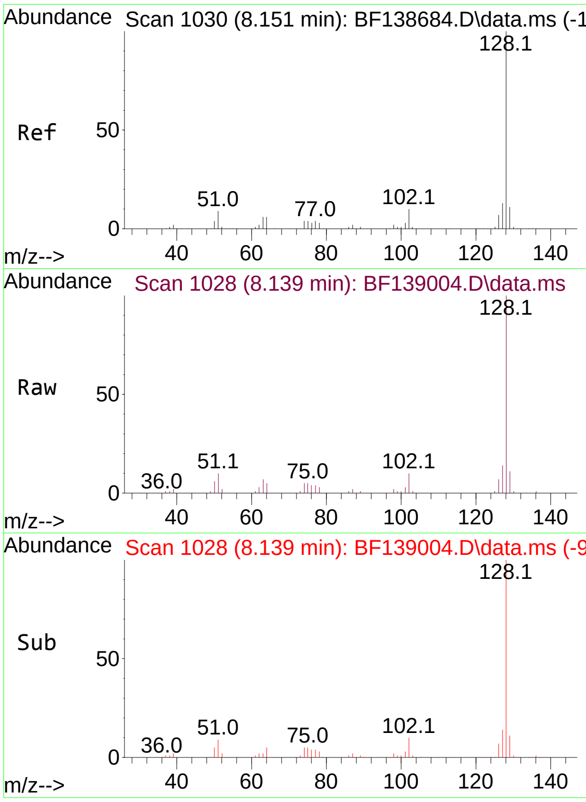
Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.9	115.3
145	32.6	25.0	37.4



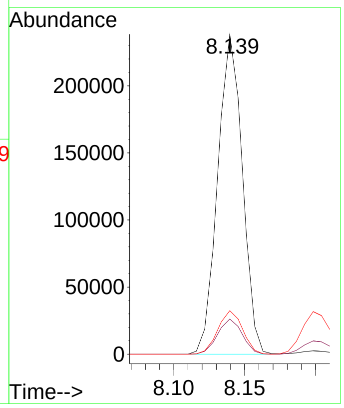
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

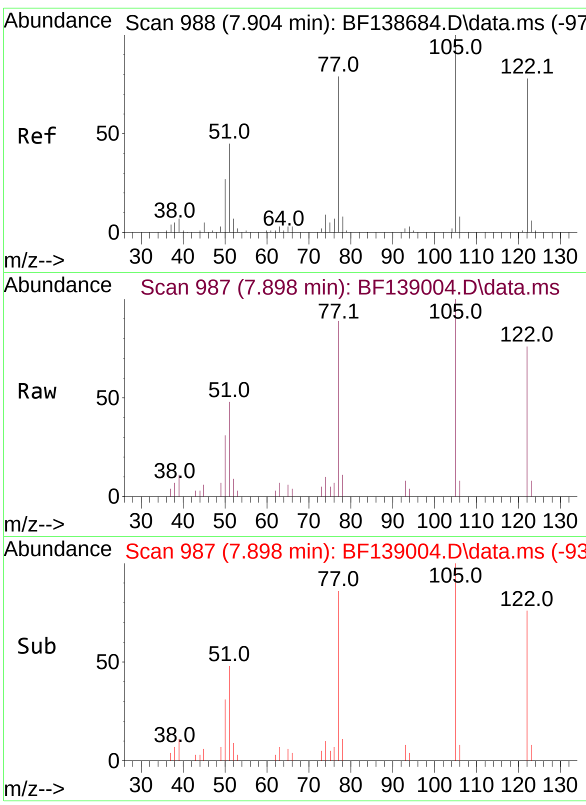
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

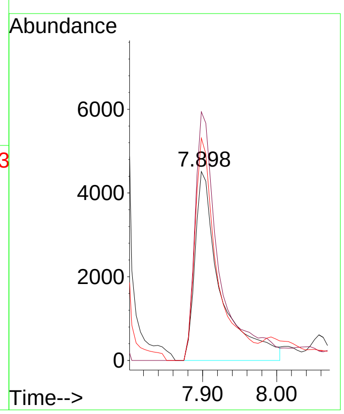



```
#31
Naphthalene
Concen:   48.378 ng
RT:   8.139 min  Scan# 1
Delta R.T.  -0.012 min
Lab File:   BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion:128 Resp:  28904
Ion  Ratio  Lower  Upper
128  100
129   11.0    8.7   13.1
127   13.6   10.6   16.0
```






```
#32
Benzoic acid
Concen:   11.326 ng
RT:   7.898 min  Scan# 987
Delta R.T.  -0.006 min
Lab File:   BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion:122 Resp:   10827
Ion  Ratio  Lower  Upper
122  100
105  131.6  106.7  146.7
 77  117.7   81.1  121.1
```

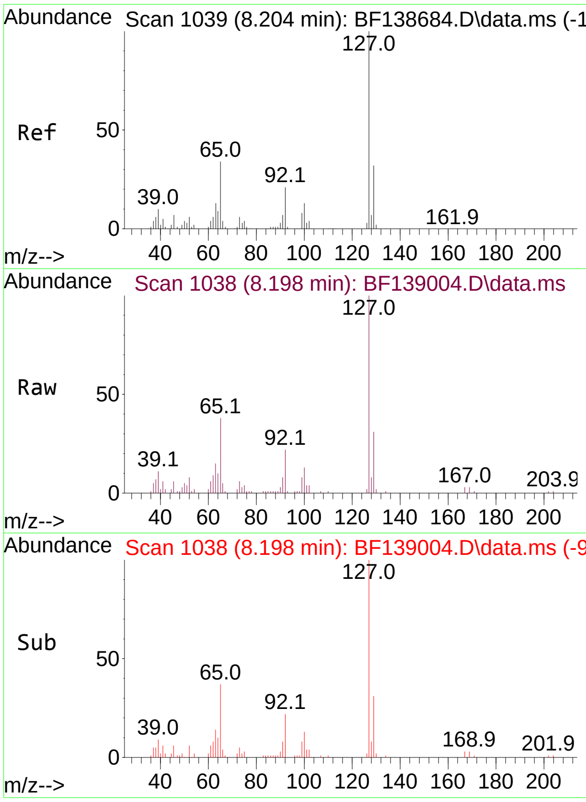


Sample Results: **BF139004.D**

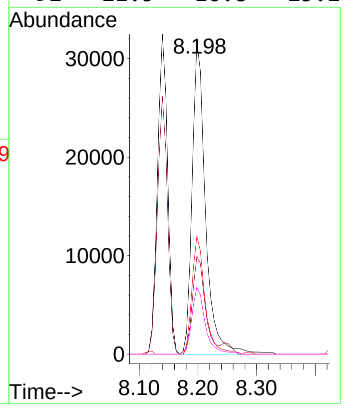
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

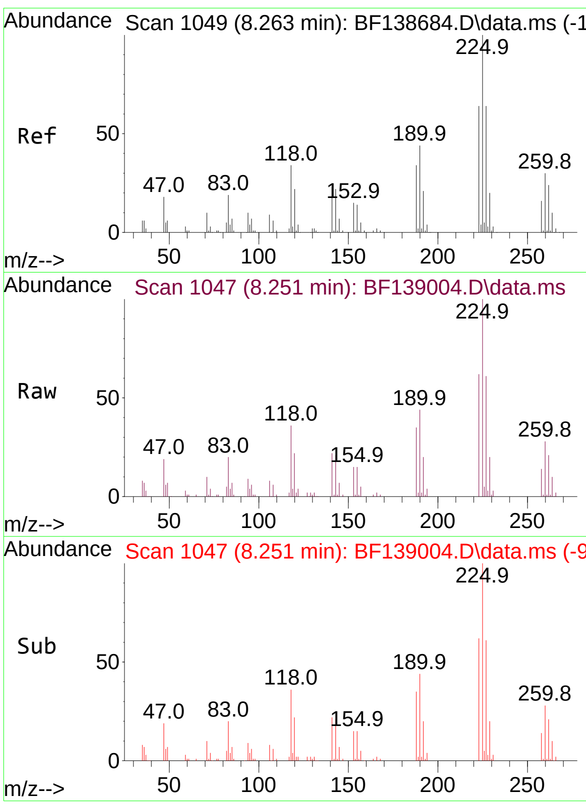
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

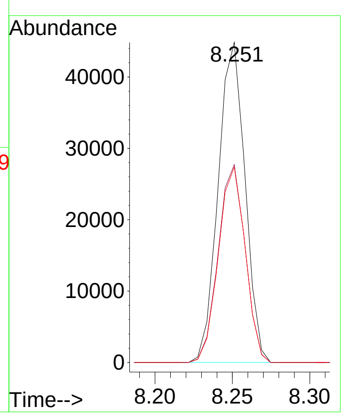



```
#33
4-Chloroaniline
Concen:    24.990 ng
RT:    8.198 min   Scan# 1(
Delta R.T.   -0.006 min
Lab File:    BF139004.D
Acq: 14 Aug 2024   20:16

Tgt Ion:127 Resp:    5012
Ion   Ratio   Lower   Upper
127   100
129    31.5    25.9    38.9
 65    37.9    27.6    41.4
 92    21.5    16.8    25.2
```



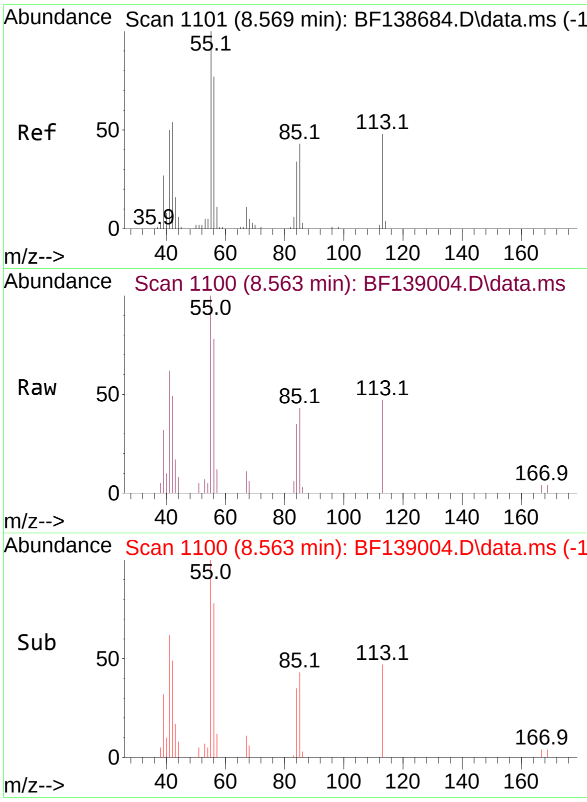



```
#34
Hexachlorobutadiene
Concen:    49.521 ng
RT:    8.251 min   Scan# 1047
Delta R.T.   -0.012 min
Lab File:    BF139004.D
Acq: 14 Aug 2024   20:16

Tgt Ion:225 Resp:    54091
Ion   Ratio   Lower   Upper
225   100
223    61.8    51.2    76.8
227    61.1    51.1    76.7
```

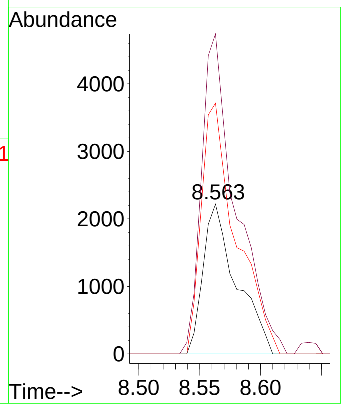


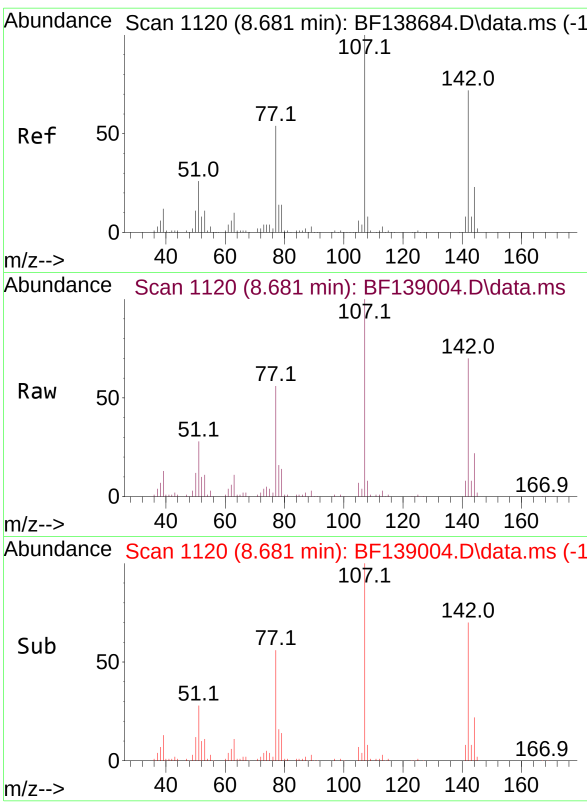
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

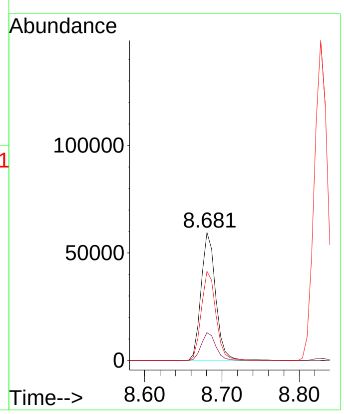



```
#35
Caprolactam
Concen:    9.076 ng
RT:   8.563 min  Scan# 11
Delta R.T.  -0.006 min
Lab File:   BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion:113 Resp:    423
Ion  Ratio  Lower  Upper
113  100
 55  213.6  186.7  226.7
 56  167.4  138.9  178.9
```





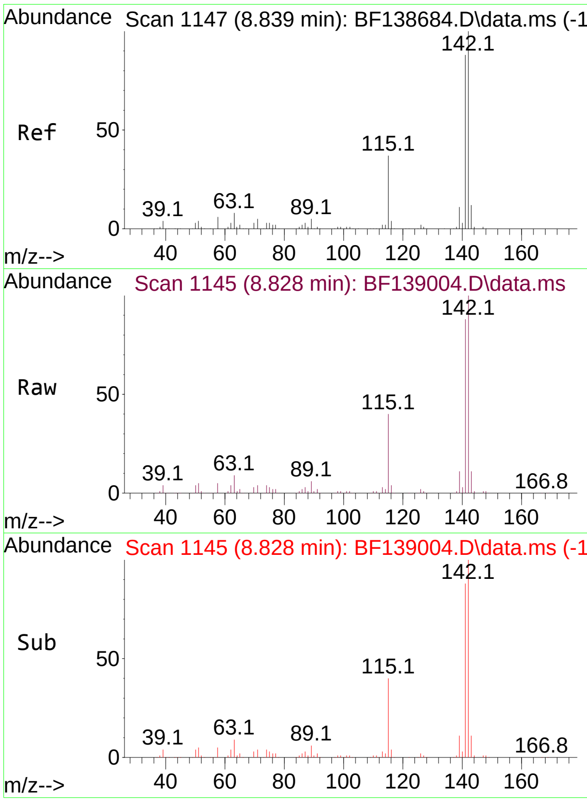

```
#36
4-Chloro-3-methylphenol
Concen:   43.688 ng
RT:   8.681 min  Scan# 1120
Delta R.T.  -0.000 min
Lab File:   BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion:107 Resp:   78022
Ion  Ratio  Lower  Upper
107  100
144   21.7   18.2   27.2
142   69.7   57.4   86.2
```



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

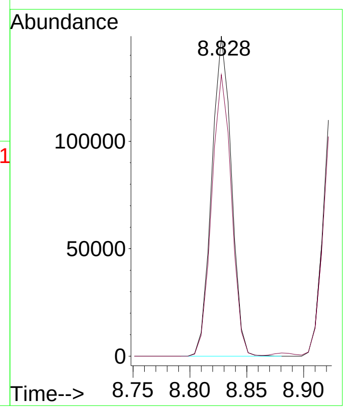
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

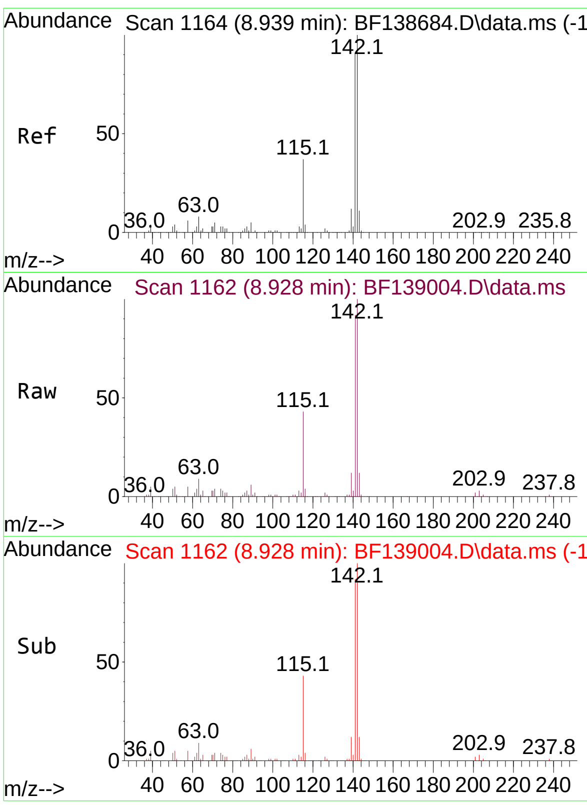


#37
2-Methylnaphthalene
Concen: 47.482 ng
RT: 8.828 min Scan# 1:
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:142 Resp: 17916

Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.8	106.2

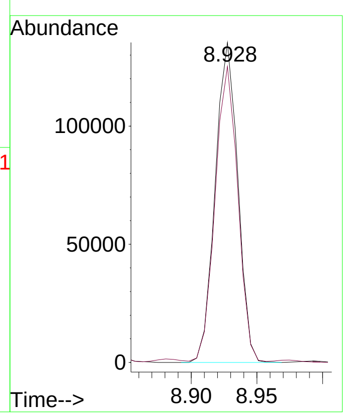




#38
1-Methylnaphthalene
Concen: 43.886 ng
RT: 8.928 min Scan# 1162
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:142 Resp: 162272

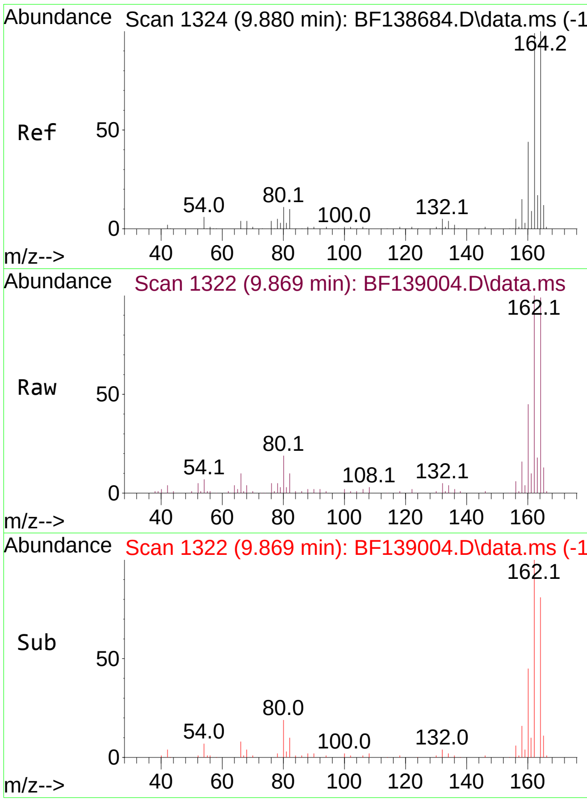
Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.1	109.7



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

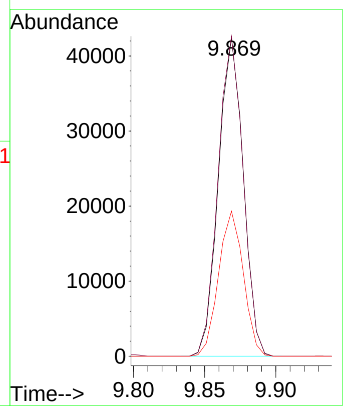
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

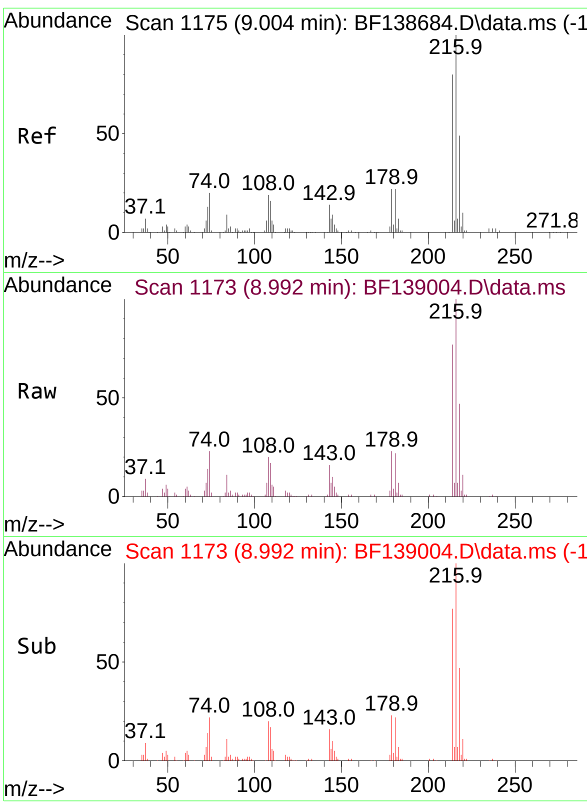


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:164 Resp: 5151

Ion	Ratio	Lower	Upper
164	100		
162	100.5	79.4	119.0
160	45.5	35.1	52.7

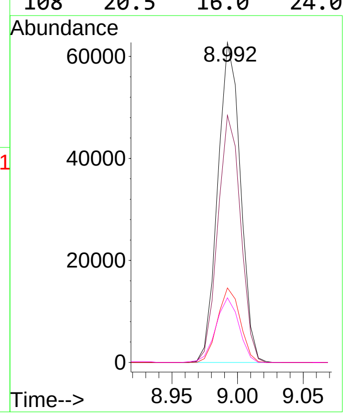




#40
1,2,4,5-Tetrachlorobenzene
Concen: 52.698 ng
RT: 8.992 min Scan# 1173
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:216 Resp: 75412

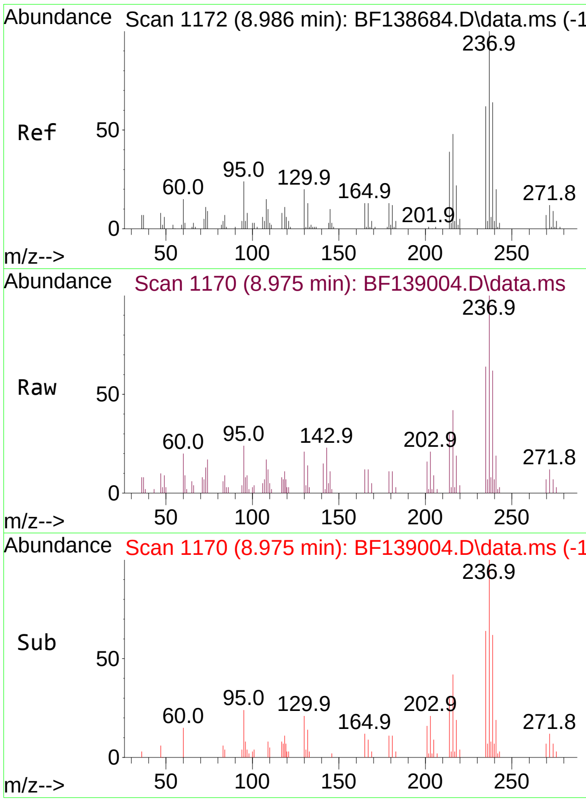
Ion	Ratio	Lower	Upper
216	100		
214	77.4	63.9	95.9
179	23.2	17.8	26.6
108	20.5	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

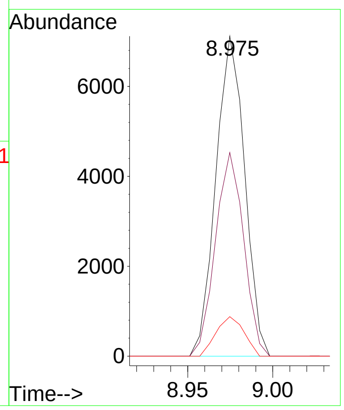
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

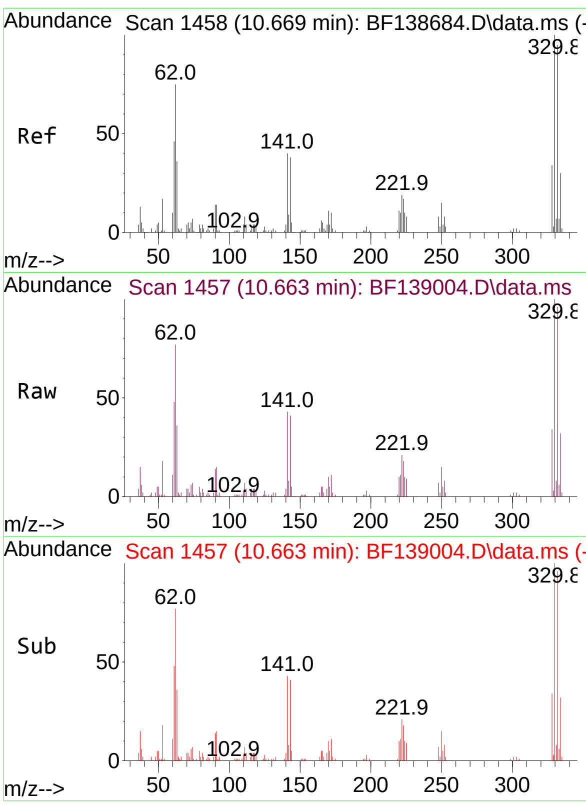


#41
Hexachlorocyclopentadiene
Concen: 27.200 ng
RT: 8.975 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:237 Resp: 839

Ion	Ratio	Lower	Upper
237	100		
235	63.6	41.8	81.8
272	12.4	0.0	32.2

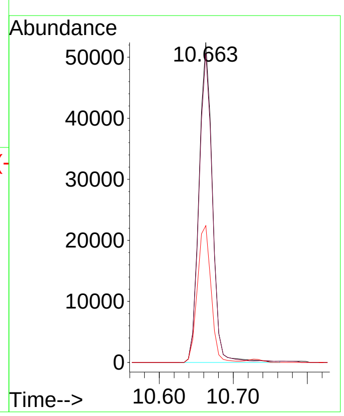




#42
2,4,6-Tribromophenol
Concen: 156.909 ng
RT: 10.663 min Scan# 1457
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:330 Resp: 66212

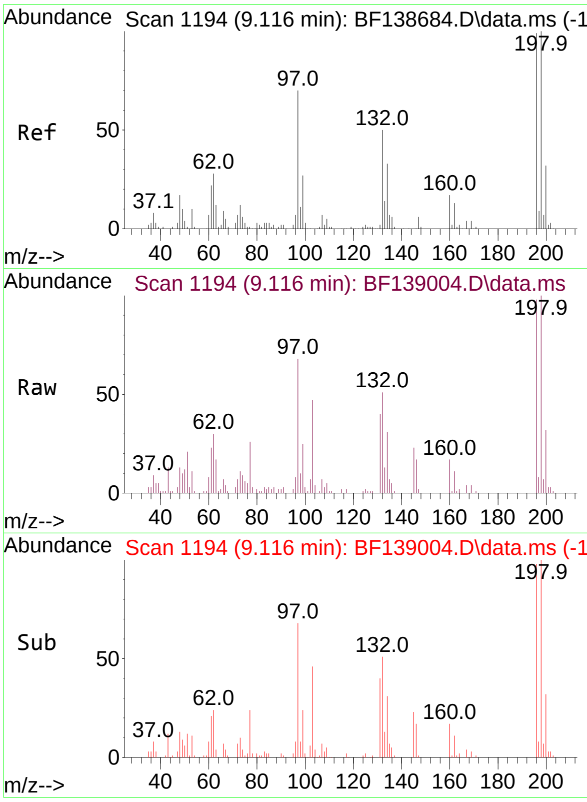
Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.4	114.6
141	43.5	31.1	46.7



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

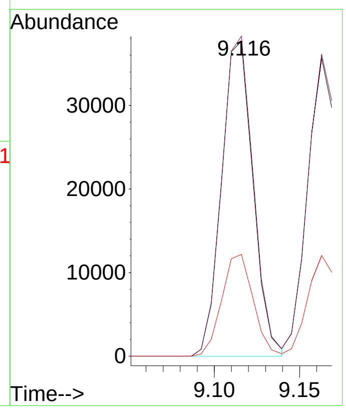
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

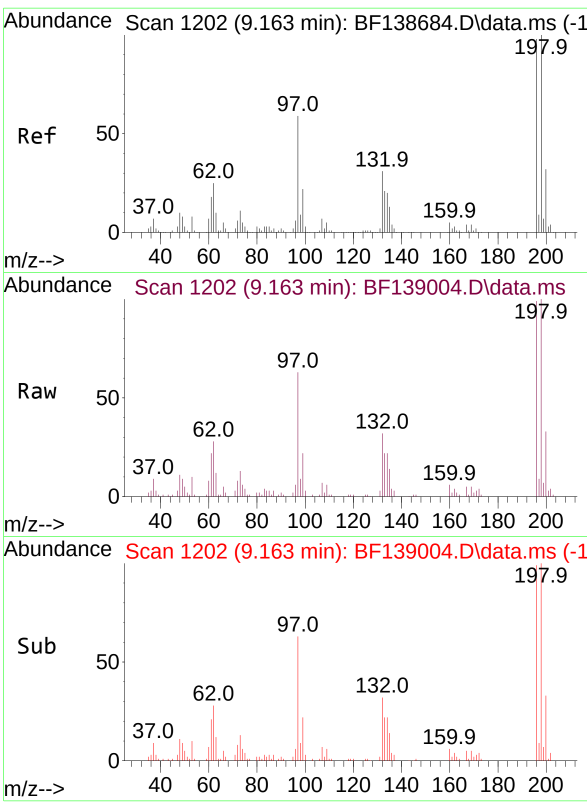


#43
2,4,6-Trichlorophenol
Concen: 55.446 ng
RT: 9.116 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:196 Resp: 4837

Ion	Ratio	Lower	Upper
196	100		
198	101.7	80.5	120.7
200	32.3	25.9	38.9

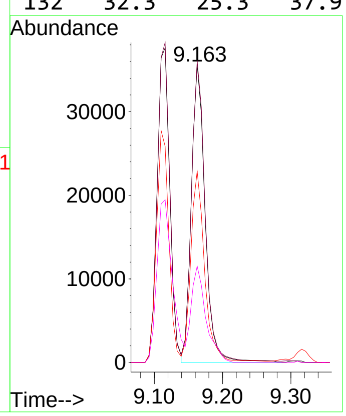




#44
2,4,5-Trichlorophenol
Concen: 52.173 ng
RT: 9.163 min Scan# 1202
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:196 Resp: 49765

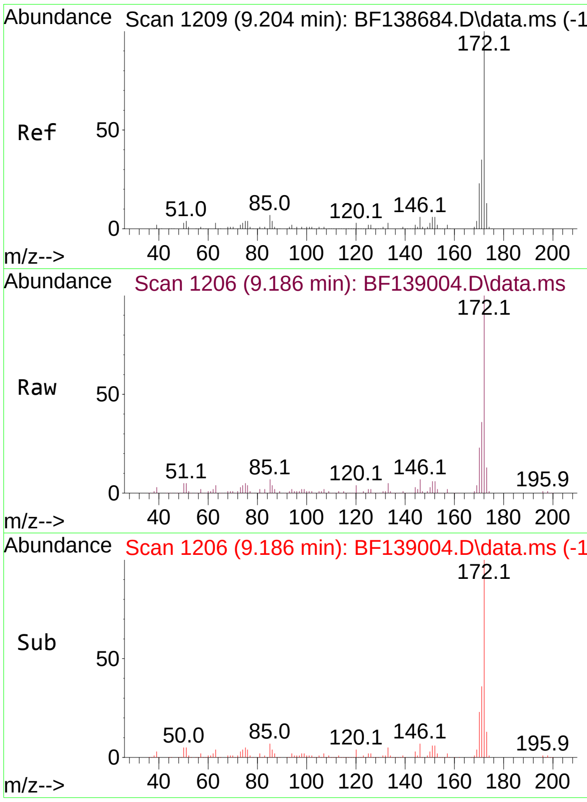
Ion	Ratio	Lower	Upper
196	100		
198	101.3	81.2	121.8
97	64.2	47.8	71.6
132	32.3	25.3	37.9



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

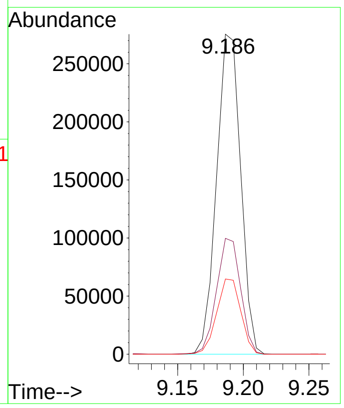
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

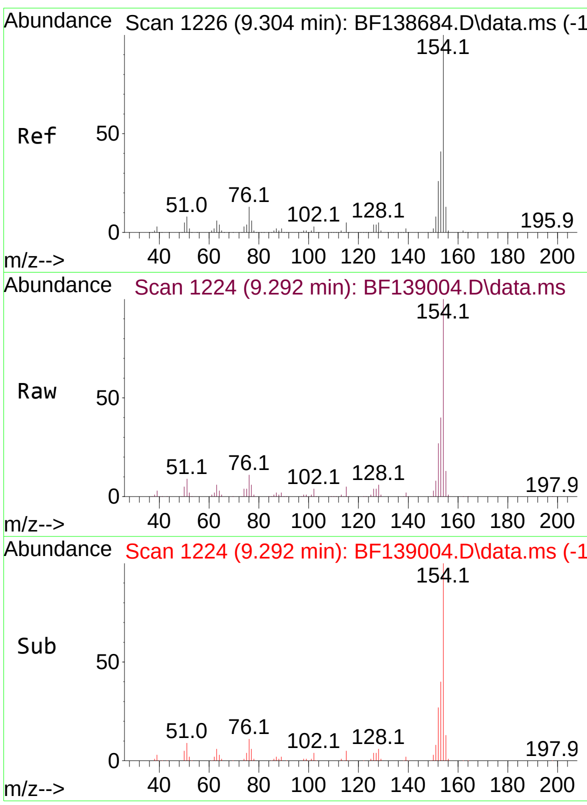


#45
2-Fluorobiphenyl
Concen: 102.583 ng
RT: 9.186 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:172 Resp: 35171

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.3	42.5
170	23.5	18.8	28.2

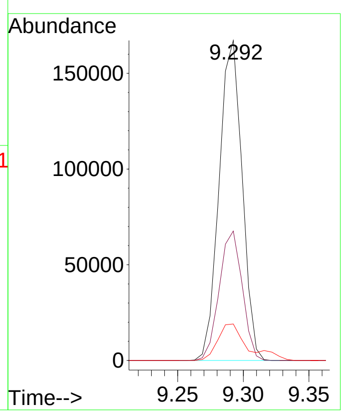




#46
1,1'-Biphenyl
Concen: 50.524 ng
RT: 9.292 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:154 Resp: 203844

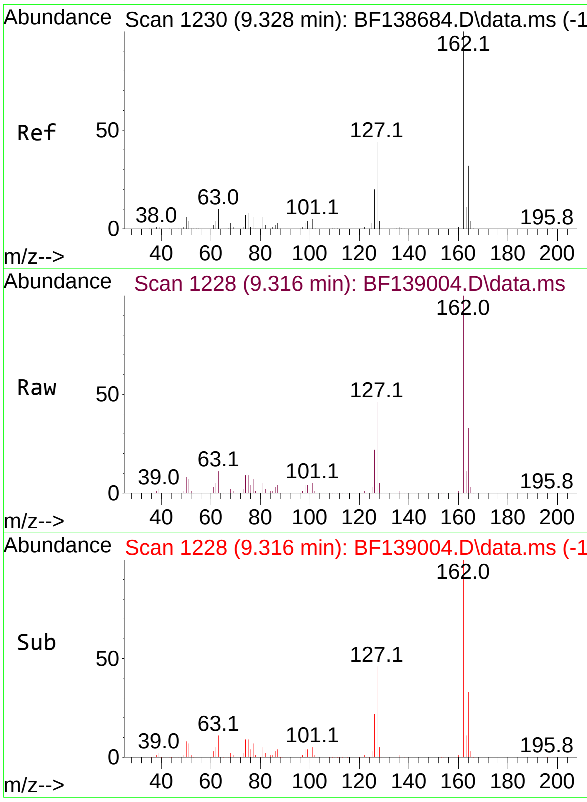
Ion	Ratio	Lower	Upper
154	100		
153	40.5	20.8	60.8
76	11.4	0.0	32.8



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

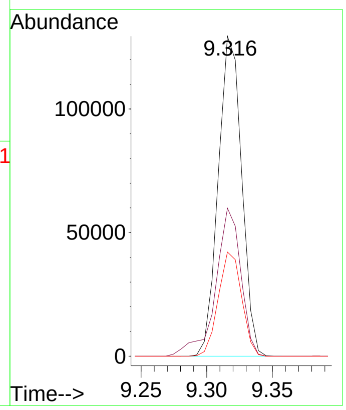
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

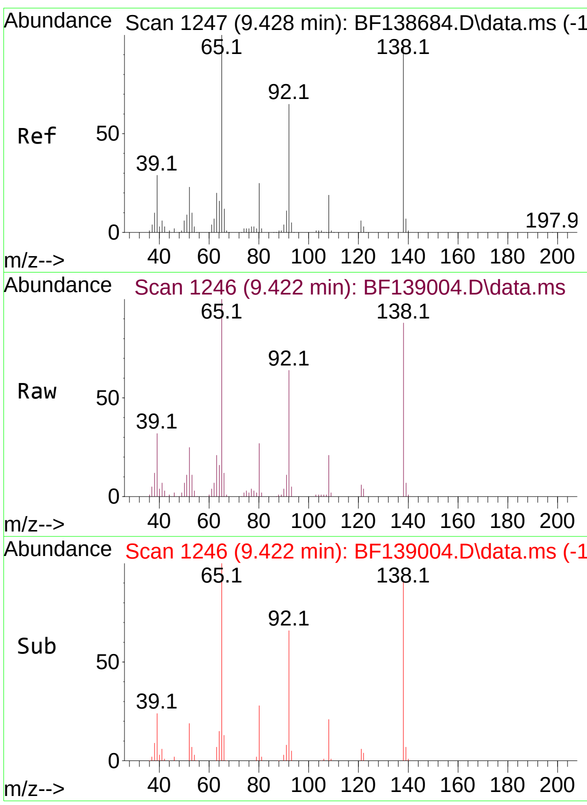


#47
2-Chloronaphthalene
Concen: 53.590 ng
RT: 9.316 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:162 Resp: 16080

Ion	Ratio	Lower	Upper
162	100		
127	46.3	35.4	53.2
164	32.6	25.6	38.4

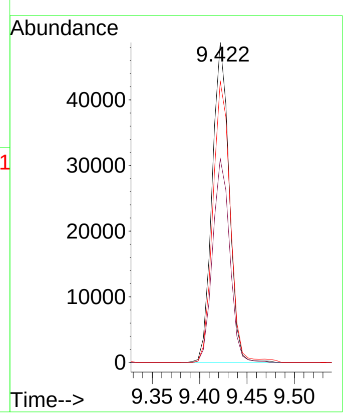


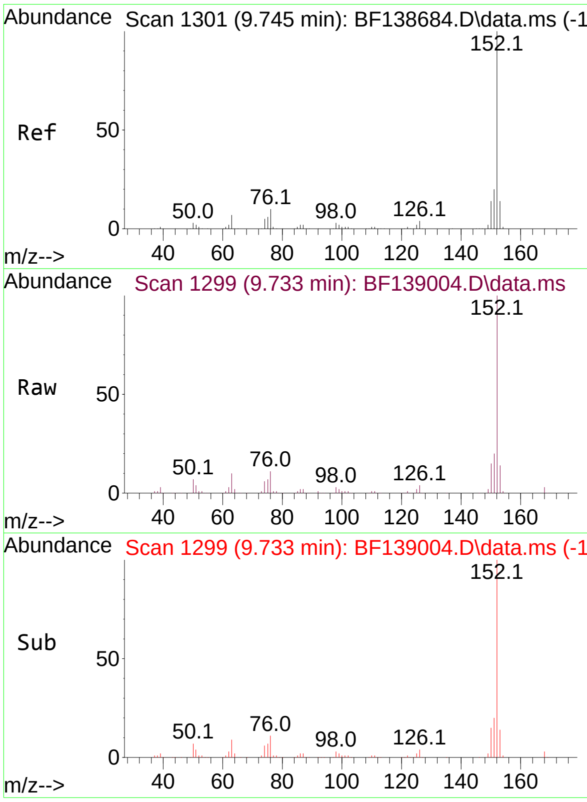


#48
2-Nitroaniline
Concen: 59.416 ng
RT: 9.422 min Scan# 1246
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 65 Resp: 60441

Ion	Ratio	Lower	Upper
65	100		
92	63.7	52.0	78.0
138	87.8	76.2	114.4





#49
Acenaphthylene
Concen: 56.442 ng
RT: 9.733 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

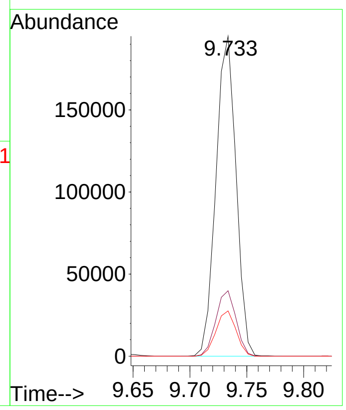
Tgt Ion:152 Resp: 24020

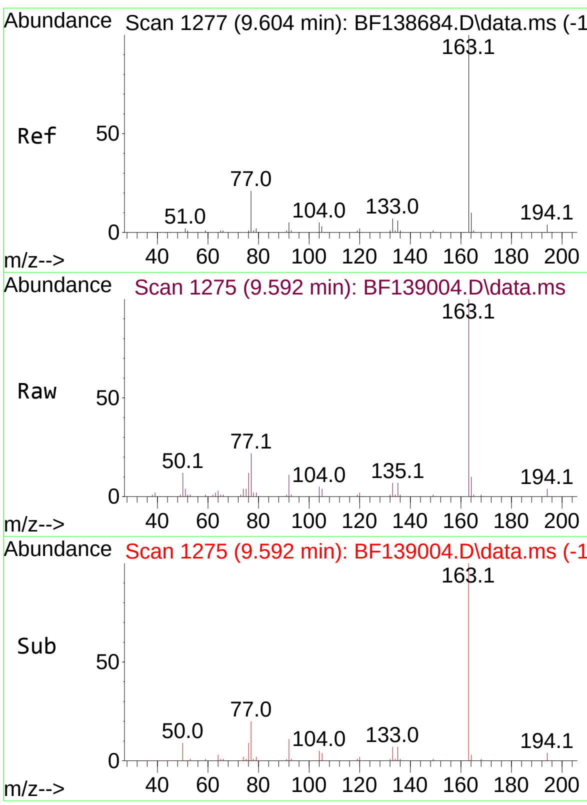
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.0	24.0
153	14.1	11.0	16.4

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

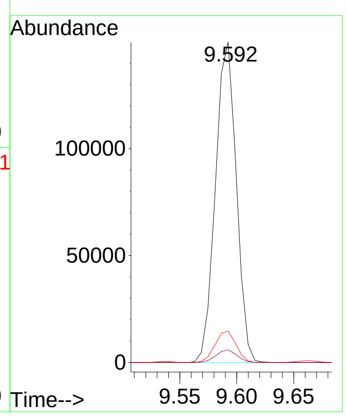


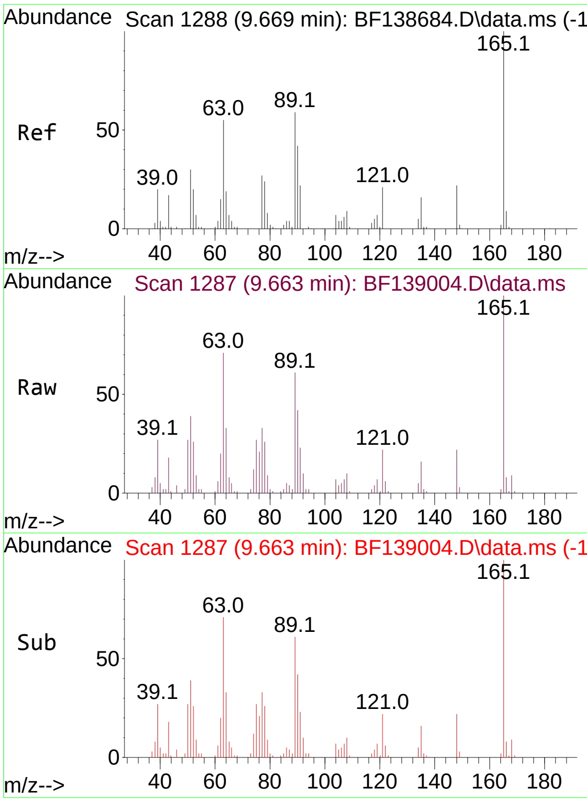


#50
Dimethylphthalate
Concen: 58.201 ng
RT: 9.592 min Scan# 1275
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:163 Resp: 191710

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	9.8	7.8	11.8

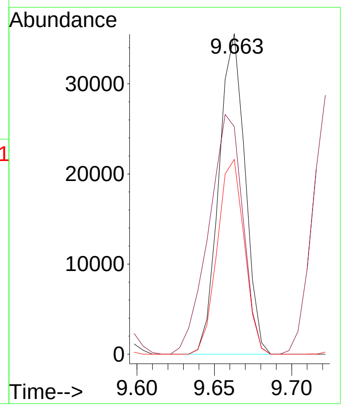




#51
2,6-Dinitrotoluene
Concen: 56.199 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:165 Resp: 4177

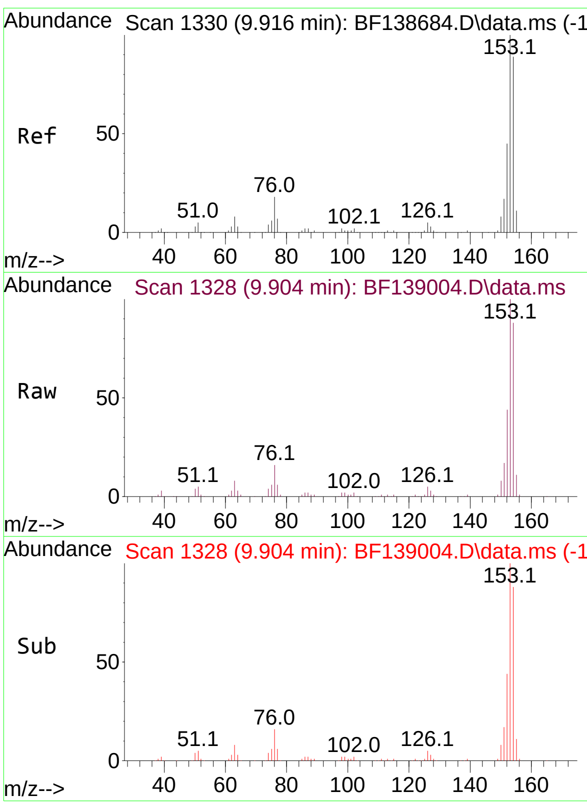
Ion	Ratio	Lower	Upper
165	100		
63	71.1	52.0	78.0
89	60.8	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

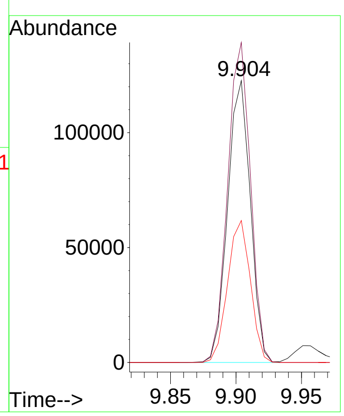
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

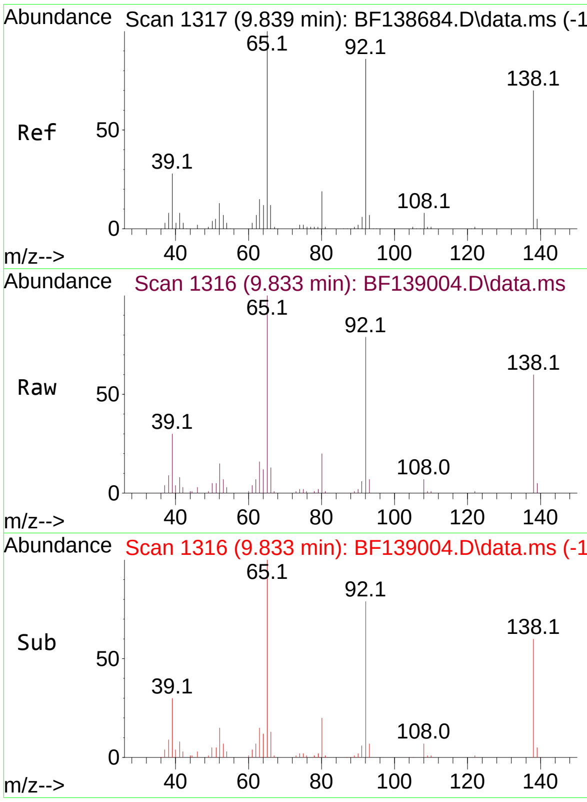


#52
Acenaphthene
Concen: 51.819 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:154 Resp: 148246

Ion	Ratio	Lower	Upper
154	100		
153	113.6	89.9	134.9
152	50.4	40.6	60.8





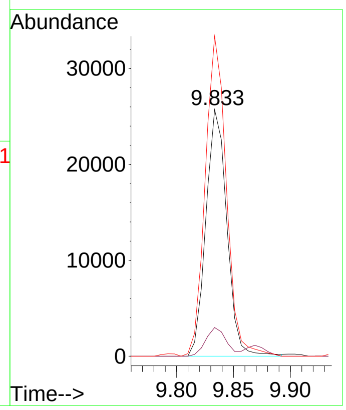
#53
3-Nitroaniline
Concen: 42.929 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

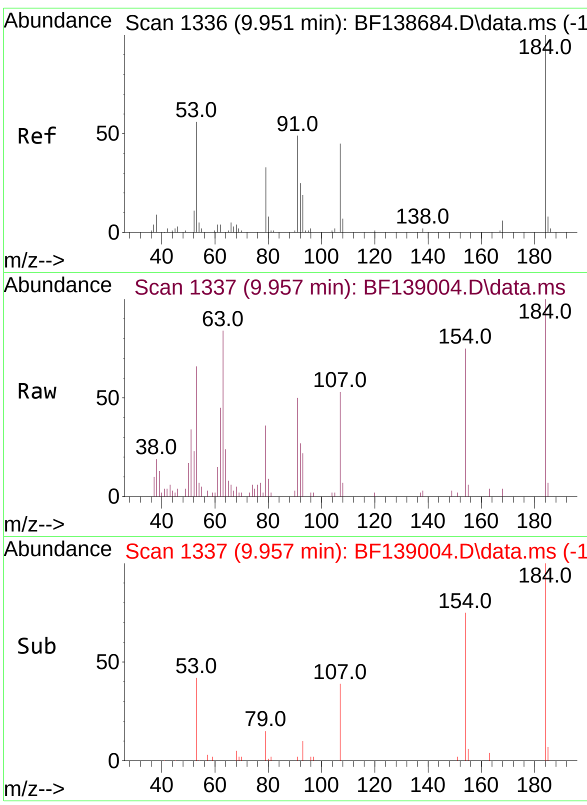
Tgt Ion:138 Resp: 3299

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.1	13.7
92	129.8	98.7	148.1

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

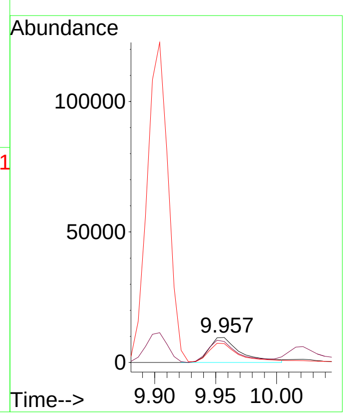


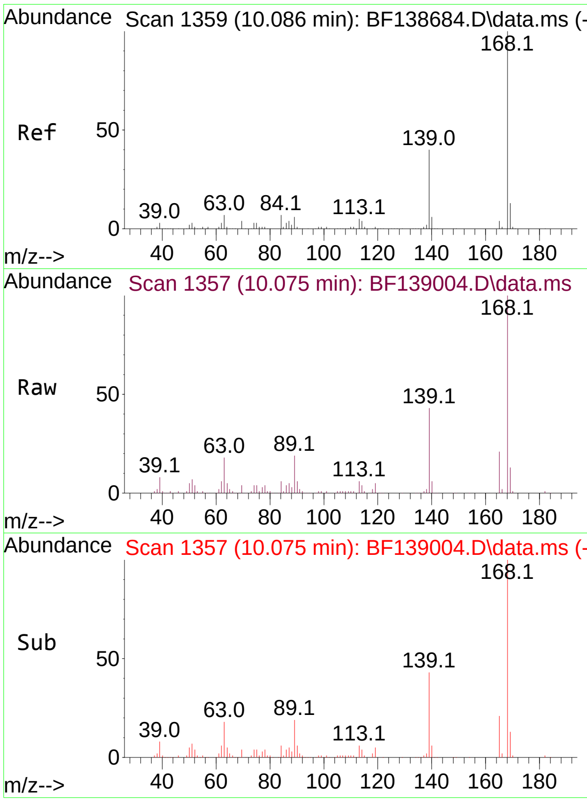


#54
2,4-Dinitrophenol
Concen: 49.912 ng
RT: 9.957 min Scan# 1337
Delta R.T. 0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:184 Resp: 17080

Ion	Ratio	Lower	Upper
184	100		
63	83.9	57.5	86.3
154	75.3	51.7	77.5





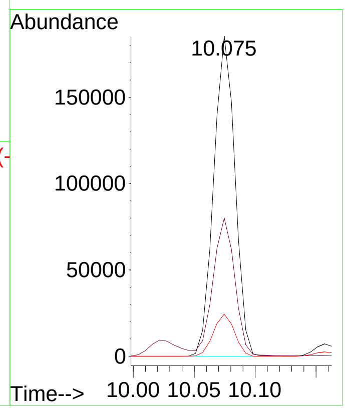
#55
Dibenzofuran
Concen: 55.458 ng
RT: 10.075 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

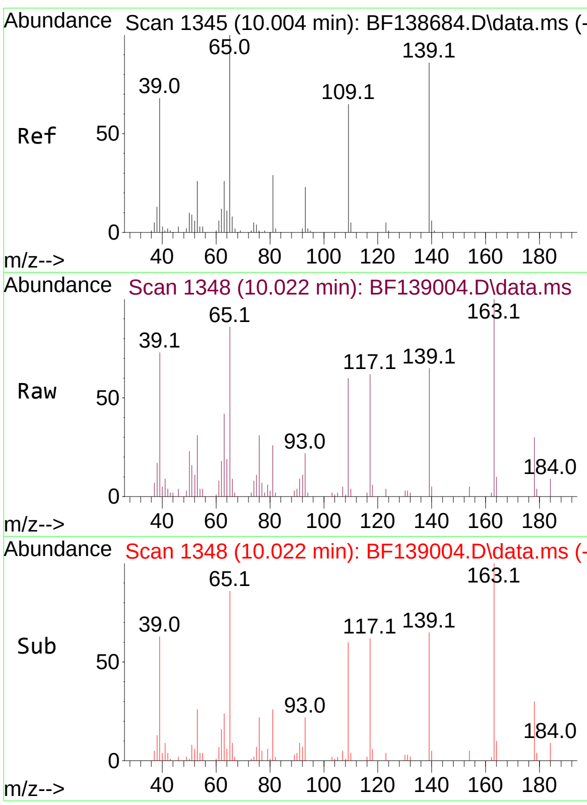
Tgt Ion:168 Resp: 22396

Ion	Ratio	Lower	Upper
168	100		
139	43.2	32.6	49.0
169	13.1	10.7	16.1

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

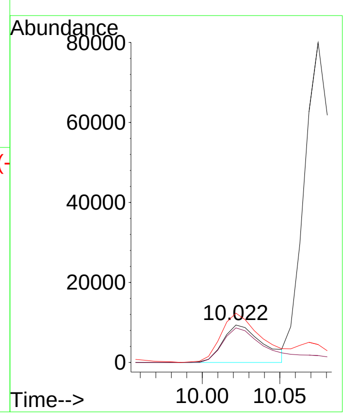


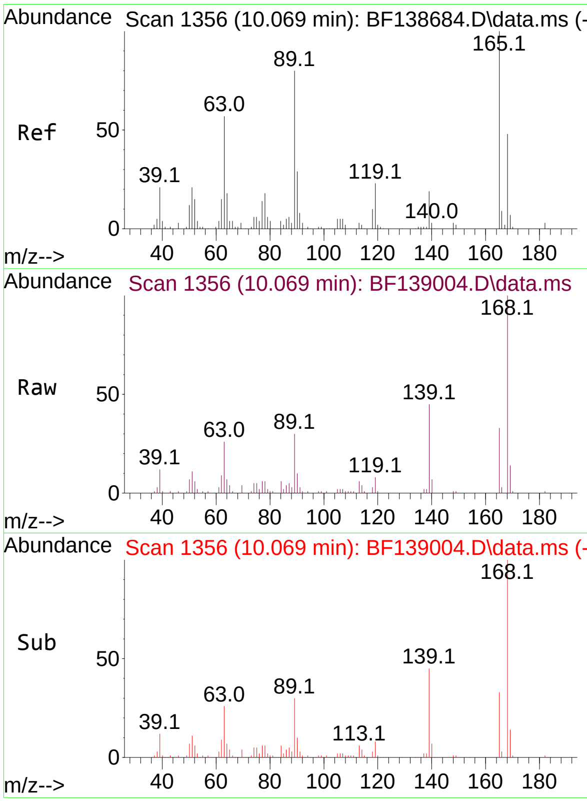


#56
4-Nitrophenol
Concen: 35.942 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.018 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

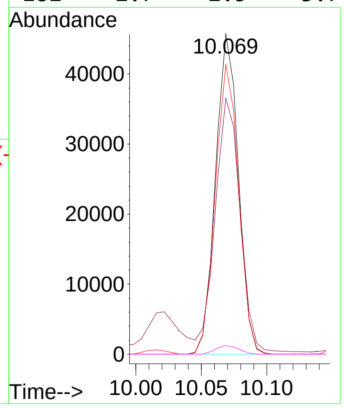
Tgt Ion:139 Resp: 16610

Ion	Ratio	Lower	Upper
139	100		
109	92.4	55.5	95.5
65	131.8	96.7	136.7





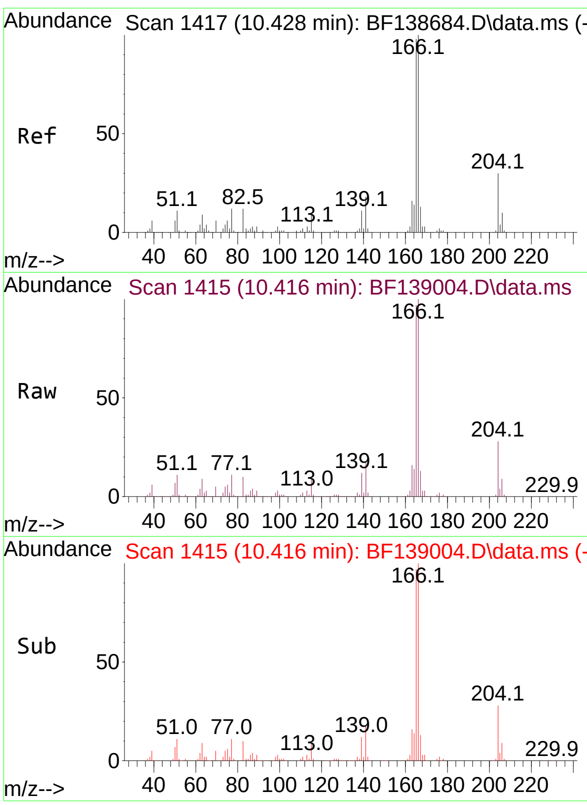

```
#57
2,4-Dinitrotoluene
Concen:   58.431 ng
RT:  10.069 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion:165 Resp:   5541
Ion  Ratio  Lower  Upper
165  100
 63   80.0   46.3   69.5
 89   90.4   64.2   96.4
182    2.7    2.5    3.7
```



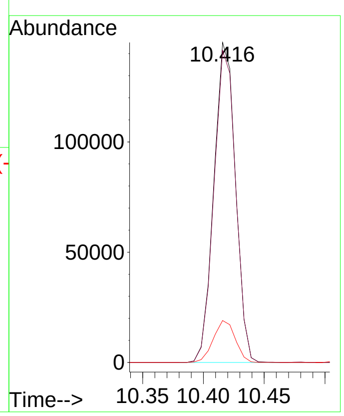
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

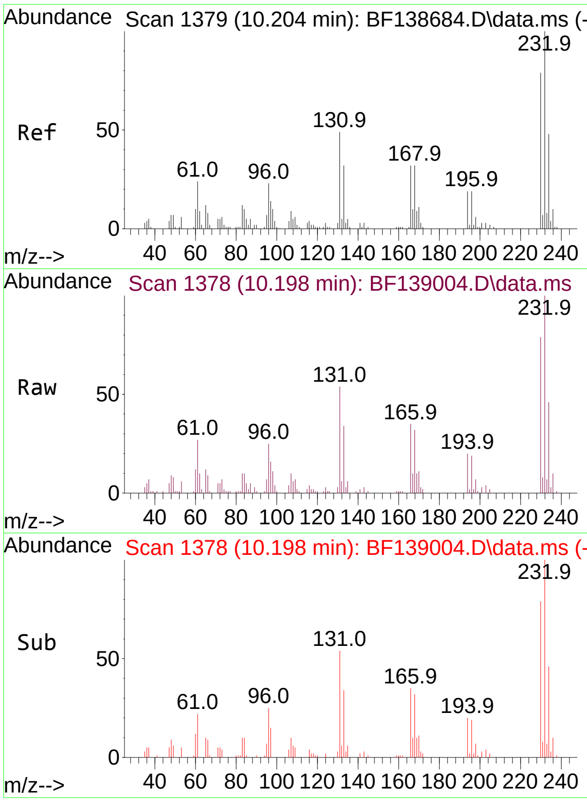



```
#58
Fluorene
Concen:   55.844 ng
RT:  10.416 min  Scan# 1415
Delta R.T.  -0.012 min
Lab File:   BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion:166 Resp:  179589
Ion  Ratio  Lower  Upper
166  100
165   97.5   78.4  117.6
167   13.1   10.6   16.0
```



