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

Cover Page

Order ID : P4495

Project ID : NJ Soil PT

Client : Chemtech Consulting Group

Lab Sample Number	Client Sample Number
P4495-01	PT-AN-SOIL
P4495-02	PT-CORR-SOIL
P4495-03	PT-CN-SOIL
P4495-04	PT-CN-SOIL
P4495-05	PT-FP-SOIL
P4495-06	PT-CR6-SOIL
P4495-07	PT-NUT-SOIL
P4495-08	PT-NUT-SOIL
P4495-09	PT-OGR-SOIL
P4495-10	PT-MET-SOIL
P4495-11	PT-BNA-SOIL
P4495-12	PT-TRIAZINE-SOIL
P4495-13	PT-PAH-SOIL
P4495-14	PT-DIES-SOIL
P4495-15	PT-GAS-SOIL
P4495-16	PT-NJEPH-SOIL
P4495-17	PT-HERB-SOIL
P4495-18	PT-PCB-SOIL
P4495-19	PT-PCBO-SOIL
P4495-20	PT-PEST-SOIL
P4495-21	PT-CHLR-SOIL
P4495-22	PT-TXP-SOIL
P4495-23	PT-VOA-SOIL
P4495-24	PT-SOL-SOIL
P4495-25	PT-NO2-SOIL

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: 12/2/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4495**

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

QA Review Signature: **PATEL VAISHALI** **Date:** **12/02/2024**

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

LAB CHRONICLE

OrderID:	P4495	**OrderDate:**	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	**Project:**	NJ Soil PT
Contact:	QA Officer	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-11	**PT-BNA-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group1	8270E		10/25/24	11/13/24	
			SVOCMS Group2	8270-Modified		10/25/24	11/14/24	
P4495-11DL	**PT-BNA-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group1	8270E		10/25/24	11/13/24	
			SVOCMS Group2	8270-Modified		10/25/24	11/14/24	
P4495-12	**PT-TRIAZINE-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group4	8270E		10/25/24	10/29/24	
P4495-13	**PT-PAH-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group3	8270-Modified		10/25/24	11/14/24	
P4495-13DL	**PT-PAH-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group3	8270-Modified		10/25/24	11/14/24	

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

Hit Summary Sheet
SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**PT-BNA-SOIL**							
P4495-11	PT-BNA-SOIL	SOIL	bis(2-Chloroethyl)ether	5,500.000	E	83.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Chlorophenol	2,100.000		83.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,2-Dichlorobenzene	2,600.000		84.4	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,3-Dichlorobenzene	3,800.000	E	85.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,4-Dichlorobenzene	4,400.000	E	86.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2,2-oxybis(1-Chloropropane)	3,000.000	E	90.7	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	n-Nitroso-di-n-propylamine	5,900.000	E	40.2	79.8	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Hexachloroethane	3,400.000	E	82.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Nitrobenzene	5,800.000	E	90.6	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Isophorone	4,400.000	E	84.4	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Nitrophenol	2,300.000		94.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	bis(2-Chloroethoxy)methane	4,000.000	E	85.6	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,2,4-Trichlorobenzene	4,600.000	E	85.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Methylnaphthalene	3,200.000	E	82.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2,4,6-Trichlorophenol	3,800.000	E	71.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Chloronaphthalene	2,300.000		83.1	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Dimethylphthalate	2,300.000		81.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Acenaphthylene	2,800.000	E	86.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Acenaphthene	2,400.000		80.9	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	4-Nitrophenol	2,800.000	E	120	330	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Dibenzofuran	4,000.000	E	84.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Fluorene	3,600.000	E	85.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	4-Bromophenyl-phenylether	3,300.000	E	78.7	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Hexachlorobenzene	2,600.000		84.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Pentachlorophenol	3,200.000	E	77.1	330	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Phenanthrene	2,100.000		83.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Anthracene	2,600.000		84.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Carbazole	3,200.000	E	80.1	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Di-n-butylphthalate	3,100.000	E	84.1	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Fluoranthene	1,600.000		81.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Butylbenzylphthalate	4,000.000	E	96.6	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Benzo(a)anthracene	2,100.000		80.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Bis(2-ethylhexyl)phthalate	1,900.000		90.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Indeno(1,2,3-cd)pyrene	1,500.000		77.9	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2,3,4,6-Tetrachlorophenol	2,300.000		74.5	170	ug/Kg
			Total Svoc :	**112,500.00**				
			Total Concentration:	**112,500.00**				

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

Hit Summary Sheet
SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**PT-BNA-SOILDL**							
P4495-11DL	PT-BNA-SOILDL	SOIL	bis(2-Chloroethyl)ether	5,600.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Chlorophenol	1,900.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,2-Dichlorobenzene	2,600.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,3-Dichlorobenzene	3,900.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,4-Dichlorobenzene	4,700.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2,2-oxybis(1-Chloropropane)	2,800.000	D	450	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	n-Nitroso-di-n-propylamine	5,700.000	D	200	400	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Hexachloroethane	3,300.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Nitrobenzene	5,700.000	D	450	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Isophorone	4,300.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Nitrophenol	2,100.000	D	470	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	bis(2-Chloroethoxy)methane	3,800.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,2,4-Trichlorobenzene	4,700.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Methylnaphthalene	3,400.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2,4,6-Trichlorophenol	3,800.000	D	360	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Chloronaphthalene	2,300.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Dimethylphthalate	2,400.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Acenaphthylene	2,900.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Acenaphthene	2,400.000	D	400	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	4-Nitrophenol	2,100.000	D	580	1600	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Dibenzofuran	4,500.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Fluorene	3,900.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	4-Bromophenyl-phenylether	3,500.000	D	390	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Hexachlorobenzene	2,500.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Pentachlorophenol	2,400.000	D	390	1600	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Phenanthrene	2,100.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Anthracene	2,700.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Carbazole	3,300.000	D	400	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Di-n-butylphthalate	3,300.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Fluoranthene	1,600.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Butylbenzylphthalate	3,800.000	D	480	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Benzo(a)anthracene	2,000.000	D	400	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Bis(2-ethylhexyl)phthalate	1,900.000	D	450	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Indeno(1,2,3-cd)pyrene	1,200.000	D	390	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2,3,4,6-Tetrachlorophenol	2,100.000	D	370	850	ug/Kg
			Total Svoc :	**111,200.00**				
			Total Concentration:	**111,200.00**				



QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4495-11	PT-BNA-SOIL	2-Fluorophenol	150	88.0	59		18	112
		Phenol-d6	150	91.3	61		15	107
		Nitrobenzene-d5	100	64.2	64		18	107
		2-Fluorobiphenyl	100	65.3	65		20	109
		2,4,6-Tribromophenol	150	99.2	66		10	116
		Terphenyl-d14	100	83.0	83		10	105
P4495-11DL	PT-BNA-SOILDL	2-Fluorophenol	150	82.4	55		18	112
		Phenol-d6	150	84.0	56		15	107
		Nitrobenzene-d5	100	57.4	57		18	107
		2-Fluorobiphenyl	100	64.8	65		20	109
		2,4,6-Tribromophenol	150	91.7	61		10	116
		Terphenyl-d14	100	78.4	78		10	105
P4547-05MS	BP-F-20MS	2-Fluorophenol	150	90.8	61		18	112
		Phenol-d6	150	91.2	61		15	107
		Nitrobenzene-d5	100	66.4	66		18	107
		2-Fluorobiphenyl	100	61.5	61		20	109
		2,4,6-Tribromophenol	150	106	71		10	116
		Terphenyl-d14	100	68.7	69		10	105
P4547-05MSD	BP-F-20MSD	2-Fluorophenol	150	90.8	61		18	112
		Phenol-d6	150	91.9	61		15	107
		Nitrobenzene-d5	100	66.5	66		18	107
		2-Fluorobiphenyl	100	61.6	62		20	109
		2,4,6-Tribromophenol	150	109	73		10	116
		Terphenyl-d14	100	70.4	70		10	105
PB164401BL	PB164401BL	2-Fluorophenol	150	129	86		18	112
		Phenol-d6	150	126	84		15	107
		Nitrobenzene-d5	100	87.1	87		18	107
		2-Fluorobiphenyl	100	85.2	85		20	109
		2,4,6-Tribromophenol	150	121	80		10	116
		Terphenyl-d14	100	82.5	82		10	105
PB164401BS	PB164401BS	2-Fluorophenol	150	115	77		18	112
		Phenol-d6	150	112	75		15	107
		Nitrobenzene-d5	100	85.7	86		18	107
		2-Fluorobiphenyl	100	83.9	84		20	109
		2,4,6-Tribromophenol	150	135	90		10	116
		Terphenyl-d14	100	87.9	88		10	105

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.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4547-05MS		**Client Sample ID: BP-F-20MS**						**DataFile: BF140057.D**			
n-Nitrosodimethylamine	1200	0	940	ug/Kg	78				66	124	
Pyridine	1200	0	930	ug/Kg	78				45	119	
Benzaldehyde	1200	0	280	ug/Kg	23				10	86	
Aniline	1200	0	570	ug/Kg	48				10	88	
Phenol	1200	0	970	ug/Kg	81				67	126	
bis(2-Chloroethyl)ether	1200	0	940	ug/Kg	78				54	125	
2-Chlorophenol	1200	0	1000	ug/Kg	83				79	107	
1,2-Dichlorobenzene	1200	0	980	ug/Kg	82				61	105	
1,3-Dichlorobenzene	1200	0	930	ug/Kg	78				62	101	
1,4-Dichlorobenzene	1200	0	940	ug/Kg	78				63	104	
Benzyl Alcohol	1200	0	1000	ug/Kg	83				47	126	
2-Methylphenol	1200	0	970	ug/Kg	81				66	122	
2,2-oxybis(1-Chloropropane)	1200	0	910	ug/Kg	76				65	110	
Acetophenone	1200	0	920	ug/Kg	77				75	111	
3+4-Methylphenols	1200	0	940	ug/Kg	78				66	104	
N-Nitroso-di-n-propylamine	1200	0	950	ug/Kg	79				59	119	
Hexachloroethane	1200	0	960	ug/Kg	80				65	117	
Nitrobenzene	1200	0	930	ug/Kg	78				70	119	
Isophorone	1200	0	980	ug/Kg	82				76	122	
2-Nitrophenol	1200	0	1200	ug/Kg	100				54	145	
2,4-Dimethylphenol	1200	0	1100	ug/Kg	92				44	135	
bis(2-Chloroethoxy)methane	1200	0	950	ug/Kg	79				68	112	
2,4-Dichlorophenol	1200	0	990	ug/Kg	83				72	118	
1,2,4-Trichlorobenzene	1200	0	930	ug/Kg	78				57	103	
Benzoic acid	1200	0	890	ug/Kg	74				50	104	
Naphthalene	1200	0	940	ug/Kg	78				72	110	
4-Chloroaniline	1200	0	170	ug/Kg	14				10	91	
Hexachlorobutadiene	1200	0	960	ug/Kg	80				66	114	
Caprolactam	1200	0	990	ug/Kg	83				51	134	
4-Chloro-3-methylphenol	1200	0	990	ug/Kg	83				57	132	
2-Methylnaphthalene	1200	0	980	ug/Kg	82				59	123	
Hexachlorocyclopentadiene	2300	0	3100	ug/Kg	135				10	175	
2,4,6-Trichlorophenol	1200	0	1000	ug/Kg	83				72	117	
2,4,5-Trichlorophenol	1200	0	970	ug/Kg	81				72	117	
1,1-Biphenyl	1200	0	940	ug/Kg	78				75	113	
2-Chloronaphthalene	1200	0	940	ug/Kg	78				67	118	
2-Nitroaniline	1200	0	1100	ug/Kg	92				69	127	
Dimethylphthalate	1200	0	990	ug/Kg	83				70	113	
Acenaphthylene	1200	0	1000	ug/Kg	83				79	118	
2,6-Dinitrotoluene	1200	0	1000	ug/Kg	83				70	125	
3-Nitroaniline	1200	0	440	ug/Kg	37				30	99	
Acenaphthene	1200	0	1100	ug/Kg	92				70	121	
2,4-Dinitrophenol	2300	0	2300	ug/Kg	100				10	155	
4-Nitrophenol	2300	0	1900	ug/Kg	83				45	133	
Dibenzofuran	1200	0	950	ug/Kg	79				72	110	
2,4-Dinitrotoluene	1200	0	1100	ug/Kg	92				55	128	

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.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Diethylphthalate	1200	0	980	ug/Kg	82				70	112	
4-Chlorophenyl-phenylether	1200	0	970	ug/Kg	81				71	108	
Fluorene	1200	0	940	ug/Kg	78				68	116	
4-Nitroaniline	1200	0	970	ug/Kg	81				55	120	
4,6-Dinitro-2-methylphenol	1200	0	1400	ug/Kg	117				10	160	
N-Nitrosodiphenylamine	1200	0	980	ug/Kg	82				73	118	
Azobenzene	1200	0	1000	ug/Kg	83				73	110	
4-Bromophenyl-phenylether	1200	0	1000	ug/Kg	83				65	121	
Hexachlorobenzene	1200	0	980	ug/Kg	82				67	118	
Atrazine	1200	0	1200	ug/Kg	100				79	127	
Pentachlorophenol	2300	0	1900	ug/Kg	83				47	128	
Phenanthrene	1200	0	960	ug/Kg	80				52	128	
Anthracene	1200	0	1000	ug/Kg	83				62	124	
Carbazole	1200	0	910	ug/Kg	76				59	119	
Di-n-butylphthalate	1200	0	1000	ug/Kg	83				69	118	
Fluoranthene	1200	0	870	ug/Kg	73				44	125	
Benzidine	2300	0	1200	ug/Kg	52				10	119	
Pyrene	1200	0	970	ug/Kg	81				26	142	
Butylbenzylphthalate	1200	0	1300	ug/Kg	108				64	126	
3,3-Dichlorobenzidine	1200	0	520	ug/Kg	43				33	116	
Benzo(a)anthracene	1200	0	990	ug/Kg	83				71	114	
Chrysene	1200	0	950	ug/Kg	79				57	121	
bis(2-Ethylhexyl)phthalate	1200	0	1400	ug/Kg	117				42	169	
Di-n-octyl phthalate	1200	0	1200	ug/Kg	100				23	175	
Benzo(b)fluoranthene	1200	0	920	ug/Kg	77				67	121	
Benzo(k)fluoranthene	1200	0	1000	ug/Kg	83				57	134	
Benzo(a)pyrene	1200	0	1100	ug/Kg	92				70	142	
Indeno(1,2,3-cd)pyrene	1200	0	880	ug/Kg	73				40	129	
Dibenz(a,h)anthracene	1200	0	890	ug/Kg	74				43	123	
Benzo(g,h,i)perylene	1200	0	740	ug/Kg	62				24	125	
1,2,4,5-Tetrachlorobenzene	1200	0	960	ug/Kg	80				69	124	
1,4-Dioxane	1200	0	890	ug/Kg	74				46	112	
2,3,4,6-Tetrachlorophenol	1200	0	1000	ug/Kg	83				69	112	
1-Methylnaphthalene	1200	0	930	ug/Kg	78				70	130	

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.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4547-05MSD		**Client Sample ID: BP-F-20MSD**						**DataFile: BF140058.D**			
n-Nitrosodimethylamine	1200	0	900	ug/Kg	75		4		66	124	20
Pyridine	1200	0	880	ug/Kg	73		7		45	119	20
Benzaldehyde	1200	0	280	ug/Kg	23		0		10	86	20
Aniline	1200	0	580	ug/Kg	48		0		10	88	20
Phenol	1200	0	990	ug/Kg	83		2		67	126	20
bis(2-Chloroethyl)ether	1200	0	970	ug/Kg	81		4		54	125	20
2-Chlorophenol	1200	0	1000	ug/Kg	83		0		79	107	20
1,2-Dichlorobenzene	1200	0	980	ug/Kg	82		0		61	105	20
1,3-Dichlorobenzene	1200	0	950	ug/Kg	79		1		62	101	20
1,4-Dichlorobenzene	1200	0	970	ug/Kg	81		4		63	104	20
Benzyl Alcohol	1200	0	1000	ug/Kg	83		0		47	126	20
2-Methylphenol	1200	0	990	ug/Kg	83		2		66	122	20
2,2-oxybis(1-Chloropropane)	1200	0	920	ug/Kg	77		1		65	110	20
Acetophenone	1200	0	930	ug/Kg	78		1		75	111	20
3+4-Methylphenols	1200	0	960	ug/Kg	80		3		66	104	20
N-Nitroso-di-n-propylamine	1200	0	960	ug/Kg	80		1		59	119	20
Hexachloroethane	1200	0	970	ug/Kg	81		1		65	117	20
Nitrobenzene	1200	0	940	ug/Kg	78		0		70	119	20
Isophorone	1200	0	990	ug/Kg	83		1		76	122	20
2-Nitrophenol	1200	0	1200	ug/Kg	100		0		54	145	20
2,4-Dimethylphenol	1200	0	1100	ug/Kg	92		0		44	135	20
bis(2-Chloroethoxy)methane	1200	0	970	ug/Kg	81		3		68	112	20
2,4-Dichlorophenol	1200	0	990	ug/Kg	83		0		72	118	20
1,2,4-Trichlorobenzene	1200	0	930	ug/Kg	78		0		57	103	20
Benzoic acid	1200	0	900	ug/Kg	75		1		50	104	20
Naphthalene	1200	0	950	ug/Kg	79		1		72	110	20
4-Chloroaniline	1200	0	170	ug/Kg	14		0		10	91	20
Hexachlorobutadiene	1200	0	990	ug/Kg	83		4		66	114	20
Caprolactam	1200	0	1000	ug/Kg	83		0		51	134	20
4-Chloro-3-methylphenol	1200	0	1000	ug/Kg	83		0		57	132	20
2-Methylnaphthalene	1200	0	980	ug/Kg	82		0		59	123	20
Hexachlorocyclopentadiene	2300	0	3100	ug/Kg	135		0		10	175	20
2,4,6-Trichlorophenol	1200	0	1000	ug/Kg	83		0		72	117	20
2,4,5-Trichlorophenol	1200	0	990	ug/Kg	83		2		72	117	20
1,1-Biphenyl	1200	0	950	ug/Kg	79		1		75	113	20
2-Chloronaphthalene	1200	0	940	ug/Kg	78		0		67	118	20
2-Nitroaniline	1200	0	1100	ug/Kg	92		0		69	127	20
Dimethylphthalate	1200	0	1000	ug/Kg	83		0		70	113	20
Acenaphthylene	1200	0	1000	ug/Kg	83		0		79	118	20
2,6-Dinitrotoluene	1200	0	1000	ug/Kg	83		0		70	125	20
3-Nitroaniline	1200	0	450	ug/Kg	38		3		30	99	20
Acenaphthene	1200	0	1100	ug/Kg	92		0		70	121	20
2,4-Dinitrophenol	2300	0	2400	ug/Kg	104		4		10	155	20
4-Nitrophenol	2300	0	2000	ug/Kg	87		5		45	133	20
Dibenzofuran	1200	0	980	ug/Kg	82		4		72	110	20
2,4-Dinitrotoluene	1200	0	1100	ug/Kg	92		0		55	128	20

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Diethylphthalate	1200	0	990	ug/Kg	83	1			70	112	20
4-Chlorophenyl-phenylether	1200	0	980	ug/Kg	82	1			71	108	20
Fluorene	1200	0	950	ug/Kg	79	1			68	116	20
4-Nitroaniline	1200	0	1000	ug/Kg	83	2			55	120	20
4,6-Dinitro-2-methylphenol	1200	0	1400	ug/Kg	117	0			10	160	20
N-Nitrosodiphenylamine	1200	0	990	ug/Kg	83	1			73	118	20
Azobenzene	1200	0	1000	ug/Kg	83	0			73	110	20
4-Bromophenyl-phenylether	1200	0	1000	ug/Kg	83	0			65	121	20
Hexachlorobenzene	1200	0	990	ug/Kg	83	1			67	118	20
Atrazine	1200	0	1200	ug/Kg	100	0			79	127	20
Pentachlorophenol	2300	0	1900	ug/Kg	83	0			47	128	20
Phenanthrene	1200	0	970	ug/Kg	81	1			52	128	20
Anthracene	1200	0	1000	ug/Kg	83	0			62	124	20
Carbazole	1200	0	910	ug/Kg	76	0			59	119	20
Di-n-butylphthalate	1200	0	1000	ug/Kg	83	0			69	118	20
Fluoranthene	1200	0	890	ug/Kg	74	1			44	125	20
Benzidine	2300	0	1300	ug/Kg	57	9			10	119	20
Pyrene	1200	0	980	ug/Kg	82	1			26	142	20
Butylbenzylphthalate	1200	0	1300	ug/Kg	108	0			64	126	20
3,3-Dichlorobenzidine	1200	0	530	ug/Kg	44	2			33	116	20
Benzo(a)anthracene	1200	0	1000	ug/Kg	83	0			71	114	20
Chrysene	1200	0	970	ug/Kg	81	3			57	121	20
bis(2-Ethylhexyl)phthalate	1200	0	1500	ug/Kg	125	7			42	169	20
Di-n-octyl phthalate	1200	0	1300	ug/Kg	108	8			23	175	20
Benzo(b)fluoranthene	1200	0	920	ug/Kg	77	0			67	121	20
Benzo(k)fluoranthene	1200	0	1000	ug/Kg	83	0			57	134	20
Benzo(a)pyrene	1200	0	1100	ug/Kg	92	0			70	142	20
Indeno(1,2,3-cd)pyrene	1200	0	890	ug/Kg	74	1			40	129	20
Dibenz(a,h)anthracene	1200	0	890	ug/Kg	74	0			43	123	20
Benzo(g,h,i)perylene	1200	0	740	ug/Kg	62	0			24	125	20
1,2,4,5-Tetrachlorobenzene	1200	0	960	ug/Kg	80	0			69	124	20
1,4-Dioxane	1200	0	860	ug/Kg	72	3			46	112	20
2,3,4,6-Tetrachlorophenol	1200	0	1000	ug/Kg	83	0			69	112	20
1-Methylnaphthalene	1200	0	940	ug/Kg	78	0			70	130	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270E **DataFile:** BF140052.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164401BS	n-Nitrosodimethylamine	1700	1300	ug/Kg	76				57	103	
	Pyridine	1700	1300	ug/Kg	76				28	98	
	Benzaldehyde	1700	450	ug/Kg	26				10	133	
	Aniline	1700	1200	ug/Kg	71				38	100	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	1,2-Dichlorobenzene	1700	1500	ug/Kg	88				51	102	
	1,3-Dichlorobenzene	1700	1400	ug/Kg	82				52	99	
	1,4-Dichlorobenzene	1700	1400	ug/Kg	82				52	100	
	Benzyl Alcohol	1700	1500	ug/Kg	88				42	116	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1400	ug/Kg	82				66	98	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1400	ug/Kg	82				72	108	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1700	ug/Kg	100				61	111	
	2,4-Dimethylphenol	1700	1600	ug/Kg	94				46	141	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				66	97	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	1,2,4-Trichlorobenzene	1700	1400	ug/Kg	82				44	110	
	Benzoic acid	1700	1300	ug/Kg	76				10	140	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	580	ug/Kg	34				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	5400	ug/Kg	164				45	165	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1600	ug/Kg	94				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	1000	ug/Kg	59				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3600	ug/Kg	109				37	128	
	4-Nitrophenol	3300	3200	ug/Kg	97				48	119	

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.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270E **DataFile:** BF140052.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164401BS	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1600	ug/Kg	94				64	103	
	4,6-Dinitro-2-methylphenol	1700	2000	ug/Kg	118		*		76	113	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				71	99	
	Azobenzene	1700	1400	ug/Kg	82				54	103	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	
	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1700	ug/Kg	100				47	152	
	Pentachlorophenol	3300	2900	ug/Kg	88				67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Benzidine	3300	1600	ug/Kg	48				10	98	
	Pyrene	1700	1500	ug/Kg	88				59	103	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				55	103	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				54	135	
	Di-n-octyl phthalate	1700	1300	ug/Kg	76				52	137	
	Benzo(b)fluoranthene	1700	1400	ug/Kg	82				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				63	101	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				61	112	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				53	101	
	1,4-Dioxane	1700	1200	ug/Kg	71				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				59	108	
	1-Methylnaphthalene	1700	1400	ug/Kg	82				70	130	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164401BL

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Lab File ID: BF140342.D Lab Sample ID: PB164401BL

Instrument ID: BNA_F Date Extracted: 10/25/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/13/2024

Level: (low/med) LOW Time Analyzed: 13:45

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PT-BNA-SOIL	P4495-11	BF140343.D	11/13/2024
BP-F-20MS	P4547-05MS	BF140057.D	10/26/2024
BP-F-20MSD	P4547-05MSD	BF140058.D	10/26/2024
PB164401BS	PB164401BS	BF140052.D	10/26/2024

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: CHEM02

Lab Code: CHEM SAS No.: P4495 SDG NO.: P4495

Lab File ID: BF139843.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.9 (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
SSTDICC2.5	SSTDICC2.5	BF139844.D	10/18/2024	10:27
SSTDICC005	SSTDICC005	BF139845.D	10/18/2024	10:55
SSTDICC010	SSTDICC010	BF139846.D	10/18/2024	11:23
SSTDICC020	SSTDICC020	BF139847.D	10/18/2024	11:52
SSTDICCC040	SSTDICCC040	BF139848.D	10/18/2024	12:20
SSTDICC050	SSTDICC050	BF139849.D	10/18/2024	12:49
SSTDICC060	SSTDICC060	BF139850.D	10/18/2024	13:17
SSTDICC080	SSTDICC080	BF139851.D	10/18/2024	13:46

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: CHEM02

Lab Code: CHEM SAS No.: P4495 SDG NO.: P4495

Lab File ID: BF140049.D DFTPP Injection Date: 10/26/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.1
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	47.5
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	6.5
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140050.D	10/26/2024	10:38
PB164401BS	PB164401BS	BF140052.D	10/26/2024	11:34
BP-F-20MS	P4547-05MS	BF140057.D	10/26/2024	13:58
BP-F-20MSD	P4547-05MSD	BF140058.D	10/26/2024	14:27

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: CHEM02

Lab Code: CHEM SAS No.: P4495 SDG NO.: P4495

Lab File ID: BF140331.D DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (18.8) 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	BF140332.D	11/13/2024	09:01
SSTDICC005	SSTDICC005	BF140333.D	11/13/2024	09:27
SSTDICC010	SSTDICC010	BF140334.D	11/13/2024	09:53
SSTDICC020	SSTDICC020	BF140335.D	11/13/2024	10:29
SSTDICC050	SSTDICC050	BF140337.D	11/13/2024	11:21
SSTDICC060	SSTDICC060	BF140338.D	11/13/2024	11:47
SSTDICC080	SSTDICC080	BF140339.D	11/13/2024	12:13
SSTDICCC040	SSTDICCC040	BF140340.D	11/13/2024	12:48
PB164401BL	PB164401BL	BF140342.D	11/13/2024	13:45
PT-BNA-SOIL	P4495-11	BF140343.D	11/13/2024	15:25
PT-BNA-SOILDL	P4495-11DL	BF140344.D	11/13/2024	16:02

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.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	128827	6.892	465620	8.18	252523	9.93
	UPPER LIMIT	257654	7.392	931240	8.675	505046	10.428
	LOWER LIMIT	64413.5	6.392	232810	7.675	126262	9.428
	EPA SAMPLE NO.						
01	PB164401BS	133953	6.89	523078	8.17	286545	9.93
02	BP-F-20MS	141513	6.89	556548	8.17	317233	9.93
03	BP-F-20MSD	142054	6.89	561979	8.17	322249	9.93

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.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	452033	11.416	241717	14.051	235878	15.533
	UPPER LIMIT	904066	11.916	483434	14.551	471756	16.033
	LOWER LIMIT	226017	10.916	120859	13.551	117939	15.033
	EPA SAMPLE NO.						
01	PB164401BS	514956	11.42	290190	14.06	270508	15.53
02	BP-F-20MS	543034	11.42	260710	14.05	285198	15.53
03	BP-F-20MSD	559748	11.42	268566	14.05	301700	15.53

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.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/13/2024

Lab File ID: BF140340.D Time Analyzed: 12:48

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	147186	6.875	589077	8.16	334544	9.92
	UPPER LIMIT	294372	7.375	1178150	8.657	669088	10.416
	LOWER LIMIT	73593	6.375	294539	7.657	167272	9.416
	EPA SAMPLE NO.						
01	PB164401BL	155301	6.88	608379	8.16	344211	9.91
02	PT-BNA-SOIL	108039	6.88	422748	8.16	238094	9.91
03	PT-BNA-SOILDL	114318	6.88	459141	8.16	255752	9.91

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.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/13/2024

Lab File ID: BF140340.D Time Analyzed: 12:48

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	628587	11.404	385940	14.063	322417	15.58
	UPPER LIMIT	1257170	11.904	771880	14.563	644834	16.08
	LOWER LIMIT	314294	10.904	192970	13.563	161209	15.08
	EPA SAMPLE NO.						
01	PB164401BL	680121	11.40	465934	14.06	362493	15.57
02	PT-BNA-SOIL	444526	11.40	249001	14.08	223254	15.62
03	PT-BNA-SOILDL	482859	11.40	303940	14.06	245817	15.59

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

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

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



SAMPLE DATA

Raw Data: **BF140343.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	86.6	U	86.6	330	ug/Kg
110-86-1	Pyridine	79.7	U	79.7	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
62-53-3	Aniline	96.7	U	96.7	170	ug/Kg
108-95-2	Phenol	82.7	U	82.7	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	5500	E	83.5	170	ug/Kg
95-57-8	2-Chlorophenol	2100		83.3	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	2600		84.4	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	3800	E	85.8	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	4400	E	86.3	170	ug/Kg
100-51-6	Benzyl Alcohol	82.8	U	82.8	330	ug/Kg
95-48-7	2-Methylphenol	80.4	U	80.4	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	3000	E	90.7	170	ug/Kg
98-86-2	Acetophenone	86.7	U	86.7	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.6	U	79.6	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	5900	E	40.2	79.8	ug/Kg
67-72-1	Hexachloroethane	3400	E	82.8	170	ug/Kg
98-95-3	Nitrobenzene	5800	E	90.6	170	ug/Kg
78-59-1	Isophorone	4400	E	84.4	170	ug/Kg
88-75-5	2-Nitrophenol	2300		94.3	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.0	U	93.0	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	4000	E	85.6	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.3	U	75.3	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4600	E	85.2	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	330	ug/Kg
91-20-3	Naphthalene	82.4	U	82.4	170	ug/Kg
106-47-8	4-Chloroaniline	82.4	U	82.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.1	U	83.1	170	ug/Kg
105-60-2	Caprolactam	86.6	U	86.6	330	ug/Kg

Raw Data: **BF140343.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	77.3	U	77.3	170	ug/Kg
91-57-6	2-Methylnaphthalene	3200	E	82.3	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	3800	E	71.2	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	73.8	U	73.8	170	ug/Kg
92-52-4	1,1-Biphenyl	87.2	U	87.2	170	ug/Kg
91-58-7	2-Chloronaphthalene	2300		83.1	170	ug/Kg
88-74-4	2-Nitroaniline	94.8	U	94.8	170	ug/Kg
131-11-3	Dimethylphthalate	2300		81.5	170	ug/Kg
208-96-8	Acenaphthylene	2800	E	86.3	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.0	U	83.0	170	ug/Kg
99-09-2	3-Nitroaniline	89.0	U	89.0	170	ug/Kg
83-32-9	Acenaphthene	2400		80.9	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	2800	E	120	330	ug/Kg
132-64-9	Dibenzofuran	4000	E	84.2	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.0	U	86.0	170	ug/Kg
84-66-2	Diethylphthalate	79.9	U	79.9	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.4	U	85.4	170	ug/Kg
86-73-7	Fluorene	3600	E	85.3	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	UQ	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.4	U	81.4	170	ug/Kg
103-33-3	Azobenzene	79.4	U	79.4	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	3300	E	78.7	170	ug/Kg
118-74-1	Hexachlorobenzene	2600		84.8	170	ug/Kg
1912-24-9	Atrazine	91.2	U	91.2	170	ug/Kg
87-86-5	Pentachlorophenol	3200	E	77.1	330	ug/Kg
85-01-8	Phenanthrene	2100		83.8	170	ug/Kg
120-12-7	Anthracene	2600		84.2	170	ug/Kg
86-74-8	Carbazole	3200	E	80.1	170	ug/Kg

Raw Data: **BF140343.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	3100	E	84.1	170	ug/Kg
206-44-0	Fluoranthene	1600		81.5	170	ug/Kg
92-87-5	Benzidine	160	U	160	330	ug/Kg
129-00-0	Pyrene	82.8	U	82.8	170	ug/Kg
85-68-7	Butylbenzylphthalate	4000	E	96.6	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.4	U	98.4	330	ug/Kg
56-55-3	Benzo(a)anthracene	2100		80.5	170	ug/Kg
218-01-9	Chrysene	79.3	U	79.3	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		90.8	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	80.9	U	80.9	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.4	U	82.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.8	U	92.8	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		77.9	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.0	U	81.0	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	79.9	U	79.9	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.6	U	86.6	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2300		74.5	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.0	U	83.0	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	88.0		18 - 112	59%	SPK: 150
13127-88-3	Phenol-d6	91.3		15 - 107	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.2		18 - 107	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.3		20 - 109	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	99.2		10 - 116	66%	SPK: 150
1718-51-0	Terphenyl-d14	83.0		10 - 105	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	108000	6.875			
1146-65-2	Naphthalene-d8	423000	8.157			

Raw Data: **BF140343.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	238000	9.91			
1517-22-2	Phenanthrene-d10	445000	11.404			
1719-03-5	Chrysene-d12	249000	14.08			
1520-96-3	Perylene-d12	223000	15.615			

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: **BF140343.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140343.D
Acq On : 13 Nov 2024 15:25
Operator : RC/JU
Sample : P4495-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Quant Time: Nov 13 15:47:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	108039	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	422748	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	238094	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	444526	20.000	ng		0.00
76) Chrysene-d12	14.080	240	249001	20.000	ng		0.03
86) Perylene-d12	15.615	264	223254	20.000	ng		0.06
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	556914	88.011	ng		0.00
7) Phenol-d6	6.504	99	782386	91.261	ng		0.00
23) Nitrobenzene-d5	7.439	82	520767	64.183	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	234780	99.161	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	967105	65.296	ng		0.00
79) Terphenyl-d14	12.986	244	1190175	82.967	ng		0.00
Target Compounds							Qvalue
8) 2-Chlorophenol	6.663	128	421965	62.079	ng		97
11) bis(2-Chloroethyl)ether	6.610	93	1129089	164.822	ng		97
12) 1,3-Dichlorobenzene	6.822	146	860716	114.767	ng		98
13) 1,4-Dichlorobenzene	6.898	146	1014991	133.473	ng		99
14) 1,2-Dichlorobenzene	7.045	146	561921	79.597	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.151	45	859620	90.848	ng		99
18) Hexachloroethane	7.387	117	287562	102.288	ng		97
19) n-Nitroso-di-n-propyla...	7.287	70	922263	178.119	ng		99
24) Nitrobenzene	7.463	77	1483250	175.578	ng		99
25) Isophorone	7.698	82	1900488	132.162	ng		99
26) 2-Nitrophenol	7.775	139	263319	70.242	ng		98
28) bis(2-Chloroethoxy)met...	7.904	93	1052408	119.355	ng		99
30) 1,2,4-Trichlorobenzene	8.098	180	904059	136.903	ng		99
37) 2-Methylnaphthalene	8.869	142	1326111	96.437	ng		100
43) 2,4,6-Trichlorophenol	9.145	196	494298	114.397	ng		99
47) 2-Chloronaphthalene	9.357	162	924392	70.058	ng		99
49) Acenaphthylene	9.775	152	1679459	84.127	ng		99
50) Dimethylphthalate	9.628	163	1090706	70.281	ng		100
52) Acenaphthene	9.945	154	956155	70.912	ng		99
55) Dibenzofuran	10.122	168	2309277	120.981	ng		98
56) 4-Nitrophenol	10.022	139	226972	83.748	ng		99
58) Fluorene	10.469	166	1626805	107.884	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	256761	68.835	ng		98
67) 4-Bromophenyl-phenylether	10.945	248	446043	100.380	ng		97
68) Hexachlorobenzene	11.016	284	388838	77.774	ng		99
70) Pentachlorophenol	11.204	266	260213	96.621	ng		98
71) Phenanthrene	11.427	178	1288889	61.723	ng		99
72) Anthracene	11.480	178	1575371	76.977	ng		100
73) Carbazole	11.639	167	1931830	95.599	ng		99
74) Di-n-butylphthalate	11.963	149	2264149	93.353	ng		99
75) Fluoranthene	12.616	202	1117672	47.707	ng		100
80) Butylbenzylphthalate	13.474	149	978772	119.626	ng		99
81) Benzo(a)anthracene	14.068	228	1045637	63.895	ng		100
84) Bis(2-ethylhexyl)phtha...	14.051	149	634241	58.075	ng		99
87) Indeno(1,2,3-cd)pyrene	17.127	276	607196	44.028	ng	#	93

Sample Results: **BF140343.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140343.D
Acq On : 13 Nov 2024 15:25
Operator : RC/JU
Sample : P4495-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Quant Time: Nov 13 15:47:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

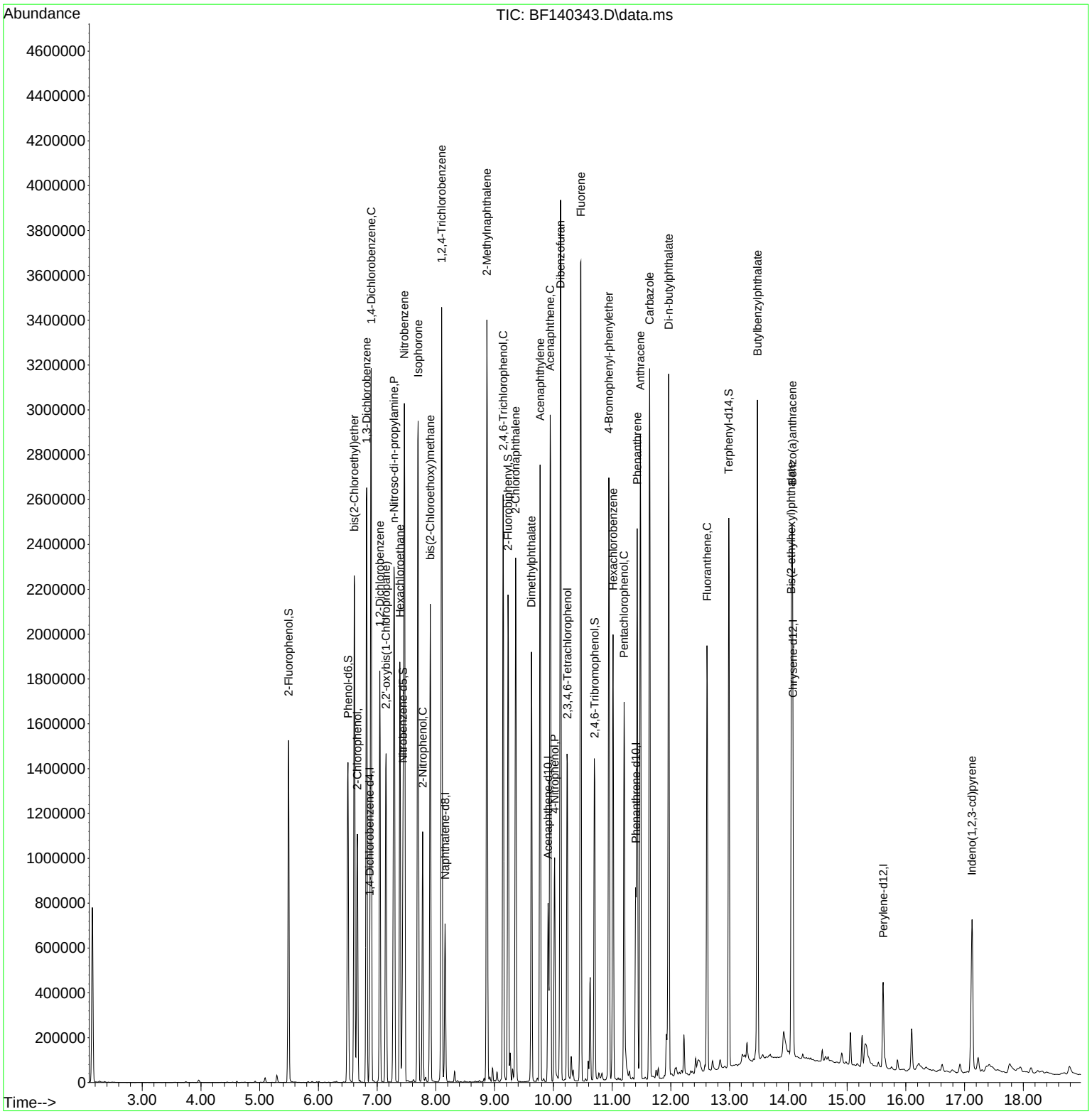
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

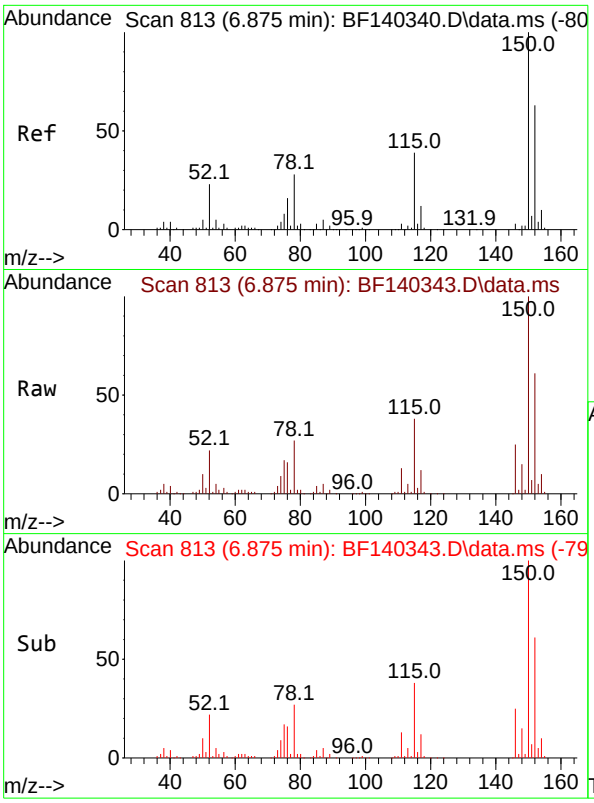
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140343.D
Acq On : 13 Nov 2024 15:25
Operator : RC/JU
Sample : P4495-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Quant Time: Nov 13 15:47:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



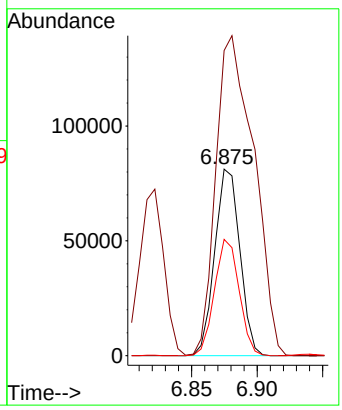


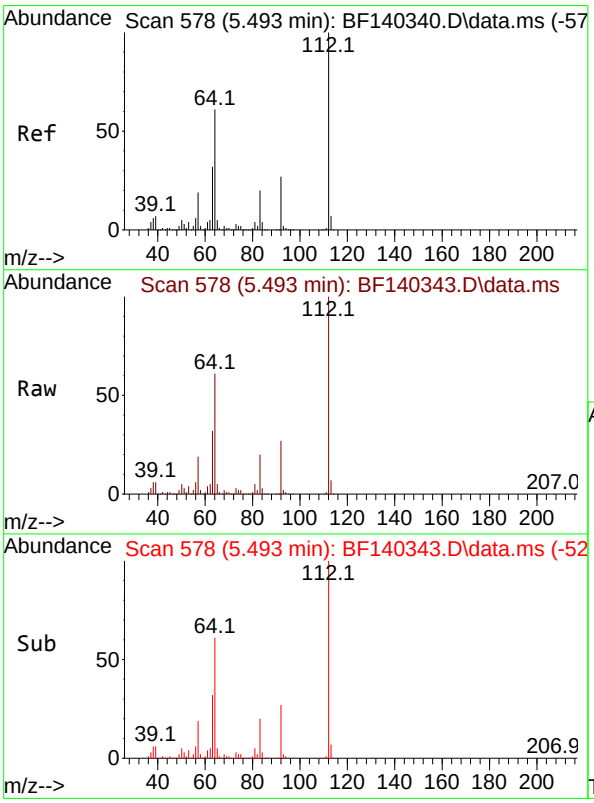
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:152 Resp: 108039

Ion	Ratio	Lower	Upper
152	100		
150	163.6	127.4	191.0
115	62.3	47.4	71.2

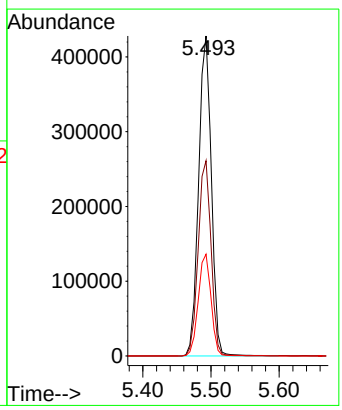


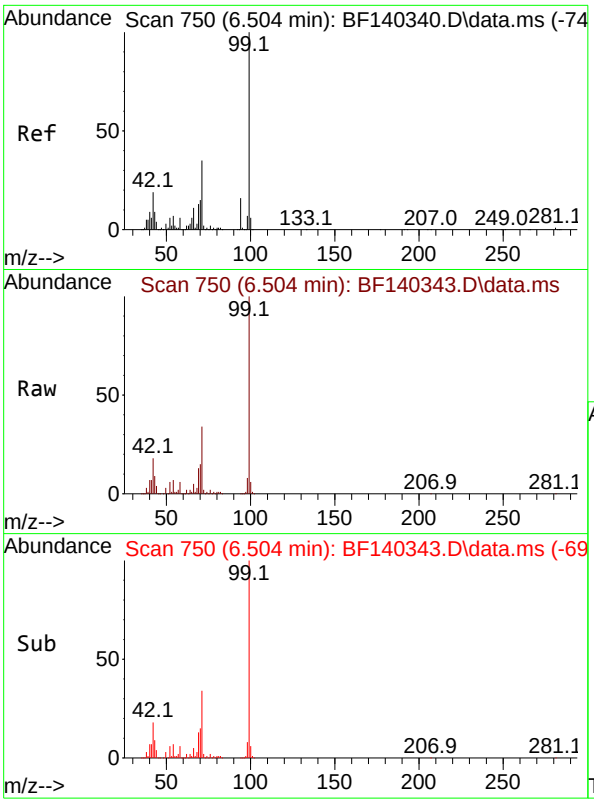


#5
2-Fluorophenol
Concen: 88.011 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:112 Resp: 556914

Ion	Ratio	Lower	Upper
112	100		
64	61.0	49.2	73.8
63	31.8	25.6	38.4



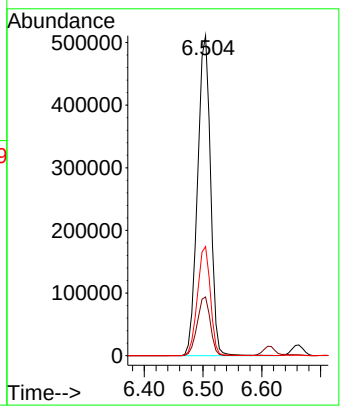


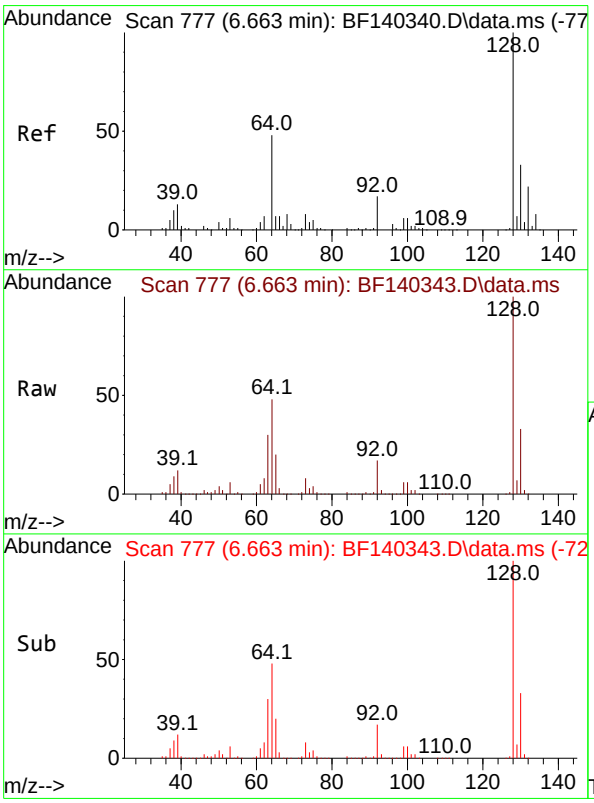
#7
Phenol-d6
Concen: 91.261 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion: 99 Resp: 782386

Ion	Ratio	Lower	Upper
99	100		
42	18.3	15.1	22.7
71	34.1	27.9	41.9

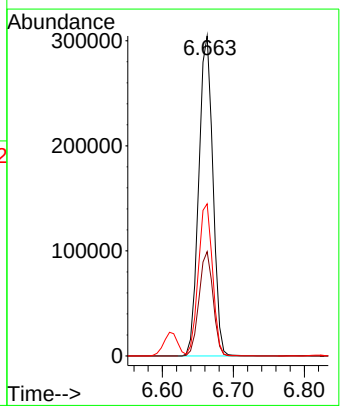


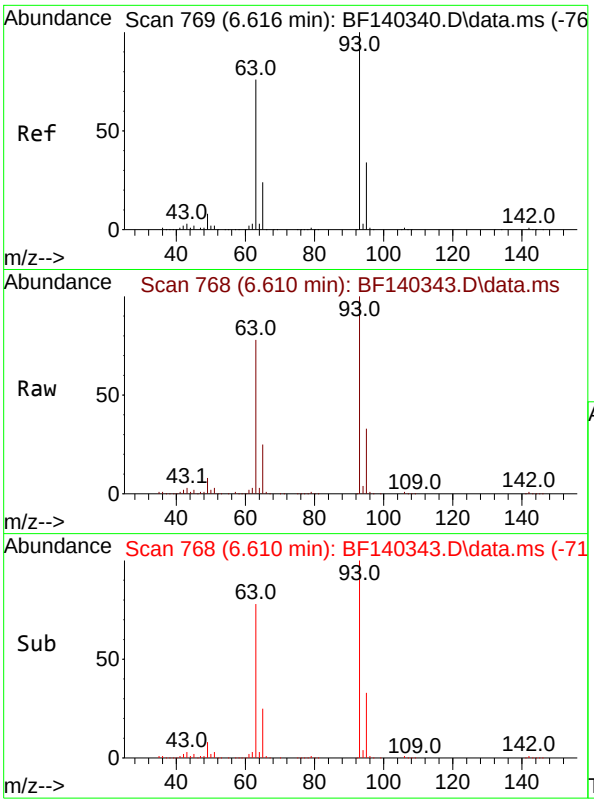


#8
2-Chlorophenol
Concen: 62.079 ng
RT: 6.663 min Scan# 777
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:128 Resp: 421965