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

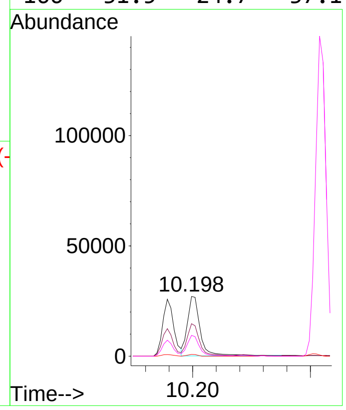
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

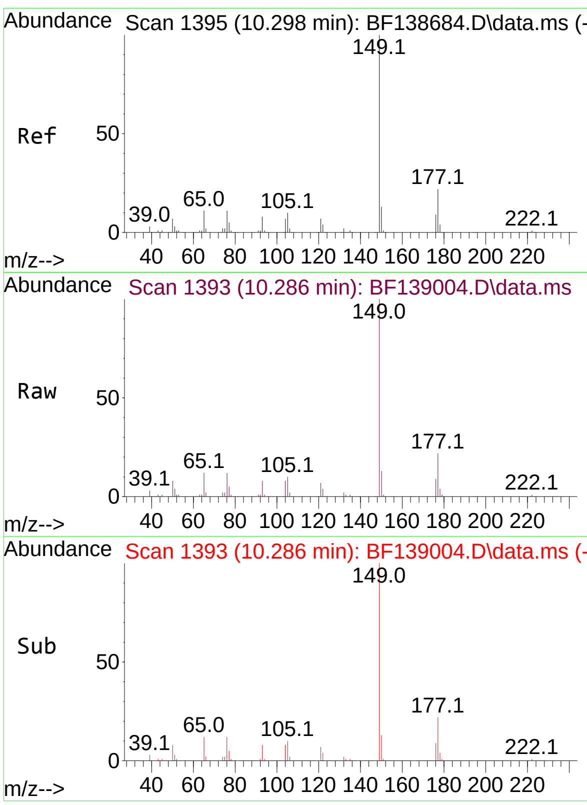


#59
2,3,4,6-Tetrachlorophenol
Concen: 55.559 ng
RT: 10.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:232 Resp: 4051

Ion	Ratio	Lower	Upper
232	100		
131	51.3	37.0	55.4
130	2.3	2.0	3.0
166	31.5	24.7	37.1

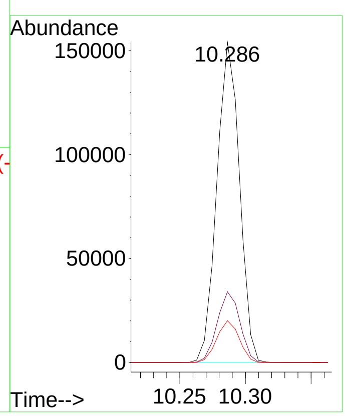




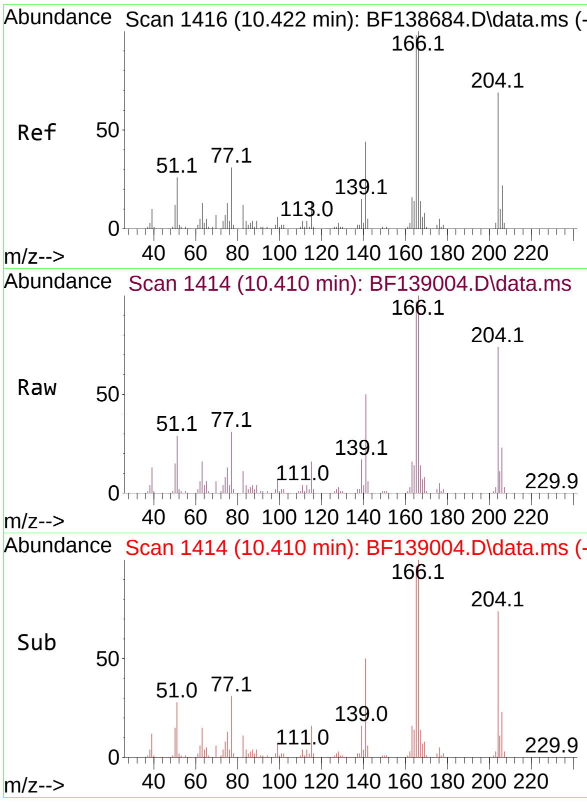
#60
Diethylphthalate
Concen: 59.168 ng
RT: 10.286 min Scan# 1393
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:149 Resp: 184795

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.8	26.8
150	13.0	10.1	15.1



Sample Results: **BF139004.D**



#61
4-Chlorophenyl-phenylether
Concen: 55.223 ng
RT: 10.410 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

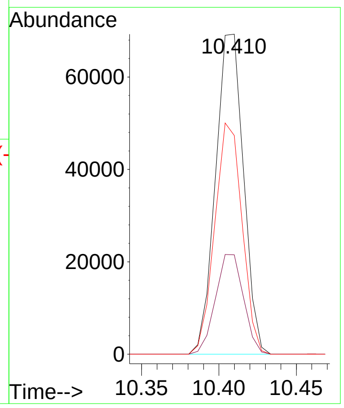
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

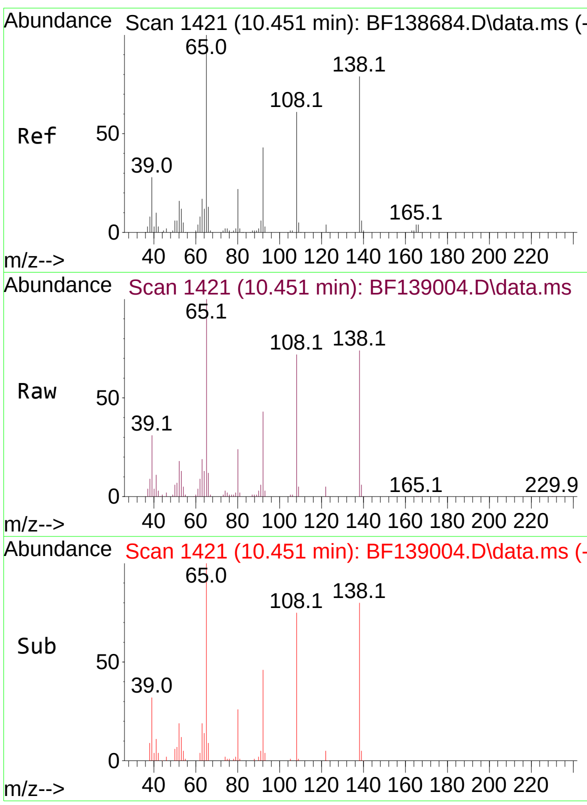
Tgt Ion:204 Resp: 8734

Ion	Ratio	Lower	Upper
204	100		
206	31.0	26.1	39.1
141	68.3	51.4	77.0

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

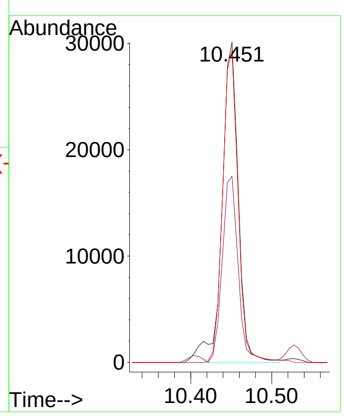


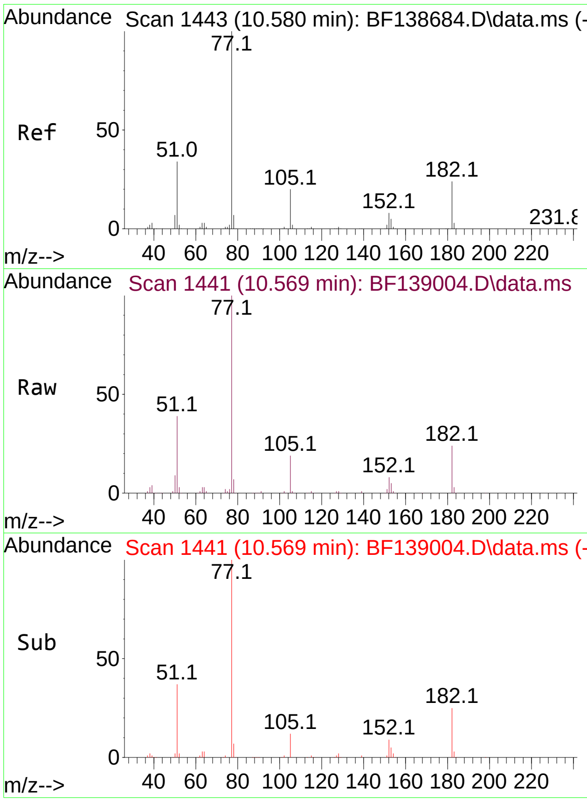


#62
4-Nitroaniline
Concen: 58.155 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:138 Resp: 42471

Ion	Ratio	Lower	Upper
138	100		
92	58.1	34.2	74.2
108	97.4	56.2	96.2#

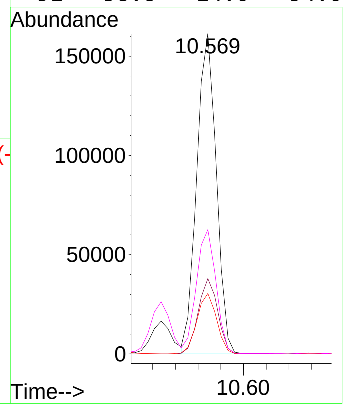




#63
Azobenzene
Concen: 55.922 ng
RT: 10.569 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

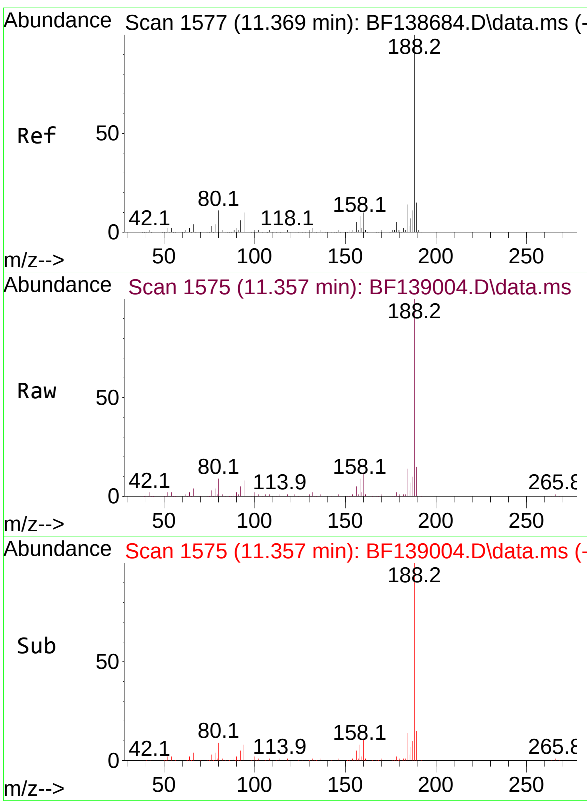
Tgt Ion: 77 Resp: 193711

Ion	Ratio	Lower	Upper
77	100		
182	23.6	3.4	43.4
105	18.9	0.2	40.2
51	38.8	14.6	54.6



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

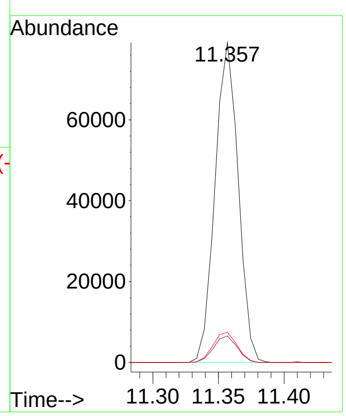
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

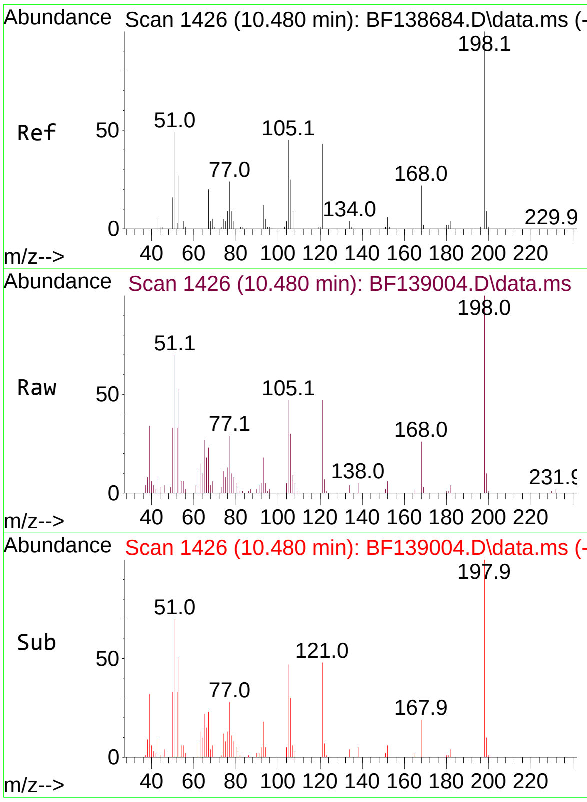


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1575
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:188 Resp: 97165

Ion	Ratio	Lower	Upper
188	100		
94	8.3	7.6	11.4
80	9.4	8.6	12.8





#65
4,6-Dinitro-2-methylphenol
Concen: 28.654 ng
RT: 10.480 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

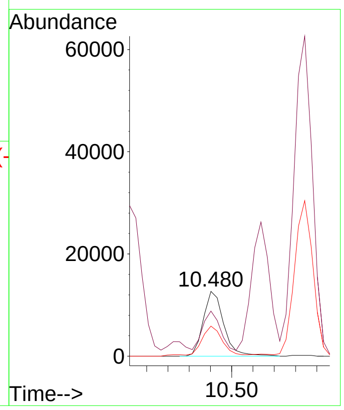
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

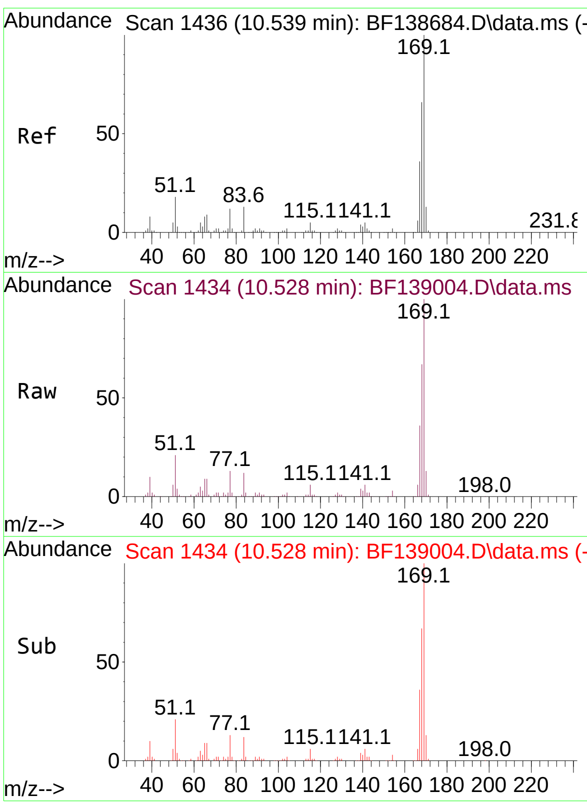
Tgt Ion:198 Resp: 1698

Ion	Ratio	Lower	Upper
198	100		
51	69.7	39.9	79.9
105	46.5	26.1	66.1

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

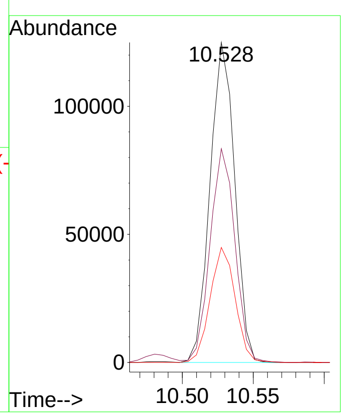




#66
n-Nitrosodiphenylamine
Concen: 49.925 ng
RT: 10.528 min Scan# 1434
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:169 Resp: 151630

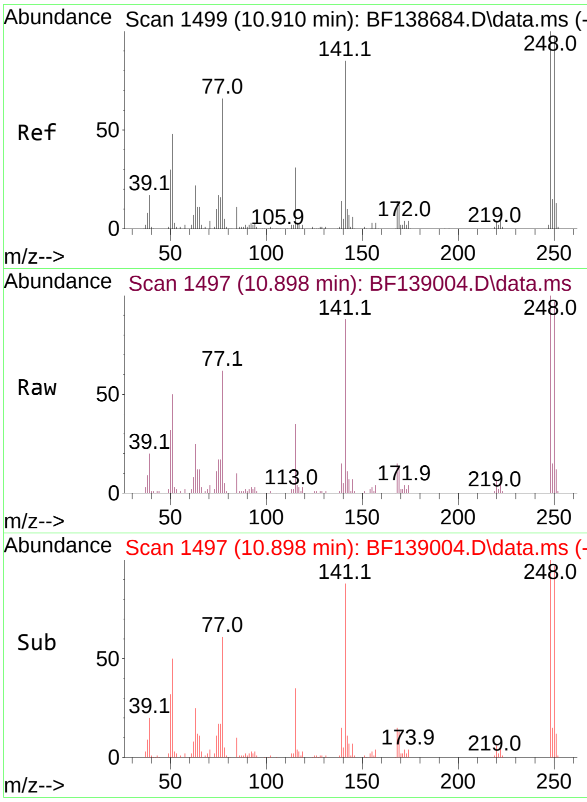
Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.0	79.6
167	35.9	29.0	43.6



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

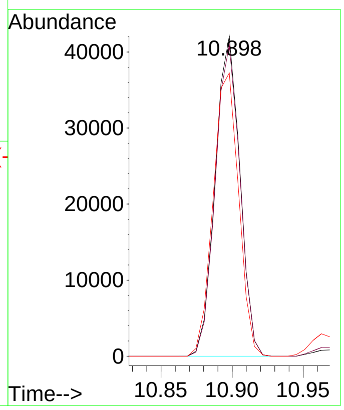
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

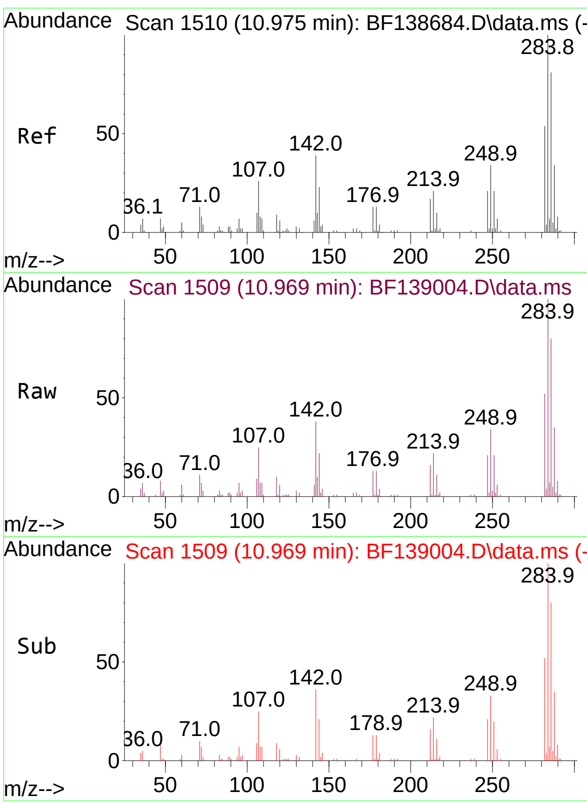


#67
4-Bromophenyl-phenylether
Concen: 48.217 ng
RT: 10.898 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:248 Resp: 5072

Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.7	116.5
141	88.5	68.0	102.0

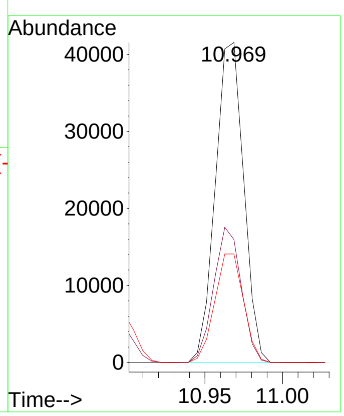




#68
Hexachlorobenzene
Concen: 48.653 ng
RT: 10.969 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

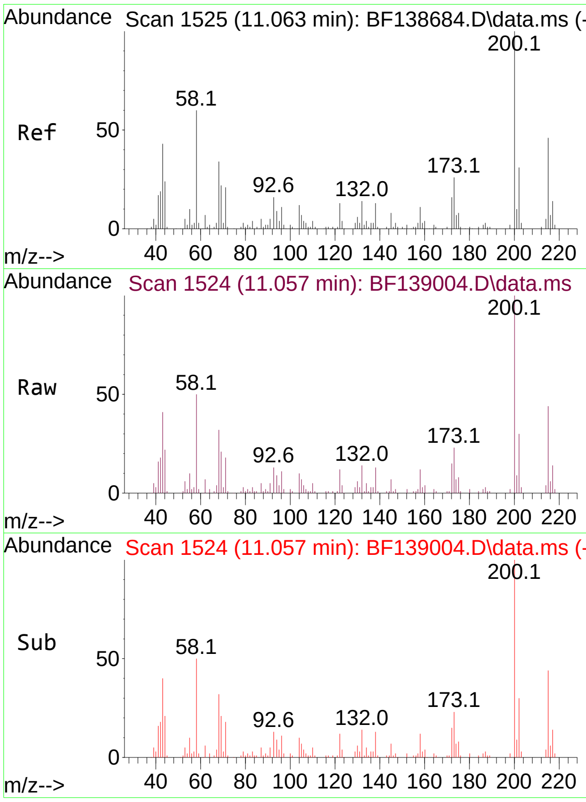
Tgt Ion:284 Resp: 52847

Ion	Ratio	Lower	Upper
284	100		
142	38.4	31.3	46.9
249	33.9	27.2	40.8

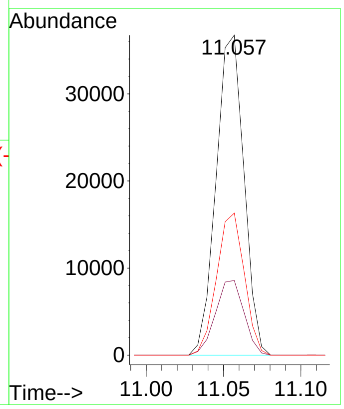


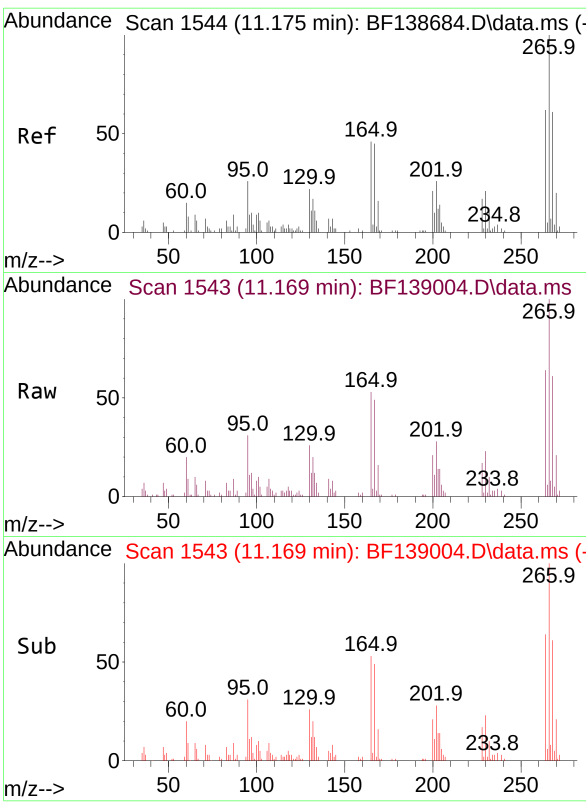
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

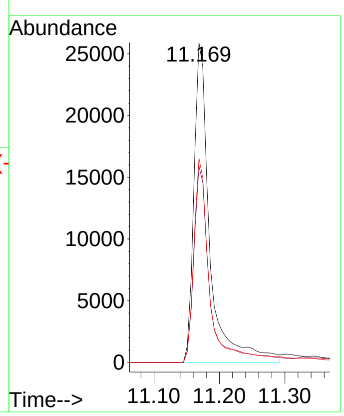


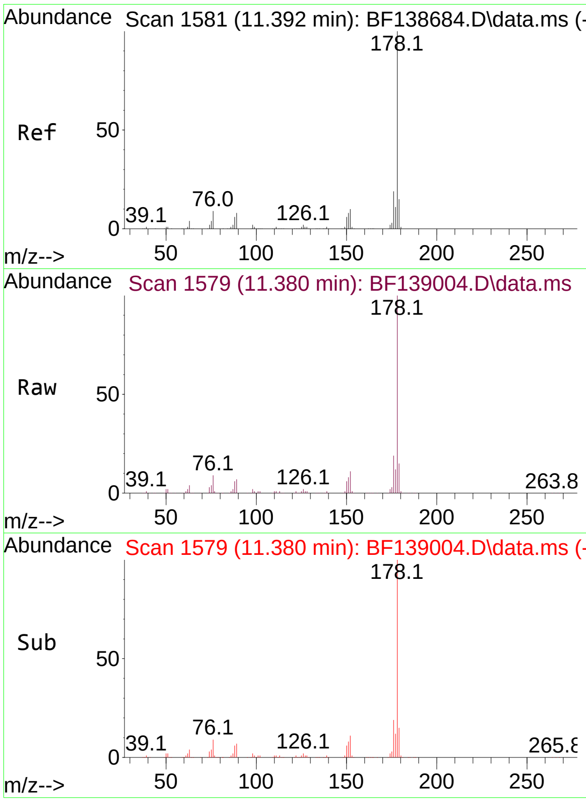

```
#69
Atrazine
Concen:    58.672 ng
RT:   11.057 min   Scan# 1
Delta R.T.   -0.006 min
Lab File:    BF139004.D
Acq: 14 Aug 2024   20:16

Tgt Ion:200 Resp:    4597
Ion   Ratio   Lower   Upper
200   100
173    23.4     6.0    46.0
215    44.4    26.1    66.1
```






```
#70
Pentachlorophenol
Concen:    90.567 ng
RT:   11.169 min   Scan# 1543
Delta R.T.   -0.006 min
Lab File:    BF139004.D
Acq: 14 Aug 2024   20:16

Tgt Ion:266 Resp:    44341
Ion   Ratio   Lower   Upper
266   100
268    61.3    49.2    73.8
264    63.8    49.8    74.6
```





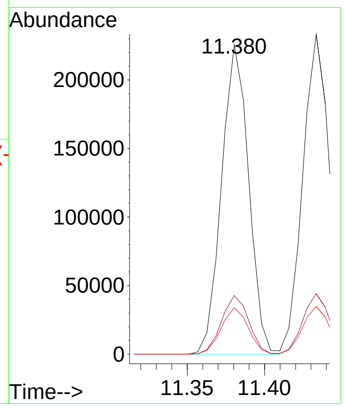
#71
Phenanthrene
Concen: 54.963 ng
RT: 11.380 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

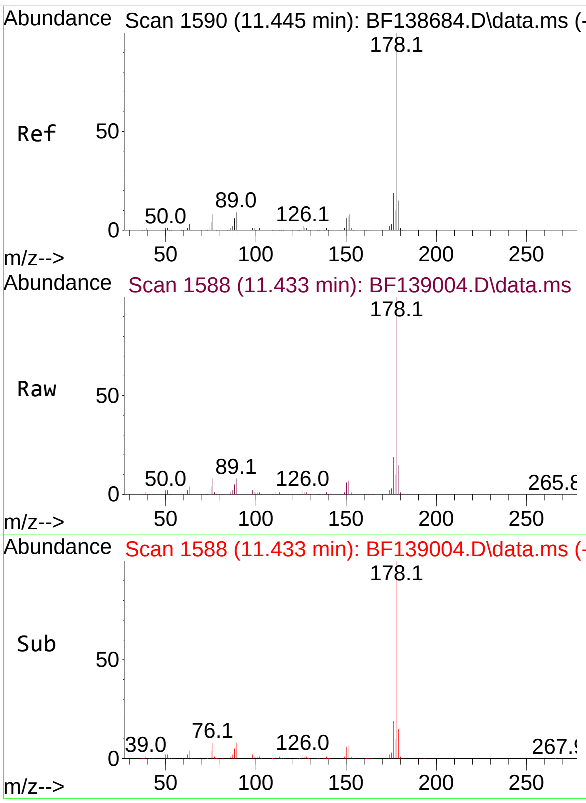
Tgt Ion:178 Resp: 27499

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.0	12.2	18.2

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

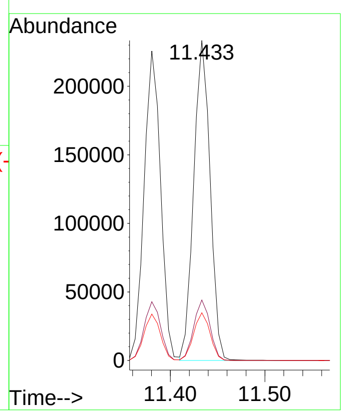




#72
Anthracene
Concen: 57.242 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

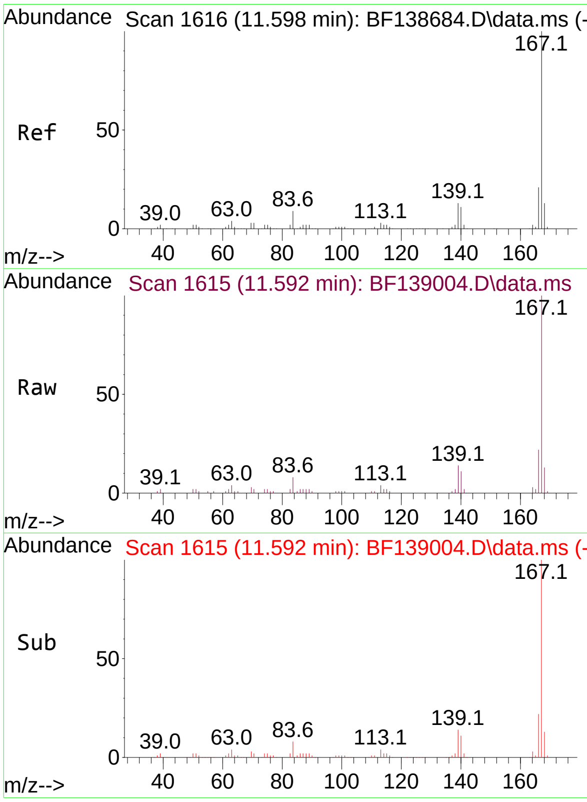
Tgt Ion:178 Resp: 282138

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.9	22.3
179	14.9	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

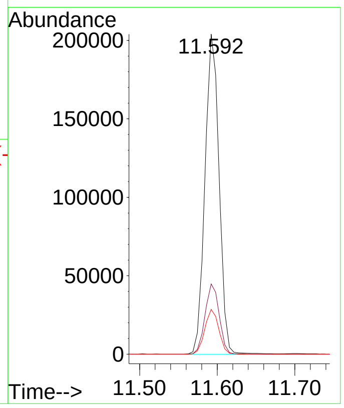
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

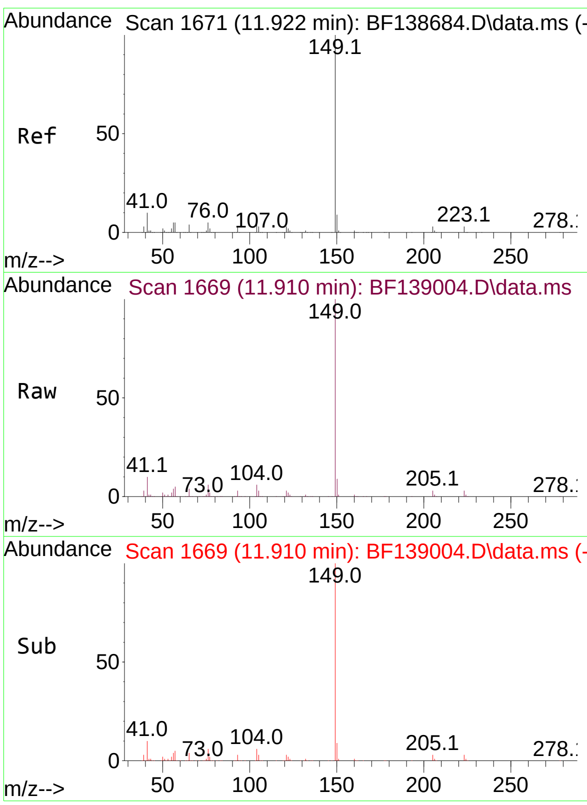


#73
Carbazole
Concen: 60.606 ng
RT: 11.592 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:167 Resp: 25771

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.2	25.8
139	14.0	10.6	16.0

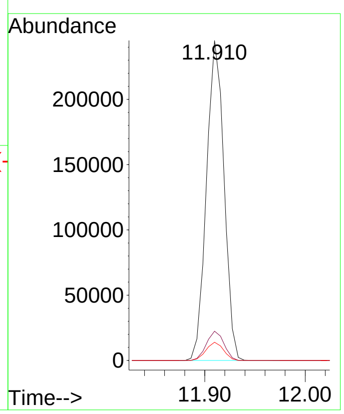




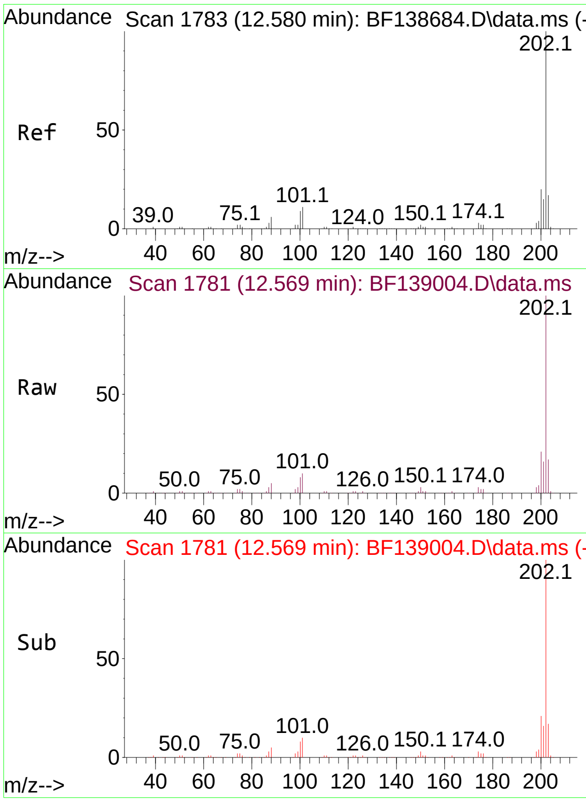
#74
Di-n-butylphthalate
Concen: 62.335 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:149 Resp: 297984

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.7	4.1	6.1



Sample Results: **BF139004.D**

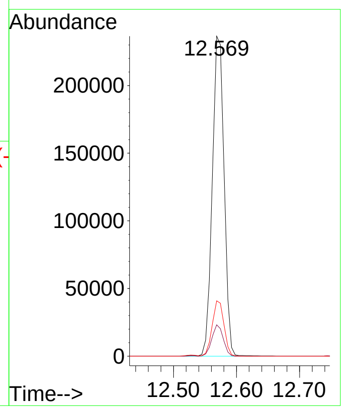


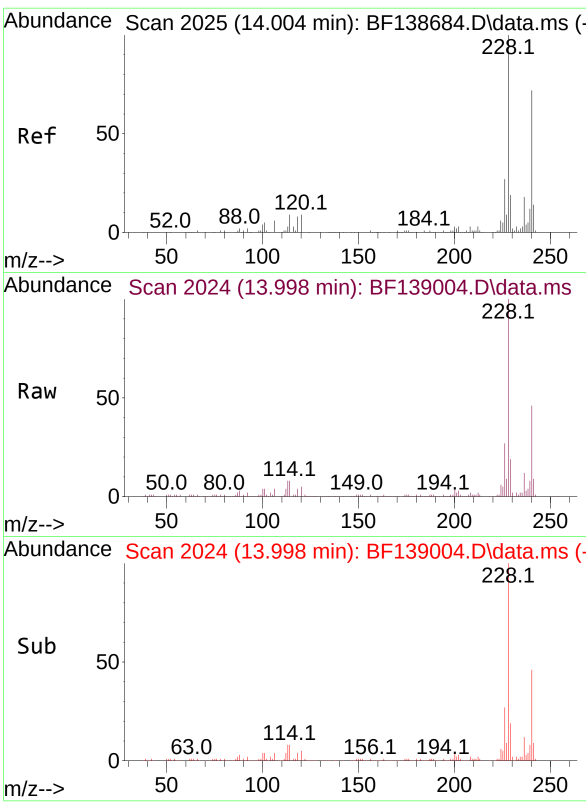

```
#75
Fluoranthene
Concen:   65.900 ng
RT:  12.569 min  Scan# 1
Delta R.T.  -0.012 min
Lab File:   BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion:202 Resp:  30780
Ion  Ratio  Lower  Upper
202  100
101    9.8    0.0   31.2
203   17.3    0.0   37.3
```

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

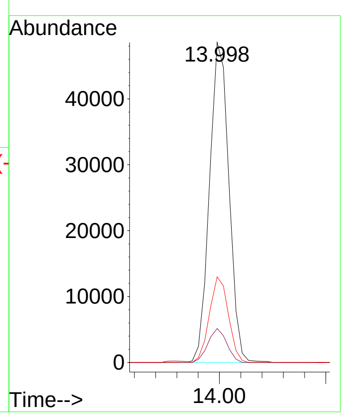
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024



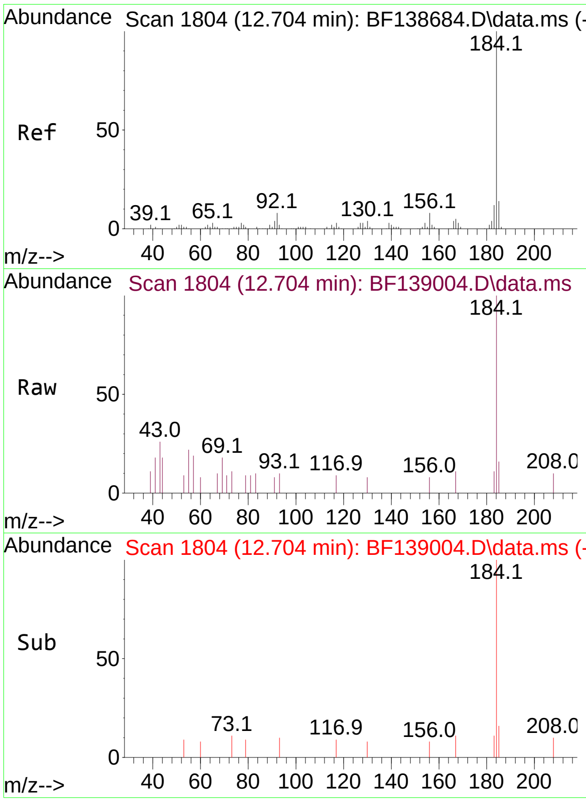



```
#76
Chrysene-d12
Concen:   20.000 ng
RT:  13.998 min  Scan# 2024
Delta R.T.  -0.006 min
Lab File:   BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion:240 Resp:   61682
Ion  Ratio  Lower  Upper
240  100
120   10.6   10.2   15.4
236   26.8   19.8   29.8
```



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

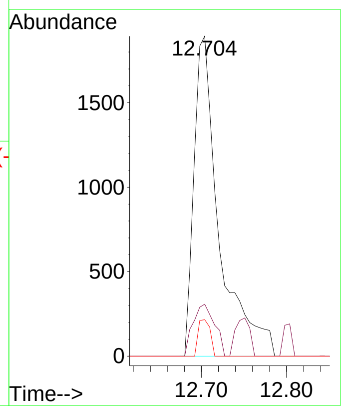
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

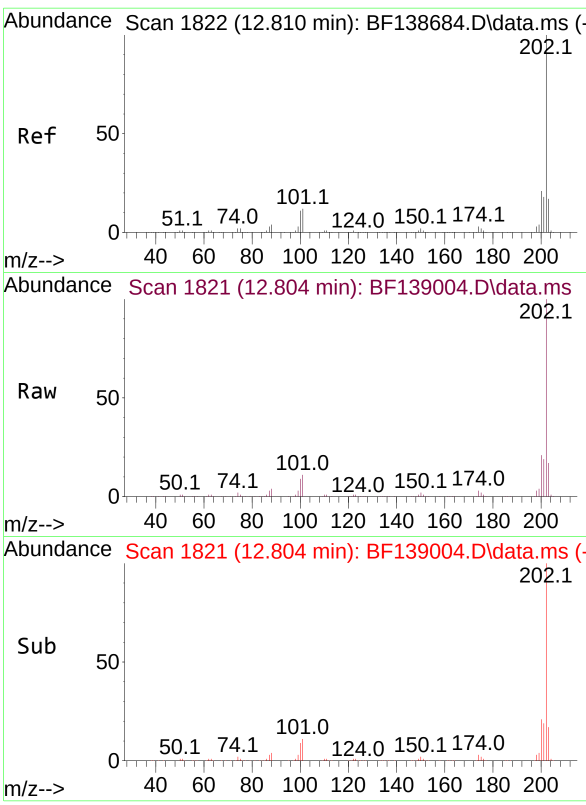


#77
Benzidine
Concen: 2.653 ng
RT: 12.704 min Scan# 18
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:184 Resp: 3914

Ion	Ratio	Lower	Upper
184	100		
185	16.3	11.1	16.7
183	11.4	9.6	14.4

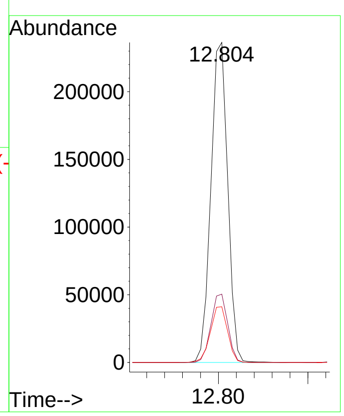


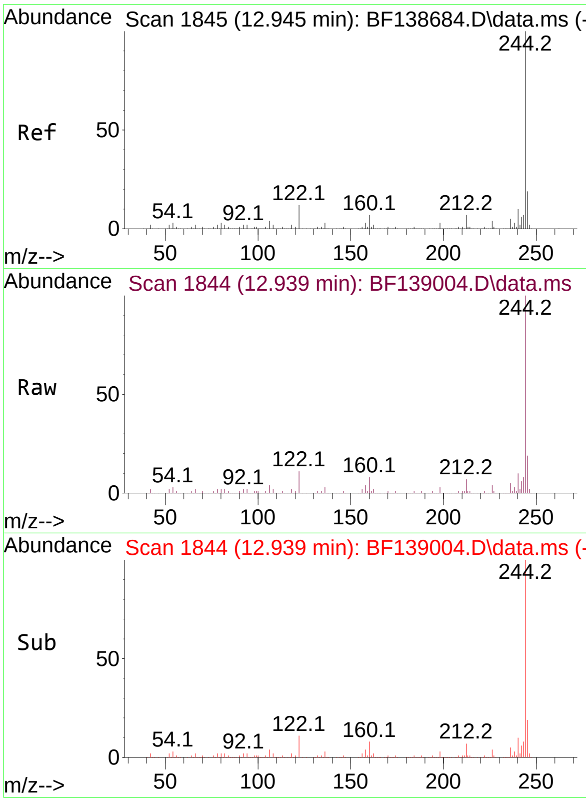


#78
Pyrene
Concen: 53.102 ng
RT: 12.804 min Scan# 1821
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:202 Resp: 308391

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.8	25.2
203	17.4	13.8	20.6





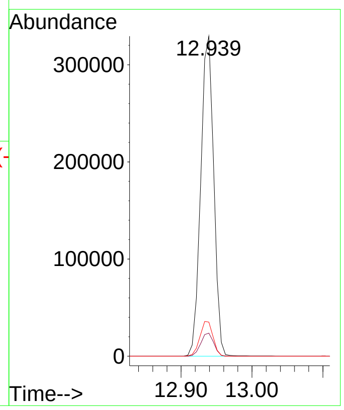
#79
Terphenyl-d14
Concen: 114.503 ng
RT: 12.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

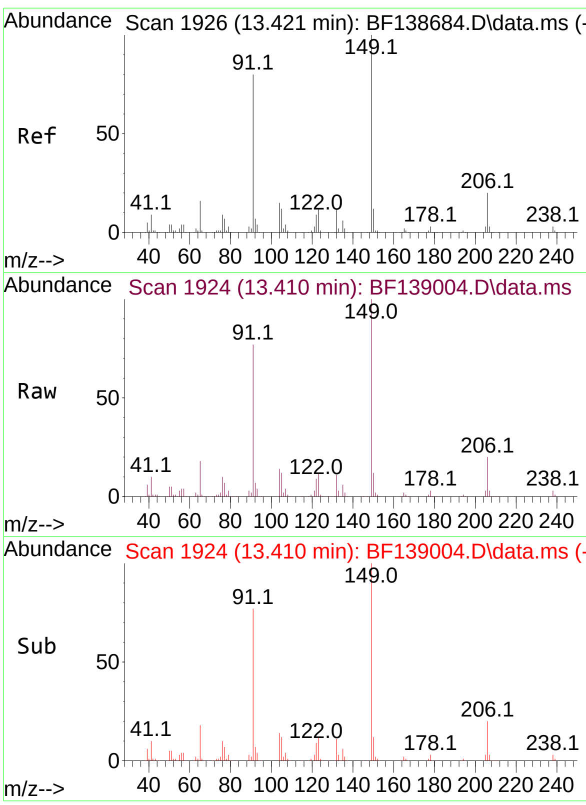
Tgt Ion:244 Resp: 42184

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.4	8.2
122	10.6	9.6	14.4

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

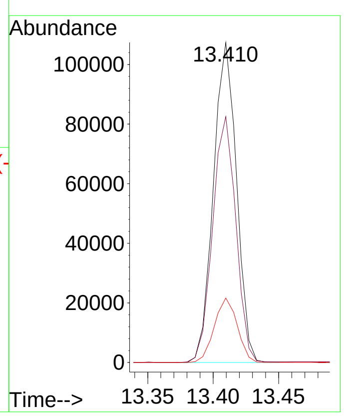




#80
Butylbenzylphthalate
Concen: 70.812 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:149 Resp: 131691

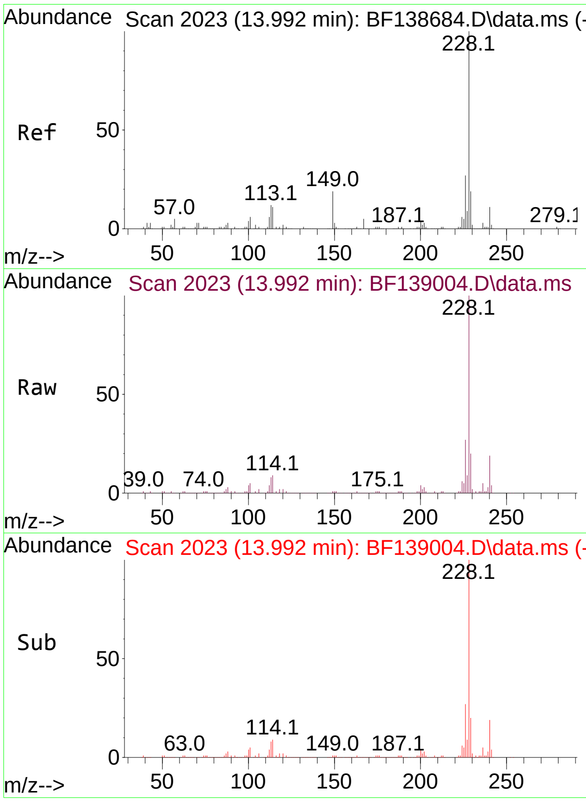
Ion	Ratio	Lower	Upper
149	100		
91	76.8	63.7	95.5
206	20.1	16.2	24.2



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

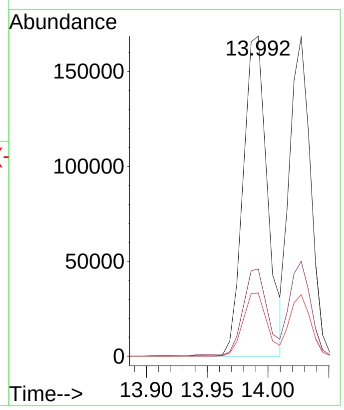
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

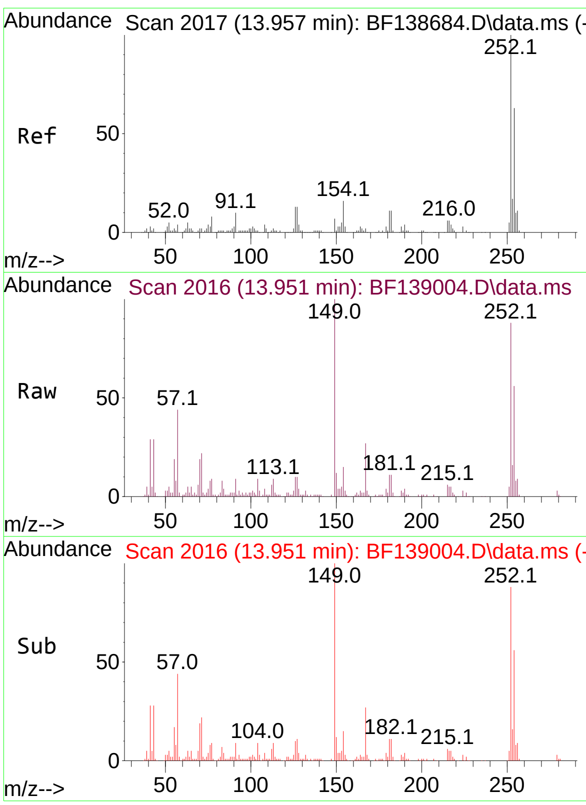


#81
Benzo(a)anthracene
Concen: 55.217 ng
RT: 13.992 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:228 Resp: 23453

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.1	33.1
229	19.8	15.4	23.0

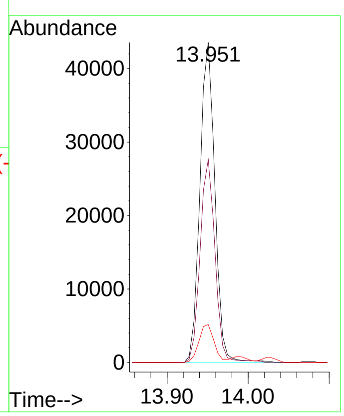




#82
3,3'-Dichlorobenzidine
Concen: 51.379 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:252 Resp: 55847

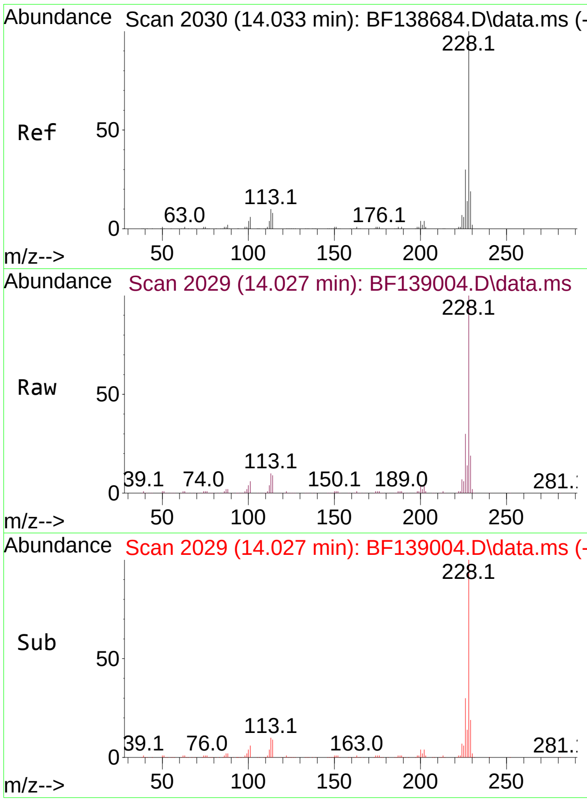
Ion	Ratio	Lower	Upper
252	100		
254	63.4	50.8	76.2
126	11.9	10.2	15.2



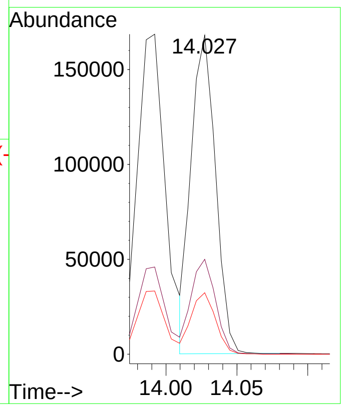
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

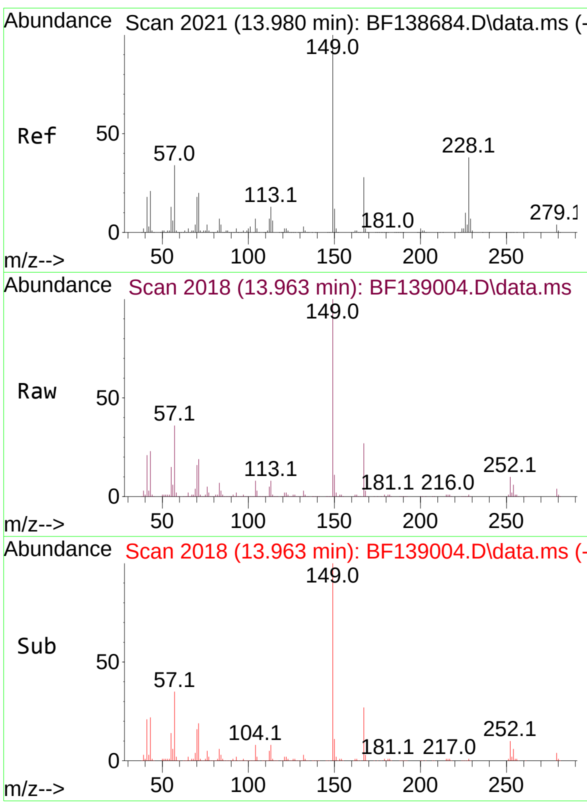
Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

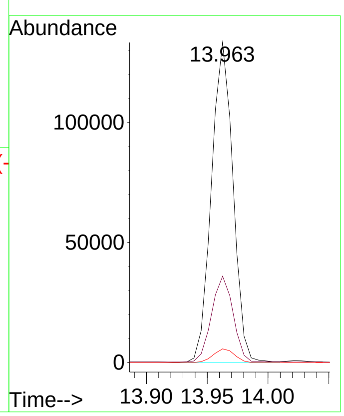



```
#83
Chrysene
Concen:   52.505 ng
RT:  14.027 min  Scan# 20
Delta R.T.   -0.006 min
Lab File:   BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion:228 Resp:  20120
Ion  Ratio  Lower  Upper
228  100
226   29.7   23.7   35.5
229   19.3   15.0   22.6
```





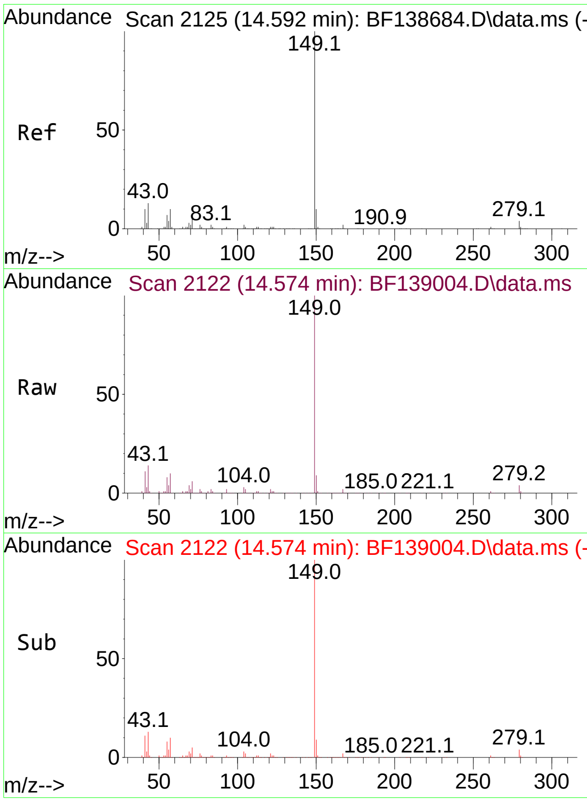

```
#84
Bis(2-ethylhexyl)phthalate
Concen:   60.475 ng
RT:  13.963 min  Scan# 2018
Delta R.T.   -0.018 min
Lab File:   BF139004.D
Acq: 14 Aug 2024  20:16

Tgt Ion:149 Resp:  164690
Ion  Ratio  Lower  Upper
149  100
167   27.0   22.2   33.4
279    4.2    3.4    5.0
```



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

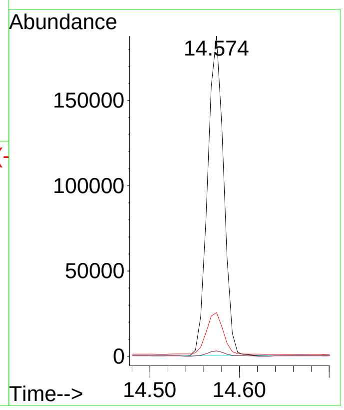
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

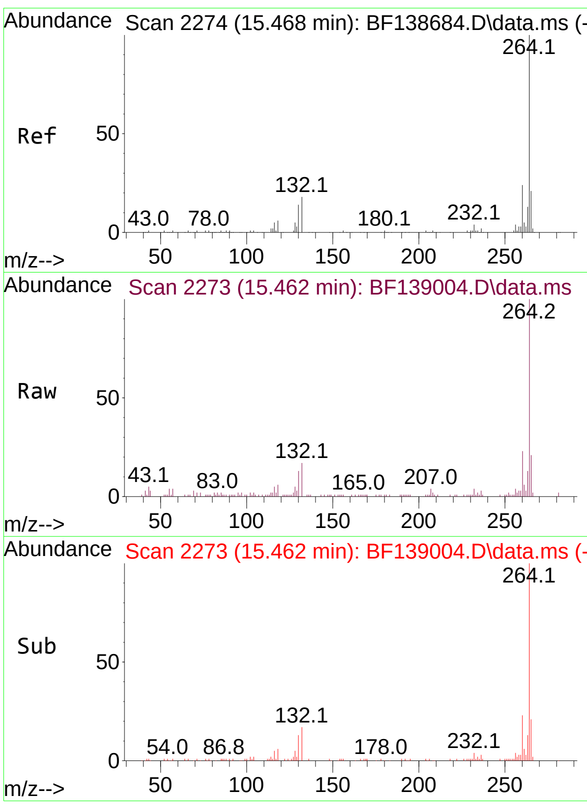


#85
Di-n-octyl phthalate
Concen: 46.411 ng
RT: 14.574 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:149 Resp: 23384

Ion	Ratio	Lower	Upper
149	100		
167	2.0	1.4	2.0
43	14.1	10.4	15.6

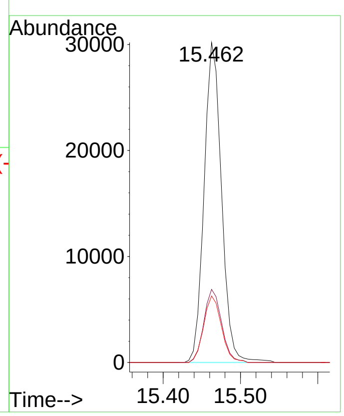


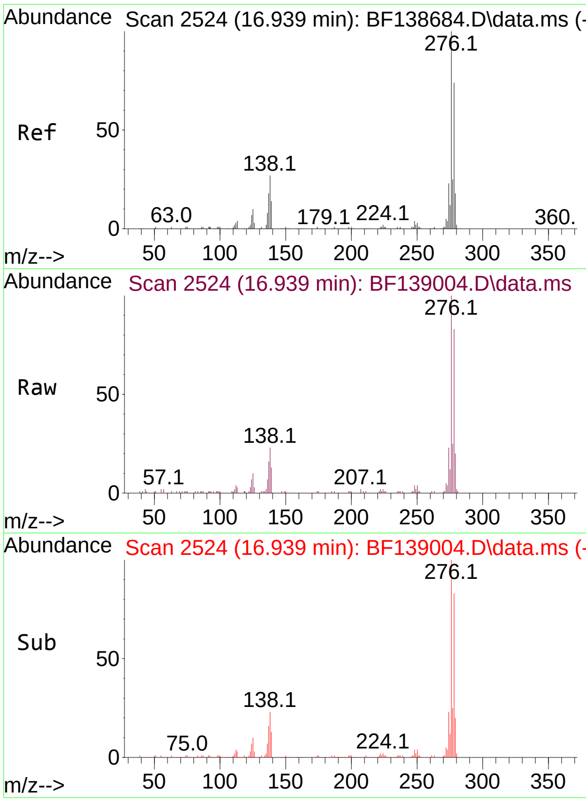


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:264 Resp: 47286

Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.0	28.6
265	20.8	17.0	25.6





#87
Indeno(1,2,3-cd)pyrene
Concen: 45.760 ng
RT: 16.939 min Scan# 2!
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

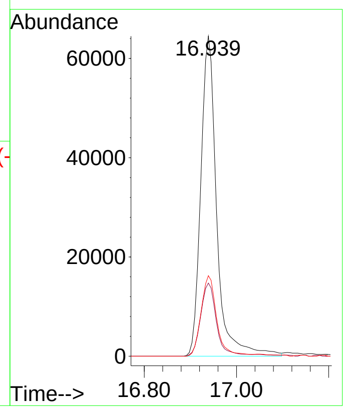
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