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.2	52.2
64	47.6	30.2	70.2



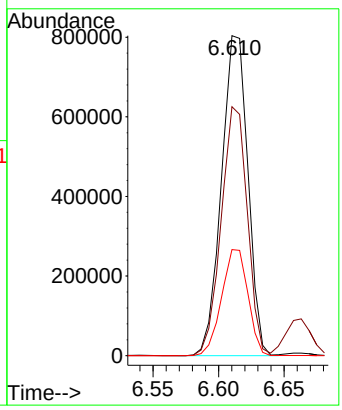


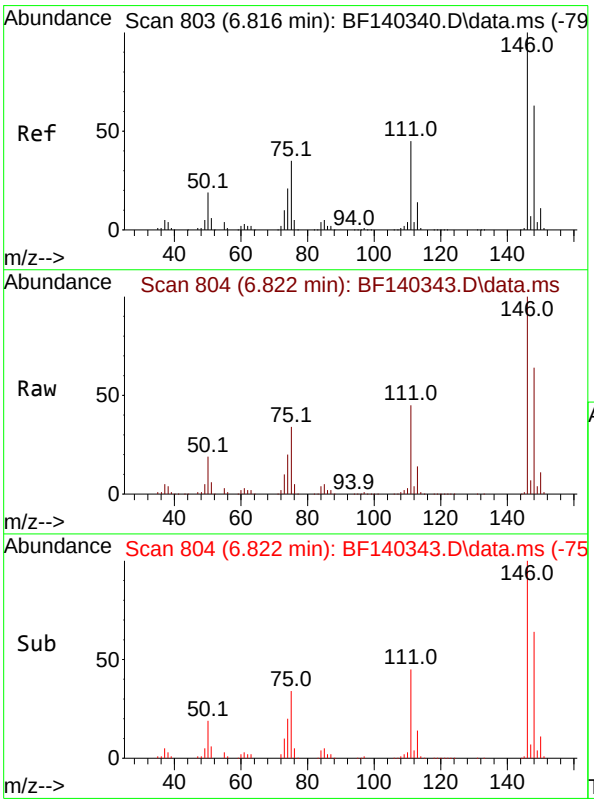
#11
bis(2-Chloroethyl)ether
Concen: 164.822 ng
RT: 6.610 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion: 93 Resp: 1129089

Ion	Ratio	Lower	Upper
93	100		
63	77.8	54.0	94.0
95	33.1	12.9	52.9

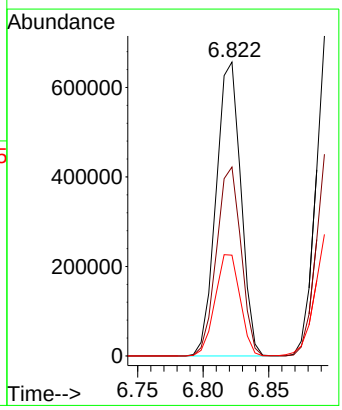


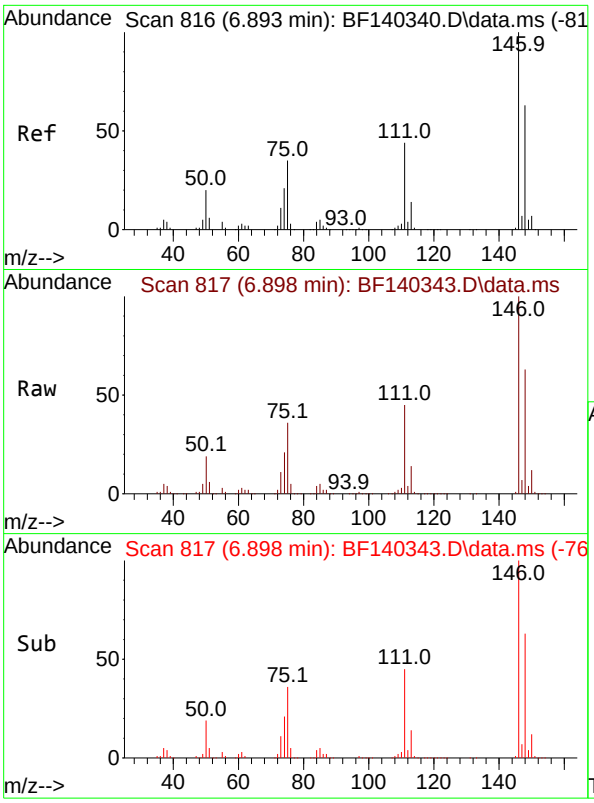


#12
1,3-Dichlorobenzene
Concen: 114.767 ng
RT: 6.822 min Scan# 804
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:146 Resp: 860716

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.7	76.1
75	34.3	26.4	39.6



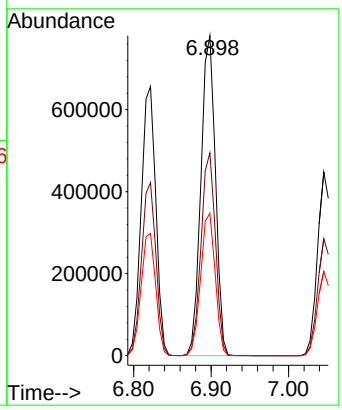


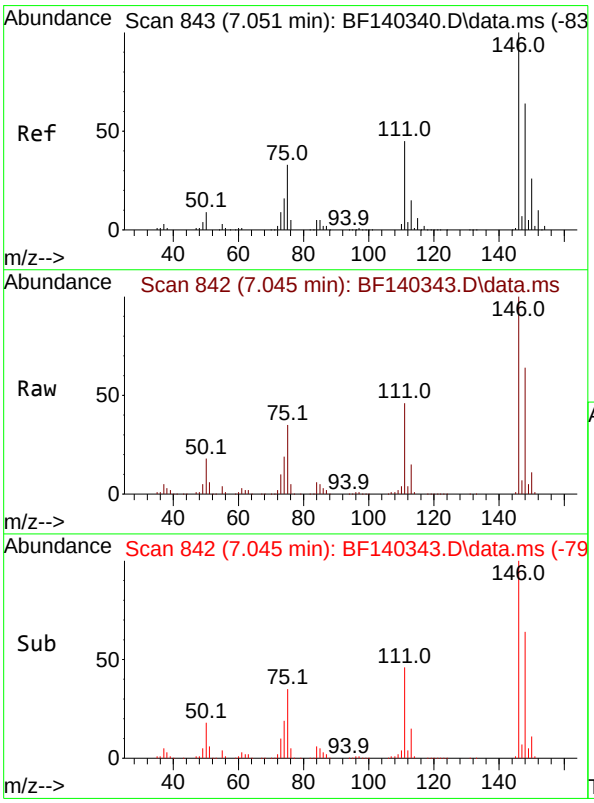
#13
1,4-Dichlorobenzene
Concen: 133.473 ng
RT: 6.898 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:146 Resp: 1014991

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.8	76.2
111	44.5	34.2	51.2

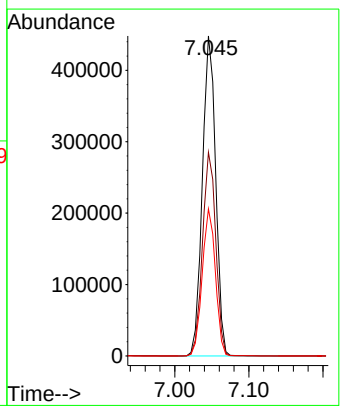


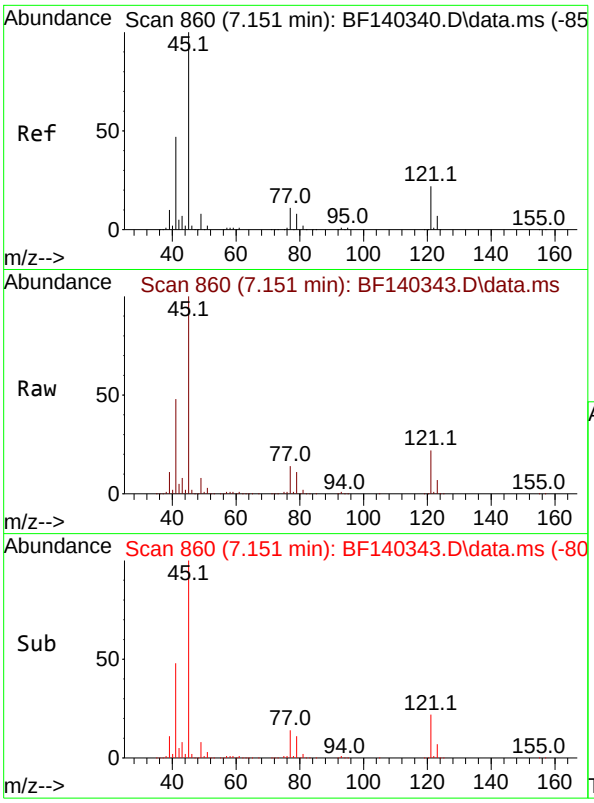


#14
1,2-Dichlorobenzene
Concen: 79.597 ng
RT: 7.045 min Scan# 842
Delta R.T. -0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:146 Resp: 561921

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.2	76.8
111	45.9	36.5	54.7



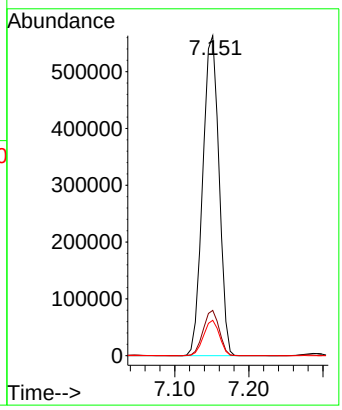


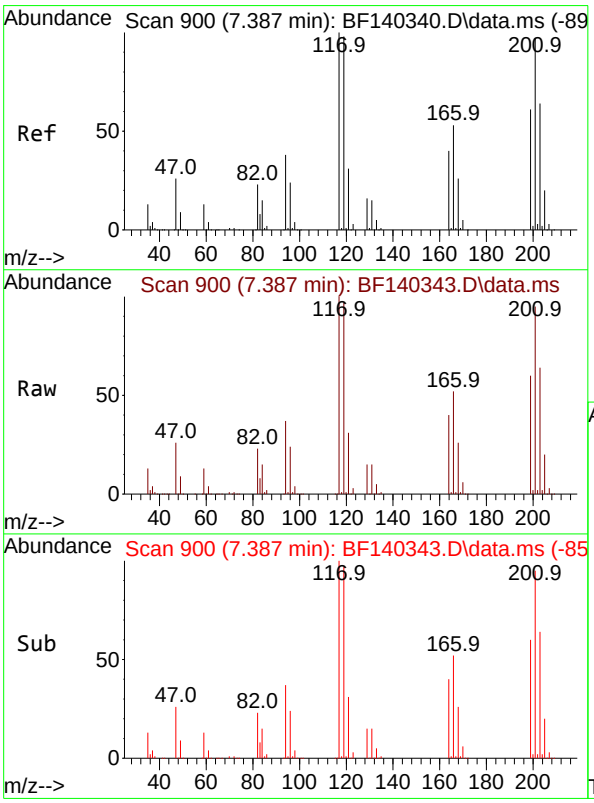
#16
2,2'-oxybis(1-Chloropropane)
Concen: 90.848 ng
RT: 7.151 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion: 45 Resp: 859620

Ion	Ratio	Lower	Upper
45	100		
77	14.1	0.0	34.8
79	11.1	0.0	31.4

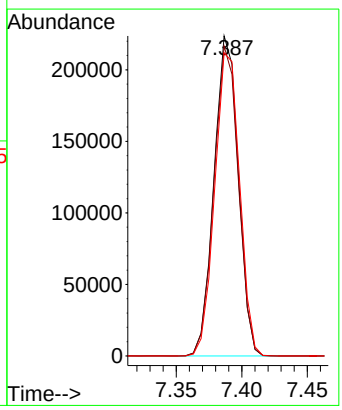


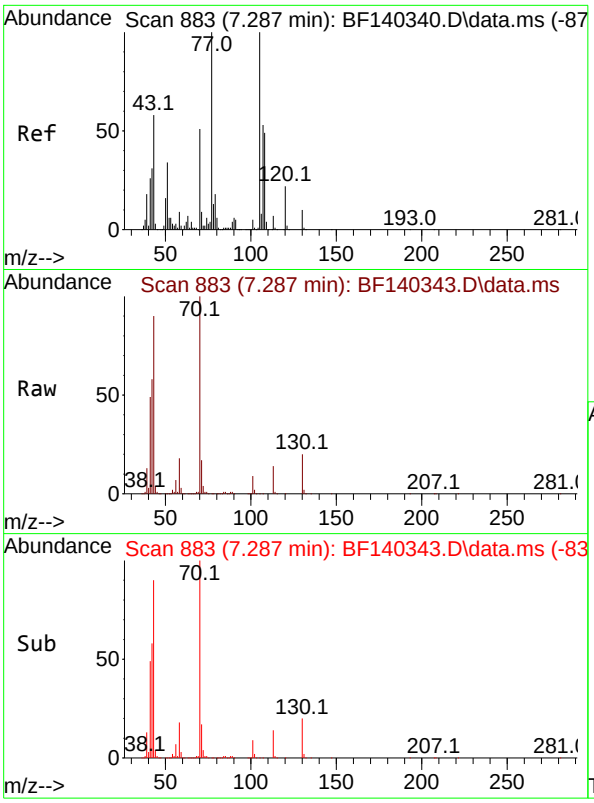


#18
Hexachloroethane
Concen: 102.288 ng
RT: 7.387 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:117 Resp: 287562

Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.9	115.3
201	94.7	80.2	120.4



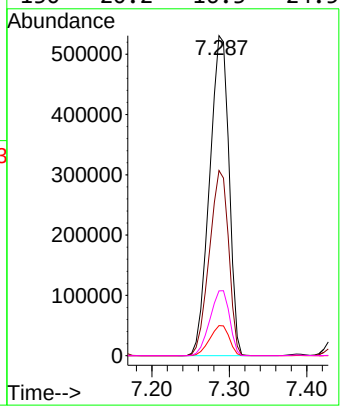


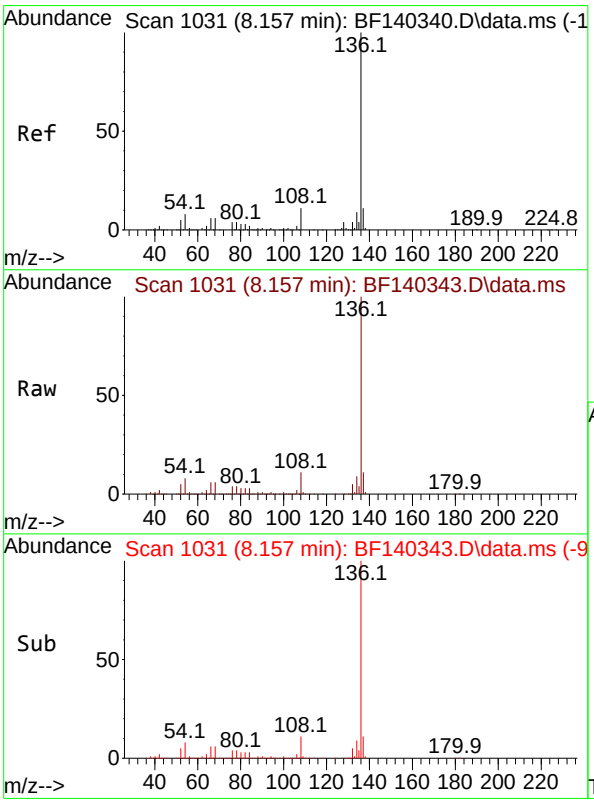
#19
n-Nitroso-di-n-propylamine
Concen: 178.119 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion: 70 Resp: 922263

Ion	Ratio	Lower	Upper
70	100		
42	57.8	46.8	70.2
101	9.4	7.5	11.3
130	20.2	16.3	24.5

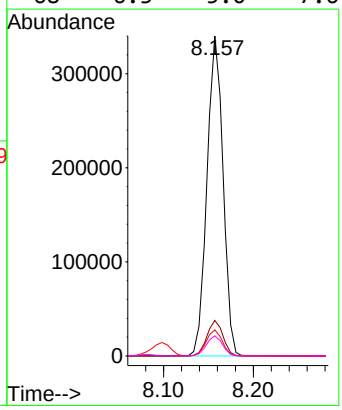


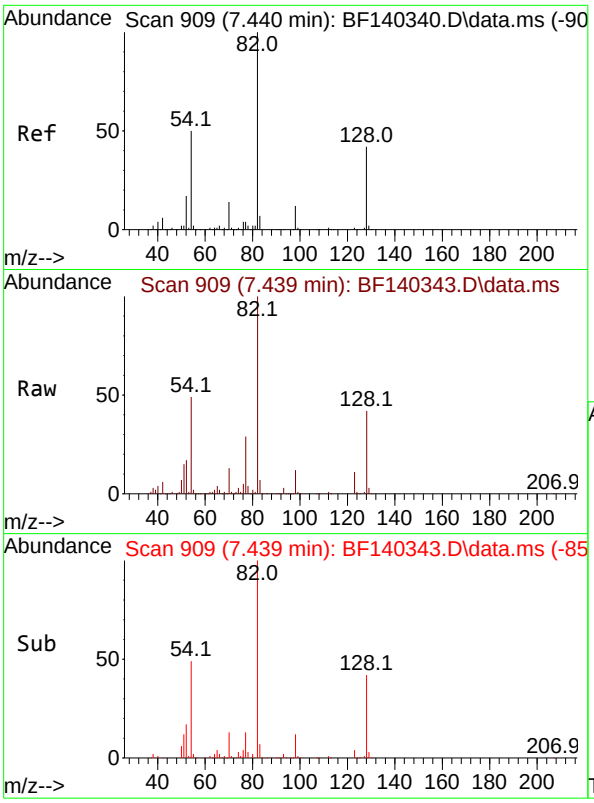


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:136 Resp: 422748

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	8.2	6.5	9.7
68	6.3	5.0	7.6



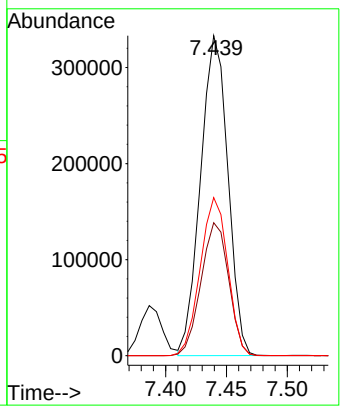


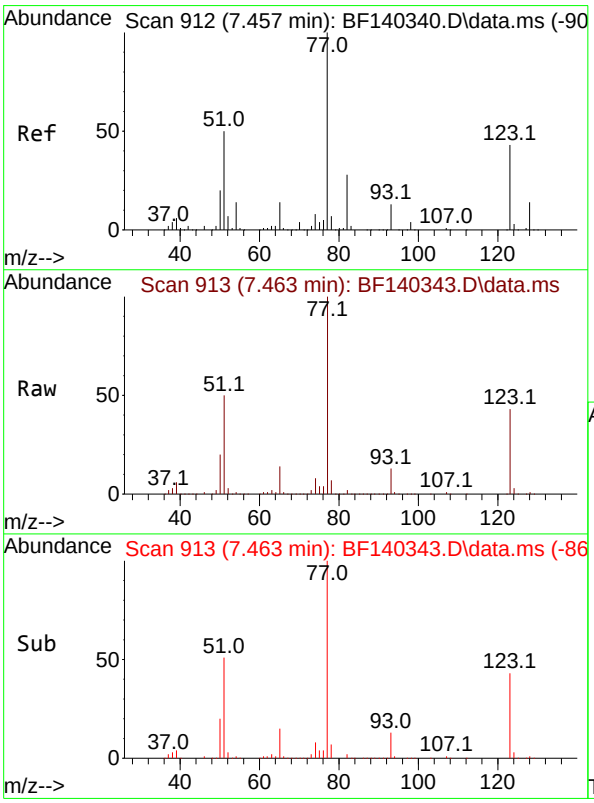
#23
Nitrobenzene-d5
Concen: 64.183 ng
RT: 7.439 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion: 82 Resp: 520767

Ion	Ratio	Lower	Upper
82	100		
128	41.5	33.3	49.9
54	49.4	39.8	59.8

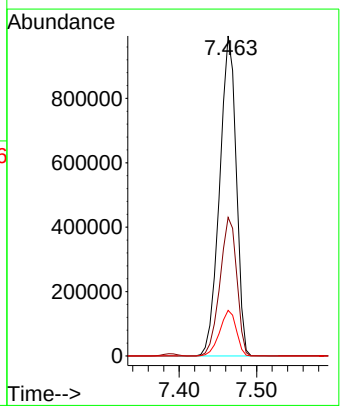


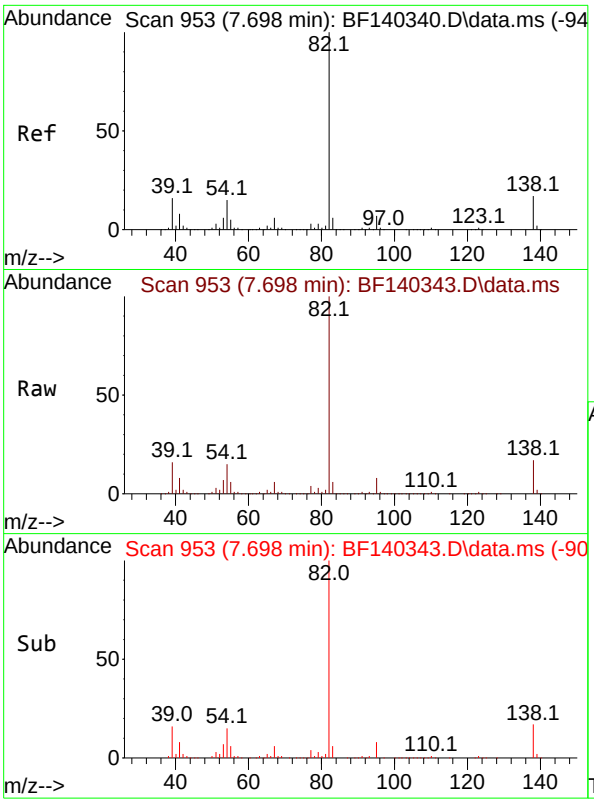


#24
Nitrobenzene
Concen: 175.578 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion: 77 Resp: 1483250

Ion	Ratio	Lower	Upper
77	100		
123	43.3	35.4	53.0
65	14.3	11.1	16.7



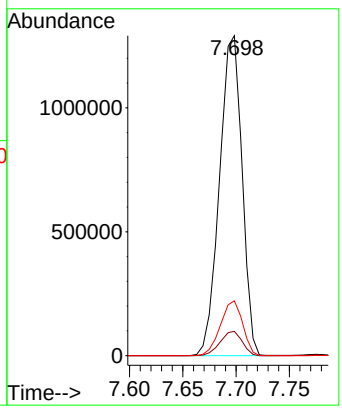


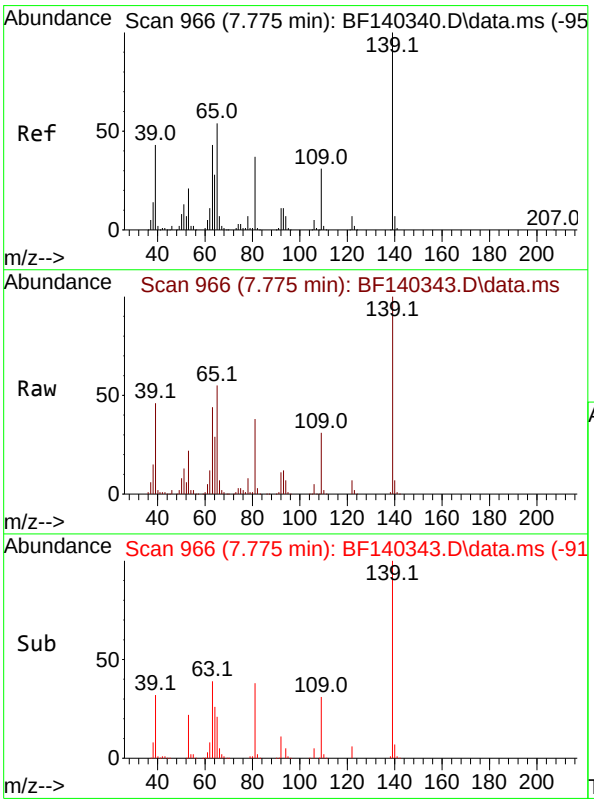
#25
Isophorone
Concen: 132.162 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion: 82 Resp: 1900488

Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.9	8.9
138	17.1	13.4	20.2

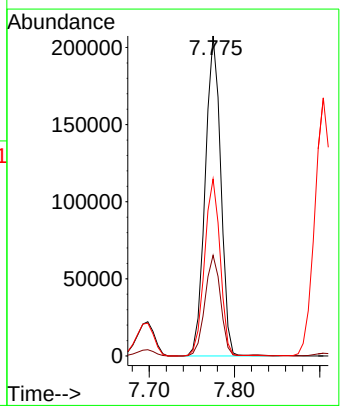


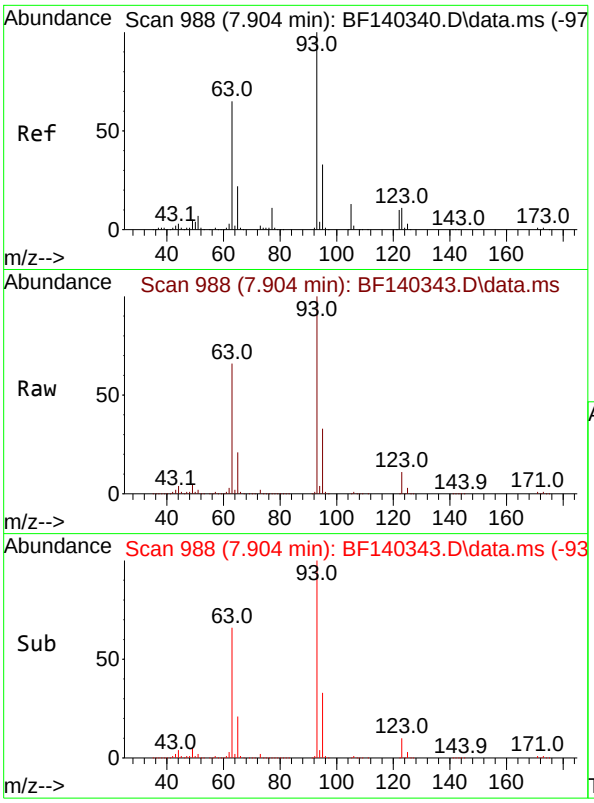


#26
2-Nitrophenol
Concen: 70.242 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:139 Resp: 263319

Ion	Ratio	Lower	Upper
139	100		
109	31.4	24.4	36.6
65	55.3	42.8	64.2



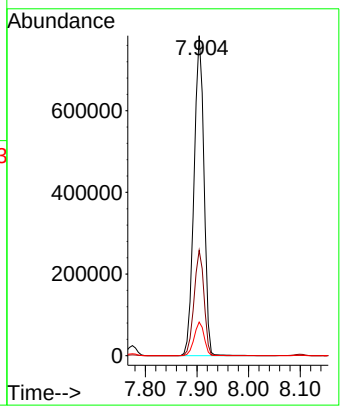


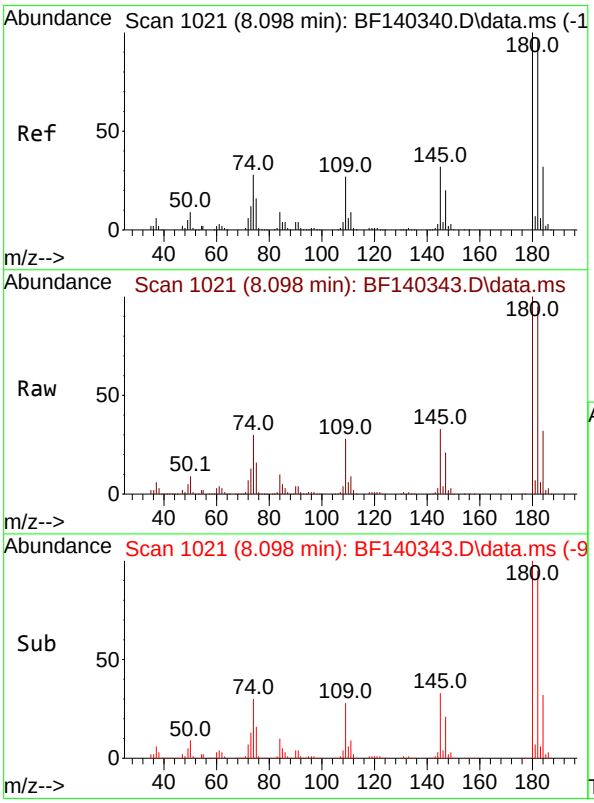
#28
bis(2-Chloroethoxy)methane
Concen: 119.355 ng
RT: 7.904 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion: 93 Resp: 1052408

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.9	38.9
123	10.5	9.2	13.8

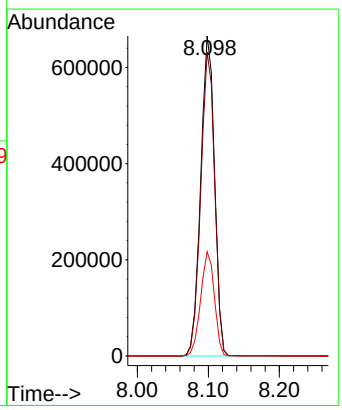


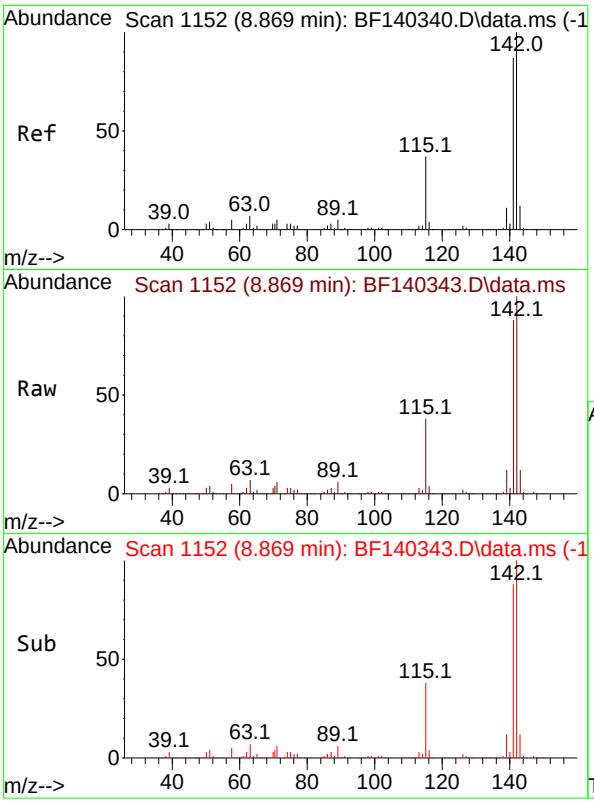


#30
1,2,4-Trichlorobenzene
Concen: 136.903 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:180 Resp: 904059

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.5	114.7
145	32.6	25.3	37.9



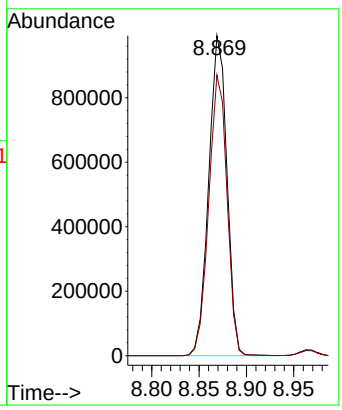


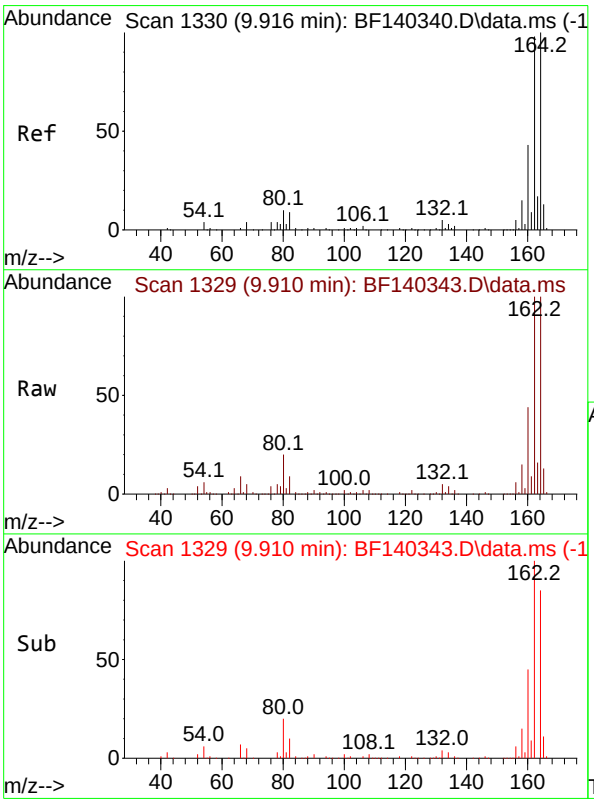
#37
2-Methylnaphthalene
Concen: 96.437 ng
RT: 8.869 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:142 Resp: 1326111

Ion	Ratio	Lower	Upper
142	100		
141	87.6	70.4	105.6

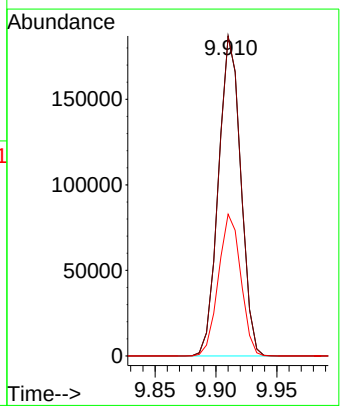


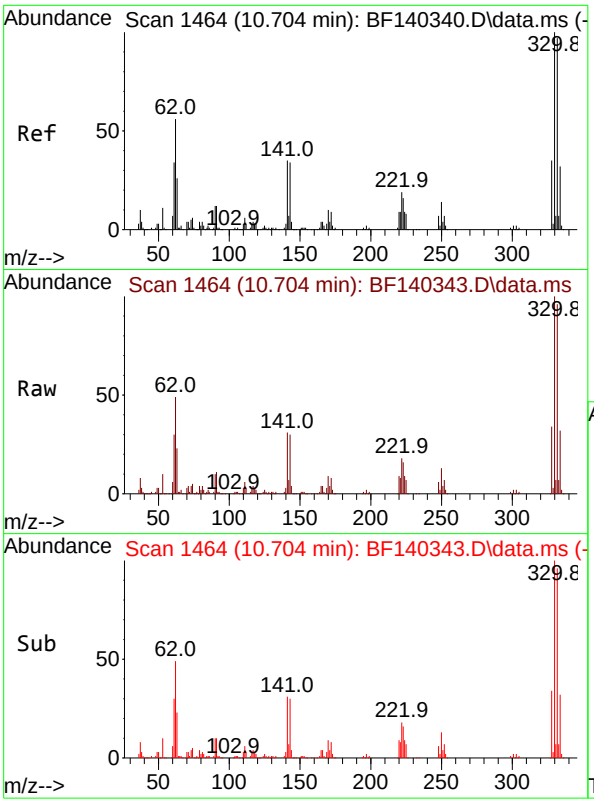


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:164 Resp: 238094

Ion	Ratio	Lower	Upper
164	100		
162	99.8	79.8	119.8
160	44.3	35.4	53.0



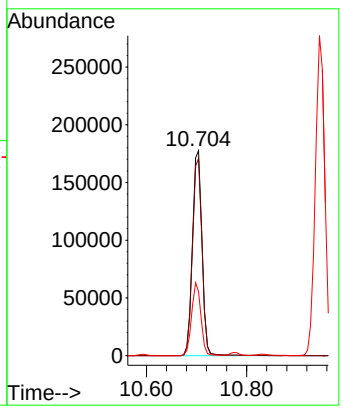


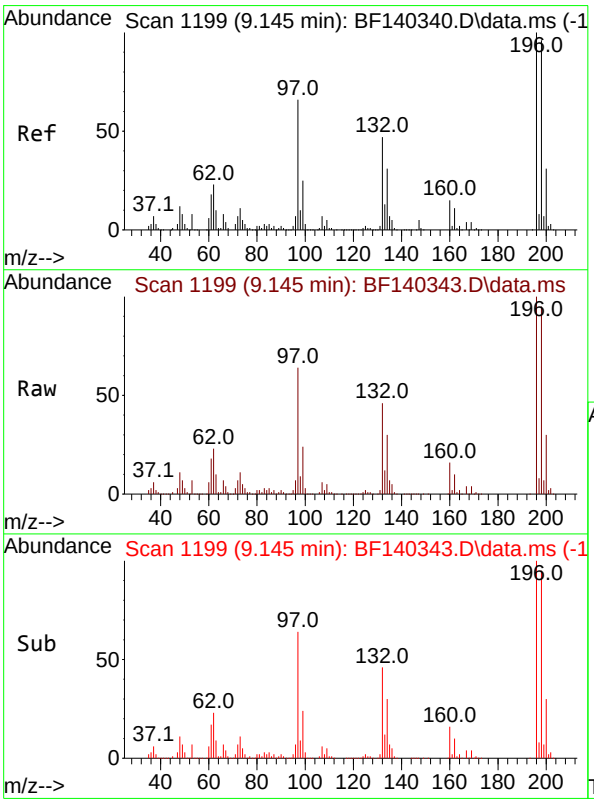
#42
2,4,6-Tribromophenol
Concen: 99.161 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:330 Resp: 234780

Ion	Ratio	Lower	Upper
330	100		
332	96.0	75.9	113.9
141	34.5	26.9	40.3

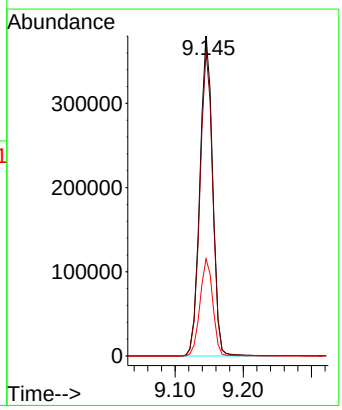


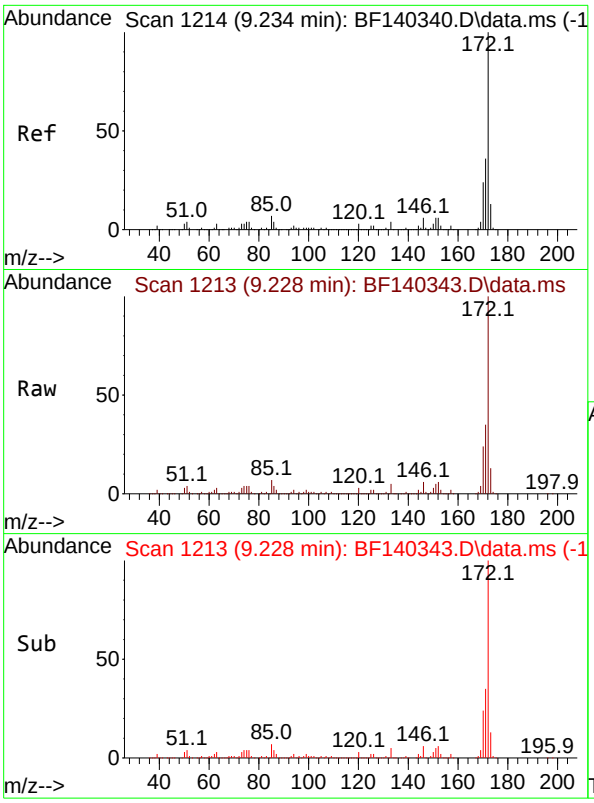


#43
2,4,6-Trichlorophenol
Concen: 114.397 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:196 Resp: 494298

Ion	Ratio	Lower	Upper
196	100		
198	95.4	77.0	115.4
200	30.3	24.2	36.4



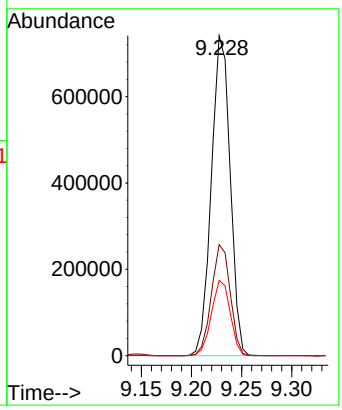


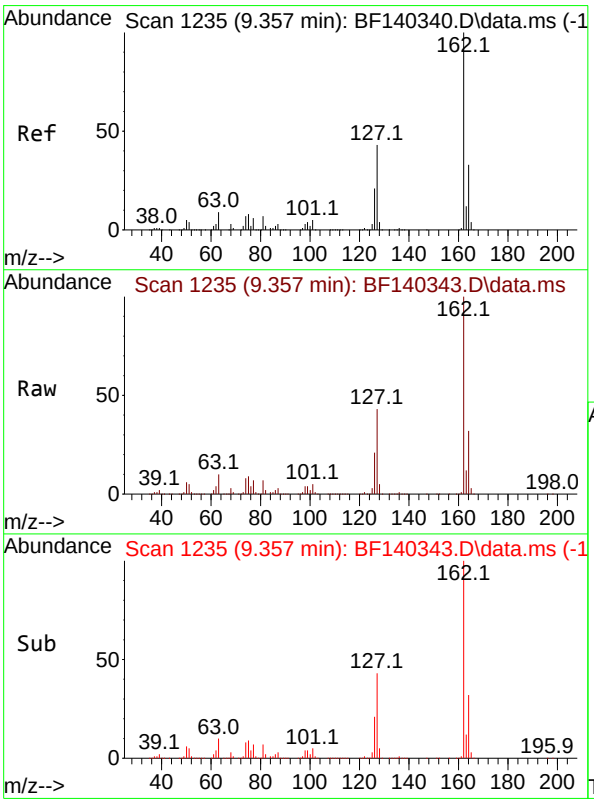
#45
2-Fluorobiphenyl
Concen: 65.296 ng
RT: 9.228 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:172 Resp: 967105

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.5	42.7
170	23.6	19.1	28.7

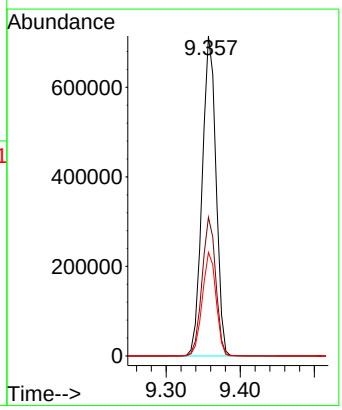


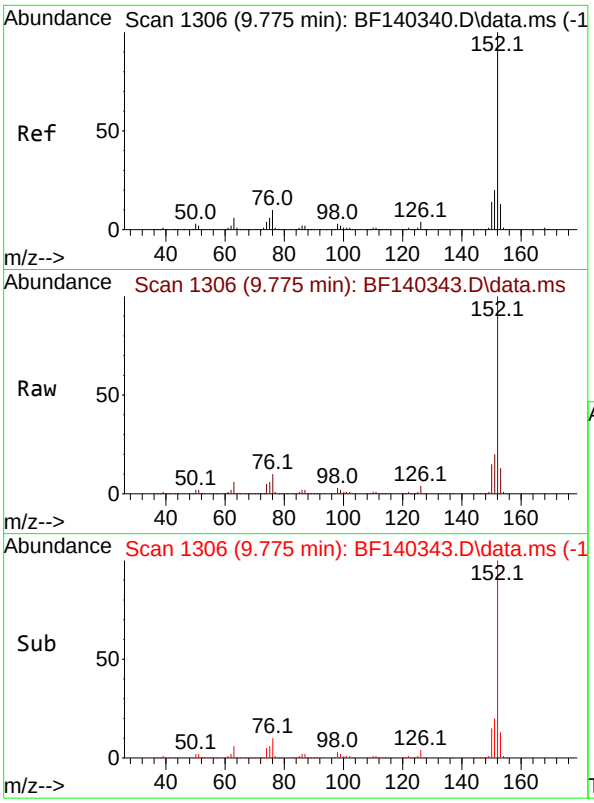


#47
2-Chloronaphthalene
Concen: 70.058 ng
RT: 9.357 min Scan# 1235
Delta R.T. -0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:162 Resp: 924392

Ion	Ratio	Lower	Upper
162	100		
127	43.4	34.0	51.0
164	32.4	26.5	39.7



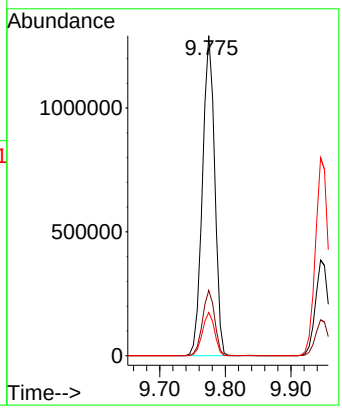


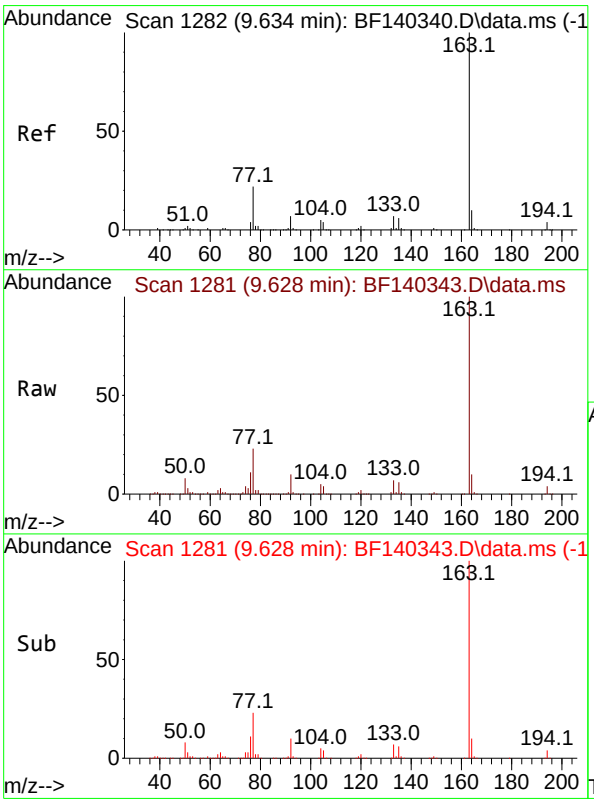
#49
Acenaphthylene
Concen: 84.127 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:152 Resp: 1679459

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.1	24.1
153	13.5	10.7	16.1

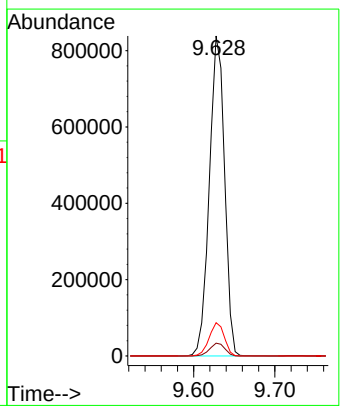


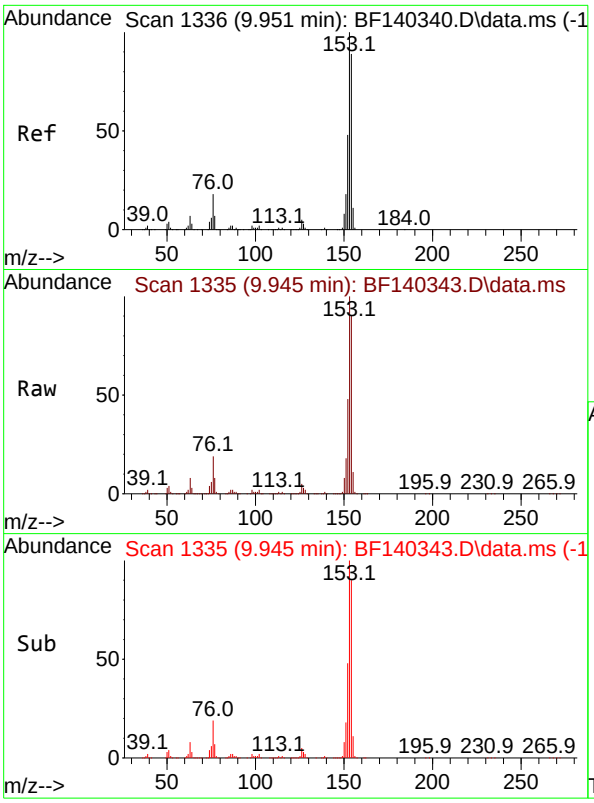


#50
Dimethylphthalate
Concen: 70.281 ng
RT: 9.628 min Scan# 1281
Delta R.T. -0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:163 Resp: 1090706

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.4	8.2	12.4



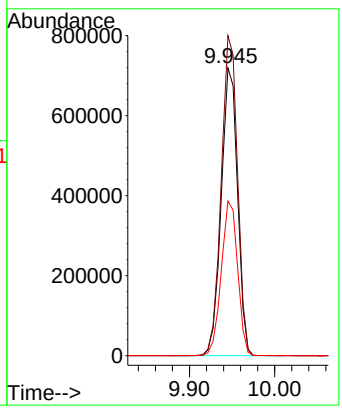


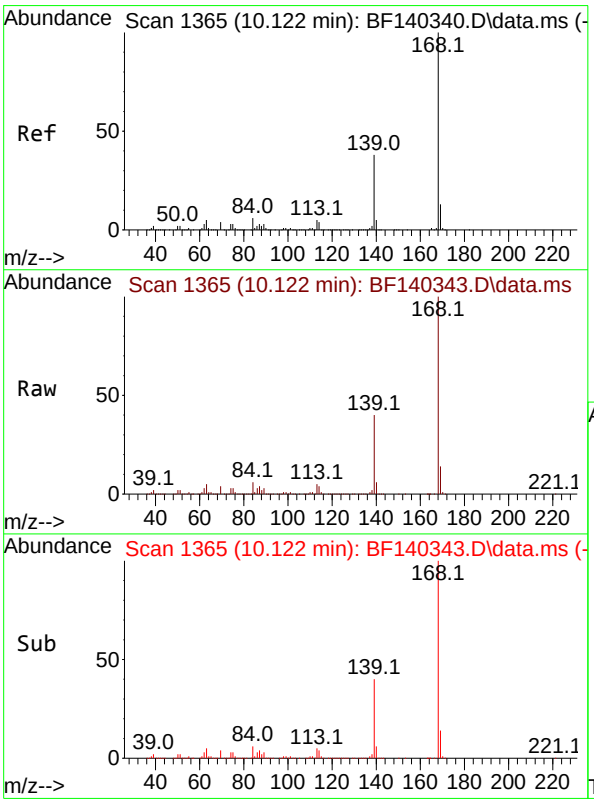
#52
Acenaphthene
Concen: 70.912 ng
RT: 9.945 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:154 Resp: 956155

Ion	Ratio	Lower	Upper
154	100		
153	111.3	89.8	134.8
152	53.8	42.6	64.0

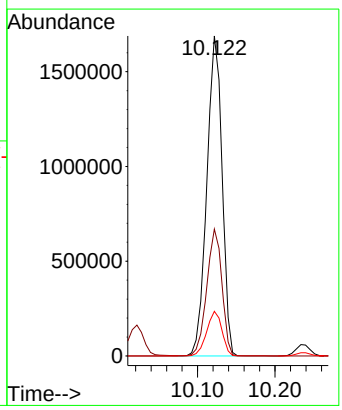


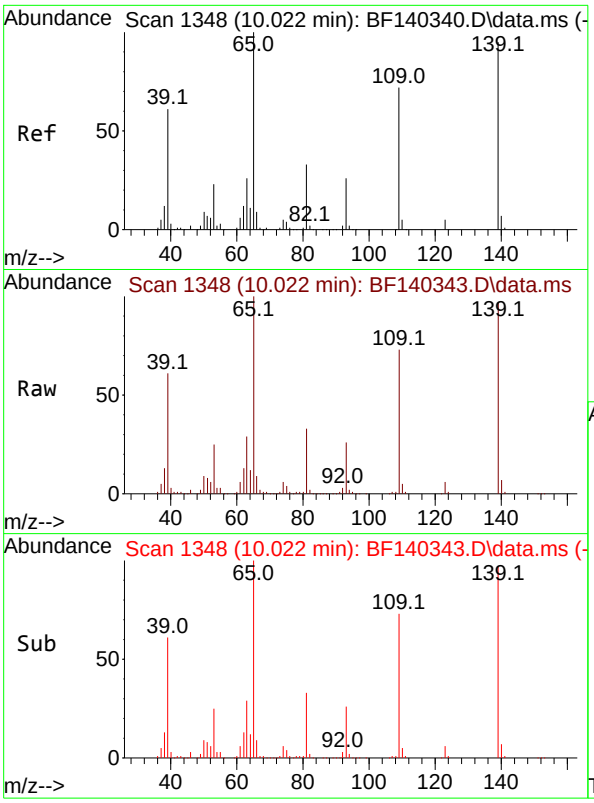


#55
Dibenzofuran
Concen: 120.981 ng
RT: 10.122 min Scan# 1365
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:168 Resp: 2309277

Ion	Ratio	Lower	Upper
168	100		
139	39.6	30.8	46.2
169	14.0	10.8	16.2



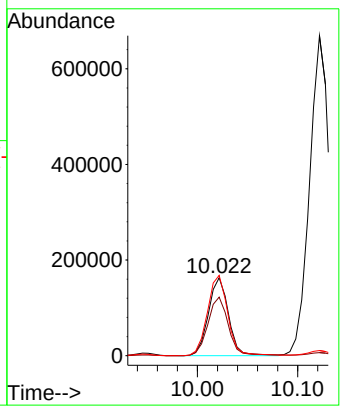


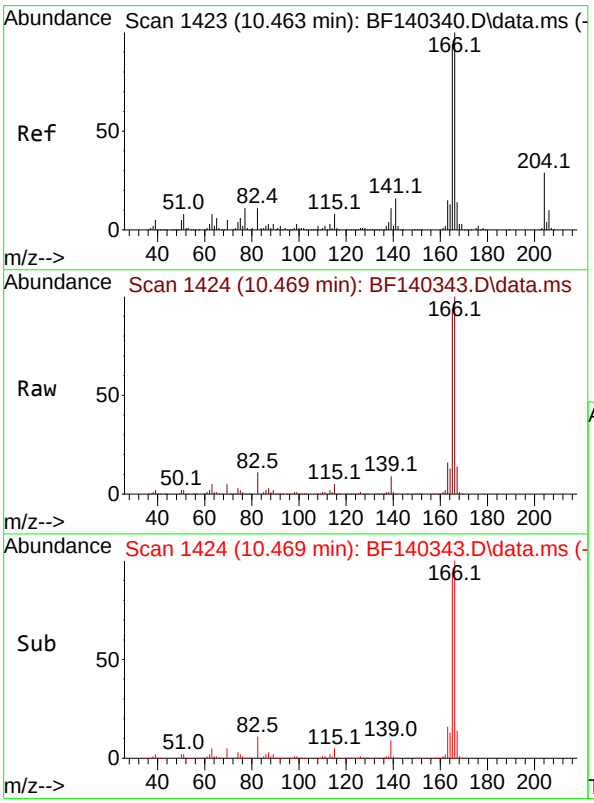
#56
4-Nitrophenol
Concen: 83.748 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:139 Resp: 226972

Ion	Ratio	Lower	Upper
139	100		
109	75.1	54.5	94.5
65	103.1	84.4	124.4

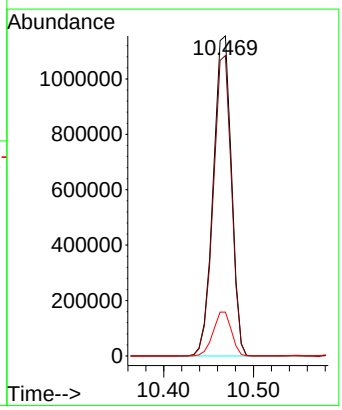


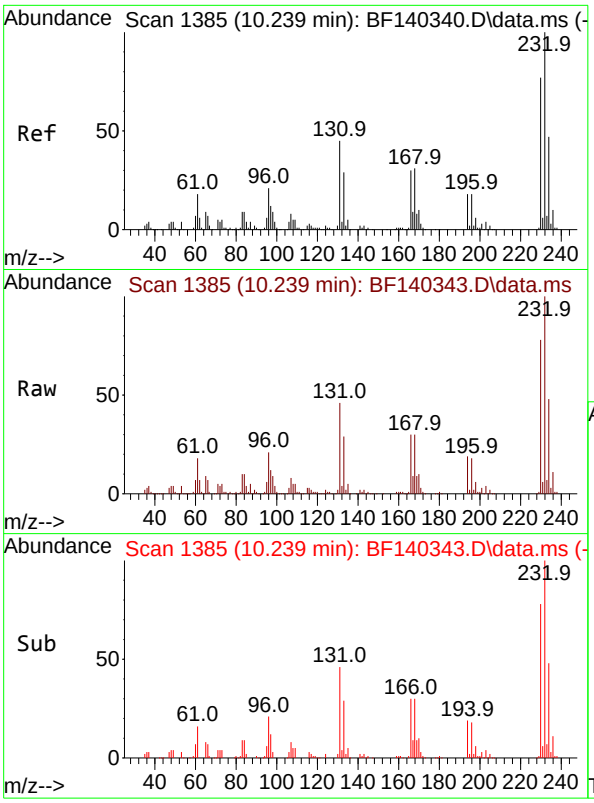


#58
Fluorene
Concen: 107.884 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:166 Resp: 1626805

Ion	Ratio	Lower	Upper
166	100		
165	93.8	73.9	110.9
167	13.7	10.9	16.3



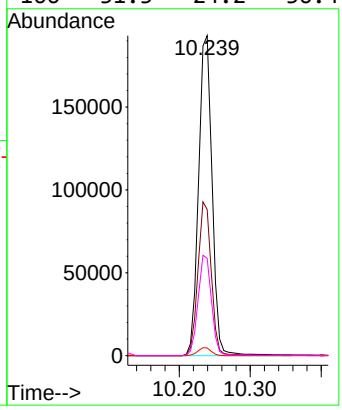


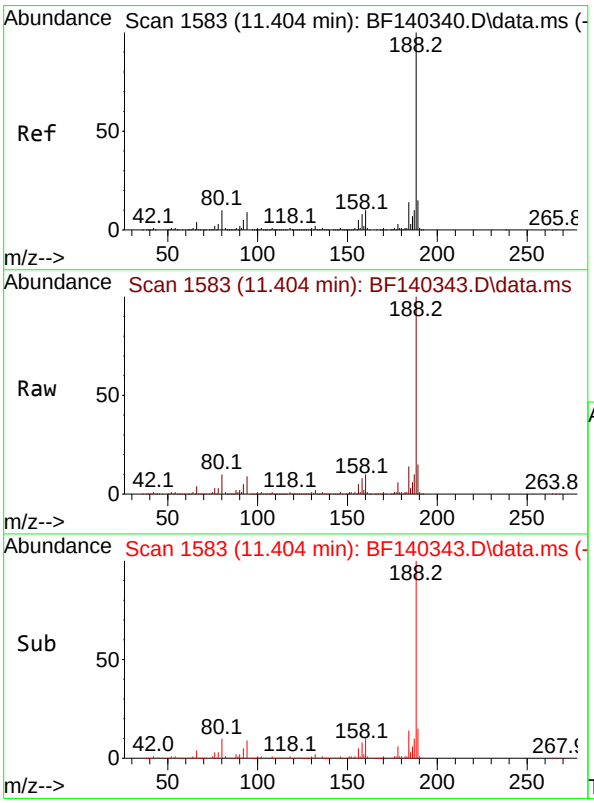
#59
2,3,4,6-Tetrachlorophenol
Concen: 68.835 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:232 Resp: 256761

Ion	Ratio	Lower	Upper
232	100		
131	47.7	36.8	55.2
130	2.5	1.9	2.9
166	31.3	24.2	36.4

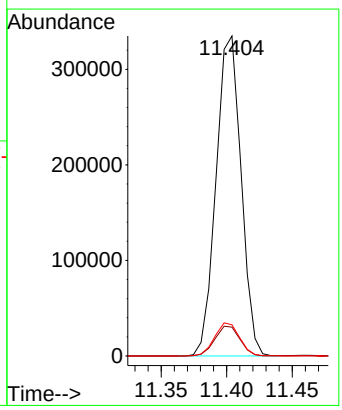


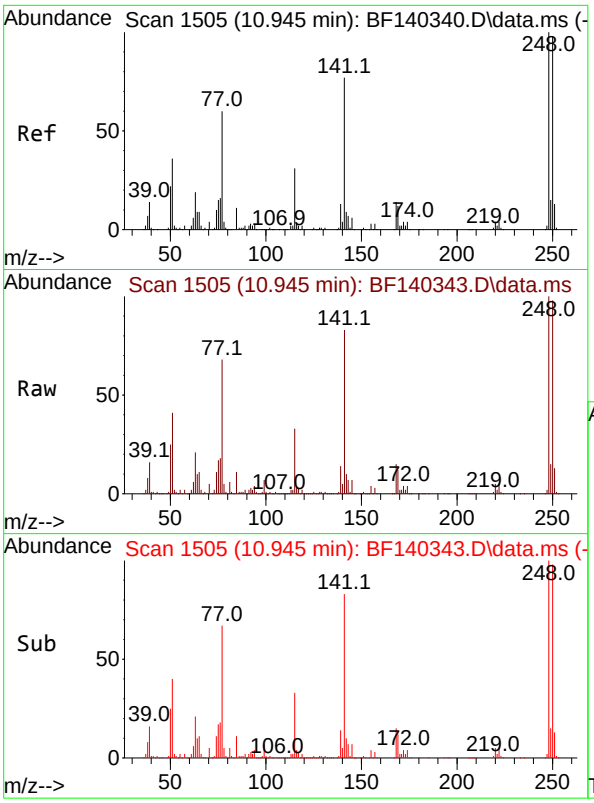


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:188 Resp: 444526

Ion	Ratio	Lower	Upper
188	100		
94	9.0	7.6	11.4
80	9.7	8.0	12.0



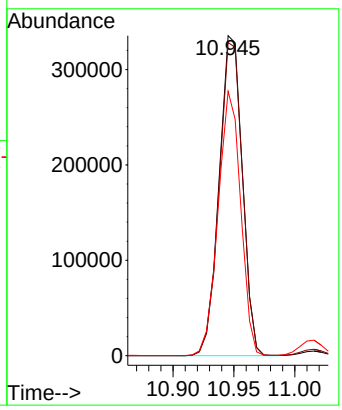


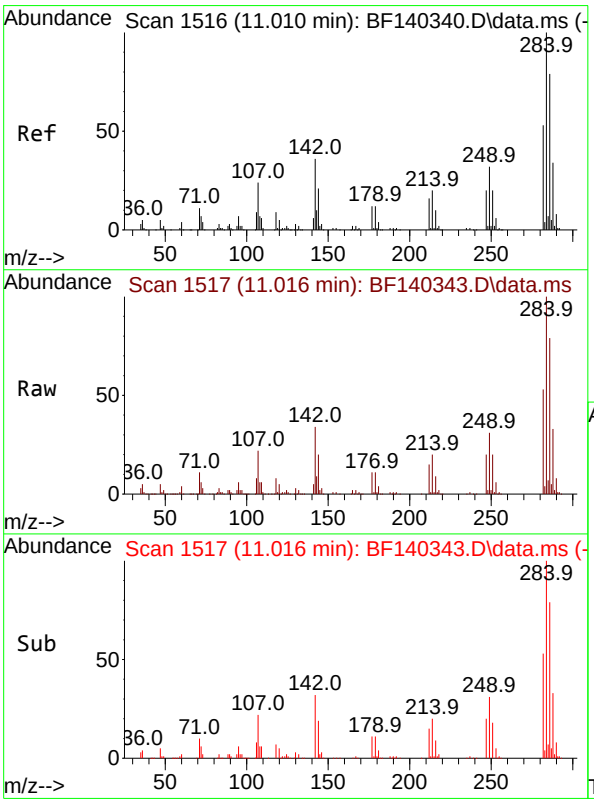
#67
4-Bromophenyl-phenylether
Concen: 100.380 ng
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:248 Resp: 446043

Ion	Ratio	Lower	Upper
248	100		
250	97.9	77.9	116.9
141	82.6	61.8	92.6

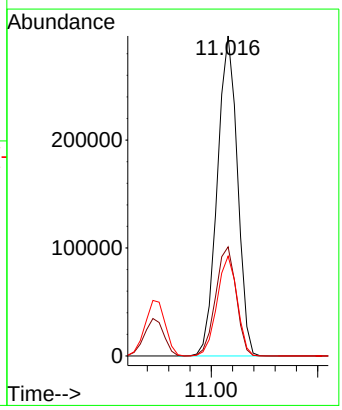


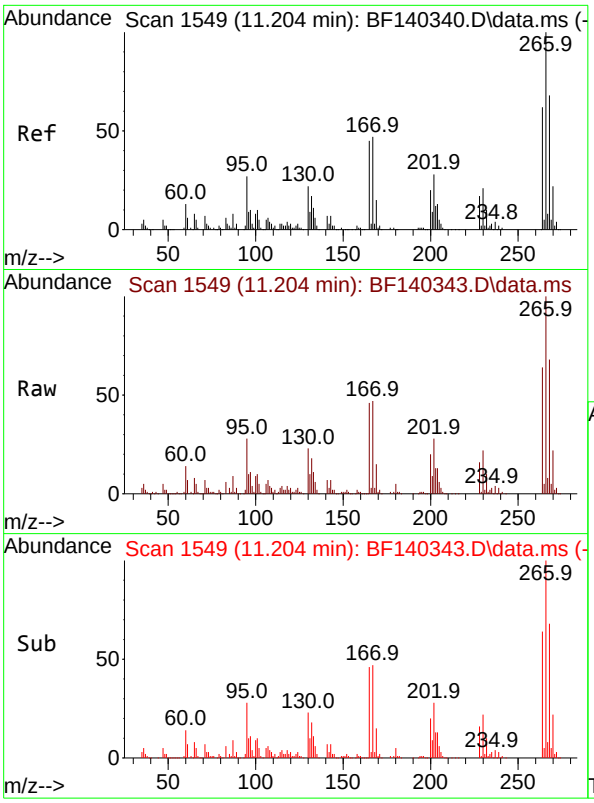


#68
Hexachlorobenzene
Concen: 77.774 ng
RT: 11.016 min Scan# 1517
Delta R.T. 0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:284 Resp: 388838

Ion	Ratio	Lower	Upper
284	100		
142	34.1	28.1	42.1
249	31.2	24.9	37.3



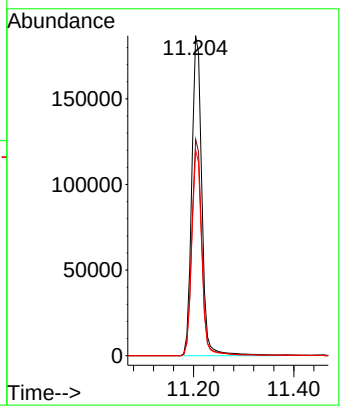


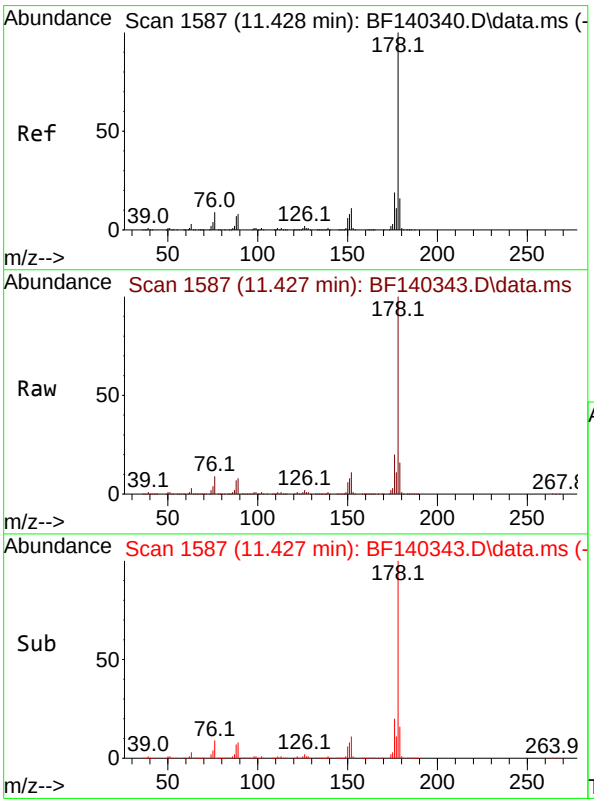
#70
Pentachlorophenol
Concen: 96.621 ng
RT: 11.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:266 Resp: 260213

Ion	Ratio	Lower	Upper
266	100		
268	67.6	52.9	79.3
264	64.3	50.3	75.5

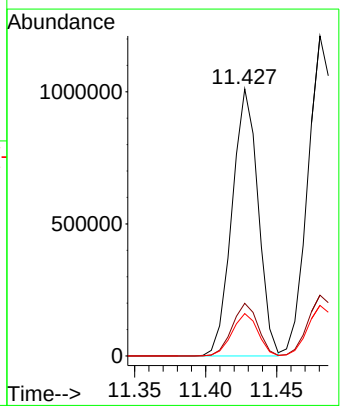


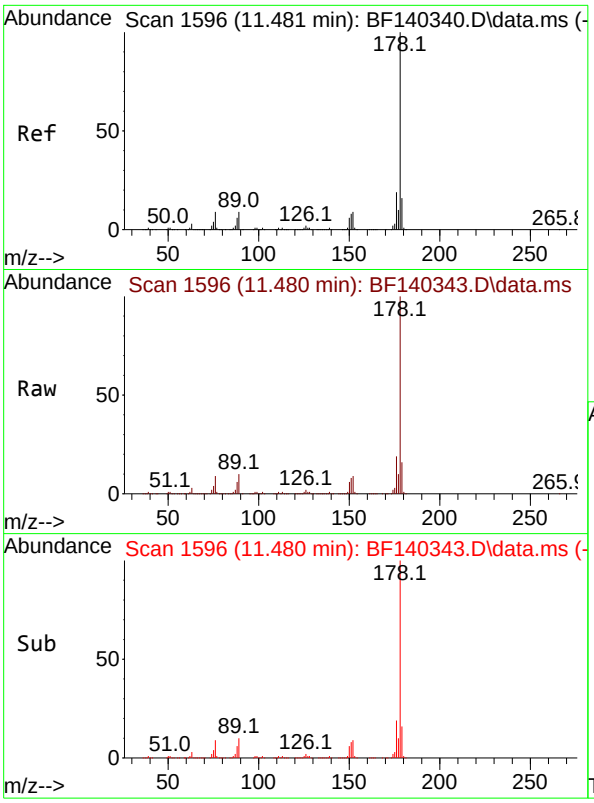


#71
Phenanthrene
Concen: 61.723 ng
RT: 11.427 min Scan# 1587
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:178 Resp: 1288889

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.5	23.3
179	15.9	12.4	18.6



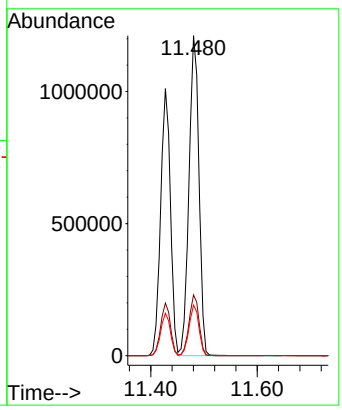


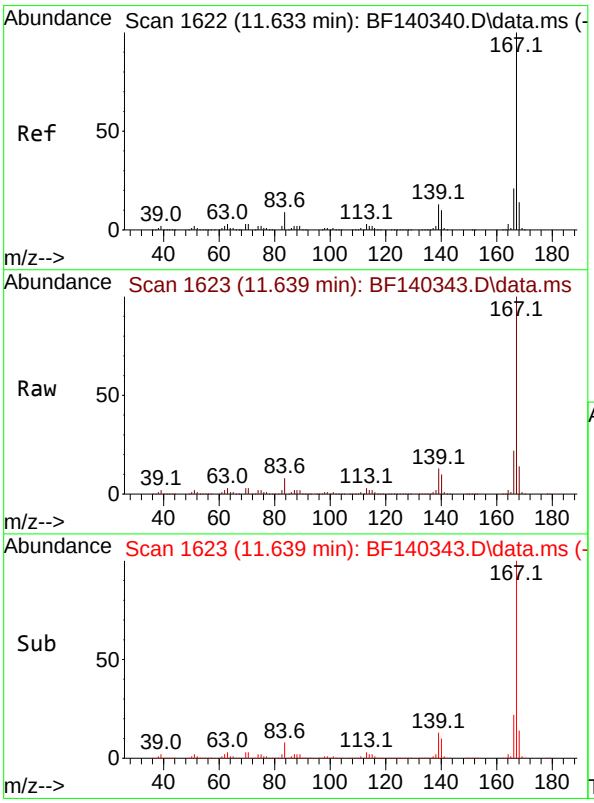
#72
Anthracene
Concen: 76.977 ng
RT: 11.480 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:178 Resp: 1575371

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.8	12.6	18.8

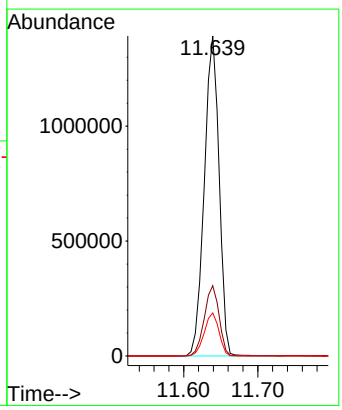


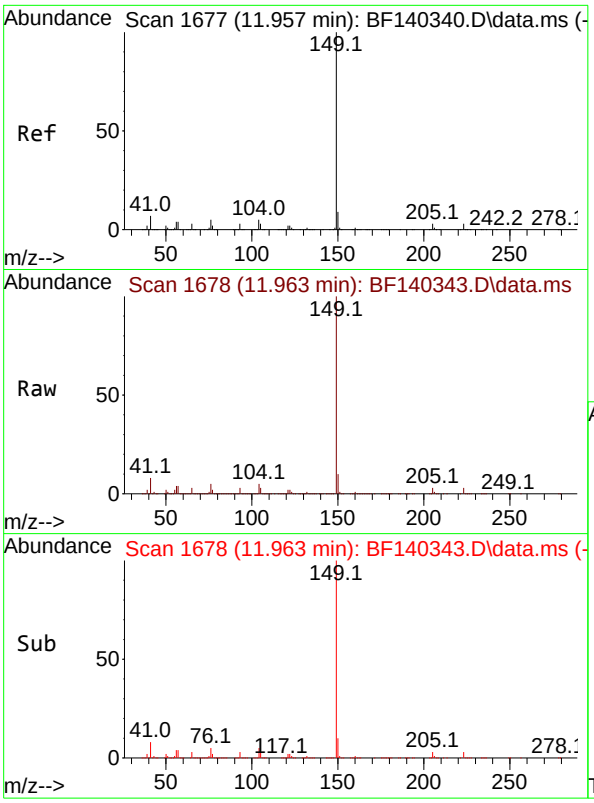


#73
Carbazole
Concen: 95.599 ng
RT: 11.639 min Scan# 1623
Delta R.T. 0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:167 Resp: 1931830

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.2	25.8
139	13.5	10.4	15.6



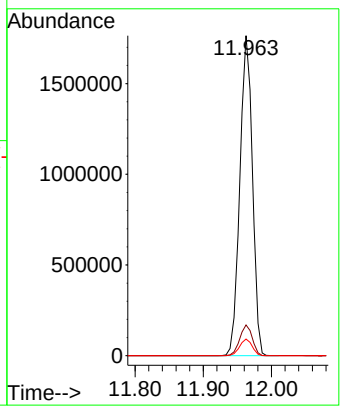


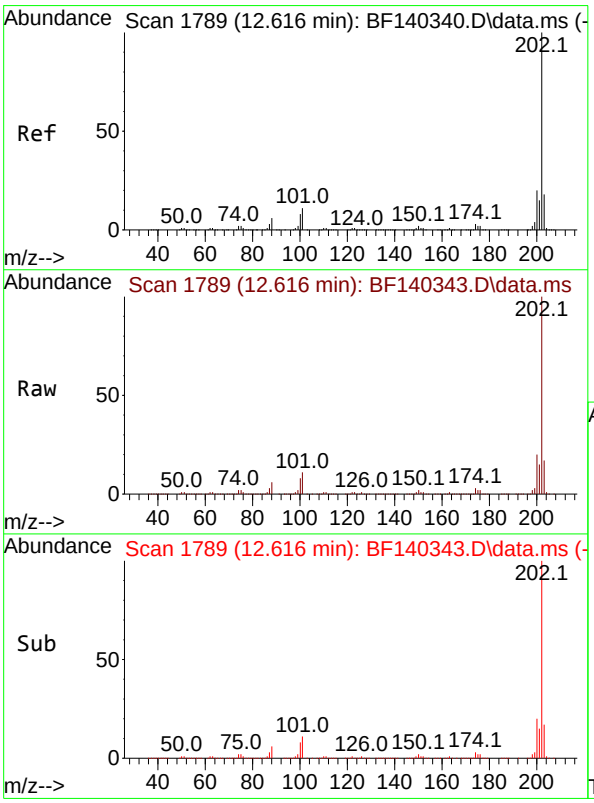
#74
Di-n-butylphthalate
Concen: 93.353 ng
RT: 11.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:149 Resp: 2264149

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.4	11.2
104	5.2	4.0	6.0

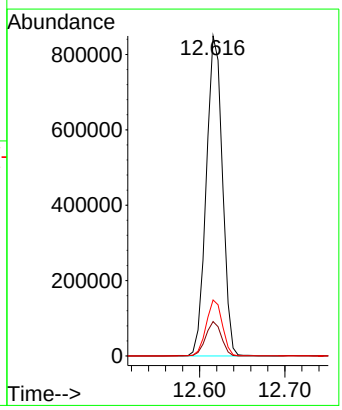


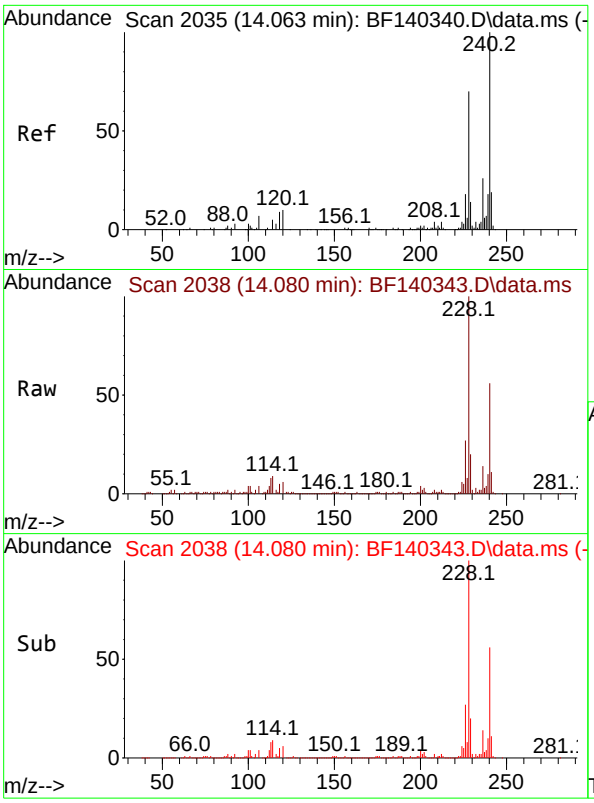


#75
Fluoranthene
Concen: 47.707 ng
RT: 12.616 min Scan# 1789
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:202 Resp: 1117672

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	30.7
203	17.5	0.0	37.7



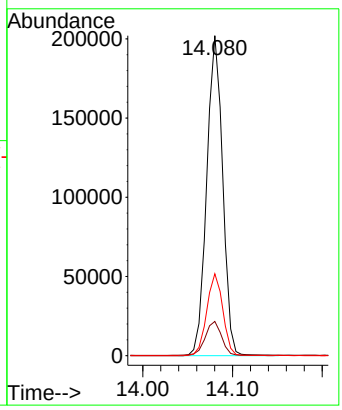


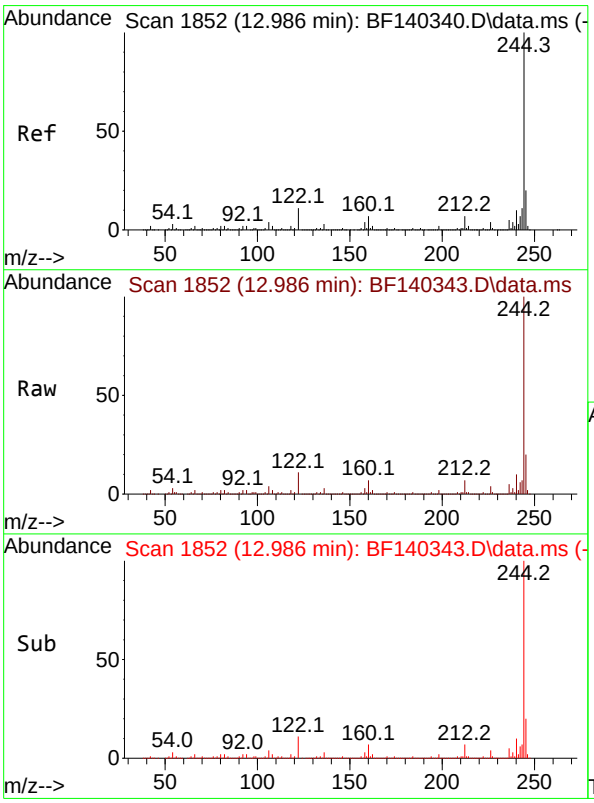
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:240 Resp: 249001

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.8	13.2
236	25.6	20.9	31.3

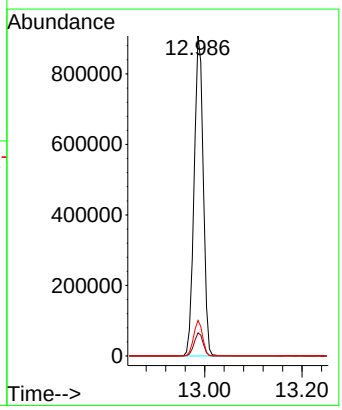


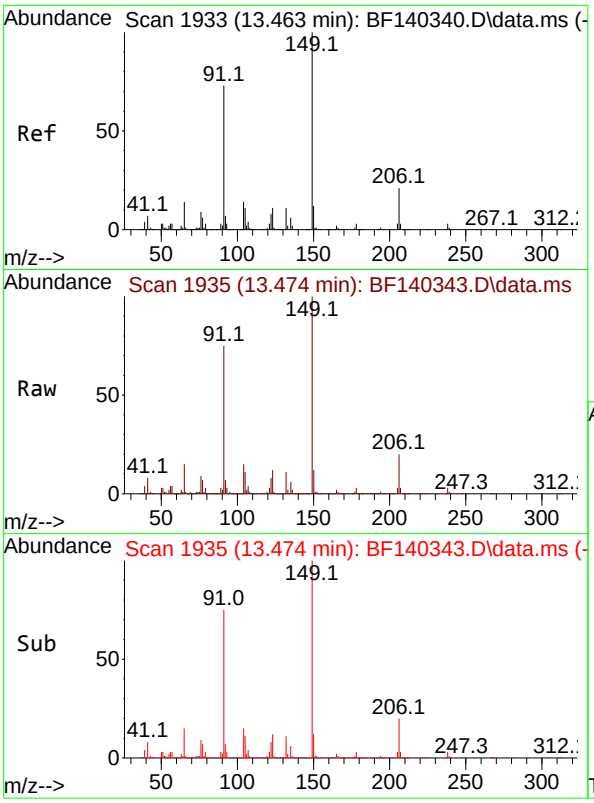


#79
Terphenyl-d14
Concen: 82.967 ng
RT: 12.986 min Scan# 1852
Delta R.T. -0.000 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:244 Resp: 1190175

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	11.1	8.8	13.2



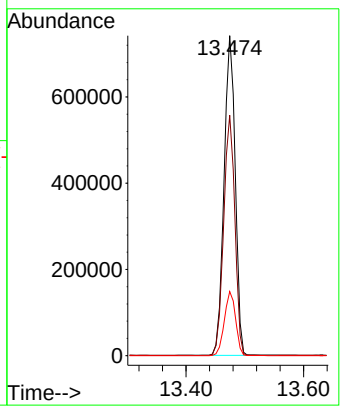


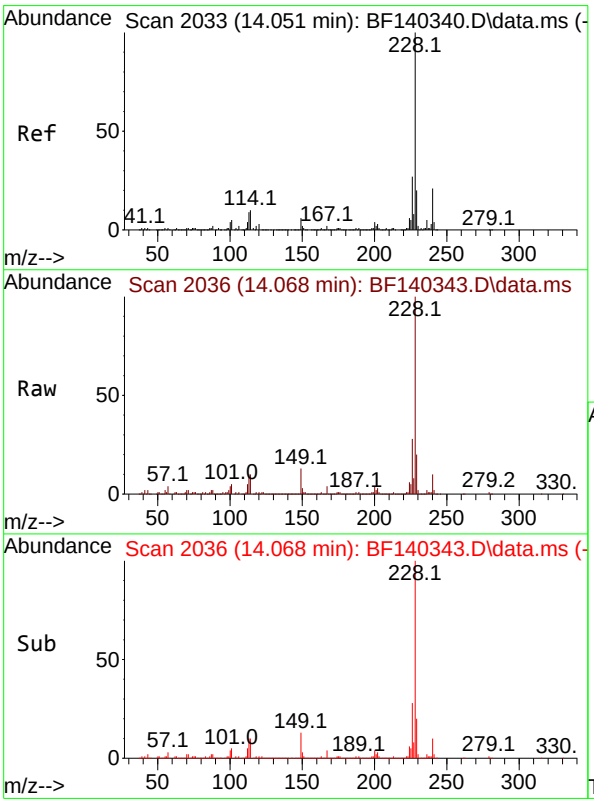
#80
Butylbenzylphthalate
Concen: 119.626 ng
RT: 13.474 min Scan# 1
Delta R.T. 0.018 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:149 Resp: 978772

Ion	Ratio	Lower	Upper
149	100		
91	75.2	61.0	91.4
206	20.1	16.1	24.1

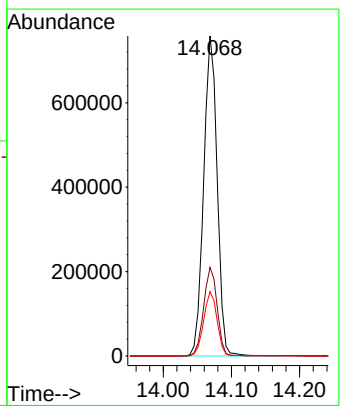


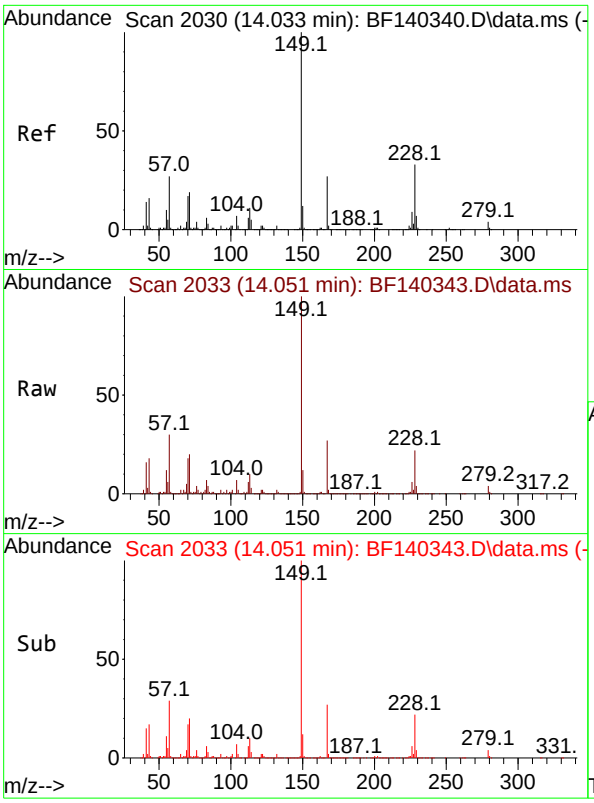


#81
Benzo(a)anthracene
Concen: 63.895 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.029 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:228 Resp: 1045637

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	20.1	15.8	23.6



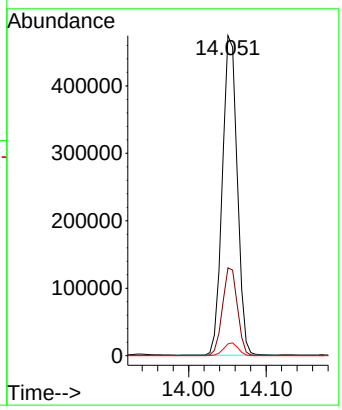


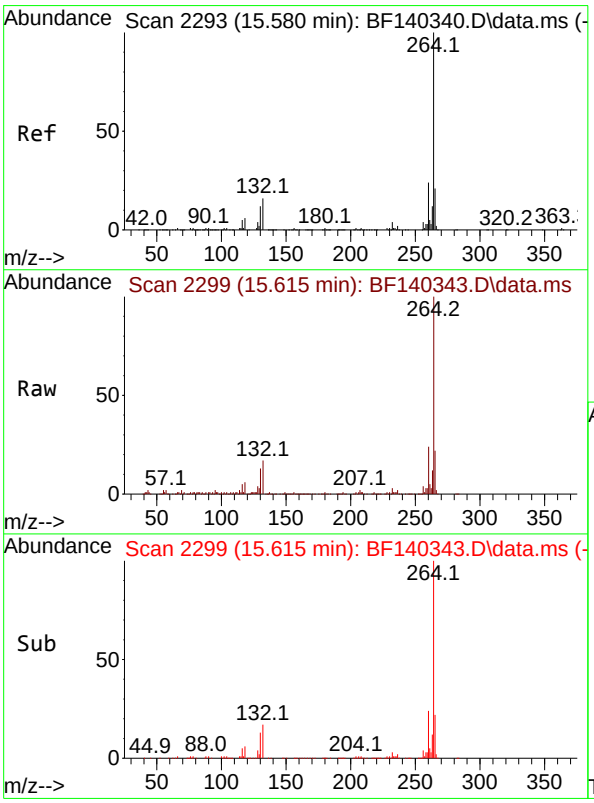
#84
Bis(2-ethylhexyl)phthalate
Concen: 58.075 ng
RT: 14.051 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:149 Resp: 634241

Ion	Ratio	Lower	Upper
149	100		
167	27.5	21.4	32.0
279	3.7	3.0	4.6

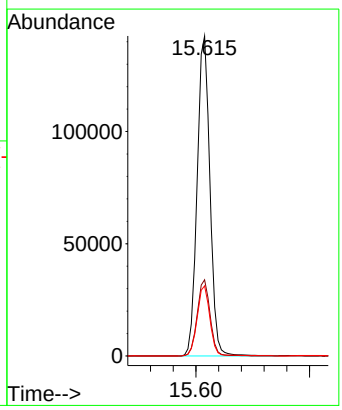


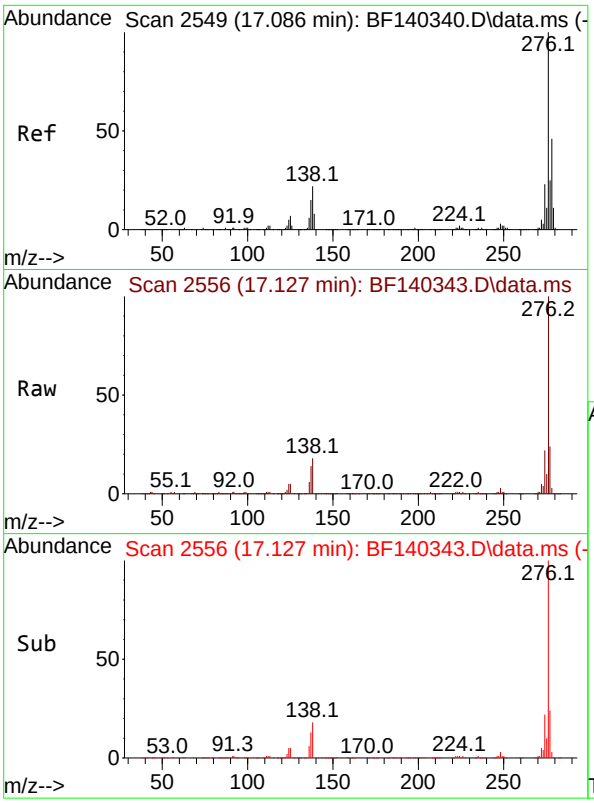


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.615 min Scan# 2299
Delta R.T. 0.059 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Tgt Ion:264 Resp: 223254

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	21.9	17.1	25.7



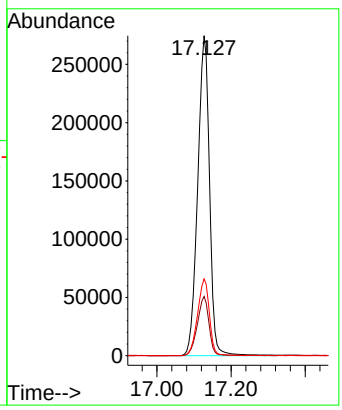


#87
Indeno(1,2,3-cd)pyrene
Concen: 44.028 ng
RT: 17.127 min Scan# 2
Delta R.T. 0.071 min
Lab File: BF140343.D
Acq: 13 Nov 2024 15:25

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:276 Resp: 607196

Ion	Ratio	Lower	Upper
276	100		
138	17.9	18.8	28.2#
277	24.0	20.2	30.2



Raw Data: **BF140344.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	430	UD	430	1600	ug/Kg
110-86-1	Pyridine	400	UD	400	850	ug/Kg
100-52-7	Benzaldehyde	910	UD	910	1600	ug/Kg
62-53-3	Aniline	480	UD	480	850	ug/Kg
108-95-2	Phenol	410	UD	410	850	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	5600	D	420	850	ug/Kg
95-57-8	2-Chlorophenol	1900	D	420	850	ug/Kg
95-50-1	1,2-Dichlorobenzene	2600	D	420	850	ug/Kg
541-73-1	1,3-Dichlorobenzene	3900	D	430	850	ug/Kg
106-46-7	1,4-Dichlorobenzene	4700	D	430	850	ug/Kg
100-51-6	Benzyl Alcohol	410	UD	410	1600	ug/Kg
95-48-7	2-Methylphenol	400	UD	400	850	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2800	D	450	850	ug/Kg
98-86-2	Acetophenone	430	UD	430	850	ug/Kg
65794-96-9	3+4-Methylphenols	400	UD	400	1600	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	5700	D	200	400	ug/Kg
67-72-1	Hexachloroethane	3300	D	410	850	ug/Kg
98-95-3	Nitrobenzene	5700	D	450	850	ug/Kg
78-59-1	Isophorone	4300	D	420	850	ug/Kg
88-75-5	2-Nitrophenol	2100	D	470	850	ug/Kg
105-67-9	2,4-Dimethylphenol	460	UD	460	850	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	3800	D	430	850	ug/Kg
120-83-2	2,4-Dichlorophenol	380	UD	380	850	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4700	D	430	850	ug/Kg
65-85-0	Benzoic acid	1200	UD	1200	1600	ug/Kg
91-20-3	Naphthalene	410	UD	410	850	ug/Kg
106-47-8	4-Chloroaniline	410	UD	410	850	ug/Kg
87-68-3	Hexachlorobutadiene	420	UD	420	850	ug/Kg
105-60-2	Caprolactam	430	UD	430	1600	ug/Kg

Raw Data: **BF140344.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	390	UD	390	850	ug/Kg
91-57-6	2-Methylnaphthalene	3400	D	410	850	ug/Kg
77-47-4	Hexachlorocyclopentadiene	780	UD	780	1600	ug/Kg
88-06-2	2,4,6-Trichlorophenol	3800	D	360	850	ug/Kg
95-95-4	2,4,5-Trichlorophenol	370	UD	370	850	ug/Kg
92-52-4	1,1-Biphenyl	440	UD	440	850	ug/Kg
91-58-7	2-Chloronaphthalene	2300	D	420	850	ug/Kg
88-74-4	2-Nitroaniline	470	UD	470	850	ug/Kg
131-11-3	Dimethylphthalate	2400	D	410	850	ug/Kg
208-96-8	Acenaphthylene	2900	D	430	850	ug/Kg
606-20-2	2,6-Dinitrotoluene	420	UD	420	850	ug/Kg
99-09-2	3-Nitroaniline	440	UD	440	850	ug/Kg
83-32-9	Acenaphthene	2400	D	400	850	ug/Kg
51-28-5	2,4-Dinitrophenol	1200	UD	1200	1600	ug/Kg
100-02-7	4-Nitrophenol	2100	D	580	1600	ug/Kg
132-64-9	Dibenzofuran	4500	D	420	850	ug/Kg
121-14-2	2,4-Dinitrotoluene	430	UD	430	850	ug/Kg
84-66-2	Diethylphthalate	400	UD	400	850	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	430	UD	430	850	ug/Kg
86-73-7	Fluorene	3900	D	430	850	ug/Kg
100-01-6	4-Nitroaniline	530	UD	530	850	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	580	UDQ	580	1600	ug/Kg
86-30-6	n-Nitrosodiphenylamine	410	UD	410	850	ug/Kg
103-33-3	Azobenzene	400	UD	400	850	ug/Kg
101-55-3	4-Bromophenyl-phenylether	3500	D	390	850	ug/Kg
118-74-1	Hexachlorobenzene	2500	D	420	850	ug/Kg
1912-24-9	Atrazine	460	UD	460	850	ug/Kg
87-86-5	Pentachlorophenol	2400	D	390	1600	ug/Kg
85-01-8	Phenanthrene	2100	D	420	850	ug/Kg
120-12-7	Anthracene	2700	D	420	850	ug/Kg
86-74-8	Carbazole	3300	D	400	850	ug/Kg

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	3300	D	420	850	ug/Kg
206-44-0	Fluoranthene	1600	D	410	850	ug/Kg
92-87-5	Benzidine	810	UD	810	1600	ug/Kg
129-00-0	Pyrene	410	UD	410	850	ug/Kg
85-68-7	Butylbenzylphthalate	3800	D	480	850	ug/Kg
91-94-1	3,3-Dichlorobenzidine	490	UD	490	1600	ug/Kg
56-55-3	Benzo(a)anthracene	2000	D	400	850	ug/Kg
218-01-9	Chrysene	400	UD	400	850	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900	D	450	850	ug/Kg
117-84-0	Di-n-octyl phthalate	550	UD	550	1600	ug/Kg
205-99-2	Benzo(b)fluoranthene	400	UD	400	850	ug/Kg
207-08-9	Benzo(k)fluoranthene	410	UD	410	850	ug/Kg
50-32-8	Benzo(a)pyrene	460	UD	460	850	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1200	D	390	850	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	410	UD	410	850	ug/Kg
191-24-2	Benzo(g,h,i)perylene	400	UD	400	850	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	430	UD	430	850	ug/Kg
123-91-1	1,4-Dioxane	550	UD	550	850	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100	D	370	850	ug/Kg
90-12-0	1-Methylnaphthalene	420	UD	420	850	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.4		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	84.0		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.4		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.8		20 - 109	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	91.7		10 - 116	61%	SPK: 150
1718-51-0	Terphenyl-d14	78.4		10 - 105	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	114000	6.875			
1146-65-2	Naphthalene-d8	459000	8.157			

Raw Data: **BF140344.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	256000	9.91			
1517-22-2	Phenanthrene-d10	483000	11.398			
1719-03-5	Chrysene-d12	304000	14.063			
1520-96-3	Perylene-d12	246000	15.586			

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\BF111324\
Data File : BF140344.D
Acq On : 13 Nov 2024 16:02
Operator : RC/JU
Sample : P4495-11DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Quant Time: Nov 13 16:21:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	114318	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	459141	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	255752	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	482859	20.000	ng		0.00
76) Chrysene-d12	14.063	240	303940	20.000	ng		0.01
86) Perylene-d12	15.586	264	245817	20.000	ng		0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	110381	16.486	ng		0.00
7) Phenol-d6	6.492	99	152326	16.792	ng		-0.01
23) Nitrobenzene-d5	7.434	82	101107	11.473	ng		0.00
42) 2,4,6-Tribromophenol	10.698	330	46658	18.346	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	206144	12.957	ng		0.00
79) Terphenyl-d14	12.980	244	274486	15.676	ng		0.00
Target Compounds							Qvalue
8) 2-Chlorophenol	6.657	128	82289	11.441	ng		97
11) bis(2-Chloroethyl)ether	6.604	93	246075	33.948	ng		98
12) 1,3-Dichlorobenzene	6.816	146	188447	23.747	ng		99
13) 1,4-Dichlorobenzene	6.892	146	227293	28.248	ng		99
14) 1,2-Dichlorobenzene	7.045	146	117043	15.669	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	170570	17.036	ng		98
18) Hexachloroethane	7.386	117	59071	19.858	ng		99
19) n-Nitroso-di-n-propyla...	7.275	70	187386	34.202	ng		98
24) Nitrobenzene	7.451	77	315173	34.351	ng		98
25) Isophorone	7.686	82	406389	26.021	ng		99
26) 2-Nitrophenol	7.769	139	50637	12.437	ng		97
28) bis(2-Chloroethoxy)met...	7.898	93	221481	23.128	ng		99
30) 1,2,4-Trichlorobenzene	8.098	180	204547	28.520	ng		99
37) 2-Methylnaphthalene	8.869	142	301124	20.163	ng		100
43) 2,4,6-Trichlorophenol	9.145	196	105828	22.801	ng		99
47) 2-Chloronaphthalene	9.357	162	196843	13.888	ng		99
49) Acenaphthylene	9.769	152	371536	17.326	ng		99
50) Dimethylphthalate	9.622	163	235866	14.149	ng		99
52) Acenaphthene	9.945	154	213376	14.732	ng		99
55) Dibenzofuran	10.116	168	551409	26.893	ng		99
56) 4-Nitrophenol	10.016	139	36725	12.615	ng		97
58) Fluorene	10.457	166	376301	23.232	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.233	232	49869	12.446	ng		100
67) 4-Bromophenyl-phenylether	10.939	248	100914	20.907	ng		98
68) Hexachlorobenzene	11.010	284	82539	15.198	ng		97
70) Pentachlorophenol	11.204	266	41962	14.344	ng		97
71) Phenanthrene	11.422	178	283557	12.501	ng		99
72) Anthracene	11.474	178	357761	16.093	ng		99
73) Carbazole	11.627	167	432010	19.681	ng		100
74) Di-n-butylphthalate	11.957	149	518228	19.671	ng		99
75) Fluoranthene	12.610	202	245814	9.659	ng		99
80) Butylbenzylphthalate	13.463	149	226506	22.680	ng		98
81) Benzo(a)anthracene	14.051	228	243532	12.191	ng		98
84) Bis(2-ethylhexyl)phtha...	14.033	149	149258	11.197	ng		98
87) Indeno(1,2,3-cd)pyrene	17.086	276	113732	7.490	ng	#	93

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140344.D
Acq On : 13 Nov 2024 16:02
Operator : RC/JU
Sample : P4495-11DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Quant Time: Nov 13 16:21:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