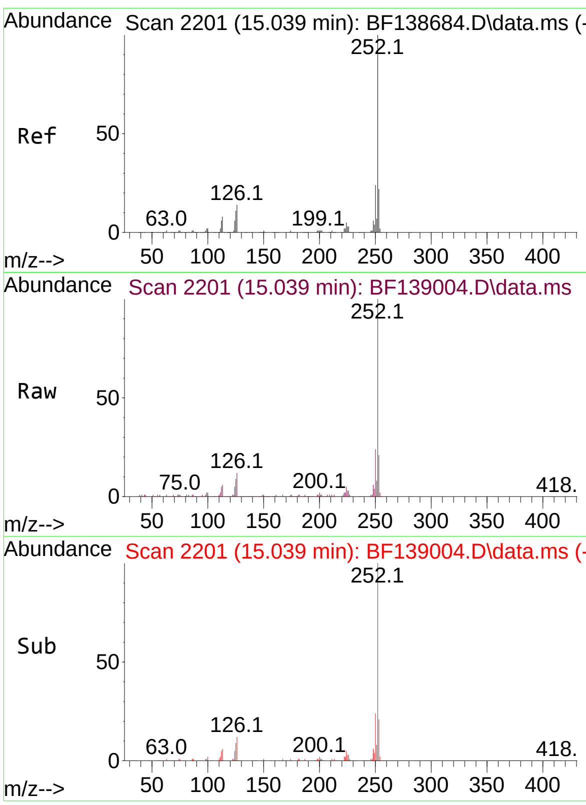
Tgt Ion:276 Resp: 15506(

Ion	Ratio	Lower	Upper
276	100		
138	22.6	21.8	32.8
277	24.7	20.6	30.8

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

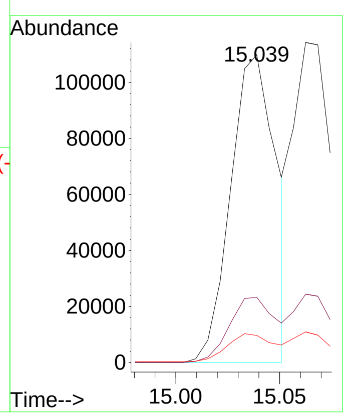




#88
Benzo(b)fluoranthene
Concen: 56.715 ng m
RT: 15.039 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

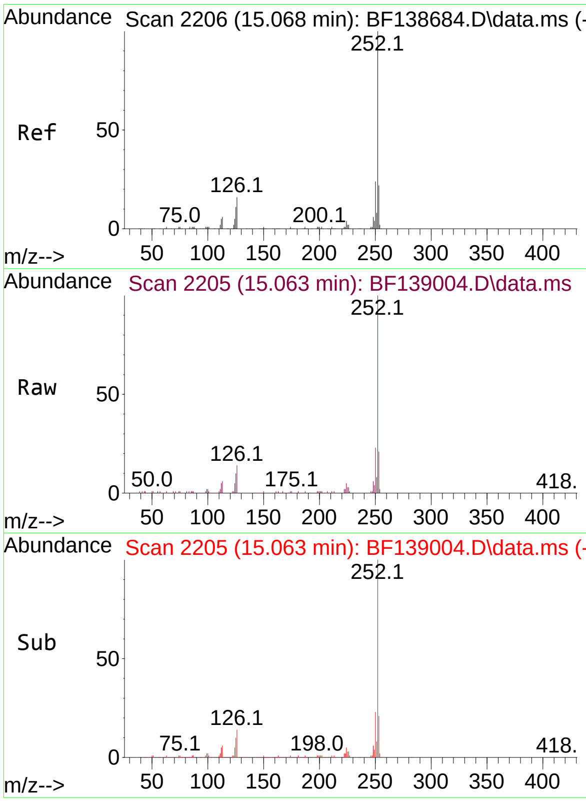
Tgt Ion:252 Resp: 166247

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.5	26.3
125	8.8	8.9	13.3#



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

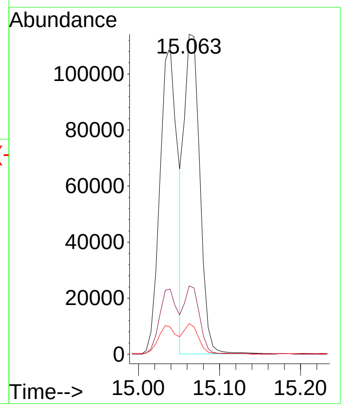
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

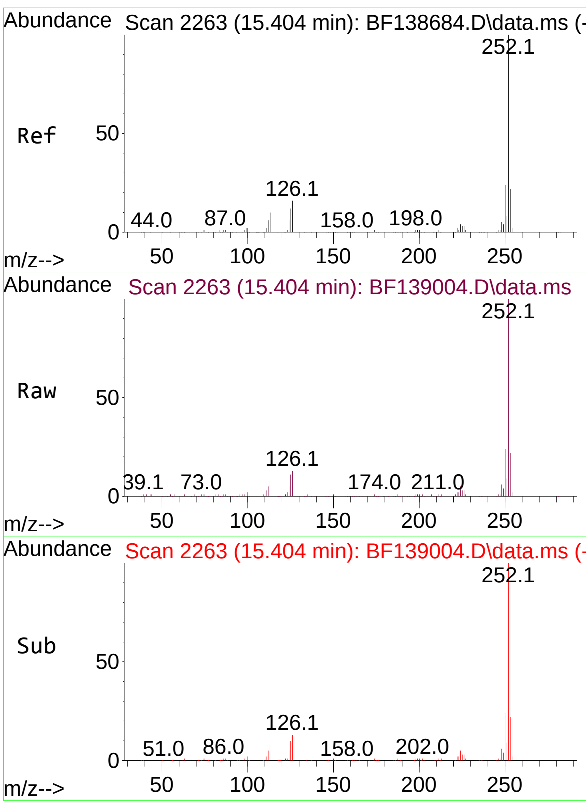


#89
Benzo(k)fluoranthene
Concen: 60.458 ng
RT: 15.063 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:252 Resp: 15343

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.0
125	9.6	8.6	13.0

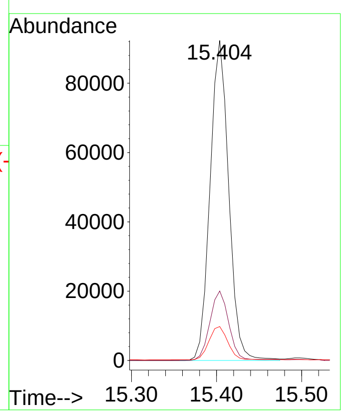


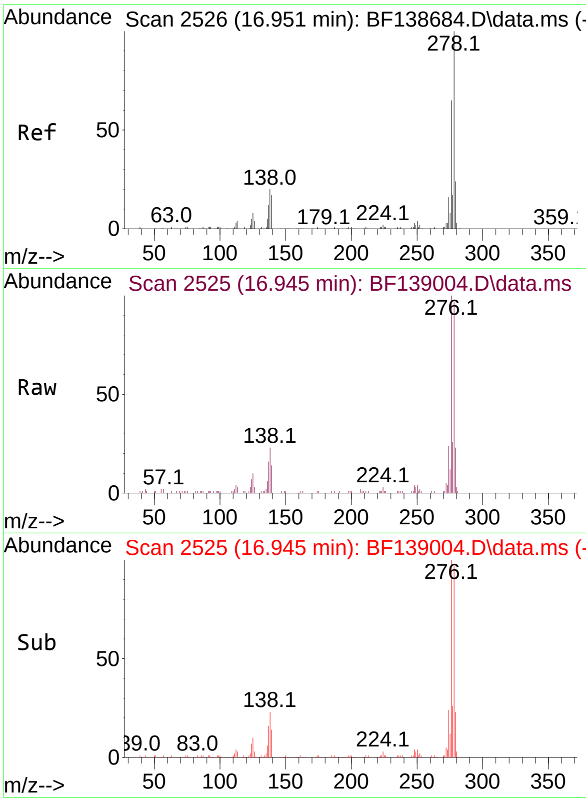


#90
Benzo(a)pyrene
Concen: 57.146 ng
RT: 15.404 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:252 Resp: 140901

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9
125	10.6	9.5	14.3





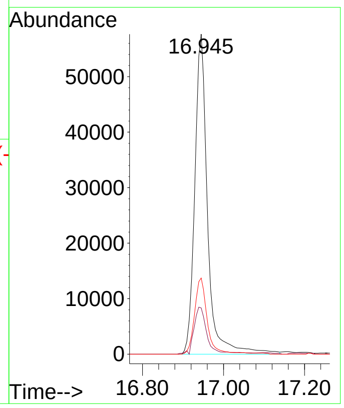
#91
Dibenzo(a,h)anthracene
Concen: 45.695 ng
RT: 16.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

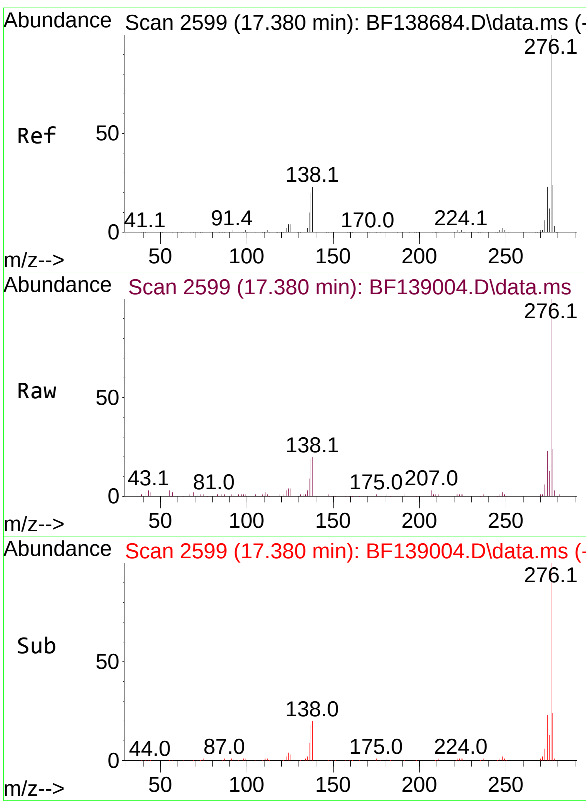
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MS

Tgt Ion:278 Resp: 12711

Ion	Ratio	Lower	Upper
278	100		
139	14.5	14.0	21.0
279	23.8	19.0	28.4

Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

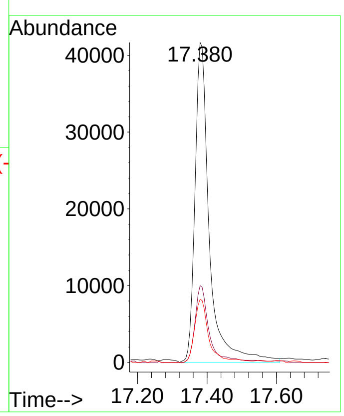




#92
Benzo(g,h,i)perylene
Concen: 41.679 ng
RT: 17.380 min Scan# 2599
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:276 Resp: 120309

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.0	28.4
138	19.7	18.5	27.7



Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.			Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ			Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MSD			SDG No.:	P3467
Lab Sample ID:	P3466-03MSD			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	950	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group6
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139005.D	1	08/05/24 08:25	08/14/24 20:47	PB162489

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	16.3		1.60	5.30	ug/L
100-52-7	Benzaldehyde	4.20	U	4.20	10.5	ug/L
95-48-7	2-Methylphenol	36.1		1.20	5.30	ug/L
98-86-2	Acetophenone	57.3		1.20	5.30	ug/L
65794-96-9	3+4-Methylphenols	32.8		1.20	10.5	ug/L
98-95-3	Nitrobenzene	55.8		1.30	5.30	ug/L
120-83-2	2,4-Dichlorophenol	51.0		0.93	5.30	ug/L
91-20-3	Naphthalene	50.3		1.10	5.30	ug/L
87-68-3	Hexachlorobutadiene	51.4		1.30	5.30	ug/L
91-57-6	2-Methylnaphthalene	49.2		1.20	5.30	ug/L
88-06-2	2,4,6-Trichlorophenol	56.9		0.94	5.30	ug/L
95-95-4	2,4,5-Trichlorophenol	55.9		1.10	5.30	ug/L
208-96-8	Acenaphthylene	59.9		1.10	5.30	ug/L
83-32-9	Acenaphthene	55.3		0.85	5.30	ug/L
132-64-9	Dibenzofuran	57.7		0.98	5.30	ug/L
86-73-7	Fluorene	59.7		1.00	5.30	ug/L
118-74-1	Hexachlorobenzene	51.5		1.20	5.30	ug/L
87-86-5	Pentachlorophenol	97.5	E	1.90	10.5	ug/L
85-01-8	Phenanthrene	58.3		0.94	5.30	ug/L
86-74-8	Carbazole	64.6		1.20	5.30	ug/L
84-74-2	Di-n-butylphthalate	66.6		1.50	5.30	ug/L
206-44-0	Fluoranthene	69.4		1.40	5.30	ug/L
129-00-0	Pyrene	55.8		1.10	5.30	ug/L
56-55-3	Benzo(a)anthracene	57.1		0.99	5.30	ug/L
218-01-9	Chrysene	56.1		0.91	5.30	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	63.1		2.00	5.30	ug/L
205-99-2	Benzo(b)fluoranthene	59.8		1.20	5.30	ug/L
207-08-9	Benzo(k)fluoranthene	66.8		1.30	5.30	ug/L
50-32-8	Benzo(a)pyrene	61.5		1.80	5.30	ug/L

Raw Data: **BF139005.D**

Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.			Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ			Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MSD			SDG No.:	P3467
Lab Sample ID:	P3466-03MSD			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	950	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group6
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139005.D	1	08/05/24 08:25	08/14/24 20:47	PB162489

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
193-39-5	Indeno(1,2,3-cd)pyrene	49.2		1.10	5.30	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.9		1.20	5.30	ug/L
191-24-2	Benzo(g,h,i)perylene	43.1		1.20	5.30	ug/L
123-91-1	1,4-Dioxane	24.1		1.30	5.30	ug/L
90-12-0	1-Methylnaphthalene	46.2		0.91	5.30	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	75.1		15 (10) - 110 (139)	50%	SPK: 150
13127-88-3	Phenol-d6	43.2		15 (10) - 110 (134)	29%	SPK: 150
4165-60-0	Nitrobenzene-d5	104		30 (49) - 130 (133)	104%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		30 (52) - 130 (132)	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	156		15 (32) - 110 (145)	104%	SPK: 150
1718-51-0	Terphenyl-d14	113		30 (36) - 130 (145)	113%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	35400	6.834			
1146-65-2	Naphthalene-d8	122000	8.116			
15067-26-2	Acenaphthene-d10	56200	9.869			
1517-22-2	Phenanthrene-d10	107000	11.357			
1719-03-5	Chrysene-d12	69400	13.998			
1520-96-3	Perylene-d12	51400	15.462			

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

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

Quantitation Report (QT Reviewed)

Sample Results: **BF139005.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139005.D
Acq On : 14 Aug 2024 20:47
Operator : RC/JU
Sample : P3466-03MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Quant Time: Aug 15 01:13:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	35424	20.000	ng	-0.01
21) Naphthalene-d8	8.116	136	122342	20.000	ng	-0.01
39) Acenaphthene-d10	9.869	164	56215	20.000	ng	-0.01
64) Phenanthrene-d10	11.357	188	107145	20.000	ng	-0.01
76) Chrysene-d12	13.998	240	69421	20.000	ng	0.00
86) Perylene-d12	15.462	264	51366	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	172246	75.059	ng	0.00
7) Phenol-d6	6.486	99	133158	43.219	ng	0.00
23) Nitrobenzene-d5	7.404	82	259995	103.901	ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	71643	155.585	ng	0.00
45) 2-Fluorobiphenyl	9.186	172	374387	100.065	ng	-0.02
79) Terphenyl-d14	12.939	244	467448	112.737	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units		Qvalue
2) 1,4-Dioxane	2.610	88	23005	22.898	ng	#	93
3) Pyridine	3.387	79	37615	15.455	ng		91
4) n-Nitrosodimethylamine	3.328	42	48359	33.362	ng		83
6) Aniline	6.504	93	63933	23.268	ng	#	77
8) 2-Chlorophenol	6.634	128	104148	43.136	ng		97
9) Benzaldehyde	6.398	77	5341	2.892	ng		99
10) Phenol	6.498	94	55375	17.070	ng	#	56
11) bis(2-Chloroethyl)ether	6.575	93	125998	50.473	ng		98
12) 1,3-Dichlorobenzene	6.775	146	114635	42.416	ng		97
13) 1,4-Dichlorobenzene	6.851	146	116971	42.886	ng		98
14) 1,2-Dichlorobenzene	7.004	146	110492	43.347	ng		99
15) Benzyl Alcohol	6.986	79	84537	38.069	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.104	45	205652	47.870	ng		77
17) 2-Methylphenol	7.110	107	68440	34.328	ng	#	79
18) Hexachloroethane	7.345	117	40549	39.496	ng		94
19) n-Nitroso-di-n-propyla...	7.251	70	93422	50.203	ng		94
20) 3+4-Methylphenols	7.263	107	79648	31.137	ng	#	70
22) Acetophenone	7.251	105	163123	54.455	ng		94
24) Nitrobenzene	7.428	77	135036	53.032	ng		99
25) Isophorone	7.663	82	231397	54.155	ng		98
26) 2-Nitrophenol	7.739	139	55760	50.899	ng		89
27) 2,4-Dimethylphenol	7.781	122	67303	51.348	ng		96
28) bis(2-Chloroethoxy)met...	7.869	93	135972	52.256	ng		98
29) 2,4-Dichlorophenol	7.998	162	81596	48.446	ng		99
30) 1,2,4-Trichlorobenzene	8.057	180	92571	47.627	ng		98
31) Naphthalene	8.139	128	307717	47.784	ng		100
32) Benzoic acid	7.898	122	10938	10.616	ng		95
33) 4-Chloroaniline	8.198	127	59573	27.559	ng		96
34) Hexachlorobutadiene	8.251	225	57436	48.787	ng		98
35) Caprolactam	8.563	113	4822	9.595	ng		98
36) 4-Chloro-3-methylphenol	8.680	107	82087	42.646	ng		100
37) 2-Methylnaphthalene	8.828	142	190117	46.746	ng		99
38) 1-Methylnaphthalene	8.928	142	174825	43.867	ng		99
40) 1,2,4,5-Tetrachloroben...	8.992	216	79872	51.148	ng		98
41) Hexachlorocyclopentadiene	8.975	237	9541	28.039	ng		98
43) 2,4,6-Trichlorophenol	9.116	196	51479	54.068	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139005.D
Acq On : 14 Aug 2024 20:47
Operator : RC/JU
Sample : P3466-03MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Quant Time: Aug 15 01:13:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	2,4,5-Trichlorophenol	9.163	196	55295	53.124	ng		98
46)	1,1'-Biphenyl	9.292	154	219875	49.941	ng		99
47)	2-Chloronaphthalene	9.316	162	169911	51.891	ng		97
48)	2-Nitroaniline	9.422	65	66537	59.940	ng		93
49)	Acenaphthylene	9.733	152	264075	56.863	ng		100
50)	Dimethylphthalate	9.592	163	206813	57.537	ng		99
51)	2,6-Dinitrotoluene	9.663	165	43358	53.449	ng	#	88
52)	Acenaphthene	9.904	154	163965	52.522	ng		98
53)	3-Nitroaniline	9.833	138	36083	43.028	ng		93
54)	2,4-Dinitrophenol	9.951	184	23610	63.226	ng	#	82
55)	Dibenzofuran	10.074	168	241498	54.801	ng		97
56)	4-Nitrophenol	10.022	139	18170	36.031	ng		84
57)	2,4-Dinitrotoluene	10.069	165	61336	59.264	ng	#	79
58)	Fluorene	10.416	166	199064	56.725	ng		99
59)	2,3,4,6-Tetrachlorophenol	10.198	232	44596	56.042	ng		96
60)	Diethylphthalate	10.286	149	200243	58.754	ng		99
61)	4-Chlorophenyl-phenyle...	10.410	204	94653	54.841	ng		95
62)	4-Nitroaniline	10.451	138	47561	59.680	ng		86
63)	Azobenzene	10.569	77	214205	56.668	ng		96
65)	4,6-Dinitro-2-methylph...	10.480	198	21054	32.209	ng		88
66)	n-Nitrosodiphenylamine	10.527	169	160865	48.032	ng		98
67)	4-Bromophenyl-phenylether	10.898	248	55284	47.657	ng		97
68)	Hexachlorobenzene	10.969	284	58620	48.941	ng		99
69)	Atrazine	11.057	200	48988	56.694	ng		98
70)	Pentachlorophenol	11.169	266	50020	92.650	ng		99
71)	Phenanthrene	11.380	178	305574	55.387	ng		100
72)	Anthracene	11.433	178	304936	56.105	ng		99
73)	Carbazole	11.592	167	287592	61.332	ng		98
74)	Di-n-butylphthalate	11.910	149	333398	63.247	ng		99
75)	Fluoranthene	12.568	202	339497	65.915	ng		99
77)	Benzidine	12.704	184	4484	2.701	ng		97
78)	Pyrene	12.804	202	346232	52.971	ng		99
80)	Butylbenzylphthalate	13.410	149	145402	69.468	ng		98
81)	Benzo(a)anthracene	13.992	228	259253	54.232	ng		99
82)	3,3'-Dichlorobenzidine	13.951	252	65454	53.504	ng		99
83)	Chrysene	14.027	228	229659	53.249	ng		99
84)	Bis(2-ethylhexyl)phtha...	13.962	149	183851	59.985	ng		98
85)	Di-n-octyl phthalate	14.574	149	265356	46.794	ng		100
87)	Indeno(1,2,3-cd)pyrene	16.939	276	172061	46.742	ng		95
88)	Benzo(b)fluoranthene	15.039	252	181039	56.856	ng		98
89)	Benzo(k)fluoranthene	15.068	252	175013	63.481	ng		98
90)	Benzo(a)pyrene	15.404	252	156468	58.419	ng		99
91)	Dibenzo(a,h)anthracene	16.945	278	143340	47.437	ng		98
92)	Benzo(g,h,i)perylene	17.380	276	128350	40.933	ng		95

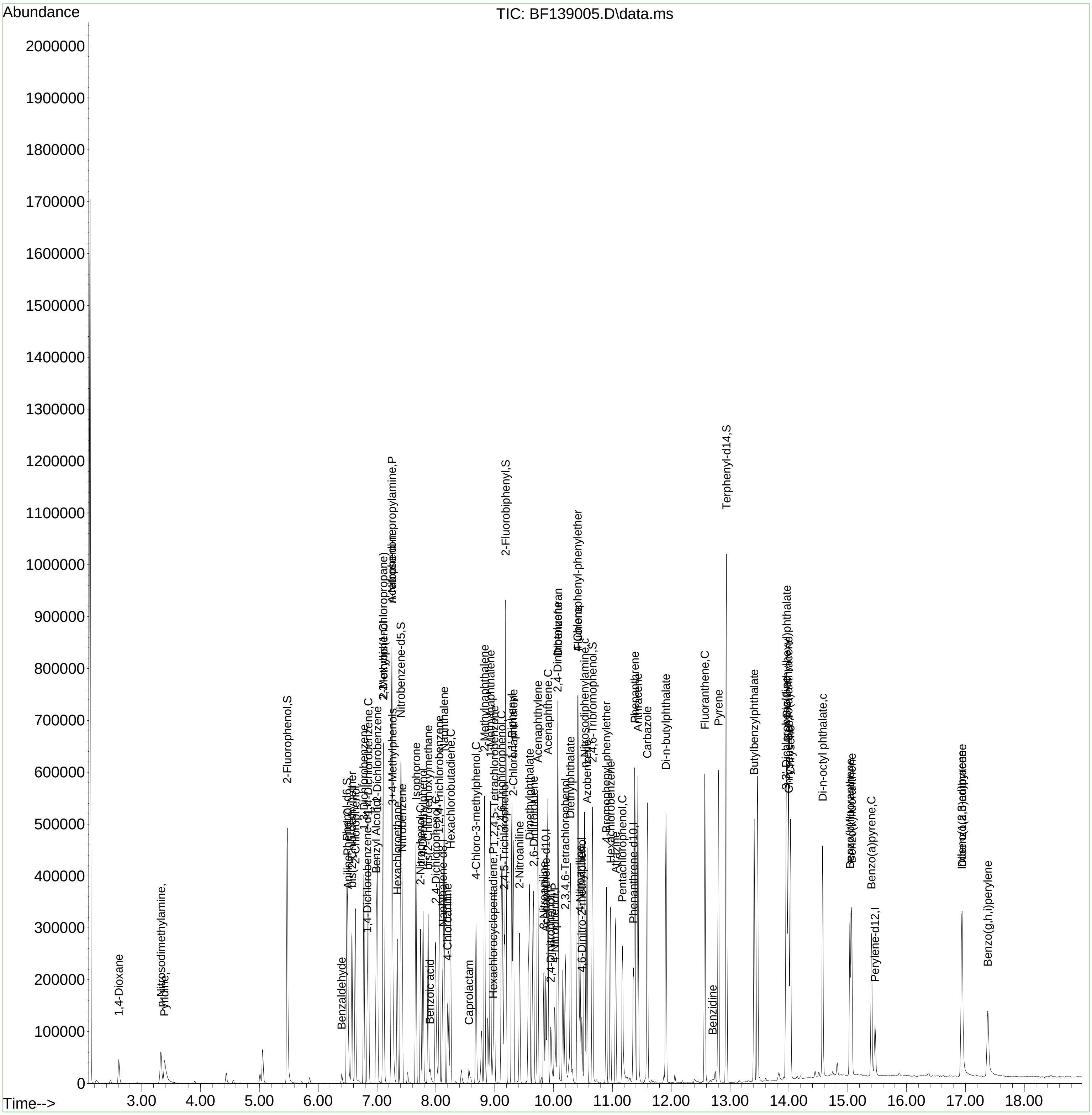
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

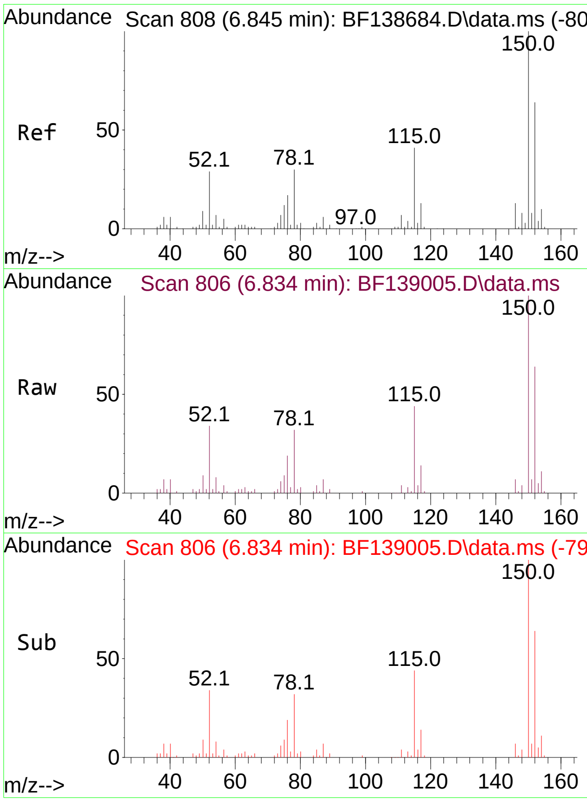
Sample Results: **BF139005.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139005.D
Acq On    : 14 Aug 2024  20:47
Operator  : RC/JU
Sample    : P3466-03MSD
Misc      :
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Aug 15 01:13:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration
```

Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD



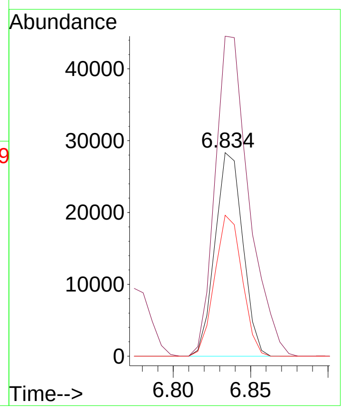
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

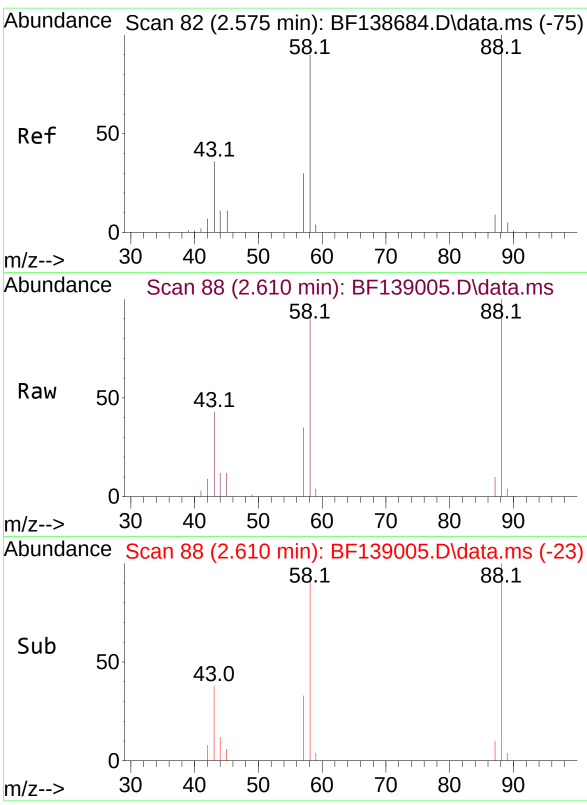


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:152 Resp: 35424

Ion	Ratio	Lower	Upper
152	100		
150	157.2	126.0	189.0
115	69.3	51.7	77.5

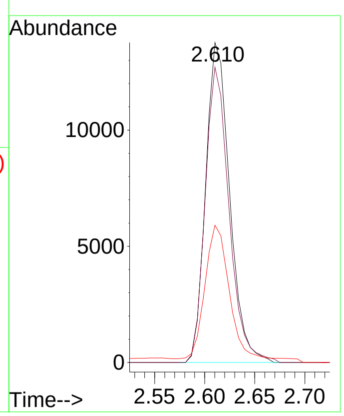




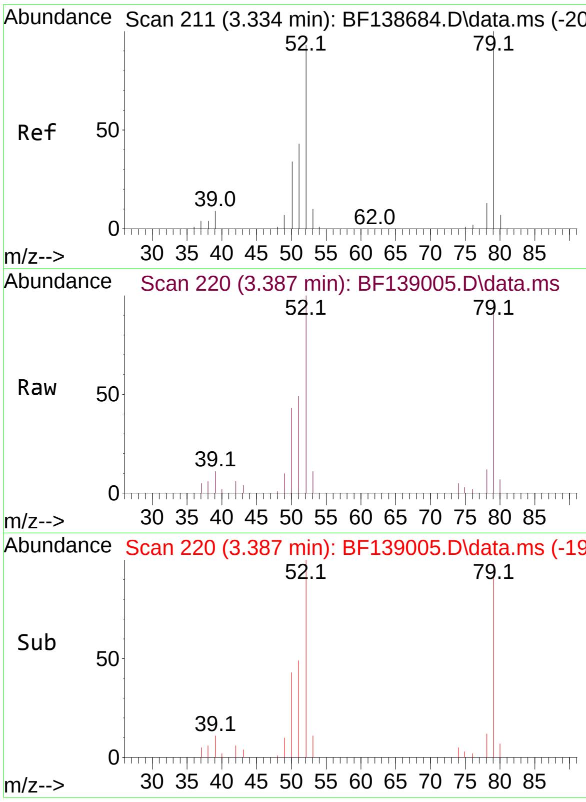
#2
1,4-Dioxane
Concen: 22.898 ng
RT: 2.610 min Scan# 88
Delta R.T. 0.035 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 88 Resp: 23005

Ion	Ratio	Lower	Upper
88	100		
58	91.9	71.6	107.4
43	46.5	28.7	43.1#



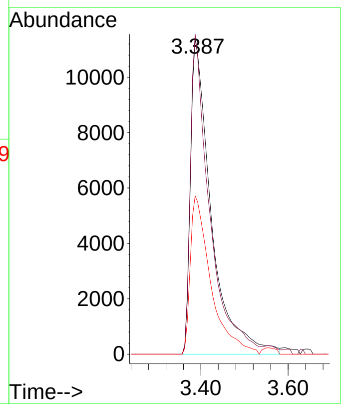
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

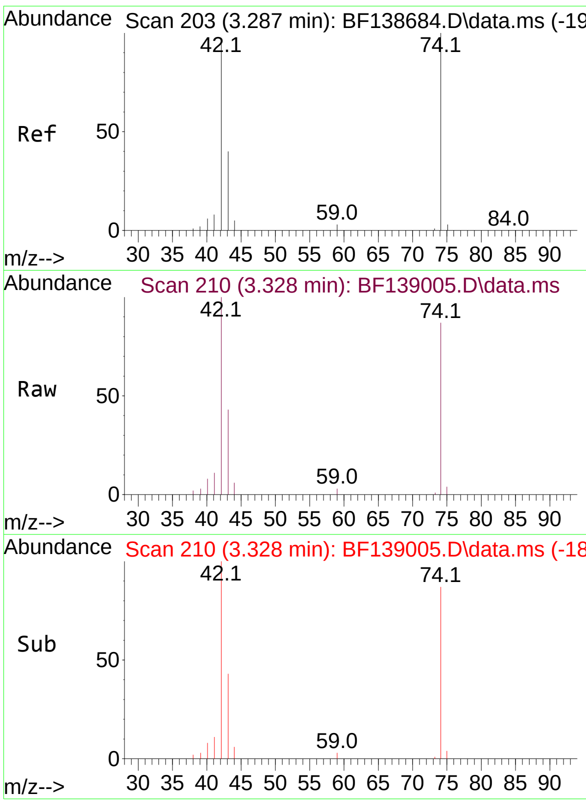


#3
Pyridine
Concen: 15.455 ng
RT: 3.387 min Scan# 2
Delta R.T. 0.053 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 79 Resp: 37615

Ion	Ratio	Lower	Upper
79	100		
52	101.7	74.7	112.1
51	50.3	34.6	51.8

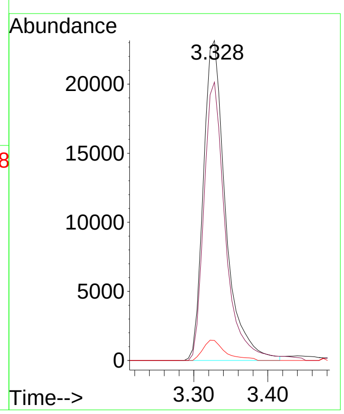




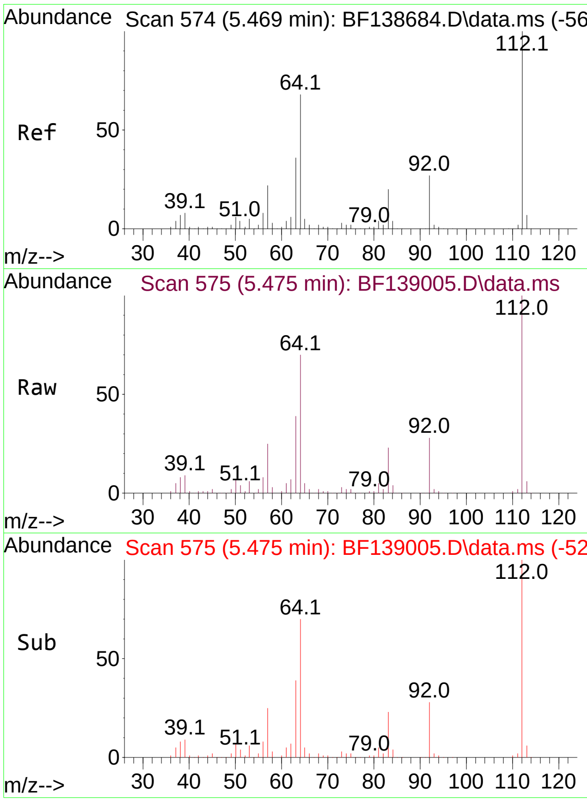
#4
n-Nitrosodimethylamine
Concen: 33.362 ng
RT: 3.328 min Scan# 210
Delta R.T. 0.041 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 42 Resp: 48359

Ion	Ratio	Lower	Upper
42	100		
74	87.0	84.2	126.4
44	6.3	4.9	7.3



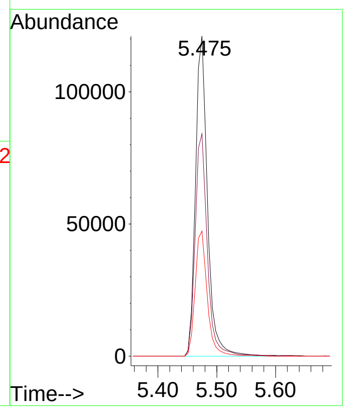
Instrument : BNA_F
ClientSampleId : 924-K1-WP0-0.25-080224MSD

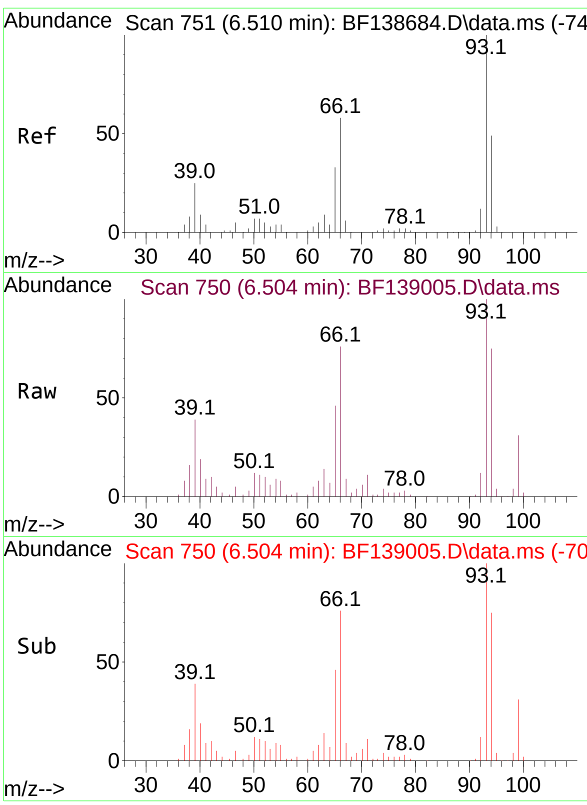


#5
2-Fluorophenol
Concen: 75.059 ng
RT: 5.475 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:112 Resp: 172246

Ion	Ratio	Lower	Upper
112	100		
64	69.5	54.2	81.4
63	39.1	28.7	43.1

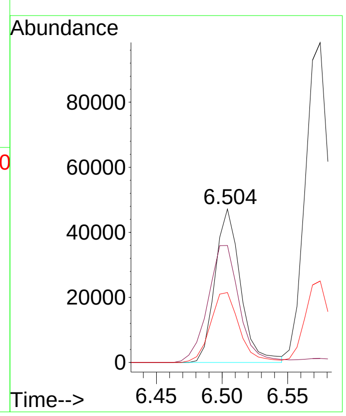




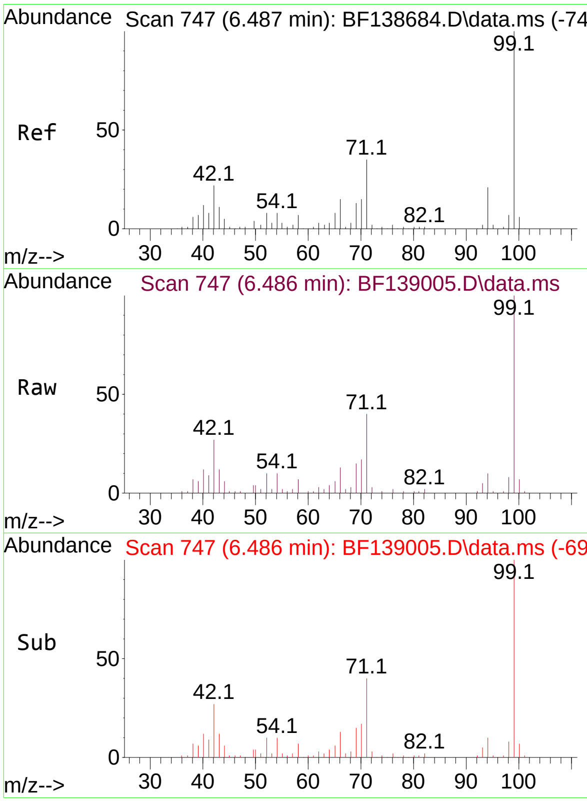
#6
Aniline
Concen: 23.268 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 93 Resp: 63933

Ion	Ratio	Lower	Upper
93	100		
66	76.2	46.9	70.3#
65	45.6	26.5	39.7#



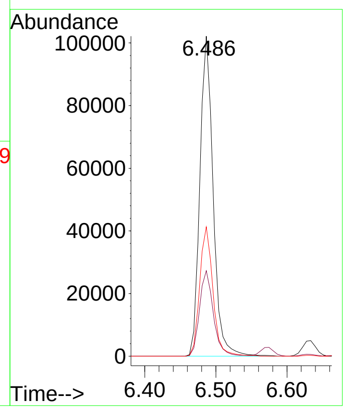
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

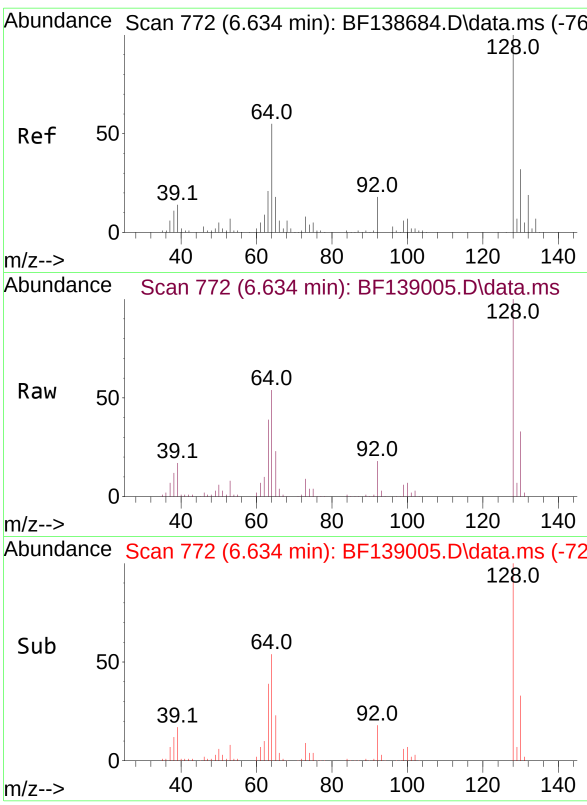


#7
Phenol-d6
Concen: 43.219 ng
RT: 6.486 min Scan# 74
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 99 Resp: 133158

Ion	Ratio	Lower	Upper
99	100		
42	26.7	17.4	26.0#
71	40.4	28.1	42.1

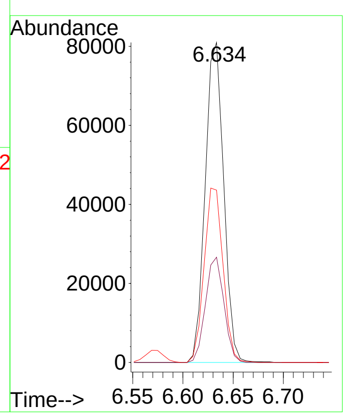




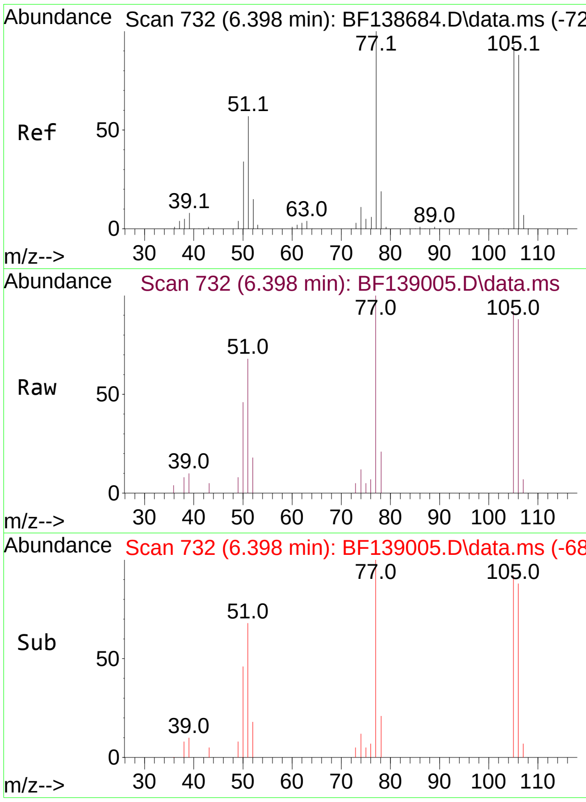
#8
2-Chlorophenol
Concen: 43.136 ng
RT: 6.634 min Scan# 772
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:128 Resp: 104148

Ion	Ratio	Lower	Upper
128	100		
130	32.9	12.0	52.0
64	53.8	36.3	76.3



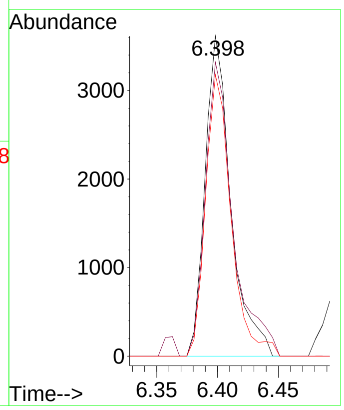
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

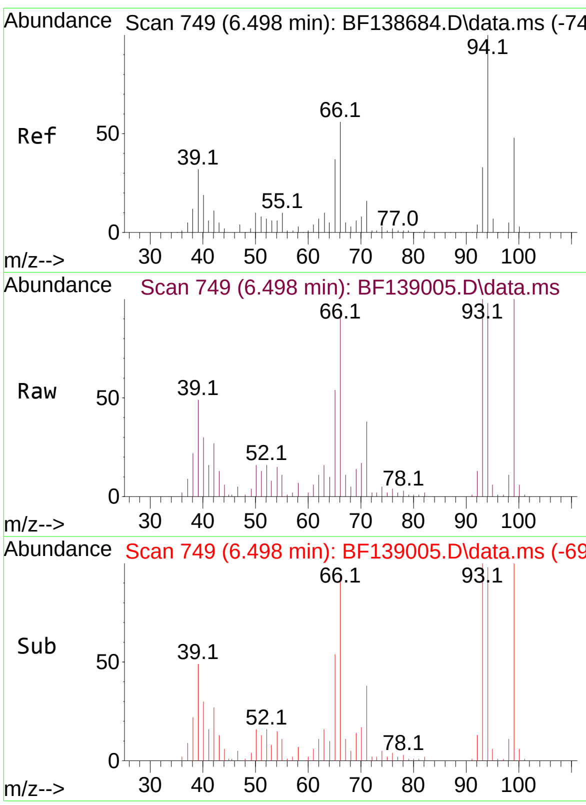


#9
Benzaldehyde
Concen: 2.892 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 77 Resp: 5341

Ion	Ratio	Lower	Upper
77	100		
105	91.8	72.9	112.9
106	87.9	68.4	108.4

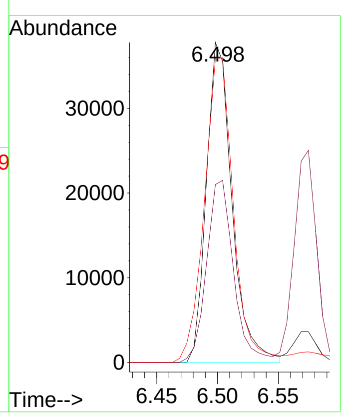




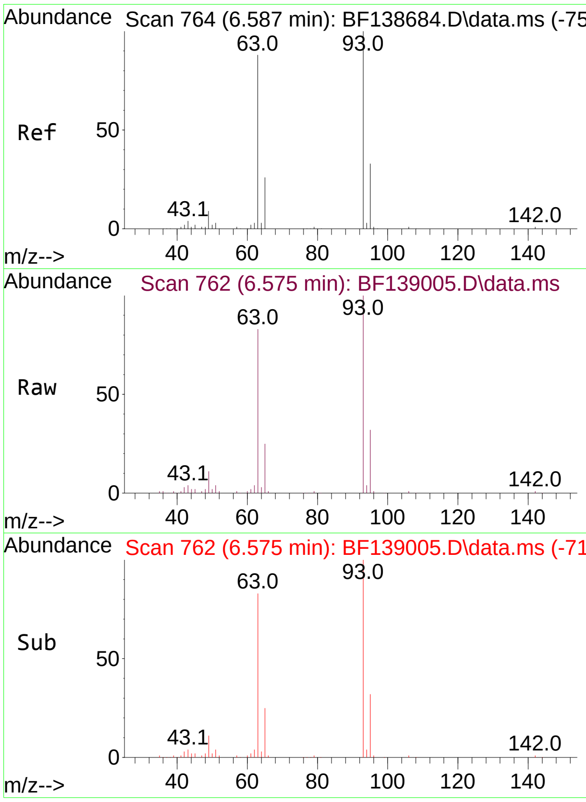
#10
Phenol
Concen: 17.070 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 94 Resp: 55375

Ion	Ratio	Lower	Upper
94	100		
65	55.6	16.9	56.9
66	95.1	36.5	76.5#



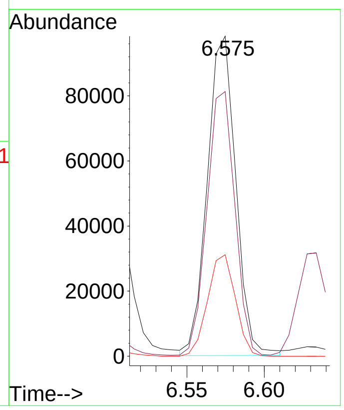
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

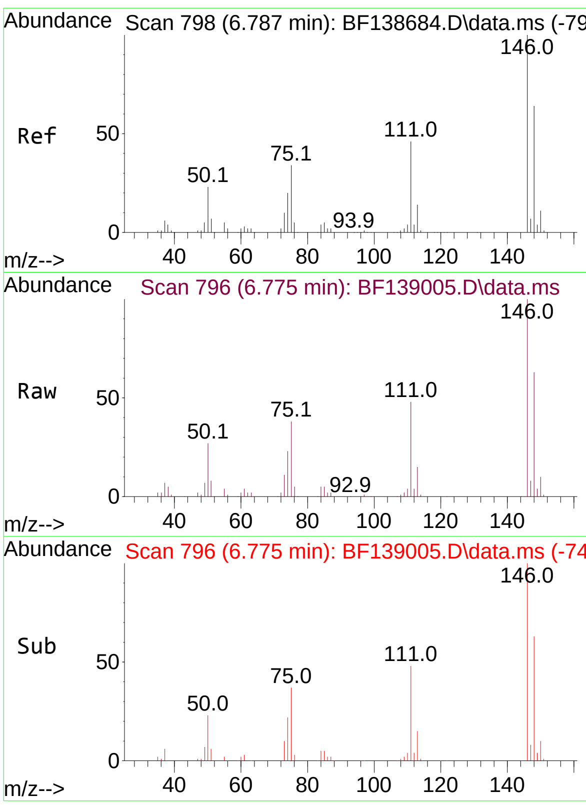


#11
bis(2-Chloroethyl)ether
Concen: 50.473 ng
RT: 6.575 min Scan# 7(
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 93 Resp: 125998

Ion	Ratio	Lower	Upper
93	100		
63	82.7	65.3	105.3
95	31.7	12.4	52.4

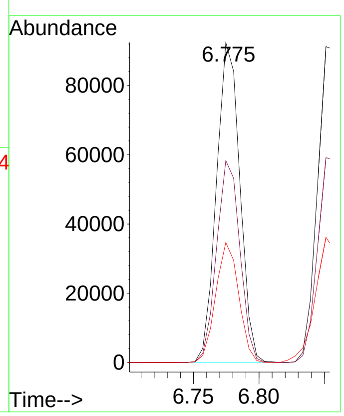




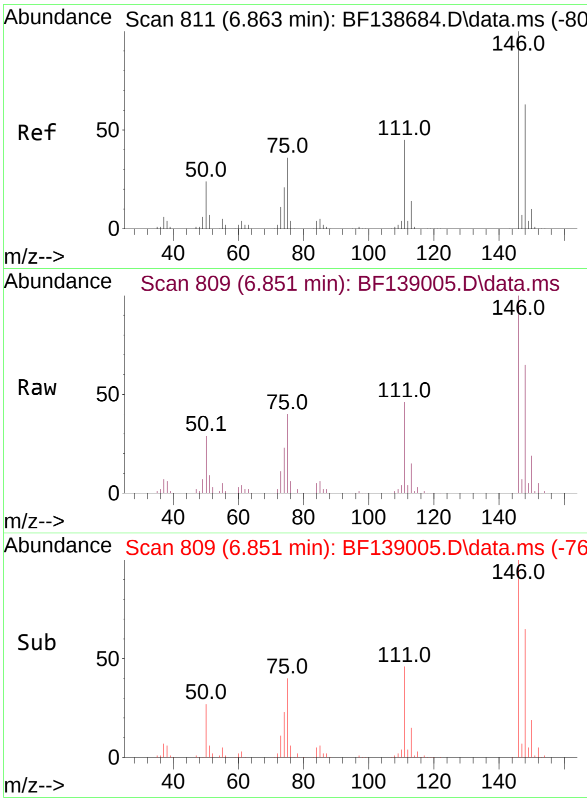
#12
1,3-Dichlorobenzene
Concen: 42.416 ng
RT: 6.775 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:146 Resp: 114635

Ion	Ratio	Lower	Upper
146	100		
148	63.1	51.2	76.8
75	37.5	27.4	41.2



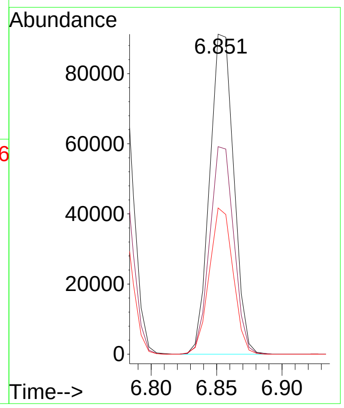
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

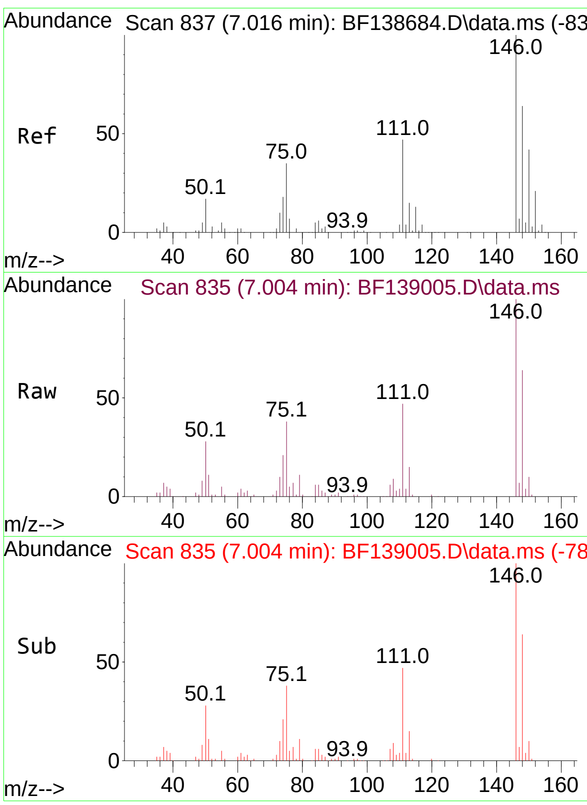


#13
1,4-Dichlorobenzene
Concen: 42.886 ng
RT: 6.851 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:146 Resp: 116971

Ion	Ratio	Lower	Upper
146	100		
148	64.8	50.2	75.2
111	45.7	35.9	53.9

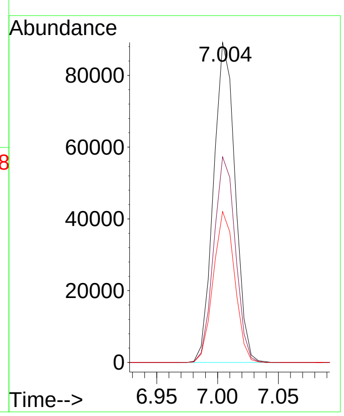




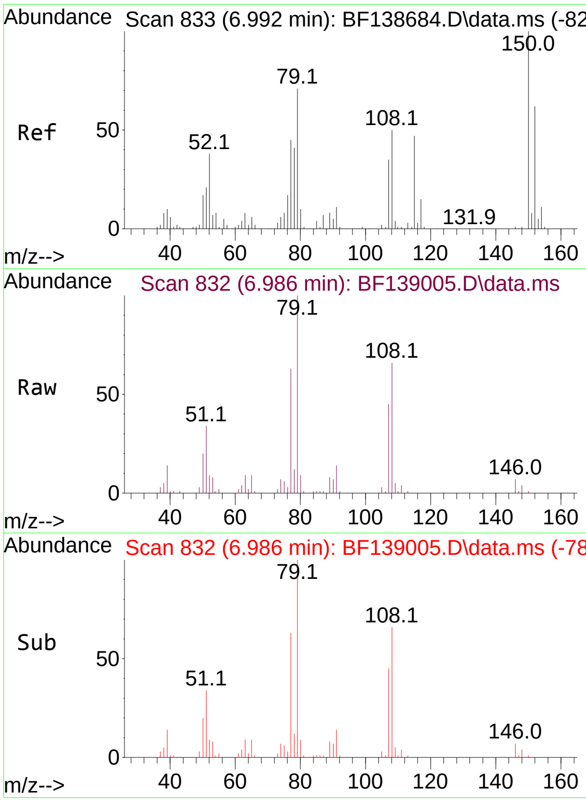
#14
1,2-Dichlorobenzene
Concen: 43.347 ng
RT: 7.004 min Scan# 835
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:146 Resp: 110492

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.8	76.2
111	47.2	37.4	56.2



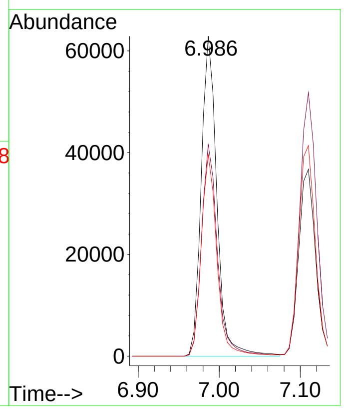
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

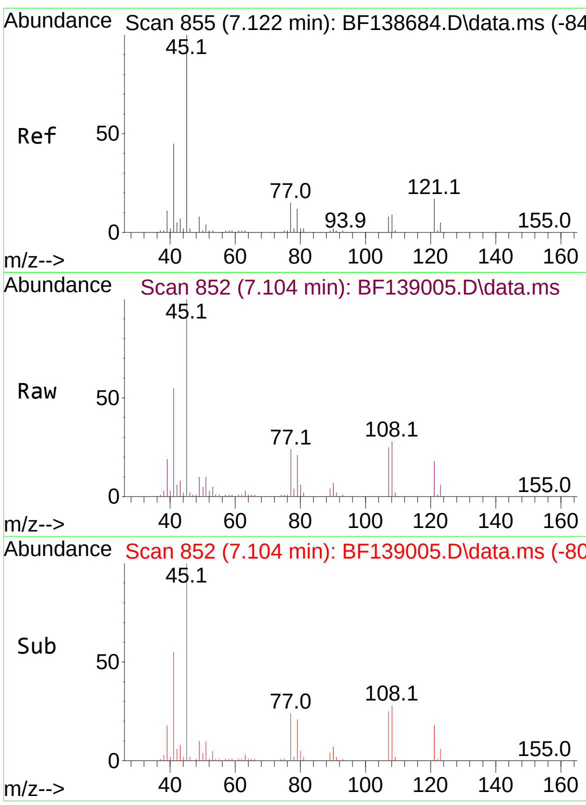


#15
Benzyl Alcohol
Concen: 38.069 ng
RT: 6.986 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 79 Resp: 84537

Ion	Ratio	Lower	Upper
79	100		
108	66.1	56.6	85.0
77	63.0	50.3	75.5

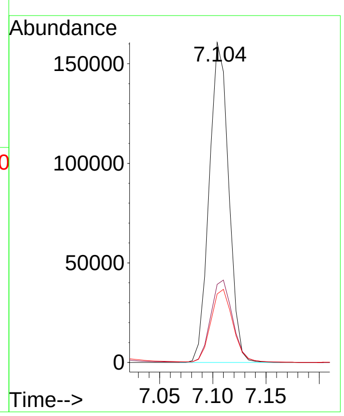




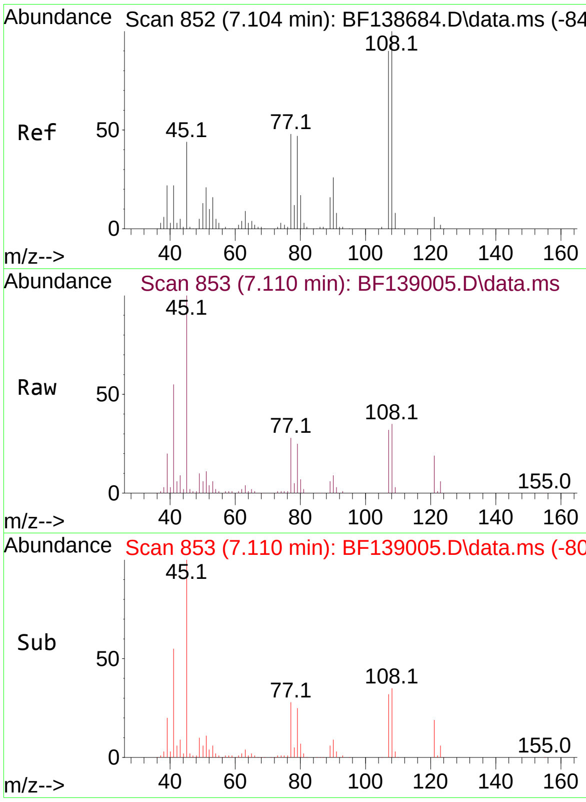
#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.870 ng
RT: 7.104 min Scan# 852
Delta R.T. -0.018 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 45 Resp: 205652

Ion	Ratio	Lower	Upper
45	100		
77	24.4	0.0	34.9
79	21.4	0.0	32.2



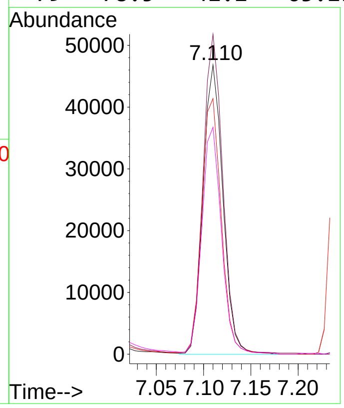
Instrument : BNA_F
ClientSampleId : 924-K1-WP0-0.25-080224MSD

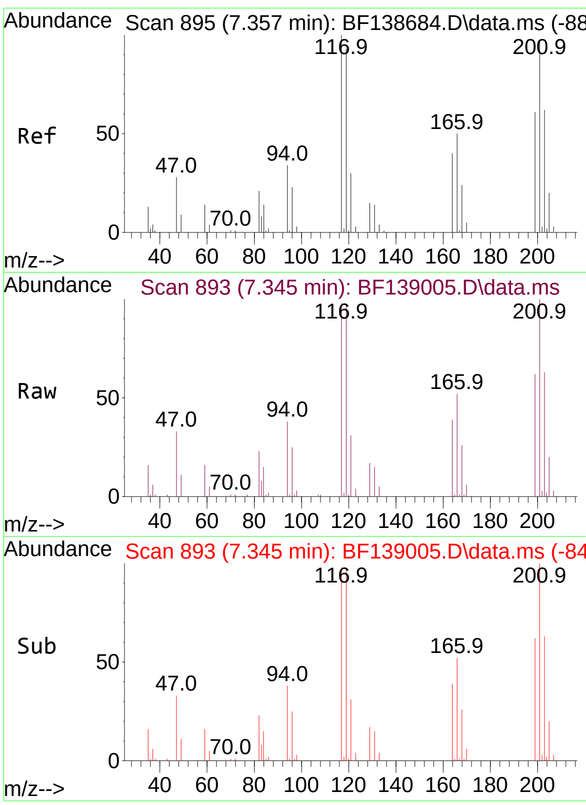


#17
2-Methylphenol
Concen: 34.328 ng
RT: 7.110 min Scan# 8!
Delta R.T. 0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:107 Resp: 68440

Ion	Ratio	Lower	Upper
107	100		
108	110.6	89.2	133.8
77	88.4	43.0	64.4#
79	78.5	42.2	63.2#

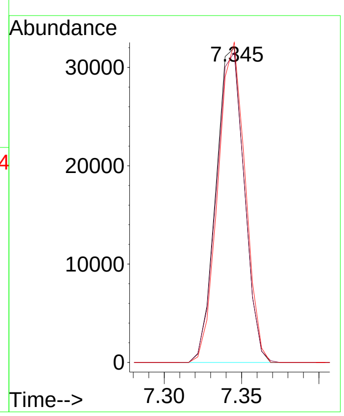




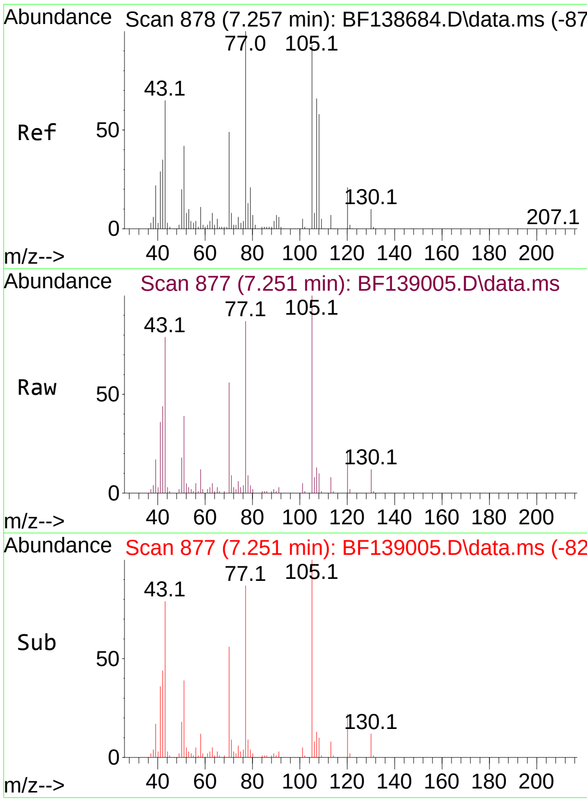
#18
Hexachloroethane
Concen: 39.496 ng
RT: 7.345 min Scan# 893
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:117 Resp: 40549

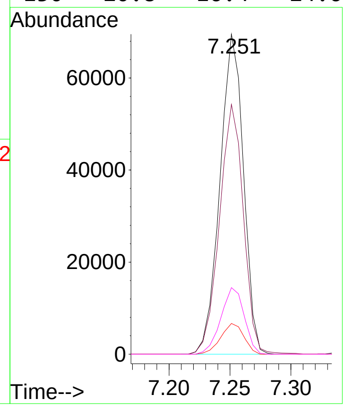
Ion	Ratio	Lower	Upper
117	100		
119	98.7	74.6	111.8
201	101.8	77.2	115.8

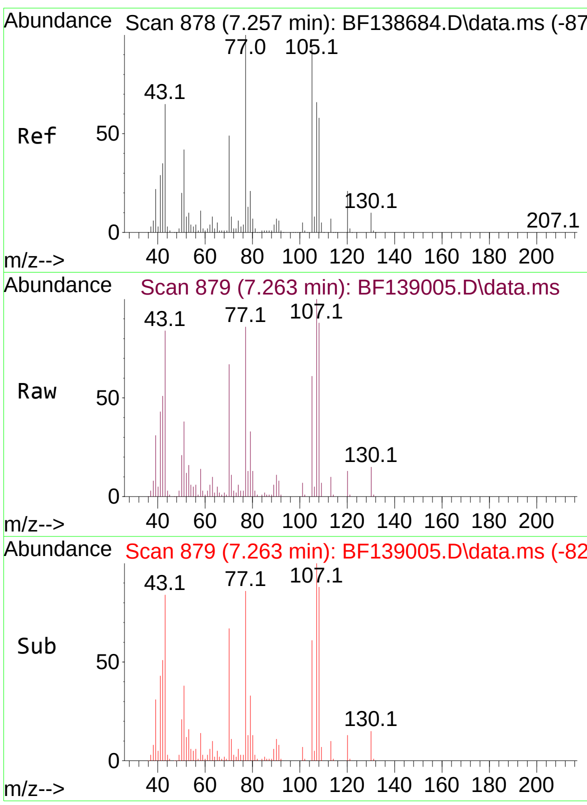


Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

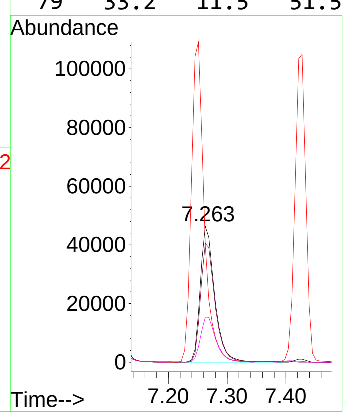