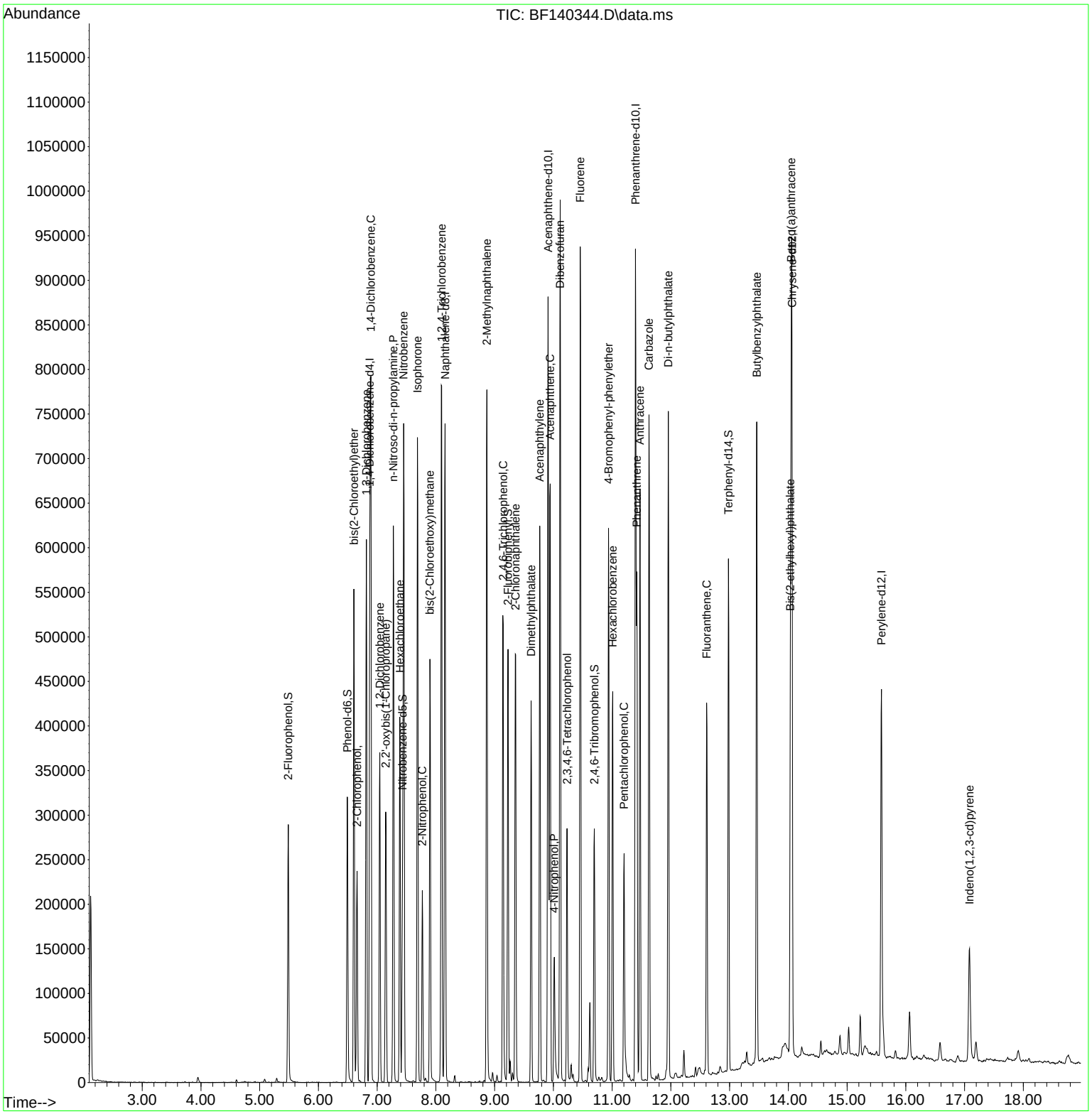
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

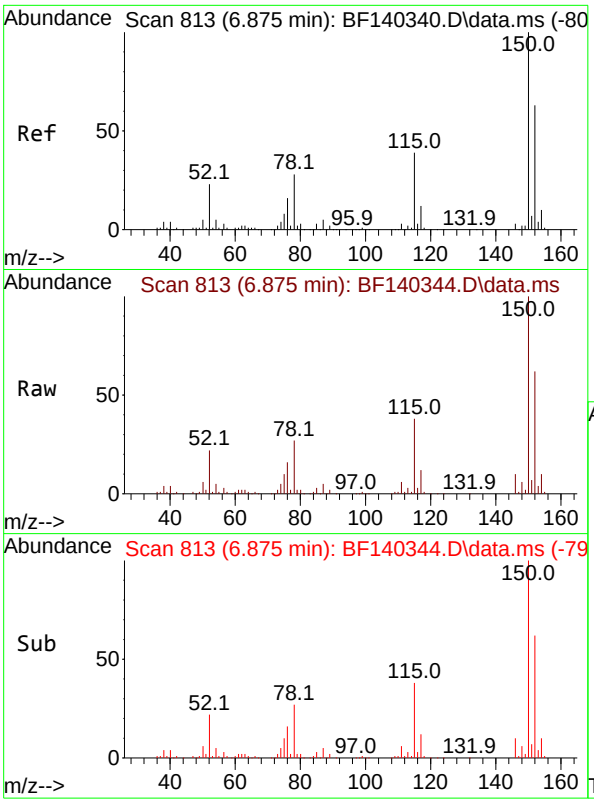
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140344.D
Acq On : 13 Nov 2024 16:02
Operator : RC/JU
Sample : P4495-11DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Quant Time: Nov 13 16:21:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



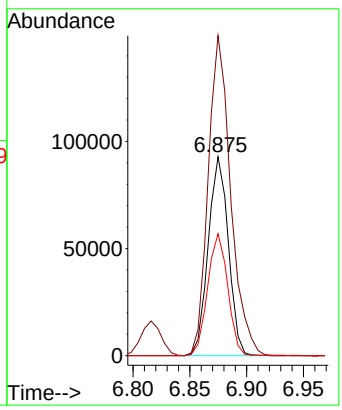


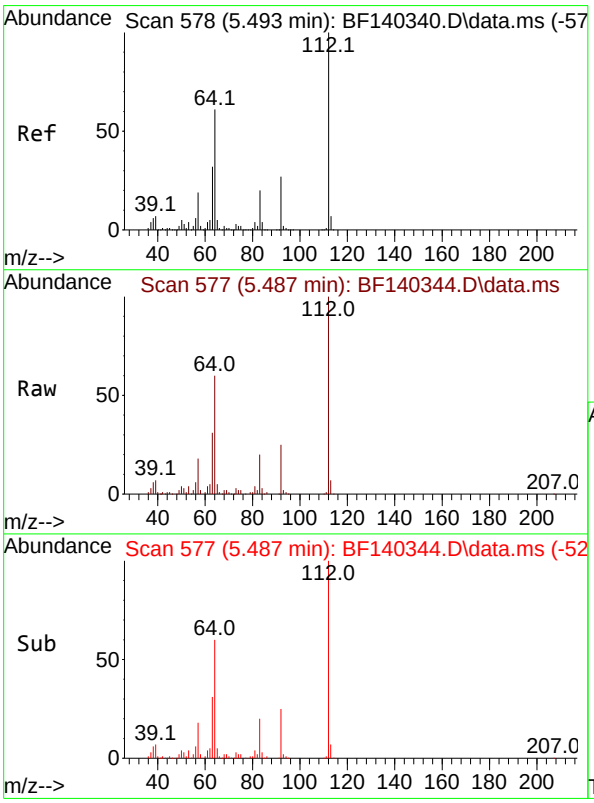
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:152 Resp: 114318

Ion	Ratio	Lower	Upper
152	100		
150	160.9	127.4	191.0
115	61.4	47.4	71.2

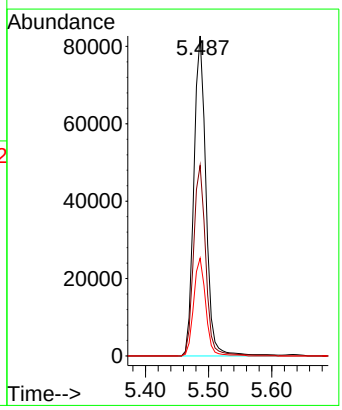


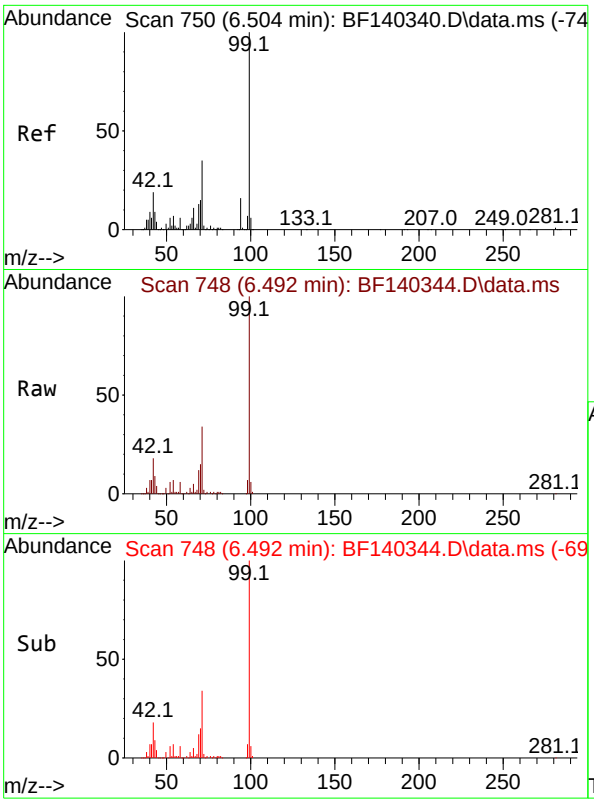


#5
2-Fluorophenol
Concen: 16.486 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:112 Resp: 110381

Ion	Ratio	Lower	Upper
112	100		
64	59.5	49.2	73.8
63	30.6	25.6	38.4



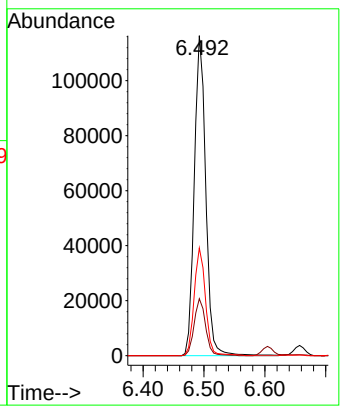


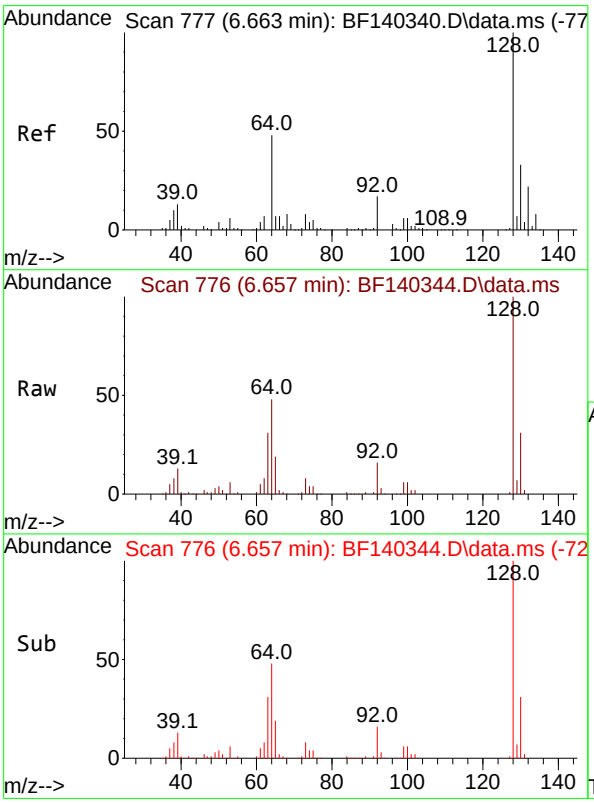
#7
Phenol-d6
Concen: 16.792 ng
RT: 6.492 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion: 99 Resp: 152326

Ion	Ratio	Lower	Upper
99	100		
42	17.8	15.1	22.7
71	33.6	27.9	41.9

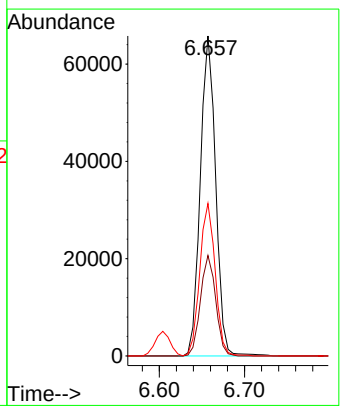


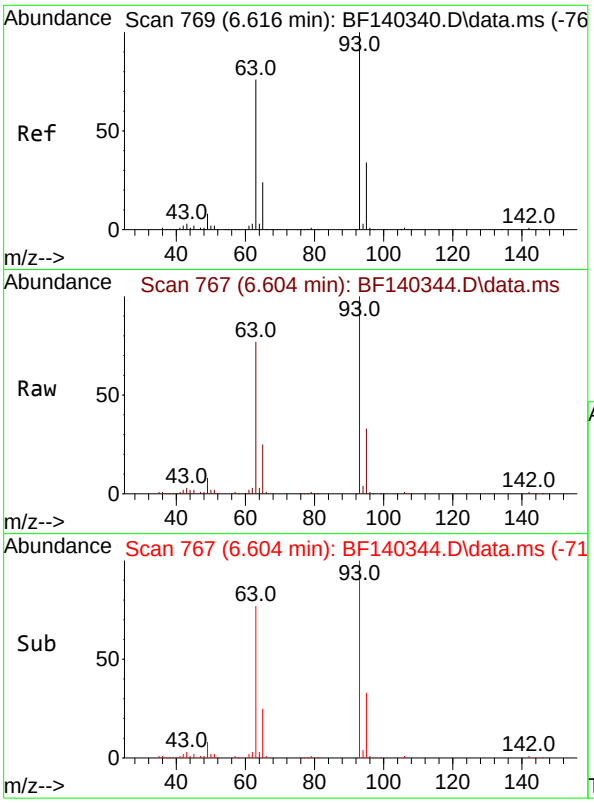


#8
2-Chlorophenol
Concen: 11.441 ng
RT: 6.657 min Scan# 776
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:128 Resp: 82289

Ion	Ratio	Lower	Upper
128	100		
130	31.4	12.2	52.2
64	47.6	30.2	70.2



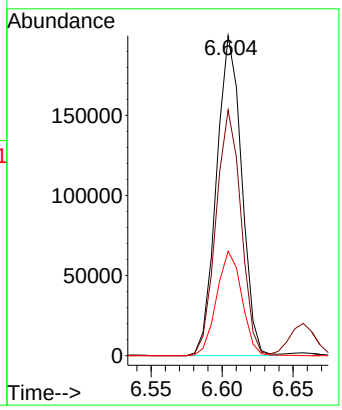


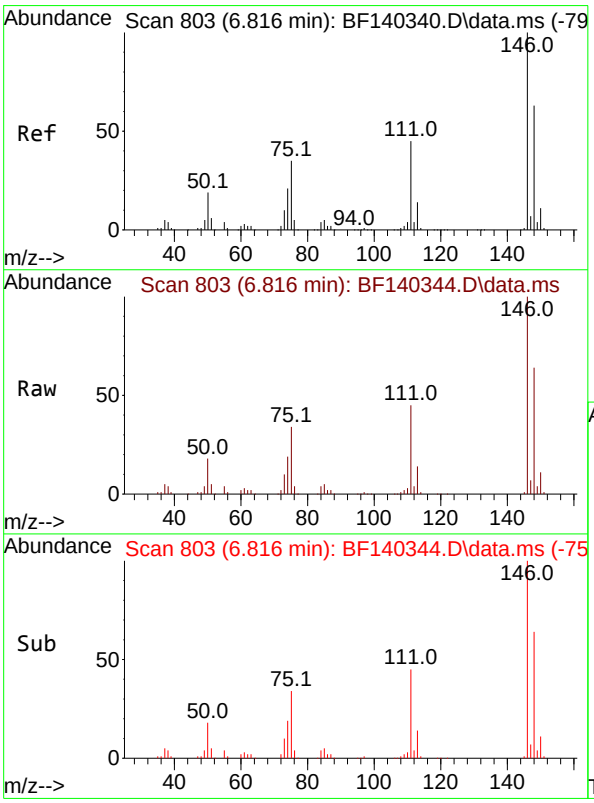
#11
bis(2-Chloroethyl)ether
Concen: 33.948 ng
RT: 6.604 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion: 93 Resp: 246075

Ion	Ratio	Lower	Upper
93	100		
63	76.7	54.0	94.0
95	32.6	12.9	52.9

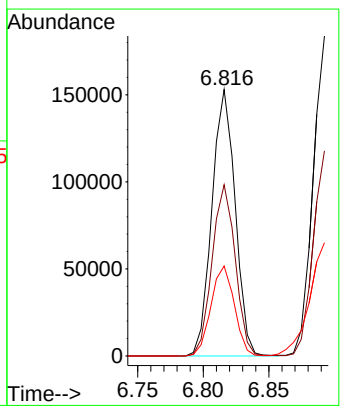


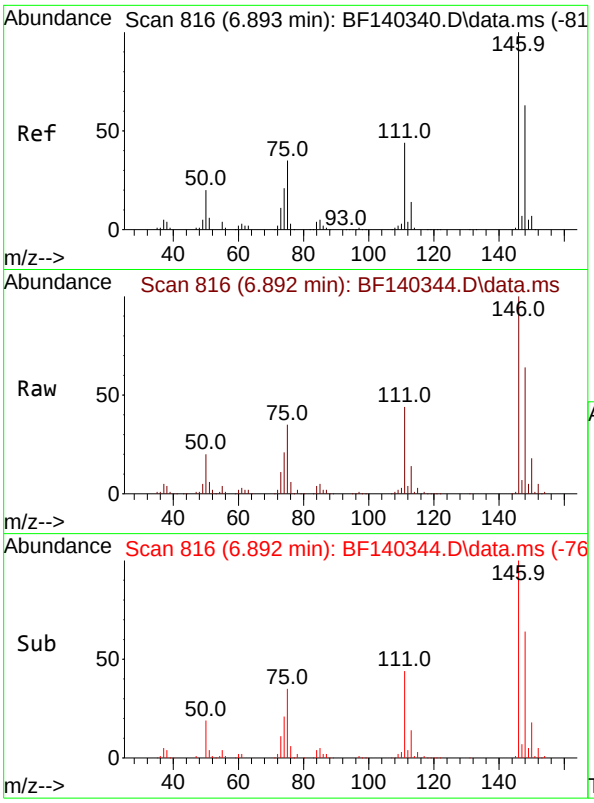


#12
1,3-Dichlorobenzene
Concen: 23.747 ng
RT: 6.816 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:146 Resp: 188447

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.7	76.1
75	33.7	26.4	39.6



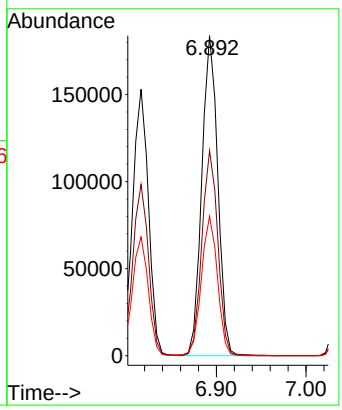


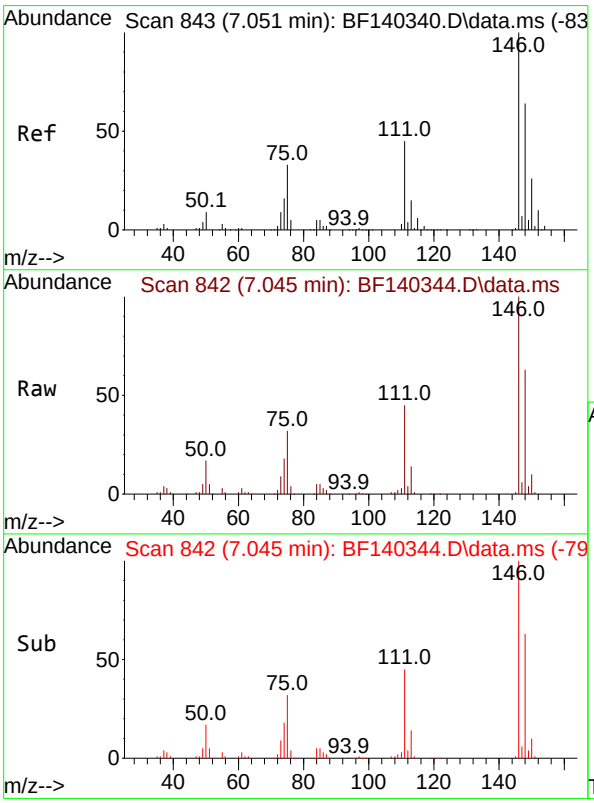
#13
1,4-Dichlorobenzene
Concen: 28.248 ng
RT: 6.892 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:146 Resp: 227293

Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.8	76.2
111	43.6	34.2	51.2

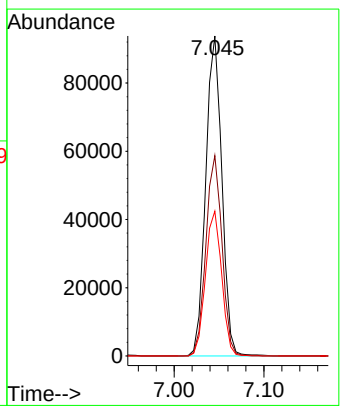


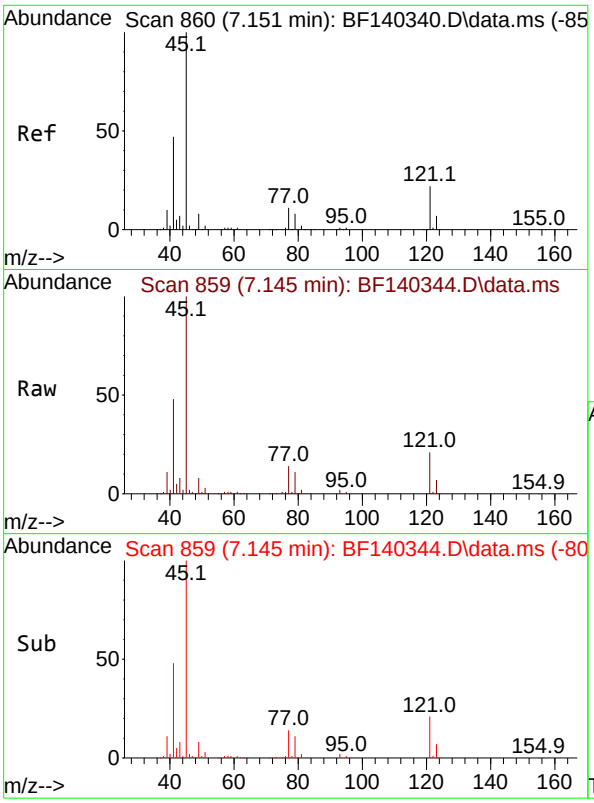


#14
1,2-Dichlorobenzene
Concen: 15.669 ng
RT: 7.045 min Scan# 842
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:146 Resp: 117043

Ion	Ratio	Lower	Upper
146	100		
148	62.6	51.2	76.8
111	45.3	36.5	54.7



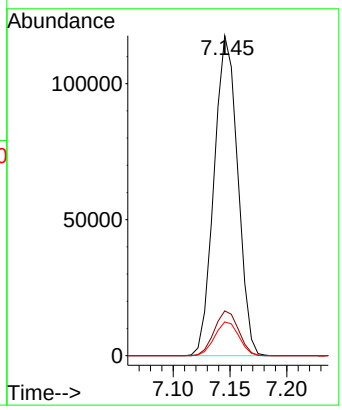


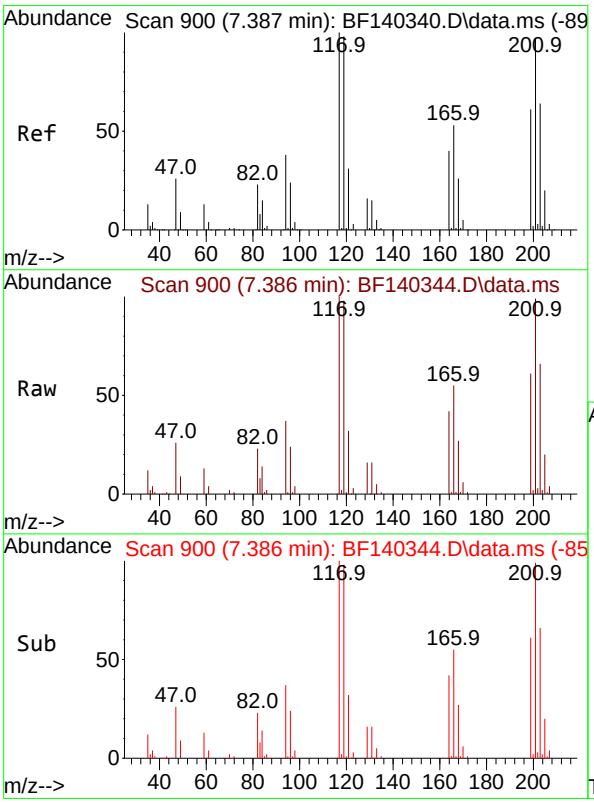
#16
2,2'-oxybis(1-Chloropropane)
Concen: 17.036 ng
RT: 7.145 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion: 45 Resp: 170570

Ion	Ratio	Lower	Upper
45	100		
77	14.0	0.0	34.8
79	10.6	0.0	31.4

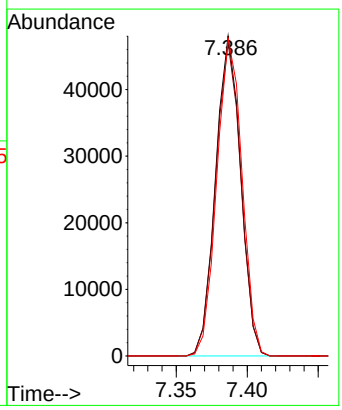


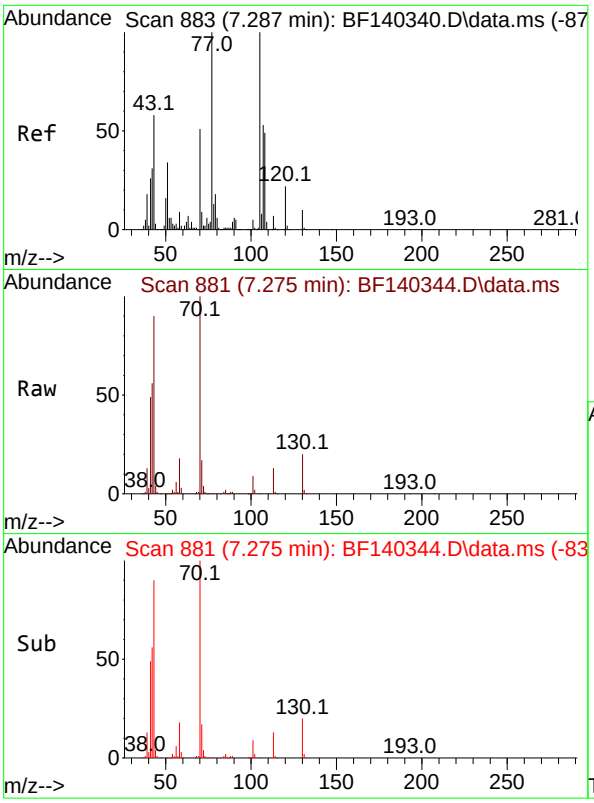


#18
Hexachloroethane
Concen: 19.858 ng
RT: 7.386 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:117 Resp: 59071

Ion	Ratio	Lower	Upper
117	100		
119	97.9	76.9	115.3
201	99.3	80.2	120.4



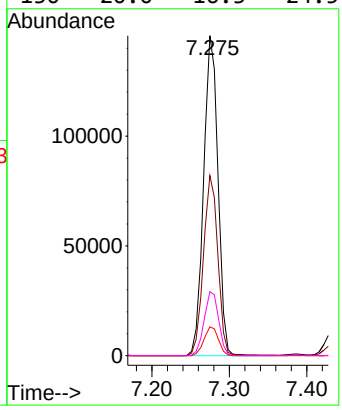


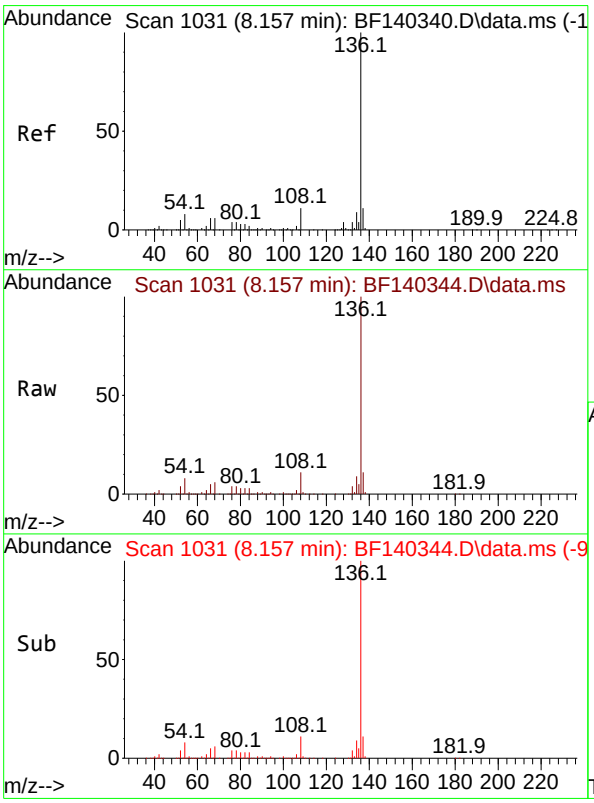
#19
n-Nitroso-di-n-propylamine
Concen: 34.202 ng
RT: 7.275 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion: 70 Resp: 187386

Ion	Ratio	Lower	Upper
70	100		
42	56.3	46.8	70.2
101	9.0	7.5	11.3
130	20.0	16.3	24.5

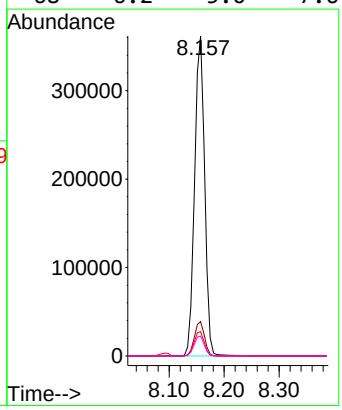


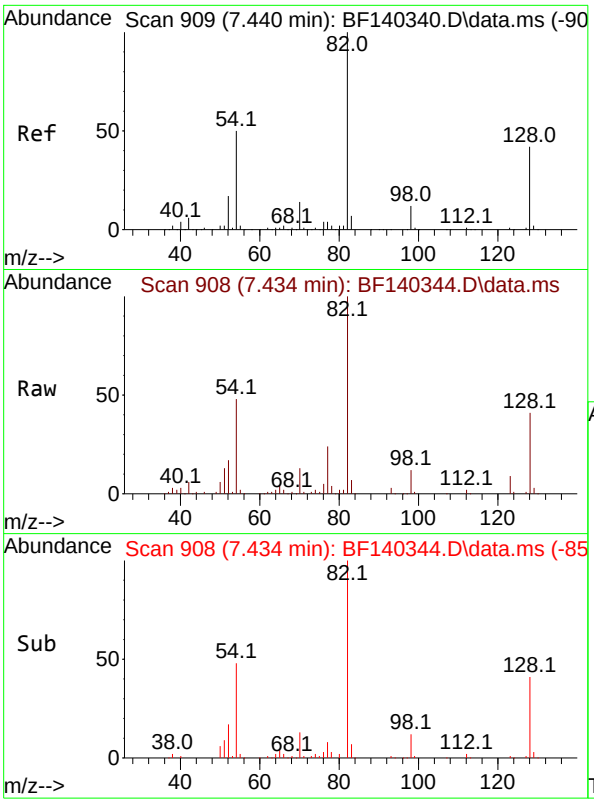


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.000 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:136 Resp: 459141

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.7	13.1
54	7.6	6.5	9.7
68	6.2	5.0	7.6



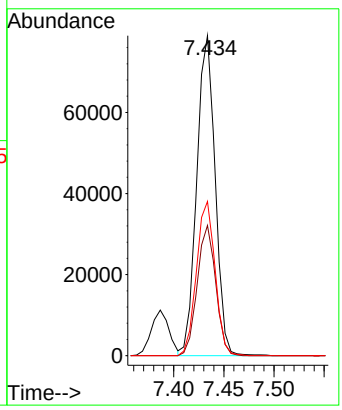


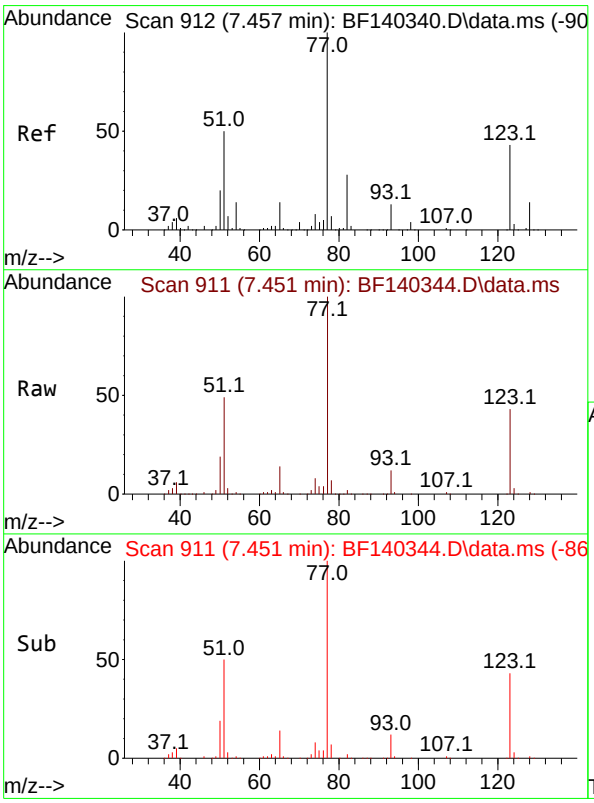
#23
Nitrobenzene-d5
Concen: 11.473 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion: 82 Resp: 101107

Ion	Ratio	Lower	Upper
82	100		
128	40.7	33.3	49.9
54	48.2	39.8	59.8

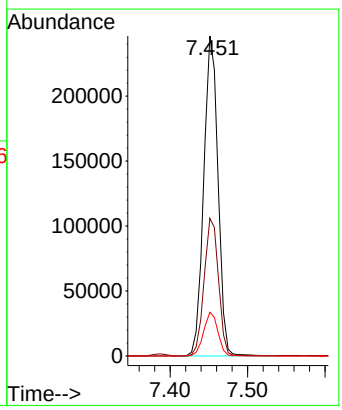


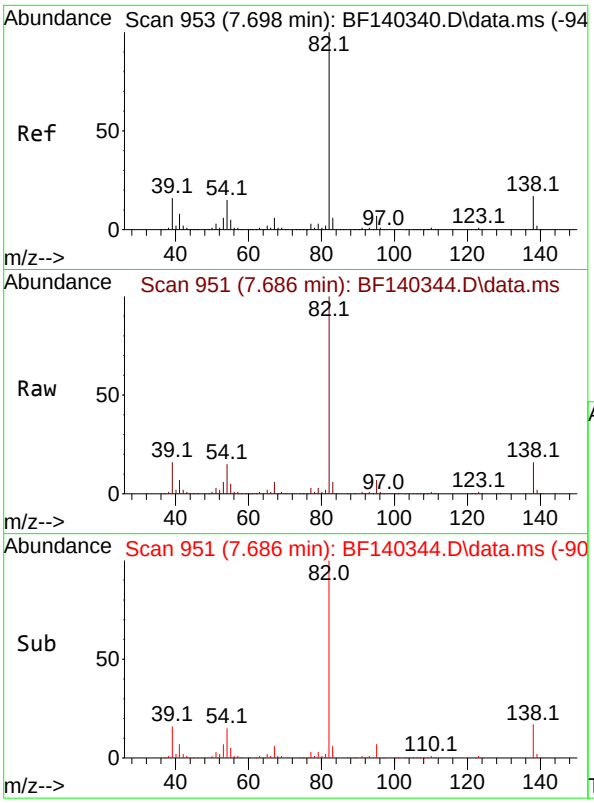


#24
Nitrobenzene
Concen: 34.351 ng
RT: 7.451 min Scan# 911
Delta R.T. -0.012 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion: 77 Resp: 315173

Ion	Ratio	Lower	Upper
77	100		
123	43.0	35.4	53.0
65	13.7	11.1	16.7



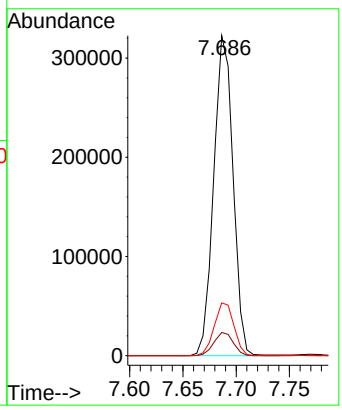


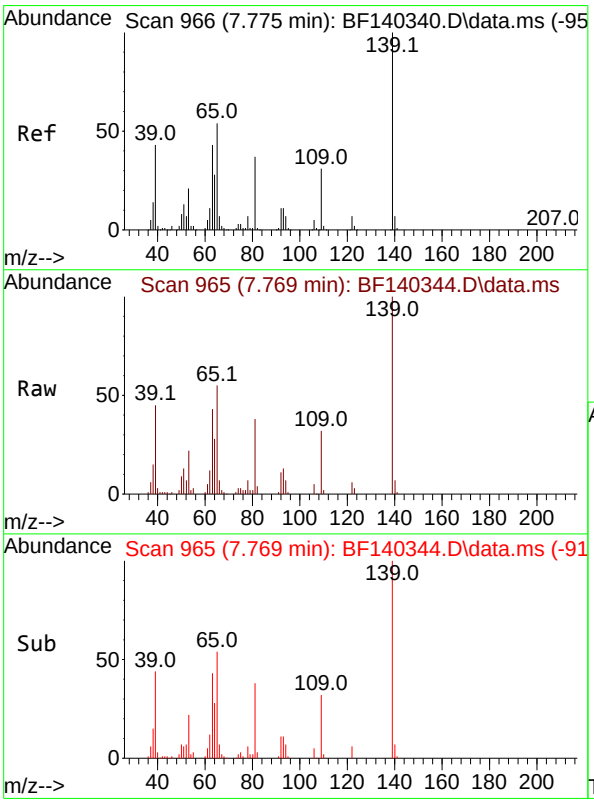
#25
Isophorone
Concen: 26.021 ng
RT: 7.686 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion: 82 Resp: 406389

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.9	8.9
138	16.5	13.4	20.2

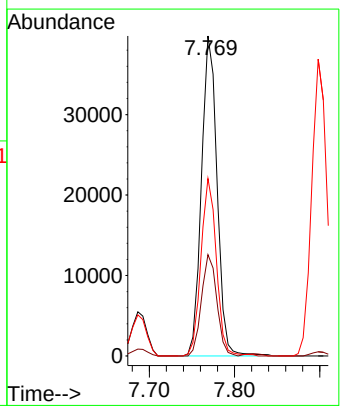


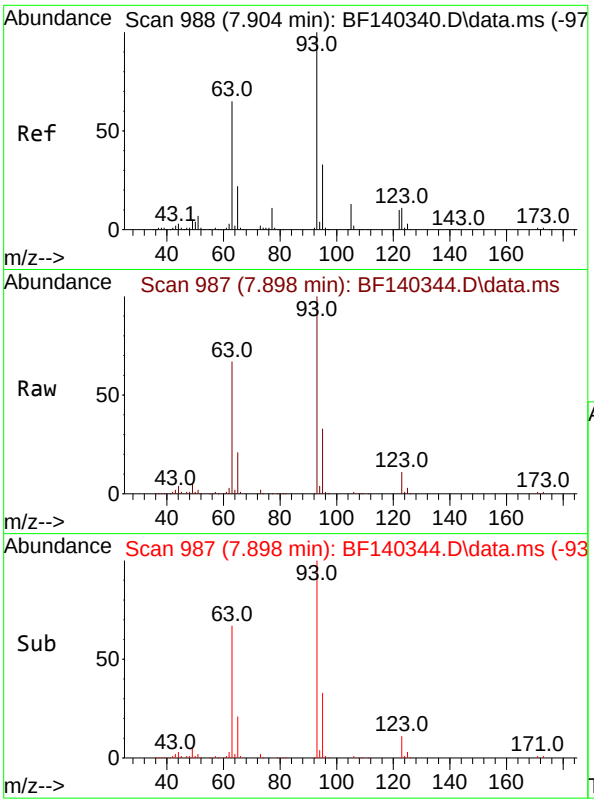


#26
2-Nitrophenol
Concen: 12.437 ng
RT: 7.769 min Scan# 965
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:139 Resp: 50637

Ion	Ratio	Lower	Upper
139	100		
109	31.6	24.4	36.6
65	55.5	42.8	64.2



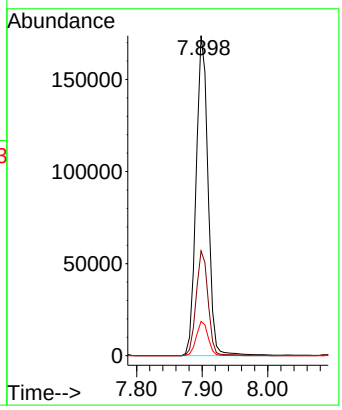


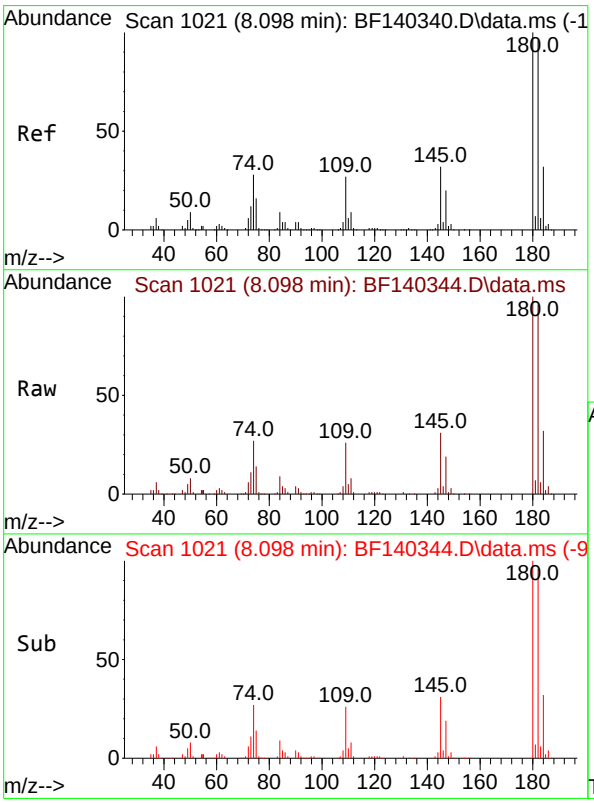
#28
bis(2-Chloroethoxy)methane
Concen: 23.128 ng
RT: 7.898 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion: 93 Resp: 221481

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.9	38.9
123	10.7	9.2	13.8

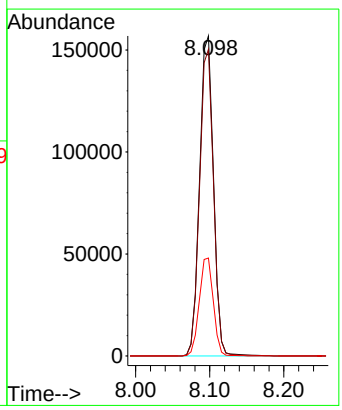


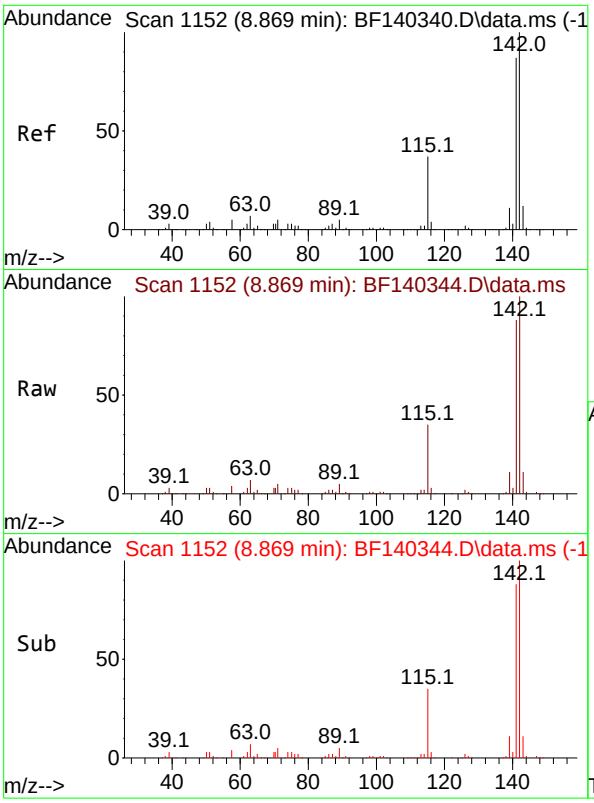


#30
1,2,4-Trichlorobenzene
Concen: 28.520 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.000 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:180 Resp: 204547

Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.5	114.7
145	30.6	25.3	37.9



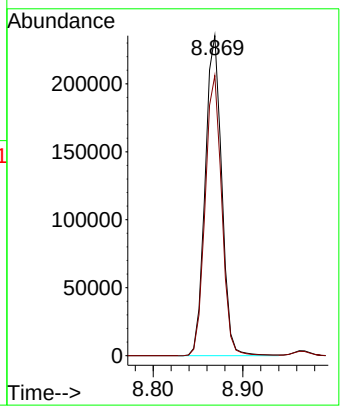


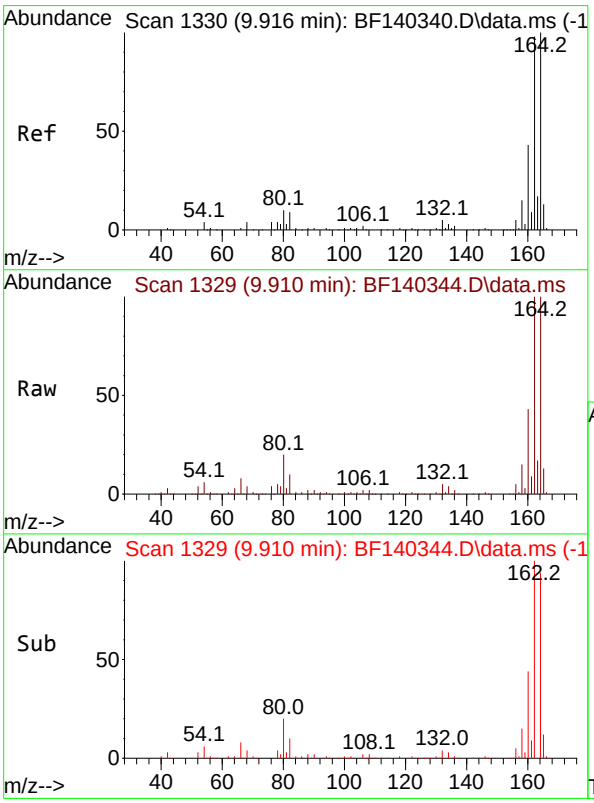
#37
2-Methylnaphthalene
Concen: 20.163 ng
RT: 8.869 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:142 Resp: 301124

Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.4	105.6

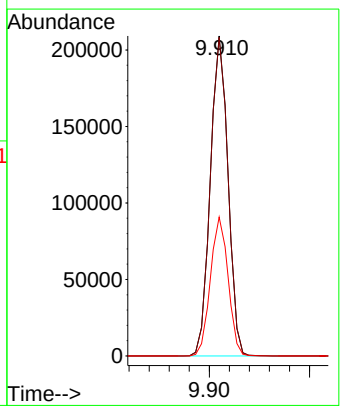


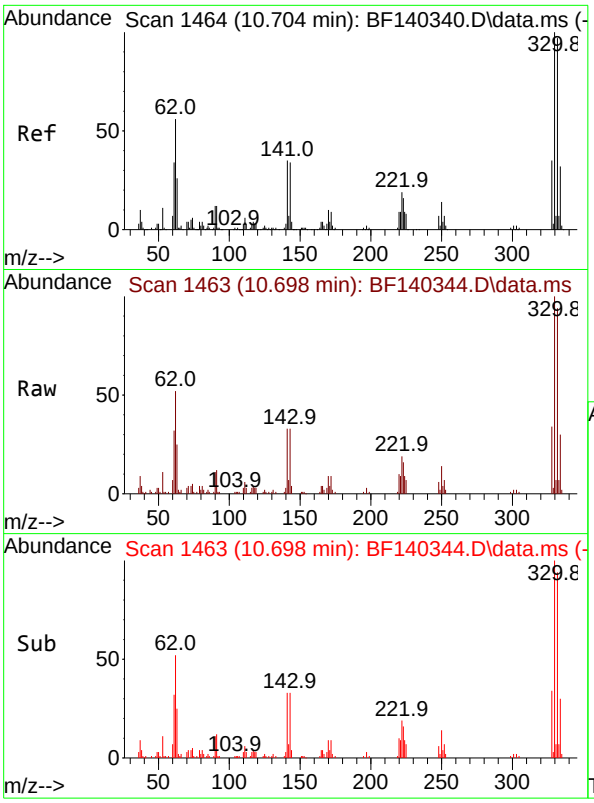


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:164 Resp: 255752

Ion	Ratio	Lower	Upper
164	100		
162	99.6	79.8	119.8
160	43.4	35.4	53.0



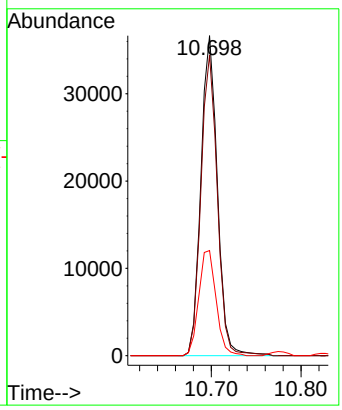


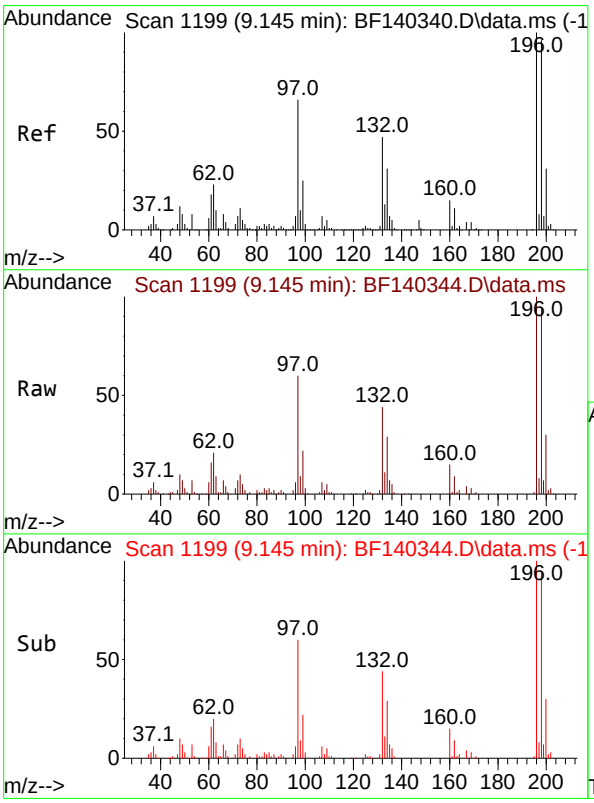
#42
2,4,6-Tribromophenol
Concen: 18.346 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:330 Resp: 46658