```
#19
n-Nitroso-di-n-propylamine
Concen:   50.203 ng
RT:   7.251 min  Scan# 8
Delta R.T.  -0.006 min
Lab File:   BF139005.D
Acq: 14 Aug 2024  20:47

Tgt Ion: 70 Resp:   93422
Ion  Ratio  Lower  Upper
 70  100
 42   78.0   57.4   86.0
101    9.6    7.5   11.3
130   20.8   16.4   24.6
```

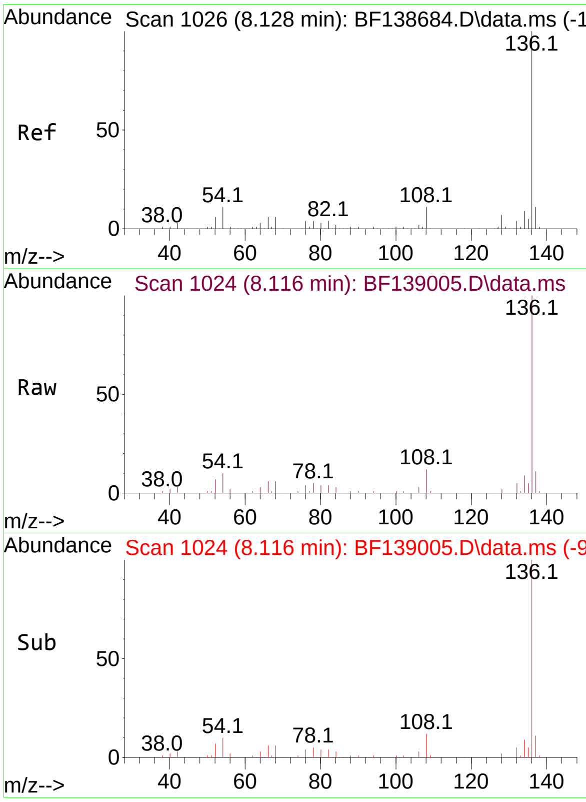





```
#20
3+4-Methylphenols
Concen:   31.137 ng
RT:   7.263 min  Scan# 879
Delta R.T.  0.006 min
Lab File:   BF139005.D
Acq: 14 Aug 2024  20:47

Tgt Ion:107 Resp:   79648
Ion  Ratio  Lower  Upper
107  100
108   87.5   68.2  108.2
 77   85.9  132.1  172.1#
 79   33.2   11.5   51.5
```



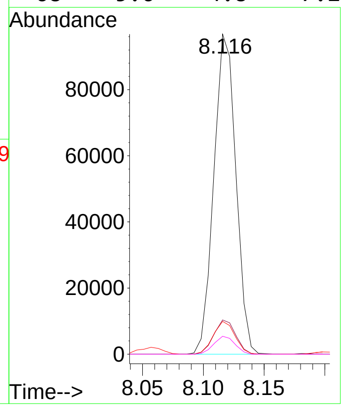
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

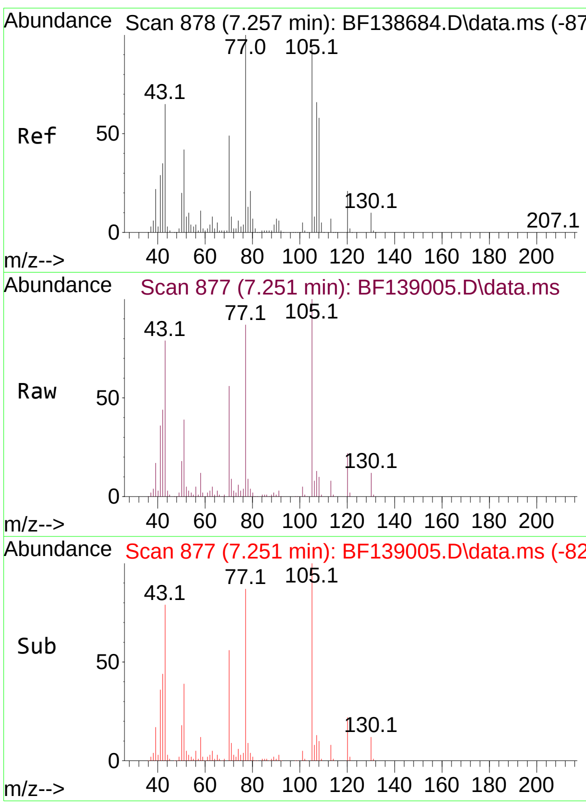


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:136 Resp: 122342

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	10.2	8.6	12.8
68	5.6	4.8	7.2

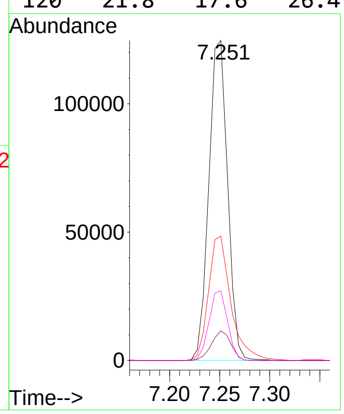




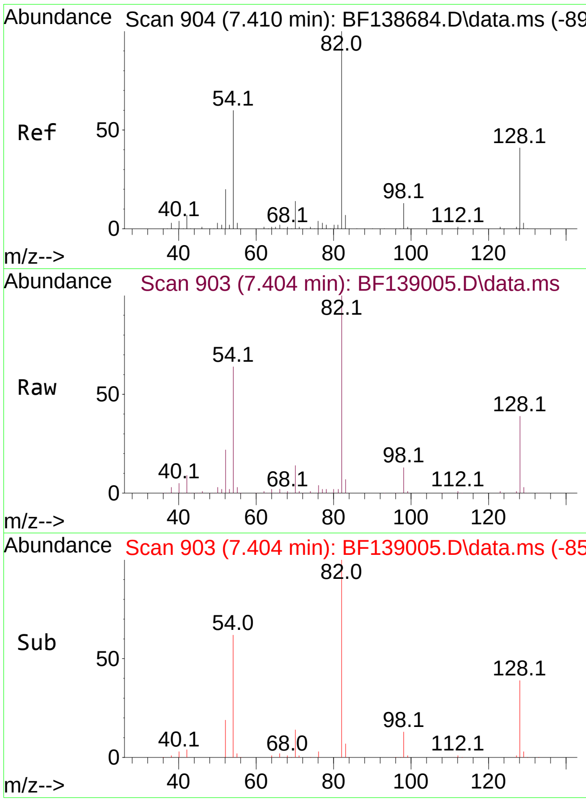
#22
Acetophenone
Concen: 54.455 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:105 Resp: 163123

Ion	Ratio	Lower	Upper
105	100		
71	9.3	7.2	10.8
51	38.8	35.9	53.9
120	21.8	17.6	26.4



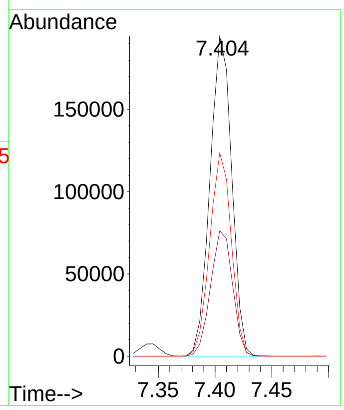
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

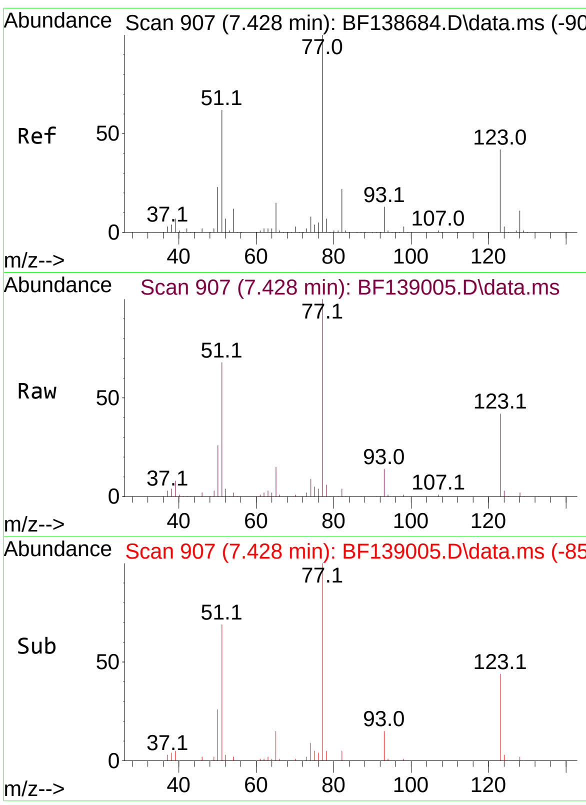


#23
Nitrobenzene-d5
Concen: 103.901 ng
RT: 7.404 min Scan# 90
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 82 Resp: 259995

Ion	Ratio	Lower	Upper
82	100		
128	39.3	32.8	49.2
54	63.5	48.3	72.5

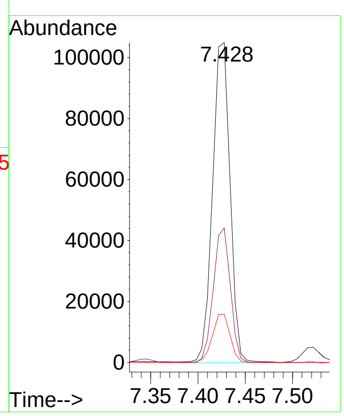




#24
Nitrobenzene
Concen: 53.032 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

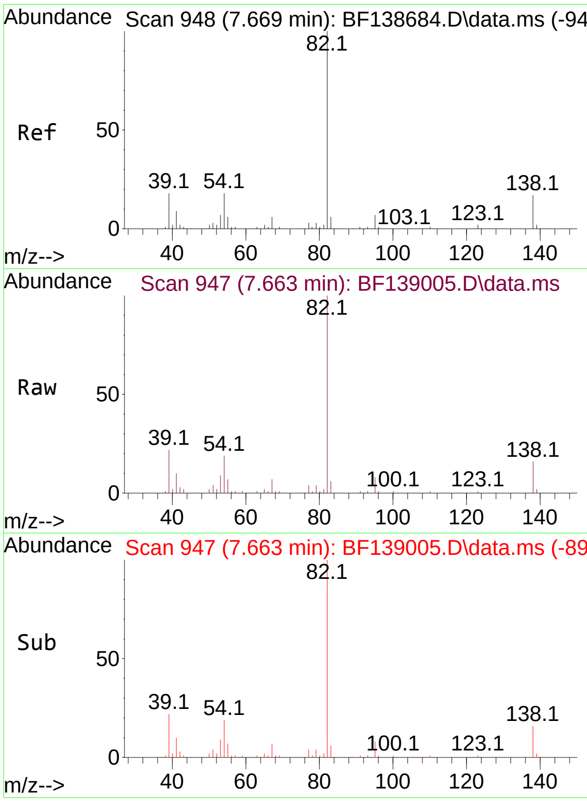
Tgt Ion: 77 Resp: 135036

Ion	Ratio	Lower	Upper
77	100		
123	42.0	33.3	49.9
65	15.1	11.9	17.9



Sample Results: **BF139005.D**

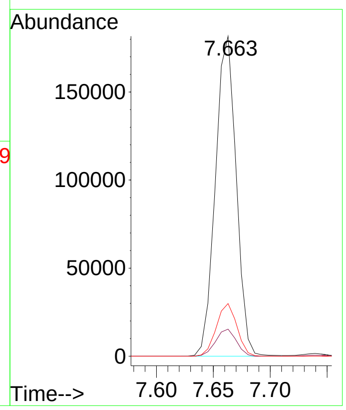
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

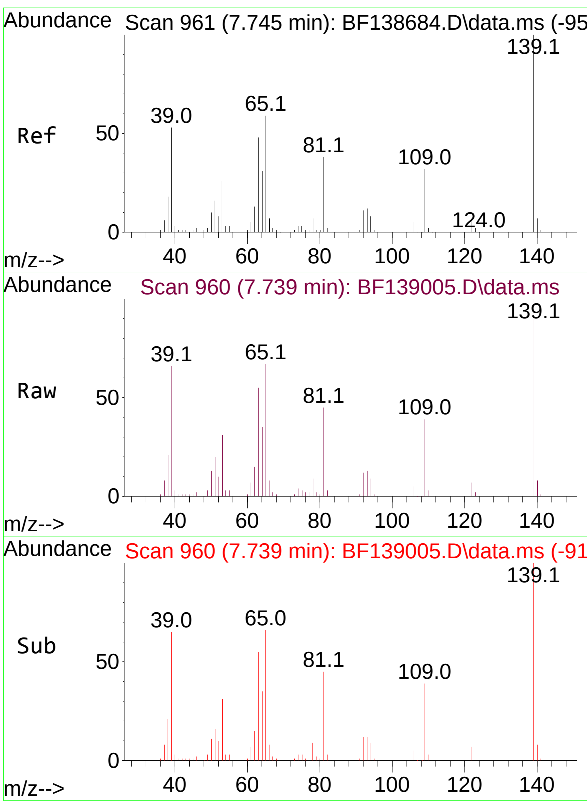


#25
Isophorone
Concen: 54.155 ng
RT: 7.663 min   Scan# 94
Delta R.T.   -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024   20:47

Tgt Ion: 82 Resp: 231397

Ion	Ratio	Lower	Upper
82	100		
95	8.4	5.7	8.5
138	16.4	13.7	20.5

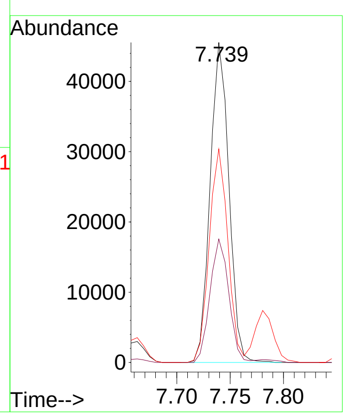




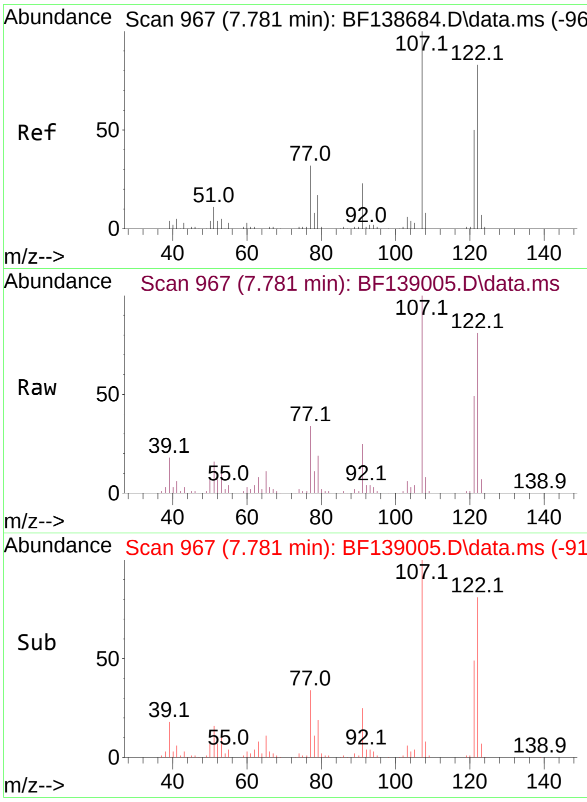
#26
2-Nitrophenol
Concen: 50.899 ng
RT: 7.739 min   Scan# 960
Delta R.T.   -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024   20:47

Tgt Ion:139 Resp: 55760

Ion	Ratio	Lower	Upper
139	100		
109	38.5	25.9	38.9
65	66.7	47.0	70.6



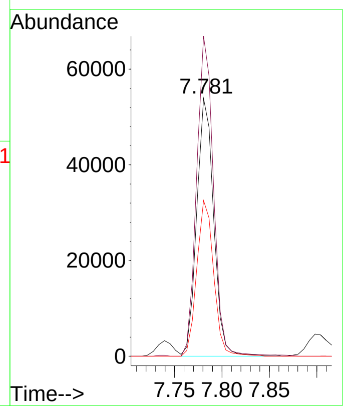
Instrument : BNA_F
ClientSampleId : 924-K1-WP0-0.25-080224MSD

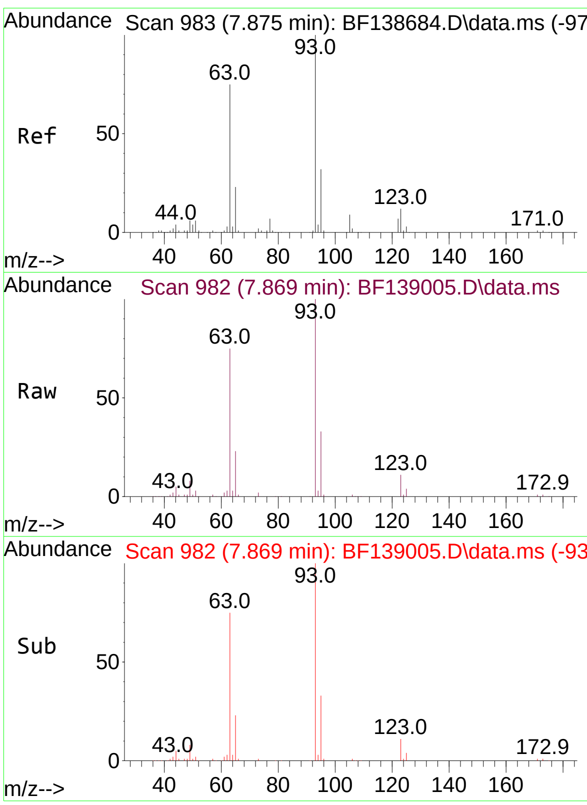


#27
2,4-Dimethylphenol
Concen: 51.348 ng
RT: 7.781 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:122 Resp: 67303

Ion	Ratio	Lower	Upper
122	100		
107	124.1	95.0	142.6
121	60.4	47.3	70.9

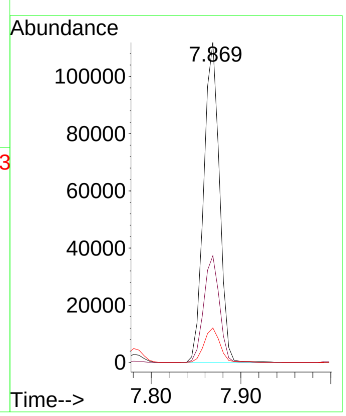




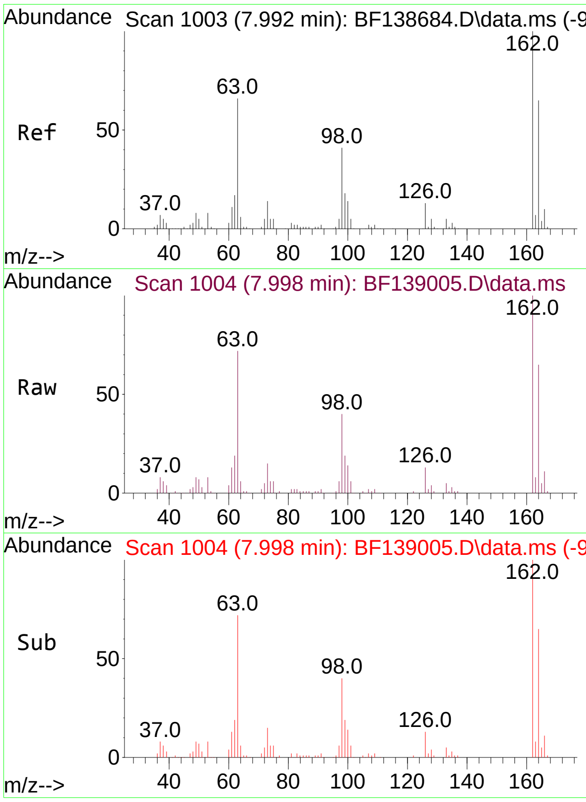
#28
bis(2-Chloroethoxy)methane
Concen: 52.256 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 93 Resp: 135972

Ion	Ratio	Lower	Upper
93	100		
95	33.4	25.8	38.8
123	10.8	9.4	14.0



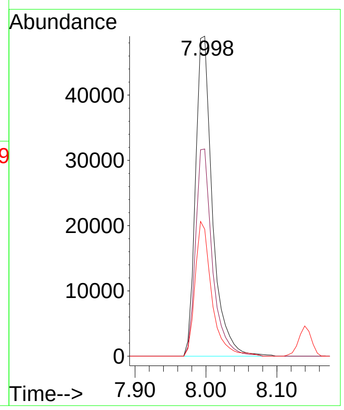
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

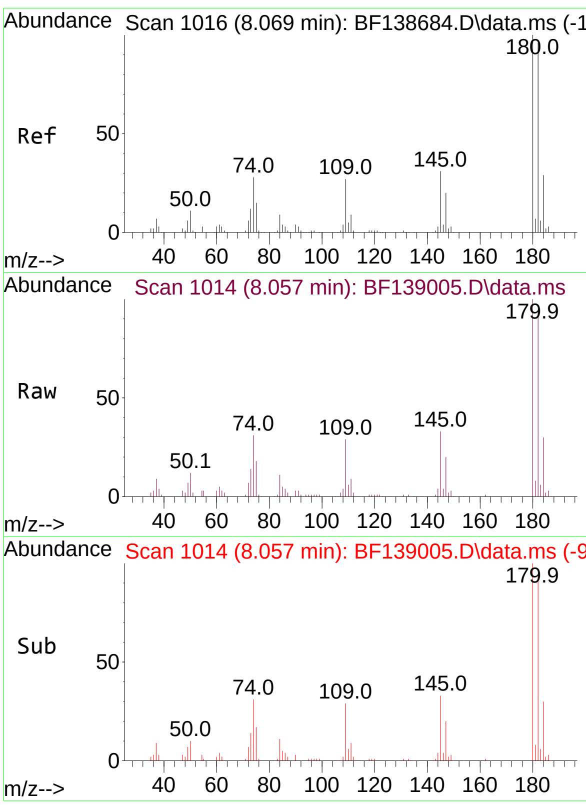


#29
2,4-Dichlorophenol
Concen: 48.446 ng
RT: 7.998 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:162 Resp: 81596

Ion	Ratio	Lower	Upper
162	100		
164	64.7	44.7	84.7
98	39.7	20.8	60.8

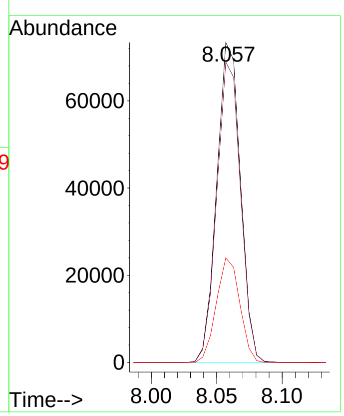




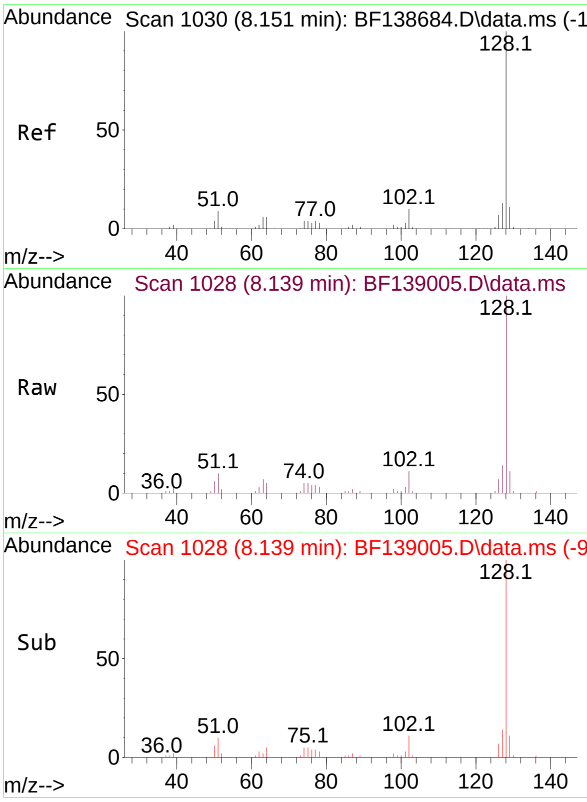
#30
1,2,4-Trichlorobenzene
Concen: 47.627 ng
RT: 8.057 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:180 Resp: 92571

Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.9	115.3
145	32.7	25.0	37.4



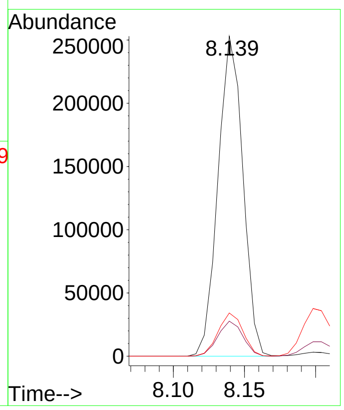
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

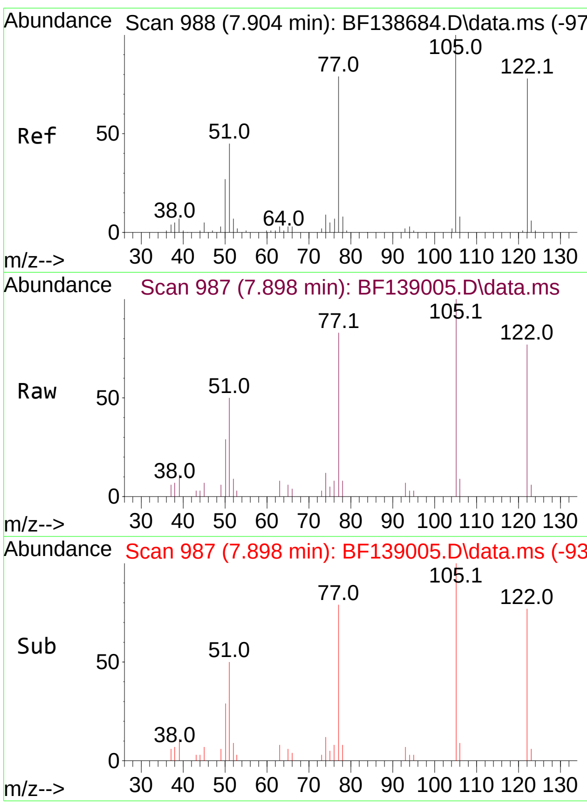


#31
Naphthalene
Concen: 47.784 ng
RT: 8.139 min Scan# 10
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:128 Resp: 307717

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.5	10.6	16.0

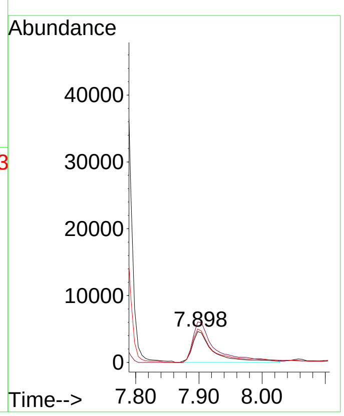




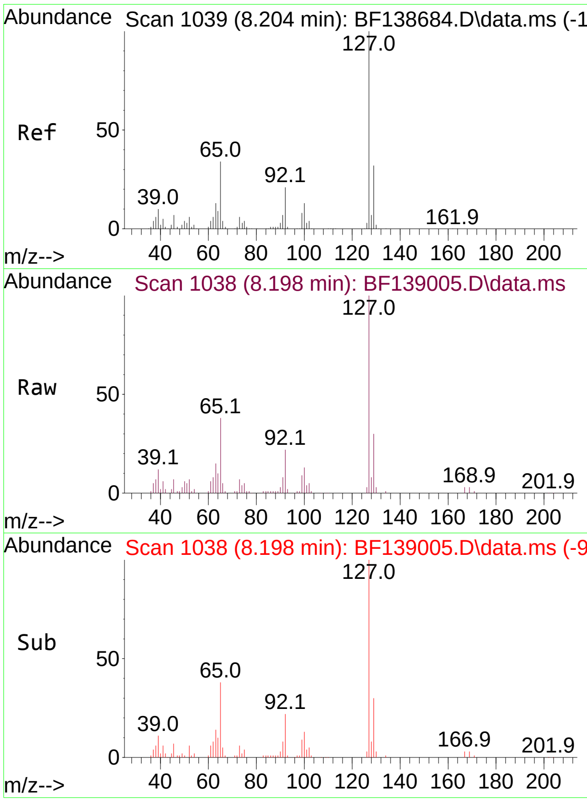
#32
Benzoic acid
Concen: 10.616 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:122 Resp: 10938

Ion	Ratio	Lower	Upper
122	100		
105	130.6	106.7	146.7
77	108.1	81.1	121.1



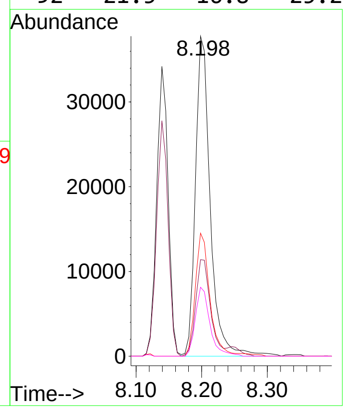
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

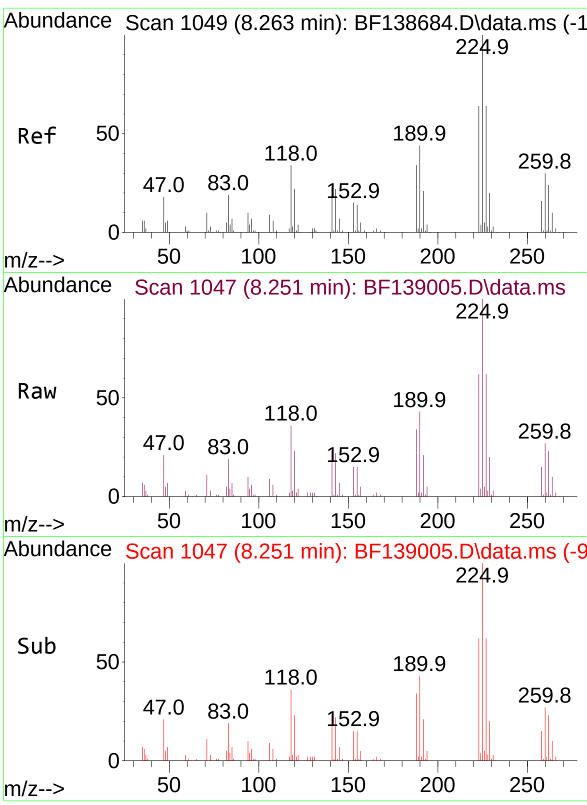


#33
4-Chloroaniline
Concen: 27.559 ng
RT: 8.198 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:127 Resp: 59573

Ion	Ratio	Lower	Upper
127	100		
129	30.1	25.9	38.9
65	38.5	27.6	41.4
92	21.5	16.8	25.2

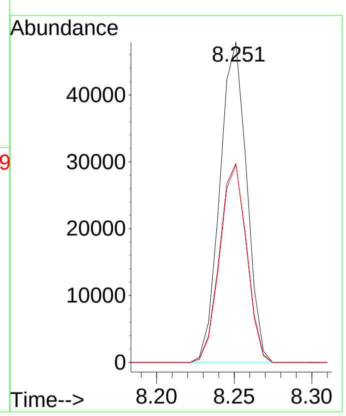




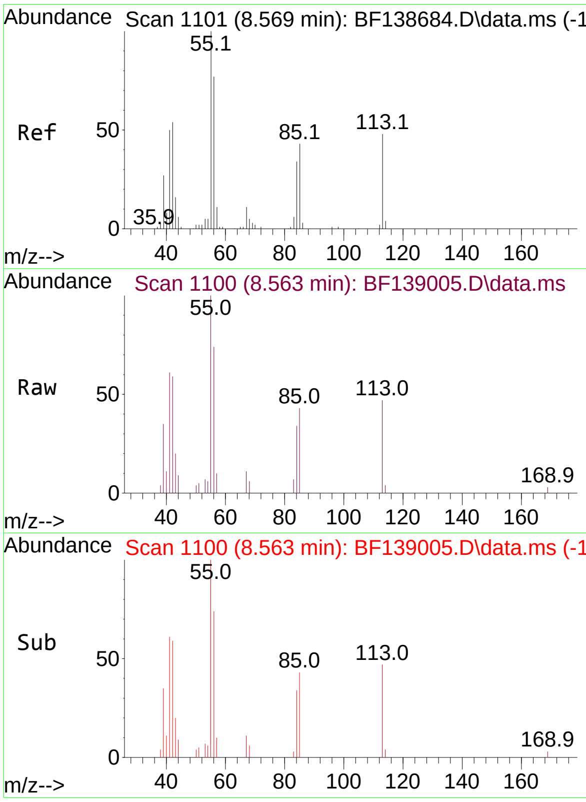
#34
Hexachlorobutadiene
Concen: 48.787 ng
RT: 8.251 min Scan# 1047
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:225 Resp: 57436

Ion	Ratio	Lower	Upper
225	100		
223	62.1	51.2	76.8
227	61.9	51.1	76.7



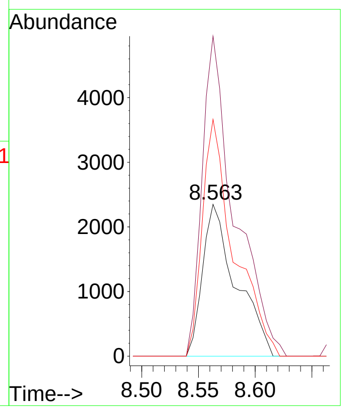
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

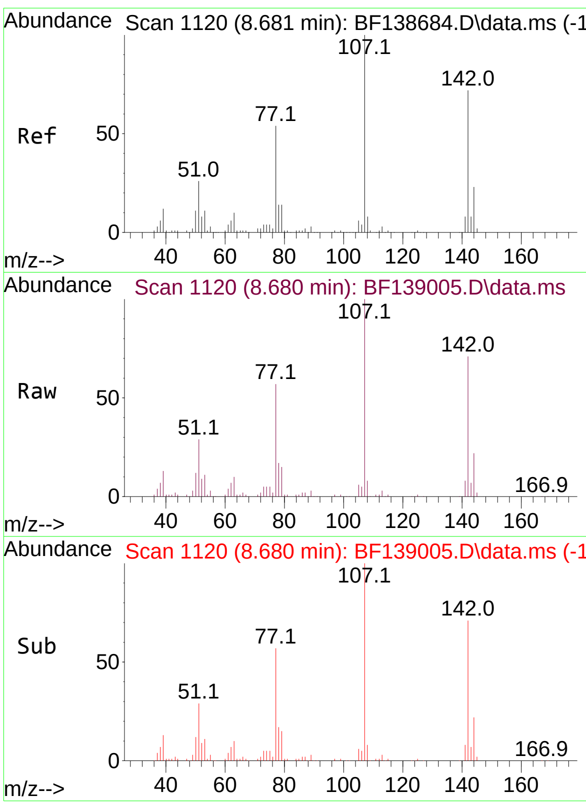


#35
Caprolactam
Concen: 9.595 ng
RT: 8.563 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:113 Resp: 4822

Ion	Ratio	Lower	Upper
113	100		
55	210.8	186.7	226.7
56	155.9	138.9	178.9

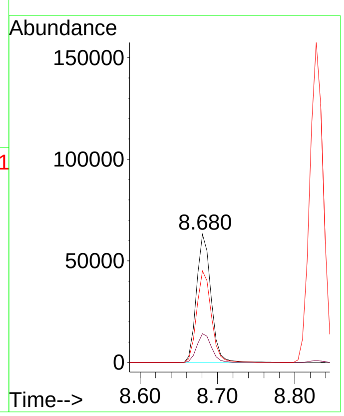




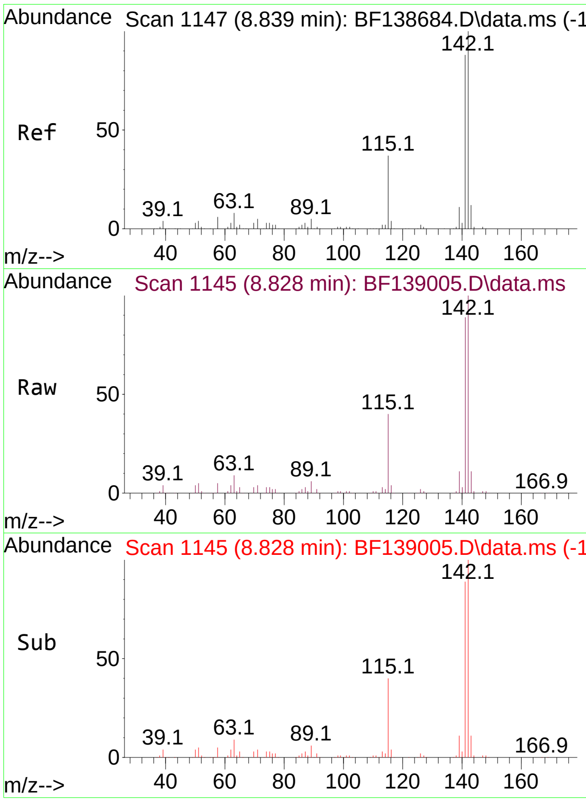
#36
4-Chloro-3-methylphenol
Concen: 42.646 ng
RT: 8.680 min Scan# 1120
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:107 Resp: 82087

Ion	Ratio	Lower	Upper
107	100		
144	22.5	18.2	27.2
142	71.4	57.4	86.2



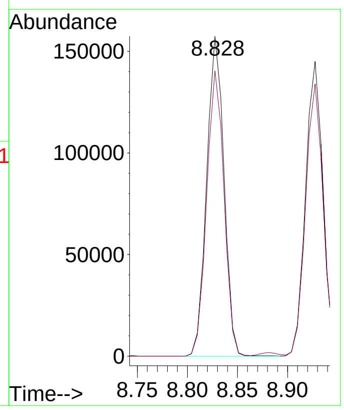
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

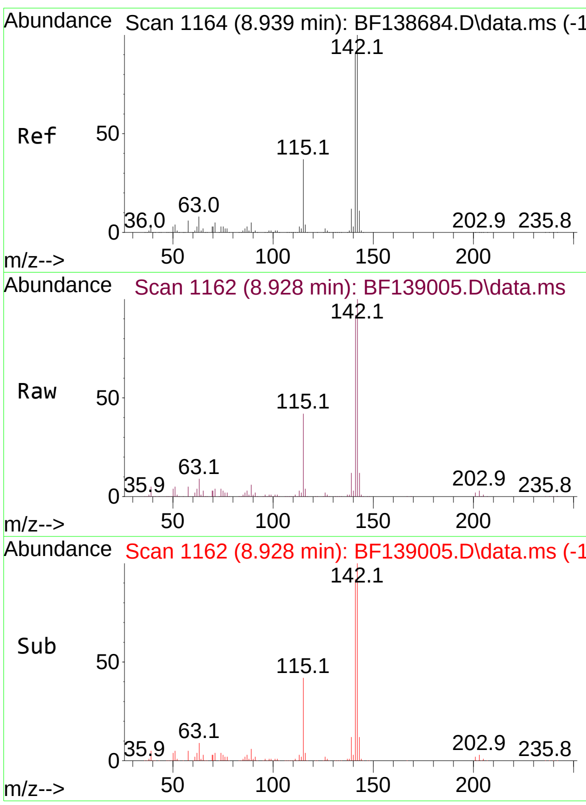


#37
2-Methylnaphthalene
Concen: 46.746 ng
RT: 8.828 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:142 Resp: 190117

Ion	Ratio	Lower	Upper
142	100		
141	89.2	70.8	106.2

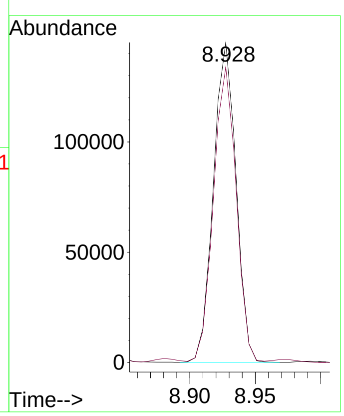




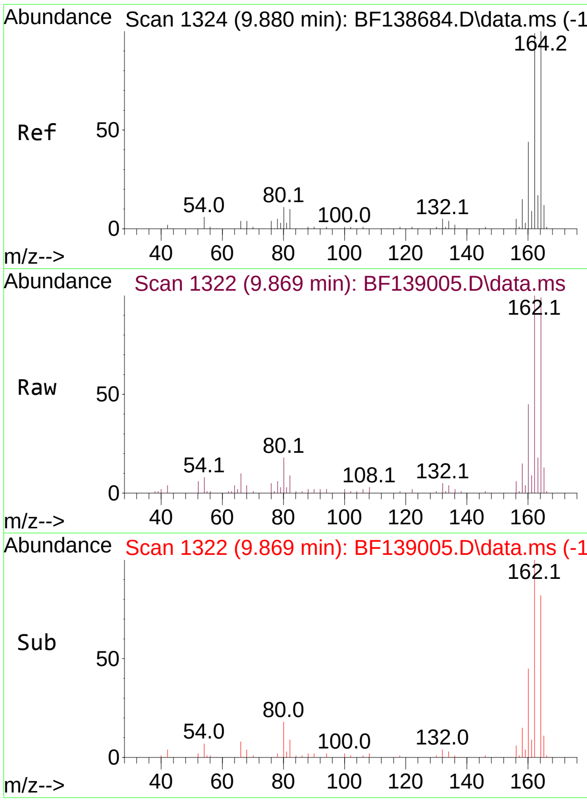
#38
1-Methylnaphthalene
Concen: 43.867 ng
RT: 8.928 min Scan# 1162
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:142 Resp: 174825

Ion	Ratio	Lower	Upper
142	100		
141	92.4	73.1	109.7



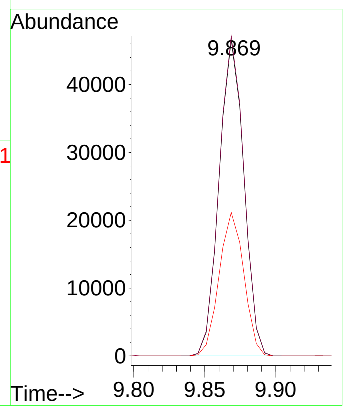
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

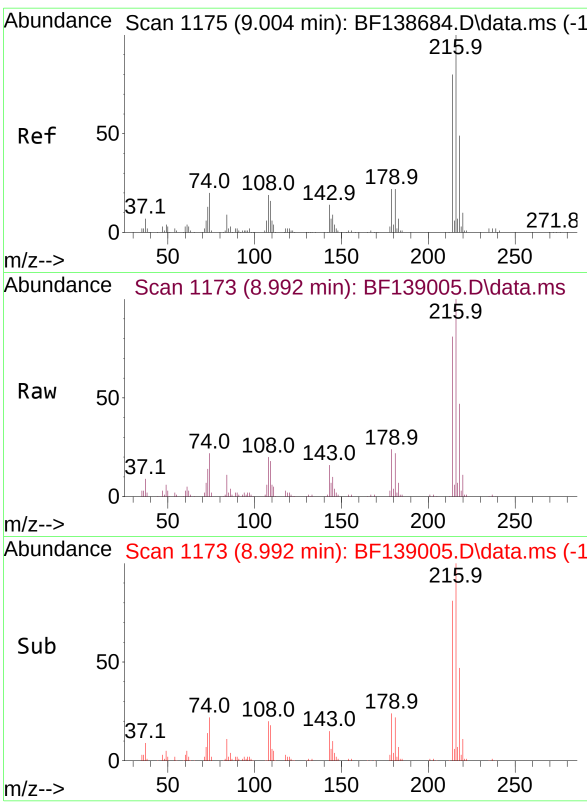


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:164 Resp: 56215

Ion	Ratio	Lower	Upper
164	100		
162	101.3	79.4	119.0
160	45.4	35.1	52.7

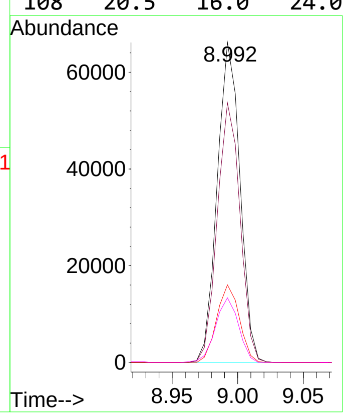




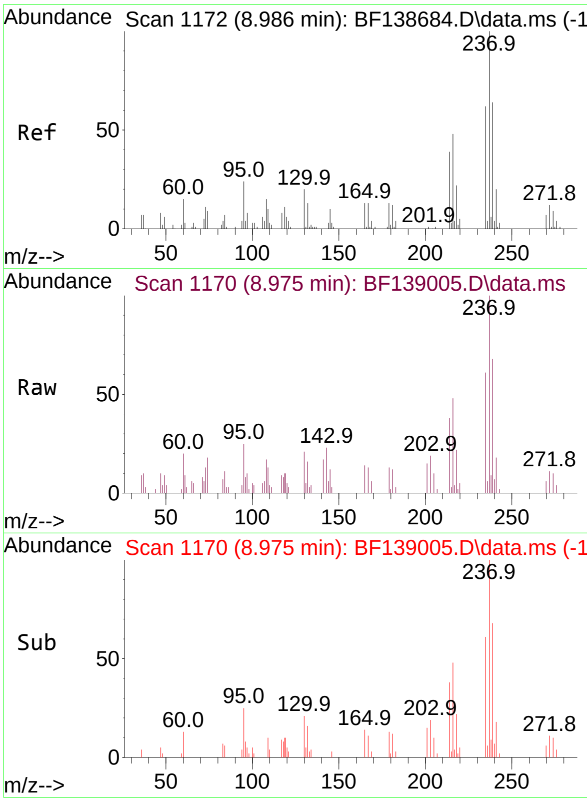
#40
1,2,4,5-Tetrachlorobenzene
Concen: 51.148 ng
RT: 8.992 min Scan# 1173
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:216 Resp: 79872

Ion	Ratio	Lower	Upper
216	100		
214	80.8	63.9	95.9
179	24.1	17.8	26.6
108	20.5	16.0	24.0



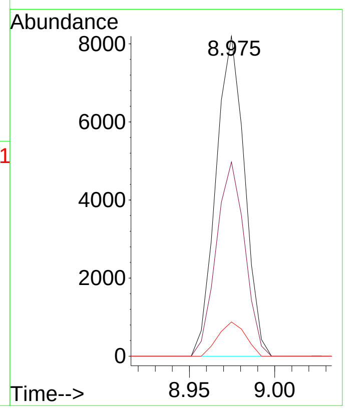
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

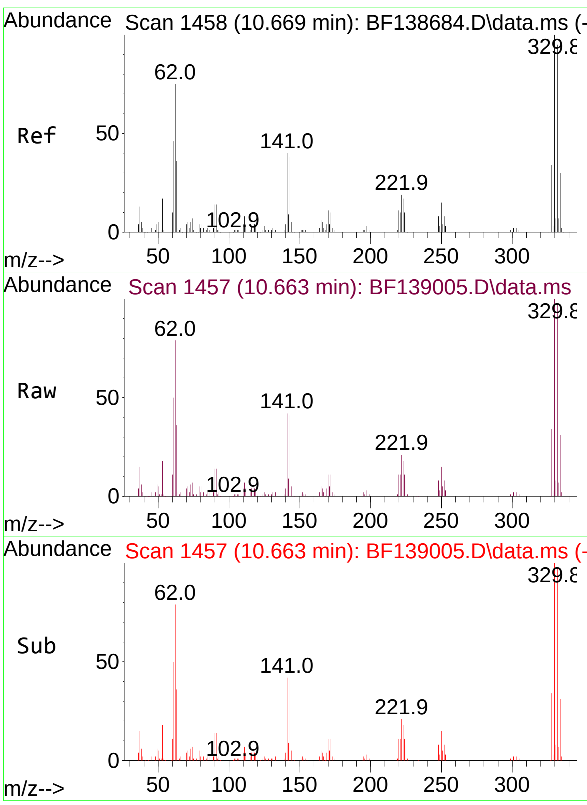


#41
Hexachlorocyclopentadiene
Concen: 28.039 ng
RT: 8.975 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:237 Resp: 9541

Ion	Ratio	Lower	Upper
237	100		
235	60.7	41.8	81.8
272	10.7	0.0	32.2

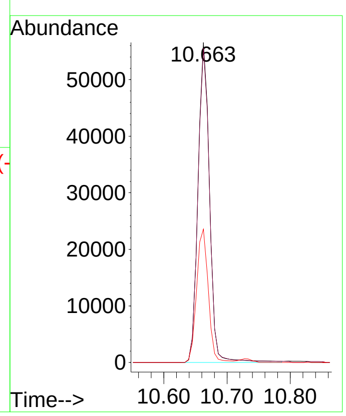




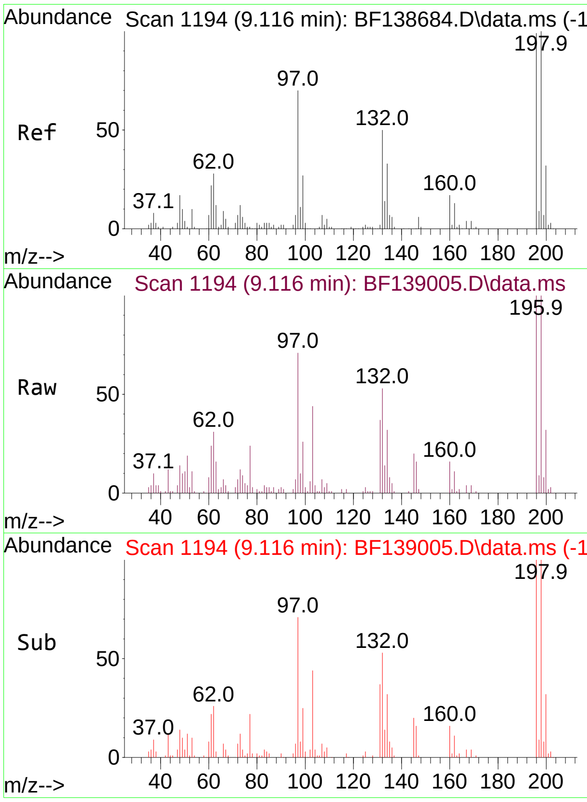
#42
2,4,6-Tribromophenol
Concen: 155.585 ng
RT: 10.663 min Scan# 1457
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:330 Resp: 71643

Ion	Ratio	Lower	Upper
330	100		
332	98.6	76.4	114.6
141	42.1	31.1	46.7



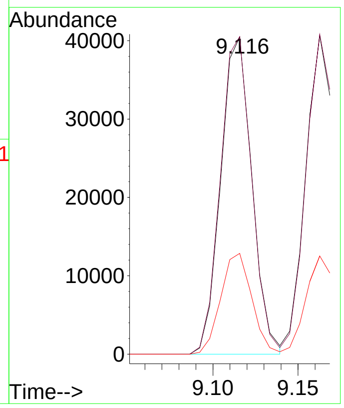
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

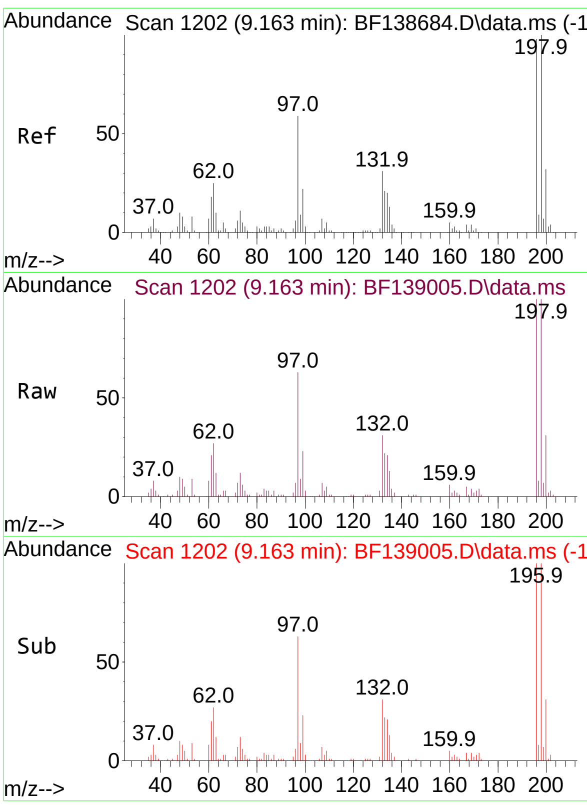


#43
2,4,6-Trichlorophenol
Concen: 54.068 ng
RT: 9.116 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:196 Resp: 51479

Ion	Ratio	Lower	Upper
196	100		
198	100.1	80.5	120.7
200	31.8	25.9	38.9

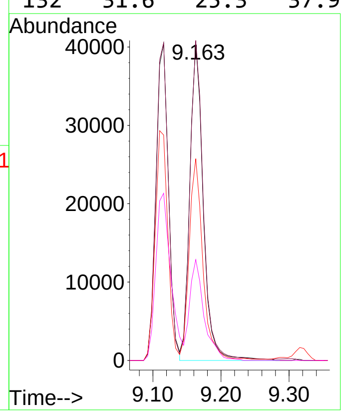




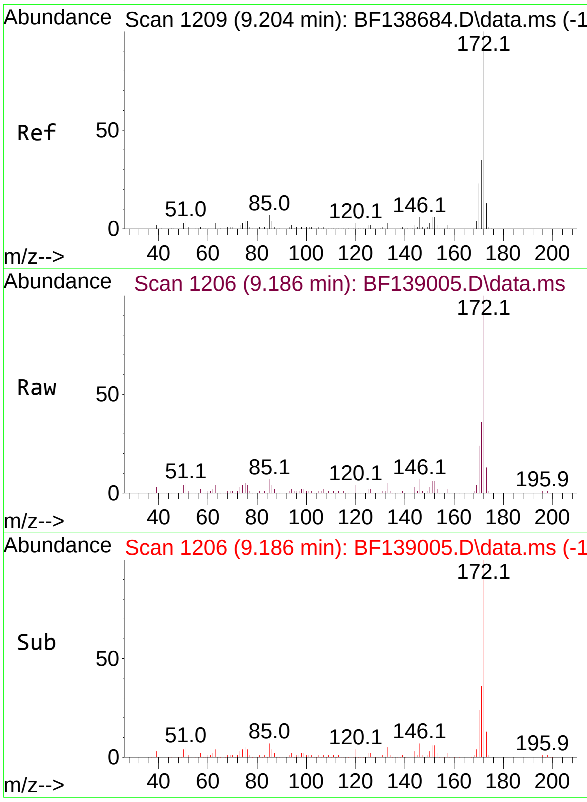
#44
2,4,5-Trichlorophenol
Concen: 53.124 ng
RT: 9.163 min Scan# 1202
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:196 Resp: 55295

Ion	Ratio	Lower	Upper
196	100		
198	100.5	81.2	121.8
97	63.3	47.8	71.6
132	31.6	25.3	37.9



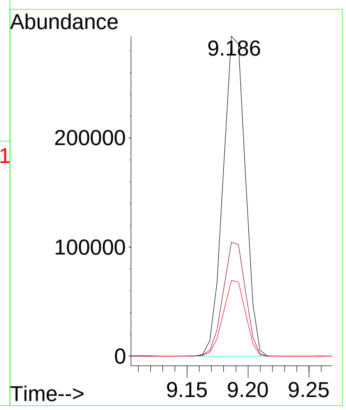
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

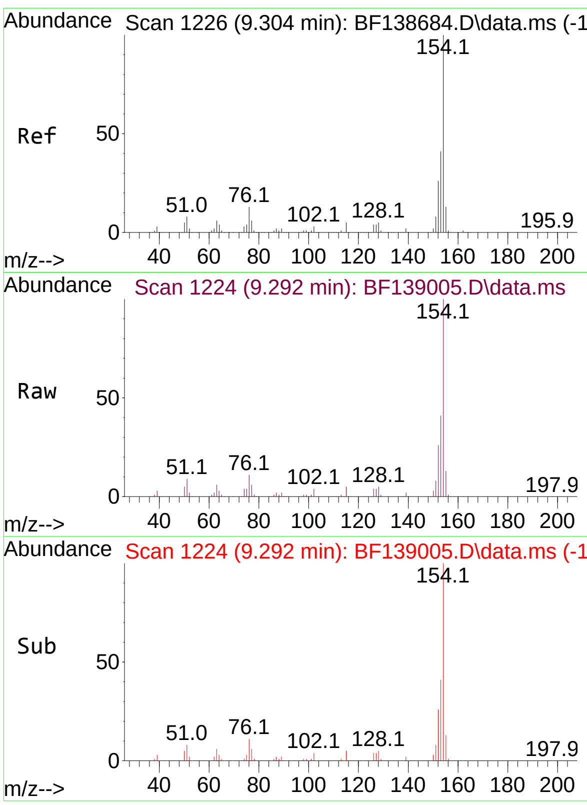


#45
2-Fluorobiphenyl
Concen: 100.065 ng
RT: 9.186 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:172 Resp: 374387

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.3	42.5
170	23.7	18.8	28.2

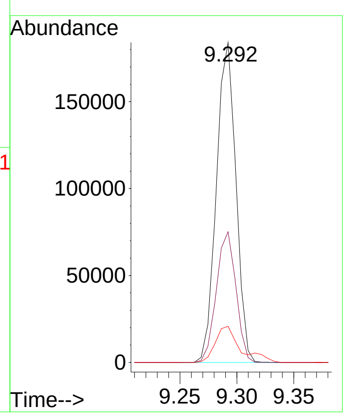




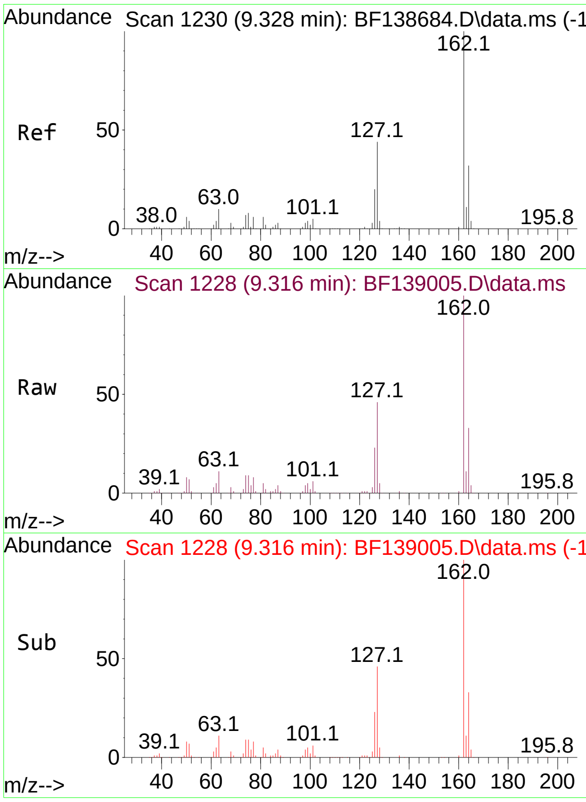
#46
1,1'-Biphenyl
Concen: 49.941 ng
RT: 9.292 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:154 Resp: 219875

Ion	Ratio	Lower	Upper
154	100		
153	40.9	20.8	60.8
76	11.3	0.0	32.8



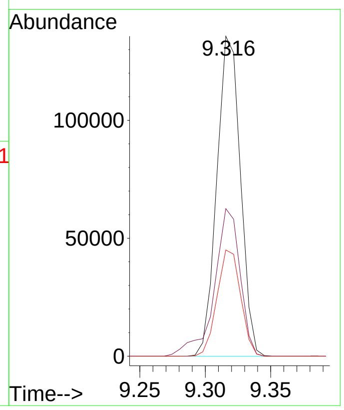
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

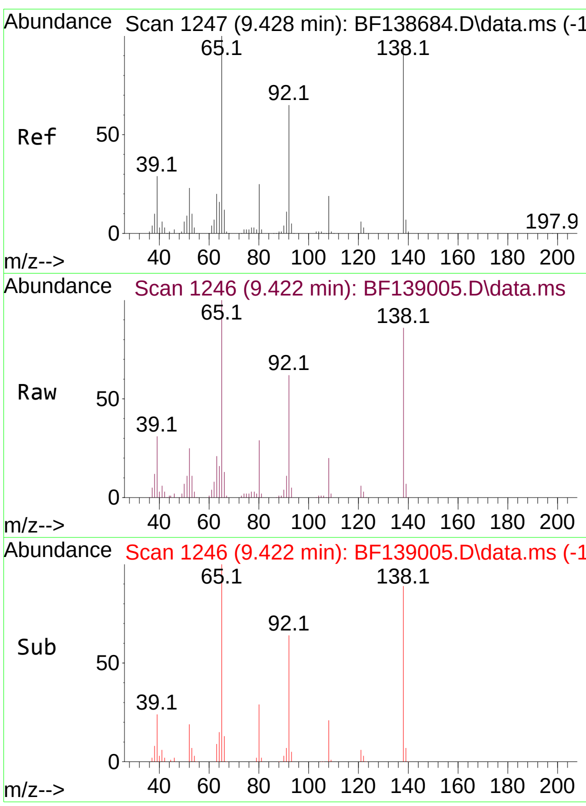


#47
2-Chloronaphthalene
Concen: 51.891 ng
RT: 9.316 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:162 Resp: 169911

Ion	Ratio	Lower	Upper
162	100		
127	46.1	35.4	53.2
164	33.2	25.6	38.4

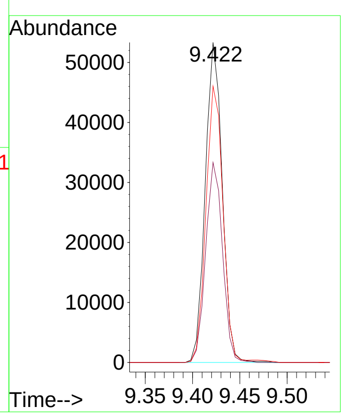




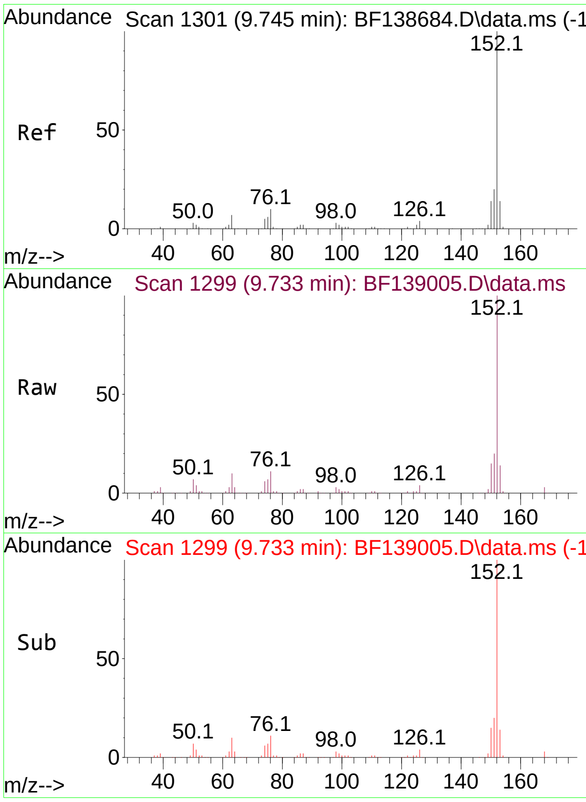
#48
2-Nitroaniline
Concen: 59.940 ng
RT: 9.422 min Scan# 1246
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 65 Resp: 66537

Ion	Ratio	Lower	Upper
65	100		
92	62.5	52.0	78.0
138	86.4	76.2	114.4



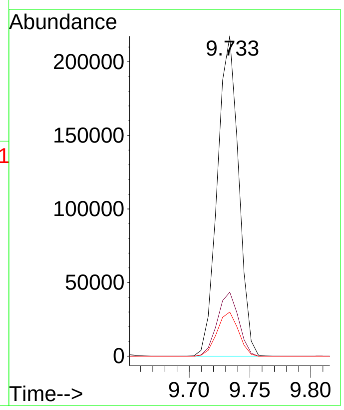
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

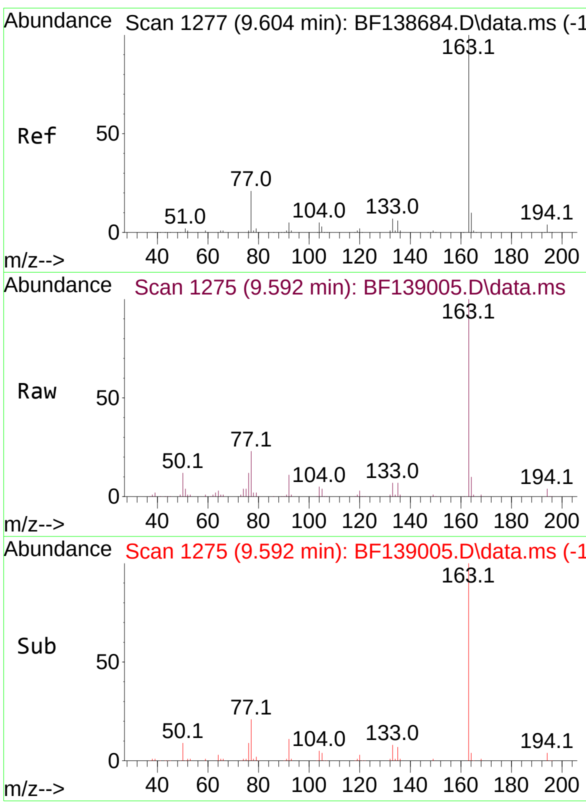


#49
Acenaphthylene
Concen: 56.863 ng
RT: 9.733 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:152 Resp: 264075

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	13.8	11.0	16.4

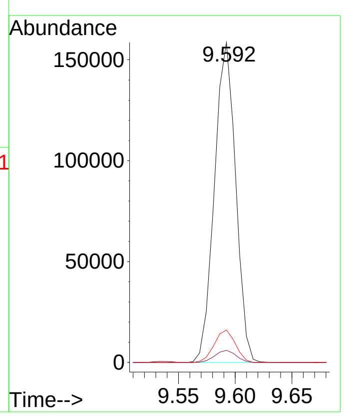




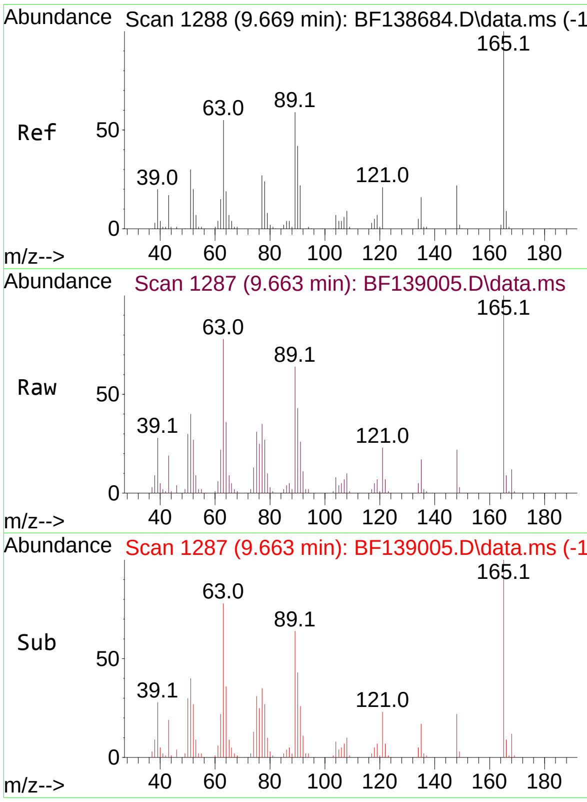
#50
Dimethylphthalate
Concen: 57.537 ng
RT: 9.592 min Scan# 1275
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

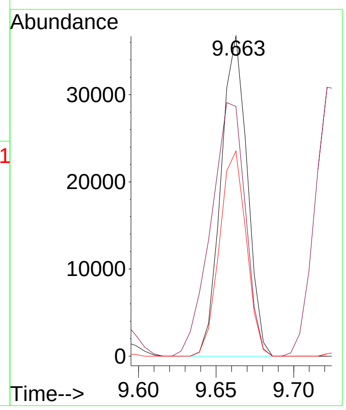
Tgt Ion:163 Resp: 206813

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.1	7.8	11.8



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

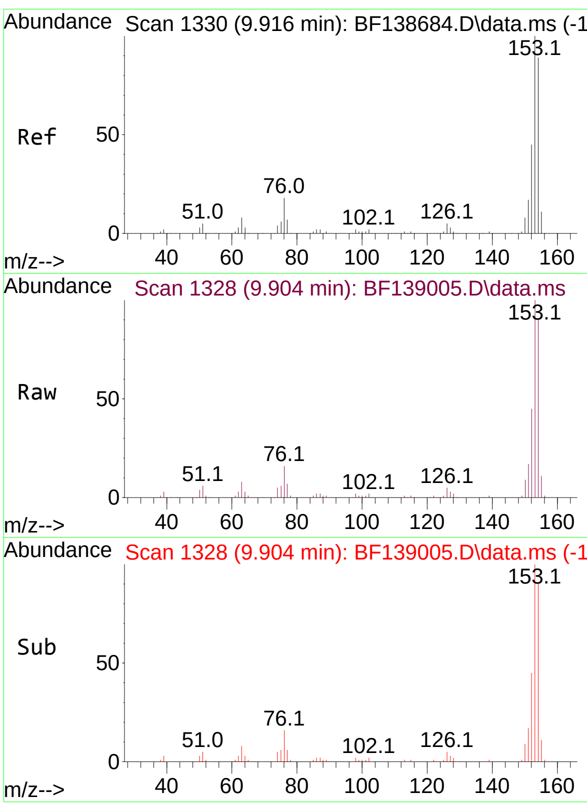


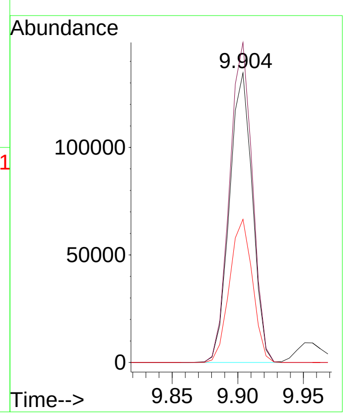


#51
2,6-Dinitrotoluene
Concen: 53.449 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:165 Resp: 43358

Ion	Ratio	Lower	Upper
165	100		
63	78.0	52.0	78.0#
89	64.1	47.0	70.6



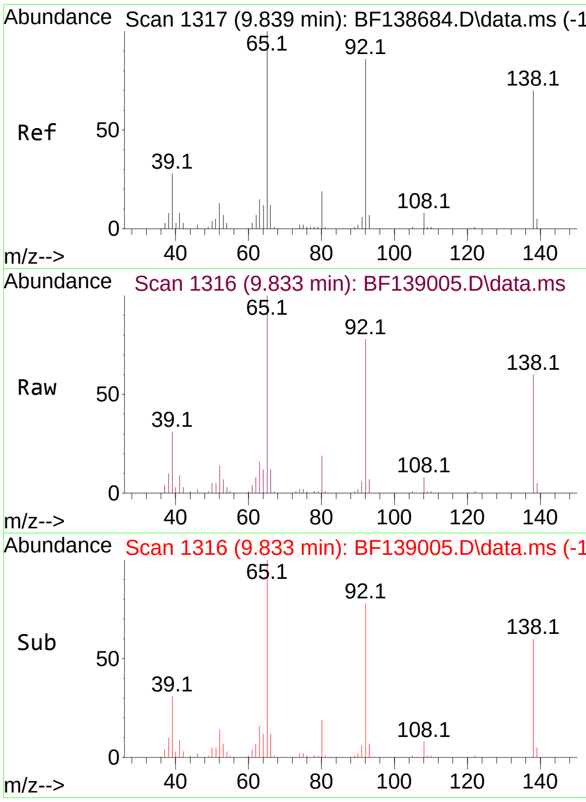


#52
Acenaphthene
Concen: 52.522 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:154 Resp: 163965

Ion	Ratio	Lower	Upper
154	100		
153	110.5	89.9	134.9
152	49.5	40.6	60.8

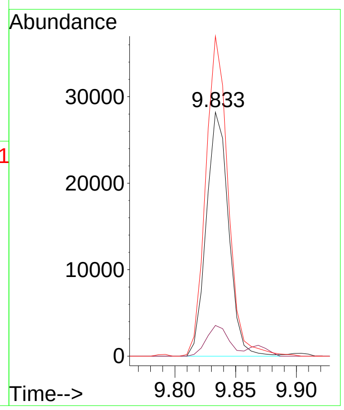
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

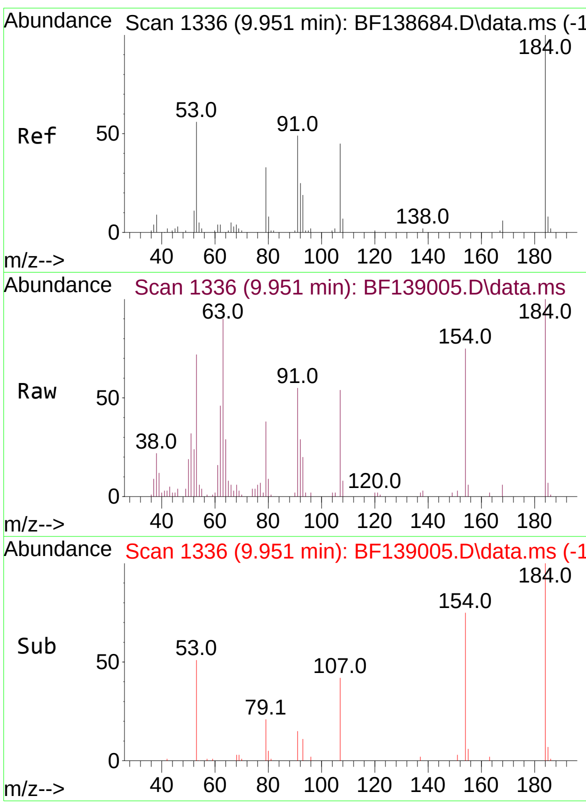


#53
3-Nitroaniline
Concen: 43.028 ng
RT: 9.833 min   Scan# 1
Delta R.T.   -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024   20:47

Tgt Ion:138 Resp: 36083

Ion	Ratio	Lower	Upper
138	100		
108	12.6	9.1	13.7
92	131.1	98.7	148.1

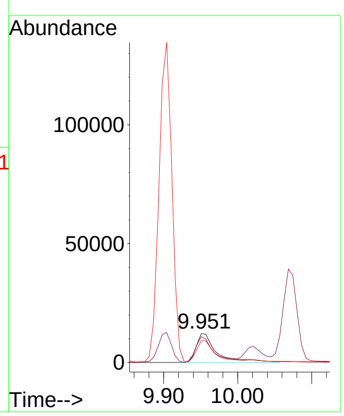




#54
2,4-Dinitrophenol
Concen: 63.226 ng
RT: 9.951 min   Scan# 1336
Delta R.T.   -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024   20:47

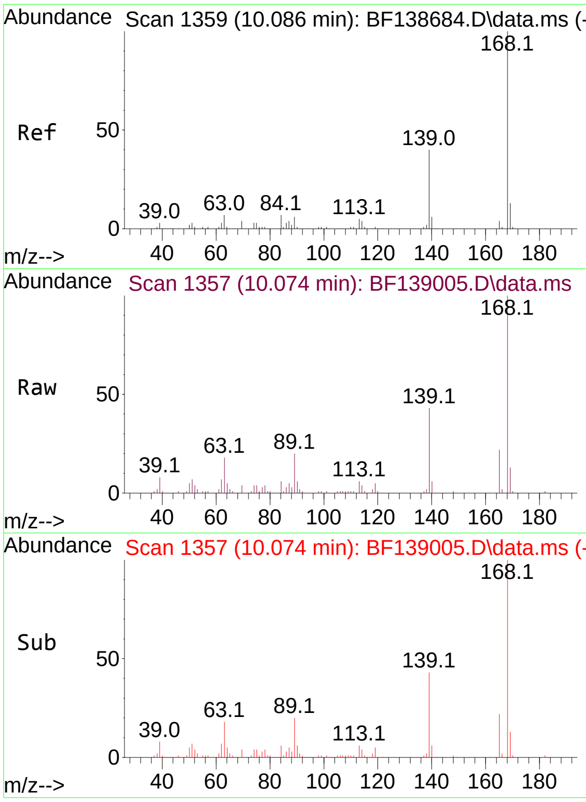
Tgt Ion:184 Resp: 23610

Ion	Ratio	Lower	Upper
184	100		
63	89.5	57.5	86.3#
154	75.3	51.7	77.5



Sample Results: **BF139005.D**

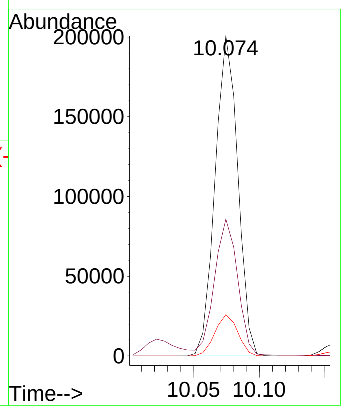
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

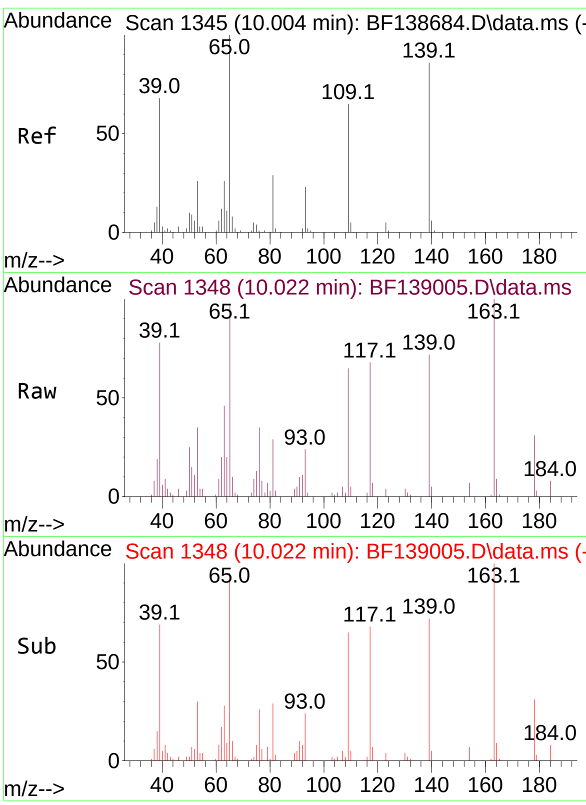


#55
Dibenzofuran
Concen: 54.801 ng
RT: 10.074 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:168 Resp: 241498

Ion	Ratio	Lower	Upper
168	100		
139	42.8	32.6	49.0
169	12.9	10.7	16.1

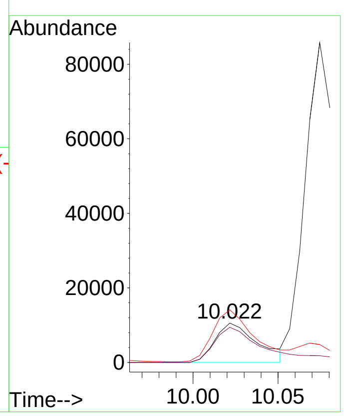




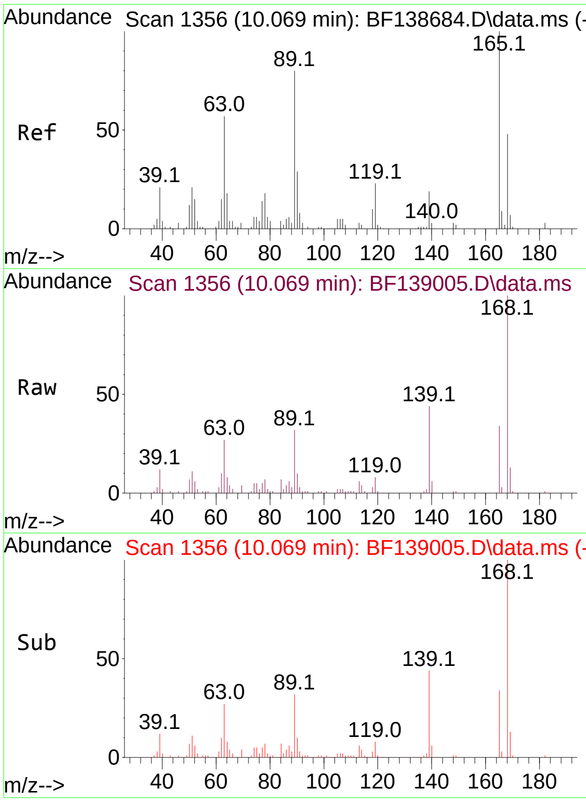
#56
4-Nitrophenol
Concen: 36.031 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.018 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:139 Resp: 18170

Ion	Ratio	Lower	Upper
139	100		
109	89.7	55.5	95.5
65	133.9	96.7	136.7



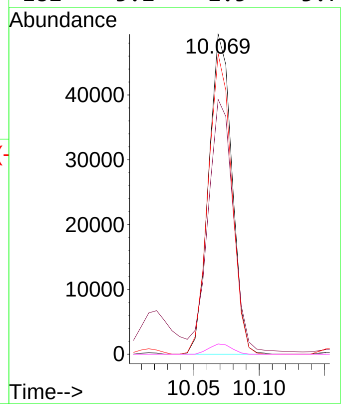
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

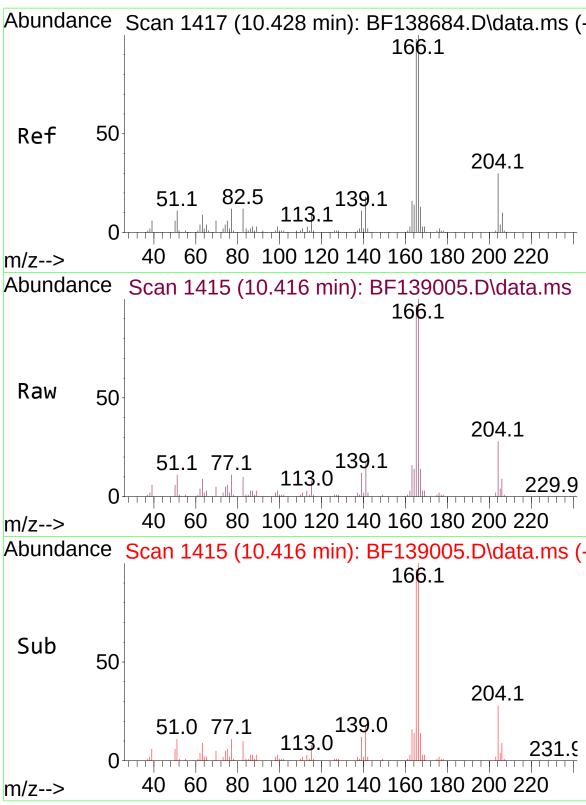


#57
2,4-Dinitrotoluene
Concen: 59.264 ng
RT: 10.069 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:165 Resp: 61336

Ion	Ratio	Lower	Upper
165	100		
63	79.6	46.3	69.5#
89	93.8	64.2	96.4
182	3.2	2.5	3.7

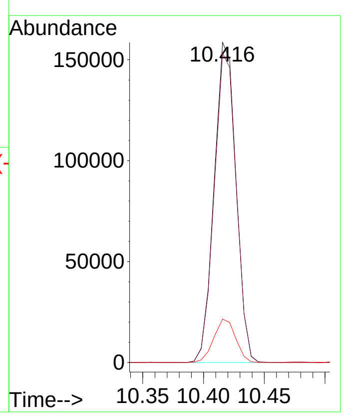




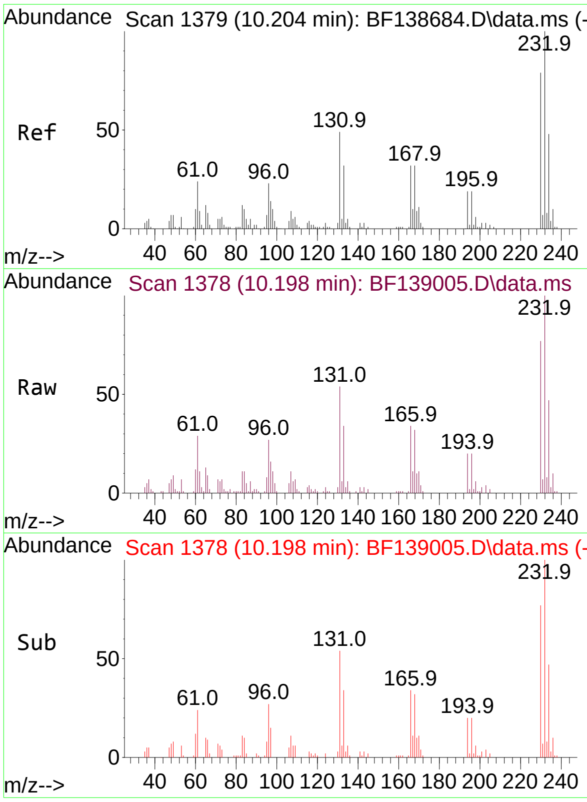
#58
Fluorene
Concen: 56.725 ng
RT: 10.416 min Scan# 1415
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:166 Resp: 199064

Ion	Ratio	Lower	Upper
166	100		
165	96.7	78.4	117.6
167	13.5	10.6	16.0



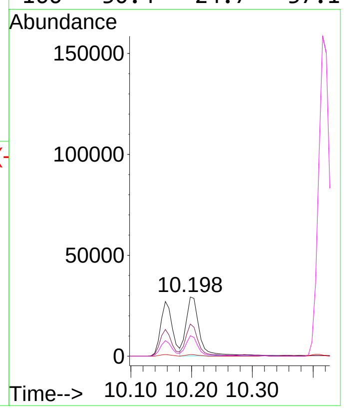
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

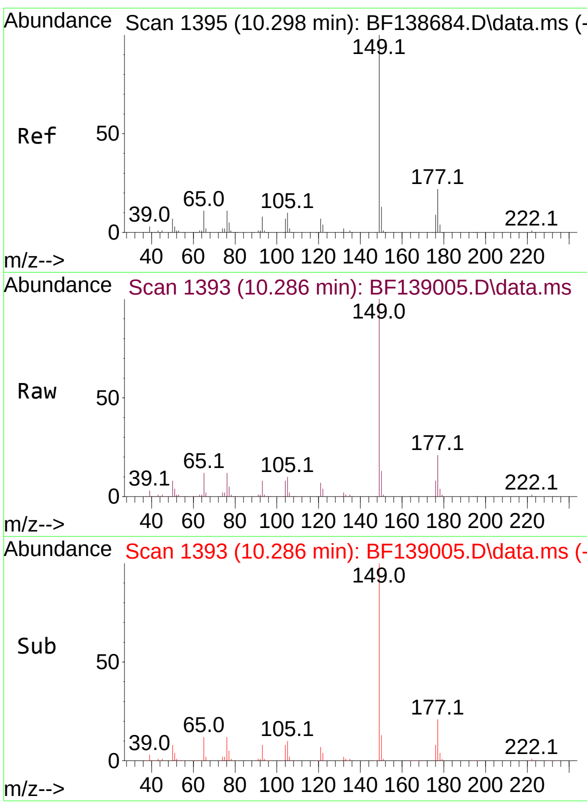


#59
2,3,4,6-Tetrachlorophenol
Concen: 56.042 ng
RT: 10.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:232 Resp: 44596

Ion	Ratio	Lower	Upper
232	100		
131	50.0	37.0	55.4
130	2.6	2.0	3.0
166	30.4	24.7	37.1

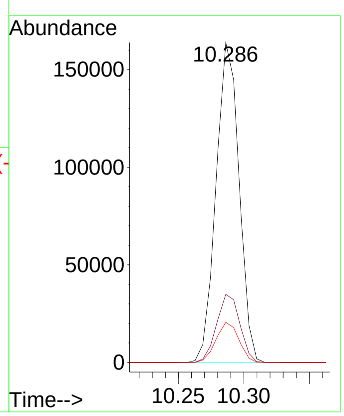




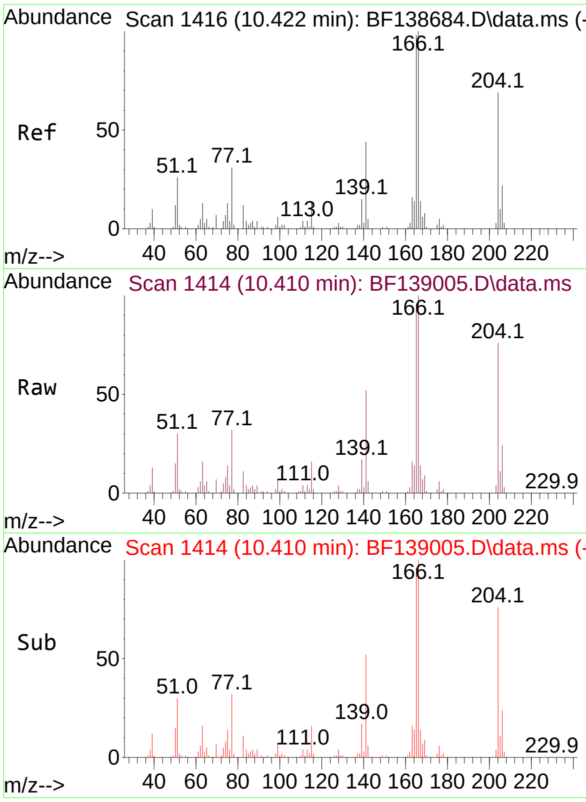
#60
Diethylphthalate
Concen: 58.754 ng
RT: 10.286 min Scan# 1393
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:149 Resp: 200243

Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.8	26.8
150	12.6	10.1	15.1



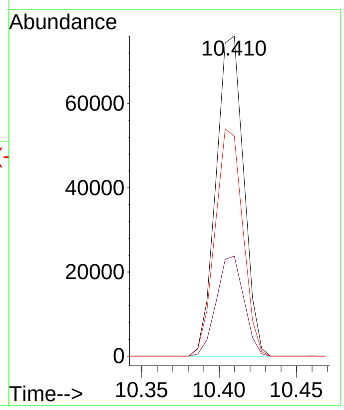
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

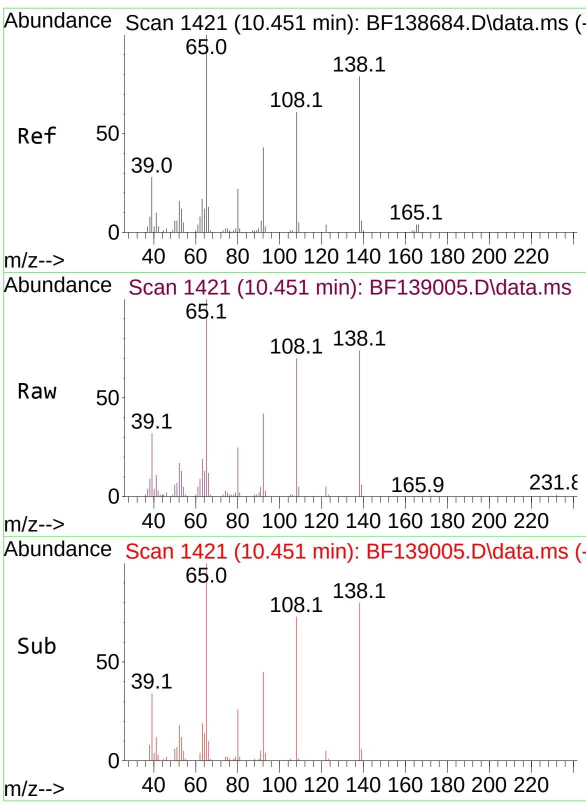


#61
4-Chlorophenyl-phenylether
Concen: 54.841 ng
RT: 10.410 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:204 Resp: 94653

Ion	Ratio	Lower	Upper
204	100		
206	31.3	26.1	39.1
141	68.8	51.4	77.0

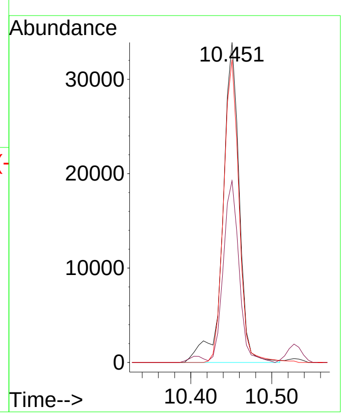




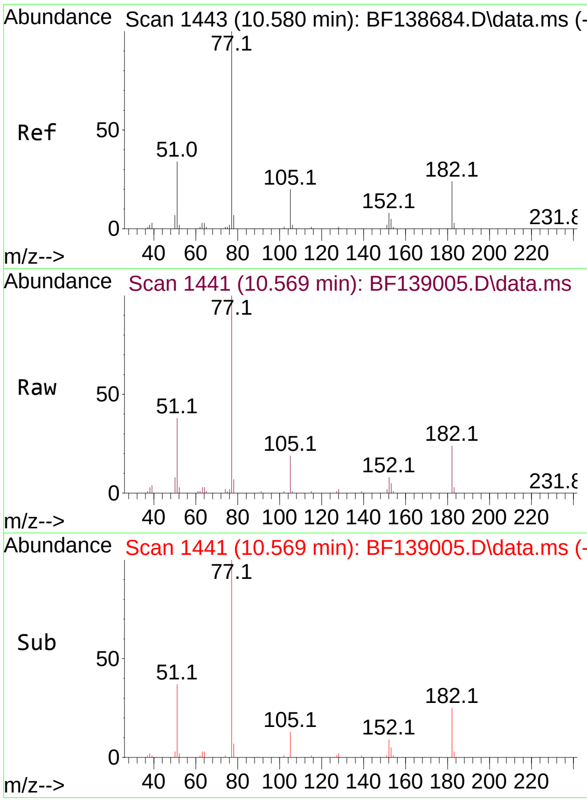
#62
4-Nitroaniline
Concen: 59.680 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:138 Resp: 47561

Ion	Ratio	Lower	Upper
138	100		
92	56.8	34.2	74.2
108	94.6	56.2	96.2



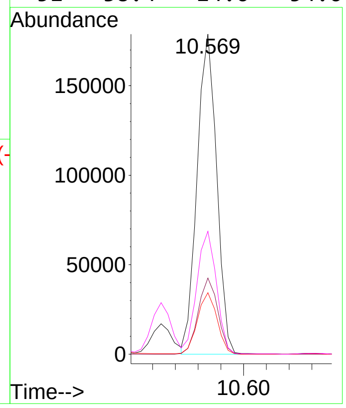
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

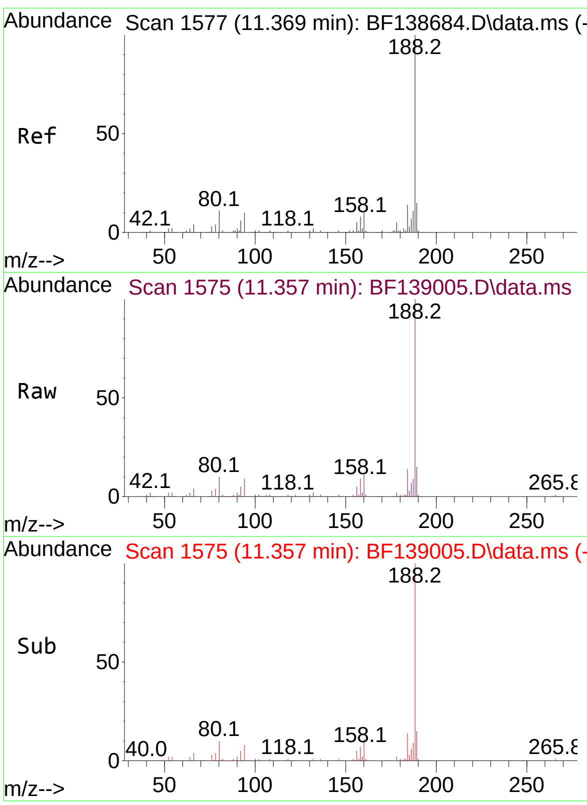


#63
Azobenzene
Concen: 56.668 ng
RT: 10.569 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 77 Resp: 214205

Ion	Ratio	Lower	Upper
77	100		
182	23.8	3.4	43.4
105	19.2	0.2	40.2
51	38.4	14.6	54.6

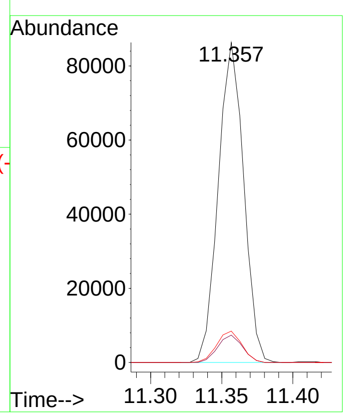




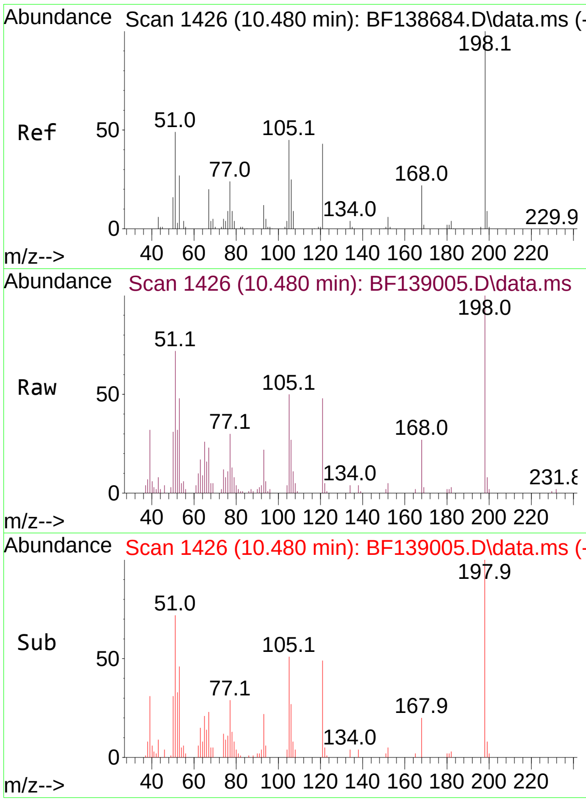
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1575
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:188 Resp: 107145

Ion	Ratio	Lower	Upper
188	100		
94	8.6	7.6	11.4
80	9.8	8.6	12.8



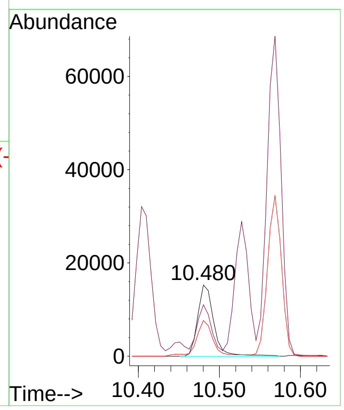
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

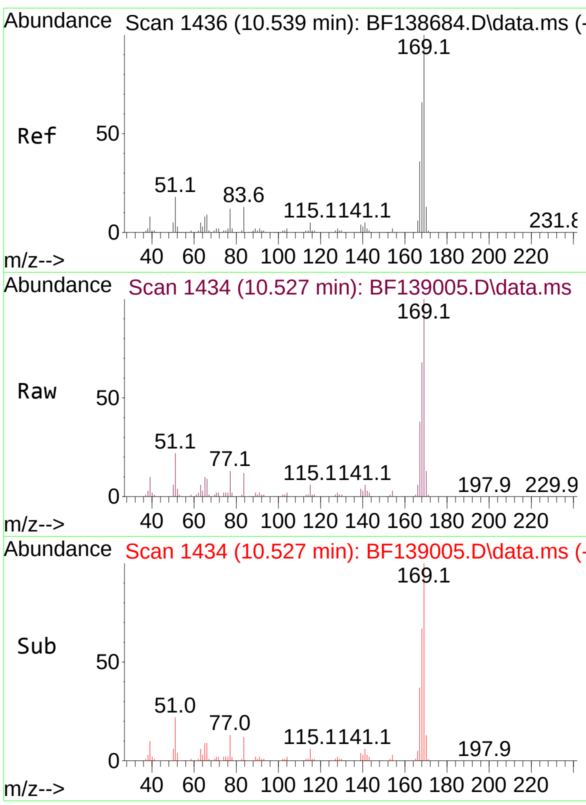


#65
4,6-Dinitro-2-methylphenol
Concen: 32.209 ng
RT: 10.480 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:198 Resp: 21054

Ion	Ratio	Lower	Upper
198	100		
51	72.0	39.9	79.9
105	50.0	26.1	66.1

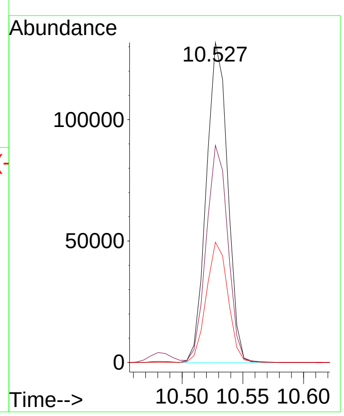




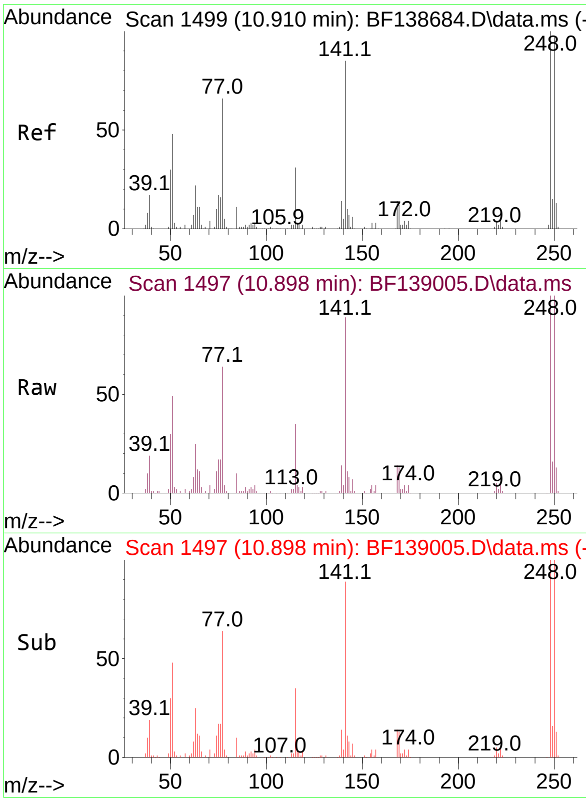
#66
n-Nitrosodiphenylamine
Concen: 48.032 ng
RT: 10.527 min Scan# 1434
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:169 Resp: 160865

Ion	Ratio	Lower	Upper
169	100		
168	67.9	53.0	79.6
167	37.6	29.0	43.6



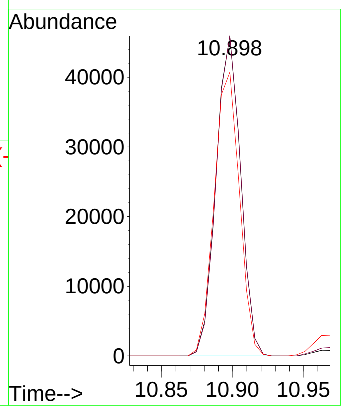
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

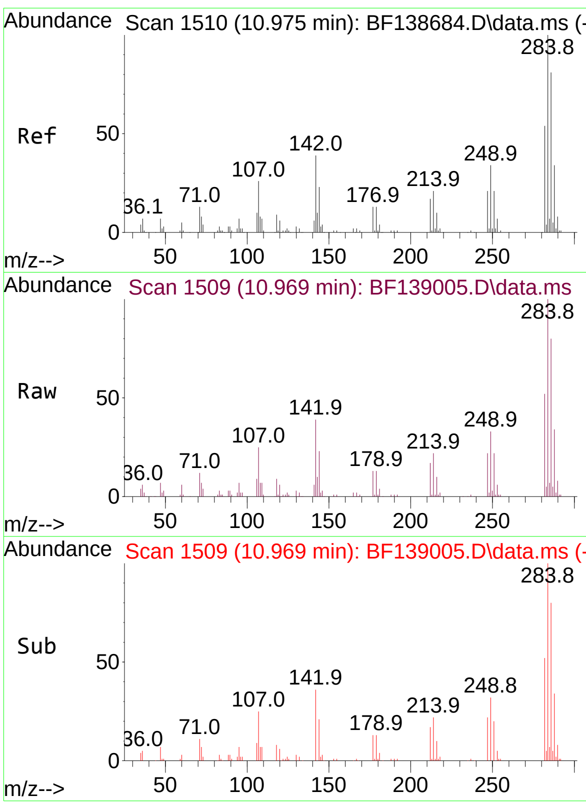


#67
4-Bromophenyl-phenylether
Concen: 47.657 ng
RT: 10.898 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:248 Resp: 55284

Ion	Ratio	Lower	Upper
248	100		
250	100.0	77.7	116.5
141	88.7	68.0	102.0

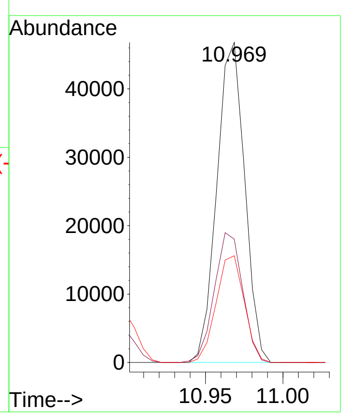




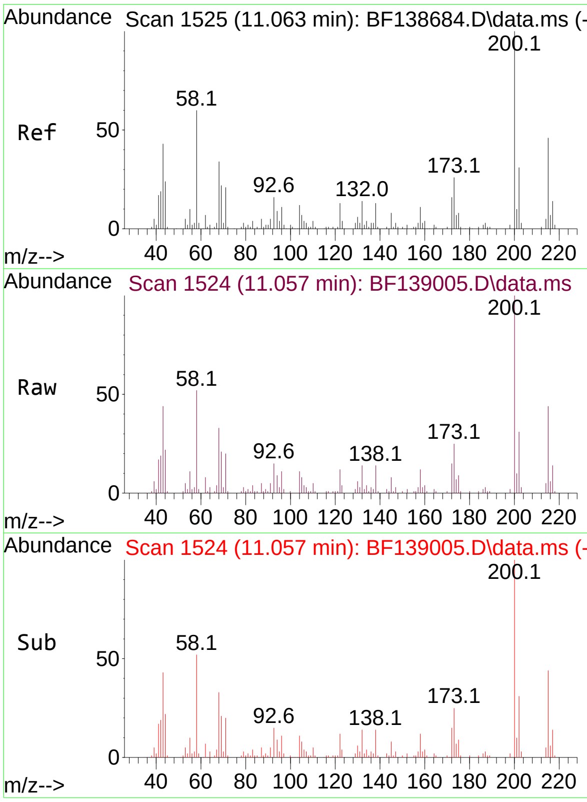
#68
Hexachlorobenzene
Concen: 48.941 ng
RT: 10.969 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:284 Resp: 58620

Ion	Ratio	Lower	Upper
284	100		
142	38.6	31.3	46.9
249	33.3	27.2	40.8



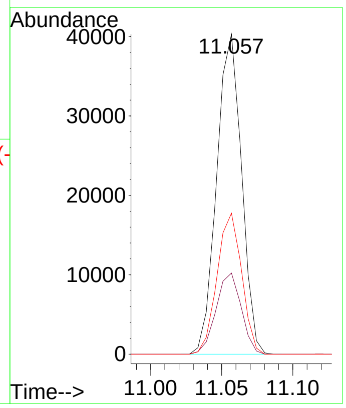
Instrument : BNA_F
ClientSampleId : 924-K1-WP0-0.25-080224MSD

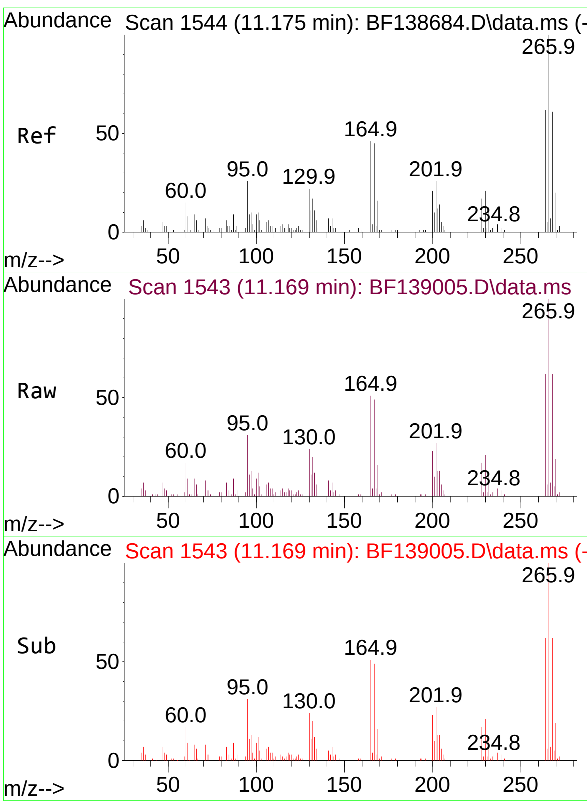


#69
Atrazine
Concen: 56.694 ng
RT: 11.057 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:200 Resp: 48988

Ion	Ratio	Lower	Upper
200	100		
173	25.3	6.0	46.0
215	44.0	26.1	66.1

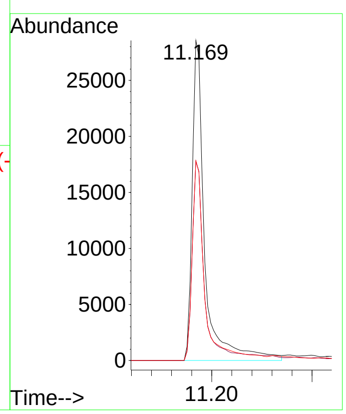




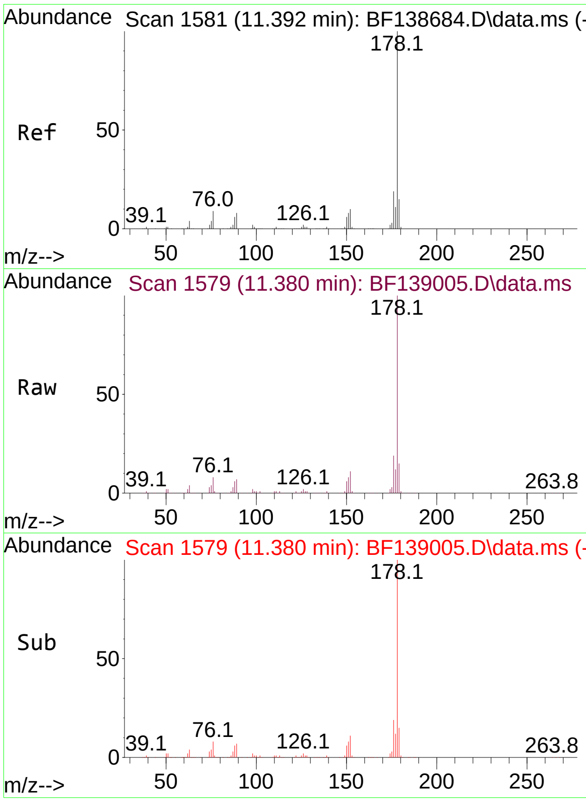
#70
Pentachlorophenol
Concen: 92.650 ng
RT: 11.169 min Scan# 1543
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:266 Resp: 50020

Ion	Ratio	Lower	Upper
266	100		
268	62.3	49.2	73.8
264	62.4	49.8	74.6



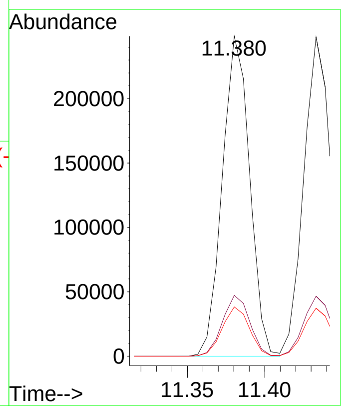
Instrument : BNA_F
ClientSampleId : 924-K1-WP0-0.25-080224MSD

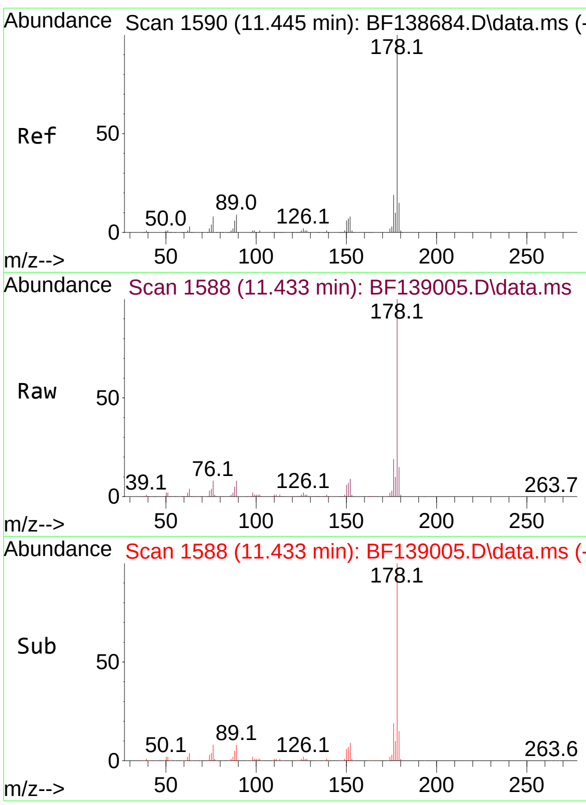


#71
Phenanthrene
Concen: 55.387 ng
RT: 11.380 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:178 Resp: 305574

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.4	12.2	18.2

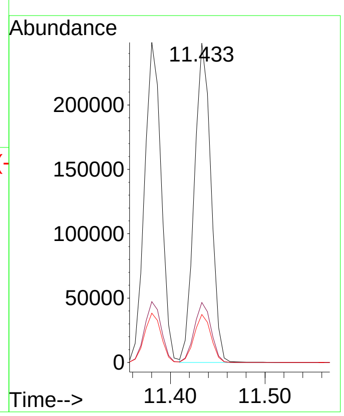




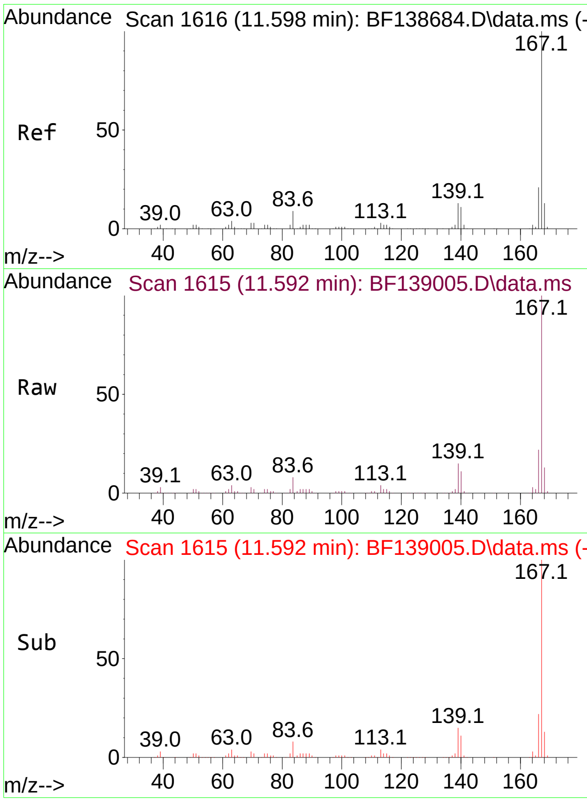
#72
Anthracene
Concen: 56.105 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:178 Resp: 304936

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.1	12.4	18.6



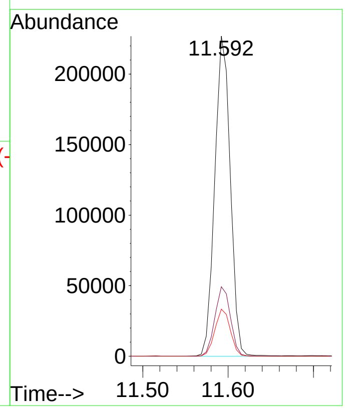
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

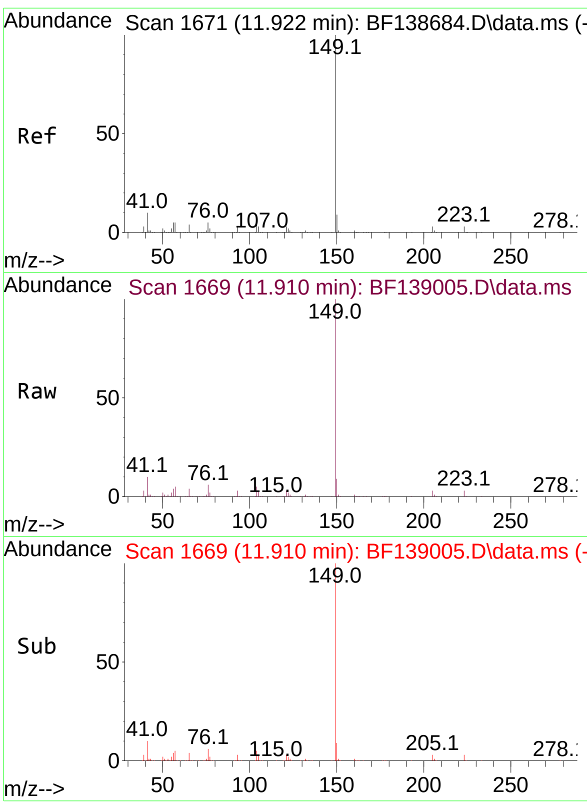


#73
Carbazole
Concen: 61.332 ng
RT: 11.592 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:167 Resp: 287592

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.2	25.8
139	14.7	10.6	16.0

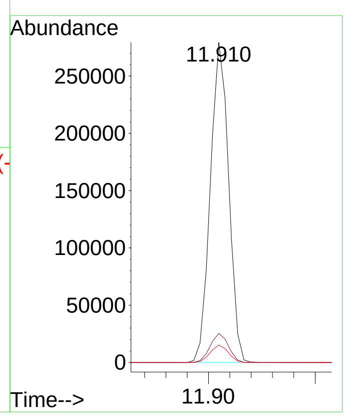




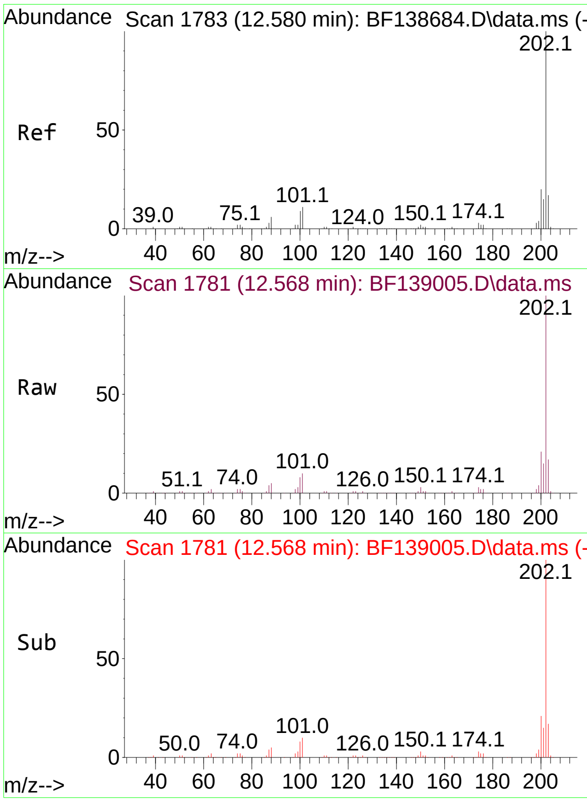
#74
Di-n-butylphthalate
Concen: 63.247 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:149 Resp: 333398

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.4	4.1	6.1



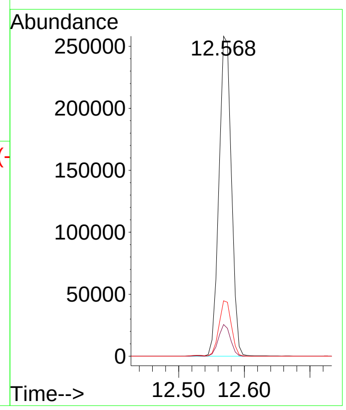
Instrument : BNA_F
ClientSampleId : 924-K1-WP0-0.25-080224MSD

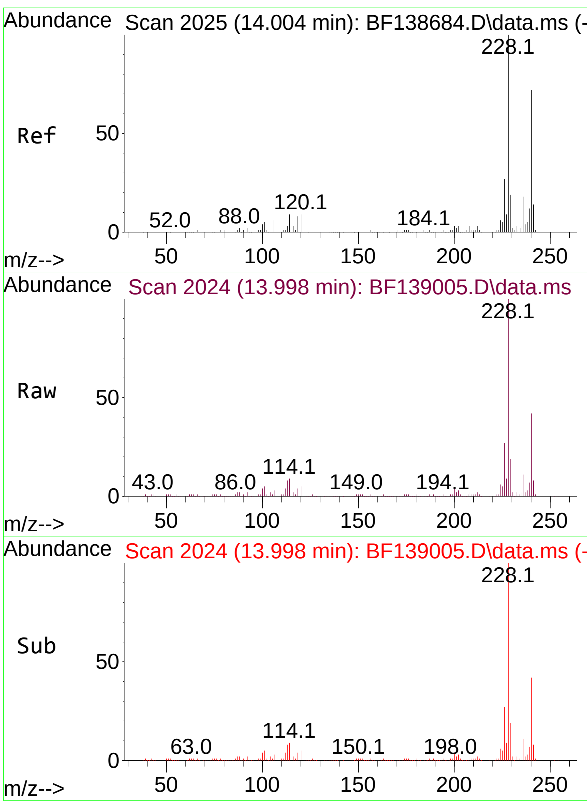


#75
Fluoranthene
Concen: 65.915 ng
RT: 12.568 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:202 Resp: 339497

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	31.2
203	17.3	0.0	37.3

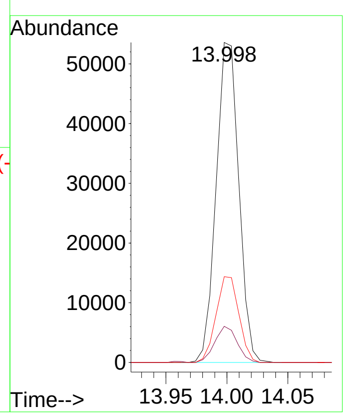




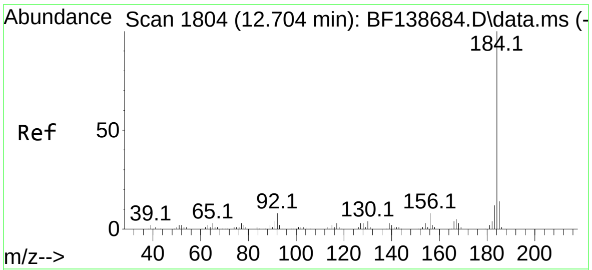
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

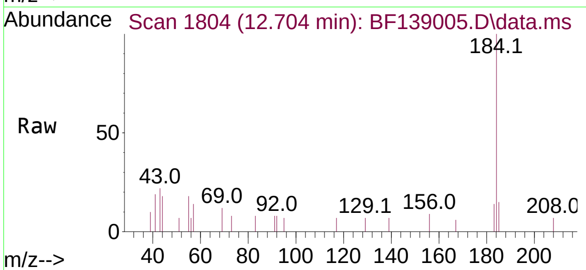
Tgt Ion:240 Resp: 69421

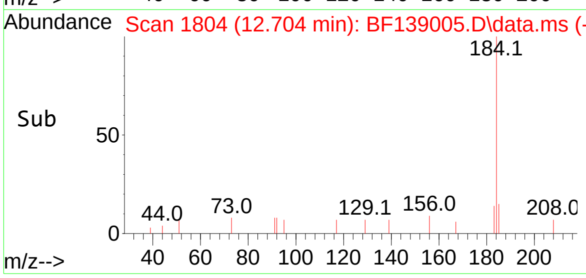
Ion	Ratio	Lower	Upper
240	100		
120	11.3	10.2	15.4
236	26.8	19.8	29.8



Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD



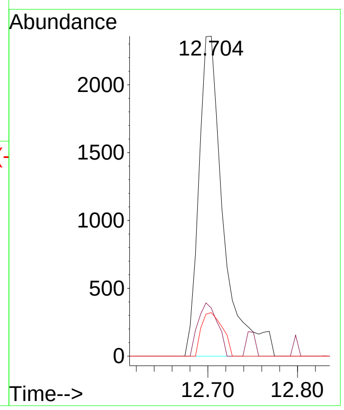


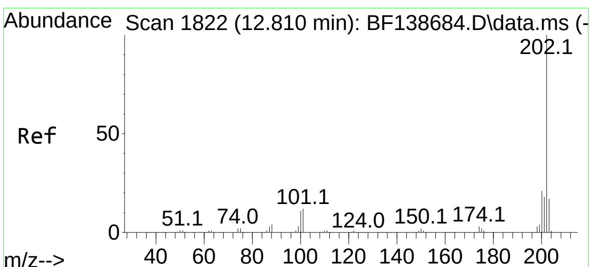


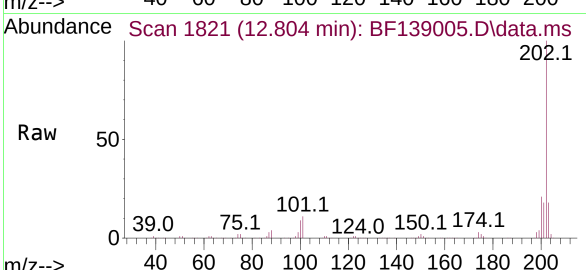
#77
Benzidine
Concen: 2.701 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

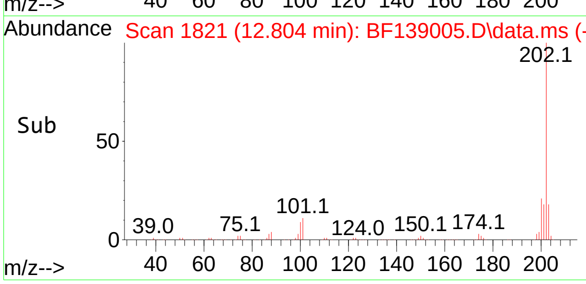
Tgt Ion:184 Resp: 4484

Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.1	16.7
183	13.6	9.6	14.4





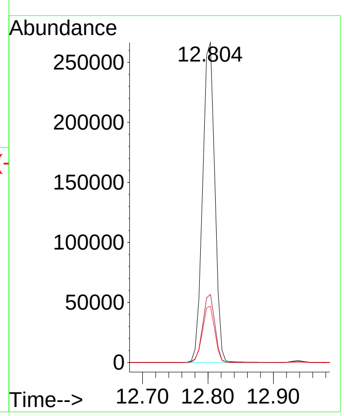




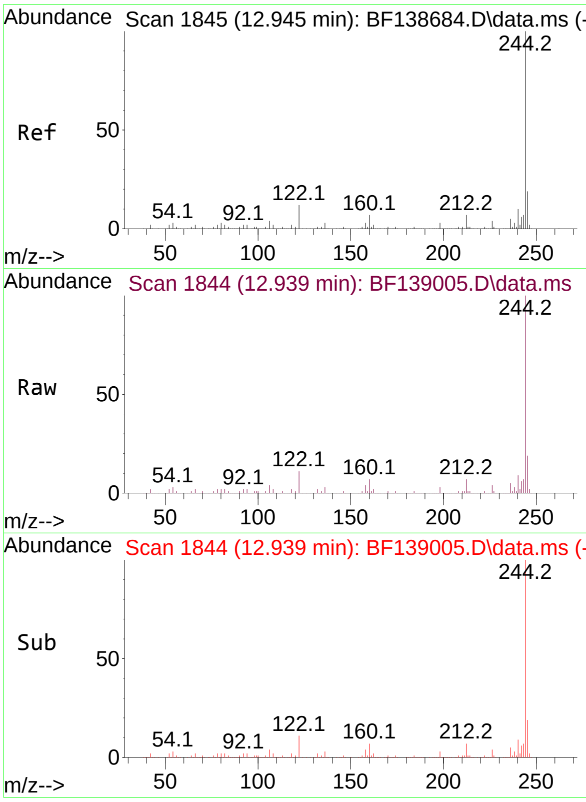
#78
Pyrene
Concen: 52.971 ng
RT: 12.804 min Scan# 1821
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:202 Resp: 346232

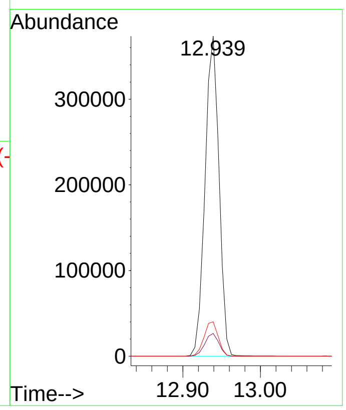
Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.8	25.2
203	17.6	13.8	20.6

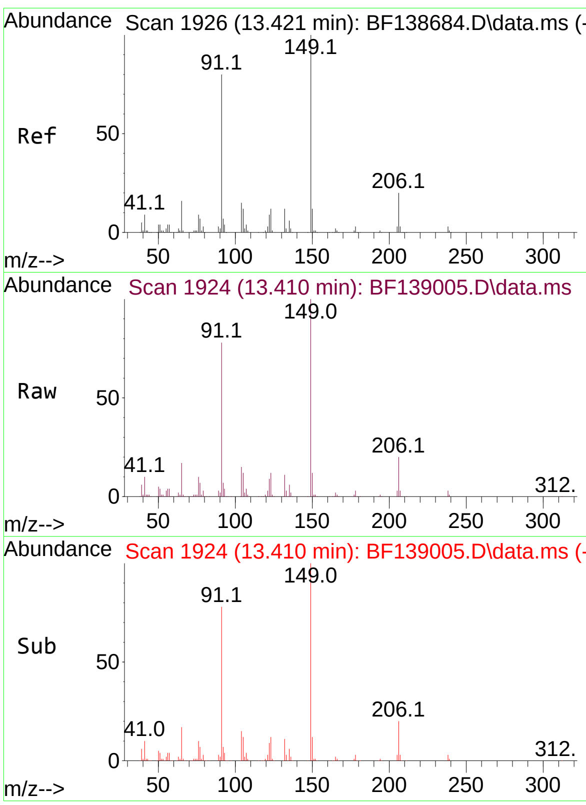


Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

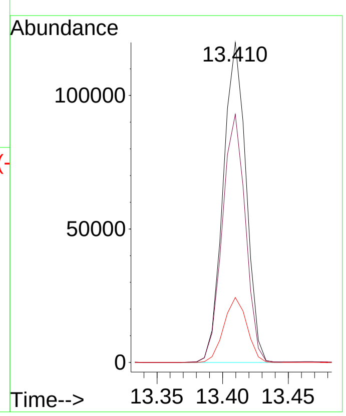