Ion	Ratio	Lower	Upper
330	100		
332	93.7	75.9	113.9
141	34.7	26.9	40.3

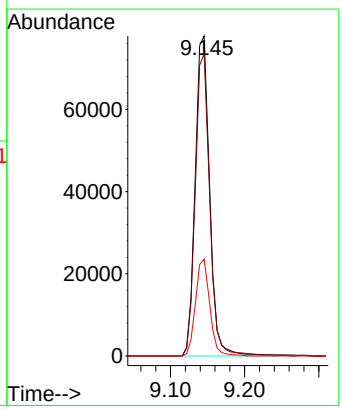


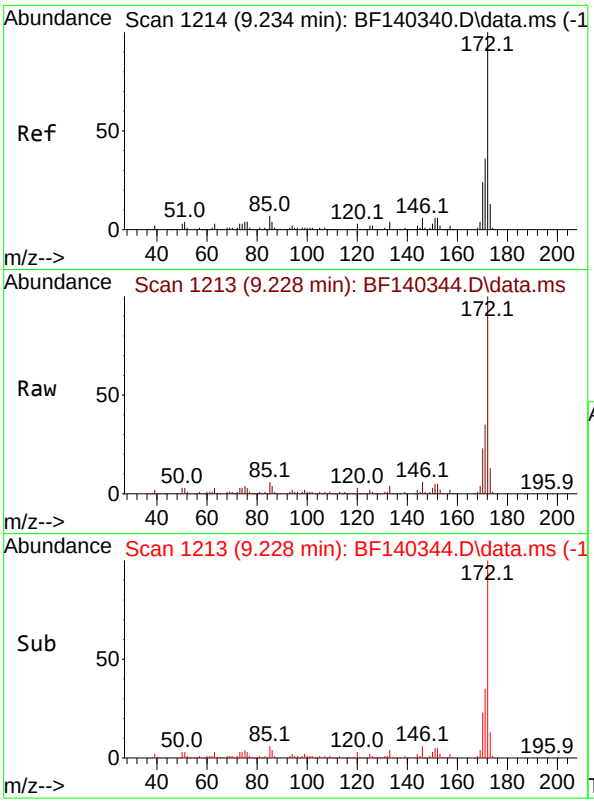


#43
2,4,6-Trichlorophenol
Concen: 22.801 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.000 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:196 Resp: 105828

Ion	Ratio	Lower	Upper
196	100		
198	94.4	77.0	115.4
200	30.2	24.2	36.4



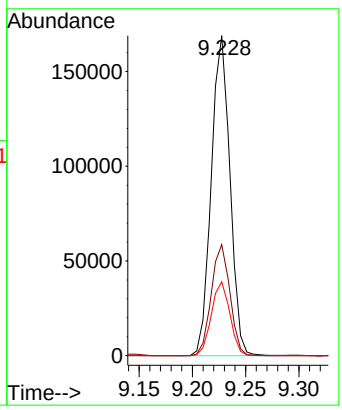


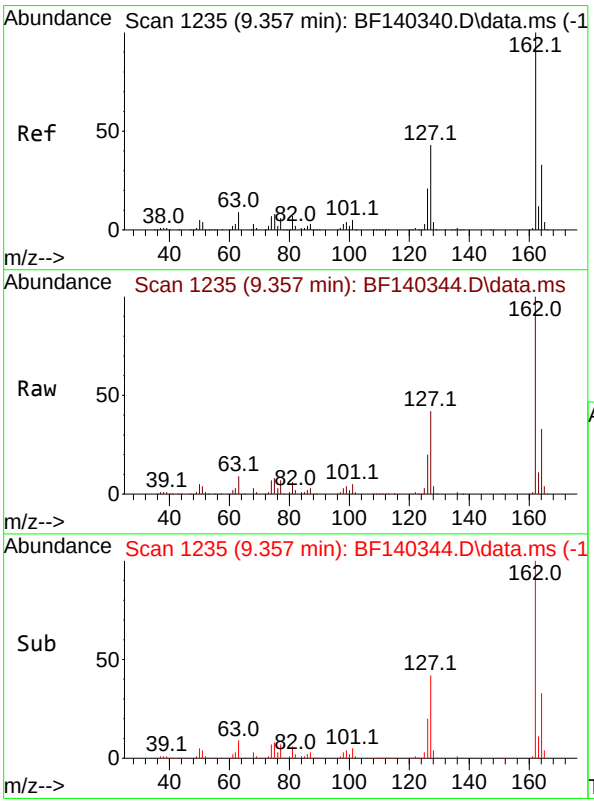
#45
2-Fluorobiphenyl
Concen: 12.957 ng
RT: 9.228 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:172 Resp: 206144

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.5	42.7
170	23.1	19.1	28.7

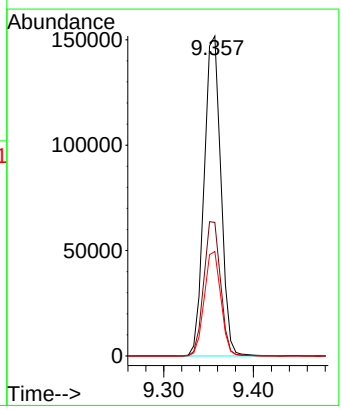


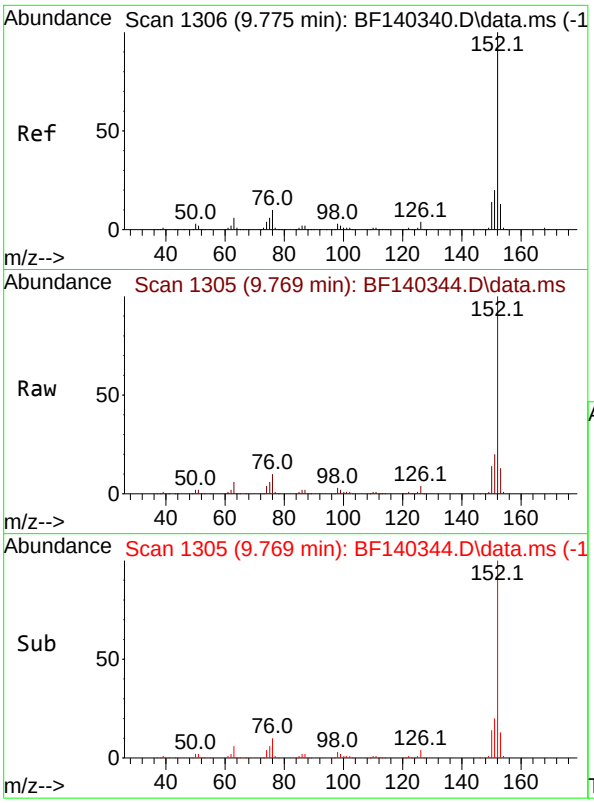


#47
2-Chloronaphthalene
Concen: 13.888 ng
RT: 9.357 min Scan# 1235
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:162 Resp: 196843

Ion	Ratio	Lower	Upper
162	100		
127	41.8	34.0	51.0
164	32.7	26.5	39.7



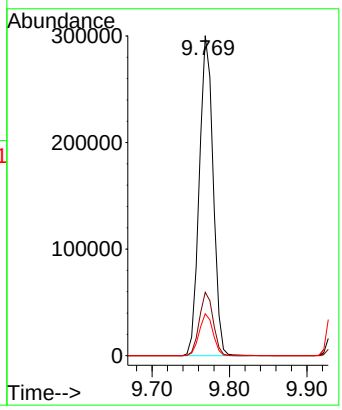


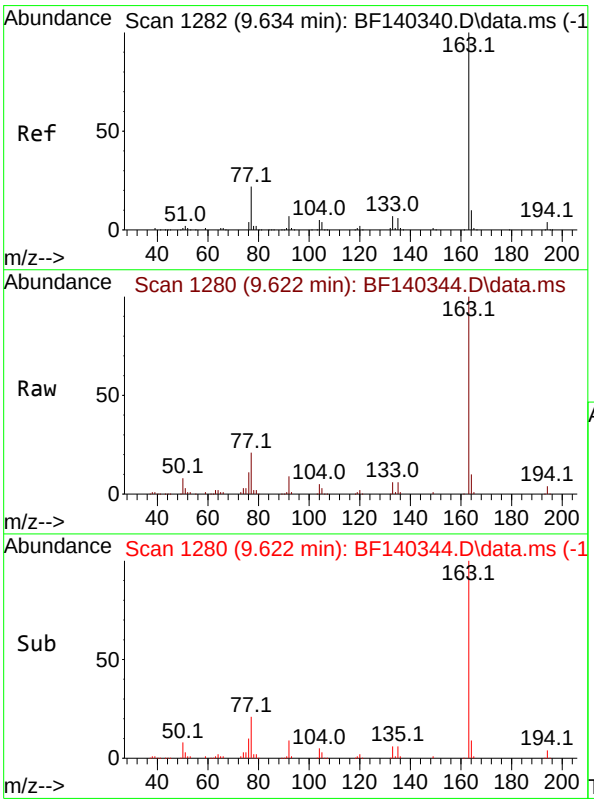
#49
Acenaphthylene
Concen: 17.326 ng
RT: 9.769 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:152 Resp: 371536

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.1	24.1
153	13.1	10.7	16.1

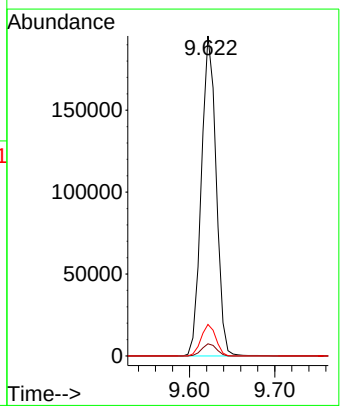


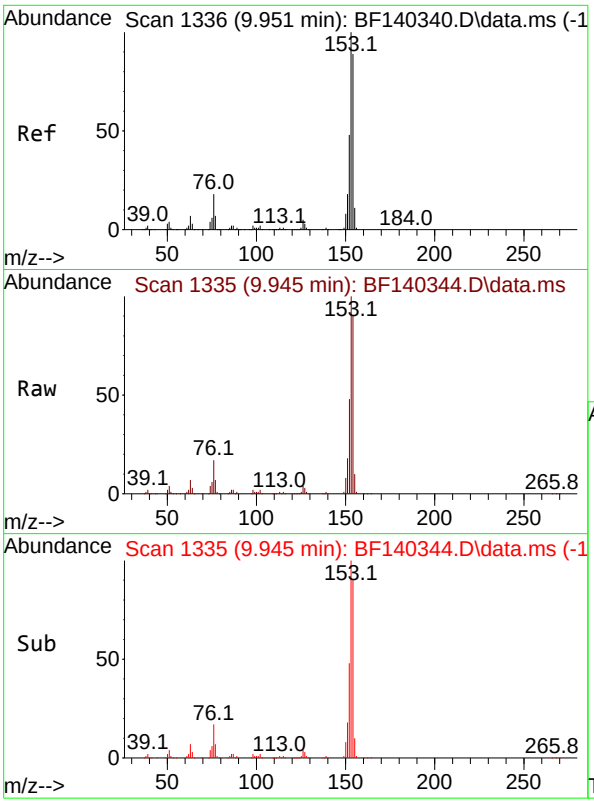


#50
Dimethylphthalate
Concen: 14.149 ng
RT: 9.622 min Scan# 1280
Delta R.T. -0.012 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:163 Resp: 235866

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	9.9	8.2	12.4



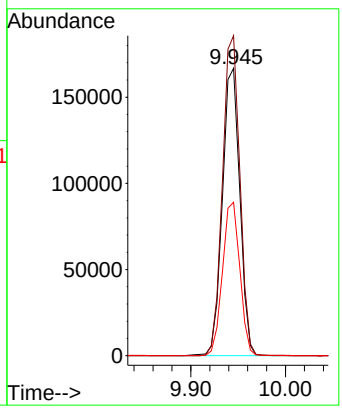


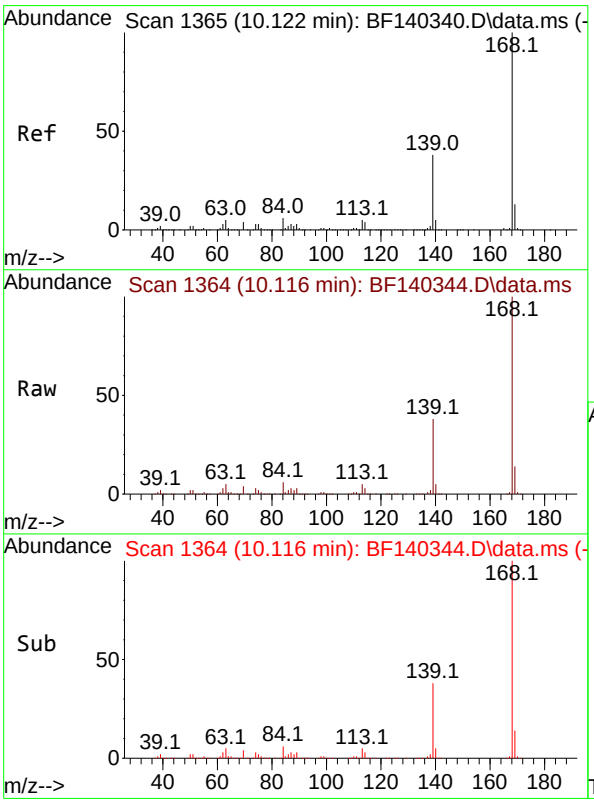
#52
Acenaphthene
Concen: 14.732 ng
RT: 9.945 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:154 Resp: 213376

Ion	Ratio	Lower	Upper
154	100		
153	111.4	89.8	134.8
152	53.4	42.6	64.0

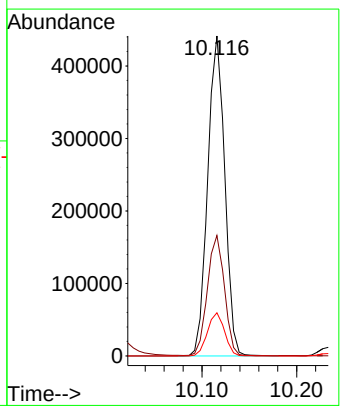


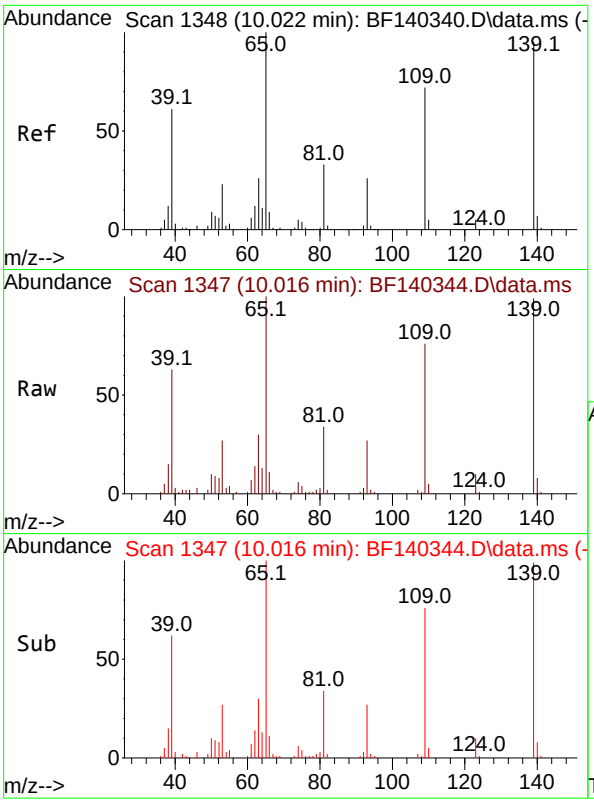


#55
Dibenzofuran
Concen: 26.893 ng
RT: 10.116 min Scan# 1364
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:168 Resp: 551409

Ion	Ratio	Lower	Upper
168	100		
139	37.7	30.8	46.2
169	13.5	10.8	16.2



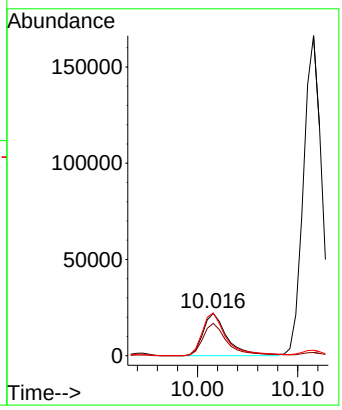


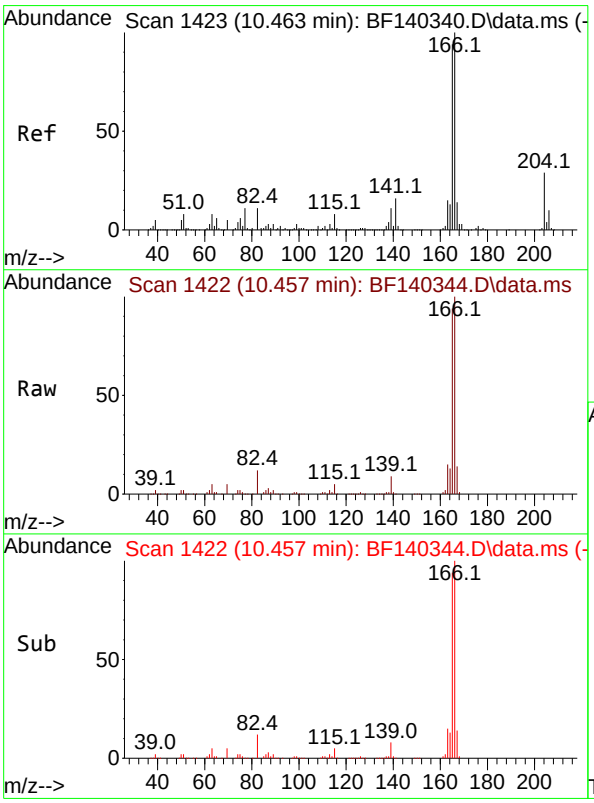
#56
4-Nitrophenol
Concen: 12.615 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:139 Resp: 36725

Ion	Ratio	Lower	Upper
139	100		
109	76.2	54.5	94.5
65	100.6	84.4	124.4

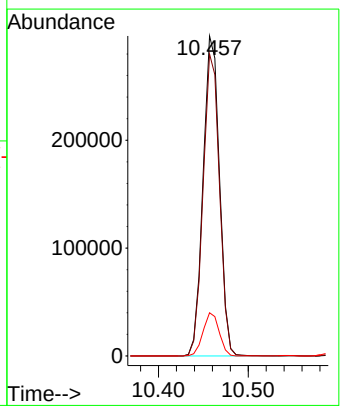


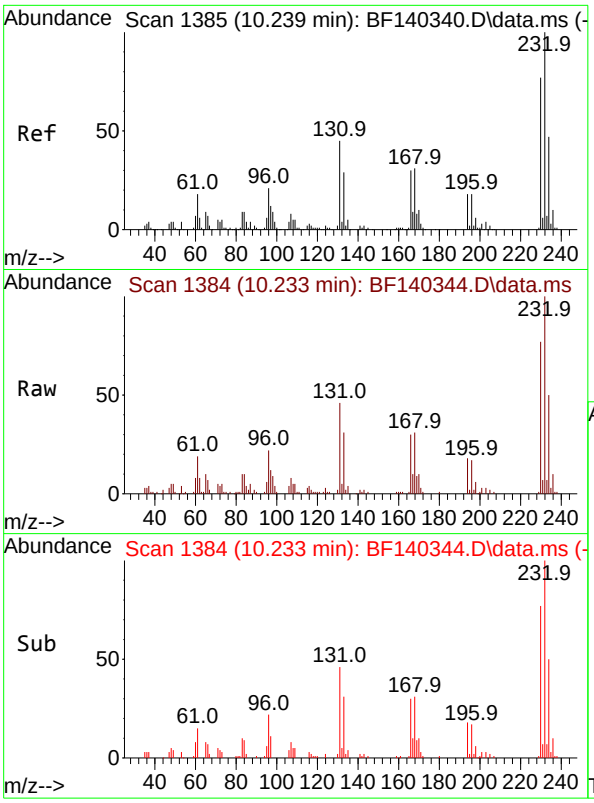


#58
Fluorene
Concen: 23.232 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:166 Resp: 376301

Ion	Ratio	Lower	Upper
166	100		
165	94.4	73.9	110.9
167	13.5	10.9	16.3



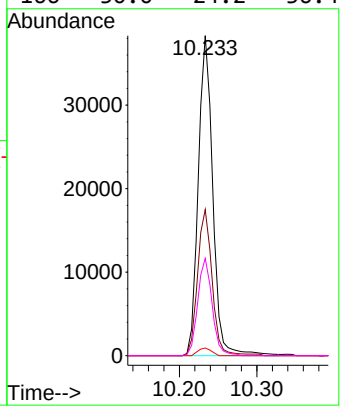


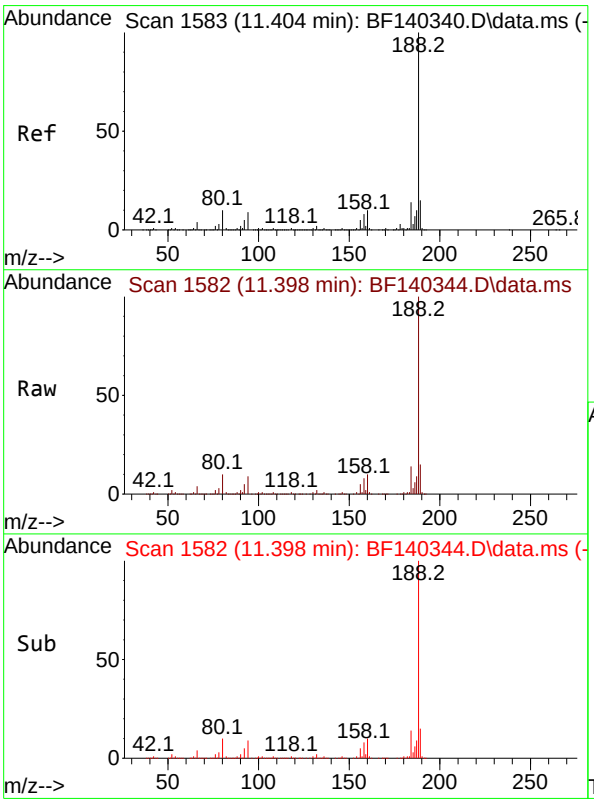
#59
2,3,4,6-Tetrachlorophenol
Concen: 12.446 ng
RT: 10.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:232 Resp: 49869

Ion	Ratio	Lower	Upper
232	100		
131	45.9	36.8	55.2
130	2.2	1.9	2.9
166	30.0	24.2	36.4

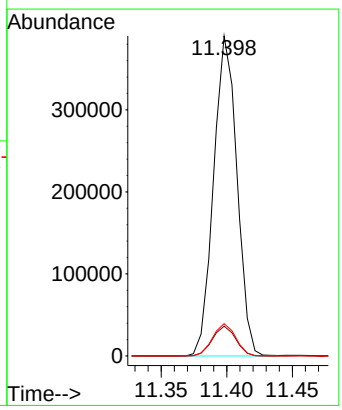


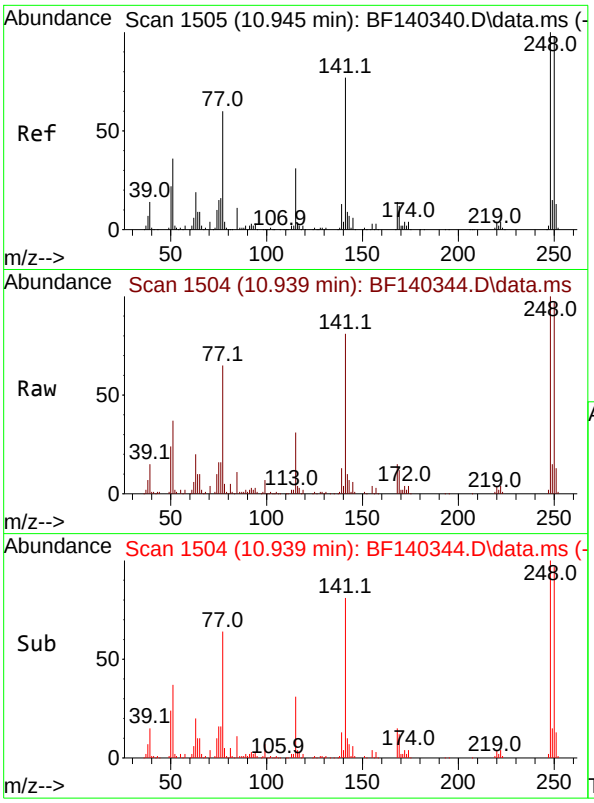


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:188 Resp: 482859

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.6	11.4
80	10.1	8.0	12.0



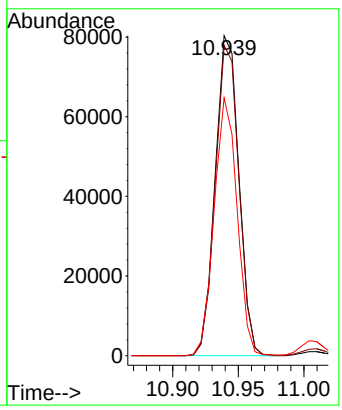


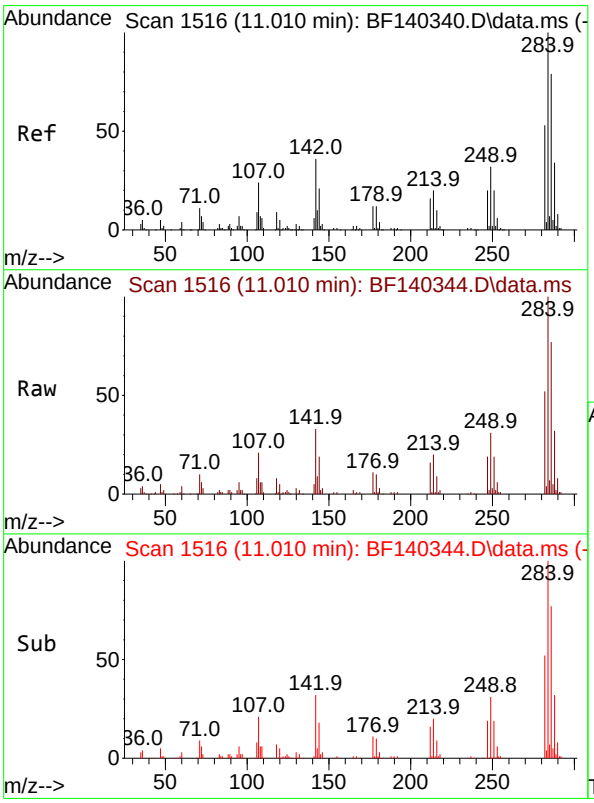
#67
4-Bromophenyl-phenylether
Concen: 20.907 ng
RT: 10.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:248 Resp: 100914

Ion	Ratio	Lower	Upper
248	100		
250	96.9	77.9	116.9
141	80.6	61.8	92.6

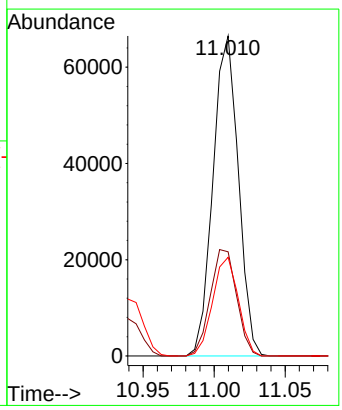


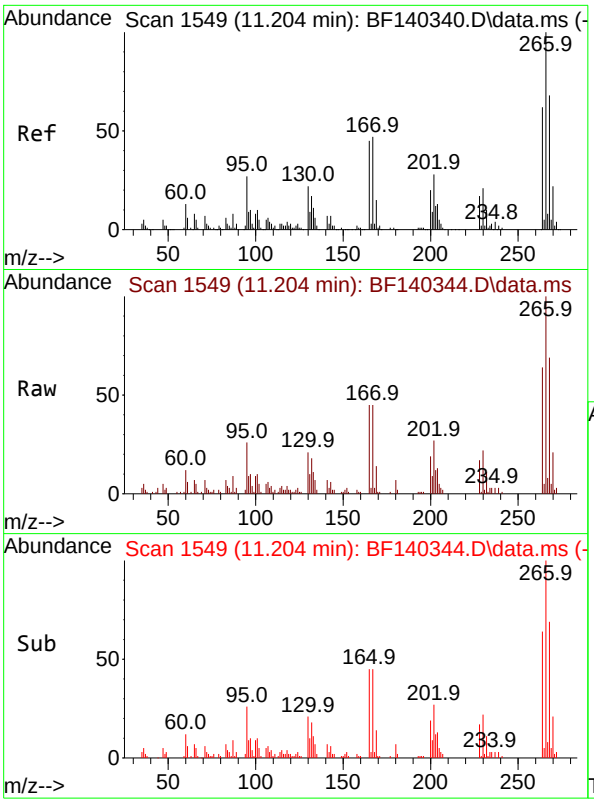


#68
Hexachlorobenzene
Concen: 15.198 ng
RT: 11.010 min Scan# 1516
Delta R.T. -0.000 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:284 Resp: 82539

Ion	Ratio	Lower	Upper
284	100		
142	32.6	28.1	42.1
249	30.9	24.9	37.3



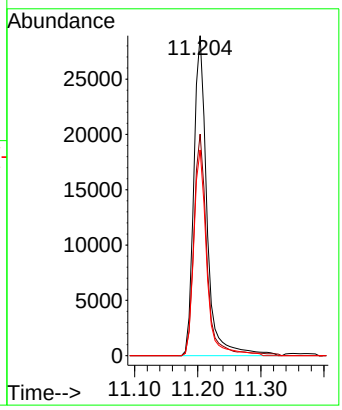


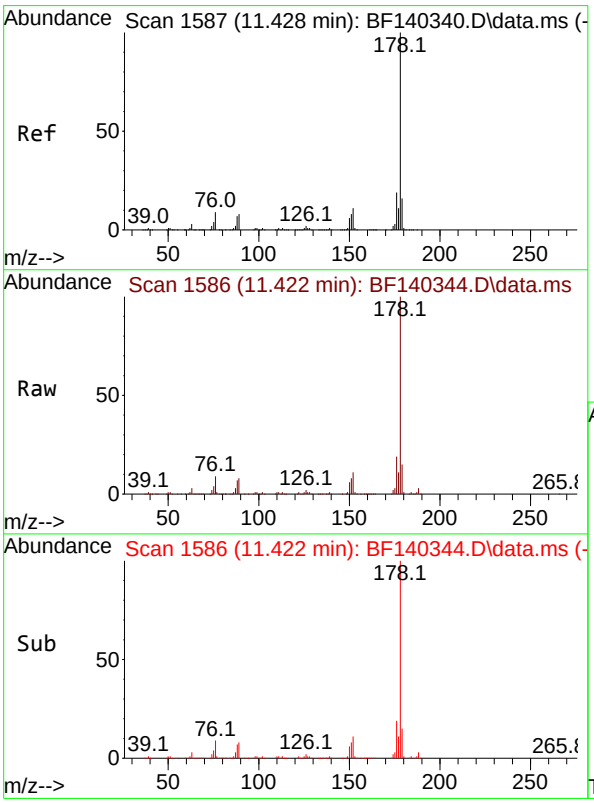
#70
Pentachlorophenol
Concen: 14.344 ng
RT: 11.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:266 Resp: 41962

Ion	Ratio	Lower	Upper
266	100		
268	69.3	52.9	79.3
264	64.3	50.3	75.5

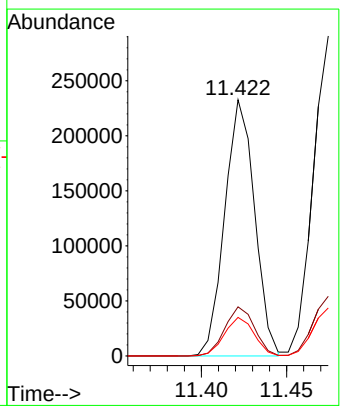


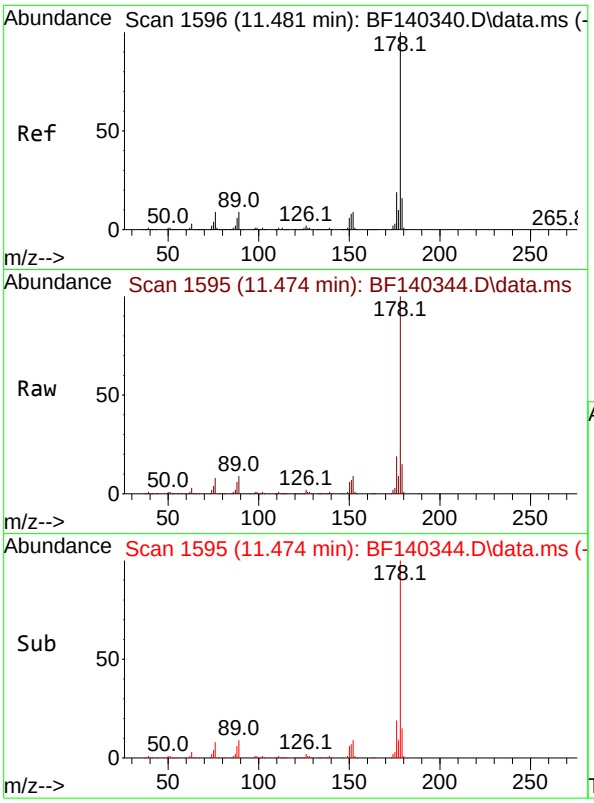


#71
Phenanthrene
Concen: 12.501 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:178 Resp: 283557

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.1	12.4	18.6



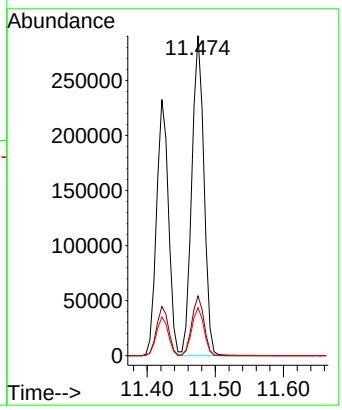


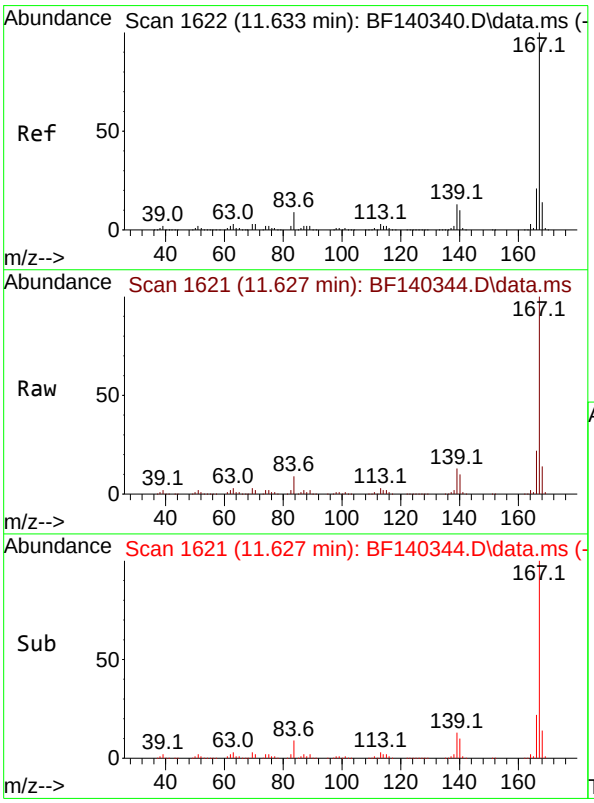
#72
Anthracene
Concen: 16.093 ng
RT: 11.474 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:178 Resp: 357761

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	15.0	12.6	18.8

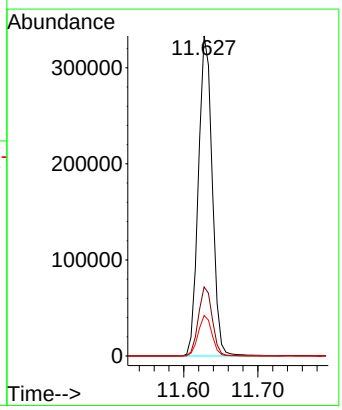


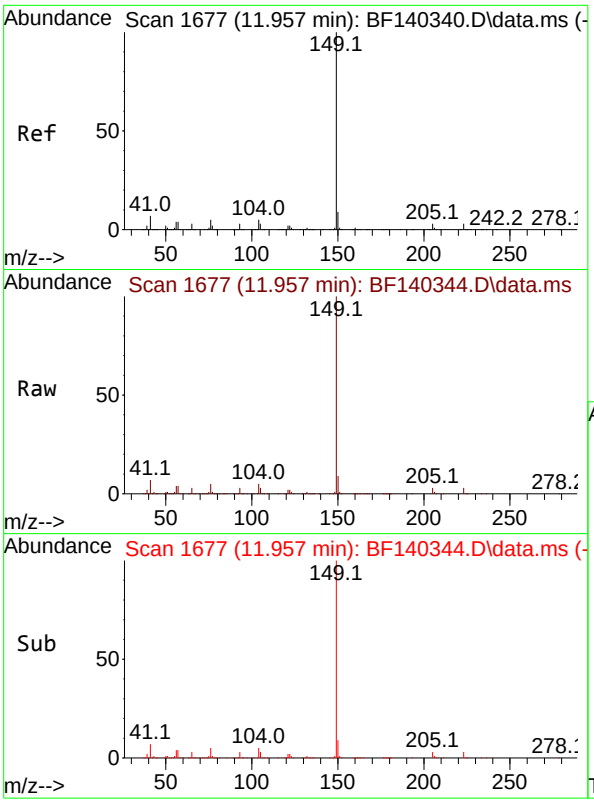


#73
Carbazole
Concen: 19.681 ng
RT: 11.627 min Scan# 1621
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:167 Resp: 432010

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.2	25.8
139	12.7	10.4	15.6



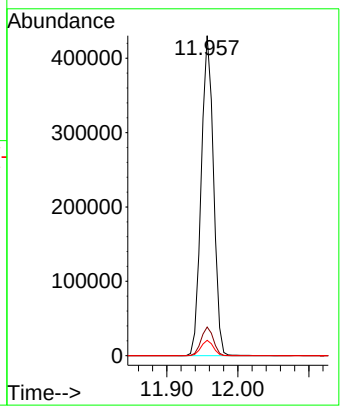


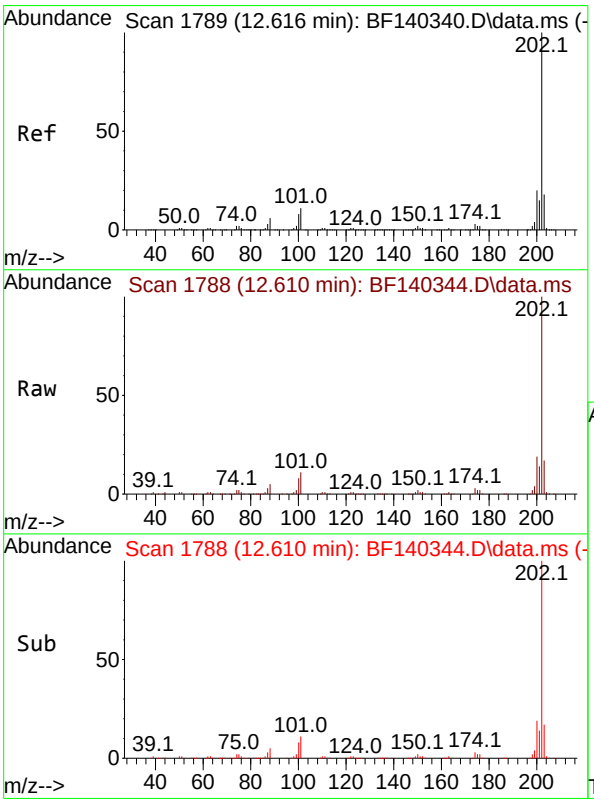
#74
Di-n-butylphthalate
Concen: 19.671 ng
RT: 11.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:149 Resp: 518228

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.2
104	4.8	4.0	6.0

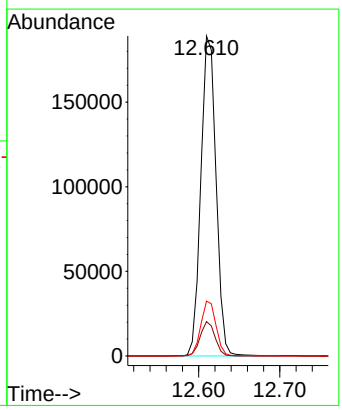


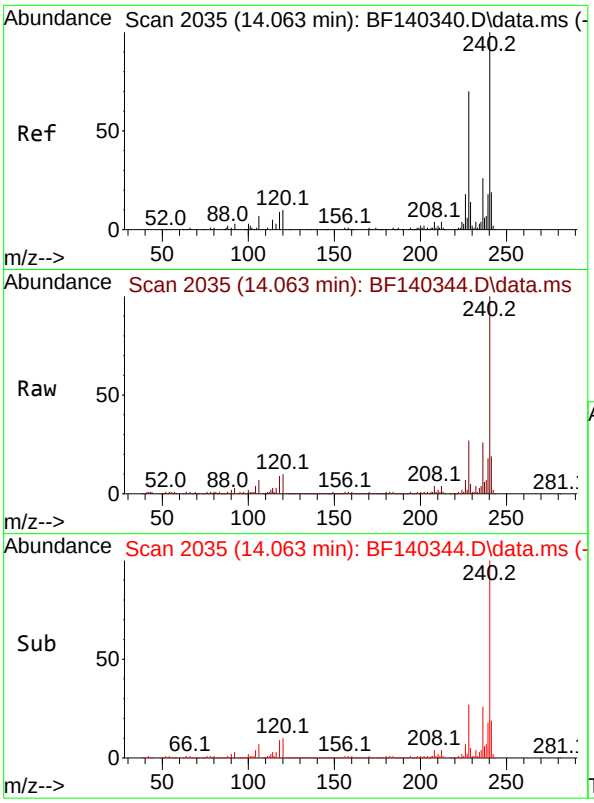


#75
Fluoranthene
Concen: 9.659 ng
RT: 12.610 min Scan# 1788
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:202 Resp: 245814

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	30.7
203	17.1	0.0	37.7



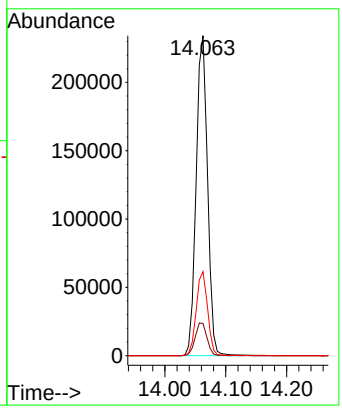


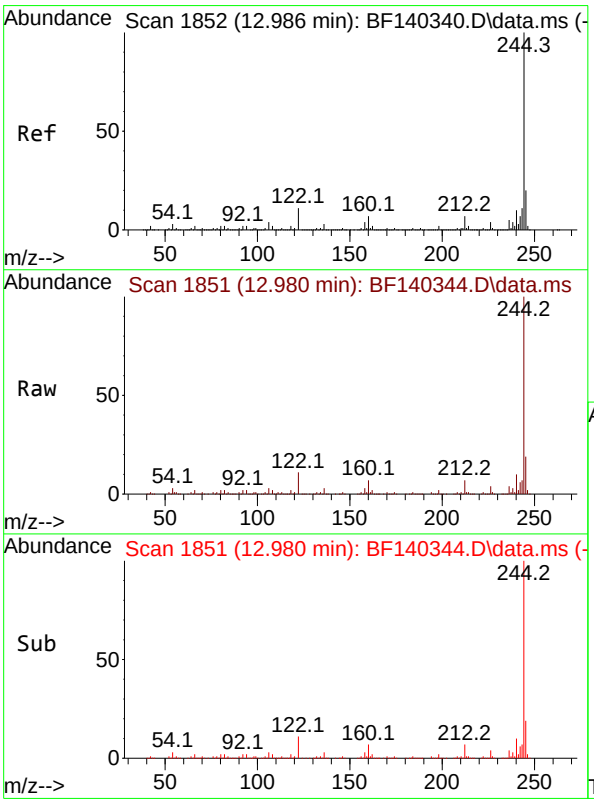
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:240 Resp: 303940

Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.8	13.2
236	26.3	20.9	31.3

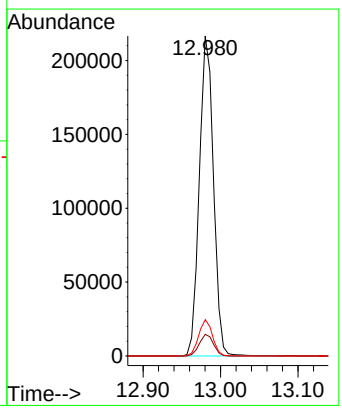


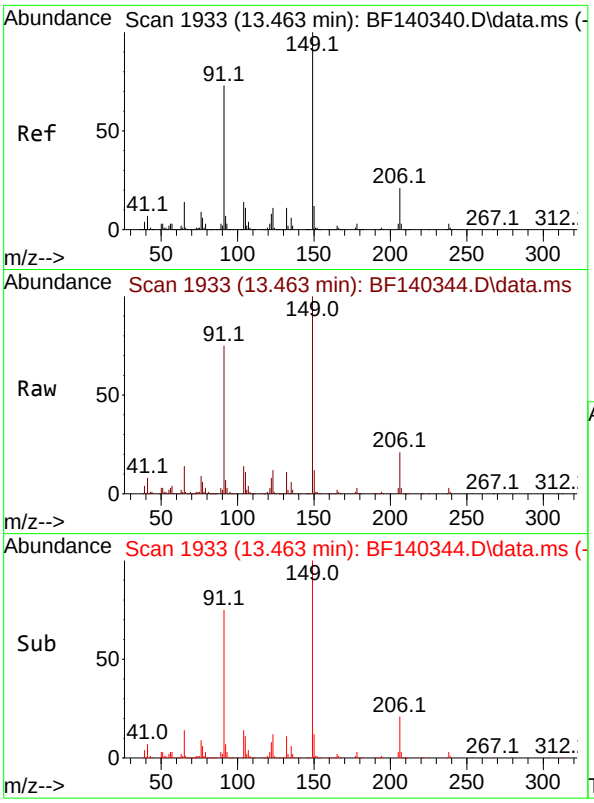


#79
Terphenyl-d14
Concen: 15.676 ng
RT: 12.980 min Scan# 1851
Delta R.T. -0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:244 Resp: 274486

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.8	8.8
122	11.4	8.8	13.2



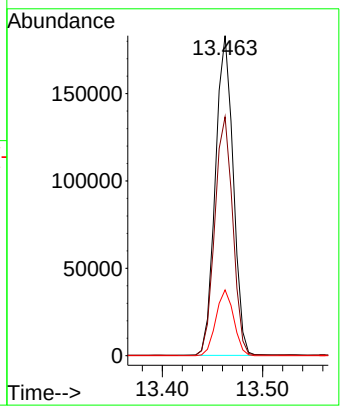


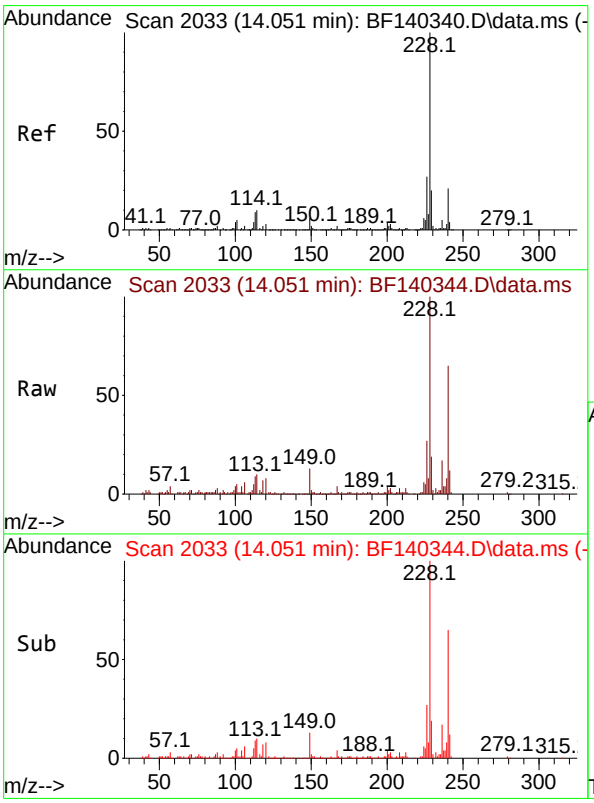
#80
Butylbenzylphthalate
Concen: 22.680 ng
RT: 13.463 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:149 Resp: 226506

Ion	Ratio	Lower	Upper
149	100		
91	74.6	61.0	91.4
206	20.5	16.1	24.1

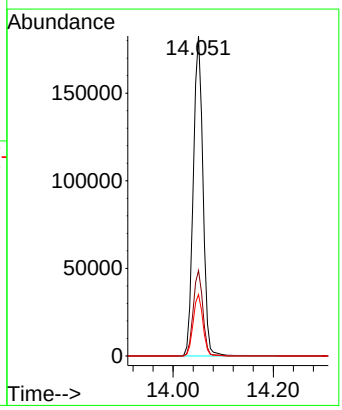


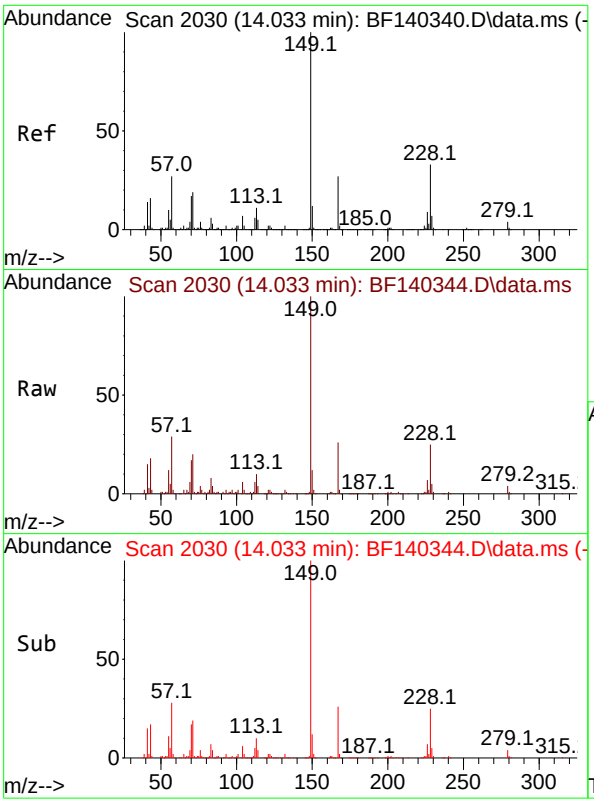


#81
Benzo(a)anthracene
Concen: 12.191 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.012 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:228 Resp: 243532

Ion	Ratio	Lower	Upper
228	100		
226	26.7	22.2	33.4
229	19.2	15.8	23.6



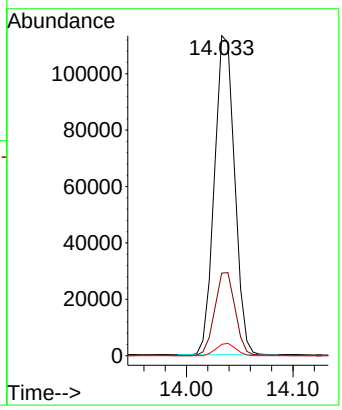


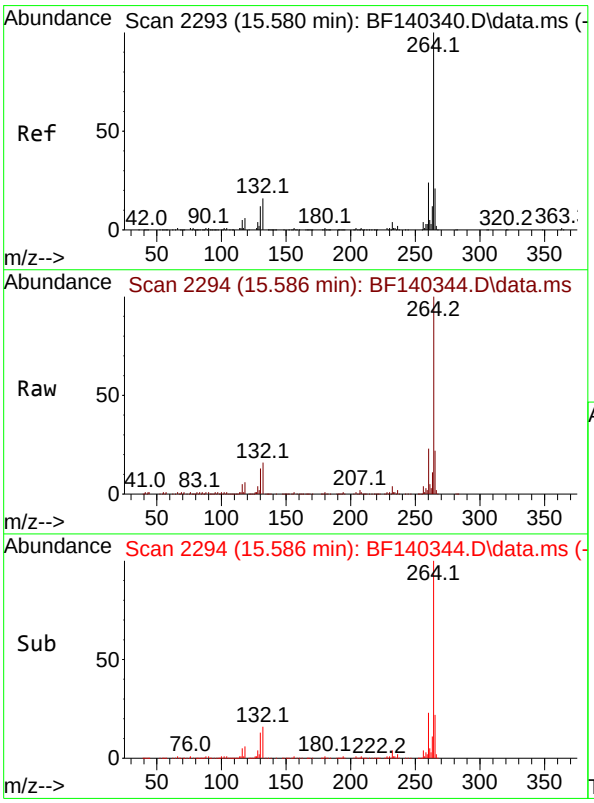
#84
Bis(2-ethylhexyl)phthalate
Concen: 11.197 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:149 Resp: 149258

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.4	32.0
279	3.6	3.0	4.6

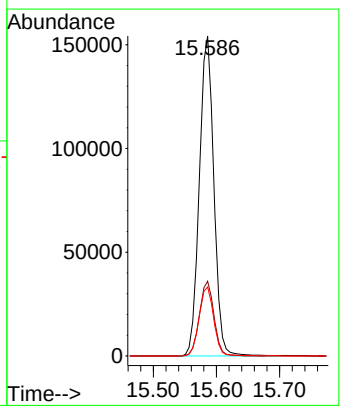


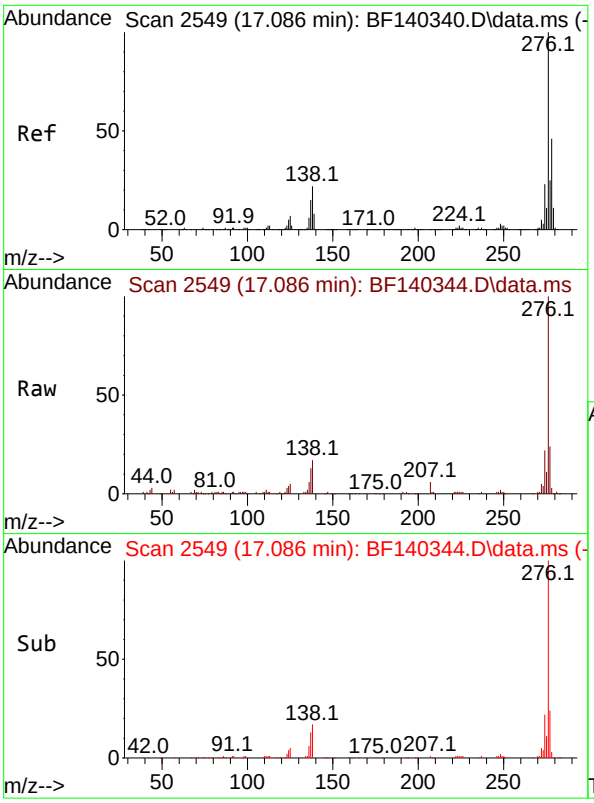


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.586 min Scan# 2294
Delta R.T. 0.029 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Tgt Ion:264 Resp: 245817

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.2	28.8
265	21.6	17.1	25.7



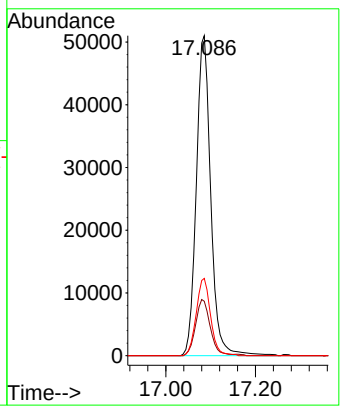


#87
Indeno(1,2,3-cd)pyrene
Concen: 7.490 ng
RT: 17.086 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF140344.D
Acq: 13 Nov 2024 16:02

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOILDL

Tgt Ion:276 Resp: 113732

Ion	Ratio	Lower	Upper
276	100		
138	17.8	18.8	28.2#
277	24.0	20.2	30.2



CALIBRATION SUMMARY

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024

Calibration Time(s): 10:27 13:46

LAB FILE ID: RRF2.5 = BF139844.D RRF005 = BF139845.D RRF010 = BF139846.D
RRF020 = BF139847.D RRF040 = BF139848.D RRF050 = BF139849.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.815	0.800	0.799	0.806	0.782	0.793	2.4
Pyridine		1.622	1.570	1.522	1.504	1.386	1.476	7.3
2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.278	10.1
Benzaldehyde			1.137	1.042	0.940	0.873	0.931	15.2
Aniline		1.673	1.649	1.618	1.582	1.471	1.542	8.1
Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.655	10.1
Phenol		1.952	1.832	1.760	1.712	1.583	1.706	9.2
bis(2-Chloroethyl)ether		1.470	1.423	1.359	1.294	1.251	1.319	7.8
2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.306	10.2
1,2-Dichlorobenzene		1.660	1.579	1.478	1.379	1.273	1.398	13.2
1,3-Dichlorobenzene		1.718	1.656	1.544	1.499	1.392	1.499	10.2
1,4-Dichlorobenzene		1.723	1.641	1.558	1.487	1.392	1.498	10.2
Benzyl Alcohol		1.355	1.299	1.257	1.213	1.154	1.214	8.1
2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.114	7.7
2,2-oxybis(1-Chloropropane)		2.524	2.409	2.353	2.255	2.117	2.248	8.7
Acetophenone		0.578	0.533	0.516	0.481	0.452	0.490	11.4
3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.424	12.4
n-Nitroso-di-n-propylamine	1.105	1.141	1.066	1.025	0.974	0.921	1.004	9.6
Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.361	2.9
Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.534	7.1
Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.396	4.1
Isophorone		0.755	0.709	0.702	0.679	0.652	0.685	5.9
2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.149	9.2
2,4-Dimethylphenol		0.285	0.259	0.256	0.248	0.237	0.249	8.1
bis(2-Chloroethoxy)methane		0.468	0.440	0.432	0.412	0.394	0.415	8.2
2,4-Dichlorophenol		0.308	0.297	0.293	0.283	0.272	0.283	6.2
1,2,4-Trichlorobenzene		0.351	0.331	0.325	0.315	0.298	0.314	7.7
Benzoic acid			0.175	0.207	0.220	0.231	0.217	10.7
Naphthalene		1.209	1.121	1.091	1.023	0.958	1.031	11.2
4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.352	9.3
Hexachlorobutadiene		0.224	0.206	0.203	0.197	0.185	0.197	8.0
Caprolactam		0.092	0.092	0.092	0.092	0.088	0.090	2.9
4-Chloro-3-methylphenol		0.341	0.328	0.324	0.315	0.299	0.314	6.0
2-Methylnaphthalene		0.740	0.689	0.666	0.621	0.587	0.632	11.1

All other compounds must meet a minimum RRF of 0.010.