```
#79
Terphenyl-d14
Concen:  112.737 ng
RT:  12.939 min  Scan# 1
Delta R.T.  -0.006 min
Lab File:   BF139005.D
Acq: 14 Aug 2024  20:47

Tgt Ion:244 Resp:  467448
Ion  Ratio  Lower  Upper
244  100
212    7.1    5.4    8.2
122   10.8    9.6   14.4
```

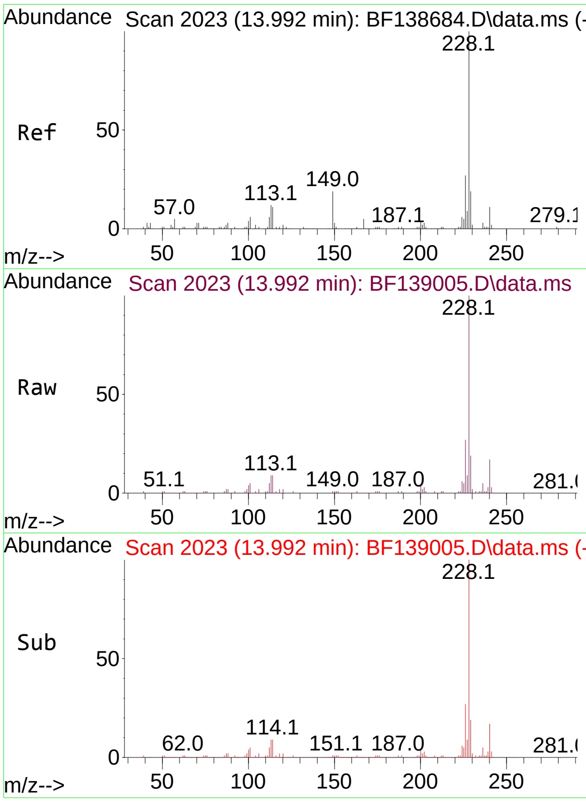





```
#80
Butylbenzylphthalate
Concen:   69.468 ng
RT:  13.410 min  Scan# 1924
Delta R.T.  -0.012 min
Lab File:   BF139005.D
Acq: 14 Aug 2024  20:47

Tgt Ion:149 Resp:  145402
Ion  Ratio  Lower  Upper
149  100
 91   77.6   63.7   95.5
206   20.3   16.2   24.2
```

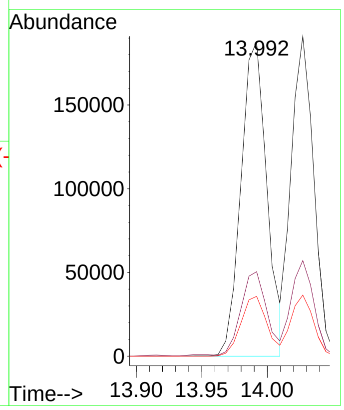


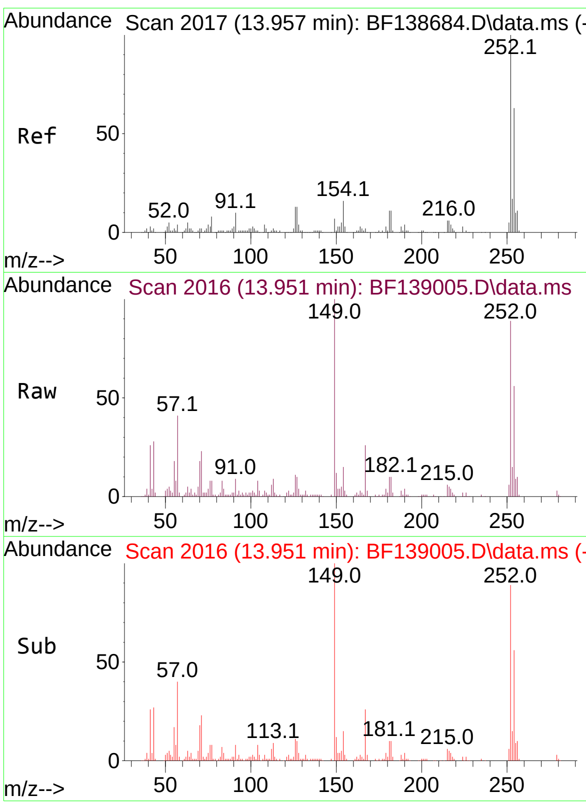
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD



#81
Benzo(a)anthracene
Concen: 54.232 ng
RT: 13.992 min Scan# 2
Delta R.T.   -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

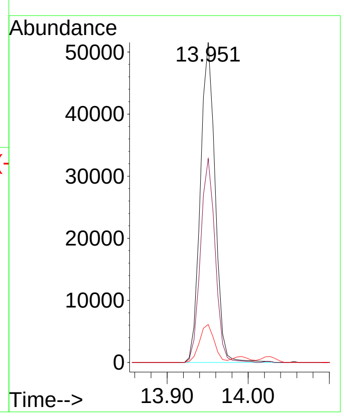
Tgt Ion:228	Resp:	259253	
Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.1	33.1
229	19.0	15.4	23.0



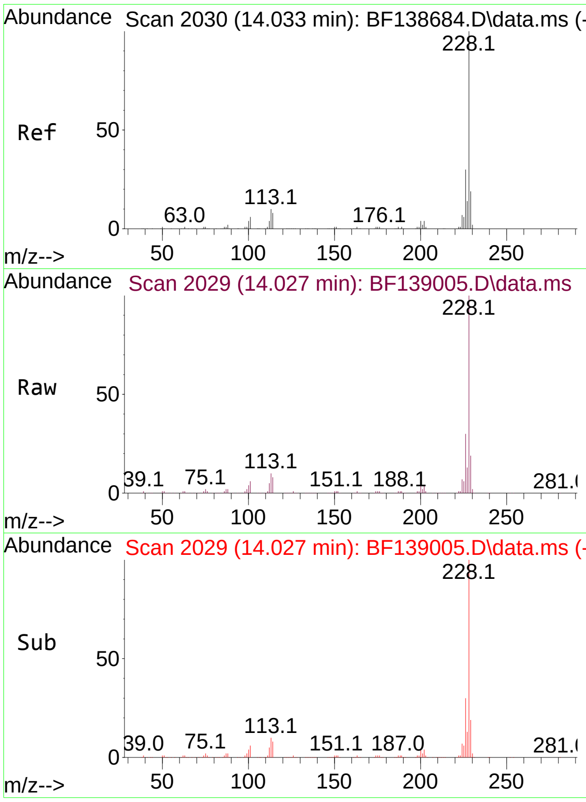


#82
3,3'-Dichlorobenzidine
Concen: 53.504 ng
RT: 13.951 min Scan# 2016
Delta R.T.   -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:252	Resp:	65454	
Ion	Ratio	Lower	Upper
252	100		
254	63.7	50.8	76.2
126	11.9	10.2	15.2



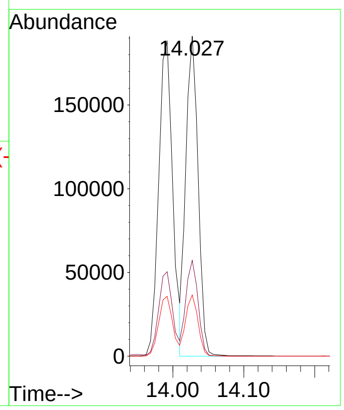
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

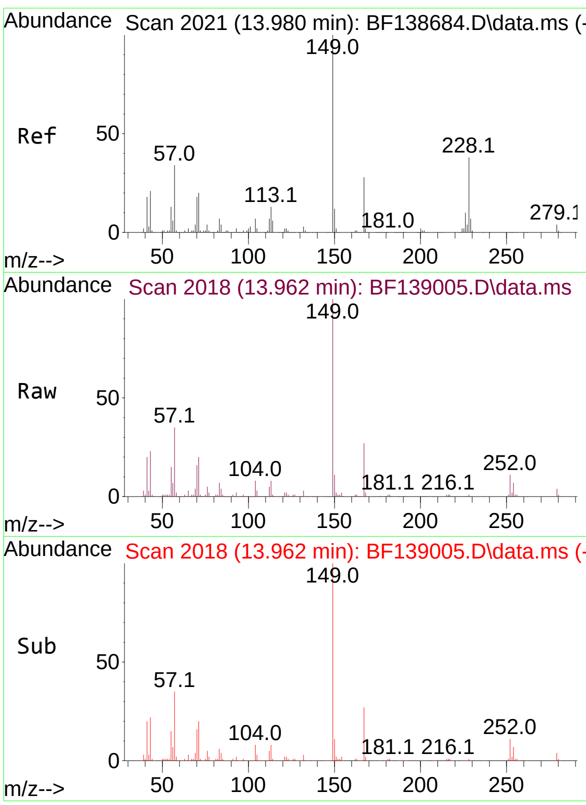


#83
Chrysene
Concen: 53.249 ng
RT: 14.027 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:228 Resp: 229659

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.7	35.5
229	19.1	15.0	22.6

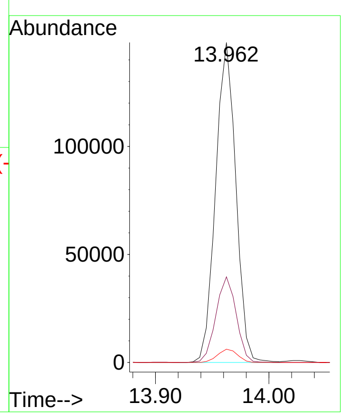




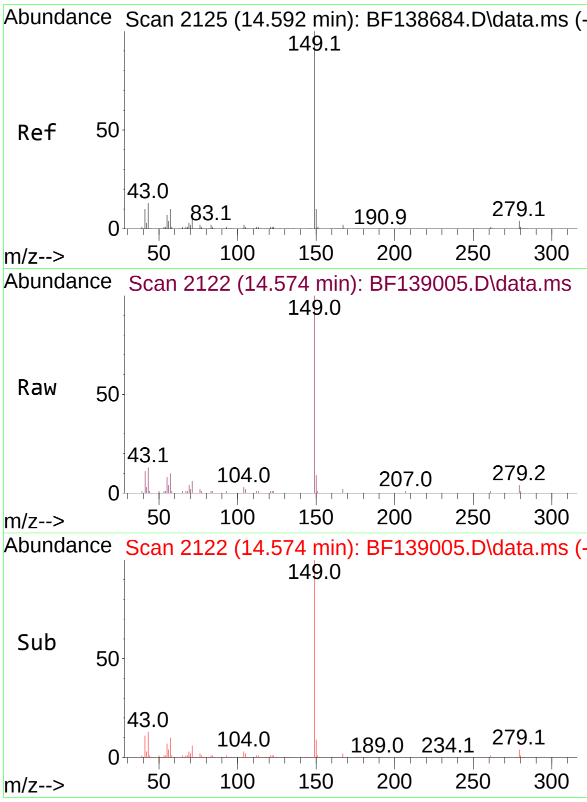
#84
Bis(2-ethylhexyl)phthalate
Concen: 59.985 ng
RT: 13.962 min Scan# 2018
Delta R.T. -0.018 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:149 Resp: 183851

Ion	Ratio	Lower	Upper
149	100		
167	26.8	22.2	33.4
279	4.2	3.4	5.0



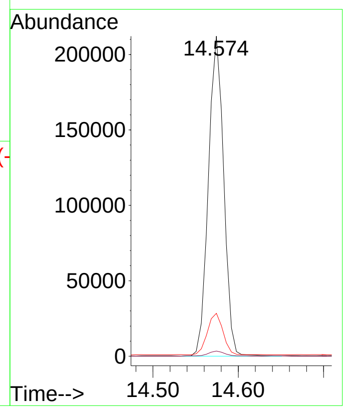
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

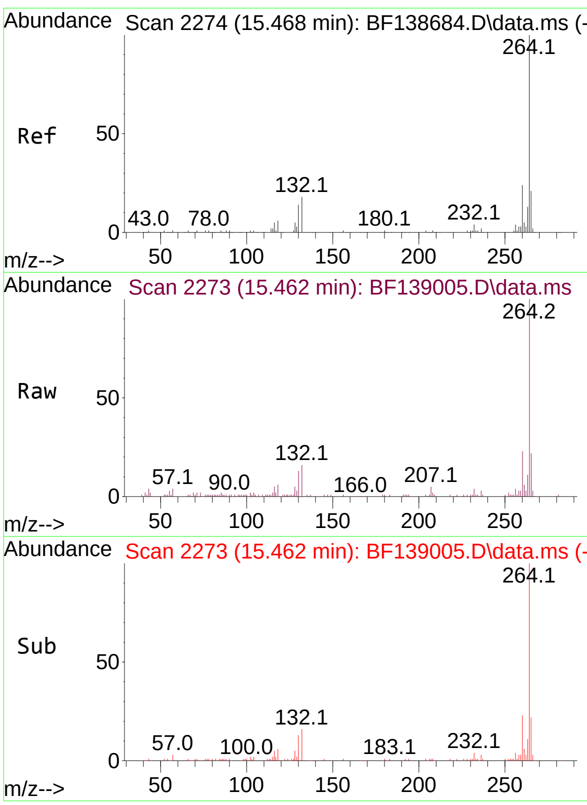


#85
Di-n-octyl phthalate
Concen: 46.794 ng
RT: 14.574 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:149 Resp: 265356

Ion	Ratio	Lower	Upper
149	100		
167	1.8	1.4	2.0
43	13.0	10.4	15.6

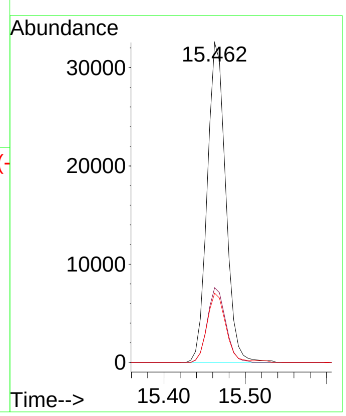




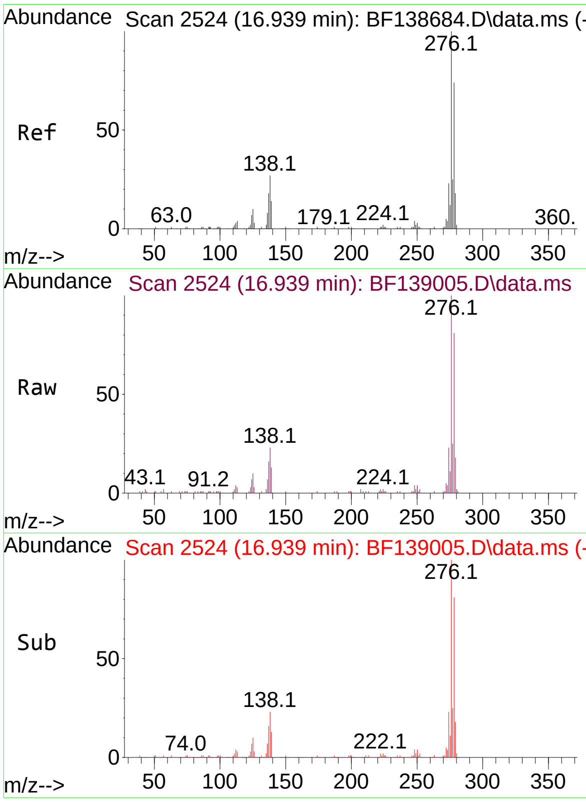
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:264 Resp: 51366

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.0	28.6
265	21.7	17.0	25.6



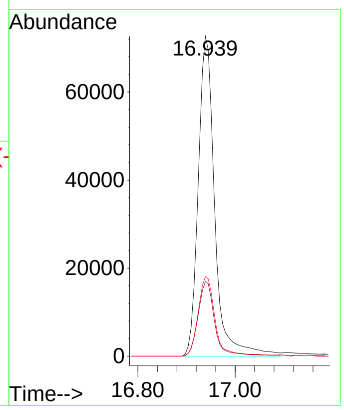
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

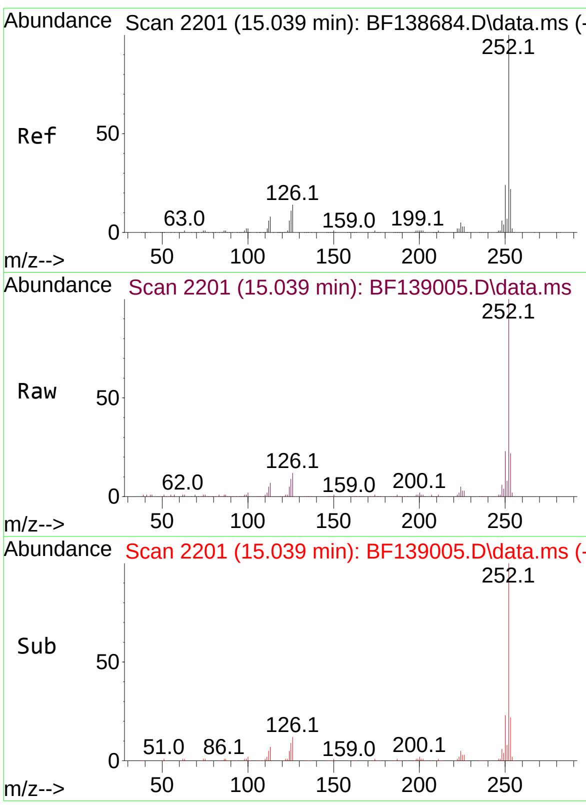


#87
Indeno(1,2,3-cd)pyrene
Concen: 46.742 ng
RT: 16.939 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:276 Resp: 172061

Ion	Ratio	Lower	Upper
276	100		
138	23.2	21.8	32.8
277	25.2	20.6	30.8

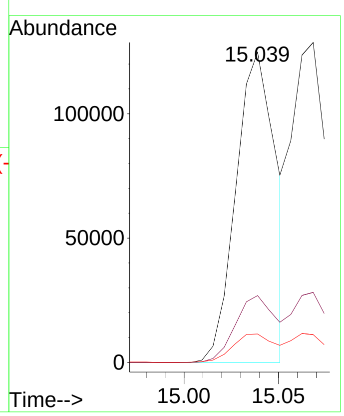




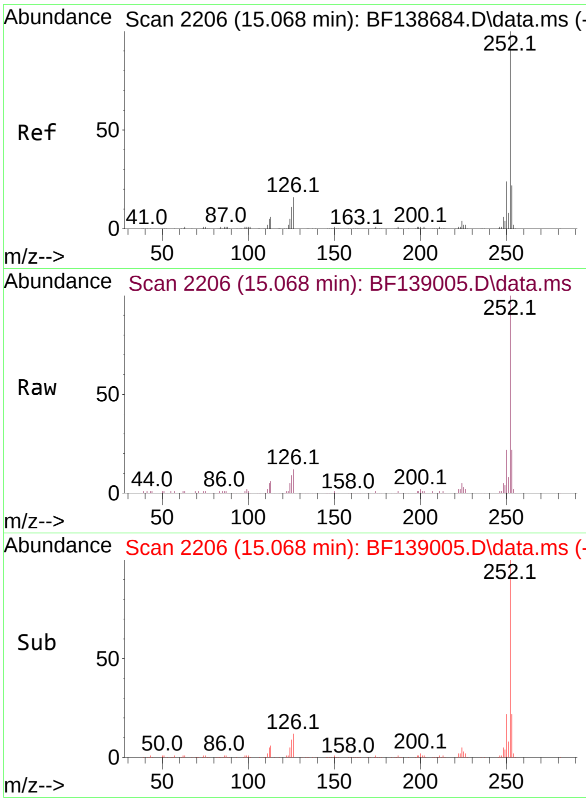
#88
Benzo(b)fluoranthene
Concen: 56.856 ng
RT: 15.039 min Scan# 2201
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:252 Resp: 181039

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	9.2	8.9	13.3



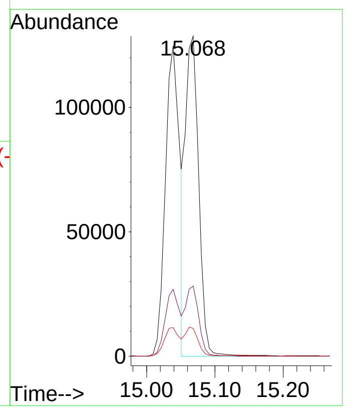
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

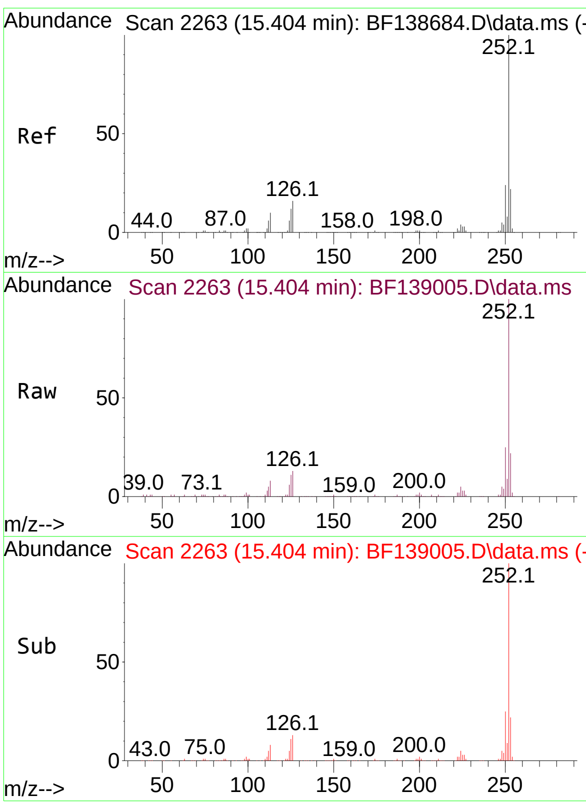


#89
Benzo(k)fluoranthene
Concen: 63.481 ng
RT: 15.068 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:252 Resp: 175013

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	8.7	8.6	13.0

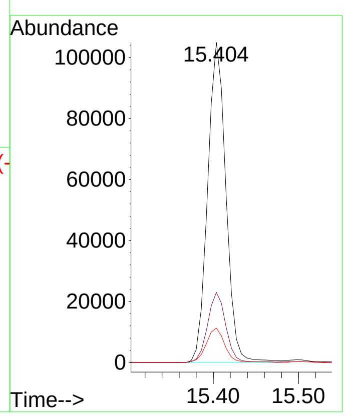




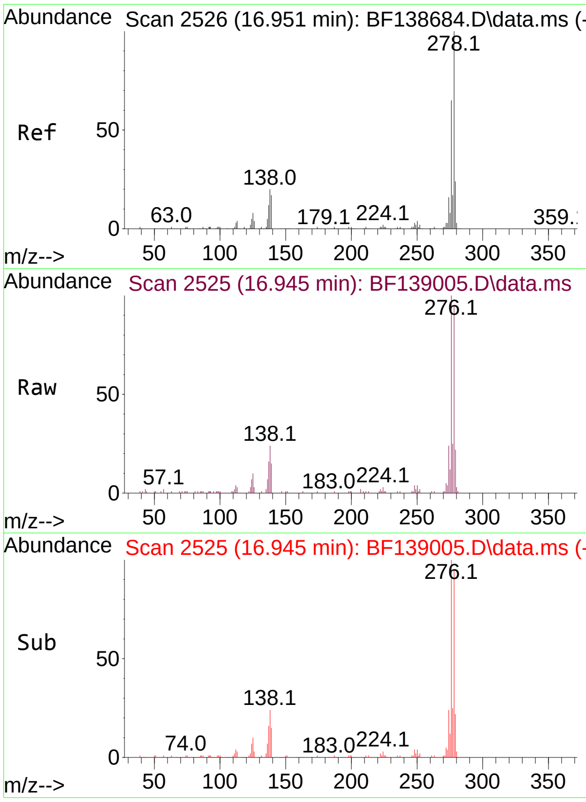
#90
Benzo(a)pyrene
Concen: 58.419 ng
RT: 15.404 min Scan# 2263
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:252 Resp: 156468

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9
125	10.8	9.5	14.3



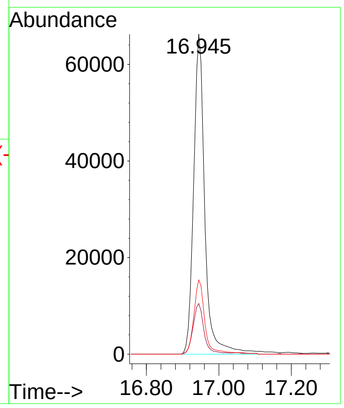
Instrument :
BNA_F
ClientSampleId :
924-K1-WP0-0.25-080224MSD

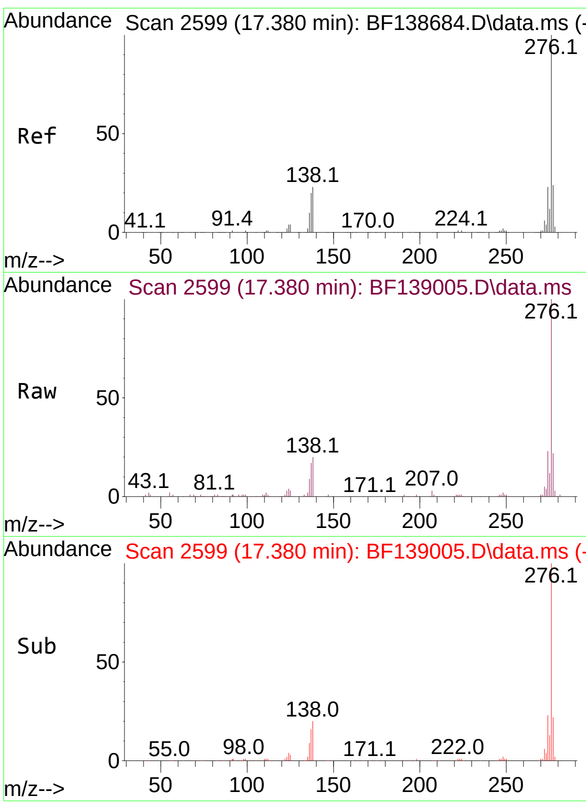


#91
Dibenzo(a,h)anthracene
Concen: 47.437 ng
RT: 16.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:278 Resp: 143340

Ion	Ratio	Lower	Upper
278	100		
139	15.8	14.0	21.0
279	23.2	19.0	28.4

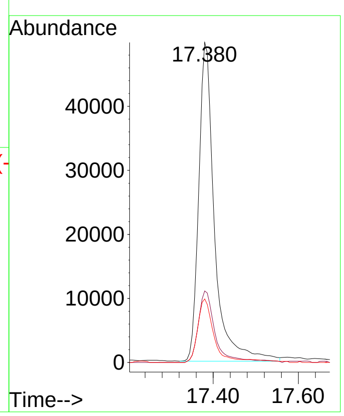




#92
Benzo(g,h,i)perylene
Concen: 40.933 ng
RT: 17.380 min Scan# 2599
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:276 Resp: 128350

Ion	Ratio	Lower	Upper
276	100		
277	22.3	19.0	28.4
138	19.8	18.5	27.7



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

Manual Integration Report

Sequence:	bf073024	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF138682.D	Benzoic acid	yogesh	7/31/2024 6:39:36 AM	mohammad	7/31/2024 8:08:34 AM	Peak Integrated by Software incorrectly

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

Manual Integration Report

Sequence:	BF080924	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF138879.D	2,3,4,6-Tetrachlorophenol	yogesh	8/10/2024 12:55:26 AM	mohammad	8/12/2024 1:39:31 AM	Peak Integrated by Software incorrectly
SSTDCCC040	BF138879.D	Caprolactam	yogesh	8/10/2024 12:55:26 AM	mohammad	8/12/2024 1:39:31 AM	Peak Integrated by Software incorrectly
PB162489BS	BF138886.D	Caprolactam	yogesh	8/10/2024 12:55:31 AM	mohammad	8/12/2024 1:39:31 AM	Peak Integrated by Software incorrectly

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

Manual Integration Report

Sequence:	BF081024	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF138901.D	Caprolactam	Jagrut	8/12/2024 5:09:23 PM	mohammad	8/13/2024 5:17:21 AM	Peak Integrated by Software incorrectly

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

Manual Integration Report

Sequence:	BF081424	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF138988.D	Benzoic acid	yogesh	8/15/2024 12:55:27 AM	mohammad	8/16/2024 3:02:17 AM	Peak Integrated by Software incorrectly
SSTDCCC040	BF138988.D	Caprolactam	yogesh	8/15/2024 12:55:27 AM	mohammad	8/16/2024 3:02:17 AM	Peak Integrated by Software incorrectly
P3466-02MS	BF139004.D	Benzo(b)fluoranthene	Jagrut	8/15/2024 10:25:32 AM	mohammad	8/16/2024 3:02:17 AM	Peak Integrated by Software incorrectly

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 # BF073024

Review By	yogesh	Review On	7/31/2024 6:39:45 AM		
Supervise By	mohammad	Supervise On	7/31/2024 8:08:34 AM		
SubDirectory	BF073024	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12036 10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF138679.D	30 Jul 2024 12:24	RC/JU	Ok
2	SSTDICC2.5	BF138680.D	30 Jul 2024 12:54	RC/JU	Ok
3	SSTDICC005	BF138681.D	30 Jul 2024 13:25	RC/JU	Ok
4	SSTDICC010	BF138682.D	30 Jul 2024 13:56	RC/JU	Ok,M
5	SSTDICC020	BF138683.D	30 Jul 2024 14:25	RC/JU	Ok
6	SSTDICCC040	BF138684.D	30 Jul 2024 14:56	RC/JU	Ok
7	SSTDICC050	BF138685.D	30 Jul 2024 15:27	RC/JU	Ok
8	SSTDICC060	BF138686.D	30 Jul 2024 15:58	RC/JU	Ok
9	SSTDICC080	BF138687.D	30 Jul 2024 16:29	RC/JU	Ok
10	SSTDICV040	BF138688.D	30 Jul 2024 17:55	RC/JU	Ok
11	PB162188BL	BF138689.D	30 Jul 2024 18:26	RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF080924

Review By	yogesh	Review On	8/10/2024 12:55:52 AM		
Supervise By	mohammad	Supervise On	8/12/2024 1:39:31 AM		
SubDirectory	BF080924	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12039,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF138878.D	09 Aug 2024 09:17	RC/JU	Ok
2	SSTDCCC040	BF138879.D	09 Aug 2024 09:48	RC/JU	Ok,M
3	PB162421BL	BF138880.D	09 Aug 2024 10:19	RC/JU	Ok
4	PB162358BL	BF138881.D	09 Aug 2024 10:50	RC/JU	Not Ok
5	PB162358BS	BF138882.D	09 Aug 2024 11:21	RC/JU	Ok,M
6	PB162423BL	BF138883.D	09 Aug 2024 11:52	RC/JU	Ok
7	PB162423BS	BF138884.D	09 Aug 2024 12:23	RC/JU	Ok,M
8	PB162489BL	BF138885.D	09 Aug 2024 12:55	RC/JU	Ok
9	PB162489BS	BF138886.D	09 Aug 2024 13:25	RC/JU	Ok,M
10	P3464-02	BF138887.D	09 Aug 2024 14:10	RC/JU	Ok
11	P3468-01	BF138888.D	09 Aug 2024 14:59	RC/JU	Ok
12	P3468-02	BF138889.D	09 Aug 2024 15:31	RC/JU	Ok
13	P3469-01	BF138890.D	09 Aug 2024 16:02	RC/JU	Ok
14	P3469-02	BF138891.D	09 Aug 2024 16:33	RC/JU	Ok
15	P3460-01	BF138892.D	09 Aug 2024 17:04	RC/JU	Ok
16	P3460-01MS	BF138893.D	09 Aug 2024 17:35	RC/JU	Ok,M
17	P3460-01MSD	BF138894.D	09 Aug 2024 18:05	RC/JU	Ok,M
18	P3507-01	BF138895.D	09 Aug 2024 18:35	RC/JU	Ok,M
19	P3509-01	BF138896.D	09 Aug 2024 19:06	RC/JU	Ok,M
20	P3509-01MS	BF138897.D	09 Aug 2024 19:36	RC/JU	Ok,M
21	P3509-01MSD	BF138898.D	09 Aug 2024 20:06	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 # BF080924

Review By	yogesh	Review On	8/10/2024 12:55:52 AM		
Supervise By	mohammad	Supervise On	8/12/2024 1:39:31 AM		
SubDirectory	BF080924	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12039,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3394-02	BF138899.D	09 Aug 2024 20:36	RC/JU	ReRun

M : Manual Integration

Alliance TECHNICAL GROUP

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF081024

Review By	Jagrut	Review On	8/12/2024 5:10:00 PM		
Supervise By	mohammad	Supervise On	8/13/2024 5:17:21 AM		
SubDirectory	BF081024	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12039,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF138900.D	10 Aug 2024 10:12	RC/JU	Ok
2	SSTDCCC040	BF138901.D	10 Aug 2024 10:41	RC/JU	Ok,M
3	PB162577TB	BF138902.D	10 Aug 2024 11:11	RC/JU	Ok
4	P3479-03	BF138903.D	10 Aug 2024 11:46	RC/JU	Ok
5	P3479-05	BF138904.D	10 Aug 2024 12:16	RC/JU	Ok
6	P3479-01	BF138905.D	10 Aug 2024 12:46	RC/JU	Ok
7	P3479-07	BF138906.D	10 Aug 2024 13:16	RC/JU	Ok
8	P3464-02MS	BF138907.D	10 Aug 2024 13:47	RC/JU	Ok,M
9	P3464-02MSD	BF138908.D	10 Aug 2024 14:17	RC/JU	Ok,M
10	P3415-04MS	BF138909.D	10 Aug 2024 14:48	RC/JU	Ok
11	P3415-05MSD	BF138910.D	10 Aug 2024 15:19	RC/JU	Ok
12	P3476-01	BF138911.D	10 Aug 2024 15:49	RC/JU	Ok
13	P3466-04	BF138912.D	10 Aug 2024 16:20	RC/JU	Ok
14	P3466-05	BF138913.D	10 Aug 2024 16:51	RC/JU	Ok
15	P3476-07	BF138914.D	10 Aug 2024 17:21	RC/JU	ReRun
16	P3457-01	BF138915.D	10 Aug 2024 17:52	RC/JU	Ok
17	P3457-02	BF138916.D	10 Aug 2024 18:22	RC/JU	Ok
18	P3466-01	BF138917.D	10 Aug 2024 18:53	RC/JU	Ok
19	P3466-02MS	BF138918.D	10 Aug 2024 19:23	RC/JU	Not Ok
20	P3466-03MSD	BF138919.D	10 Aug 2024 19:54	RC/JU	Not Ok
21	P3476-03	BF138920.D	10 Aug 2024 20:24	RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF081024

Review By	Jagrut	Review On	8/12/2024 5:10:00 PM		
Supervise By	mohammad	Supervise On	8/13/2024 5:17:21 AM		
SubDirectory	BF081024	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12039,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3476-05	BF138921.D	10 Aug 2024 20:54	RC/JU	ReRun
23	P3467-01	BF138922.D	10 Aug 2024 21:25	RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF081424

Review By	Jagrut	Review On	8/15/2024 10:26:10 AM		
Supervise By	mohammad	Supervise On	8/16/2024 3:02:17 AM		
SubDirectory	BF081424	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12041,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF138987.D	14 Aug 2024 11:33	RC/JU	Ok
2	SSTDCCC040	BF138988.D	14 Aug 2024 12:03	RC/JU	Ok,M
3	PB162577BL	BF138989.D	14 Aug 2024 12:32	RC/JU	Ok
4	PB162577BS	BF138990.D	14 Aug 2024 13:02	RC/JU	Ok,M
5	P3474-01	BF138991.D	14 Aug 2024 13:37	RC/JU	Ok
6	P3474-10	BF138992.D	14 Aug 2024 14:08	RC/JU	Ok
7	P3512-05	BF138993.D	14 Aug 2024 14:38	RC/JU	Ok
8	P3512-06	BF138994.D	14 Aug 2024 15:09	RC/JU	Ok
9	P3543-01	BF138995.D	14 Aug 2024 15:40	RC/JU	Ok
10	P3548-01	BF138996.D	14 Aug 2024 16:10	RC/JU	Ok
11	P3548-03	BF138997.D	14 Aug 2024 16:42	RC/JU	Ok,M
12	P3548-06	BF138998.D	14 Aug 2024 17:12	RC/JU	ReRun
13	P3548-12	BF138999.D	14 Aug 2024 17:43	RC/JU	ReRun
14	P3548-09	BF139000.D	14 Aug 2024 18:14	RC/JU	Ok
15	P3549-01	BF139001.D	14 Aug 2024 18:46	RC/JU	Ok,M
16	P3476-07RE	BF139002.D	14 Aug 2024 19:16	RC/JU	Confirms
17	P3476-05RE	BF139003.D	14 Aug 2024 19:46	RC/JU	Confirms
18	P3466-02MS	BF139004.D	14 Aug 2024 20:16	RC/JU	Ok,M
19	P3466-03MSD	BF139005.D	14 Aug 2024 20:47	RC/JU	Ok
20	P3475-01	BF139006.D	14 Aug 2024 21:17	RC/JU	ReRun
21	P3475-02	BF139007.D	14 Aug 2024 21:47	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 # BF081424

Review By	Jagrut	Review On	8/15/2024 10:26:10 AM		
Supervise By	mohammad	Supervise On	8/16/2024 3:02:17 AM		
SubDirectory	BF081424	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12041,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3475-03MS	BF139008.D	14 Aug 2024 22:17	RC/JU	Ok,M
23	P3475-04MSD	BF139009.D	14 Aug 2024 22:47	RC/JU	Ok,M
24	P3526-01	BF139010.D	14 Aug 2024 23:18	RC/JU	ReRun

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 # BF073024

Review By	yogesh	Review On	7/31/2024 6:39:45 AM		
Supervise By	mohammad	Supervise On	7/31/2024 8:08:34 AM		
SubDirectory	BF073024	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12036 10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF138679.D	30 Jul 2024 12:24		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF138680.D	30 Jul 2024 12:54		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF138681.D	30 Jul 2024 13:25	Compound#32,41,54,56,65,70 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF138682.D	30 Jul 2024 13:56		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF138683.D	30 Jul 2024 14:25	Comopund#41 Kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF138684.D	30 Jul 2024 14:56	The calibration is good for 8270 DOD & 625.1	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF138685.D	30 Jul 2024 15:27		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF138686.D	30 Jul 2024 15:58	Compound#9 removed from 60 ppm	RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF138687.D	30 Jul 2024 16:29	Compound#9,77 removed from 80 ppm	RC/JU	Ok
10	SSTDICV040	ICVBF073024	BF138688.D	30 Jul 2024 17:55		RC/JU	Ok
11	PB162188BL	PB162188BL	BF138689.D	30 Jul 2024 18:26		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF080924

Review By	yogesh	Review On	8/10/2024 12:55:52 AM		
Supervise By	mohammad	Supervise On	8/12/2024 1:39:31 AM		
SubDirectory	BF080924	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12039,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF138878.D	09 Aug 2024 09:17		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF138879.D	09 Aug 2024 09:48		RC/JU	Ok,M
3	PB162421BL	PB162421BL	BF138880.D	09 Aug 2024 10:19		RC/JU	Ok
4	PB162358BL	PB162358BL	BF138881.D	09 Aug 2024 10:50	Surrogate Fail	RC/JU	Not Ok
5	PB162358BS	PB162358BS	BF138882.D	09 Aug 2024 11:21		RC/JU	Ok,M
6	PB162423BL	PB162423BL	BF138883.D	09 Aug 2024 11:52		RC/JU	Ok
7	PB162423BS	PB162423BS	BF138884.D	09 Aug 2024 12:23		RC/JU	Ok,M
8	PB162489BL	PB162489BL	BF138885.D	09 Aug 2024 12:55		RC/JU	Ok
9	PB162489BS	PB162489BS	BF138886.D	09 Aug 2024 13:25		RC/JU	Ok,M
10	P3464-02	TOPSOIL	BF138887.D	09 Aug 2024 14:10		RC/JU	Ok
11	P3468-01	IDW-S1-01	BF138888.D	09 Aug 2024 14:59		RC/JU	Ok
12	P3468-02	MLS-15-682-697	BF138889.D	09 Aug 2024 15:31		RC/JU	Ok
13	P3469-01	MLS-15-513-528	BF138890.D	09 Aug 2024 16:02		RC/JU	Ok
14	P3469-02	MLS-15-625-640	BF138891.D	09 Aug 2024 16:33		RC/JU	Ok
15	P3460-01	72-11929	BF138892.D	09 Aug 2024 17:04		RC/JU	Ok
16	P3460-01MS	72-11929MS	BF138893.D	09 Aug 2024 17:35		RC/JU	Ok,M
17	P3460-01MSD	72-11929MSD	BF138894.D	09 Aug 2024 18:05		RC/JU	Ok,M
18	P3507-01	EO-03-080724	BF138895.D	09 Aug 2024 18:35	Internal Standard Fail	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 # BF080924

Review By	yogesh	Review On	8/10/2024 12:55:52 AM		
Supervise By	mohammad	Supervise On	8/12/2024 1:39:31 AM		
SubDirectory	BF080924	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12039,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3509-01	OR-02-080724	BF138896.D	09 Aug 2024 19:06	Internal Standard Fail	RC/JU	Ok,M
20	P3509-01MS	OR-02-080724MS	BF138897.D	09 Aug 2024 19:36	Internal Standard Fail	RC/JU	Ok,M
21	P3509-01MSD	OR-02-080724MSD	BF138898.D	09 Aug 2024 20:06	Internal Standard Fail	RC/JU	Ok,M
22	P3394-02	B-105-SB02	BF138899.D	09 Aug 2024 20:36	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

Alliance TECHNICAL GROUP

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF081024

Review By	Jagrut	Review On	8/12/2024 5:10:00 PM		
Supervise By	mohammad	Supervise On	8/13/2024 5:17:21 AM		
SubDirectory	BF081024	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12039,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF138900.D	10 Aug 2024 10:12		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF138901.D	10 Aug 2024 10:41		RC/JU	Ok,M
3	PB162577TB	PB162577TB	BF138902.D	10 Aug 2024 11:11		RC/JU	Ok
4	P3479-03	TS09	BF138903.D	10 Aug 2024 11:46		RC/JU	Ok
5	P3479-05	TS10	BF138904.D	10 Aug 2024 12:16		RC/JU	Ok
6	P3479-01	TS08	BF138905.D	10 Aug 2024 12:46		RC/JU	Ok
7	P3479-07	TS11	BF138906.D	10 Aug 2024 13:16		RC/JU	Ok
8	P3464-02MS	TOPSOILMS	BF138907.D	10 Aug 2024 13:47	Internal Standard Fail	RC/JU	Ok,M
9	P3464-02MSD	TOPSOILMSD	BF138908.D	10 Aug 2024 14:17	Internal Standard Fail,	RC/JU	Ok,M
10	P3415-04MS	MLS-15-70-85MS	BF138909.D	10 Aug 2024 14:48		RC/JU	Ok
11	P3415-05MSD	MLS-15-70-85MSD	BF138910.D	10 Aug 2024 15:19		RC/JU	Ok
12	P3476-01	MUL04	BF138911.D	10 Aug 2024 15:49		RC/JU	Ok
13	P3466-04	932-K1-WP0-0.25-0802	BF138912.D	10 Aug 2024 16:20		RC/JU	Ok
14	P3466-05	919-J-WP0-0.25-08022	BF138913.D	10 Aug 2024 16:51		RC/JU	Ok
15	P3476-07	MUL07	BF138914.D	10 Aug 2024 17:21	Internal Standard Fail	RC/JU	ReRun
16	P3457-01	924-K1-WS-080224	BF138915.D	10 Aug 2024 17:52		RC/JU	Ok
17	P3457-02	932-K1-WS-080224	BF138916.D	10 Aug 2024 18:22		RC/JU	Ok
18	P3466-01	924-K1-WP0-0.25-0802	BF138917.D	10 Aug 2024 18:53		RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF081024

Review By	Jagrut	Review On	8/12/2024 5:10:00 PM		
Supervise By	mohammad	Supervise On	8/13/2024 5:17:21 AM		
SubDirectory	BF081024	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12039,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3466-02MS	924-K1-WP0-0.25-0802	BF138918.D	10 Aug 2024 19:23	MSD not ok	RC/JU	Not Ok
20	P3466-03MSD	924-K1-WP0-0.25-0802	BF138919.D	10 Aug 2024 19:54	Internal Standard Fail	RC/JU	Not Ok
21	P3476-03	MUL05	BF138920.D	10 Aug 2024 20:24		RC/JU	Ok
22	P3476-05	MUL06	BF138921.D	10 Aug 2024 20:54	Internal Standard Fail	RC/JU	ReRun
23	P3467-01	919-J-WS-080224	BF138922.D	10 Aug 2024 21:25		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF081424

Review By	Jagrut	Review On	8/15/2024 10:26:10 AM		
Supervise By	mohammad	Supervise On	8/16/2024 3:02:17 AM		
SubDirectory	BF081424	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12041,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF138987.D	14 Aug 2024 11:33		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF138988.D	14 Aug 2024 12:03		RC/JU	Ok,M
3	PB162577BL	PB162577BL	BF138989.D	14 Aug 2024 12:32		RC/JU	Ok
4	PB162577BS	PB162577BS	BF138990.D	14 Aug 2024 13:02		RC/JU	Ok,M
5	P3474-01	WC-A1-COMP	BF138991.D	14 Aug 2024 13:37		RC/JU	Ok
6	P3474-10	WC-B2-COMP	BF138992.D	14 Aug 2024 14:08		RC/JU	Ok
7	P3512-05	931-KI-SD-0.5-1.0-0807	BF138993.D	14 Aug 2024 14:38		RC/JU	Ok
8	P3512-06	931-KI-SD-0.5-1.0-0807	BF138994.D	14 Aug 2024 15:09		RC/JU	Ok
9	P3543-01	ARS20-0019	BF138995.D	14 Aug 2024 15:40	Surrogate Fail	RC/JU	Ok
10	P3548-01	72-12017-72-11934	BF138996.D	14 Aug 2024 16:10		RC/JU	Ok
11	P3548-03	RBR200036	BF138997.D	14 Aug 2024 16:42		RC/JU	Ok,M
12	P3548-06	343	BF138998.D	14 Aug 2024 17:12	Internal standard fail	RC/JU	ReRun
13	P3548-12	IN-SITU-SOIL	BF138999.D	14 Aug 2024 17:43	Internal standard fail	RC/JU	ReRun
14	P3548-09	289	BF139000.D	14 Aug 2024 18:14		RC/JU	Ok
15	P3549-01	SU-04-080924	BF139001.D	14 Aug 2024 18:46	Internal standard fail	RC/JU	Ok,M
16	P3476-07RE	MUL07RE	BF139002.D	14 Aug 2024 19:16	Internal Standard Fail	RC/JU	Confirms
17	P3476-05RE	MUL06RE	BF139003.D	14 Aug 2024 19:46	Fax is already given	RC/JU	Confirms
18	P3466-02MS	924-K1-WP0-0.25-0802	BF139004.D	14 Aug 2024 20:16		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 # BF081424

Review By	Jagrut	Review On	8/15/2024 10:26:10 AM		
Supervise By	mohammad	Supervise On	8/16/2024 3:02:17 AM		
SubDirectory	BF081424	HP Acquire Method	BNA_F	HP Processing Method	bf073024

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557
CCC	SP6553
Internal Standard/PEM	S12041,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3466-03MSD	924-K1-WP0-0.25-0802	BF139005.D	14 Aug 2024 20:47		RC/JU	Ok
20	P3475-01	S-866-N-S0-0-0.5-0805	BF139006.D	14 Aug 2024 21:17	Internal Standard Fail	RC/JU	ReRun
21	P3475-02	S-866-N-S0-1.0-1.5-08(	BF139007.D	14 Aug 2024 21:47	Internal Standard Fail	RC/JU	Ok,M
22	P3475-03MS	S-866-N-S0-1.0-1.5-08(	BF139008.D	14 Aug 2024 22:17	Internal Standard Fail,	RC/JU	Ok,M
23	P3475-04MSD	S-866-N-S0-1.0-1.5-08(	BF139009.D	14 Aug 2024 22:47	Internal Standard Fail,	RC/JU	Ok,M
24	P3526-01	SP-1-COMP	BF139010.D	14 Aug 2024 23:18	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB162489

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Extraction Start Date : 08/05/2024

Matrix : Water

Extraction Start Time : 08:25

Weigh By: N/A

Extraction By: RP

Extraction End Date : 08/05/2024

Balance check: N/A

Filter By: RS

Extraction End Time : 15:45

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3574

Hood ID: 4,6,7

Supervisor By : rajesh

Extraction Method: ☑ Seperatory Funne ☐ 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	SP6525
Surrogate	1.0ML	100/150 PPM	SP6524
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3786
Baked Na2SO4	N/A	EP2519
10N NaoH	N/A	EP2514
H2SO4 1:1	N/A	EP2499
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.p H Adjusted<2 with1:1 H2SO4&>11 with 10 N NaOH. P3466,3467,3468,3469 Added in batch at10:45.

KD Bath ID: Water bath -01,02

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/05/24	RP (Ext. Lab)	RC/SVOC
15:50	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB162489

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 08/05/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By: AddedBy	Surr/Spike By: VerifiedBy	Final Vol.(mL)	JarID	Comments	Prep Pos
PB162489BL	SBLK489	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			SEP-01
PB162489BS	SLCS489	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			2
P3457-01	924-KI-WS-080224	SVOCMS Group6	970	6	RUPESH	rajesh	1	F		3
P3457-02	932-KI-WS-080224	SVOCMS Group6	970	6	RUPESH	rajesh	1	F		4
P3458-02	EB-70-150	SVOC-TCL BNA -20	970	6	RUPESH	rajesh	1	D		5
P3458-03	MLS-15-224-239	SVOC-TCL BNA -20	970	6	RUPESH	rajesh	1	D		6
P3458-04	MLS-15-257-272	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1	D		7
P3459-01	EB-224-375	SVOC-TCL BNA -20	990	6	RUPESH	rajesh	1	A		8
P3459-02	MLS-15-360-375	SVOC-TCL BNA -20	990	6	RUPESH	rajesh	1	A		9
P3459-03	MLS-15-383-398	SVOC-TCL BNA -20	990	6	RUPESH	rajesh	1	A		10
P3466-01	924-K1-WPO-0.25-080224	SVOCMS Group6	940	6	RUPESH	rajesh	1	C		11
P3466-02	P3466-01MS	SVOCMS Group6	980	6	RUPESH	rajesh	1	C		12
P3466-03	P3466-01MSD	SVOCMS Group6	950	6	RUPESH	rajesh	1	C		13
P3466-04	932-K1-WPO-0.25-080224	SVOCMS Group6	920	6	RUPESH	rajesh	1	C		14
P3466-05	919-J-WPO-0.25-080224	SVOCMS Group6	900	6	RUPESH	rajesh	1	C		15
P3467-01	919-J-WS-080224	SVOCMS Group6	950	6	RUPESH	rajesh	1	E		16
P3468-02	MLS-15-682-697	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1	A		17
P3469-01	MLS-15-513-528	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1	D		18
P3469-02	MLS-15-625-640	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1	D		S

* **Extracts relinguished on the same date as received.**

8/5/24

16250
8:25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3457 **WorkList ID :** 182345 **Department :** Extraction **Date :** 08-05-2024 08:15:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3457-01	924-KI-WS-080224	Water	SVOCMS Group6	Cool 4 deg C	JACO05	J21	08/02/2024	8270E
P3457-02	932-KI-WS-080224	Water	SVOCMS Group6	Cool 4 deg C	JACO05	J21	08/02/2024	8270E
P3458-02	EB-70-150	Water	SVOC-TCL BNA -20	Cool 4 deg C	TECH05	D31	07/31/2024	8270E
P3458-03	MLS-15-224-239	Water	SVOC-TCL BNA -20	Cool 4 deg C	TECH05	D31	08/01/2024	8270E
P3458-04	MLS-15-257-272	Water	SVOC-TCL BNA -20	Cool 4 deg C	TECH05	D31	08/01/2024	8270E
P3459-01	EB-224-375	Water	SVOC-TCL BNA -20	Cool 4 deg C	TECH05	N31	08/01/2024	8270E
P3459-02	MLS-15-360-375	Water	SVOC-TCL BNA -20	Cool 4 deg C	TECH05	N31	08/01/2024	8270E
P3459-03	MLS-15-383-398	Water	SVOC-TCL BNA -20	Cool 4 deg C	TECH05	N31	08/02/2024	8270E

Date/Time 08/05/24 8:20
Raw Sample Received by: KP (Sex Lab)
Raw Sample Relinquished by: JY (SM)

Date/Time 08/05/24 8:55
Raw Sample Received by: JY (SM)
Raw Sample Relinquished by: KP (Sex Lab)

16859
10:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3459S **WorkList ID :** 182371 **Department :** Extraction **Date :** 08-05-2024 10:45:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3466-01	924-K1-WPO-0.25-080224	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/02/2024	8270E
P3466-02	P3466-01MS	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/02/2024	8270E
P3466-03	P3466-01MSD	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/02/2024	8270E
P3466-04	932-K1-WPO-0.25-080224	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/02/2024	8270E
P3466-05	919-J-WPO-0.25-080224	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	08/02/2024	8270E
P3467-01	919-J-WS-080224	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D21	08/02/2024	8270E
P3468-02	MLS-15-682-697	Water	SVOC-TCL BNA -20	Cool 4 deg C	TECH05	D21	08/02/2024	8270E
P3469-01	MLS-15-513-528	Water	SVOC-TCL BNA -20	Cool 4 deg C	TECH05	D21	08/02/2024	8270E
P3469-02	MLS-15-625-640	Water	SVOC-TCL BNA -20	Cool 4 deg C	TECH05	D21	08/02/2024	8270E

Date/Time 08/05/24 10:45
Raw Sample Received by: RS (Set 105)
Raw Sample Relinquished by:

Date/Time 08/05/24 11:10
Raw Sample Received by:
Raw Sample Relinquished by: RS (Set 105)

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

Prep Standard - Chemical Standard Summary

Order ID : P3467

Test : SVOCMS Group6

Prepbatch ID : PB162489,

Sequence ID/Qc Batch ID: BF080924,BF081024,BF081424,

Standard ID :
EP2499,EP2514,EP2519,SP6524,SP6525,SP6549,SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557,SP6558,SP6559,SP6573,

Chemical ID :
10ul/1000ul
sample,E3551,E3657,E3744,E3746,E3753,E3768,E3786,M5037,S10102,S10247,S10398,S10591,S10972,S10973,S10974,S10975,S10976,S10977,S10996,S10997,S10998,S10999,S11000,S11001,S11002,S11003,S11012,S11092,S11096,S11102,S11136,S11148,S11434,S11546,S11548,S11554,S11557,S11560,S11563,S11564,S11565,S11566,S11762,S11763,S11764,S11765,S11766,S11898,S11899,S11900,S11901,S11902,S11903,S11904,S11905,S11906,S12033,S12039,S12041,S12076,S12088,S12089,S12090,S12091,S12092,S12093,S12094,S12095,S12096,S12097,S12112,S12117,S9675,W2606,W3112,

Alliance TECHNICAL GROUP

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2499	06/17/2024	10/24/2024	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 06/17/2024

FROM 1000.00000ml of M5037 + 1000.00000ml of W2606 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2514	07/17/2024	01/17/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 07/17/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2519	08/02/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 08/02/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6524	05/31/2024	11/29/2024	Jagrut Upadhyay	None	None	Yogesh Patel 06/13/2024

FROM 1930.00000ml of E3744 + 2.90000ml of S11003 + 3.00000ml of S10977 + 5.30000ml of S10996 + 5.30000ml of S10997 + 5.30000ml of S10998 + 5.30000ml of S10999 + 5.30000ml of S11000 + 5.30000ml of S11001 + 5.30000ml of S11002 + 5.40000ml of S10972 + 5.40000ml of S10973 + 5.40000ml of S10974 + 5.40000ml of S10975 + 5.40000ml of S10976 = Final Quantity: 2000.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
171	8270/625 Spike Solution, 50/100 PPM	SP6525	06/05/2024	08/29/2024	Rahul Chavli	None	None	Yogesh Patel 06/13/2024

FROM 0.20000ml of S11902 + 0.20000ml of S12117 + 0.40000ml of S10398 + 0.40000ml of S10591 + 0.40000ml of S11012 + 0.40000ml of S11136 + 0.40000ml of S11901 + 0.40000ml of S9675 + 0.50000ml of S12096 + 0.70000ml of S12089 + 0.80000ml of S11546 + 0.80000ml of S11566 + 0.90000ml of S11557 + 0.90000ml of S11762 + 0.90000ml of S12088 + 1.10000ml of S11564 + 1.20000ml of S11548 + 1.20000ml of S11554 + 1.20000ml of S11563 + 1.20000ml of S11903 + 1.20000ml of S11905 + 1.20000ml of S12094 + 1.30000ml of S11565 + 1.30000ml of S11763 + 1.30000ml of S11765 + 1.30000ml of S11899 + 1.30000ml of S11900 + 1.30000ml of S11904 + 1.30000ml of S12091 + 1.30000ml of S12092 + 1.30000ml of S12095 + 1.40000ml of S11906 + 1.40000ml of S12090 + 1.40000ml of S12093 + 1.50000ml of S11560 + 1.50000ml of S11764 + 1.50000ml of S11898 + 163.00000ml of E3753 = 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	SP6549	07/09/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/09/2024

FROM 0.26700ml of S10102 + 0.40000ml of S11434 + 0.50000ml of S12112 + 1.00000ml of S11092 + 1.00000ml of S11096 + 1.00000ml of S11102 + 1.00000ml of S11148 + 1.00000ml of S12076 + 3.83300ml of E3746 = 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	SP6550	07/09/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/09/2024

FROM 0.01000ml of S12033 + 0.20000ml of E3746 + 0.80000ml of SP6549 = 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	SP6551	07/09/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/09/2024

FROM 0.01000ml of S12033 + 0.40000ml of E3746 + 0.60000ml of SP6549 = 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	SP6552	07/09/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/09/2024

FROM 0.01000ml of S12033 + 0.50000ml of E3746 + 0.50000ml of SP6549 = 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	SP6553	07/09/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/09/2024

FROM 0.01000ml of S12033 + 0.60000ml of E3746 + 0.40000ml of SP6549 = 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	SP6554	07/09/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/09/2024

FROM 0.01000ml of S12033 + 0.80000ml of E3746 + 0.20000ml of SP6549 = 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	SP6555	07/09/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/09/2024

FROM 0.01000ml of S12033 + 0.90000ml of E3746 + 0.10000ml of SP6549 = 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	SP6556	07/09/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/09/2024

FROM 0.01000ml of S12033 + 0.95000ml of E3746 + 0.05000ml of SP6549 = 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	SP6557	07/09/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/09/2024

FROM 0.01000ml of S12033 + 0.50000ml of E3746 + 0.50000ml of SP6556 = 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
18	Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP)	SP6558	07/09/2024	11/30/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.04000ml of S10977 + 0.08000ml of S11003 + 0.10000ml of S11766 + 0.20000ml of S11566 + 0.20000ml of S12097 + 0.20000ml of S12117 + 1.18000ml of E3768 = Final Quantity: 2.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
416	40 ng BNA ICV, 40 PPM	SP6559	07/09/2024	11/30/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.01000ml of S12033 + 0.60000ml of E3768 + 0.40000ml of SP6558 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel 07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H14626005	11/29/2024	05/29/2024 / Rajesh	05/23/2024 / Rajesh	E3744

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)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746

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)	23H1462005	12/01/2024	06/01/2024 / Rajesh	05/31/2024 / Rajesh	E3753

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)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24F1062004	02/01/2025	08/01/2024 / Rajesh	07/16/2024 / Rajesh	E3786

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

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	09/29/2024	03/29/2024 / Jagrut	12/09/2021 / Christian	S10102

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	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

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	10/26/2024	04/26/2024 / Rahul	05/18/2022 / Christian	S10398

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	08/29/2024	02/29/2024 / Jagrut	07/05/2022 / Christian	S10591

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	A0188108	08/31/2030	05/31/2024 / Jagrut	12/28/2022 / Christian	S10972

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10973

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10974

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10975

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10976

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

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	08/31/2028	05/31/2024 / Jagrut	12/28/2022 / Christian	S10996

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10997

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10998

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10999

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11000

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11001

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11002

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	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

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]	A0193449	10/26/2024	04/26/2024 / Rahul	01/13/2023 / Christian	S11012

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	01/09/2025	07/09/2024 / Jagrut	02/07/2023 / Christian	S11092

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	01/09/2025	07/09/2024 / Jagrut	02/07/2023 / Christian	S11096

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	01/09/2025	07/09/2024 / Jagrut	02/07/2023 / Christian	S11102

Alliance TECHNICAL GROUP

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	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0194698	08/29/2024	02/29/2024 / Jagrut	02/20/2023 / Christian	S11136

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	01/09/2025	07/09/2024 / Jagrut	03/06/2023 / Christian	S11148

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	503442	08/26/2024	07/09/2024 / Jagrut	07/26/2023 / yogesh	S11434

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]	A0201940	10/26/2024	04/26/2024 / Rahul	09/18/2023 / Kiran	S11546

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]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11548

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]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11554

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]	A0201940	11/16/2024	05/16/2024 / Jagrut	09/18/2023 / Kiran	S11557

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]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11560

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]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11563

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]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11564

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]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11565

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]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

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	11/13/2024	05/13/2024 / Jagrut	11/21/2023 / Rahul	S11762

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	12/05/2024	06/05/2024 / Rahul	11/21/2023 / Rahul	S11763

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	12/05/2024	06/05/2024 / Rahul	11/21/2023 / Rahul	S11764

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	12/05/2024	06/05/2024 / Rahul	11/21/2023 / Rahul	S11765

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	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

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]	A0197982	11/30/2024	06/05/2024 / Rahul	11/21/2023 / rahul	S11898

Alliance TECHNICAL GROUP

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]	A0197982	11/30/2024	06/05/2024 / Rahul	11/21/2023 / rahul	S11899

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]	A0197982	11/30/2024	06/05/2024 / Rahul	11/21/2023 / rahul	S11900

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]	A0197982	10/26/2024	04/26/2024 / Rahul	11/21/2023 / rahul	S11901

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]	A0197982	11/16/2024	05/16/2024 / Jagrut	11/21/2023 / rahul	S11902

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]	A0197982	11/30/2024	06/05/2024 / Rahul	11/21/2023 / rahul	S11903

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]	A0197982	11/30/2024	06/05/2024 / Rahul	11/21/2023 / rahul	S11904

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]	A0197982	11/30/2024	06/05/2024 / Rahul	11/21/2023 / rahul	S11905

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]	A0197982	11/30/2024	06/05/2024 / Rahul	11/21/2023 / rahul	S11906

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	A0201320	01/01/2025	07/01/2024 / Rahul	12/21/2023 / Rahul	S12033

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	A0201320	02/07/2025	08/07/2024 / anahy	12/21/2023 / Rahul	S12039

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	A0201320	02/13/2025	08/13/2024 / anahy	12/21/2023 / Rahul	S12041

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	01/09/2025	07/09/2024 / Jagrut	01/31/2024 / Rahul	S12076

Alliance TECHNICAL GROUP

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]	A0207706	10/26/2024	04/26/2024 / Rahul	02/05/2024 / Rahul	S12088

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]	A0207706	11/16/2024	05/16/2024 / Jagrut	02/05/2024 / Rahul	S12089

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]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12090

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]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12091

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]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12092

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]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12093

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]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12094

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]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12095

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]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

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]	A0207706	01/09/2025	07/09/2024 / Jagrut	02/05/2024 / Rahul	S12097

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	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

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	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0175226	08/31/2024	06/05/2024 / Rahul	08/12/2021 / Christian	S9675

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG
S11084
to
S11088

*Not a certified value

Certified By: Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined 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-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.

Received on 02/07/23 by CG

~~S11069~~ S11096 to S11099

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	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 495831 **Expiration Date:** 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °C	Methylene Chloride	1/16/2028	Benzaldehyde Solution, 1000 mg/L, 1.3 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
benzaldehyde	100-52-7	98.3	442.421.1P	996.8 ± 11.49

Received on
02/07/23
by CG

S11101
to
S11103

*Not a certified value

Certified By: S. Hunter

Scott Hunter
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/12/21 by CG S 9671 to S9675

Catalog No. : 555869 **Lot No.:** A0175226

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2024 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Hexachlorocyclopentadiene		25,032.0	µg/mL	+/-	231.6508	µg/mL	Gravimetric
	CAS # 77-47-4	(Lot 0012019)			+/-	1,251.3257	µg/mL	Unstressed
	Purity 99%				+/-	1,281.8032	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Lane Kibe - Mix Technician **Date Mixed:** 09-Aug-2021 **Balance:** B345965662

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

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/18/22 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)

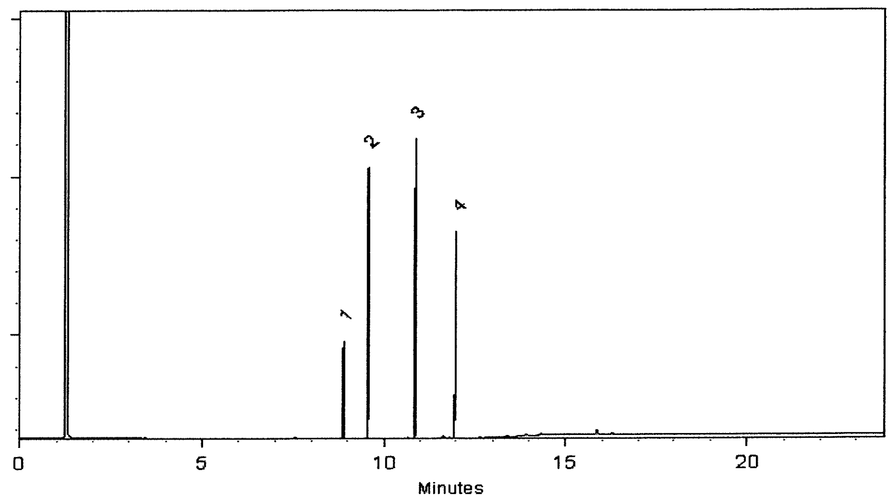
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Marlina 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

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 05/18/22

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 McGinni - 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

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 07/05/22 S10583 to S10592

Catalog No. : 555868 **Lot No.:** A0186373

Description : Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzidine		25,200.0 µg/mL	+/- 233.2055	µg/mL	Gravimetric
	CAS # 92-87-5	(Lot 220511RSR)		+/- 351.6606	µg/mL	Unstressed
	Purity 99%			+/- 512.6054	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 16-Jun-2022 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 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		10,088.5 µg/mL	+/- 58.6554	µg/mL	Gravimetric
	CAS # 367-12-4	(Lot STBF3761V)		+/- 294.4162	µg/mL	Unstressed
	Purity 99%			+/- 357.2628	µg/mL	Stressed
2	Phenol-d6		10,043.3 µg/mL	+/- 58.3923	µg/mL	Gravimetric
	CAS # 13127-88-3	(Lot PR-31262)		+/- 293.0957	µg/mL	Unstressed
	Purity 99%			+/- 355.6603	µg/mL	Stressed
3	2,4,6-Tribromophenol		10,010.0 µg/mL	+/- 58.1990	µg/mL	Gravimetric
	CAS # 118-79-6	(Lot MKCJ7664)		+/- 292.1253	µg/mL	Unstressed
	Purity 99%			+/- 354.4829	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

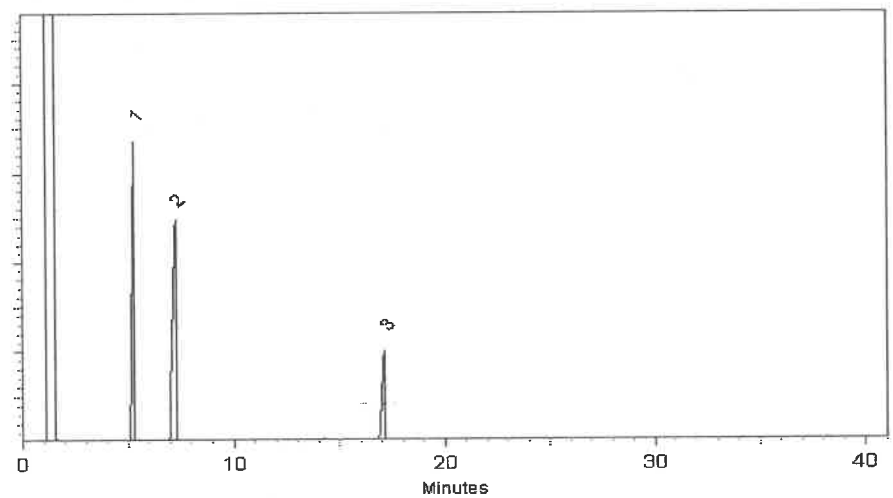
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 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 +/- 294.4162 +/- 357.2628	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 +/- 293.0957 +/- 355.6603	µg/mL µg/mL 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 +/- 292.1253 +/- 354.4829	µg/mL µg/mL 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)

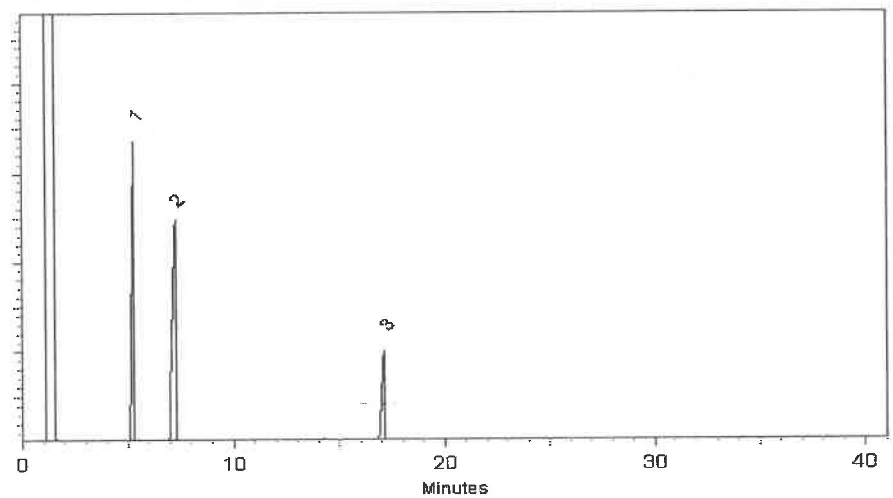
Carrier Gas:
hydrogen-constant pressure 10 psi.

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® **CERTIFIED REFERENCE MATERIAL**

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 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 +/- 294.4162 +/- 357.2628	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 +/- 293.0957 +/- 355.6603	µg/mL µg/mL 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 +/- 292.1253 +/- 354.4829	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

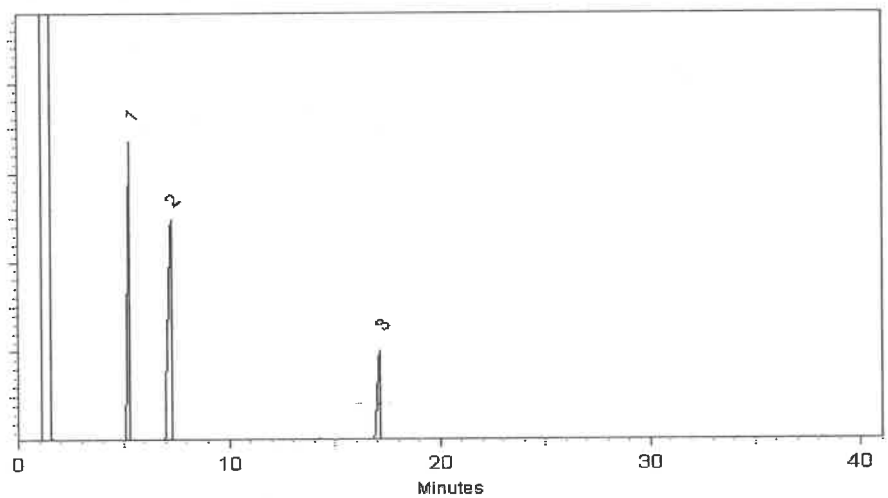
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician | **Date Mixed:** 02-Aug-2022 | **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC | **Date Passed:** 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309
www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 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 +/- 294.4162 +/- 357.2628	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 +/- 293.0957 +/- 355.6603	µg/mL µg/mL 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 +/- 292.1253 +/- 354.4829	µg/mL µg/mL 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)

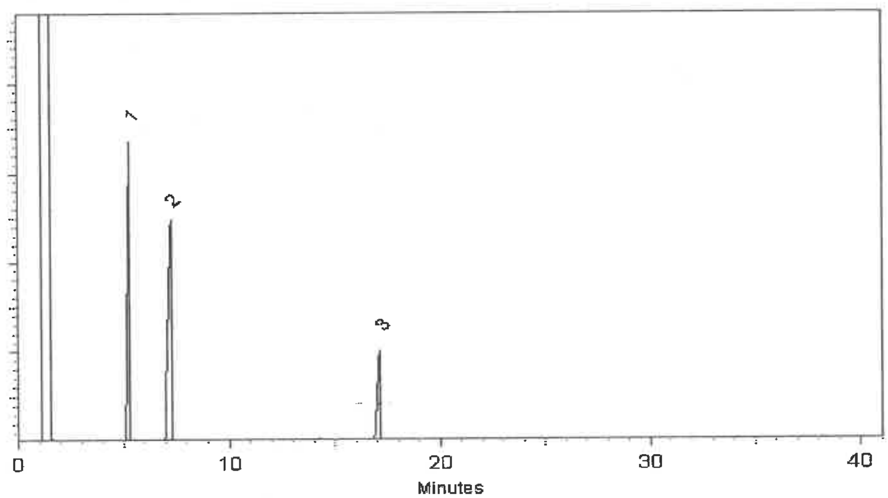
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 **CERTIFIED REFERENCE MATERIAL**

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

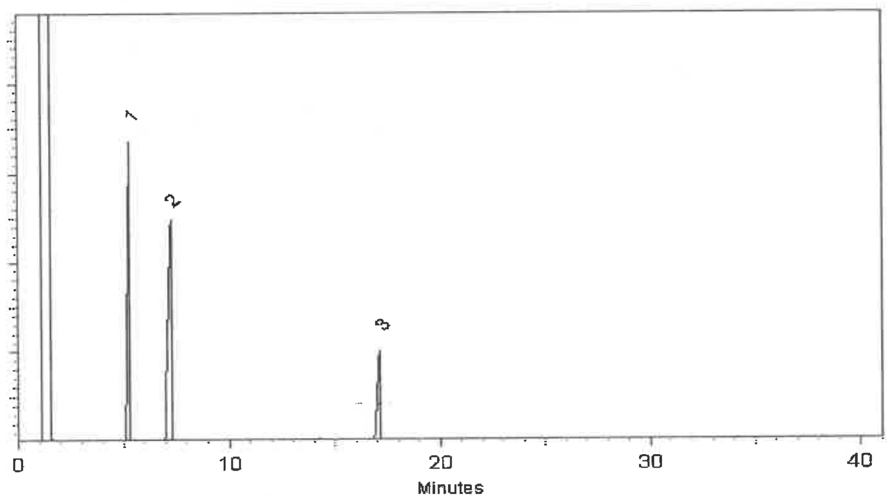
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician   **Date Mixed:** 02-Aug-2022   **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC   **Date Passed:** 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309
www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 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 +/- 294.4162 +/- 357.2628	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 +/- 293.0957 +/- 355.6603	µg/mL µg/mL 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 +/- 292.1253 +/- 354.4829	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

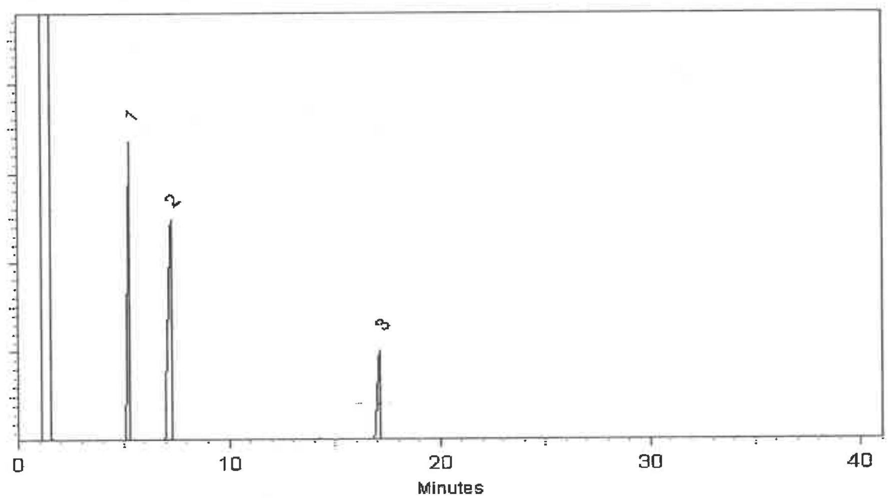
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician **Date Mixed:** 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
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		5,009.8 µg/mL	+/- 29.1271	µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421	µg/mL	Unstressed
	Purity 99%			+/- 250.3778	µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250	µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003	µg/mL	Unstressed
	Purity 99%			+/- 251.2191	µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304	µg/mL	Unstressed
	Purity 99%			+/- 251.2524	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

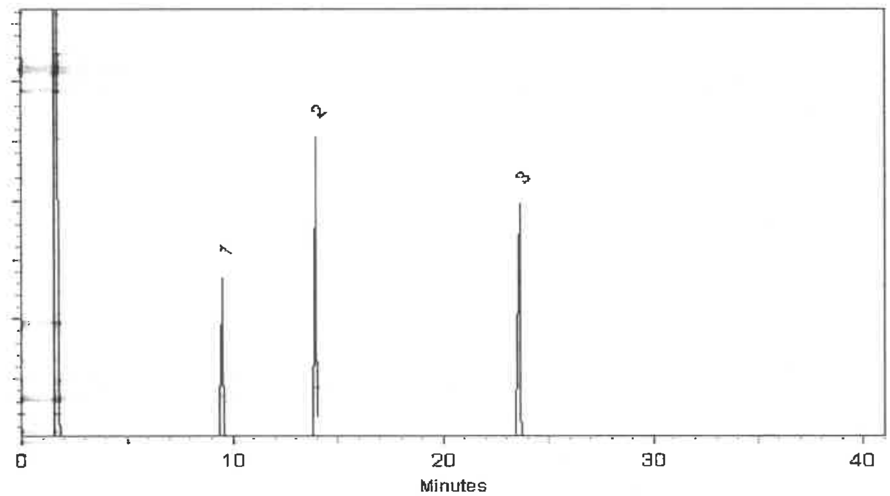
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I   **Date Mixed:** 09-Sep-2022   **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC   **Date Passed:** 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
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		5,009.8 µg/mL	+/- 29.1271	µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421	µg/mL	Unstressed
	Purity 99%			+/- 250.3778	µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250	µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003	µg/mL	Unstressed
	Purity 99%			+/- 251.2191	µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304	µg/mL	Unstressed
	Purity 99%			+/- 251.2524	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

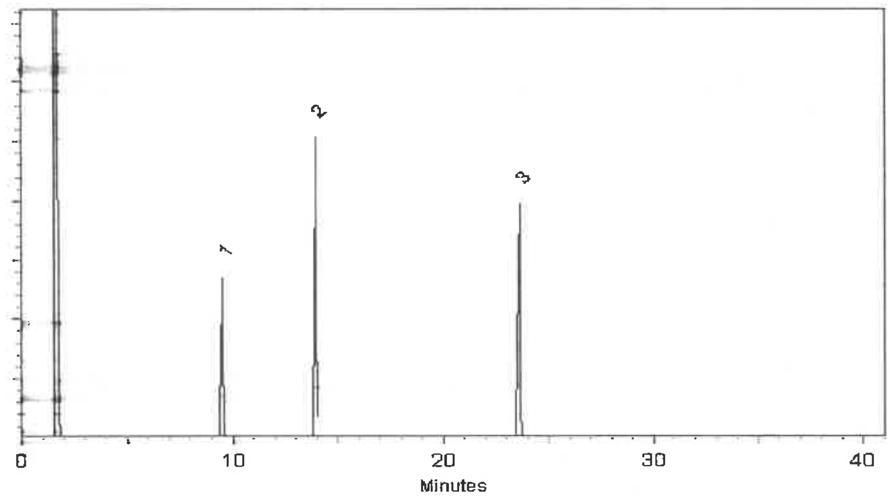
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I | **Date Mixed:** 09-Sep-2022 | **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC | **Date Passed:** 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
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		5,009.8 µg/mL	+/- 29.1271	µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421	µg/mL	Unstressed
	Purity 99%			+/- 250.3778	µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250	µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003	µg/mL	Unstressed
	Purity 99%			+/- 251.2191	µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304	µg/mL	Unstressed
	Purity 99%			+/- 251.2524	µg/mL	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)

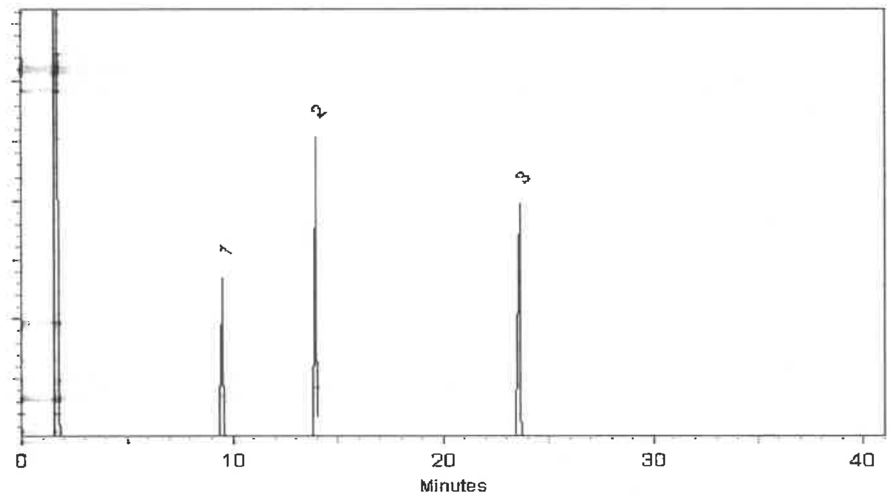
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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		5,009.8 µg/mL	+/- 29.1271 µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421 µg/mL	Unstressed
	Purity 99%			+/- 250.3778 µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250 µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003 µg/mL	Unstressed
	Purity 99%			+/- 251.2191 µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289 µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304 µg/mL	Unstressed
	Purity 99%			+/- 251.2524 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

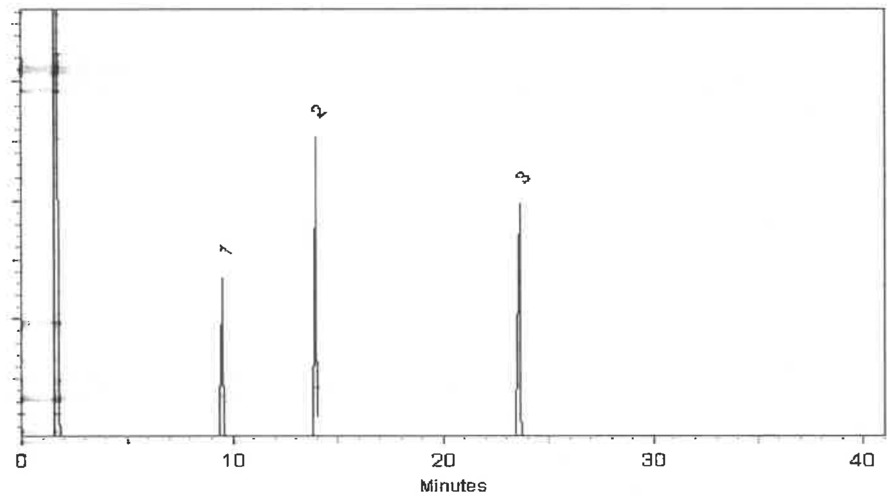
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I — **Date Mixed:** 09-Sep-2022 — **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC — **Date Passed:** 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
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		5,009.8 µg/mL	+/- 29.1271 µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421 µg/mL	Unstressed
	Purity 99%			+/- 250.3778 µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250 µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003 µg/mL	Unstressed
	Purity 99%			+/- 251.2191 µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289 µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304 µg/mL	Unstressed
	Purity 99%			+/- 251.2524 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

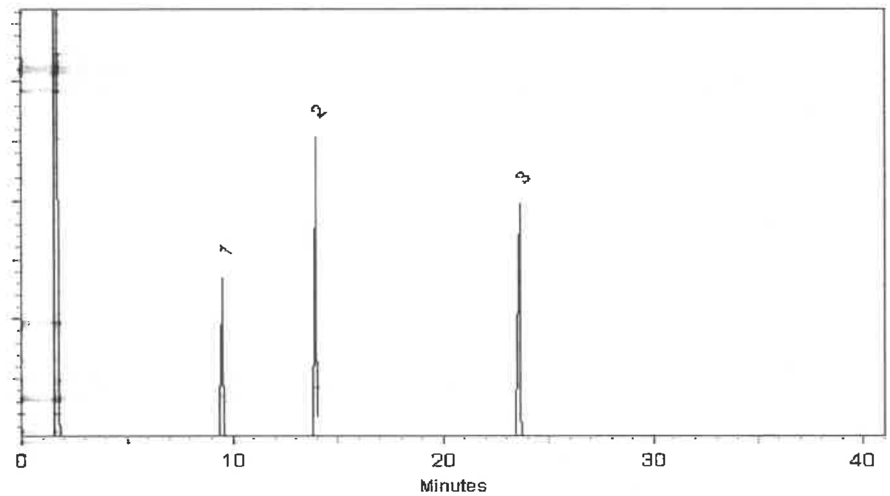
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I | **Date Mixed:** 09-Sep-2022 | **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC | **Date Passed:** 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
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			5,009.8	µg/mL	+/-	29.1271	µg/mL	Gravimetric
	CAS #	4165-60-0	(Lot PR-29940A)			+/-	225.6421	µg/mL	Unstressed
	Purity	99%				+/-	250.3778	µg/mL	Stressed
2	2-Fluorobiphenyl			5,026.6	µg/mL	+/-	29.2250	µg/mL	Gravimetric
	CAS #	321-60-8	(Lot 00021384)			+/-	226.4003	µg/mL	Unstressed
	Purity	99%				+/-	251.2191	µg/mL	Stressed
3	p-Terphenyl-d14			5,027.3	µg/mL	+/-	29.2289	µg/mL	Gravimetric
	CAS #	1718-51-0	(Lot PR-30504)			+/-	226.4304	µg/mL	Unstressed
	Purity	99%				+/-	251.2524	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

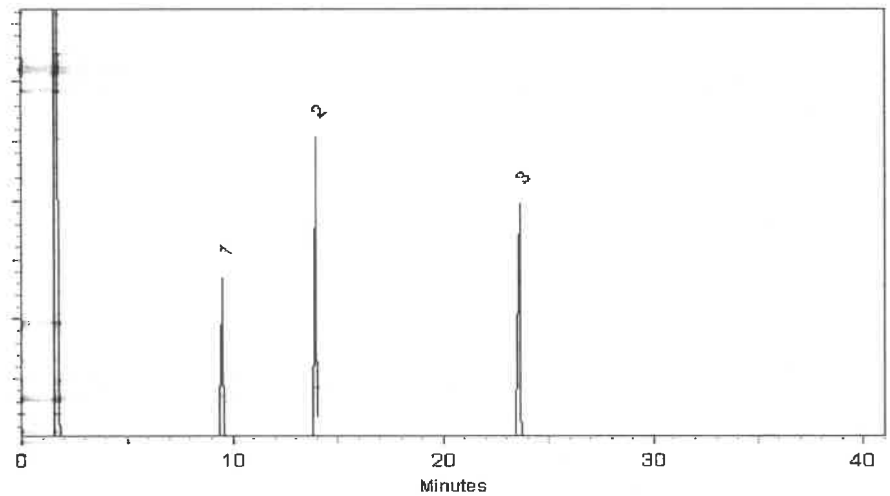
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I | **Date Mixed:** 09-Sep-2022 | **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC | **Date Passed:** 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
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		5,009.8	µg/mL	+/-	29.1271	µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)			+/-	225.6421	µg/mL	Unstressed
	Purity 99%				+/-	250.3778	µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6	µg/mL	+/-	29.2250	µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)			+/-	226.4003	µg/mL	Unstressed
	Purity 99%				+/-	251.2191	µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3	µg/mL	+/-	29.2289	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)			+/-	226.4304	µg/mL	Unstressed
	Purity 99%				+/-	251.2524	µg/mL	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)

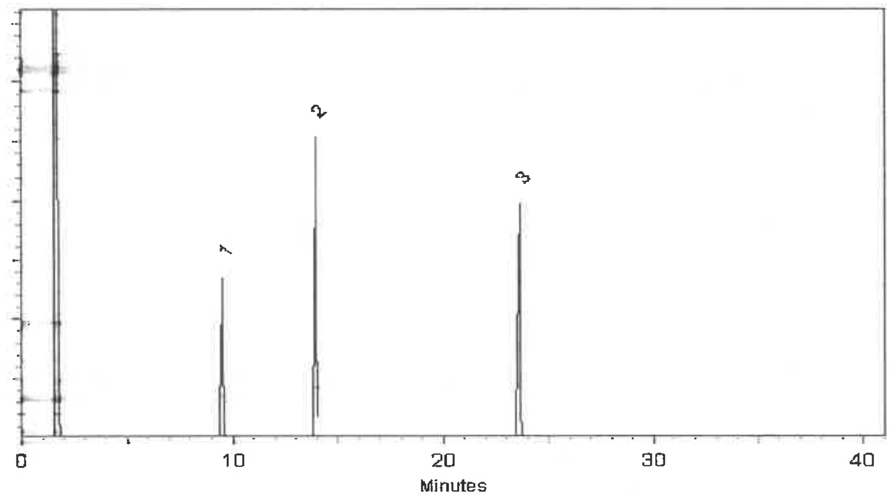
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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)

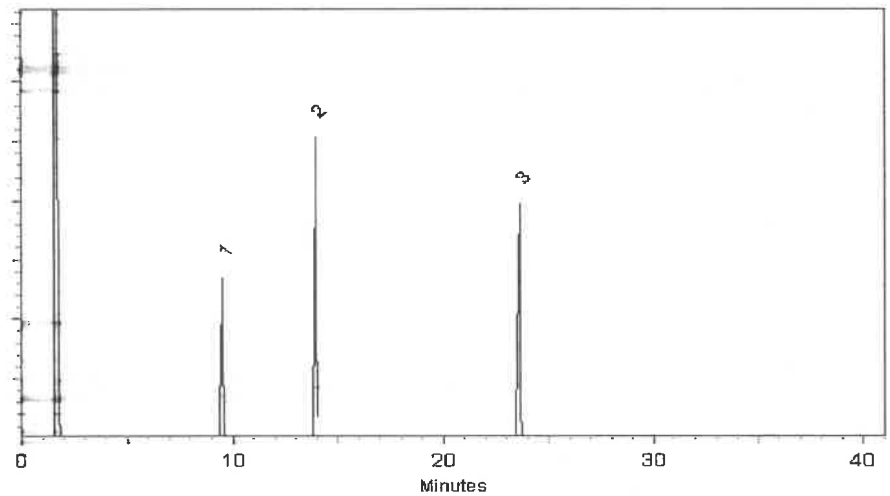
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

ilac-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0193449

Received on 01/13/23 by CG S11011 to S11015

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 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	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I **Date Mixed:** 11-Jan-2023 **Balance:** B442140311

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

ilac-MRA

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.

Re

Catalog No. : 555870 **Lot No.:** A0194698

Description : Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIE

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	2,4-Dinitrophenol	51-28-5	DR221221RSR	99%	25,195.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek'
Registered Quality
Certificate #FM 8

tified Reference Material Notes

:es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ity value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ity 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 inimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily Γ traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability n, 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 dards 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, ides complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

PRODUCTOS
QUIMICOS
MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by RJ on 7/20/23 E3551

RE-02-01, Ed. 3

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 5/23/24

$\boxed{\text{E 3744}}$

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24C0162011
Manufactured Date: 2024-01-04
Expiration Date: 2025-04-04
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 Heptachlor Epoxide) 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	10
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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24A04224

E 3746

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 5/31/24

E3753

Ken Koehnlein
Sr. Manager, Quality Assurance

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
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	0.1 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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

PO: PO1-9448 PRODUCT CODE: SHIP DATE: 7/16/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor J.T.Baker

Material No.: 9266-A4
Batch No.: 24F1062004
Manufactured Date: 2024-04-15
Expiration Date: 2025-07-15
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	7
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	0.1 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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D15750

E 3786

J Croak
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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M5037-38-39-40
nD

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 0000250349
Manufactured Date: 2019/12/17
Retest Date: 2024/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO_2)	<= 2 ppm	< 2
Ammonium (NH_4)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO_3)	<= 0.2 ppm	< 0.1
Phosphate (PO_4)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

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

Test	Specification	Result
Trace Impurities - Iron (Fe)	<= 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

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

S11434 Y.P. 07/20/23

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:__________

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	503442	≤ -10 °C	Methylene Chloride	8/26/2024	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	5052 ± 122.61
2-fluorobiphenyl	321-60-8	99.7	8.7.1.1P	5005 ± 121.47
nitrobenzene-d_5	4165-60-0	100	7.9.2P	5040 ± 122.21
p-terphenyl-d_{14}	1718-51-0	99.6	9.12.9P	5027 ± 122

*Not a certified value

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.

Certified By: Joanna Radu

Joanna Radu
Chemist

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
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

511539
↓
51568

Y.P.
091191

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 : September 30, 2025 **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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Samuel Moodler
Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023 **Balance:** B345965662

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 — ACCREDITED — ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA — ACCREDITED — ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

511539 → 51568

Y.P. / 091191

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Expiration Date : September 30, 2025

Pkg Amt: > 1 mL

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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

Samuel Moodler
Sam Moodler - Operations Tech I

Date Mixed: 13-Sep-2023 **Balance:** B345965662

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 ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

511539 ↓ 511568

Y.P. 091191

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 : September 30, 2025 **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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Sammuel Moodler
Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023 **Balance:** B345965662

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 ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

511539 → 51568

Y.P. 091191

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Expiration Date : September 30, 2025

Handling: This product is photosensitive.

Pkg Amt: > 1 mL

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	3,3'-Dichlorobenzidine	91-94-1	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Sam Moodler
Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023 **Balance:** B345965662

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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

511539 → 51568 Y.P. 091191

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 : September 30, 2025 **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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Samuel Moodler
Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023 **Balance:** B345965662

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
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

511539

↓

51568

Y.P.
091191

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Expiration Date : September 30, 2025 **Pkg Amt:** > 1 mL

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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Sam Moodler
Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023 **Balance:** B345965662

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 ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

S11539 → S11568 Y.P. 091191

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Expiration Date : September 30, 2025

Pkg Amt: > 1 mL

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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Sammuel Moodler
Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023 **Balance:** B345965662

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 ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

511539 → 51568

Y.P. 091191

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 : September 30, 2025 **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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 13-Sep-2023 **Balance:** B345965662

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
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

511539

↓

51568

Y.P.
091191

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Expiration Date : September 30, 2025 **Pkg Amt:** > 1 mL

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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Sam Moodler
Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:
- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:
- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:
- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:
- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:
- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

S11749
↓
S11794

RC
11/30/23

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

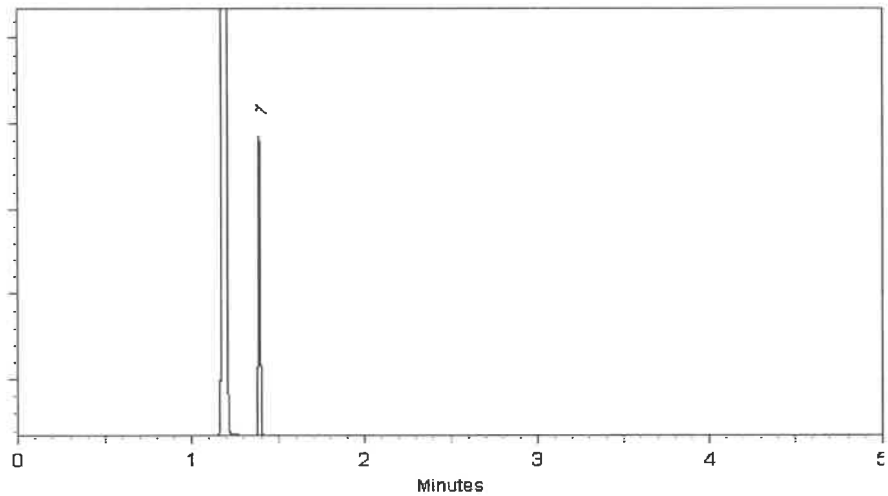
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

S11749
↓
S11794
RC 11/30/23

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

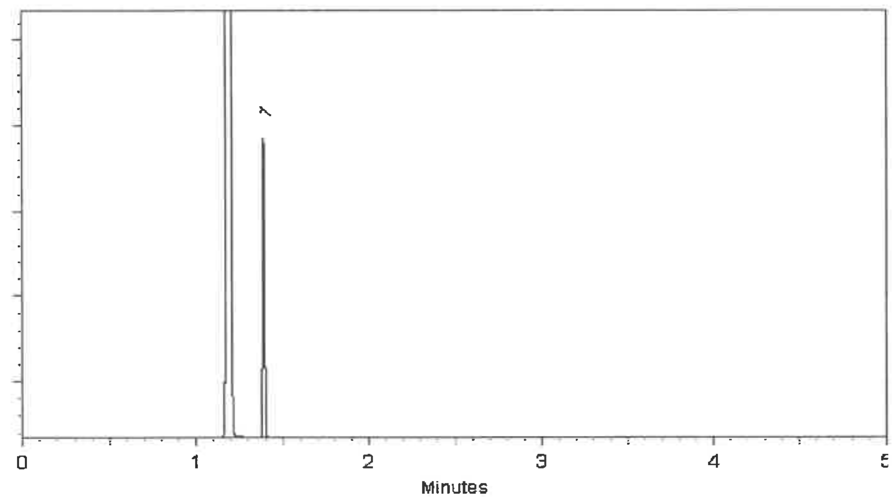
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sammuel Moodler
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

ilac-MRA

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

chromatographic plus

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

S11749
↓
S11794

RC
11/30/23

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

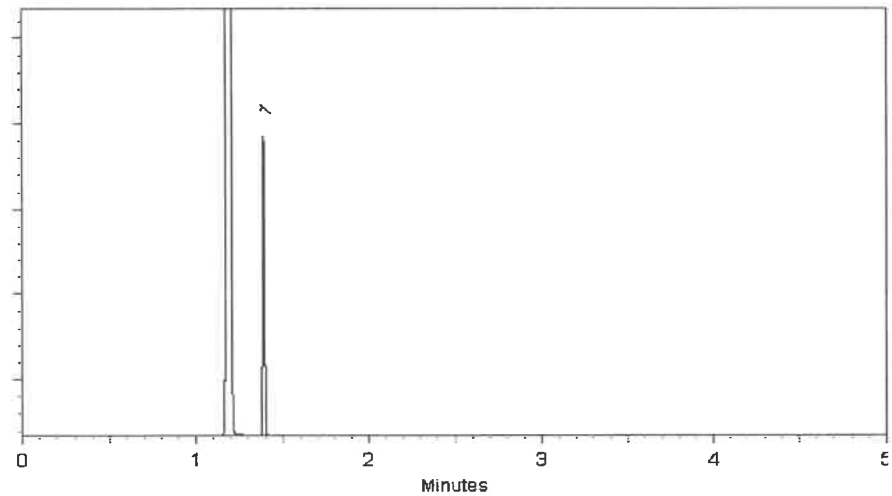
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I — **Date Mixed:** 30-Mar-2023 — **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC — **Date Passed:** 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

chromatographic plus

ilac-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

S11749
↓
S11794
RC
11/30/23

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

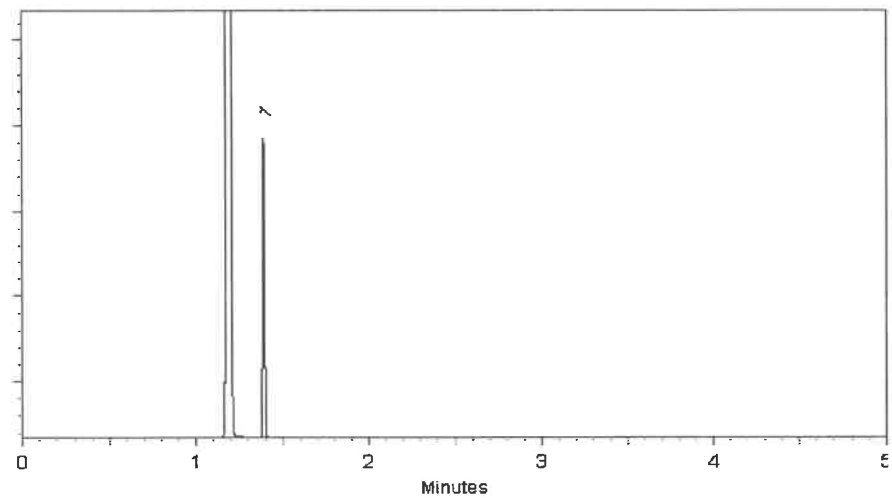
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Samuel Moodler
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.)

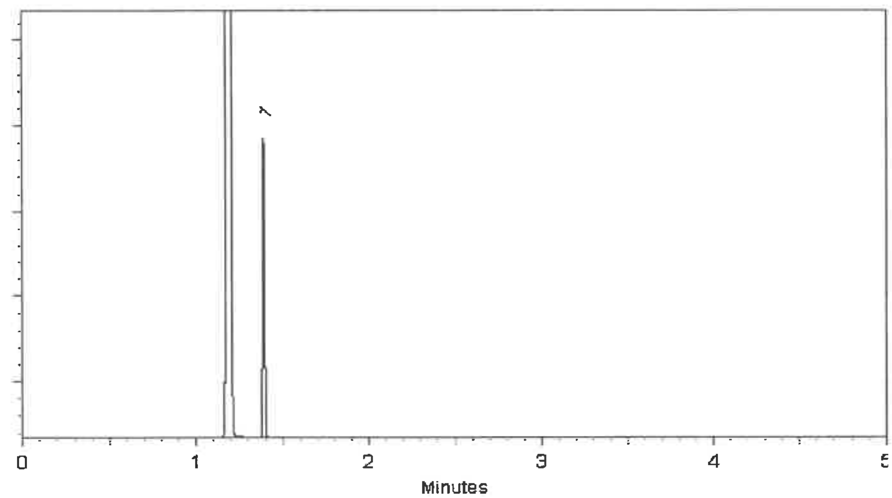
Inj. Temp:
250°C

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

ilac-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

chromatographic plus

ilac-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0197982

S11877
↓
S11906

RC/
11/30/23