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024

Calibration Time(s): 10:27 13:46

LAB FILE ID: RRF2.5 = BF139844.D RRF005 = BF139845.D RRF010 = BF139846.D
RRF020 = BF139847.D RRF040 = BF139848.D RRF050 = BF139849.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Hexachlorocyclopentadiene		0.185	0.193	0.198	0.198	0.186	0.188	5.3
2,4,6-Trichlorophenol		0.405	0.382	0.400	0.387	0.363	0.382	4.8
2-Fluorobiphenyl		1.512	1.396	1.280	1.162	1.088	1.210	16.0
2,4,5-Trichlorophenol		0.426	0.425	0.398	0.401	0.381	0.394	6.6
1,1-Biphenyl		1.640	1.536	1.483	1.379	1.285	1.392	12.2
2-Chloronaphthalene		1.288	1.225	1.164	1.111	1.048	1.121	10.0
2-Nitroaniline		0.299	0.318	0.353	0.365	0.354	0.343	7.2
Dimethylphthalate		1.410	1.344	1.283	1.237	1.172	1.246	8.6
Acenaphthylene		1.854	1.756	1.717	1.615	1.507	1.621	10.1
2,6-Dinitrotoluene		0.256	0.266	0.278	0.280	0.273	0.270	3.4
3-Nitroaniline		0.270	0.275	0.296	0.292	0.276	0.278	4.8
Acenaphthene		1.200	1.136	1.089	1.044	0.977	1.049	9.5
2,4-Dinitrophenol			0.056	0.077	0.101	0.101	0.093	23.9
4-Nitrophenol		0.187	0.207	0.225	0.232	0.219	0.214	6.8
Dibenzofuran		1.767	1.659	1.579	1.486	1.389	1.505	11.5
2,4-Dinitrotoluene		0.280	0.314	0.337	0.356	0.344	0.332	7.9
Diethylphthalate		1.366	1.308	1.267	1.214	1.165	1.223	8.0
4-Chlorophenyl-phenylether		0.698	0.638	0.617	0.569	0.526	0.579	13.1
Fluorene		1.409	1.309	1.201	1.110	1.029	1.146	14.7
4-Nitroaniline		0.249	0.259	0.270	0.275	0.263	0.263	3.6
4,6-Dinitro-2-methylphenol			0.055	0.072	0.087	0.090	0.082	18.6
n-Nitrosodiphenylamine		0.672	0.641	0.621	0.595	0.568	0.599	8.1
Azobenzene		1.459	1.385	1.355	1.306	1.216	1.297	8.6
2,4,6-Tribromophenol		0.201	0.196	0.193	0.188	0.179	0.187	5.5
4-Bromophenyl-phenylether		0.230	0.217	0.211	0.202	0.197	0.206	7.0
Hexachlorobenzene		0.258	0.245	0.237	0.231	0.217	0.232	7.2
Atrazine		0.189	0.175	0.156	0.175	0.135	0.162	11.4
Pentachlorophenol		0.118	0.137	0.148	0.152	0.145	0.141	8.0
Phenanthrene		1.121	1.035	0.994	0.933	0.863	0.945	11.8
Anthracene		1.082	1.014	0.972	0.913	0.851	0.922	11.5
Carbazole		1.002	0.964	0.923	0.846	0.776	0.857	12.6
Di-n-butylphthalate		1.104	1.071	1.062	1.014	0.923	0.990	9.8
Fluoranthene		1.149	1.108	1.036	0.943	0.842	0.955	15.3
Benzidine		0.457	0.461	0.293	0.366	0.276	0.329	30.9
Pyrene		1.892	1.828	1.900	1.805	1.685	1.751	8.4

All other compounds must meet a minimum RRF of 0.010.

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024

Calibration Time(s): 10:27 13:46

LAB FILE ID: RRF2.5 = BF139844.D RRF005 = BF139845.D RRF010 = BF139846.D
RRF020 = BF139847.D RRF040 = BF139848.D RRF050 = BF139849.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Terphenyl-d14		1.381	1.335	1.340	1.244	1.154	1.227	11.0
Butylbenzylphthalate		0.490	0.513	0.536	0.555	0.535	0.525	4.0
3,3-Dichlorobenzidine		0.368	0.372	0.390	0.387	0.374	0.380	2.2
Benzo(a)anthracene		1.425	1.355	1.329	1.331	1.267	1.302	6.5
Chrysene		1.325	1.244	1.234	1.167	1.134	1.194	6.5
Bis(2-ethylhexyl)phthalate		0.520	0.539	0.577	0.626	0.620	0.589	7.5
Di-n-octyl phthalate			0.786	0.930	1.135	1.182	1.071	16.1
Benzo(b)fluoranthene		1.317	1.240	1.319	1.196	1.105	1.218	7.1
Benzo(k)fluoranthene		1.213	1.177	0.992	1.066	1.030	1.051	10.4
Benzo(a)pyrene		1.030	1.024	1.018	1.025	0.974	1.002	3.1
Indeno(1,2,3-cd)pyrene		1.209	1.261	1.307	1.352	1.299	1.287	3.8
Dibenzo(a,h)anthracene		1.021	1.064	1.103	1.120	1.083	1.073	3.3
Benzo(g,h,i)perylene		1.030	1.046	1.090	1.128	1.081	1.072	3.4
1,2,4,5-Tetrachlorobenzene		0.609	0.579	0.562	0.537	0.512	0.540	8.7
1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.596	5.7
2,3,4,6-Tetrachlorophenol		0.334	0.322	0.326	0.310	0.296	0.309	6.3
1-Methylnaphthalene		0.726	0.683	0.655	0.612	0.569	0.620	11.5

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF1398
51.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.581	0.548	0.596	5.74
3)		Pyridine		1.622	1.570	1.522	1.504	1.386	1.406	1.326	1.476	7.26
4)		n-Nitrosodimet...		0.815	0.800	0.799	0.806	0.782	0.794	0.757	0.793	2.39
5)	S	2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.186	1.106	1.278	10.10
6)		Aniline		1.673	1.649	1.618	1.582	1.471	1.479	1.324	1.542	8.05
7)	S	Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.539	1.432	1.655	10.06
8)		2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.221	1.116	1.306	10.24
9)		Benzaldehyde			1.137	1.042	0.940	0.873	0.853	0.740	0.931	15.22
10)	C	Phenol		1.952	1.832	1.760	1.712	1.583	1.601	1.502	1.706	9.19
11)		bis(2-Chloroet...		1.470	1.423	1.359	1.294	1.251	1.249	1.183	1.319	7.82
12)		1,3-Dichlorobe...		1.718	1.656	1.544	1.499	1.392	1.391	1.294	1.499	10.19
13)	C	1,4-Dichlorobe...		1.723	1.641	1.558	1.487	1.392	1.391	1.291	1.498	10.19
14)		1,2-Dichlorobe...		1.660	1.579	1.478	1.379	1.273	1.267	1.149	1.398	13.15
15)		Benzyl Alcohol		1.355	1.299	1.257	1.213	1.154	1.146	1.071	1.214	8.07
16)		2,2'-oxybis(1-...		2.524	2.409	2.353	2.255	2.117	2.115	1.964	2.248	8.69
17)		2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.063	1.004	1.114	7.69
18)		Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.511	0.477	0.534	7.06
19)	P	n-Nitroso-di-n...	1.105	1.141	1.066	1.025	0.974	0.921	0.927	0.869	1.004	9.63
20)		3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.300	1.173	1.424	12.41
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.578	0.533	0.516	0.481	0.452	0.454	0.414	0.490	11.43
23)	S	Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.357	0.342	0.361	2.92
24)		Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.388	0.370	0.396	4.10
25)		Isophorone		0.755	0.709	0.702	0.679	0.652	0.660	0.637	0.685	5.90
26)	C	2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.161	0.157	0.149	9.22
27)		2,4-Dimethylph...		0.285	0.259	0.256	0.248	0.237	0.234	0.223	0.249	8.07
28)		bis(2-Chloroet...		0.468	0.440	0.432	0.412	0.394	0.390	0.369	0.415	8.22
29)	C	2,4-Dichloroph...		0.308	0.297	0.293	0.283	0.272	0.274	0.257	0.283	6.17
30)		1,2,4-Trichlor...		0.351	0.331	0.325	0.315	0.298	0.298	0.279	0.314	7.68
31)		Naphthalene		1.209	1.121	1.091	1.023	0.958	0.944	0.875	1.031	11.23
32)		Benzoic acid			0.175	0.207	0.220	0.231	0.235	0.235	0.217	10.69
33)		4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.326	0.306	0.352	9.26
34)	C	Hexachlorobuta...		0.224	0.206	0.203	0.197	0.185	0.187	0.177	0.197	7.96
35)		Caprolactam		0.092	0.092	0.092	0.092	0.088	0.088	0.086	0.090	2.85
36)	C	4-Chloro-3-met...		0.341	0.328	0.324	0.315	0.299	0.303	0.287	0.314	6.03
37)		2-Methylnaphth...		0.740	0.689	0.666	0.621	0.587	0.583	0.537	0.632	11.11
38)		1-Methylnaphth...		0.726	0.683	0.655	0.612	0.569	0.567	0.526	0.620	11.55

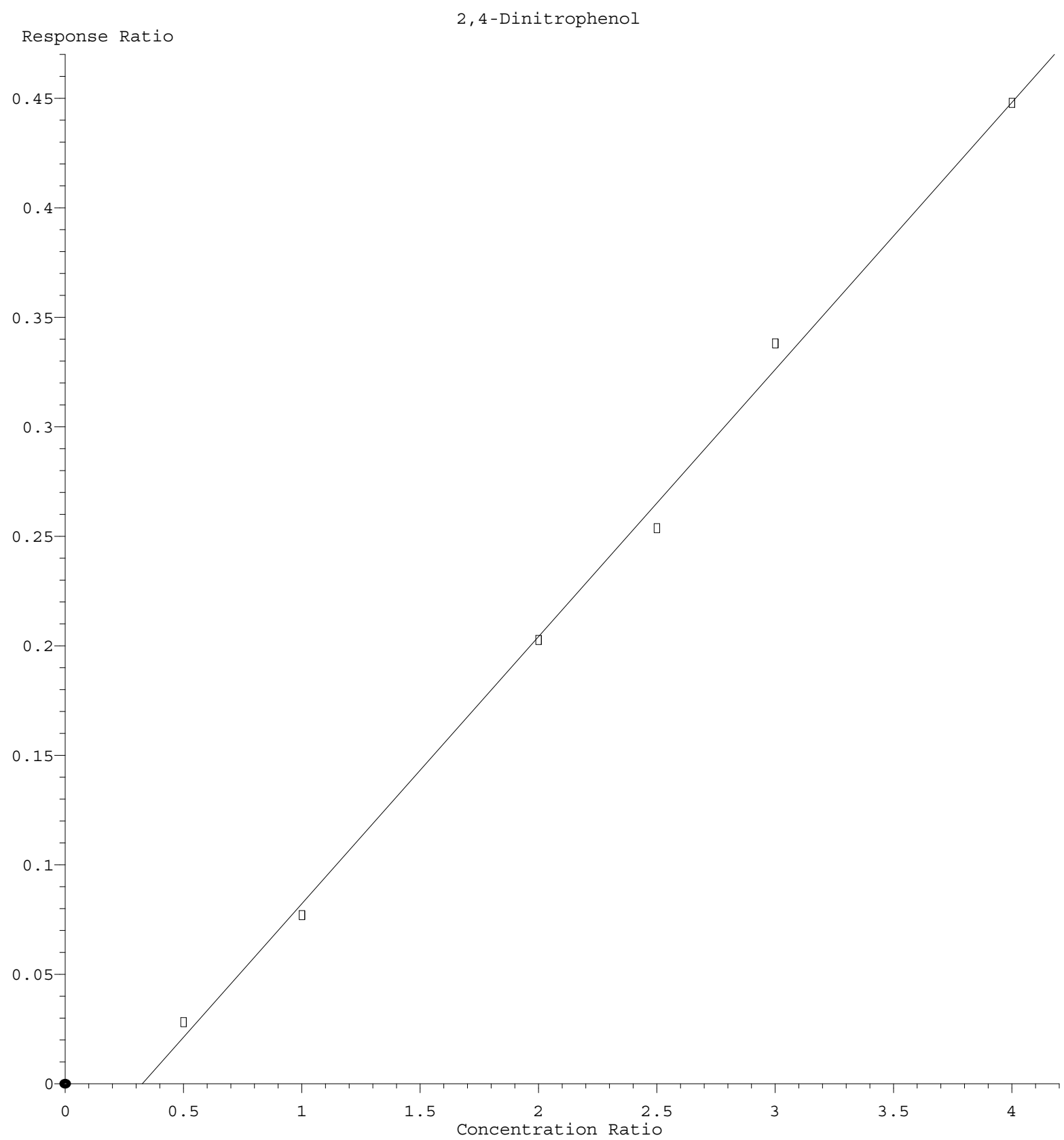
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.579	0.562	0.537	0.512	0.506	0.472	0.540	8.72
41)	P	Hexachlorocycl...	0.185	0.193	0.198	0.198	0.186	0.185	0.169	0.188	5.28
42)	S	2,4,6-Tribromo...	0.201	0.196	0.193	0.188	0.179	0.180	0.173	0.187	5.47
43)	C	2,4,6-Trichlor...	0.405	0.382	0.400	0.387	0.363	0.383	0.354	0.382	4.80
44)		2,4,5-Trichlor...	0.426	0.425	0.398	0.401	0.381	0.369	0.359	0.394	6.58
45)	S	2-Fluorobiphenyl	1.512	1.396	1.280	1.162	1.088	1.060	0.973	1.210	16.05
46)		1,1'-Biphenyl	1.640	1.536	1.483	1.379	1.285	1.262	1.161	1.392	12.18
47)		2-Chloronaphth...	1.288	1.225	1.164	1.111	1.048	1.040	0.973	1.121	9.95
48)		2-Nitroaniline	0.299	0.318	0.353	0.365	0.354	0.362	0.349	0.343	7.20
49)		Acenaphthylene	1.854	1.756	1.717	1.615	1.507	1.505	1.394	1.621	10.06
50)		Dimethylphthalate	1.410	1.344	1.283	1.237	1.172	1.163	1.110	1.246	8.60
51)		2,6-Dinitrotol...	0.256	0.266	0.278	0.280	0.273	0.274	0.260	0.270	3.41
52)	C	Acenaphthene	1.200	1.136	1.089	1.044	0.977	0.983	0.913	1.049	9.55
53)		3-Nitroaniline	0.270	0.275	0.296	0.292	0.276	0.282	0.256	0.278	4.84
54)	P	2,4-Dinitrophenol		0.056	0.077	0.101	0.101	0.113	0.112	0.093	23.89
55)		Dibenzofuran	1.767	1.659	1.579	1.486	1.389	1.375	1.278	1.505	11.52
56)	P	4-Nitrophenol	0.187	0.207	0.225	0.232	0.219	0.220	0.208	0.214	6.84
57)		2,4-Dinitrotol...	0.280	0.314	0.337	0.356	0.344	0.351	0.338	0.332	7.94
58)		Fluorene	1.409	1.309	1.201	1.110	1.029	1.021	0.944	1.146	14.68
59)		2,3,4,6-Tetrac...	0.334	0.322	0.326	0.310	0.296	0.293	0.281	0.309	6.33
60)		Diethylphthalate	1.366	1.308	1.267	1.214	1.165	1.161	1.080	1.223	7.99
61)		4-Chlorophenyl...	0.698	0.638	0.617	0.569	0.526	0.520	0.484	0.579	13.14
62)		4-Nitroaniline	0.249	0.259	0.270	0.275	0.263	0.269	0.254	0.263	3.65
63)		Azobenzene	1.459	1.385	1.355	1.306	1.216	1.212	1.143	1.297	8.62
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.055	0.072	0.087	0.090	0.092	0.093	0.082	18.60
66)	c	n-Nitrosodiphe...	0.672	0.641	0.621	0.595	0.568	0.561	0.533	0.599	8.14
67)		4-Bromophenyl-...	0.230	0.217	0.211	0.202	0.197	0.196	0.189	0.206	6.98
68)		Hexachlorobenzene	0.258	0.245	0.237	0.231	0.217	0.221	0.212	0.232	7.20
69)		Atrazine	0.189	0.175	0.156	0.175	0.135	0.153	0.151	0.162	11.36
70)	C	Pentachlorophenol	0.118	0.137	0.148	0.152	0.145	0.144	0.140	0.141	8.04
71)		Phenanthrene	1.121	1.035	0.994	0.933	0.863	0.860	0.807	0.945	11.79
72)		Anthracene	1.082	1.014	0.972	0.913	0.851	0.833	0.787	0.922	11.53
73)		Carbazole	1.002	0.964	0.923	0.846	0.776	0.772	0.717	0.857	12.64
74)		Di-n-butylphth...	1.104	1.071	1.062	1.014	0.923	0.909	0.850	0.990	9.77
75)	C	Fluoranthene	1.149	1.108	1.036	0.943	0.842	0.835	0.772	0.955	15.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.457	0.461	0.293	0.366	0.276	0.203	0.246	0.329	30.86
78)		Pyrene	1.892	1.828	1.900	1.805	1.685	1.649	1.496	1.751	8.43
79)	S	Terphenyl-d14	1.381	1.335	1.340	1.244	1.154	1.121	1.018	1.227	10.96
80)		Butylbenzylpht...	0.490	0.513	0.536	0.555	0.535	0.531	0.514	0.525	3.99
81)		Benzo(a)anthra...	1.425	1.355	1.329	1.331	1.267	1.237	1.169	1.302	6.48
82)		3,3'-Dichlorob...	0.368	0.372	0.390	0.387	0.374	0.382	0.384	0.380	2.15
83)		Chrysene	1.325	1.244	1.234	1.167	1.134	1.151	1.101	1.194	6.52
84)		Bis(2-ethylhex...	0.520	0.539	0.577	0.626	0.620	0.626	0.614	0.589	7.48
85)	c	Di-n-octyl pht...		0.786	0.930	1.135	1.182	1.207	1.186	1.071	16.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.261	1.307	1.352	1.299	1.326	1.253	1.287	3.77
88)		Benzo(b)fluora...	1.317	1.240	1.319	1.196	1.105	1.239	1.111	1.218	7.15
89)		Benzo(k)fluora...	1.213	1.177	0.992	1.066	1.030	0.929	0.947	1.051	10.42
90)	C	Benzo(a)pyrene	1.030	1.024	1.018	1.025	0.974	0.999	0.947	1.002	3.12
91)		Dibenzo(a,h)an...	1.021	1.064	1.103	1.120	1.083	1.085	1.036	1.073	3.31
92)		Benzo(g,h,i)pe...	1.030	1.046	1.090	1.128	1.081	1.095	1.035	1.072	3.37

(#) = Out of Range



Response = 1.220e-001 * Amt - 3.983e-002
Coef of Det (r^2) = 0.997175 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF101824.M
Calibration Table Last Updated: Fri Oct 18 15:07:50 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139844.D
Acq On : 18 Oct 2024 10:27
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Oct 18 14:15:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	190003	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	748539	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	423999	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	760140	20.000	ng	0.00
76) Chrysene-d12	14.051	240	519381	20.000	ng	0.00
86) Perylene-d12	15.527	264	410408	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...	7.287	70	26252	2.754	ng	94

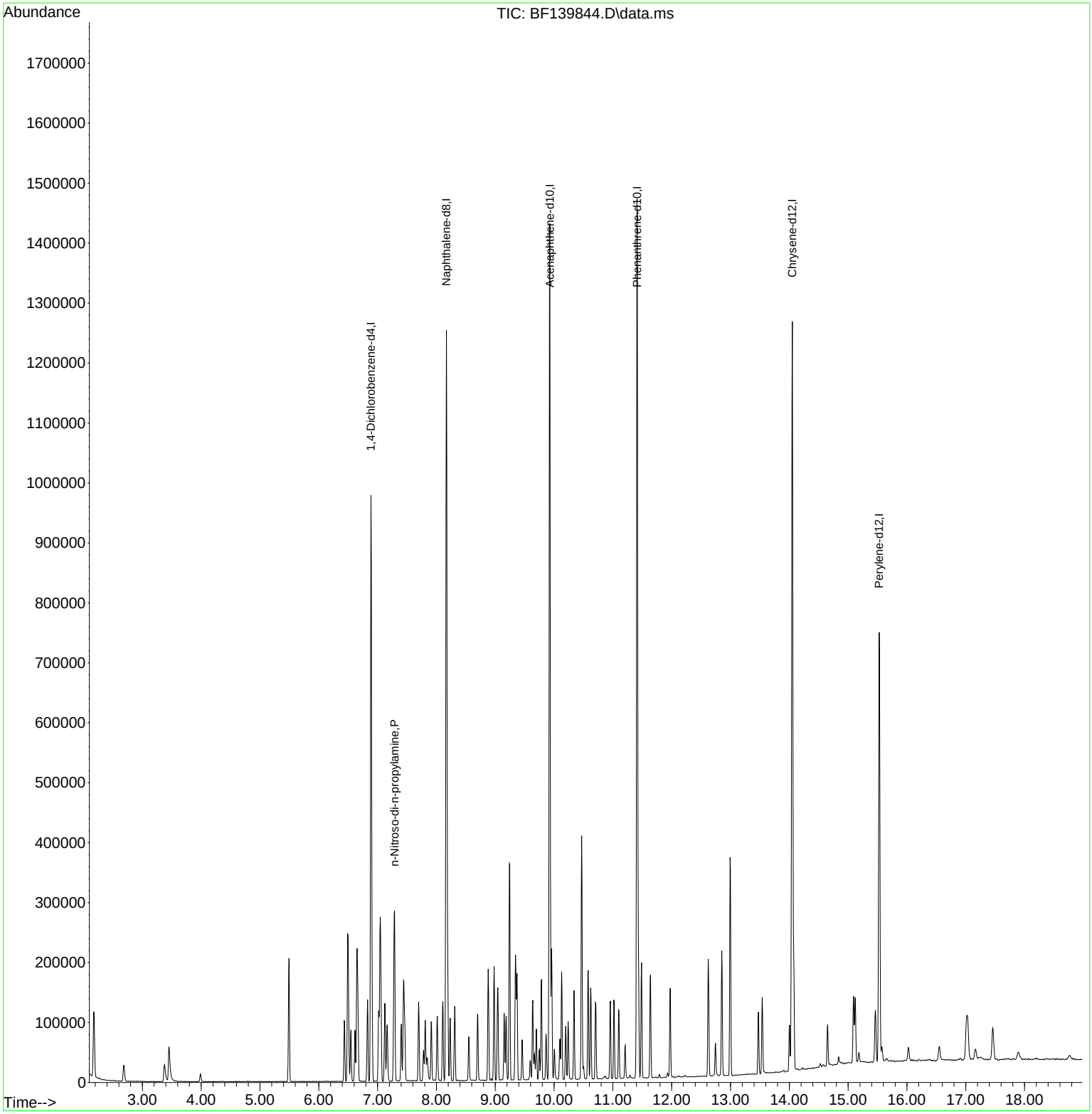
(#) = qualifier out of range (m) = manual integration (+) = signals summed

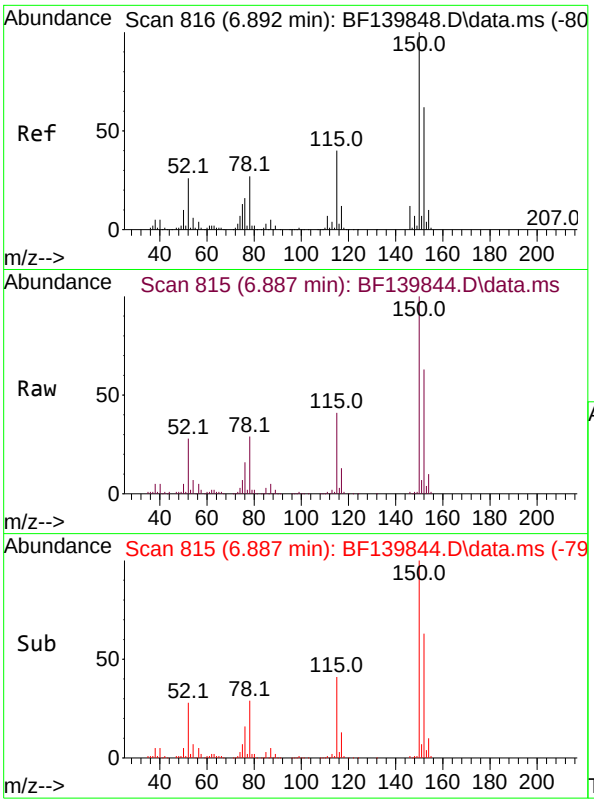
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139844.D
Acq On : 18 Oct 2024 10:27
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Oct 18 14:15:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



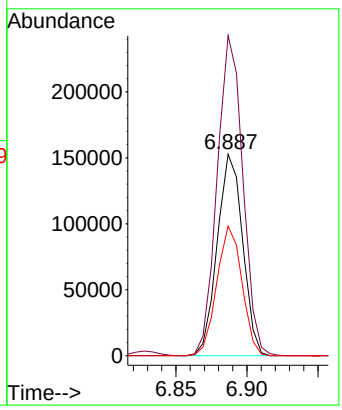


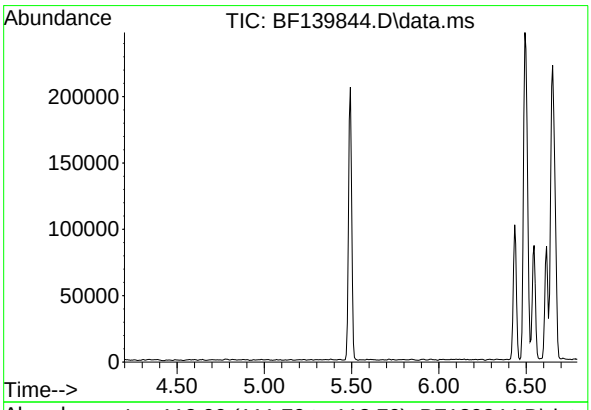
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 190003

Ion	Ratio	Lower	Upper
152	100		
150	158.9	130.2	195.2
115	64.4	51.4	77.2



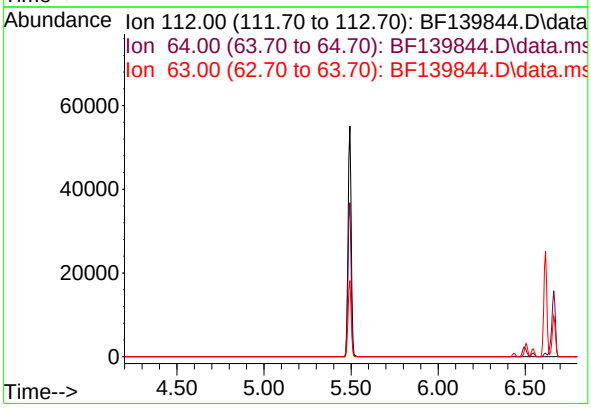


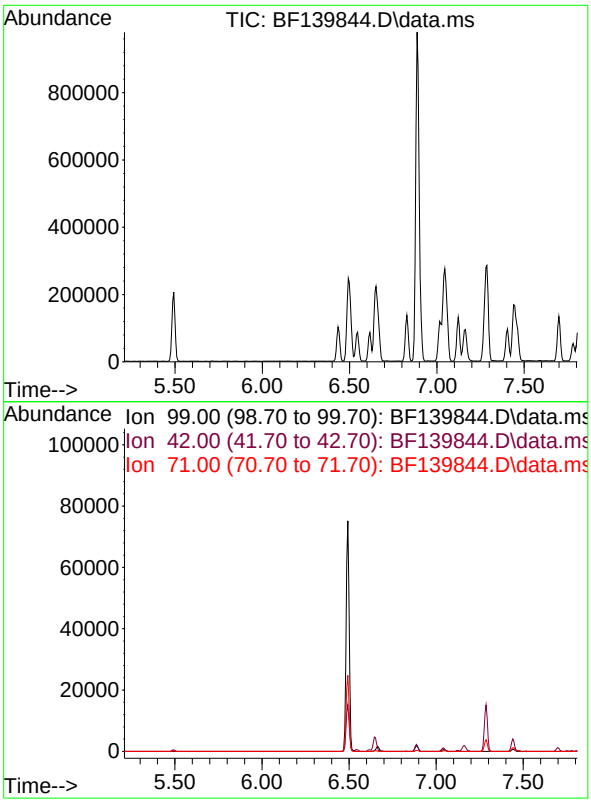
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.50 min

Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	66.3
63	33.7





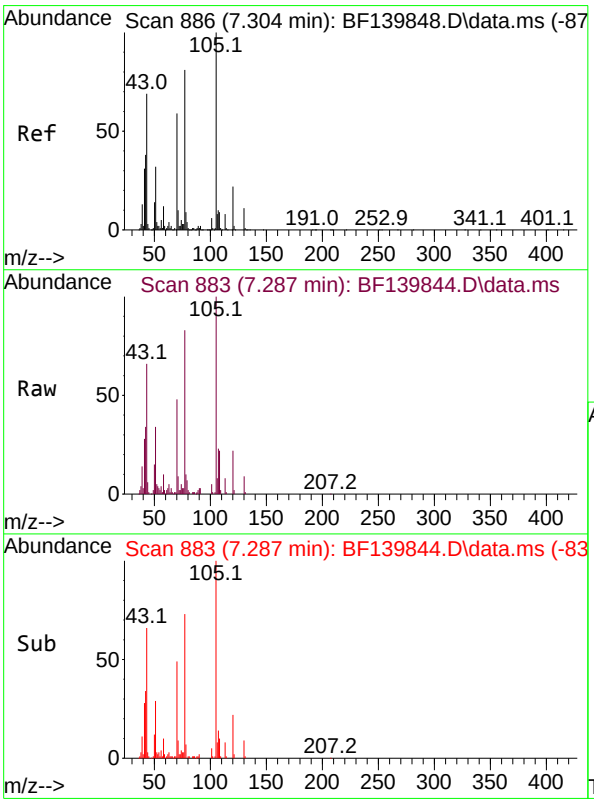
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.51 min

Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

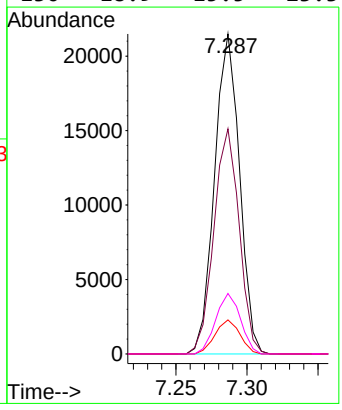
Sig	Exp Ratio
99	100
42	20.9
71	34.6

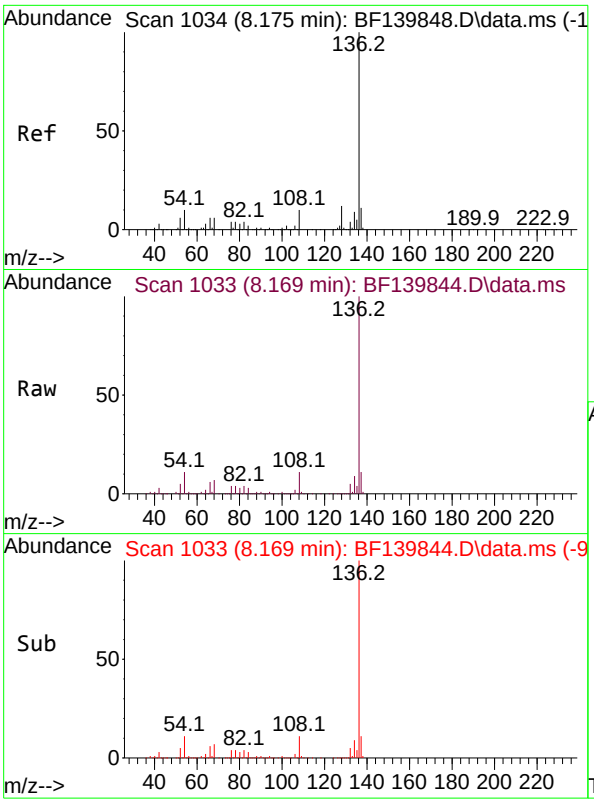


#19
n-Nitroso-di-n-propylamine
Concen: 2.754 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.017 min
Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Tgt Ion: 70 Resp: 26252

Ion	Ratio	Lower	Upper
70	100		
42	70.4	51.5	77.3
101	10.6	7.5	11.3
130	18.9	15.5	23.3



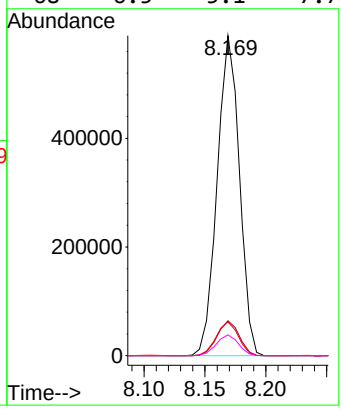


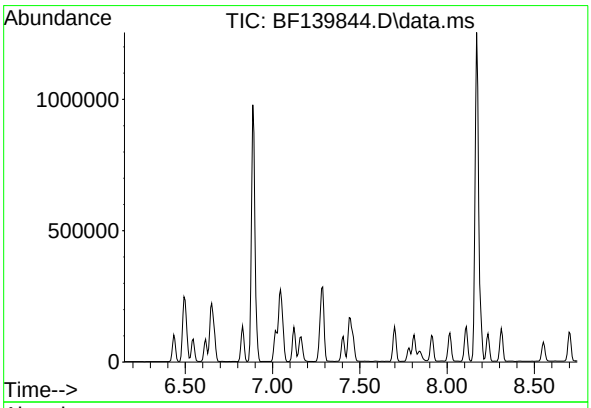
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 748539

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.6	8.4	12.6
68	6.5	5.1	7.7



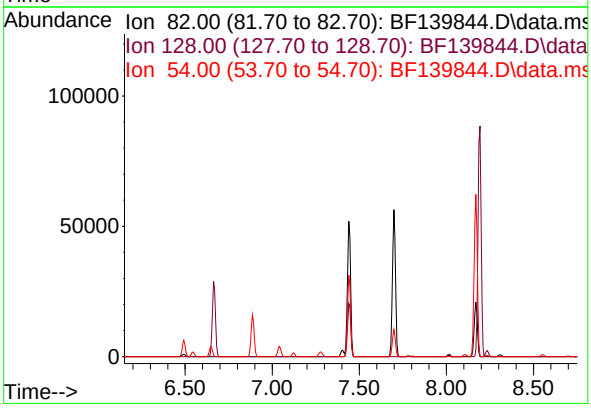


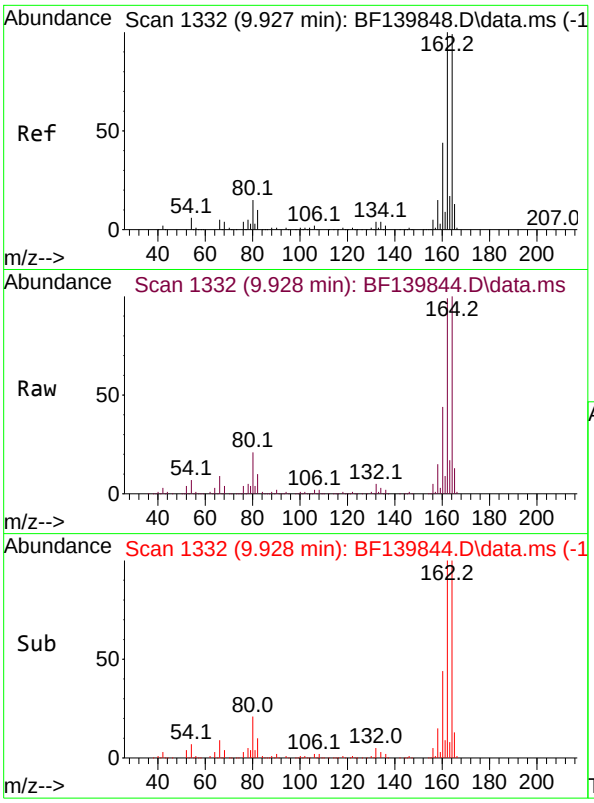
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.45 min

Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	41.7
54	59.8



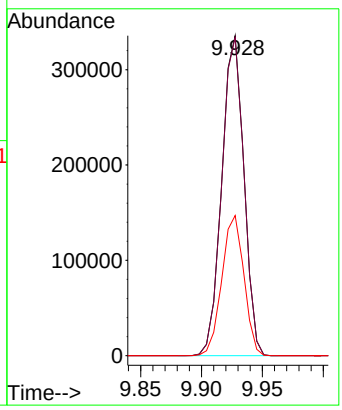


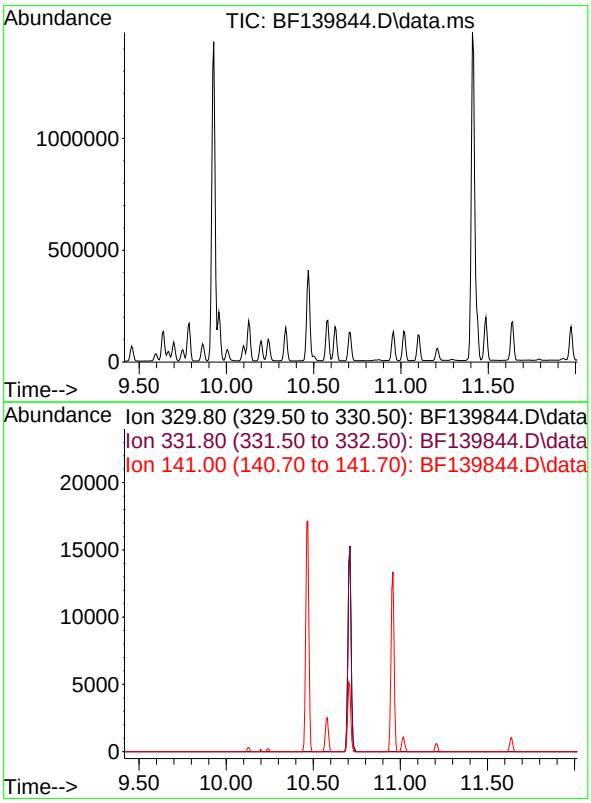
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 423999

Ion	Ratio	Lower	Upper
164	100		
162	99.5	81.0	121.4
160	43.8	35.4	53.0



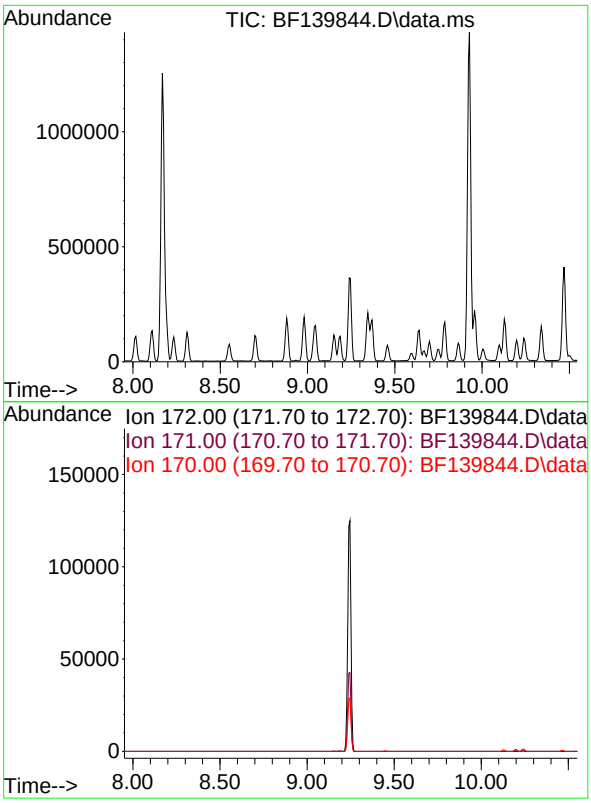


#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.72 min

Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	97.6
141	33.2



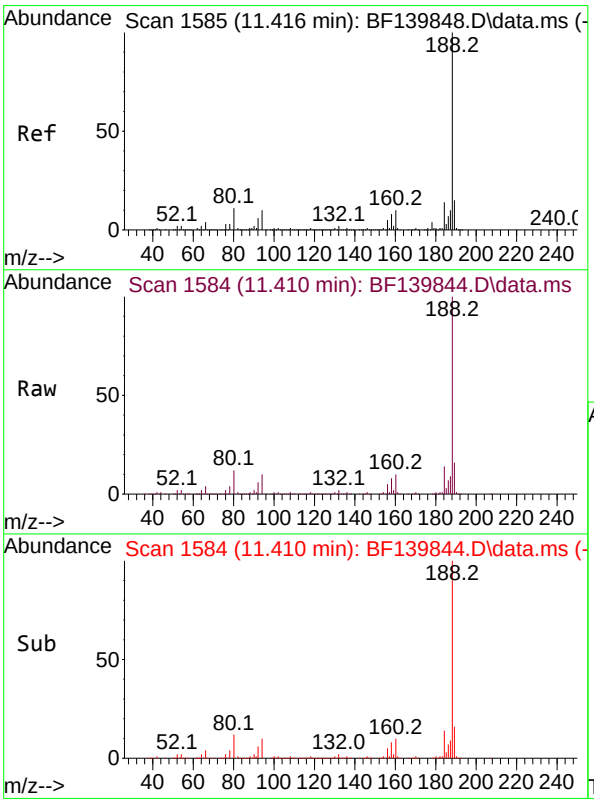
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.25 min

Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

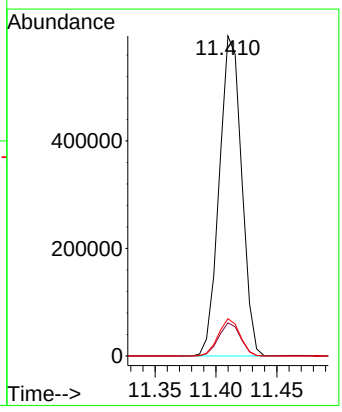
Sig	Exp Ratio
172	100
171	35.8
170	23.9

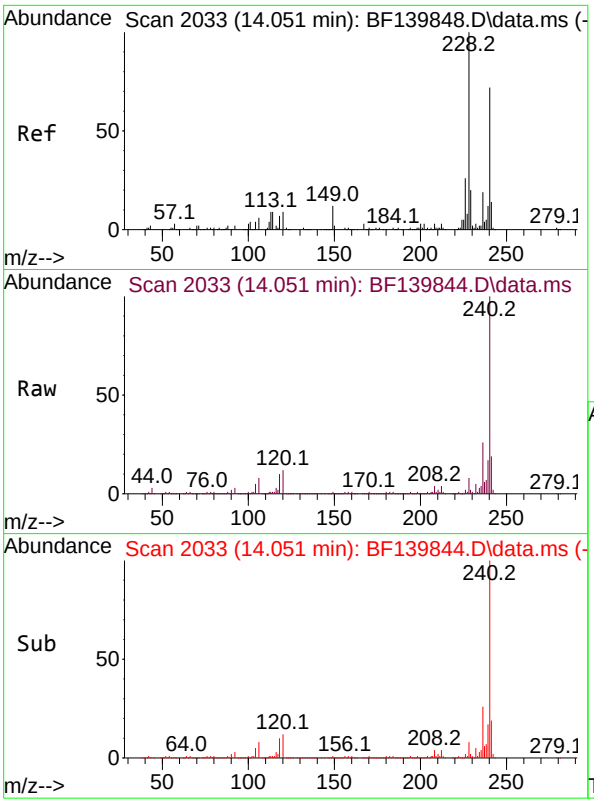


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Tgt Ion:188 Resp: 760140

Ion	Ratio	Lower	Upper
188	100		
94	10.4	7.9	11.9
80	11.6	9.0	13.4



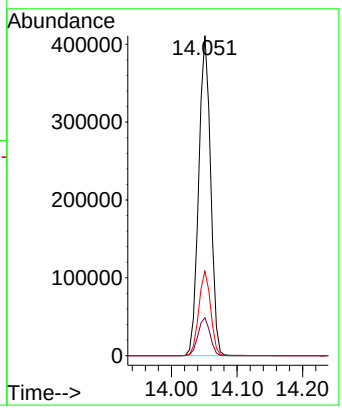


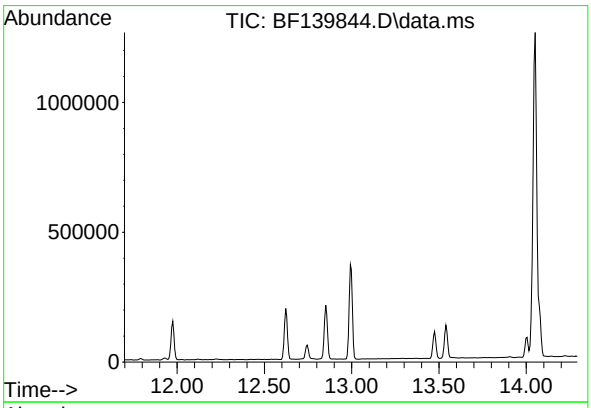
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 519381

Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.4	14.2
236	26.4	20.9	31.3



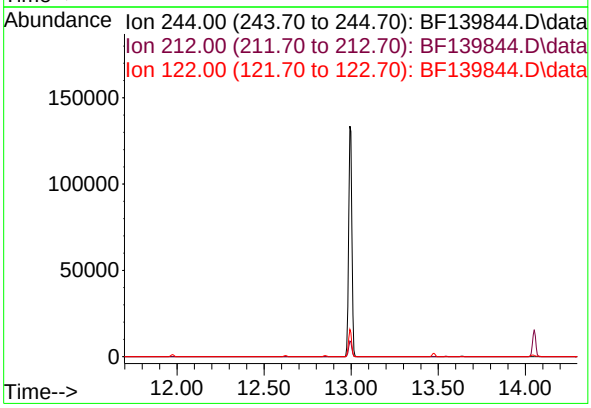


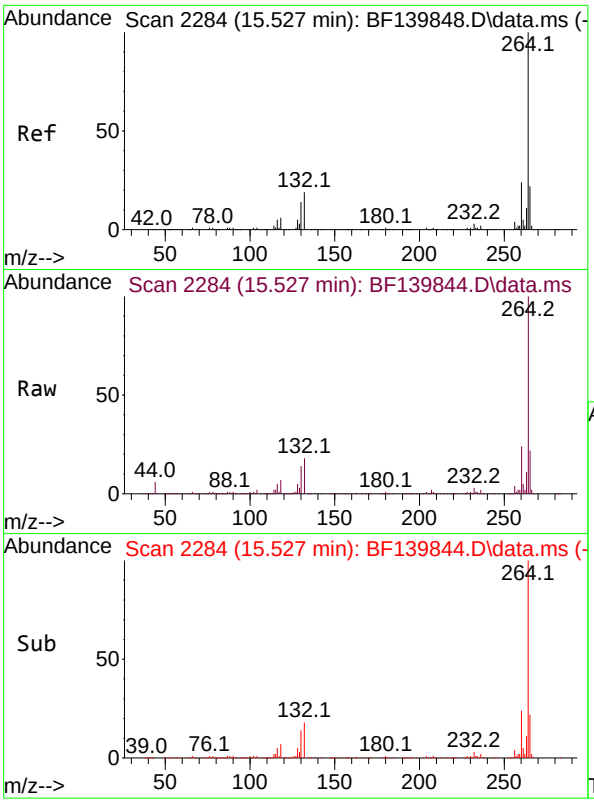
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 13.00 min

Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.1
122	10.8



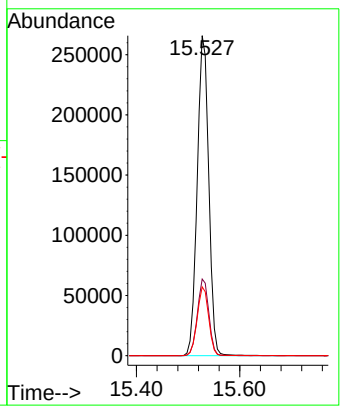


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139844.D
Acq: 18 Oct 2024 10:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 410408

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	21.5	17.4	26.0



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139845.D
Acq On : 18 Oct 2024 10:55
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Oct 18 14:16:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	189112	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	737062	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	414324	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	741430	20.000	ng		0.00
76) Chrysene-d12	14.051	240	477223	20.000	ng		0.00
86) Perylene-d12	15.527	264	377685	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	138495	11.465	ng		0.00
7) Phenol-d6	6.493	99	179648	11.482	ng		-0.02
23) Nitrobenzene-d5	7.445	82	134439	10.109	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	41682	10.755	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	313171	12.492	ng		0.00
79) Terphenyl-d14	12.992	244	329424	11.248	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.687	88	30759	5.461	ng		97
3) Pyridine	3.452	79	76703	5.494	ng		98
4) n-Nitrosodimethylamine	3.375	42	38552	5.140	ng	#	96
6) Aniline	6.545	93	79083	5.424	ng		98
8) 2-Chlorophenol	6.669	128	71065	5.754	ng		98
10) Phenol	6.510	94	92287	5.620	ng		95
11) bis(2-Chloroethyl)ether	6.616	93	69504	5.575	ng		98
12) 1,3-Dichlorobenzene	6.828	146	81239	5.731	ng		99
13) 1,4-Dichlorobenzene	6.904	146	81442	5.750	ng		99
14) 1,2-Dichlorobenzene	7.057	146	78458	5.936	ng		97
15) Benzyl Alcohol	7.016	79	64060	5.582	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	119350	5.614	ng		100
17) 2-Methylphenol	7.122	107	59770	5.676	ng		96
18) Hexachloroethane	7.404	117	27566	5.458	ng		96
19) n-Nitroso-di-n-propyla...	7.287	70	53958	5.686	ng		97
20) 3+4-Methylphenols	7.275	107	79329	5.890	ng		92
22) Acetophenone	7.287	105	106522	5.900	ng		98
24) Nitrobenzene	7.463	77	76831	5.269	ng		96
25) Isophorone	7.698	82	139084	5.510	ng		100
26) 2-Nitrophenol	7.781	139	22867	4.157	ng		95
27) 2,4-Dimethylphenol	7.810	122	52430	5.716	ng		97
28) bis(2-Chloroethoxy)met...	7.916	93	86298	5.643	ng		99
29) 2,4-Dichlorophenol	8.016	162	56772	5.434	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	64640	5.592	ng		99
31) Naphthalene	8.192	128	222725	5.859	ng		99
33) 4-Chloroaniline	8.234	127	73196	5.647	ng		99
34) Hexachlorobutadiene	8.310	225	41186	5.670	ng		97
35) Caprolactam	8.557	113	16989	5.114	ng		98
36) 4-Chloro-3-methylphenol	8.704	107	62903	5.438	ng		99
37) 2-Methylnaphthalene	8.881	142	136292	5.854	ng		99
38) 1-Methylnaphthalene	8.981	142	133747	5.856	ng		100
40) 1,2,4,5-Tetrachloroben...	9.045	216	63046	5.640	ng		100
41) Hexachlorocyclopentadiene	9.039	237	19121	4.916	ng		97
43) 2,4,6-Trichlorophenol	9.151	196	41997	5.307	ng		98
44) 2,4,5-Trichlorophenol	9.187	196	44086	5.399	ng		99
46) 1,1'-Biphenyl	9.345	154	169920	5.891	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139845.D
Acq On : 18 Oct 2024 10:55
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Oct 18 14:16:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 2-Chloronaphthalene	9.369	162	133456	5.745	ng		99
48) 2-Nitroaniline	9.457	65	30999	4.363	ng		99
49) Acenaphthylene	9.786	152	192014	5.717	ng		99
50) Dimethylphthalate	9.639	163	146096	5.661	ng		100
51) 2,6-Dinitrotoluene	9.698	165	26490	4.741	ng		96
52) Acenaphthene	9.957	154	124288	5.721	ng		100
53) 3-Nitroaniline	9.863	138	27995	4.858	ng	#	94
55) Dibenzofuran	10.128	168	182985	5.870	ng		98
56) 4-Nitrophenol	10.004	139	19402	4.376	ng		89
57) 2,4-Dinitrotoluene	10.098	165	29038	4.226	ng		92
58) Fluorene	10.469	166	145913	6.146	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	34636	5.411	ng		97
60) Diethylphthalate	10.339	149	141466	5.583	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	72331	6.033	ng		96
62) 4-Nitroaniline	10.469	138	25747	4.731	ng		96
63) Azobenzene	10.622	77	151158	5.627	ng		99
66) n-Nitrosodiphenylamine	10.581	169	124472	5.609	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	42707	5.591	ng		94
68) Hexachlorobenzene	11.016	284	47895	5.575	ng		98
69) Atrazine	11.104	200	35075	5.835	ng		99
70) Pentachlorophenol	11.210	266	21781	4.178	ng		93
71) Phenanthrene	11.433	178	207716	5.931	ng		98
72) Anthracene	11.486	178	200621	5.871	ng		99
73) Carbazole	11.639	167	185743	5.845	ng		99
74) Di-n-butylphthalate	11.975	149	204647	5.574	ng		99
75) Fluoranthene	12.622	202	213038	6.017	ng		100
77) Benzidine	12.745	184	54501	7.022	ng		99
78) Pyrene	12.851	202	225742	5.404	ng		99
80) Butylbenzylphthalate	13.474	149	58502	4.671	ng		100
81) Benzo(a)anthracene	14.039	228	170026	5.473	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	43937	4.851	ng		100
83) Chrysene	14.074	228	158121	5.551	ng		98
84) Bis(2-ethylhexyl)phtha...	14.033	149	62085	4.419	ng		97
87) Indeno(1,2,3-cd)pyrene	17.010	276	114185	4.699	ng		98
88) Benzo(b)fluoranthene	15.092	252	124353	5.405	ng		100
89) Benzo(k)fluoranthene	15.121	252	114525	5.772	ng		99
90) Benzo(a)pyrene	15.463	252	97243	5.137	ng		100
91) Dibenzo(a,h)anthracene	17.033	278	96416	4.757	ng		99
92) Benzo(g,h,i)perylene	17.457	276	97292	4.805	ng		99

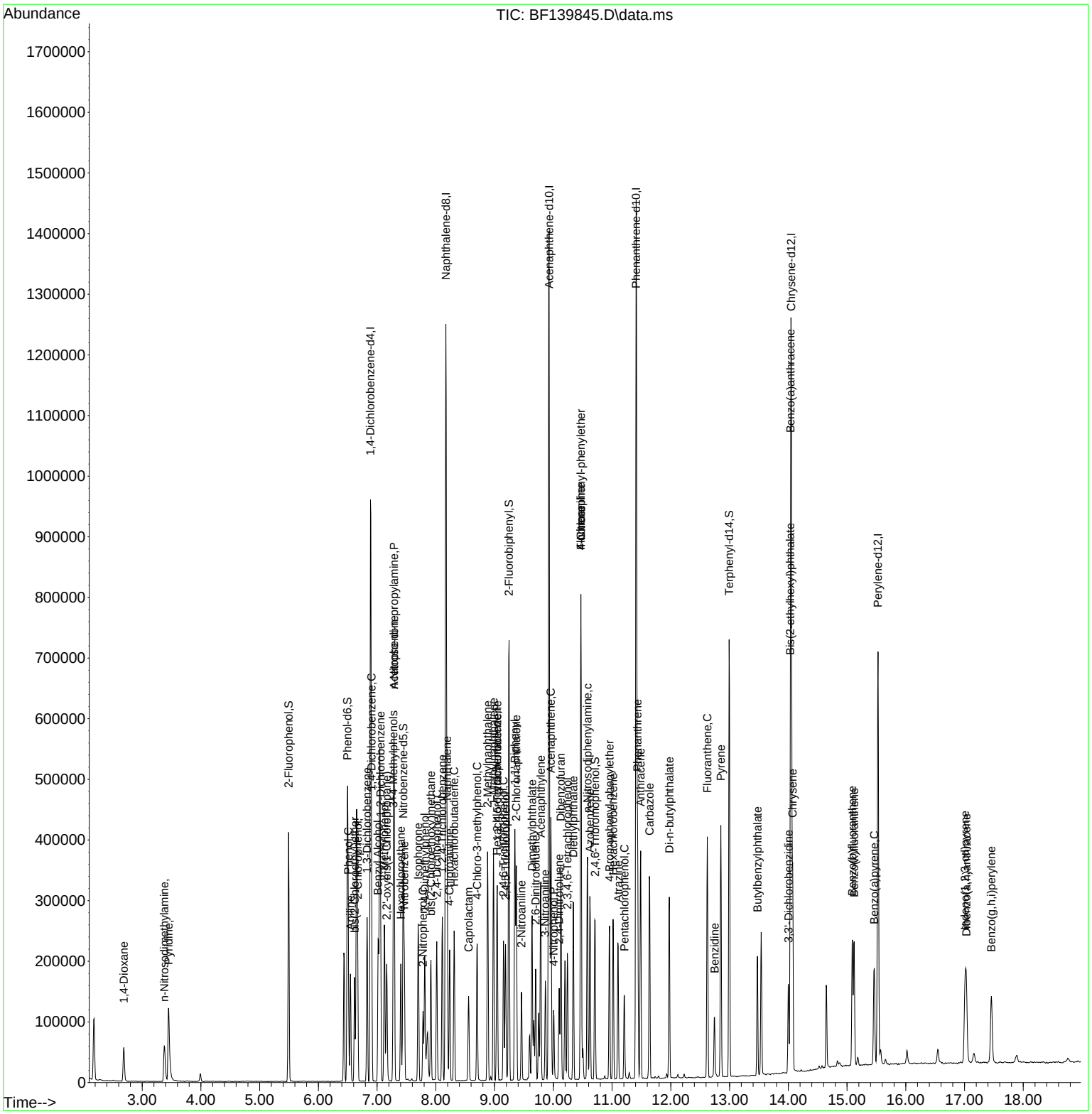
(#) = qualifier out of range (m) = manual integration (+) = signals summed

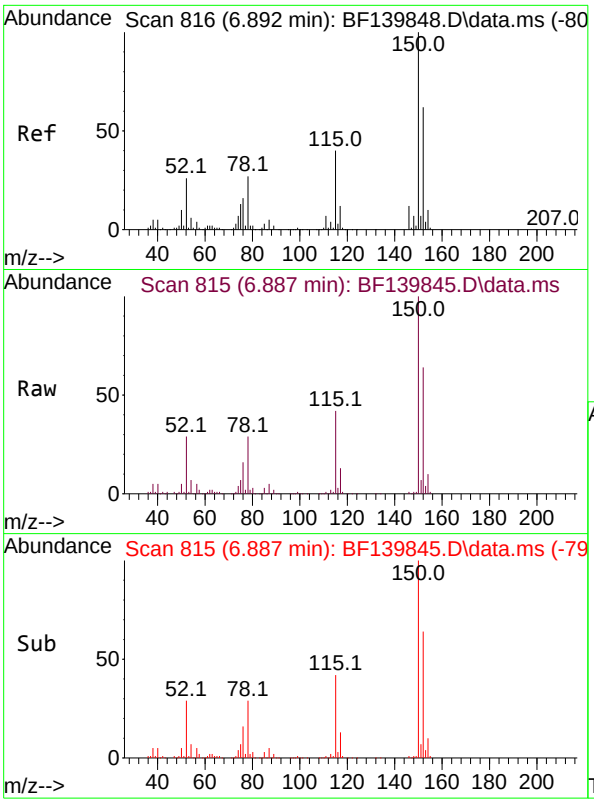
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139845.D
Acq On : 18 Oct 2024 10:55
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Oct 18 14:16:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



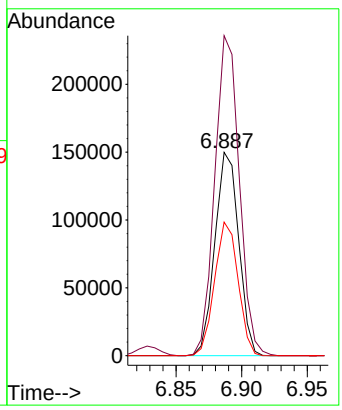


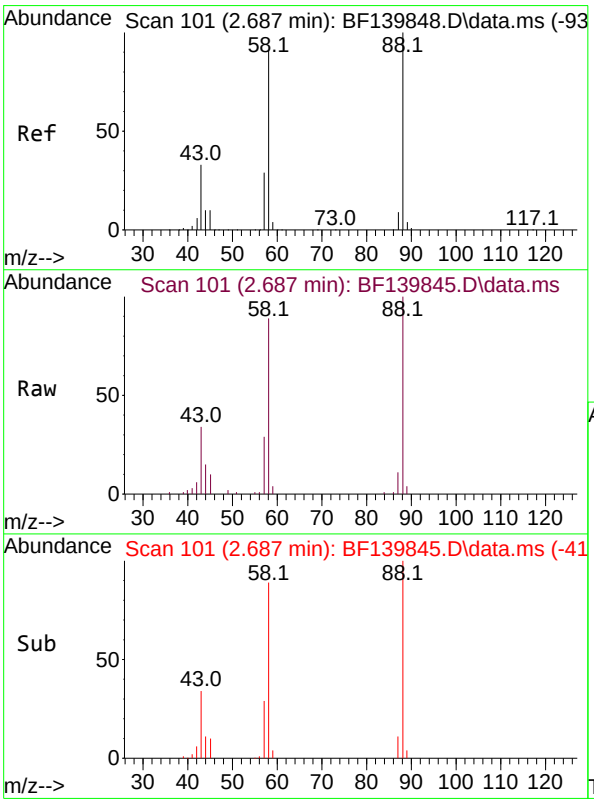
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 189112

Ion	Ratio	Lower	Upper
152	100		
150	157.4	130.2	195.2
115	65.7	51.4	77.2

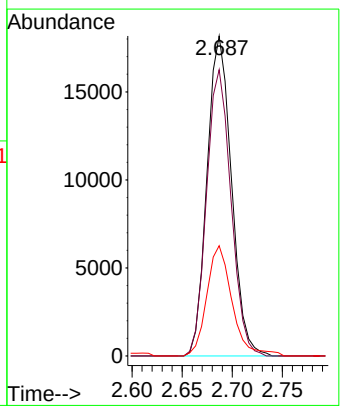


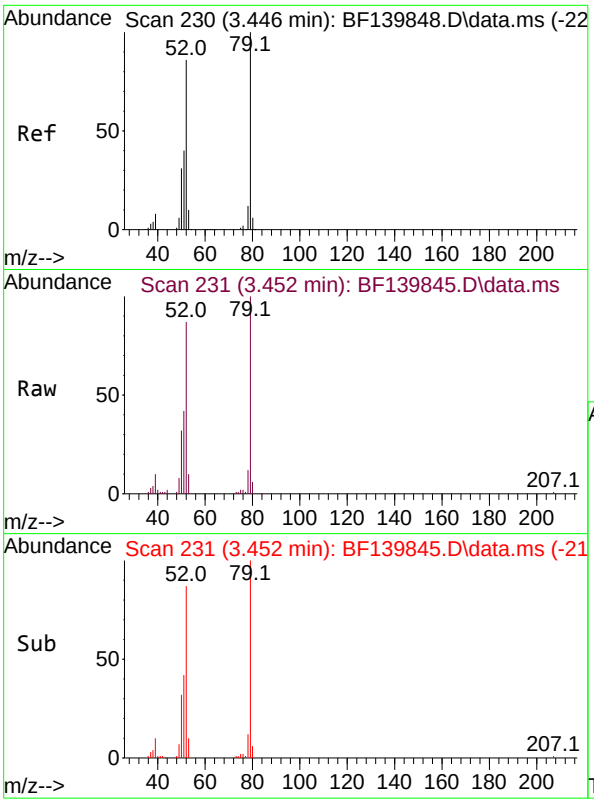


#2
1,4-Dioxane
Concen: 5.461 ng
RT: 2.687 min Scan# 101
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion: 88 Resp: 30759

Ion	Ratio	Lower	Upper
88	100		
58	89.3	73.3	109.9
43	35.6	27.1	40.7



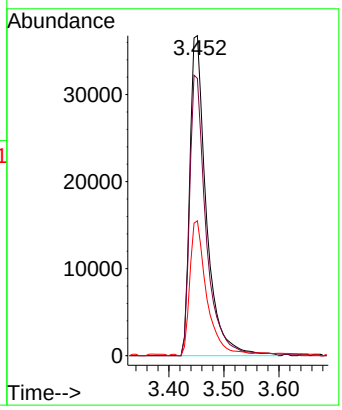


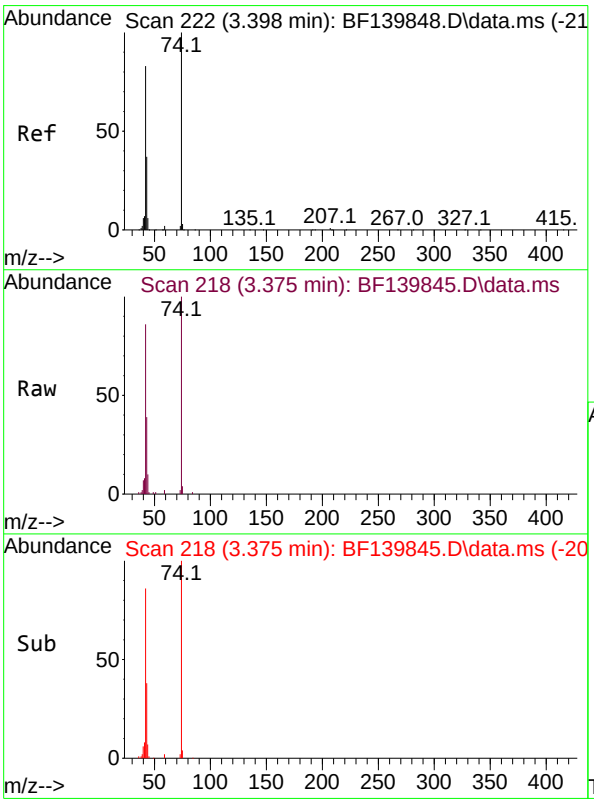
#3
Pyridine
Concen: 5.494 ng
RT: 3.452 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 76703

Ion	Ratio	Lower	Upper
79	100		
52	86.7	68.5	102.7
51	42.2	32.3	48.5

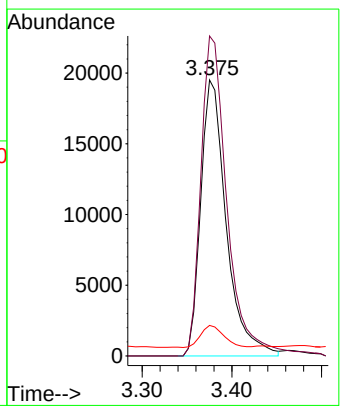


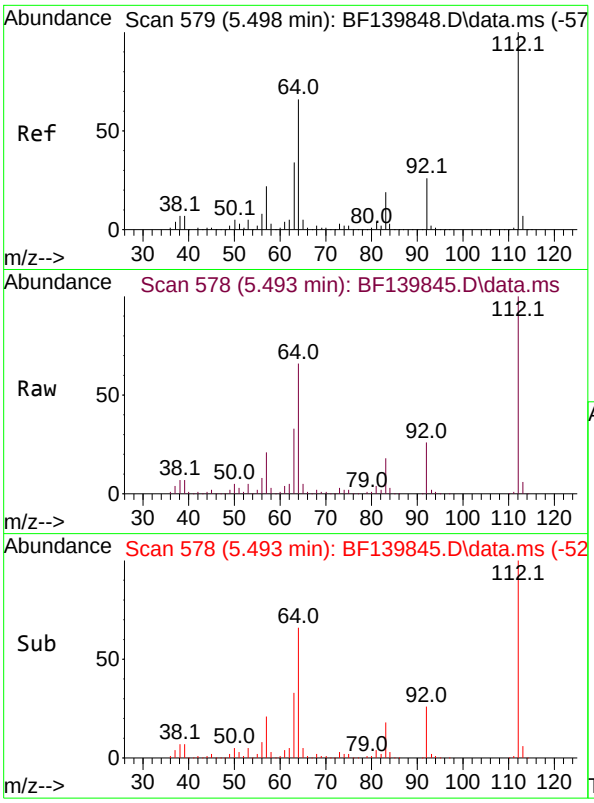


#4
n-Nitrosodimethylamine
Concen: 5.140 ng
RT: 3.375 min Scan# 218
Delta R.T. -0.023 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion: 42 Resp: 38552

Ion	Ratio	Lower	Upper
42	100		
74	115.9	96.2	144.4
44	11.0	6.2	9.2#



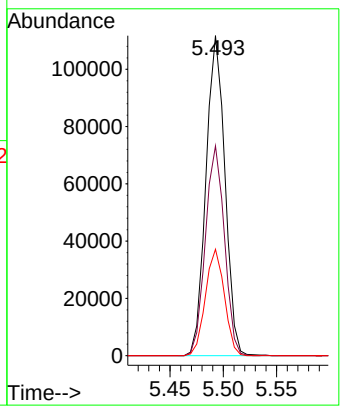


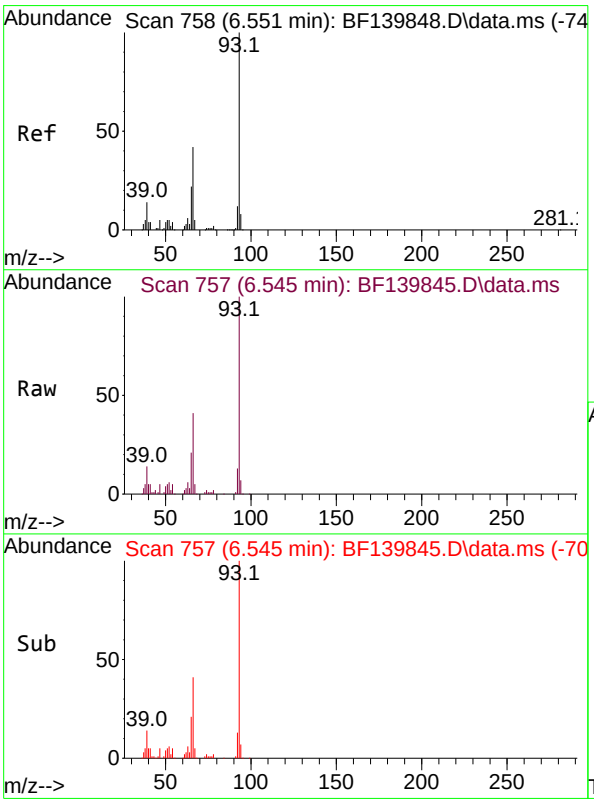
#5
2-Fluorophenol
Concen: 11.465 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:112 Resp: 138495

Ion	Ratio	Lower	Upper
112	100		
64	65.5	53.0	79.6
63	33.2	27.0	40.4

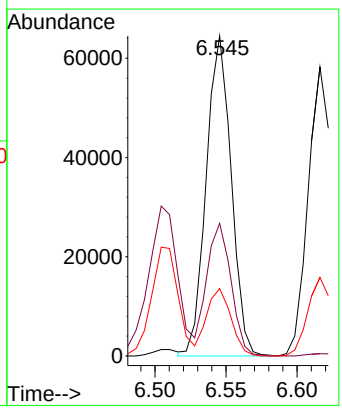


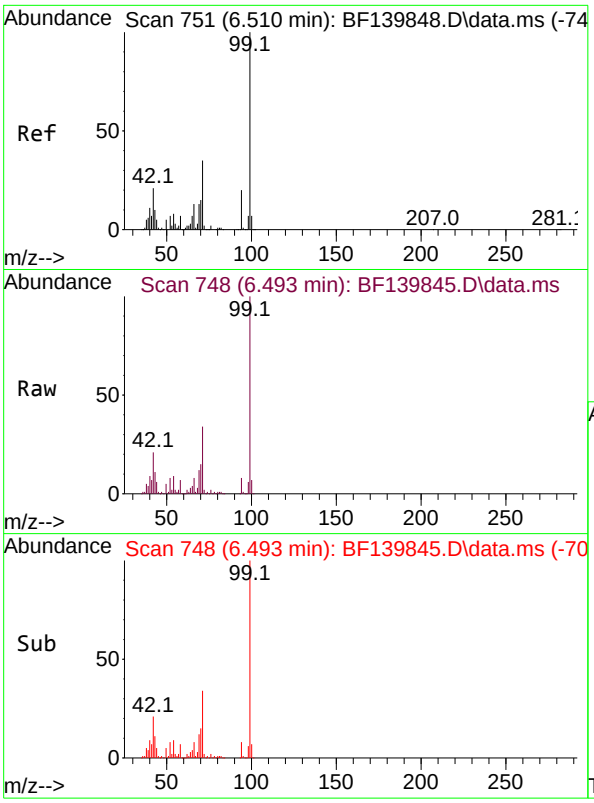


#6
Aniline
Concen: 5.424 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion: 93 Resp: 79083

Ion	Ratio	Lower	Upper
93	100		
66	41.4	34.0	51.0
65	21.1	17.4	26.0



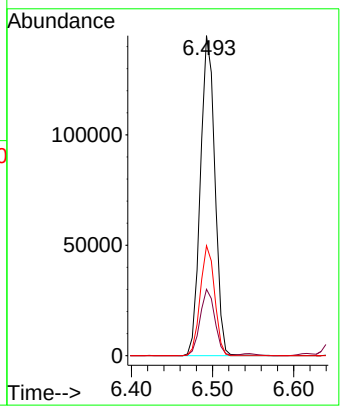


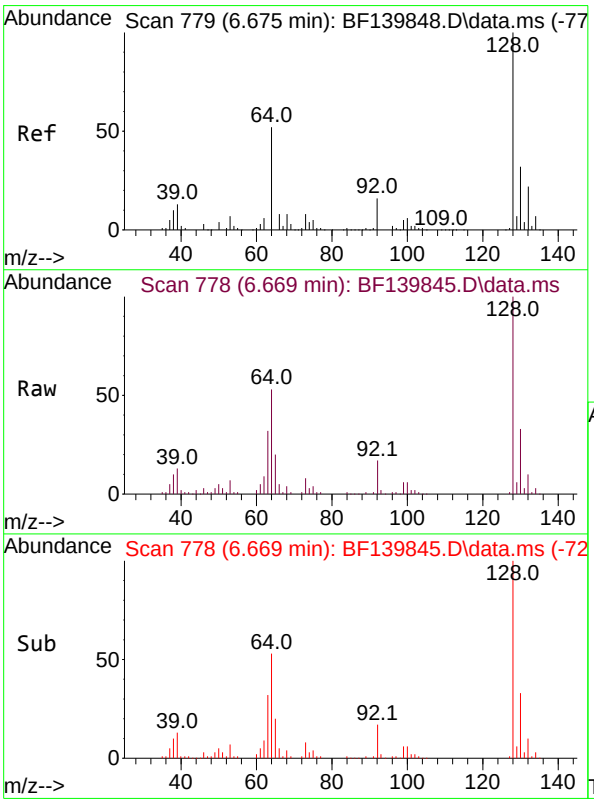
#7
Phenol-d6
Concen: 11.482 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 99 Resp: 179648

Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.7	25.1
71	34.3	27.7	41.5

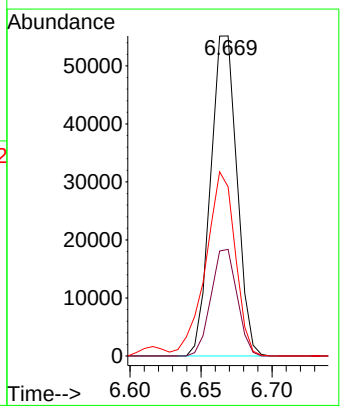


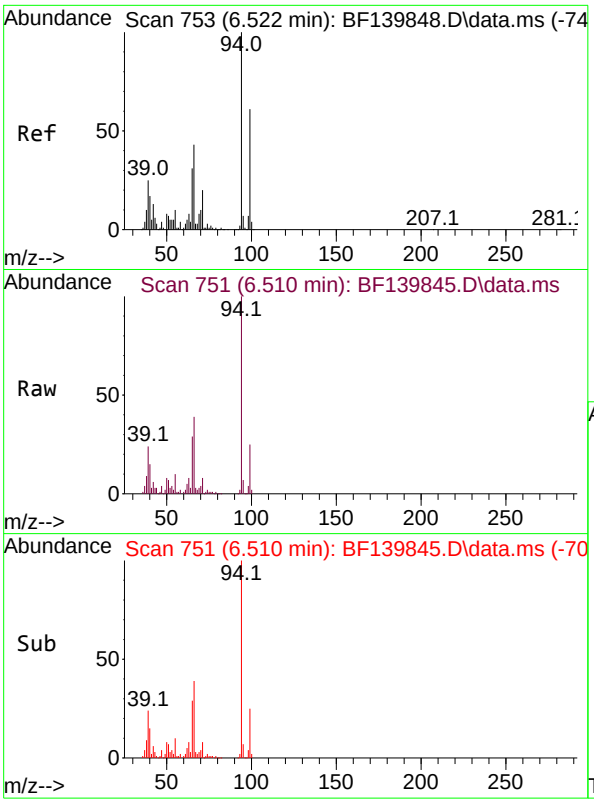


#8
2-Chlorophenol
Concen: 5.754 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:128 Resp: 71065

Ion	Ratio	Lower	Upper
128	100		
130	33.3	12.3	52.3
64	52.8	34.6	74.6



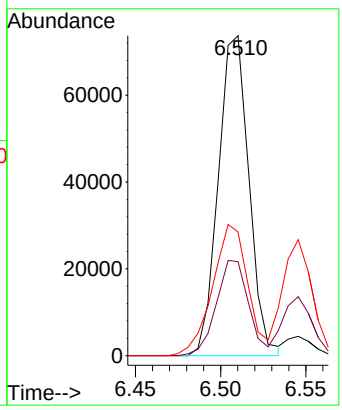


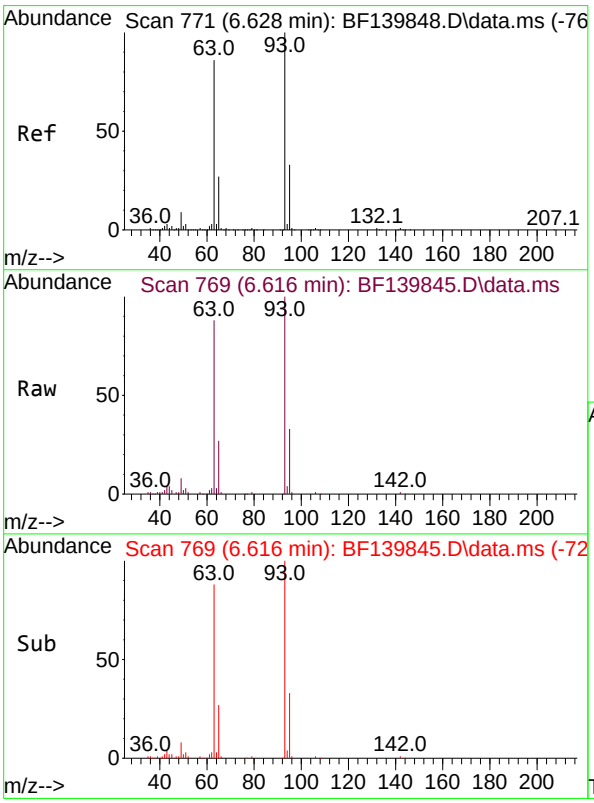
#10
Phenol
Concen: 5.620 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 94 Resp: 92287

Ion	Ratio	Lower	Upper
94	100		
65	29.4	11.1	51.1
66	38.6	22.7	62.7

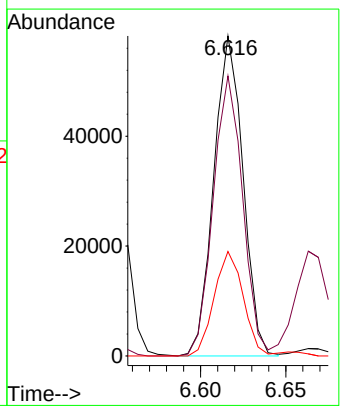


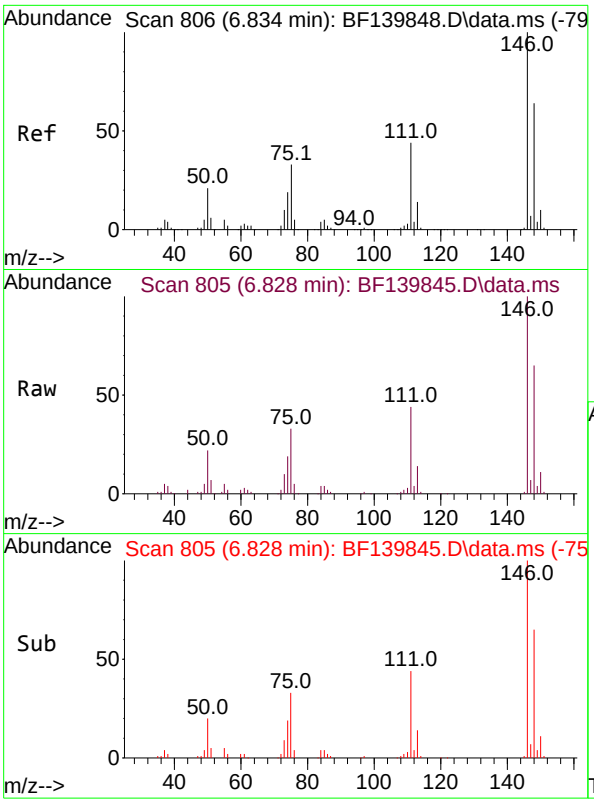


#11
bis(2-Chloroethyl)ether
Concen: 5.575 ng
RT: 6.616 min Scan# 769
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion: 93 Resp: 69504

Ion	Ratio	Lower	Upper
93	100		
63	87.5	65.0	105.0
95	32.6	12.4	52.4



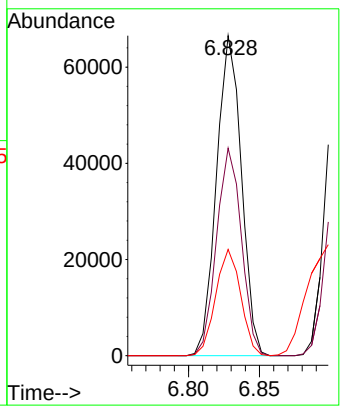


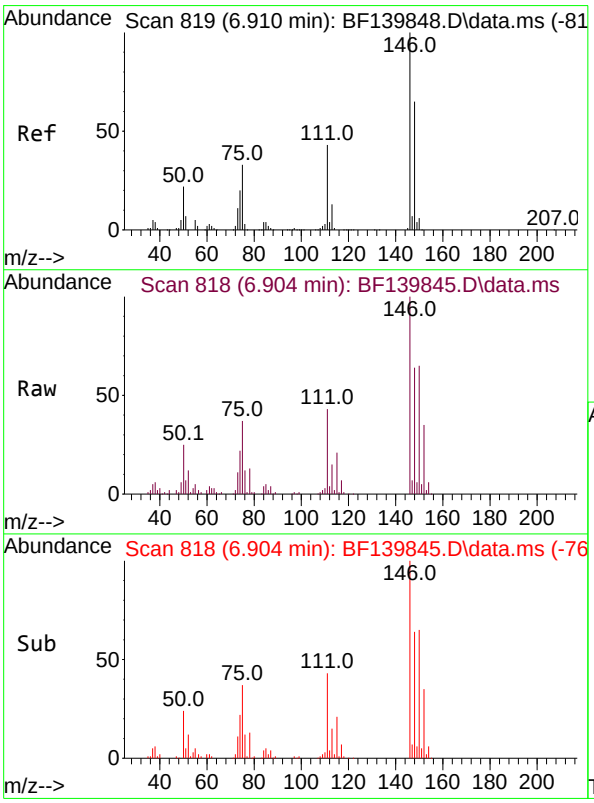
#12
1,3-Dichlorobenzene
Concen: 5.731 ng
RT: 6.828 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 81239

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.0	76.4
75	33.2	26.4	39.6

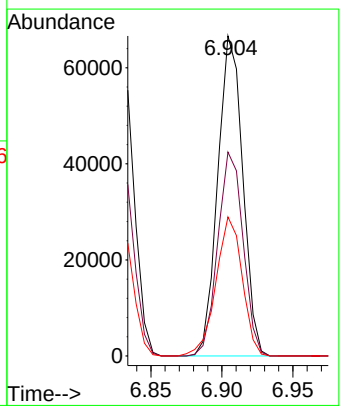


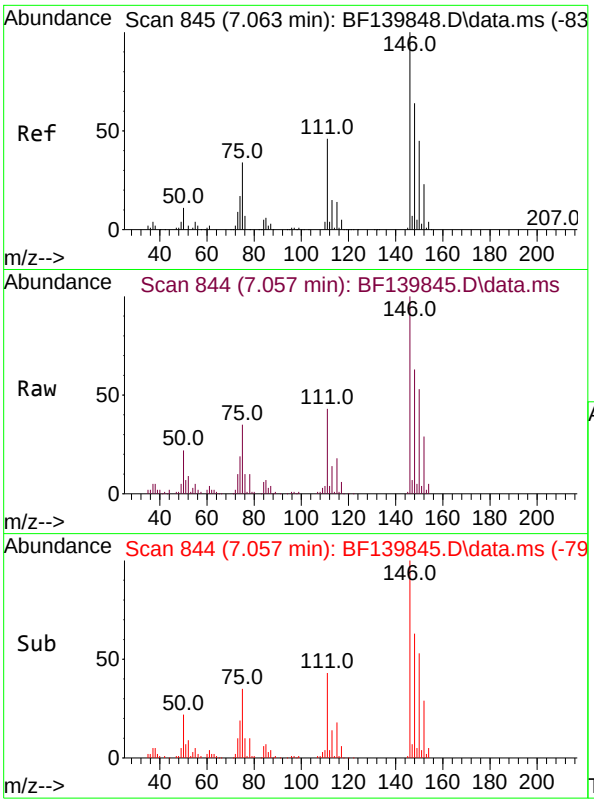


#13
1,4-Dichlorobenzene
Concen: 5.750 ng
RT: 6.904 min Scan# 818
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:146 Resp: 81442

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.8	77.8
111	43.5	34.6	51.8



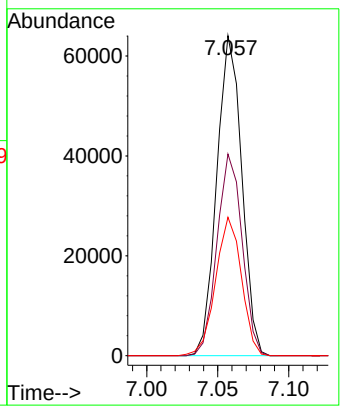


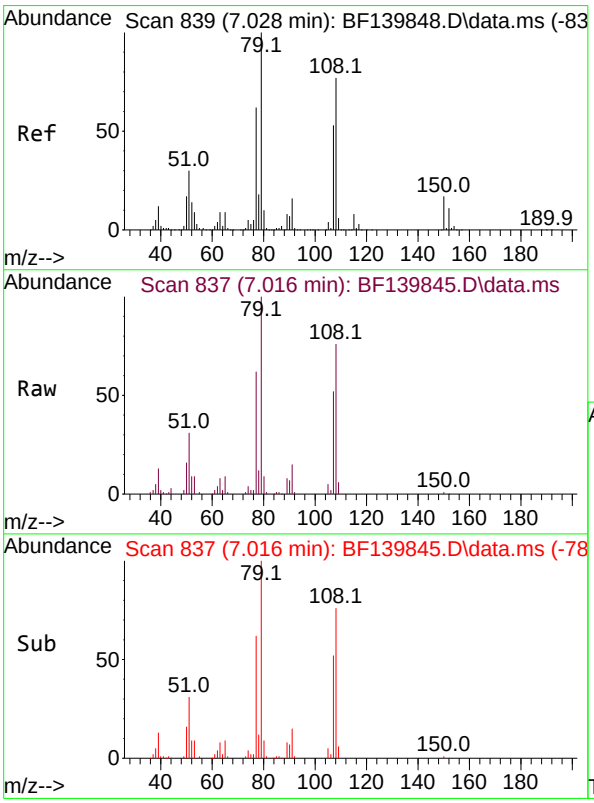
#14
1,2-Dichlorobenzene
Concen: 5.936 ng
RT: 7.057 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 78458

Ion	Ratio	Lower	Upper
146	100		
148	63.0	51.4	77.2
111	43.3	36.7	55.1

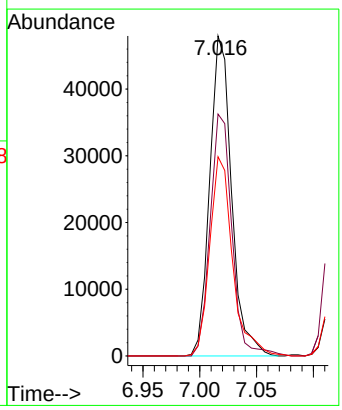


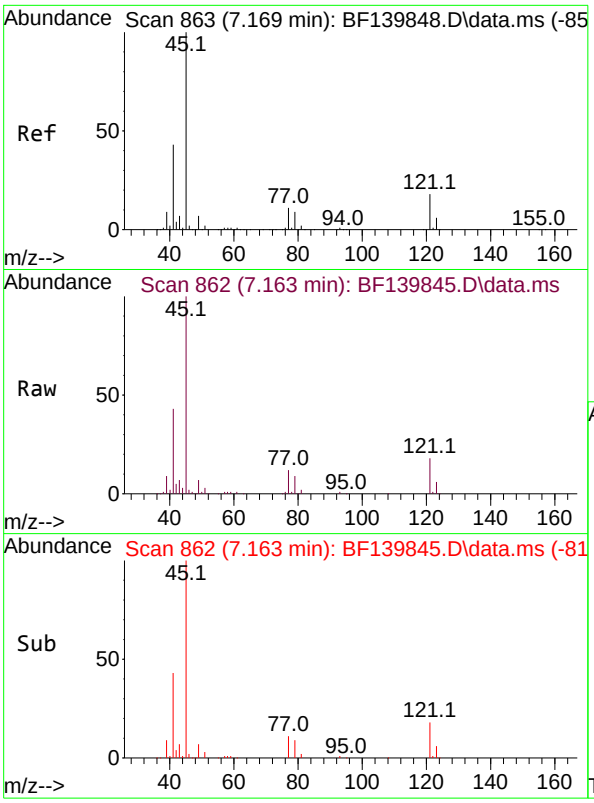


#15
Benzyl Alcohol
Concen: 5.582 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion: 79 Resp: 64060

Ion	Ratio	Lower	Upper
79	100		
108	75.6	61.4	92.0
77	62.3	49.9	74.9



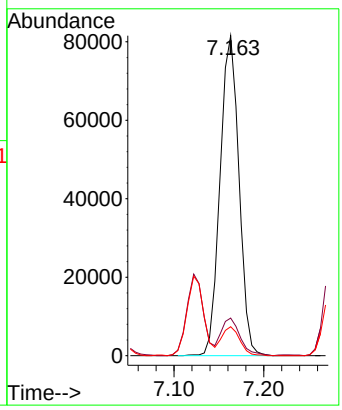


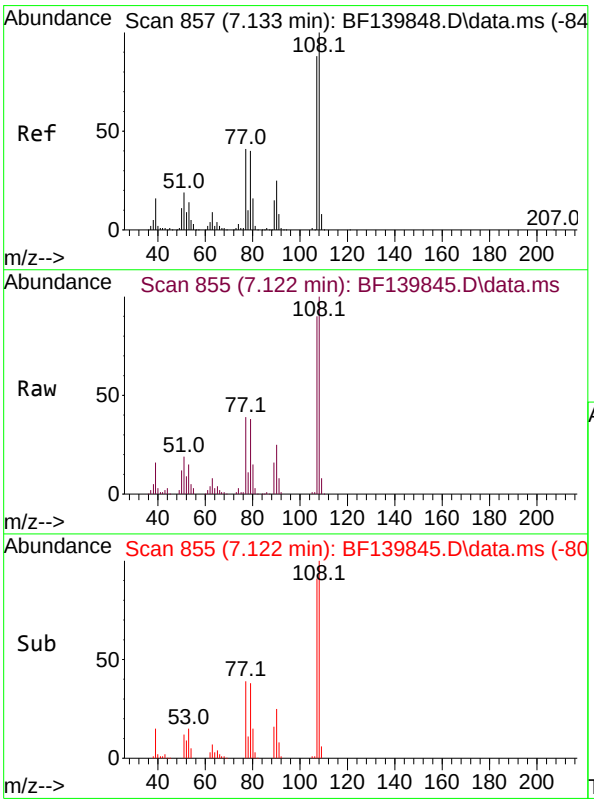
#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.614 ng
RT: 7.163 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 45 Resp: 119350

Ion	Ratio	Lower	Upper
45	100		
77	11.8	0.0	31.5
79	9.1	0.0	29.1

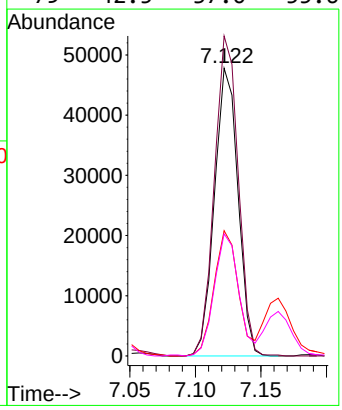


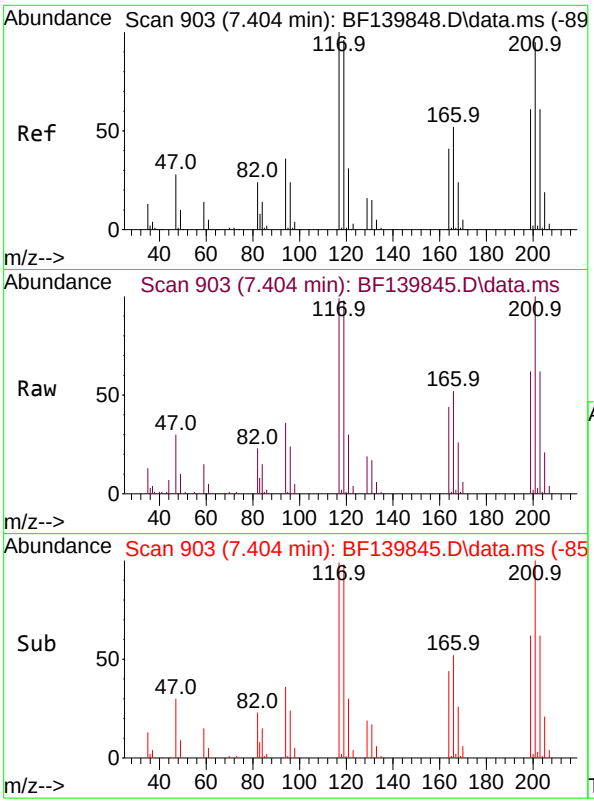


#17
2-Methylphenol
Concen: 5.676 ng
RT: 7.122 min Scan# 855
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:107 Resp: 59770

Ion	Ratio	Lower	Upper
107	100		
108	111.2	91.3	136.9
77	43.6	37.1	55.7
79	42.5	37.0	55.6



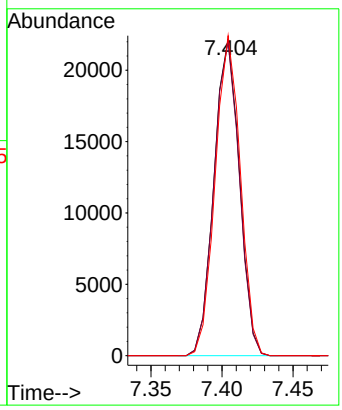


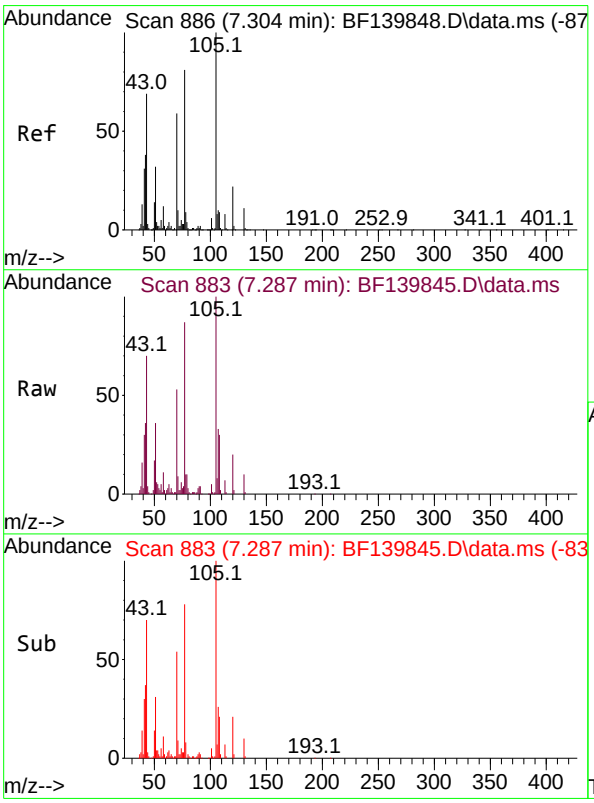
#18
Hexachloroethane
Concen: 5.458 ng
RT: 7.404 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:117 Resp: 27566