Description : 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **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	SHBN7324	99%	1,006.9 µg/mL	+/- 36.6352
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,007.4 µg/mL	+/- 36.6514
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5746
4	Aniline	62-53-3	X22F726	99%	1,004.6 µg/mL	+/- 36.5503
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,005.1 µg/mL	+/- 36.5665
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,007.1 µg/mL	+/- 36.6392
7	1,3-Dichlorobenzene	541-73-1	BCBZ7498	99%	1,006.7 µg/mL	+/- 36.6251
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,005.6 µg/mL	+/- 36.5867
9	Benzyl alcohol	100-51-6	SHBK5943	99%	1,005.4 µg/mL	+/- 36.5786
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,003.9 µg/mL	+/- 36.5240
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,002.3 µg/mL	+/- 36.4654
12	2,2'-oxybis(1-chloropropane)	108-60-1	230329JLM	99%	1,004.3 µg/mL	+/- 36.5402
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2671
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	501.9 µg/mL	+/- 18.2631
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.0 µg/mL	+/- 36.5281
16	Hexachloroethane	67-72-1	QTORH	99%	1,006.1 µg/mL	+/- 36.6029
17	Nitrobenzene	98-95-3	10224044	99%	1,003.1 µg/mL	+/- 36.4957

18	Isophorone	78-59-1	MKCC9506	99%	1,003.8	µg/mL	+/- 36.5220
19	2-Nitrophenol	88-75-5	RP230509C	99%	1,005.8	µg/mL	+/- 36.5948
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,004.2	µg/mL	+/- 36.5341
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,006.3	µg/mL	+/- 36.6130
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,004.0	µg/mL	+/- 36.5281
23	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	1,007.1	µg/mL	+/- 36.6413
24	Naphthalene	91-20-3	MKCH0219	99%	1,006.7	µg/mL	+/- 36.6271
25	4-Chloroaniline	106-47-8	WXBC4601V	99%	1,005.4	µg/mL	+/- 36.5806
26	Hexachlorobutadiene	87-68-3	X05J	99%	1,006.4	µg/mL	+/- 36.6170
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.7	µg/mL	+/- 36.5543
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,002.3	µg/mL	+/- 36.4679
29	1-Methylnaphthalene	90-12-0	5234.00-3	99%	1,000.0	µg/mL	+/- 36.3825
30	Hexachlorocyclopentadiene	77-47-4	0012019	99%	1,006.1	µg/mL	+/- 36.6049
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.9	µg/mL	+/- 36.5604
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,006.5	µg/mL	+/- 36.6176
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.4	µg/mL	+/- 36.5422
34	2-Nitroaniline	88-74-4	RP230509A	99%	1,002.3	µg/mL	+/- 36.4654
35	1,4-Dinitrobenzene	100-25-4	RP230512A	99%	1,001.5	µg/mL	+/- 36.4371
36	Acenaphthylene	208-96-8	L10L	95%	1,003.4	µg/mL	+/- 36.5066
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.8	µg/mL	+/- 36.5564
38	Dimethylphthalate	131-11-3	10117699	99%	1,004.7	µg/mL	+/- 36.5543
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.8	µg/mL	+/- 36.6312
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,006.4	µg/mL	+/- 36.6170
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3825
42	3-Nitroaniline	99-09-2	MKCH5457	99%	1,004.8	µg/mL	+/- 36.5584
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,005.8	µg/mL	+/- 36.5948
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,004.3	µg/mL	+/- 36.5402
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,005.8	µg/mL	+/- 36.5928
46	4-Nitrophenol	100-02-7	RP230511A	99%	1,005.8	µg/mL	+/- 36.5948
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,005.9	µg/mL	+/- 36.5988
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230513	99%	1,004.9	µg/mL	+/- 36.5624
49	Fluorene	86-73-7	10236068	99%	1,005.4	µg/mL	+/- 36.5806
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,004.3	µg/mL	+/- 36.5382
51	Diethylphthalate	84-66-2	BCCD3396	99%	1,007.1	µg/mL	+/- 36.6392
52	4-Nitroaniline	100-01-6	RP220906	99%	1,005.3	µg/mL	+/- 36.5766
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230505JLM	99%	1,003.8	µg/mL	+/- 36.5200

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.5	µg/mL	+/- 36.4735
55	Azobenzene	103-33-3	BCCG7339	98%	1,003.5	µg/mL	+/- 36.5106
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5847
57	Hexachlorobenzene	118-74-1	14257500	99%	1,005.9	µg/mL	+/- 36.5988
58	Pentachlorophenol	87-86-5	RP230504	99%	1,004.2	µg/mL	+/- 36.5362
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,004.1	µg/mL	+/- 36.5321
60	Anthracene	120-12-7	MKCR0570	99%	1,008.3	µg/mL	+/- 36.6857
61	Carbazole	86-74-8	14351100	99%	1,005.1	µg/mL	+/- 36.5665
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.4	µg/mL	+/- 36.6170
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.7	µg/mL	+/- 36.5159
64	Pyrene	129-00-0	BCCG7845	99%	1,004.3	µg/mL	+/- 36.5382
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,003.4	µg/mL	+/- 36.5058
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,003.4	µg/mL	+/- 36.5079
67	Benz(a)anthracene	56-55-3	0012022BAA	97%	1,004.9	µg/mL	+/- 36.5624
68	Chrysene	218-01-9	RP230512B	99%	1,006.2	µg/mL	+/- 36.6089
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,003.8	µg/mL	+/- 36.5220
70	Di-n-octyl phthalate	117-84-0	13994100	99%	1,004.2	µg/mL	+/- 36.5341
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,008.4	µg/mL	+/- 36.6877
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,004.1	µg/mL	+/- 36.5301
73	Benzo(a)pyrene	50-32-8	J6IUE	99%	1,006.4	µg/mL	+/- 36.6170
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,002.0	µg/mL	+/- 36.4557
75	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,006.1	µg/mL	+/- 36.6029
76	Benzo(g,h,i)perylene	191-24-2	RP230511B	98%	1,006.8	µg/mL	+/- 36.6295

* 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.)

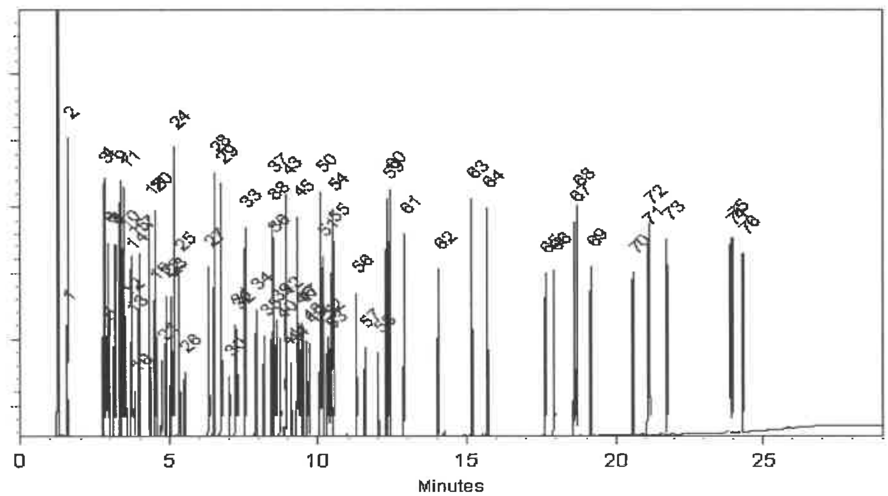
Inj. Temp:
250°C

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.

Tom Suckar - Mix Technician

Date Mixed: 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 18-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309
www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0197982

S11877 ↓ S11906 RC/ 11/30/23

Description : 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **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	SHBN7324	99%	1,006.9 µg/mL	+/- 36.6352
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,007.4 µg/mL	+/- 36.6514
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5746
4	Aniline	62-53-3	X22F726	99%	1,004.6 µg/mL	+/- 36.5503
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,005.1 µg/mL	+/- 36.5665
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,007.1 µg/mL	+/- 36.6392
7	1,3-Dichlorobenzene	541-73-1	BCBZ7498	99%	1,006.7 µg/mL	+/- 36.6251
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,005.6 µg/mL	+/- 36.5867
9	Benzyl alcohol	100-51-6	SHBK5943	99%	1,005.4 µg/mL	+/- 36.5786
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,003.9 µg/mL	+/- 36.5240
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,002.3 µg/mL	+/- 36.4654
12	2,2'-oxybis(1-chloropropane)	108-60-1	230329JLM	99%	1,004.3 µg/mL	+/- 36.5402
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2671
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	501.9 µg/mL	+/- 18.2631
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.0 µg/mL	+/- 36.5281
16	Hexachloroethane	67-72-1	QTORH	99%	1,006.1 µg/mL	+/- 36.6029
17	Nitrobenzene	98-95-3	10224044	99%	1,003.1 µg/mL	+/- 36.4957

18	Isophorone	78-59-1	MKCC9506	99%	1,003.8	µg/mL	+/- 36.5220
19	2-Nitrophenol	88-75-5	RP230509C	99%	1,005.8	µg/mL	+/- 36.5948
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,004.2	µg/mL	+/- 36.5341
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,006.3	µg/mL	+/- 36.6130
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,004.0	µg/mL	+/- 36.5281
23	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	1,007.1	µg/mL	+/- 36.6413
24	Naphthalene	91-20-3	MKCH0219	99%	1,006.7	µg/mL	+/- 36.6271
25	4-Chloroaniline	106-47-8	WXBC4601V	99%	1,005.4	µg/mL	+/- 36.5806
26	Hexachlorobutadiene	87-68-3	X05J	99%	1,006.4	µg/mL	+/- 36.6170
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.7	µg/mL	+/- 36.5543
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,002.3	µg/mL	+/- 36.4679
29	1-Methylnaphthalene	90-12-0	5234.00-3	99%	1,000.0	µg/mL	+/- 36.3825
30	Hexachlorocyclopentadiene	77-47-4	0012019	99%	1,006.1	µg/mL	+/- 36.6049
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.9	µg/mL	+/- 36.5604
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,006.5	µg/mL	+/- 36.6176
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.4	µg/mL	+/- 36.5422
34	2-Nitroaniline	88-74-4	RP230509A	99%	1,002.3	µg/mL	+/- 36.4654
35	1,4-Dinitrobenzene	100-25-4	RP230512A	99%	1,001.5	µg/mL	+/- 36.4371
36	Acenaphthylene	208-96-8	L10L	95%	1,003.4	µg/mL	+/- 36.5066
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.8	µg/mL	+/- 36.5564
38	Dimethylphthalate	131-11-3	10117699	99%	1,004.7	µg/mL	+/- 36.5543
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.8	µg/mL	+/- 36.6312
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,006.4	µg/mL	+/- 36.6170
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3825
42	3-Nitroaniline	99-09-2	MKCH5457	99%	1,004.8	µg/mL	+/- 36.5584
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,005.8	µg/mL	+/- 36.5948
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,004.3	µg/mL	+/- 36.5402
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,005.8	µg/mL	+/- 36.5928
46	4-Nitrophenol	100-02-7	RP230511A	99%	1,005.8	µg/mL	+/- 36.5948
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,005.9	µg/mL	+/- 36.5988
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230513	99%	1,004.9	µg/mL	+/- 36.5624
49	Fluorene	86-73-7	10236068	99%	1,005.4	µg/mL	+/- 36.5806
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,004.3	µg/mL	+/- 36.5382
51	Diethylphthalate	84-66-2	BCCD3396	99%	1,007.1	µg/mL	+/- 36.6392
52	4-Nitroaniline	100-01-6	RP220906	99%	1,005.3	µg/mL	+/- 36.5766
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230505JLM	99%	1,003.8	µg/mL	+/- 36.5200

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.5	µg/mL	+/- 36.4735
55	Azobenzene	103-33-3	BCCG7339	98%	1,003.5	µg/mL	+/- 36.5106
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5847
57	Hexachlorobenzene	118-74-1	14257500	99%	1,005.9	µg/mL	+/- 36.5988
58	Pentachlorophenol	87-86-5	RP230504	99%	1,004.2	µg/mL	+/- 36.5362
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,004.1	µg/mL	+/- 36.5321
60	Anthracene	120-12-7	MKCR0570	99%	1,008.3	µg/mL	+/- 36.6857
61	Carbazole	86-74-8	14351100	99%	1,005.1	µg/mL	+/- 36.5665
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.4	µg/mL	+/- 36.6170
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.7	µg/mL	+/- 36.5159
64	Pyrene	129-00-0	BCCG7845	99%	1,004.3	µg/mL	+/- 36.5382
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,003.4	µg/mL	+/- 36.5058
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,003.4	µg/mL	+/- 36.5079
67	Benz(a)anthracene	56-55-3	0012022BAA	97%	1,004.9	µg/mL	+/- 36.5624
68	Chrysene	218-01-9	RP230512B	99%	1,006.2	µg/mL	+/- 36.6089
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,003.8	µg/mL	+/- 36.5220
70	Di-n-octyl phthalate	117-84-0	13994100	99%	1,004.2	µg/mL	+/- 36.5341
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,008.4	µg/mL	+/- 36.6877
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,004.1	µg/mL	+/- 36.5301
73	Benzo(a)pyrene	50-32-8	J6IUE	99%	1,006.4	µg/mL	+/- 36.6170
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,002.0	µg/mL	+/- 36.4557
75	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,006.1	µg/mL	+/- 36.6029
76	Benzo(g,h,i)perylene	191-24-2	RP230511B	98%	1,006.8	µg/mL	+/- 36.6295

* 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.)

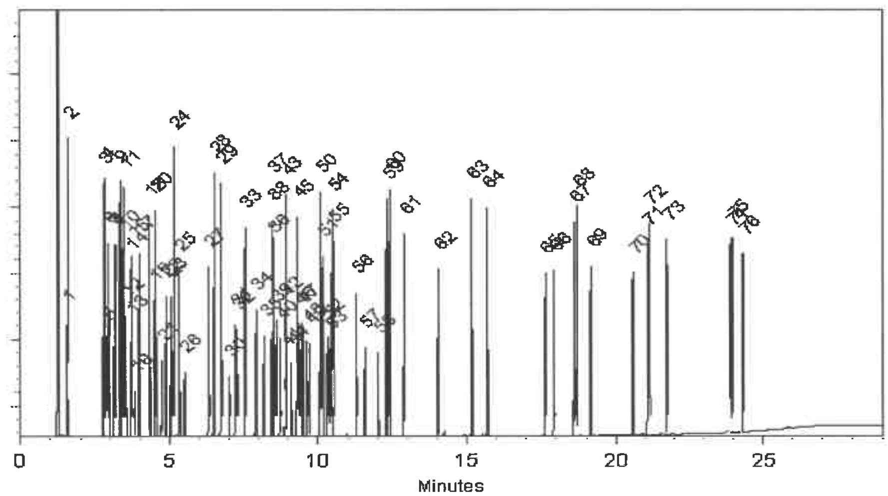
Inj. Temp:
250°C

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.

Tom Suckar - Mix Technician | **Date Mixed:** 11-May-2023 | **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC | **Date Passed:** 18-May-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0197982

S11877 ↓ S11906 RC/ 11/30/23

Description : 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **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	SHBN7324	99%	1,006.9 µg/mL	+/- 36.6352
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,007.4 µg/mL	+/- 36.6514
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5746
4	Aniline	62-53-3	X22F726	99%	1,004.6 µg/mL	+/- 36.5503
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,005.1 µg/mL	+/- 36.5665
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,007.1 µg/mL	+/- 36.6392
7	1,3-Dichlorobenzene	541-73-1	BCBZ7498	99%	1,006.7 µg/mL	+/- 36.6251
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,005.6 µg/mL	+/- 36.5867
9	Benzyl alcohol	100-51-6	SHBK5943	99%	1,005.4 µg/mL	+/- 36.5786
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,003.9 µg/mL	+/- 36.5240
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,002.3 µg/mL	+/- 36.4654
12	2,2'-oxybis(1-chloropropane)	108-60-1	230329JLM	99%	1,004.3 µg/mL	+/- 36.5402
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2671
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	501.9 µg/mL	+/- 18.2631
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.0 µg/mL	+/- 36.5281
16	Hexachloroethane	67-72-1	QTORH	99%	1,006.1 µg/mL	+/- 36.6029
17	Nitrobenzene	98-95-3	10224044	99%	1,003.1 µg/mL	+/- 36.4957

18	Isophorone	78-59-1	MKCC9506	99%	1,003.8	µg/mL	+/- 36.5220
19	2-Nitrophenol	88-75-5	RP230509C	99%	1,005.8	µg/mL	+/- 36.5948
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,004.2	µg/mL	+/- 36.5341
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,006.3	µg/mL	+/- 36.6130
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,004.0	µg/mL	+/- 36.5281
23	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	1,007.1	µg/mL	+/- 36.6413
24	Naphthalene	91-20-3	MKCH0219	99%	1,006.7	µg/mL	+/- 36.6271
25	4-Chloroaniline	106-47-8	WXBC4601V	99%	1,005.4	µg/mL	+/- 36.5806
26	Hexachlorobutadiene	87-68-3	X05J	99%	1,006.4	µg/mL	+/- 36.6170
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.7	µg/mL	+/- 36.5543
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,002.3	µg/mL	+/- 36.4679
29	1-Methylnaphthalene	90-12-0	5234.00-3	99%	1,000.0	µg/mL	+/- 36.3825
30	Hexachlorocyclopentadiene	77-47-4	0012019	99%	1,006.1	µg/mL	+/- 36.6049
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.9	µg/mL	+/- 36.5604
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,006.5	µg/mL	+/- 36.6176
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.4	µg/mL	+/- 36.5422
34	2-Nitroaniline	88-74-4	RP230509A	99%	1,002.3	µg/mL	+/- 36.4654
35	1,4-Dinitrobenzene	100-25-4	RP230512A	99%	1,001.5	µg/mL	+/- 36.4371
36	Acenaphthylene	208-96-8	L10L	95%	1,003.4	µg/mL	+/- 36.5066
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.8	µg/mL	+/- 36.5564
38	Dimethylphthalate	131-11-3	10117699	99%	1,004.7	µg/mL	+/- 36.5543
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.8	µg/mL	+/- 36.6312
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,006.4	µg/mL	+/- 36.6170
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3825
42	3-Nitroaniline	99-09-2	MKCH5457	99%	1,004.8	µg/mL	+/- 36.5584
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,005.8	µg/mL	+/- 36.5948
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,004.3	µg/mL	+/- 36.5402
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,005.8	µg/mL	+/- 36.5928
46	4-Nitrophenol	100-02-7	RP230511A	99%	1,005.8	µg/mL	+/- 36.5948
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,005.9	µg/mL	+/- 36.5988
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230513	99%	1,004.9	µg/mL	+/- 36.5624
49	Fluorene	86-73-7	10236068	99%	1,005.4	µg/mL	+/- 36.5806
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,004.3	µg/mL	+/- 36.5382
51	Diethylphthalate	84-66-2	BCCD3396	99%	1,007.1	µg/mL	+/- 36.6392
52	4-Nitroaniline	100-01-6	RP220906	99%	1,005.3	µg/mL	+/- 36.5766
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230505JLM	99%	1,003.8	µg/mL	+/- 36.5200

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.5	µg/mL	+/- 36.4735
55	Azobenzene	103-33-3	BCCG7339	98%	1,003.5	µg/mL	+/- 36.5106
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5847
57	Hexachlorobenzene	118-74-1	14257500	99%	1,005.9	µg/mL	+/- 36.5988
58	Pentachlorophenol	87-86-5	RP230504	99%	1,004.2	µg/mL	+/- 36.5362
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,004.1	µg/mL	+/- 36.5321
60	Anthracene	120-12-7	MKCR0570	99%	1,008.3	µg/mL	+/- 36.6857
61	Carbazole	86-74-8	14351100	99%	1,005.1	µg/mL	+/- 36.5665
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.4	µg/mL	+/- 36.6170
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.7	µg/mL	+/- 36.5159
64	Pyrene	129-00-0	BCCG7845	99%	1,004.3	µg/mL	+/- 36.5382
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,003.4	µg/mL	+/- 36.5058
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,003.4	µg/mL	+/- 36.5079
67	Benz(a)anthracene	56-55-3	0012022BAA	97%	1,004.9	µg/mL	+/- 36.5624
68	Chrysene	218-01-9	RP230512B	99%	1,006.2	µg/mL	+/- 36.6089
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,003.8	µg/mL	+/- 36.5220
70	Di-n-octyl phthalate	117-84-0	13994100	99%	1,004.2	µg/mL	+/- 36.5341
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,008.4	µg/mL	+/- 36.6877
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,004.1	µg/mL	+/- 36.5301
73	Benzo(a)pyrene	50-32-8	J6IUE	99%	1,006.4	µg/mL	+/- 36.6170
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,002.0	µg/mL	+/- 36.4557
75	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,006.1	µg/mL	+/- 36.6029
76	Benzo(g,h,i)perylene	191-24-2	RP230511B	98%	1,006.8	µg/mL	+/- 36.6295

* 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.)

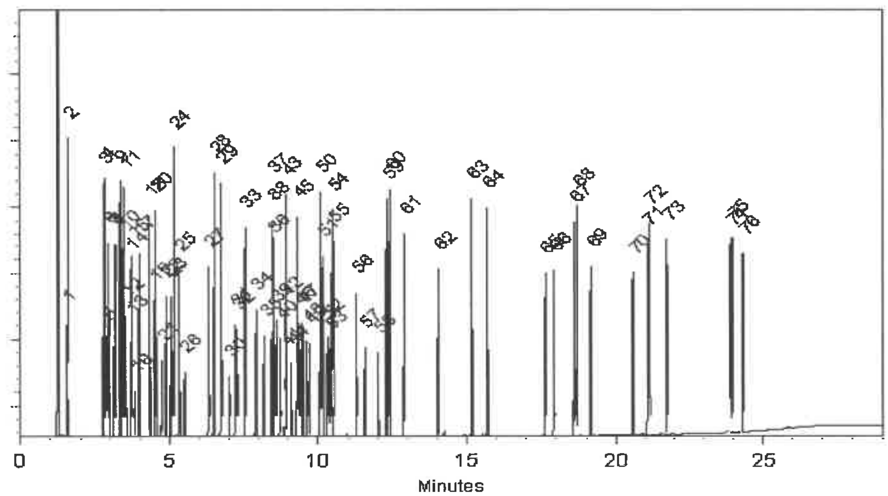
Inj. Temp:
250°C

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.

Tom Suckar - Mix Technician | **Date Mixed:** 11-May-2023 | **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC | **Date Passed:** 18-May-2023

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. : 31850 **Lot No.:** A0197982

S11877
↓
S11906

RC/
11/30/23

Description : 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **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	SHBN7324	99%	1,006.9 µg/mL	+/- 36.6352
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,007.4 µg/mL	+/- 36.6514
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5746
4	Aniline	62-53-3	X22F726	99%	1,004.6 µg/mL	+/- 36.5503
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,005.1 µg/mL	+/- 36.5665
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,007.1 µg/mL	+/- 36.6392
7	1,3-Dichlorobenzene	541-73-1	BCBZ7498	99%	1,006.7 µg/mL	+/- 36.6251
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,005.6 µg/mL	+/- 36.5867
9	Benzyl alcohol	100-51-6	SHBK5943	99%	1,005.4 µg/mL	+/- 36.5786
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,003.9 µg/mL	+/- 36.5240
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,002.3 µg/mL	+/- 36.4654
12	2,2'-oxybis(1-chloropropane)	108-60-1	230329JLM	99%	1,004.3 µg/mL	+/- 36.5402
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2671
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	501.9 µg/mL	+/- 18.2631
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.0 µg/mL	+/- 36.5281
16	Hexachloroethane	67-72-1	QTORH	99%	1,006.1 µg/mL	+/- 36.6029
17	Nitrobenzene	98-95-3	10224044	99%	1,003.1 µg/mL	+/- 36.4957

18	Isophorone	78-59-1	MKCC9506	99%	1,003.8	µg/mL	+/-	36.5220
19	2-Nitrophenol	88-75-5	RP230509C	99%	1,005.8	µg/mL	+/-	36.5948
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,004.2	µg/mL	+/-	36.5341
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,006.3	µg/mL	+/-	36.6130
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,004.0	µg/mL	+/-	36.5281
23	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	1,007.1	µg/mL	+/-	36.6413
24	Naphthalene	91-20-3	MKCH0219	99%	1,006.7	µg/mL	+/-	36.6271
25	4-Chloroaniline	106-47-8	WXBC4601V	99%	1,005.4	µg/mL	+/-	36.5806
26	Hexachlorobutadiene	87-68-3	X05J	99%	1,006.4	µg/mL	+/-	36.6170
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.7	µg/mL	+/-	36.5543
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,002.3	µg/mL	+/-	36.4679
29	1-Methylnaphthalene	90-12-0	5234.00-3	99%	1,000.0	µg/mL	+/-	36.3825
30	Hexachlorocyclopentadiene	77-47-4	0012019	99%	1,006.1	µg/mL	+/-	36.6049
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.9	µg/mL	+/-	36.5604
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,006.5	µg/mL	+/-	36.6176
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.4	µg/mL	+/-	36.5422
34	2-Nitroaniline	88-74-4	RP230509A	99%	1,002.3	µg/mL	+/-	36.4654
35	1,4-Dinitrobenzene	100-25-4	RP230512A	99%	1,001.5	µg/mL	+/-	36.4371
36	Acenaphthylene	208-96-8	L10L	95%	1,003.4	µg/mL	+/-	36.5066
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.8	µg/mL	+/-	36.5564
38	Dimethylphthalate	131-11-3	10117699	99%	1,004.7	µg/mL	+/-	36.5543
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.8	µg/mL	+/-	36.6312
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,006.4	µg/mL	+/-	36.6170
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/-	36.3825
42	3-Nitroaniline	99-09-2	MKCH5457	99%	1,004.8	µg/mL	+/-	36.5584
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,005.8	µg/mL	+/-	36.5948
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,004.3	µg/mL	+/-	36.5402
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,005.8	µg/mL	+/-	36.5928
46	4-Nitrophenol	100-02-7	RP230511A	99%	1,005.8	µg/mL	+/-	36.5948
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,005.9	µg/mL	+/-	36.5988
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230513	99%	1,004.9	µg/mL	+/-	36.5624
49	Fluorene	86-73-7	10236068	99%	1,005.4	µg/mL	+/-	36.5806
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,004.3	µg/mL	+/-	36.5382
51	Diethylphthalate	84-66-2	BCCD3396	99%	1,007.1	µg/mL	+/-	36.6392
52	4-Nitroaniline	100-01-6	RP220906	99%	1,005.3	µg/mL	+/-	36.5766
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230505JLM	99%	1,003.8	µg/mL	+/-	36.5200

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.5	µg/mL	+/- 36.4735
55	Azobenzene	103-33-3	BCCG7339	98%	1,003.5	µg/mL	+/- 36.5106
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5847
57	Hexachlorobenzene	118-74-1	14257500	99%	1,005.9	µg/mL	+/- 36.5988
58	Pentachlorophenol	87-86-5	RP230504	99%	1,004.2	µg/mL	+/- 36.5362
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,004.1	µg/mL	+/- 36.5321
60	Anthracene	120-12-7	MKCR0570	99%	1,008.3	µg/mL	+/- 36.6857
61	Carbazole	86-74-8	14351100	99%	1,005.1	µg/mL	+/- 36.5665
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.4	µg/mL	+/- 36.6170
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.7	µg/mL	+/- 36.5159
64	Pyrene	129-00-0	BCCG7845	99%	1,004.3	µg/mL	+/- 36.5382
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,003.4	µg/mL	+/- 36.5058
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,003.4	µg/mL	+/- 36.5079
67	Benz(a)anthracene	56-55-3	0012022BAA	97%	1,004.9	µg/mL	+/- 36.5624
68	Chrysene	218-01-9	RP230512B	99%	1,006.2	µg/mL	+/- 36.6089
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,003.8	µg/mL	+/- 36.5220
70	Di-n-octyl phthalate	117-84-0	13994100	99%	1,004.2	µg/mL	+/- 36.5341
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,008.4	µg/mL	+/- 36.6877
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,004.1	µg/mL	+/- 36.5301
73	Benzo(a)pyrene	50-32-8	J6IUE	99%	1,006.4	µg/mL	+/- 36.6170
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,002.0	µg/mL	+/- 36.4557
75	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,006.1	µg/mL	+/- 36.6029
76	Benzo(g,h,i)perylene	191-24-2	RP230511B	98%	1,006.8	µg/mL	+/- 36.6295

* 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.)

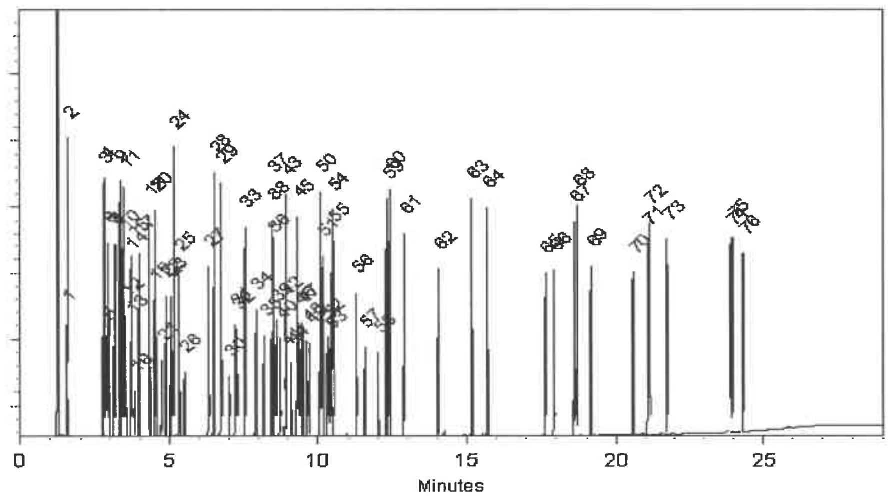
Inj. Temp:
250°C

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.

Tom Suckar - Mix Technician | **Date Mixed:** 11-May-2023 | **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC | **Date Passed:** 18-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA | ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA | ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0197982

Description : 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11877
↓
S11906

RC/ 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBN7324	99%	1,006.9 µg/mL	+/- 36.6352
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,007.4 µg/mL	+/- 36.6514
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5746
4	Aniline	62-53-3	X22F726	99%	1,004.6 µg/mL	+/- 36.5503
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,005.1 µg/mL	+/- 36.5665
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,007.1 µg/mL	+/- 36.6392
7	1,3-Dichlorobenzene	541-73-1	BCBZ7498	99%	1,006.7 µg/mL	+/- 36.6251
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,005.6 µg/mL	+/- 36.5867
9	Benzyl alcohol	100-51-6	SHBK5943	99%	1,005.4 µg/mL	+/- 36.5786
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,003.9 µg/mL	+/- 36.5240
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,002.3 µg/mL	+/- 36.4654
12	2,2'-oxybis(1-chloropropane)	108-60-1	230329JLM	99%	1,004.3 µg/mL	+/- 36.5402
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2671
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	501.9 µg/mL	+/- 18.2631
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.0 µg/mL	+/- 36.5281
16	Hexachloroethane	67-72-1	QTORH	99%	1,006.1 µg/mL	+/- 36.6029
17	Nitrobenzene	98-95-3	10224044	99%	1,003.1 µg/mL	+/- 36.4957

18	Isophorone	78-59-1	MKCC9506	99%	1,003.8	µg/mL	+/- 36.5220
19	2-Nitrophenol	88-75-5	RP230509C	99%	1,005.8	µg/mL	+/- 36.5948
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,004.2	µg/mL	+/- 36.5341
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,006.3	µg/mL	+/- 36.6130
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,004.0	µg/mL	+/- 36.5281
23	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	1,007.1	µg/mL	+/- 36.6413
24	Naphthalene	91-20-3	MKCH0219	99%	1,006.7	µg/mL	+/- 36.6271
25	4-Chloroaniline	106-47-8	WXBC4601V	99%	1,005.4	µg/mL	+/- 36.5806
26	Hexachlorobutadiene	87-68-3	X05J	99%	1,006.4	µg/mL	+/- 36.6170
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.7	µg/mL	+/- 36.5543
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,002.3	µg/mL	+/- 36.4679
29	1-Methylnaphthalene	90-12-0	5234.00-3	99%	1,000.0	µg/mL	+/- 36.3825
30	Hexachlorocyclopentadiene	77-47-4	0012019	99%	1,006.1	µg/mL	+/- 36.6049
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.9	µg/mL	+/- 36.5604
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,006.5	µg/mL	+/- 36.6176
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.4	µg/mL	+/- 36.5422
34	2-Nitroaniline	88-74-4	RP230509A	99%	1,002.3	µg/mL	+/- 36.4654
35	1,4-Dinitrobenzene	100-25-4	RP230512A	99%	1,001.5	µg/mL	+/- 36.4371
36	Acenaphthylene	208-96-8	L10L	95%	1,003.4	µg/mL	+/- 36.5066
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.8	µg/mL	+/- 36.5564
38	Dimethylphthalate	131-11-3	10117699	99%	1,004.7	µg/mL	+/- 36.5543
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.8	µg/mL	+/- 36.6312
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,006.4	µg/mL	+/- 36.6170
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3825
42	3-Nitroaniline	99-09-2	MKCH5457	99%	1,004.8	µg/mL	+/- 36.5584
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,005.8	µg/mL	+/- 36.5948
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,004.3	µg/mL	+/- 36.5402
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,005.8	µg/mL	+/- 36.5928
46	4-Nitrophenol	100-02-7	RP230511A	99%	1,005.8	µg/mL	+/- 36.5948
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,005.9	µg/mL	+/- 36.5988
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230513	99%	1,004.9	µg/mL	+/- 36.5624
49	Fluorene	86-73-7	10236068	99%	1,005.4	µg/mL	+/- 36.5806
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,004.3	µg/mL	+/- 36.5382
51	Diethylphthalate	84-66-2	BCCD3396	99%	1,007.1	µg/mL	+/- 36.6392
52	4-Nitroaniline	100-01-6	RP220906	99%	1,005.3	µg/mL	+/- 36.5766
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230505JLM	99%	1,003.8	µg/mL	+/- 36.5200

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.5	µg/mL	+/- 36.4735
55	Azobenzene	103-33-3	BCCG7339	98%	1,003.5	µg/mL	+/- 36.5106
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5847
57	Hexachlorobenzene	118-74-1	14257500	99%	1,005.9	µg/mL	+/- 36.5988
58	Pentachlorophenol	87-86-5	RP230504	99%	1,004.2	µg/mL	+/- 36.5362
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,004.1	µg/mL	+/- 36.5321
60	Anthracene	120-12-7	MKCR0570	99%	1,008.3	µg/mL	+/- 36.6857
61	Carbazole	86-74-8	14351100	99%	1,005.1	µg/mL	+/- 36.5665
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.4	µg/mL	+/- 36.6170
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.7	µg/mL	+/- 36.5159
64	Pyrene	129-00-0	BCCG7845	99%	1,004.3	µg/mL	+/- 36.5382
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,003.4	µg/mL	+/- 36.5058
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,003.4	µg/mL	+/- 36.5079
67	Benz(a)anthracene	56-55-3	0012022BAA	97%	1,004.9	µg/mL	+/- 36.5624
68	Chrysene	218-01-9	RP230512B	99%	1,006.2	µg/mL	+/- 36.6089
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,003.8	µg/mL	+/- 36.5220
70	Di-n-octyl phthalate	117-84-0	13994100	99%	1,004.2	µg/mL	+/- 36.5341
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,008.4	µg/mL	+/- 36.6877
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,004.1	µg/mL	+/- 36.5301
73	Benzo(a)pyrene	50-32-8	J6IUE	99%	1,006.4	µg/mL	+/- 36.6170
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,002.0	µg/mL	+/- 36.4557
75	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,006.1	µg/mL	+/- 36.6029
76	Benzo(g,h,i)perylene	191-24-2	RP230511B	98%	1,006.8	µg/mL	+/- 36.6295

* 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.)

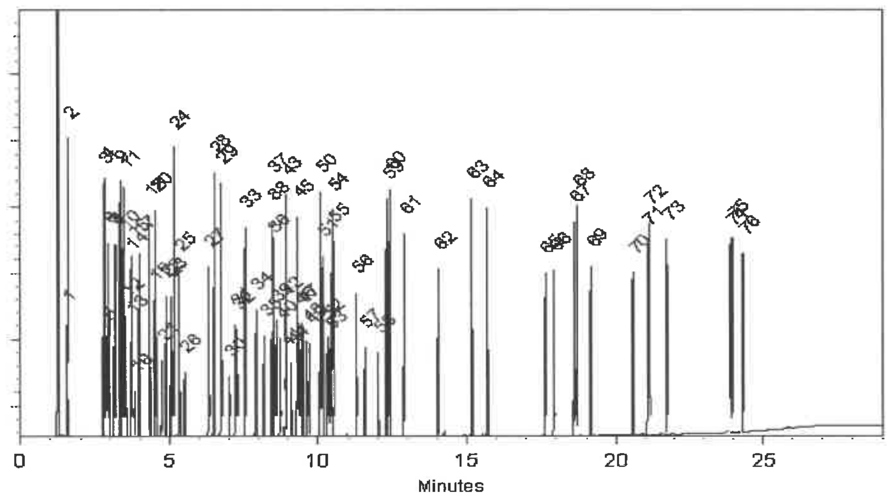
Inj. Temp:
250°C

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.

Tom Suckar - Mix Technician | **Date Mixed:** 11-May-2023 | **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC | **Date Passed:** 18-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0197982

S11877 ↓ S11906 RC/ 11/30/23

Description : 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **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	SHBN7324	99%	1,006.9 µg/mL	+/- 36.6352
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,007.4 µg/mL	+/- 36.6514
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5746
4	Aniline	62-53-3	X22F726	99%	1,004.6 µg/mL	+/- 36.5503
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,005.1 µg/mL	+/- 36.5665
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,007.1 µg/mL	+/- 36.6392
7	1,3-Dichlorobenzene	541-73-1	BCBZ7498	99%	1,006.7 µg/mL	+/- 36.6251
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,005.6 µg/mL	+/- 36.5867
9	Benzyl alcohol	100-51-6	SHBK5943	99%	1,005.4 µg/mL	+/- 36.5786
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,003.9 µg/mL	+/- 36.5240
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,002.3 µg/mL	+/- 36.4654
12	2,2'-oxybis(1-chloropropane)	108-60-1	230329JLM	99%	1,004.3 µg/mL	+/- 36.5402
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2671
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	501.9 µg/mL	+/- 18.2631
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.0 µg/mL	+/- 36.5281
16	Hexachloroethane	67-72-1	QTORH	99%	1,006.1 µg/mL	+/- 36.6029
17	Nitrobenzene	98-95-3	10224044	99%	1,003.1 µg/mL	+/- 36.4957

18	Isophorone	78-59-1	MKCC9506	99%	1,003.8	µg/mL	+/-	36.5220
19	2-Nitrophenol	88-75-5	RP230509C	99%	1,005.8	µg/mL	+/-	36.5948
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,004.2	µg/mL	+/-	36.5341
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,006.3	µg/mL	+/-	36.6130
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,004.0	µg/mL	+/-	36.5281
23	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	1,007.1	µg/mL	+/-	36.6413
24	Naphthalene	91-20-3	MKCH0219	99%	1,006.7	µg/mL	+/-	36.6271
25	4-Chloroaniline	106-47-8	WXBC4601V	99%	1,005.4	µg/mL	+/-	36.5806
26	Hexachlorobutadiene	87-68-3	X05J	99%	1,006.4	µg/mL	+/-	36.6170
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.7	µg/mL	+/-	36.5543
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,002.3	µg/mL	+/-	36.4679
29	1-Methylnaphthalene	90-12-0	5234.00-3	99%	1,000.0	µg/mL	+/-	36.3825
30	Hexachlorocyclopentadiene	77-47-4	0012019	99%	1,006.1	µg/mL	+/-	36.6049
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.9	µg/mL	+/-	36.5604
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,006.5	µg/mL	+/-	36.6176
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.4	µg/mL	+/-	36.5422
34	2-Nitroaniline	88-74-4	RP230509A	99%	1,002.3	µg/mL	+/-	36.4654
35	1,4-Dinitrobenzene	100-25-4	RP230512A	99%	1,001.5	µg/mL	+/-	36.4371
36	Acenaphthylene	208-96-8	L10L	95%	1,003.4	µg/mL	+/-	36.5066
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.8	µg/mL	+/-	36.5564
38	Dimethylphthalate	131-11-3	10117699	99%	1,004.7	µg/mL	+/-	36.5543
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.8	µg/mL	+/-	36.6312
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,006.4	µg/mL	+/-	36.6170
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/-	36.3825
42	3-Nitroaniline	99-09-2	MKCH5457	99%	1,004.8	µg/mL	+/-	36.5584
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,005.8	µg/mL	+/-	36.5948
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,004.3	µg/mL	+/-	36.5402
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,005.8	µg/mL	+/-	36.5928
46	4-Nitrophenol	100-02-7	RP230511A	99%	1,005.8	µg/mL	+/-	36.5948
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,005.9	µg/mL	+/-	36.5988
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230513	99%	1,004.9	µg/mL	+/-	36.5624
49	Fluorene	86-73-7	10236068	99%	1,005.4	µg/mL	+/-	36.5806
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,004.3	µg/mL	+/-	36.5382
51	Diethylphthalate	84-66-2	BCCD3396	99%	1,007.1	µg/mL	+/-	36.6392
52	4-Nitroaniline	100-01-6	RP220906	99%	1,005.3	µg/mL	+/-	36.5766
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230505JLM	99%	1,003.8	µg/mL	+/-	36.5200

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.5	µg/mL	+/- 36.4735
55	Azobenzene	103-33-3	BCCG7339	98%	1,003.5	µg/mL	+/- 36.5106
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5847
57	Hexachlorobenzene	118-74-1	14257500	99%	1,005.9	µg/mL	+/- 36.5988
58	Pentachlorophenol	87-86-5	RP230504	99%	1,004.2	µg/mL	+/- 36.5362
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,004.1	µg/mL	+/- 36.5321
60	Anthracene	120-12-7	MKCR0570	99%	1,008.3	µg/mL	+/- 36.6857
61	Carbazole	86-74-8	14351100	99%	1,005.1	µg/mL	+/- 36.5665
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.4	µg/mL	+/- 36.6170
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.7	µg/mL	+/- 36.5159
64	Pyrene	129-00-0	BCCG7845	99%	1,004.3	µg/mL	+/- 36.5382
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,003.4	µg/mL	+/- 36.5058
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,003.4	µg/mL	+/- 36.5079
67	Benz(a)anthracene	56-55-3	0012022BAA	97%	1,004.9	µg/mL	+/- 36.5624
68	Chrysene	218-01-9	RP230512B	99%	1,006.2	µg/mL	+/- 36.6089
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,003.8	µg/mL	+/- 36.5220
70	Di-n-octyl phthalate	117-84-0	13994100	99%	1,004.2	µg/mL	+/- 36.5341
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,008.4	µg/mL	+/- 36.6877
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,004.1	µg/mL	+/- 36.5301
73	Benzo(a)pyrene	50-32-8	J6IUE	99%	1,006.4	µg/mL	+/- 36.6170
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,002.0	µg/mL	+/- 36.4557
75	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,006.1	µg/mL	+/- 36.6029
76	Benzo(g,h,i)perylene	191-24-2	RP230511B	98%	1,006.8	µg/mL	+/- 36.6295

* 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.)

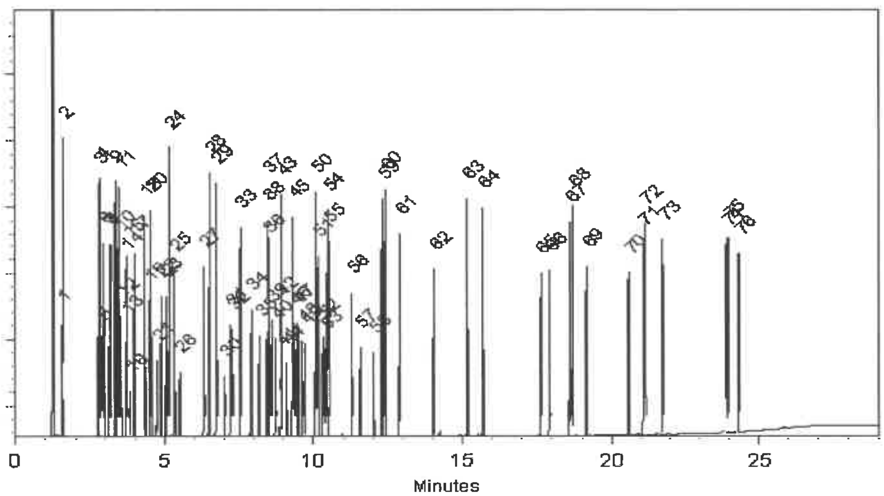
Inj. Temp:
250°C

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.

Tom Suckar - Mix Technician

Date Mixed: 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 18-May-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0197982

S11877
↓
S11906

RC/ 11/30/23

Description : 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **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	SHBN7324	99%	1,006.9 µg/mL	+/- 36.6352
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,007.4 µg/mL	+/- 36.6514
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5746
4	Aniline	62-53-3	X22F726	99%	1,004.6 µg/mL	+/- 36.5503
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,005.1 µg/mL	+/- 36.5665
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,007.1 µg/mL	+/- 36.6392
7	1,3-Dichlorobenzene	541-73-1	BCBZ7498	99%	1,006.7 µg/mL	+/- 36.6251
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,005.6 µg/mL	+/- 36.5867
9	Benzyl alcohol	100-51-6	SHBK5943	99%	1,005.4 µg/mL	+/- 36.5786
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,003.9 µg/mL	+/- 36.5240
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,002.3 µg/mL	+/- 36.4654
12	2,2'-oxybis(1-chloropropane)	108-60-1	230329JLM	99%	1,004.3 µg/mL	+/- 36.5402
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2671
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	501.9 µg/mL	+/- 18.2631
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.0 µg/mL	+/- 36.5281
16	Hexachloroethane	67-72-1	QTORH	99%	1,006.1 µg/mL	+/- 36.6029
17	Nitrobenzene	98-95-3	10224044	99%	1,003.1 µg/mL	+/- 36.4957

18	Isophorone	78-59-1	MKCC9506	99%	1,003.8	µg/mL	+/- 36.5220
19	2-Nitrophenol	88-75-5	RP230509C	99%	1,005.8	µg/mL	+/- 36.5948
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,004.2	µg/mL	+/- 36.5341
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,006.3	µg/mL	+/- 36.6130
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,004.0	µg/mL	+/- 36.5281
23	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	1,007.1	µg/mL	+/- 36.6413
24	Naphthalene	91-20-3	MKCH0219	99%	1,006.7	µg/mL	+/- 36.6271
25	4-Chloroaniline	106-47-8	WXBC4601V	99%	1,005.4	µg/mL	+/- 36.5806
26	Hexachlorobutadiene	87-68-3	X05J	99%	1,006.4	µg/mL	+/- 36.6170
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.7	µg/mL	+/- 36.5543
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,002.3	µg/mL	+/- 36.4679
29	1-Methylnaphthalene	90-12-0	5234.00-3	99%	1,000.0	µg/mL	+/- 36.3825
30	Hexachlorocyclopentadiene	77-47-4	0012019	99%	1,006.1	µg/mL	+/- 36.6049
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.9	µg/mL	+/- 36.5604
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,006.5	µg/mL	+/- 36.6176
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.4	µg/mL	+/- 36.5422
34	2-Nitroaniline	88-74-4	RP230509A	99%	1,002.3	µg/mL	+/- 36.4654
35	1,4-Dinitrobenzene	100-25-4	RP230512A	99%	1,001.5	µg/mL	+/- 36.4371
36	Acenaphthylene	208-96-8	L10L	95%	1,003.4	µg/mL	+/- 36.5066
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.8	µg/mL	+/- 36.5564
38	Dimethylphthalate	131-11-3	10117699	99%	1,004.7	µg/mL	+/- 36.5543
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.8	µg/mL	+/- 36.6312
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,006.4	µg/mL	+/- 36.6170
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3825
42	3-Nitroaniline	99-09-2	MKCH5457	99%	1,004.8	µg/mL	+/- 36.5584
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,005.8	µg/mL	+/- 36.5948
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,004.3	µg/mL	+/- 36.5402
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,005.8	µg/mL	+/- 36.5928
46	4-Nitrophenol	100-02-7	RP230511A	99%	1,005.8	µg/mL	+/- 36.5948
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,005.9	µg/mL	+/- 36.5988
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230513	99%	1,004.9	µg/mL	+/- 36.5624
49	Fluorene	86-73-7	10236068	99%	1,005.4	µg/mL	+/- 36.5806
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,004.3	µg/mL	+/- 36.5382
51	Diethylphthalate	84-66-2	BCCD3396	99%	1,007.1	µg/mL	+/- 36.6392
52	4-Nitroaniline	100-01-6	RP220906	99%	1,005.3	µg/mL	+/- 36.5766
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230505JLM	99%	1,003.8	µg/mL	+/- 36.5200

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.5	µg/mL	+/- 36.4735
55	Azobenzene	103-33-3	BCCG7339	98%	1,003.5	µg/mL	+/- 36.5106
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5847
57	Hexachlorobenzene	118-74-1	14257500	99%	1,005.9	µg/mL	+/- 36.5988
58	Pentachlorophenol	87-86-5	RP230504	99%	1,004.2	µg/mL	+/- 36.5362
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,004.1	µg/mL	+/- 36.5321
60	Anthracene	120-12-7	MKCR0570	99%	1,008.3	µg/mL	+/- 36.6857
61	Carbazole	86-74-8	14351100	99%	1,005.1	µg/mL	+/- 36.5665
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.4	µg/mL	+/- 36.6170
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.7	µg/mL	+/- 36.5159
64	Pyrene	129-00-0	BCCG7845	99%	1,004.3	µg/mL	+/- 36.5382
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,003.4	µg/mL	+/- 36.5058
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,003.4	µg/mL	+/- 36.5079
67	Benz(a)anthracene	56-55-3	0012022BAA	97%	1,004.9	µg/mL	+/- 36.5624
68	Chrysene	218-01-9	RP230512B	99%	1,006.2	µg/mL	+/- 36.6089
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,003.8	µg/mL	+/- 36.5220
70	Di-n-octyl phthalate	117-84-0	13994100	99%	1,004.2	µg/mL	+/- 36.5341
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,008.4	µg/mL	+/- 36.6877
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,004.1	µg/mL	+/- 36.5301
73	Benzo(a)pyrene	50-32-8	J6IUE	99%	1,006.4	µg/mL	+/- 36.6170
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,002.0	µg/mL	+/- 36.4557
75	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,006.1	µg/mL	+/- 36.6029
76	Benzo(g,h,i)perylene	191-24-2	RP230511B	98%	1,006.8	µg/mL	+/- 36.6295

* 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.)

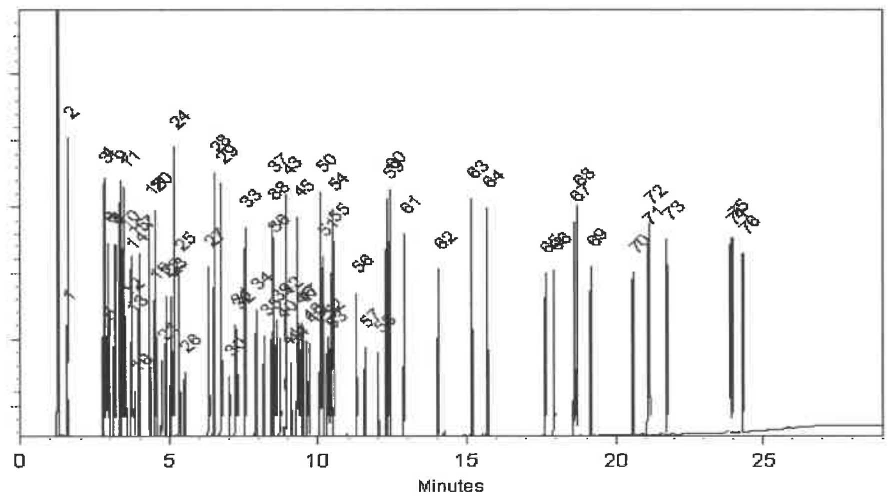
Inj. Temp:
250°C

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.

Tom Suckar - Mix Technician | **Date Mixed:** 11-May-2023 | **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC | **Date Passed:** 18-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA | ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA | ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0197982

Description : 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11877
↓
S11906
RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBN7324	99%	1,006.9 µg/mL	+/- 36.6352
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,007.4 µg/mL	+/- 36.6514
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5746
4	Aniline	62-53-3	X22F726	99%	1,004.6 µg/mL	+/- 36.5503
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,005.1 µg/mL	+/- 36.5665
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,007.1 µg/mL	+/- 36.6392
7	1,3-Dichlorobenzene	541-73-1	BCBZ7498	99%	1,006.7 µg/mL	+/- 36.6251
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,005.6 µg/mL	+/- 36.5867
9	Benzyl alcohol	100-51-6	SHBK5943	99%	1,005.4 µg/mL	+/- 36.5786
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,003.9 µg/mL	+/- 36.5240
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,002.3 µg/mL	+/- 36.4654
12	2,2'-oxybis(1-chloropropane)	108-60-1	230329JLM	99%	1,004.3 µg/mL	+/- 36.5402
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2671
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	501.9 µg/mL	+/- 18.2631
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.0 µg/mL	+/- 36.5281
16	Hexachloroethane	67-72-1	QTORH	99%	1,006.1 µg/mL	+/- 36.6029
17	Nitrobenzene	98-95-3	10224044	99%	1,003.1 µg/mL	+/- 36.4957

18	Isophorone	78-59-1	MKCC9506	99%	1,003.8	µg/mL	+/-	36.5220
19	2-Nitrophenol	88-75-5	RP230509C	99%	1,005.8	µg/mL	+/-	36.5948
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,004.2	µg/mL	+/-	36.5341
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,006.3	µg/mL	+/-	36.6130
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,004.0	µg/mL	+/-	36.5281
23	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	1,007.1	µg/mL	+/-	36.6413
24	Naphthalene	91-20-3	MKCH0219	99%	1,006.7	µg/mL	+/-	36.6271
25	4-Chloroaniline	106-47-8	WXBC4601V	99%	1,005.4	µg/mL	+/-	36.5806
26	Hexachlorobutadiene	87-68-3	X05J	99%	1,006.4	µg/mL	+/-	36.6170
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.7	µg/mL	+/-	36.5543
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,002.3	µg/mL	+/-	36.4679
29	1-Methylnaphthalene	90-12-0	5234.00-3	99%	1,000.0	µg/mL	+/-	36.3825
30	Hexachlorocyclopentadiene	77-47-4	0012019	99%	1,006.1	µg/mL	+/-	36.6049
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.9	µg/mL	+/-	36.5604
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,006.5	µg/mL	+/-	36.6176
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.4	µg/mL	+/-	36.5422
34	2-Nitroaniline	88-74-4	RP230509A	99%	1,002.3	µg/mL	+/-	36.4654
35	1,4-Dinitrobenzene	100-25-4	RP230512A	99%	1,001.5	µg/mL	+/-	36.4371
36	Acenaphthylene	208-96-8	L10L	95%	1,003.4	µg/mL	+/-	36.5066
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.8	µg/mL	+/-	36.5564
38	Dimethylphthalate	131-11-3	10117699	99%	1,004.7	µg/mL	+/-	36.5543
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.8	µg/mL	+/-	36.6312
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,006.4	µg/mL	+/-	36.6170
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/-	36.3825
42	3-Nitroaniline	99-09-2	MKCH5457	99%	1,004.8	µg/mL	+/-	36.5584
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,005.8	µg/mL	+/-	36.5948
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,004.3	µg/mL	+/-	36.5402
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,005.8	µg/mL	+/-	36.5928
46	4-Nitrophenol	100-02-7	RP230511A	99%	1,005.8	µg/mL	+/-	36.5948
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,005.9	µg/mL	+/-	36.5988
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230513	99%	1,004.9	µg/mL	+/-	36.5624
49	Fluorene	86-73-7	10236068	99%	1,005.4	µg/mL	+/-	36.5806
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,004.3	µg/mL	+/-	36.5382
51	Diethylphthalate	84-66-2	BCCD3396	99%	1,007.1	µg/mL	+/-	36.6392
52	4-Nitroaniline	100-01-6	RP220906	99%	1,005.3	µg/mL	+/-	36.5766
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230505JLM	99%	1,003.8	µg/mL	+/-	36.5200

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.5	µg/mL	+/- 36.4735
55	Azobenzene	103-33-3	BCCG7339	98%	1,003.5	µg/mL	+/- 36.5106
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5847
57	Hexachlorobenzene	118-74-1	14257500	99%	1,005.9	µg/mL	+/- 36.5988
58	Pentachlorophenol	87-86-5	RP230504	99%	1,004.2	µg/mL	+/- 36.5362
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,004.1	µg/mL	+/- 36.5321
60	Anthracene	120-12-7	MKCR0570	99%	1,008.3	µg/mL	+/- 36.6857
61	Carbazole	86-74-8	14351100	99%	1,005.1	µg/mL	+/- 36.5665
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.4	µg/mL	+/- 36.6170
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.7	µg/mL	+/- 36.5159
64	Pyrene	129-00-0	BCCG7845	99%	1,004.3	µg/mL	+/- 36.5382
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,003.4	µg/mL	+/- 36.5058
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,003.4	µg/mL	+/- 36.5079
67	Benz(a)anthracene	56-55-3	0012022BAA	97%	1,004.9	µg/mL	+/- 36.5624
68	Chrysene	218-01-9	RP230512B	99%	1,006.2	µg/mL	+/- 36.6089
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,003.8	µg/mL	+/- 36.5220
70	Di-n-octyl phthalate	117-84-0	13994100	99%	1,004.2	µg/mL	+/- 36.5341
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,008.4	µg/mL	+/- 36.6877
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,004.1	µg/mL	+/- 36.5301
73	Benzo(a)pyrene	50-32-8	J6IUE	99%	1,006.4	µg/mL	+/- 36.6170
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,002.0	µg/mL	+/- 36.4557
75	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,006.1	µg/mL	+/- 36.6029
76	Benzo(g,h,i)perylene	191-24-2	RP230511B	98%	1,006.8	µg/mL	+/- 36.6295

* 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.)

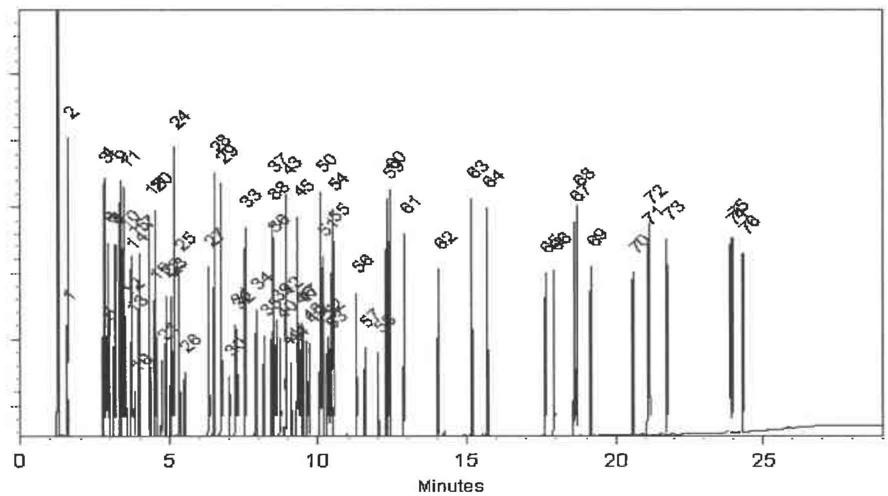
Inj. Temp:
250°C

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.

Tom Suckar - Mix Technician

Date Mixed: 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 18-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

chromatographic plus

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.:** A0197982

S11877
↓
S11906

RC/
11/30/23

Description : 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **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	SHBN7324	99%	1,006.9 µg/mL	+/- 36.6352
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,007.4 µg/mL	+/- 36.6514
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5746
4	Aniline	62-53-3	X22F726	99%	1,004.6 µg/mL	+/- 36.5503
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,005.1 µg/mL	+/- 36.5665
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,007.1 µg/mL	+/- 36.6392
7	1,3-Dichlorobenzene	541-73-1	BCBZ7498	99%	1,006.7 µg/mL	+/- 36.6251
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,005.6 µg/mL	+/- 36.5867
9	Benzyl alcohol	100-51-6	SHBK5943	99%	1,005.4 µg/mL	+/- 36.5786
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,003.9 µg/mL	+/- 36.5240
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,002.3 µg/mL	+/- 36.4654
12	2,2'-oxybis(1-chloropropane)	108-60-1	230329JLM	99%	1,004.3 µg/mL	+/- 36.5402
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2671
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	501.9 µg/mL	+/- 18.2631
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.0 µg/mL	+/- 36.5281
16	Hexachloroethane	67-72-1	QTORH	99%	1,006.1 µg/mL	+/- 36.6029
17	Nitrobenzene	98-95-3	10224044	99%	1,003.1 µg/mL	+/- 36.4957

18	Isophorone	78-59-1	MKCC9506	99%	1,003.8	µg/mL	+/- 36.5220
19	2-Nitrophenol	88-75-5	RP230509C	99%	1,005.8	µg/mL	+/- 36.5948
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,004.2	µg/mL	+/- 36.5341
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,006.3	µg/mL	+/- 36.6130
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,004.0	µg/mL	+/- 36.5281
23	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	1,007.1	µg/mL	+/- 36.6413
24	Naphthalene	91-20-3	MKCH0219	99%	1,006.7	µg/mL	+/- 36.6271
25	4-Chloroaniline	106-47-8	WXBC4601V	99%	1,005.4	µg/mL	+/- 36.5806
26	Hexachlorobutadiene	87-68-3	X05J	99%	1,006.4	µg/mL	+/- 36.6170
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.7	µg/mL	+/- 36.5543
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,002.3	µg/mL	+/- 36.4679
29	1-Methylnaphthalene	90-12-0	5234.00-3	99%	1,000.0	µg/mL	+/- 36.3825
30	Hexachlorocyclopentadiene	77-47-4	0012019	99%	1,006.1	µg/mL	+/- 36.6049
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.9	µg/mL	+/- 36.5604
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,006.5	µg/mL	+/- 36.6176
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.4	µg/mL	+/- 36.5422
34	2-Nitroaniline	88-74-4	RP230509A	99%	1,002.3	µg/mL	+/- 36.4654
35	1,4-Dinitrobenzene	100-25-4	RP230512A	99%	1,001.5	µg/mL	+/- 36.4371
36	Acenaphthylene	208-96-8	L10L	95%	1,003.4	µg/mL	+/- 36.5066
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.8	µg/mL	+/- 36.5564
38	Dimethylphthalate	131-11-3	10117699	99%	1,004.7	µg/mL	+/- 36.5543
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.8	µg/mL	+/- 36.6312
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,006.4	µg/mL	+/- 36.6170
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3825
42	3-Nitroaniline	99-09-2	MKCH5457	99%	1,004.8	µg/mL	+/- 36.5584
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,005.8	µg/mL	+/- 36.5948
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,004.3	µg/mL	+/- 36.5402
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,005.8	µg/mL	+/- 36.5928
46	4-Nitrophenol	100-02-7	RP230511A	99%	1,005.8	µg/mL	+/- 36.5948
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,005.9	µg/mL	+/- 36.5988
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230513	99%	1,004.9	µg/mL	+/- 36.5624
49	Fluorene	86-73-7	10236068	99%	1,005.4	µg/mL	+/- 36.5806
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,004.3	µg/mL	+/- 36.5382
51	Diethylphthalate	84-66-2	BCCD3396	99%	1,007.1	µg/mL	+/- 36.6392
52	4-Nitroaniline	100-01-6	RP220906	99%	1,005.3	µg/mL	+/- 36.5766
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230505JLM	99%	1,003.8	µg/mL	+/- 36.5200

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.5	µg/mL	+/- 36.4735
55	Azobenzene	103-33-3	BCCG7339	98%	1,003.5	µg/mL	+/- 36.5106
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5847
57	Hexachlorobenzene	118-74-1	14257500	99%	1,005.9	µg/mL	+/- 36.5988
58	Pentachlorophenol	87-86-5	RP230504	99%	1,004.2	µg/mL	+/- 36.5362
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,004.1	µg/mL	+/- 36.5321
60	Anthracene	120-12-7	MKCR0570	99%	1,008.3	µg/mL	+/- 36.6857
61	Carbazole	86-74-8	14351100	99%	1,005.1	µg/mL	+/- 36.5665
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.4	µg/mL	+/- 36.6170
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.7	µg/mL	+/- 36.5159
64	Pyrene	129-00-0	BCCG7845	99%	1,004.3	µg/mL	+/- 36.5382
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,003.4	µg/mL	+/- 36.5058
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,003.4	µg/mL	+/- 36.5079
67	Benz(a)anthracene	56-55-3	0012022BAA	97%	1,004.9	µg/mL	+/- 36.5624
68	Chrysene	218-01-9	RP230512B	99%	1,006.2	µg/mL	+/- 36.6089
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,003.8	µg/mL	+/- 36.5220
70	Di-n-octyl phthalate	117-84-0	13994100	99%	1,004.2	µg/mL	+/- 36.5341
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,008.4	µg/mL	+/- 36.6877
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,004.1	µg/mL	+/- 36.5301
73	Benzo(a)pyrene	50-32-8	J6IUE	99%	1,006.4	µg/mL	+/- 36.6170
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,002.0	µg/mL	+/- 36.4557
75	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,006.1	µg/mL	+/- 36.6029
76	Benzo(g,h,i)perylene	191-24-2	RP230511B	98%	1,006.8	µg/mL	+/- 36.6295

* 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.)

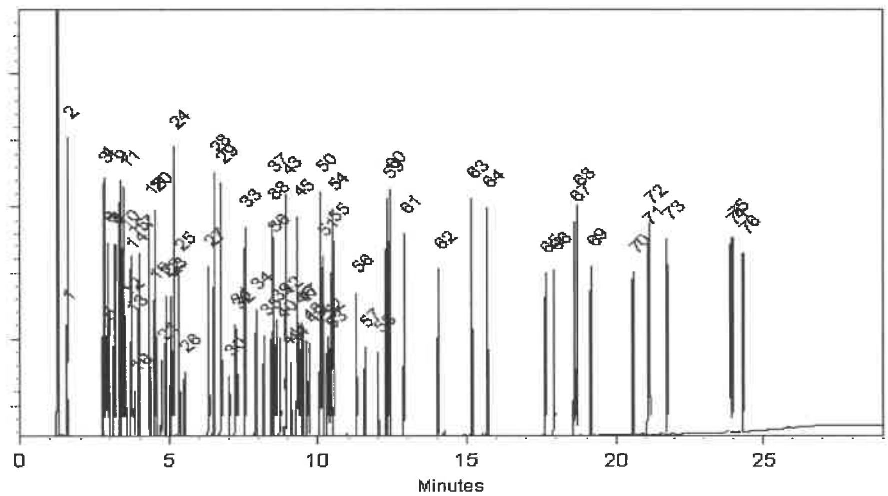
Inj. Temp:
250°C

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.

Tom Suckar - Mix Technician | **Date Mixed:** 11-May-2023 | **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC | **Date Passed:** 18-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0201320

S12013
↓
S12042

RC
12/26/23

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 : July 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%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* 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.)

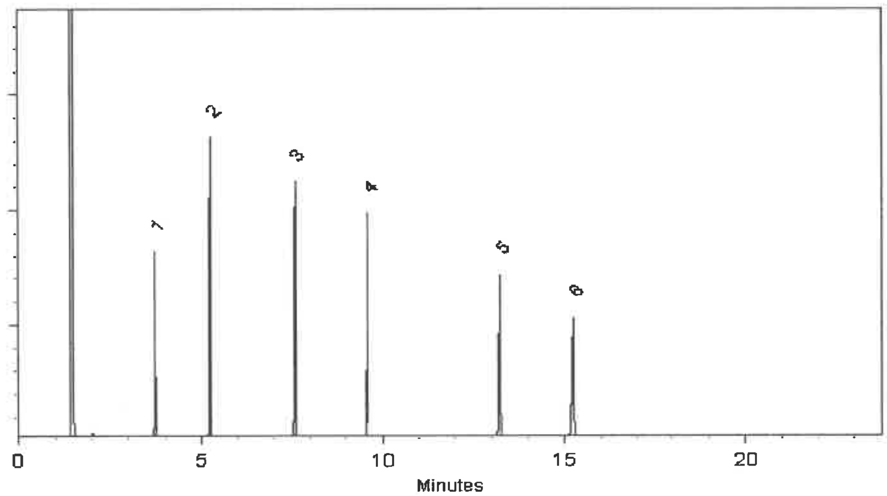
Inj. Temp:
250°C

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.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

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
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
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.:** A0201320

S12013
↓
S12042

RC
12/26/23

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 : July 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%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* 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.)

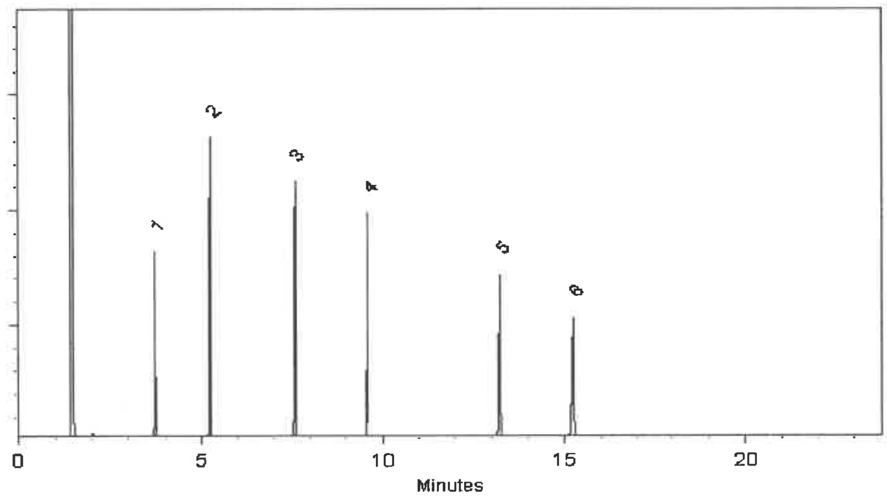
Inj. Temp:
250°C

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.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0201320

S12013 → S12042 RC 12/26/23

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 : July 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%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* 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.)

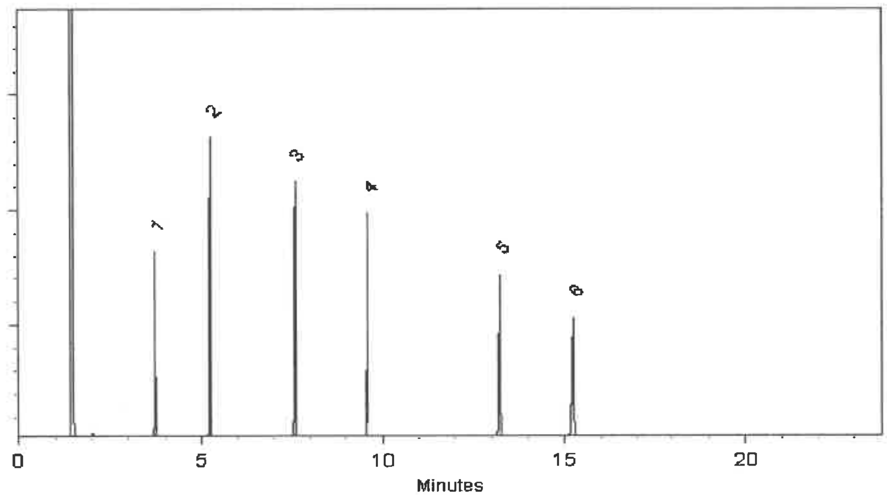
Inj. Temp:
250°C

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.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:____________

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075
↓
S12079

RC
02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082
↓
S12111
RC/
02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

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
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082
↓
S12111
RC/
02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082
↓
S12111

RC/
02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082
↓
S12111

RC/
02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

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
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082
↓
S12111
RC/ 02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I **Date Mixed:** 12-Feb-2024 **Balance:** B345965662

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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

S12082 ↓ S12111 RC/ 02/22/24

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 : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082
↓
S12111
RC/
02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082
↓
S12111
RC/
02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I **Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I **Date Mixed:** 12-Feb-2024 **Balance:** B345965662

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-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

512112
↓
512116

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.

CERTIFIED REFERENCE MATERIAL

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

S12117
↓
S12146
RC/
03/18/24

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

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%

Alliance

TECHNICAL GROUP

SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. P3467
COC Number 2041309

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yurtanis
PHONE: (281) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC P/C
PROJECT NO.: D3774927 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☒ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other

ANALYSIS

1. VOCs 8260D
2. SVOCs + PAHs 8270E, 8270E SIM
3. Metals 6020B; Hg 7470B
4. Cr(VI) 7196A
5.
6.
7.
8.
9.

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 A/E	2 E	3 B/E	4 E	5	6	7	8	9	COMMENTS ← Specify Preservatives A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER
1.	919-J-WS-080224	WS		X	8/2/24	1325	8	2	4	1	1						
2.	TB-03-080224	DI		X	8/2/24	1505	1	1									
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. [signature]	8/2/24 1620	1. [signature] 8-2-24 1620
2.		2.
3. [signature]	8-2-24 1745	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.9°C °C

Comments: See attached table for required analytes list of ECO-VOCs, ECO-SVOCs, and ECO metals
2L extra volume for SVOC + PAH analysis

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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 (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3467 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : Mary I. Murphy
Invoice Name : JACOBS Engineering Grou
Invoice Contact : Mary I. Murphy

Order Date : 8/2/2024 4:30:00 PM
Project Name : Former Schlumberger Site I
Receive DateTime : 8/2/2024 ~~12:00:00~~ AM 16:45
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
P3467-01	919-J-WS-080224	Water	08/02/2024	13:25						
					VOCMS Group6		8260-Low	10 Bus. Days		
P3467-02	TB-03-080224	Water	08/02/2024	15:05						
					VOCMS Group6		8260-Low	10 Bus. Days		

Relinquished By : [signature]
Date / Time : 8-5-24 850

Received By : [signature]
Date / Time : 8/5/24 8:50 R# 4

Storage Area : VOA Refridgerator Room