Ion	Ratio	Lower	Upper
117	100		
119	99.1	77.0	115.4
201	101.0	76.2	114.4

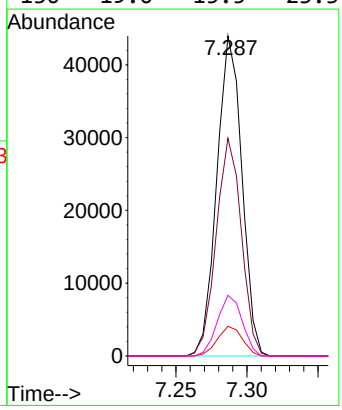


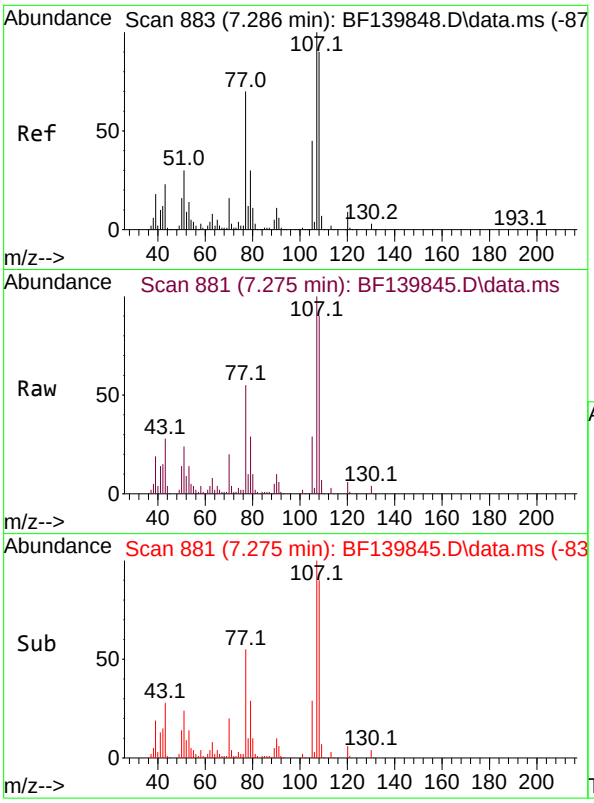


#19
n-Nitroso-di-n-propylamine
Concen: 5.686 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.017 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion: 70 Resp: 53958

Ion	Ratio	Lower	Upper
70	100		
42	68.0	51.5	77.3
101	9.2	7.5	11.3
130	19.0	15.5	23.3



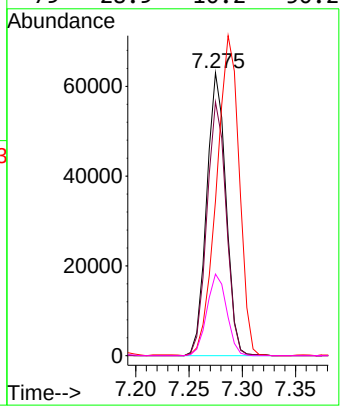


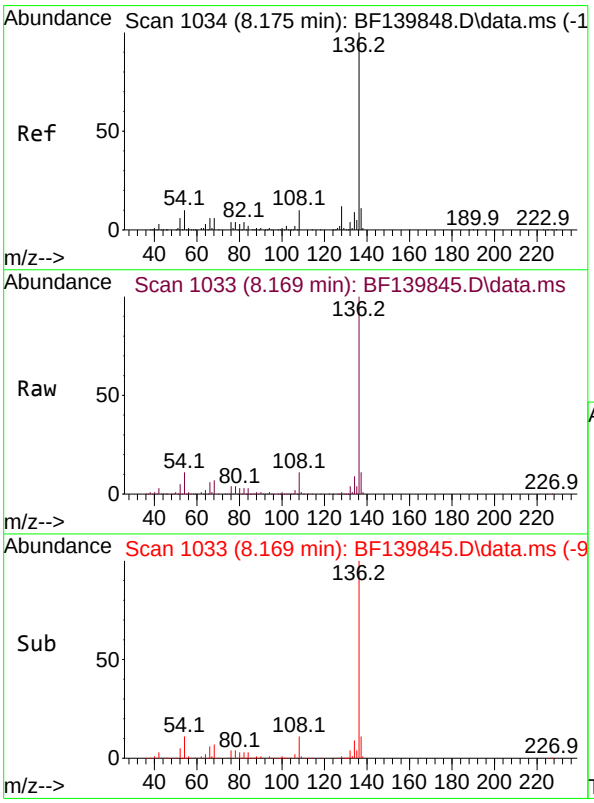
#20
3+4-Methylphenols
Concen: 5.890 ng
RT: 7.275 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 79329

Ion	Ratio	Lower	Upper
107	100		
108	89.7	69.8	109.8
77	54.7	50.5	90.5
79	28.9	10.2	50.2

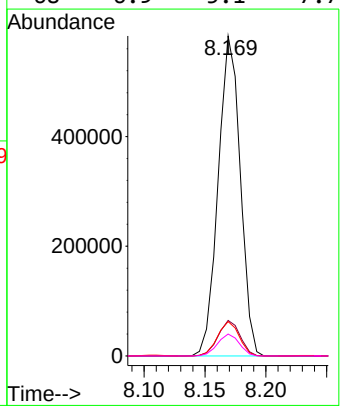


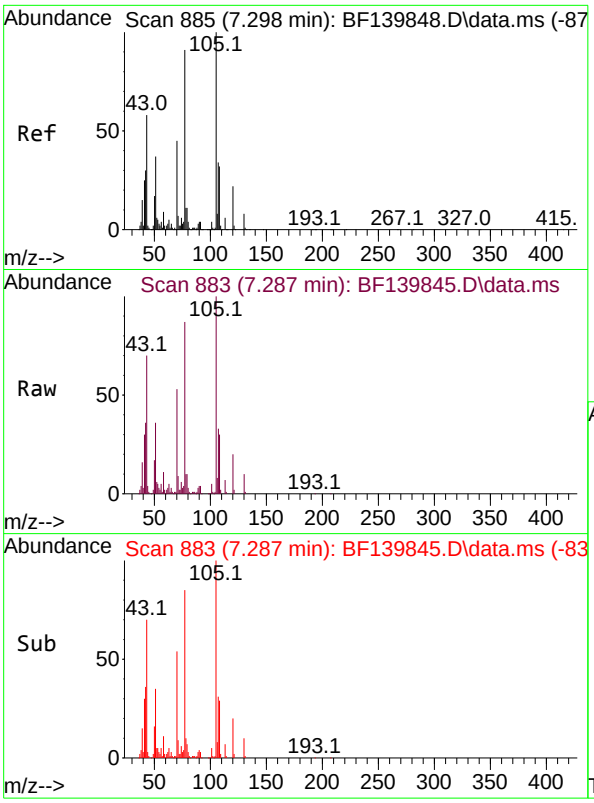


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:136 Resp: 737062

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	12.8
54	10.7	8.4	12.6
68	6.9	5.1	7.7



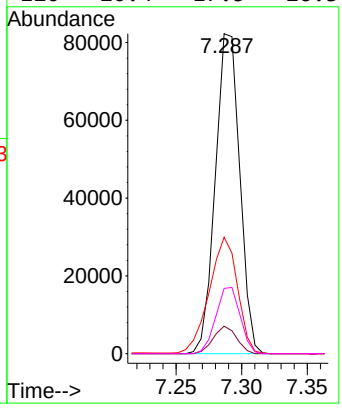


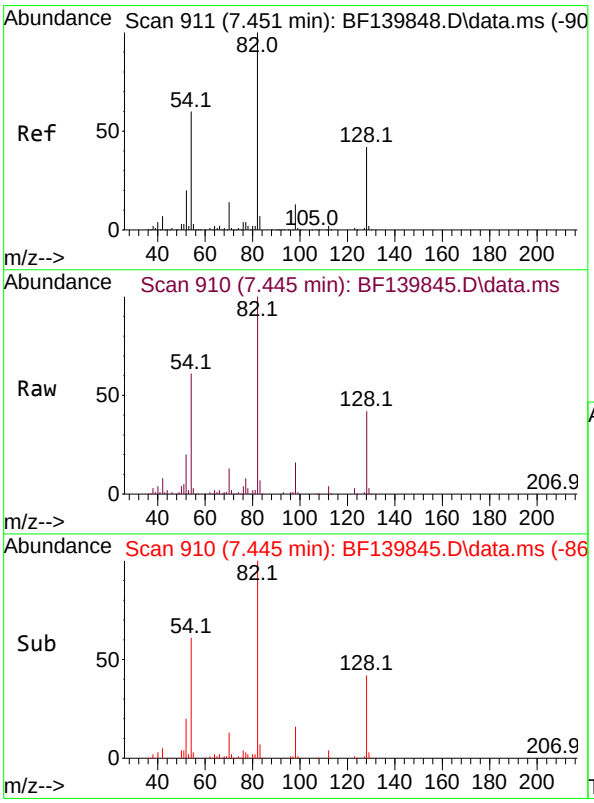
#22
Acetophenone
Concen: 5.900 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:105 Resp: 106522

Ion	Ratio	Lower	Upper
105	100		
71	8.6	5.9	8.9
51	36.4	29.4	44.2
120	20.4	17.5	26.3

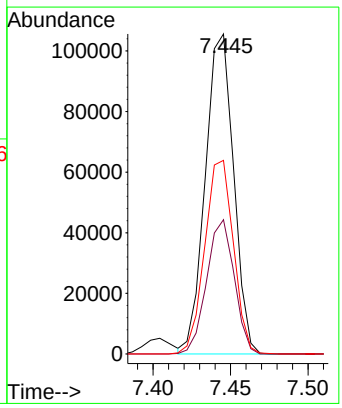


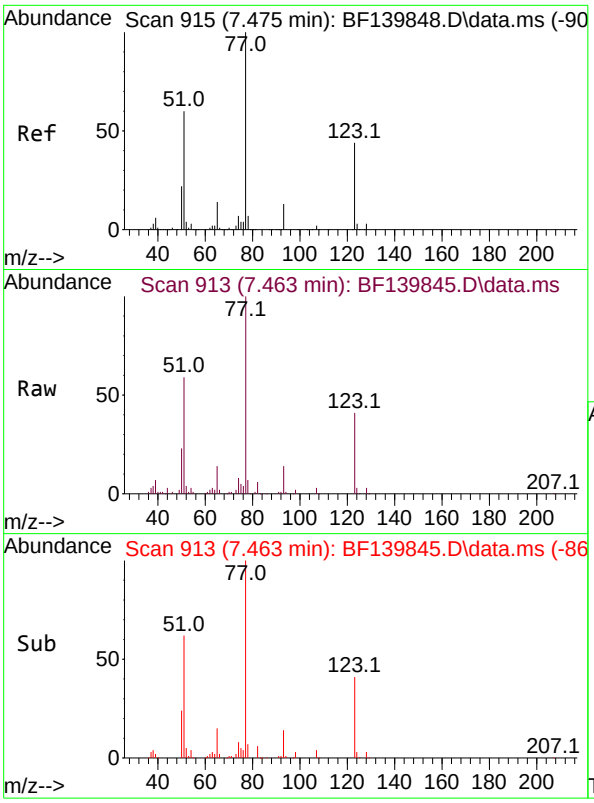


#23
Nitrobenzene-d5
Concen: 10.109 ng
RT: 7.445 min Scan# 910
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion: 82 Resp: 134439

Ion	Ratio	Lower	Upper
82	100		
128	42.0	33.4	50.0
54	60.5	47.8	71.8



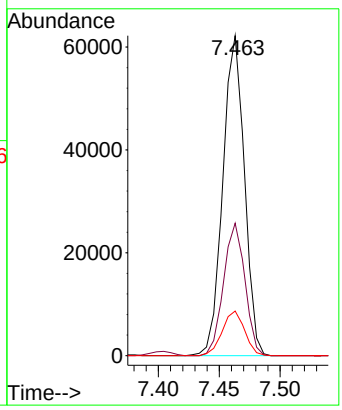


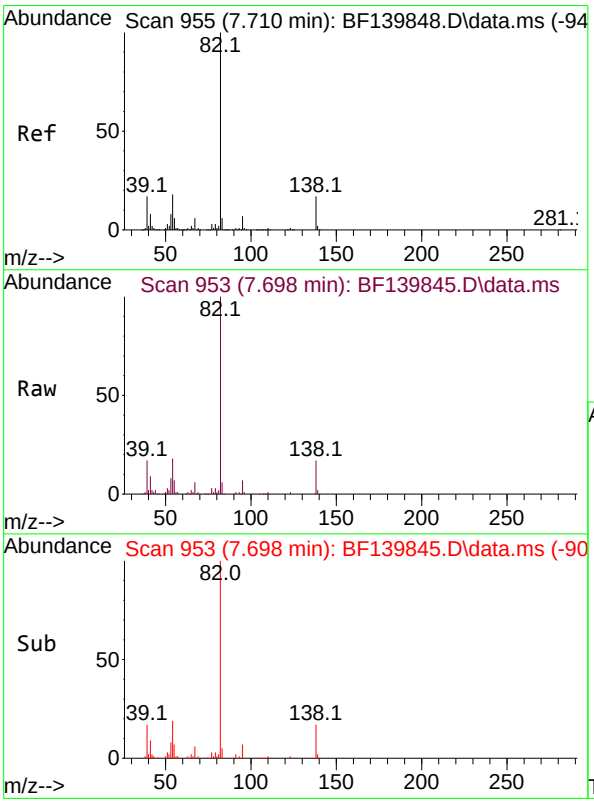
#24
Nitrobenzene
Concen: 5.269 ng
RT: 7.463 min Scan# 91
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 76831

Ion	Ratio	Lower	Upper
77	100		
123	41.4	35.7	53.5
65	14.0	11.5	17.3

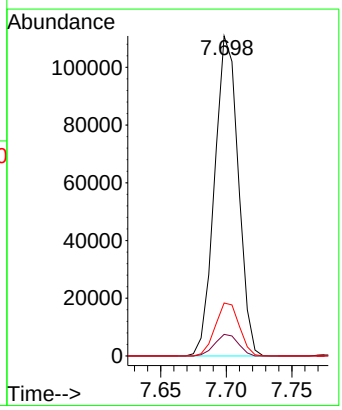


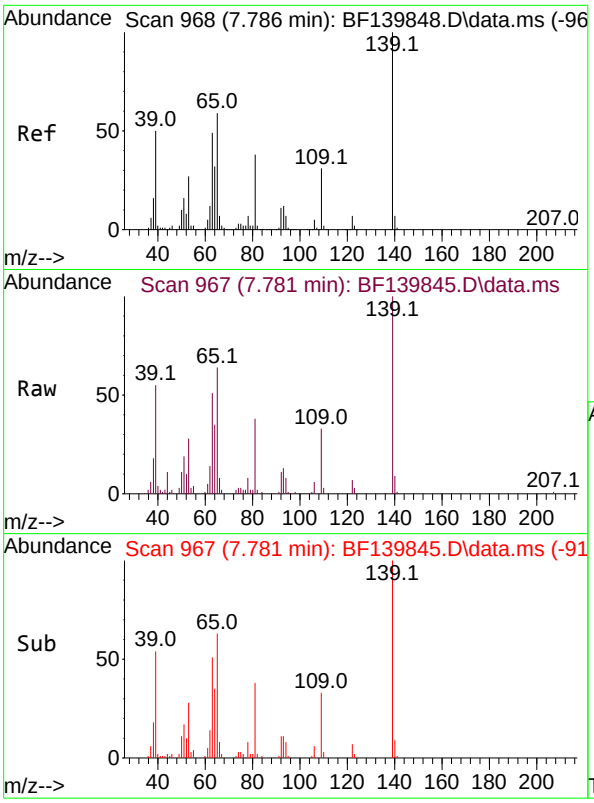


#25
Isophorone
Concen: 5.510 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion: 82 Resp: 139084

Ion	Ratio	Lower	Upper
82	100		
95	6.8	5.5	8.3
138	16.5	13.2	19.8



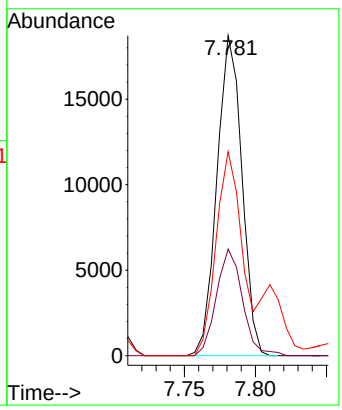


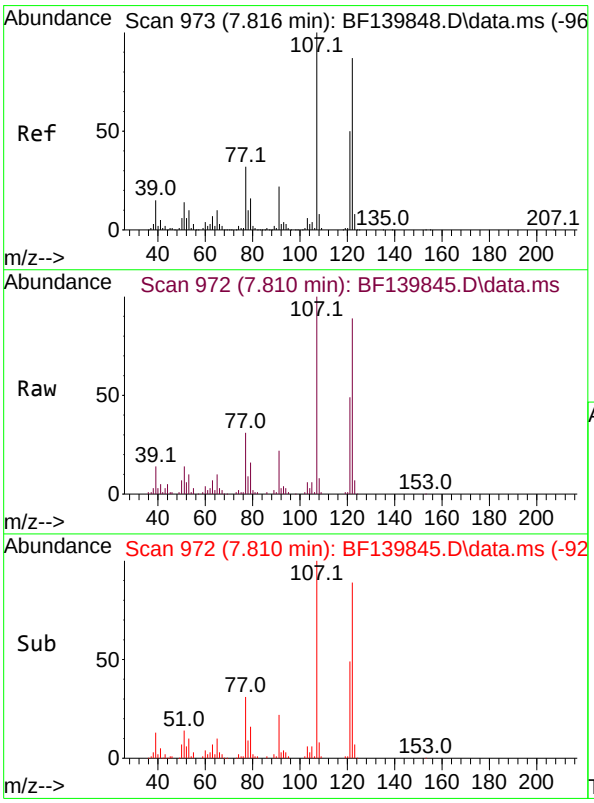
#26
2-Nitrophenol
Concen: 4.157 ng
RT: 7.781 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:139 Resp: 22867

Ion	Ratio	Lower	Upper
139	100		
109	33.3	25.1	37.7
65	63.8	47.5	71.3

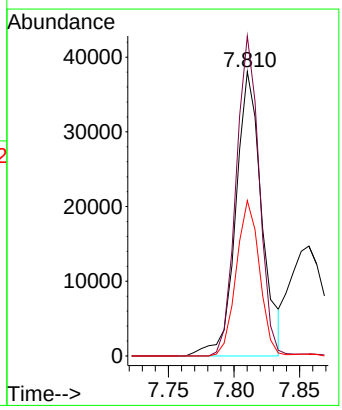


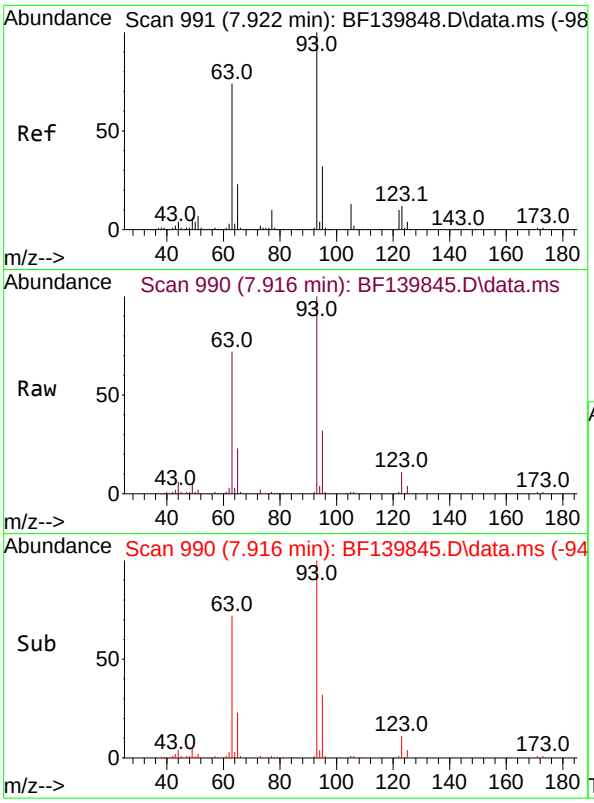


#27
2,4-Dimethylphenol
Concen: 5.716 ng
RT: 7.810 min Scan# 972
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:122 Resp: 52430

Ion	Ratio	Lower	Upper
122	100		
107	112.5	91.9	137.9
121	54.7	46.2	69.4



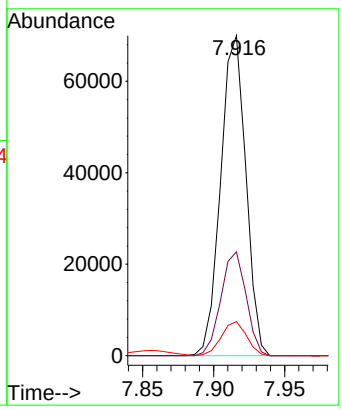


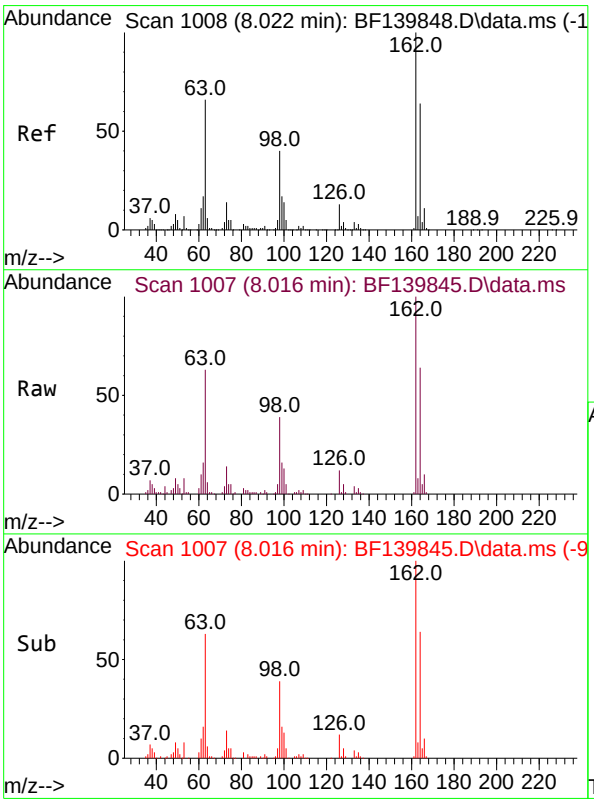
#28
bis(2-Chloroethoxy)methane
Concen: 5.643 ng
RT: 7.916 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 86298

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.0	39.0
123	10.6	9.8	14.8

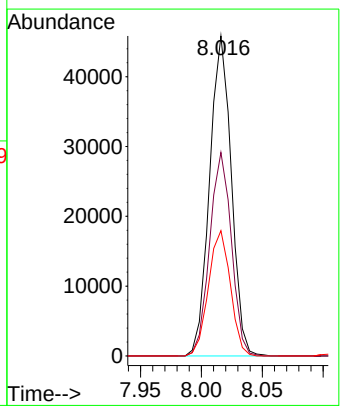


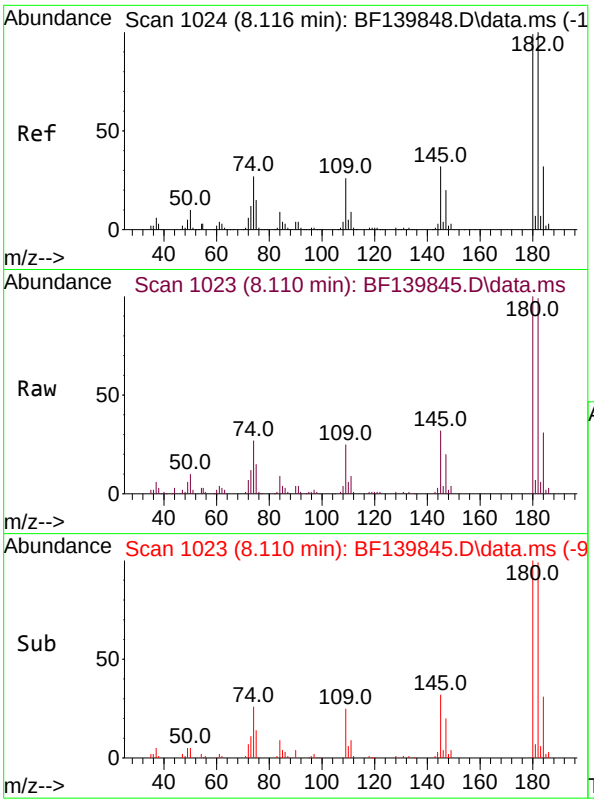


#29
2,4-Dichlorophenol
Concen: 5.434 ng
RT: 8.016 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:162 Resp: 56772

Ion	Ratio	Lower	Upper
162	100		
164	63.6	43.9	83.9
98	39.2	19.9	59.9



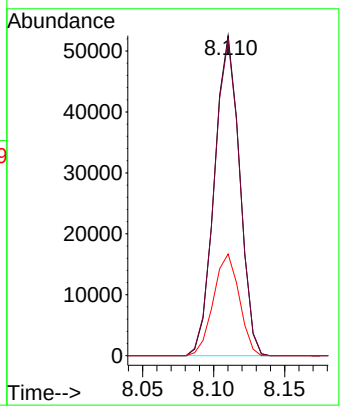


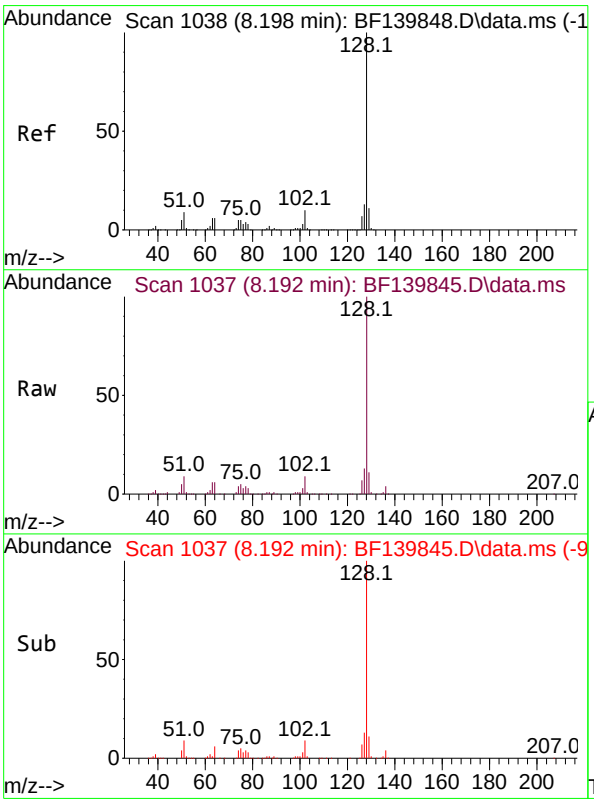
#30
1,2,4-Trichlorobenzene
Concen: 5.592 ng
RT: 8.110 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:180 Resp: 64640

Ion	Ratio	Lower	Upper
180	100		
182	98.8	80.5	120.7
145	31.8	25.4	38.0

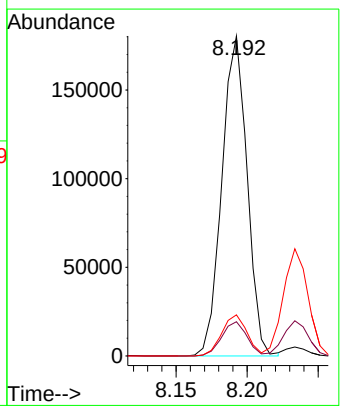


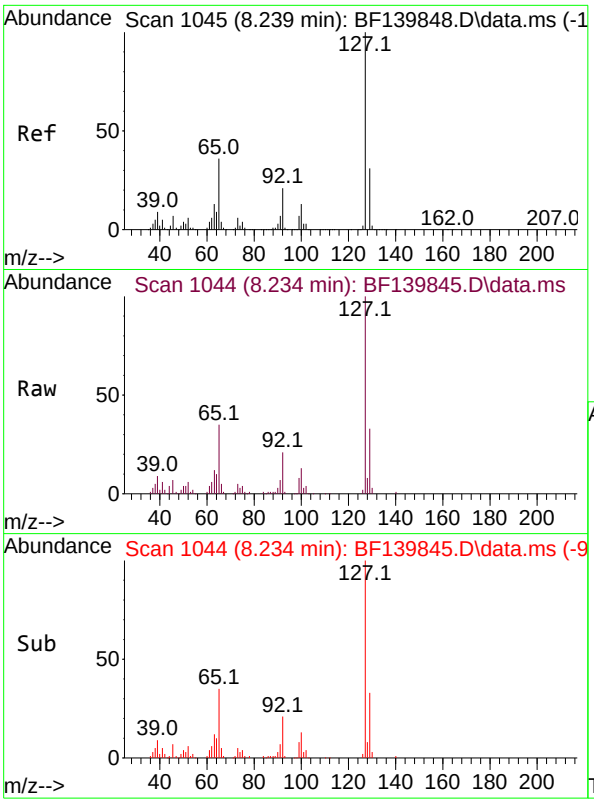


#31
Naphthalene
Concen: 5.859 ng
RT: 8.192 min Scan# 1037
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:128 Resp: 222725

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.9	13.3
127	12.9	10.6	16.0



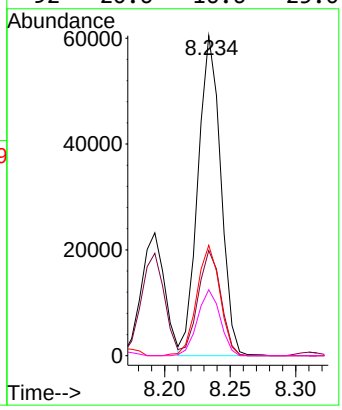


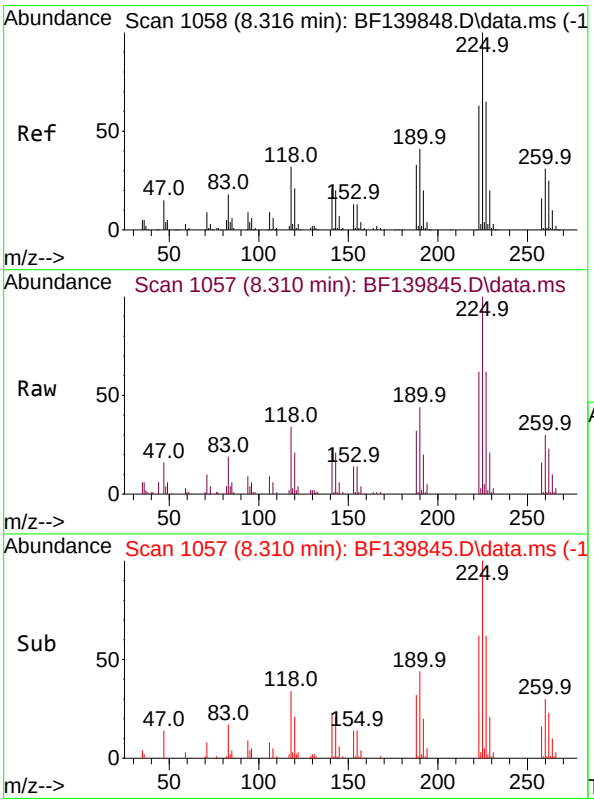
#33
4-Chloroaniline
Concen: 5.647 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:127 Resp: 73196

Ion	Ratio	Lower	Upper
127	100		
129	32.9	25.4	38.2
65	34.5	28.4	42.6
92	20.6	16.6	25.0

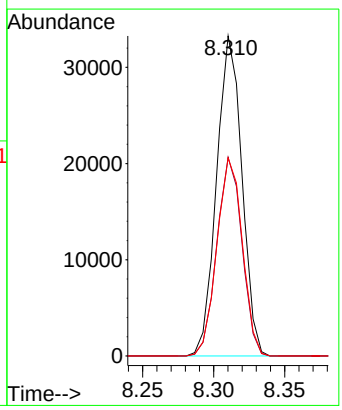


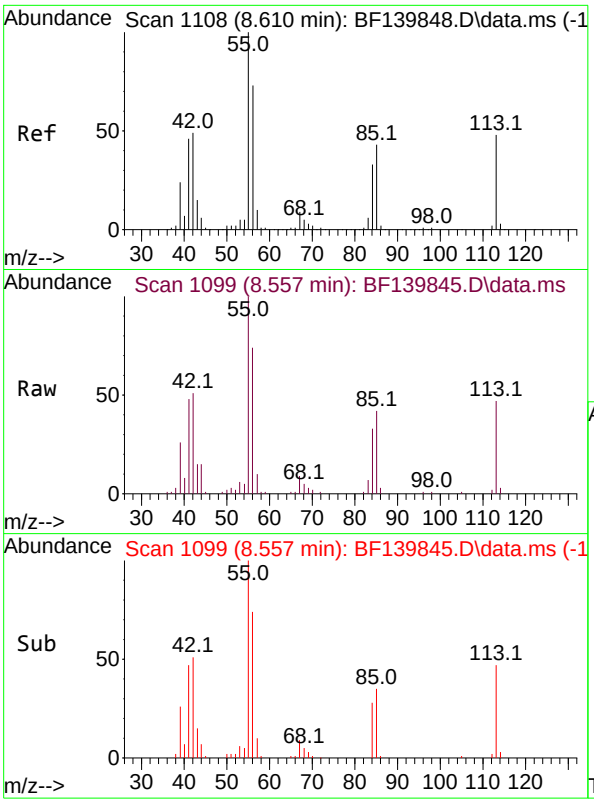


#34
Hexachlorobutadiene
Concen: 5.670 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:225 Resp: 41186

Ion	Ratio	Lower	Upper
225	100		
223	62.1	50.6	76.0
227	61.9	51.8	77.8



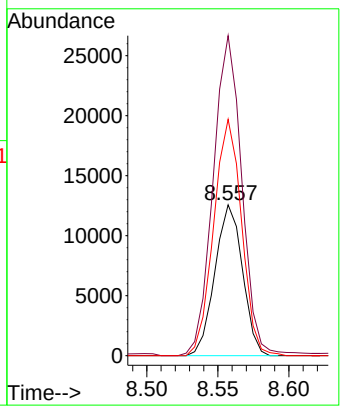


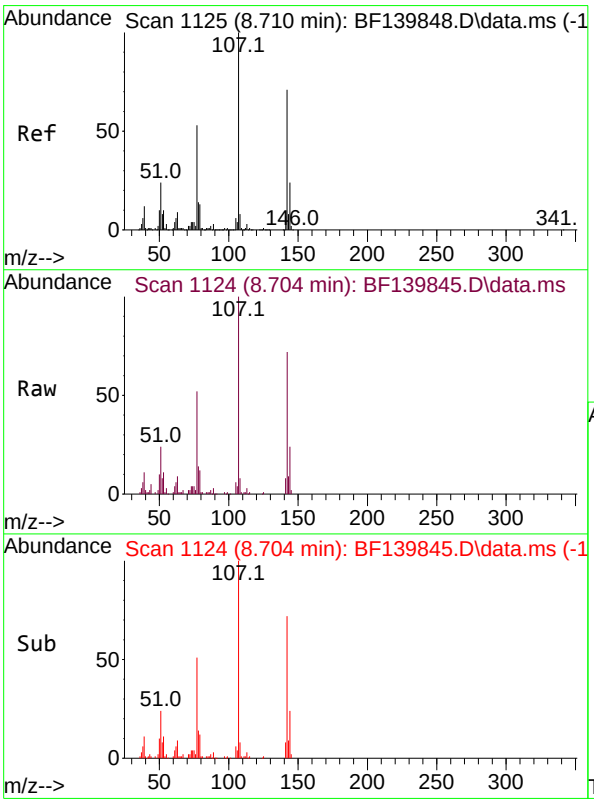
#35
Caprolactam
Concen: 5.114 ng
RT: 8.557 min Scan# 1
Delta R.T. -0.053 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:113 Resp: 16989

Ion	Ratio	Lower	Upper
113	100		
55	212.2	189.2	229.2
56	156.7	132.5	172.5

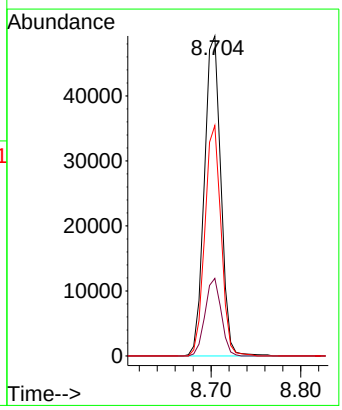


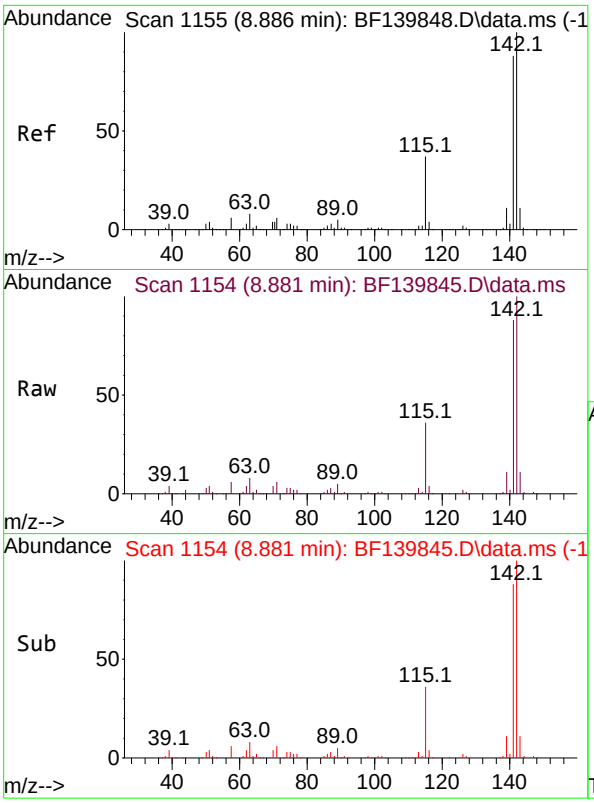


#36
4-Chloro-3-methylphenol
Concen: 5.438 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:107 Resp: 62903

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.1	28.7
142	72.0	57.2	85.8



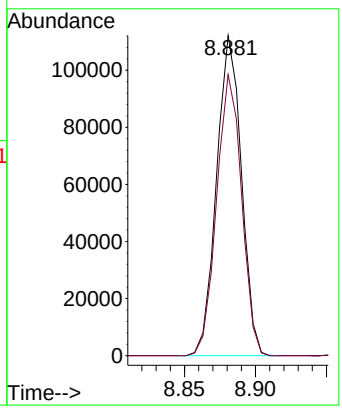


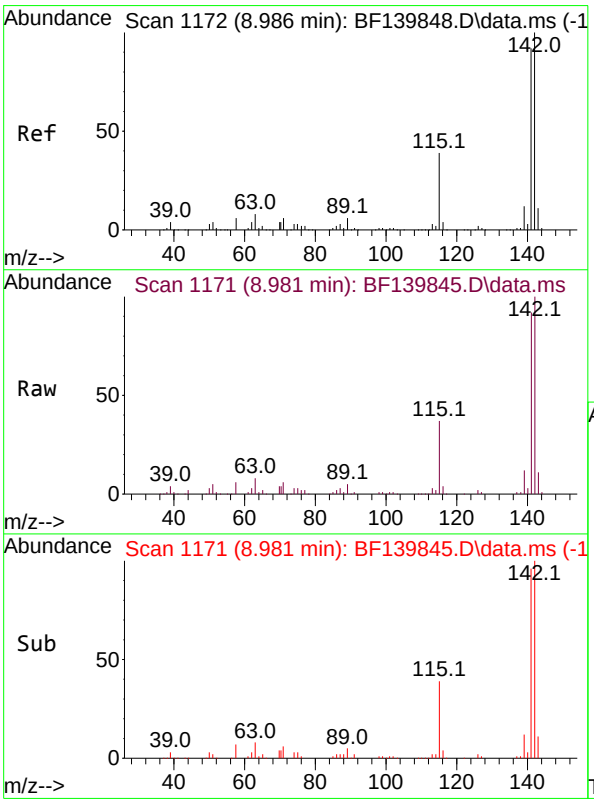
#37
2-Methylnaphthalene
Concen: 5.854 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 136292

Ion	Ratio	Lower	Upper
142	100		
141	87.8	70.8	106.2

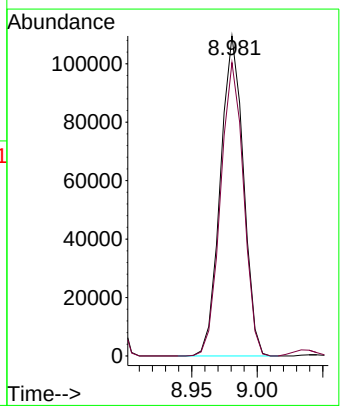


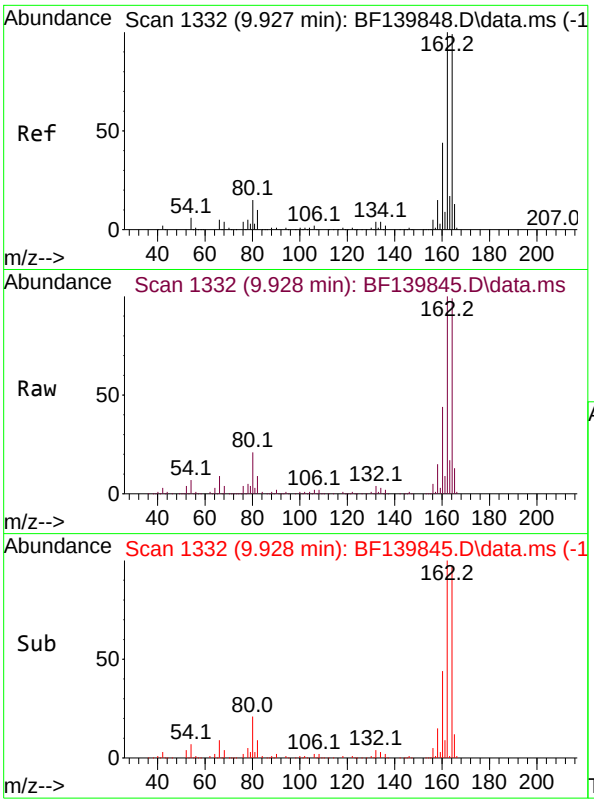


#38
1-Methylnaphthalene
Concen: 5.856 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:142 Resp: 133747

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.5	110.3



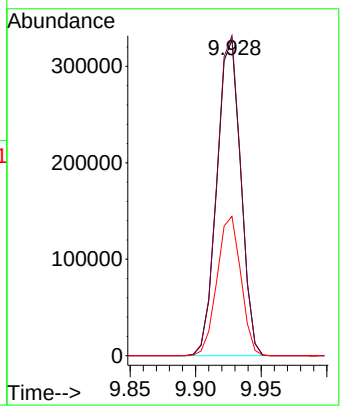


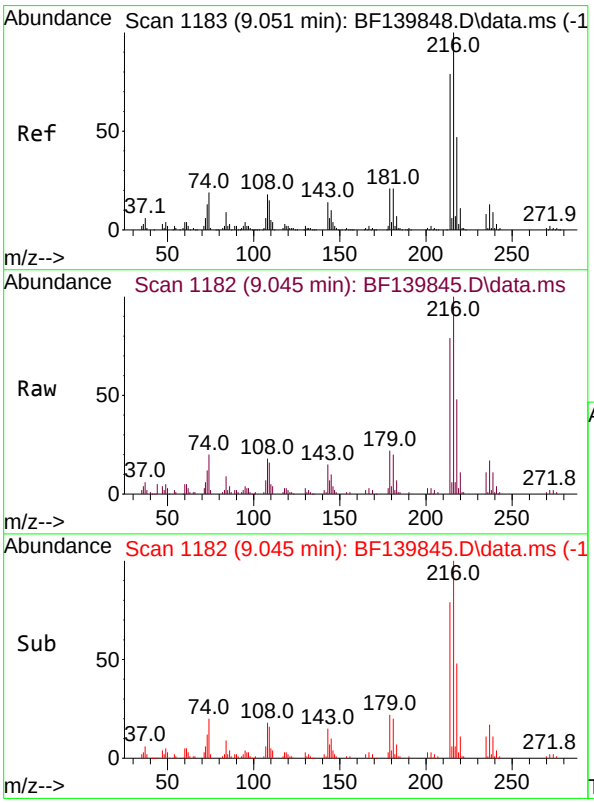
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:164 Resp: 414324

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.0	121.4
160	44.1	35.4	53.0

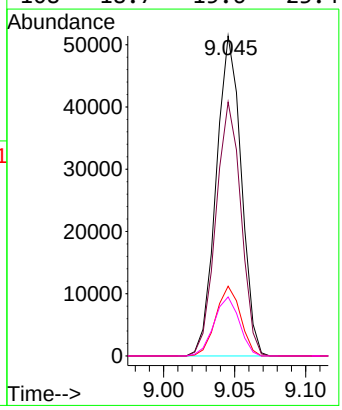


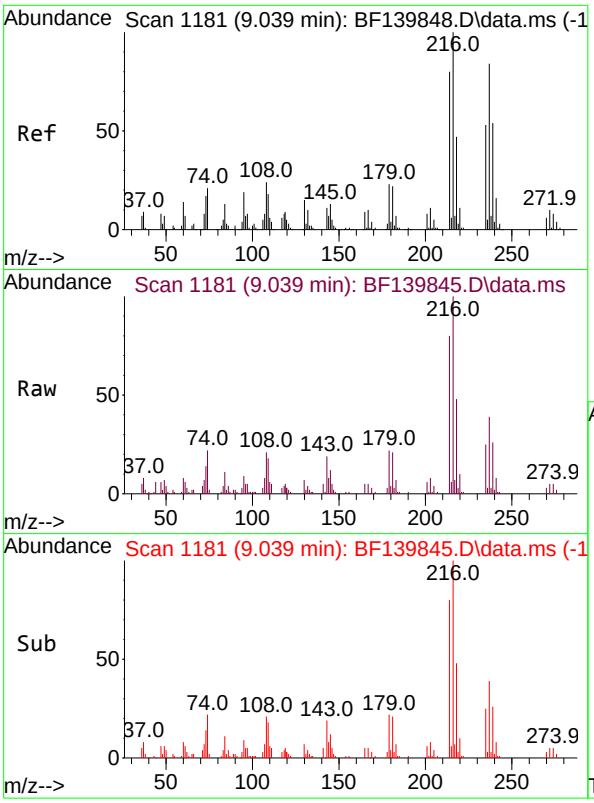


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.640 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:216 Resp: 63046

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.4	95.0
179	21.4	17.2	25.8
108	18.7	15.6	23.4



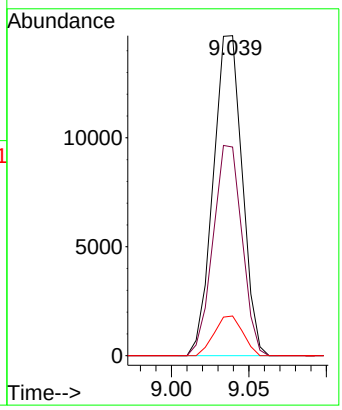


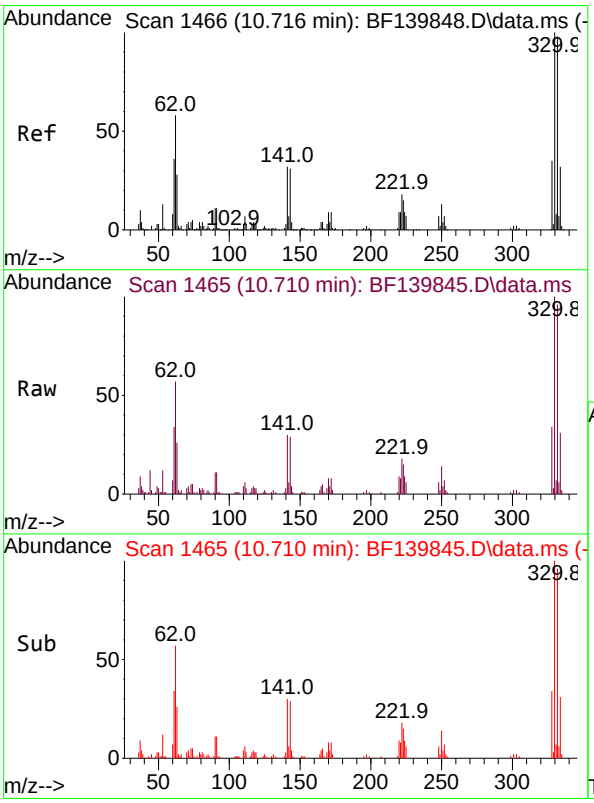
#41
Hexachlorocyclopentadiene
Concen: 4.916 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:237 Resp: 19121

Ion	Ratio	Lower	Upper
237	100		
235	65.2	42.9	82.9
272	12.4	0.0	32.3

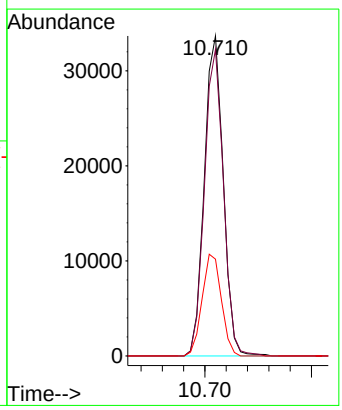


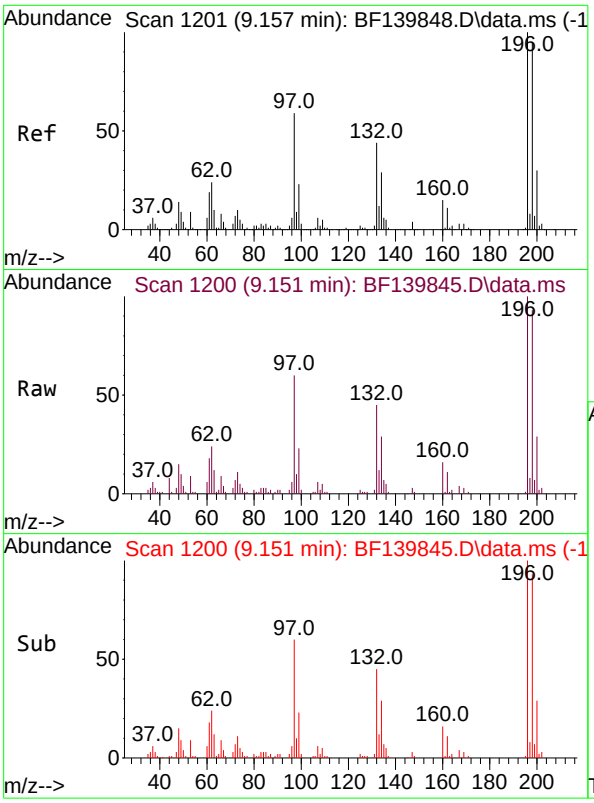


#42
2,4,6-Tribromophenol
Concen: 10.755 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:330 Resp: 41682

Ion	Ratio	Lower	Upper
330	100		
332	96.2	78.1	117.1
141	32.3	26.6	39.8



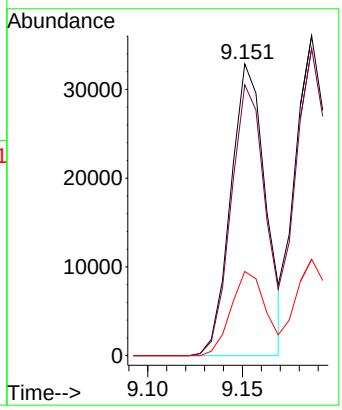


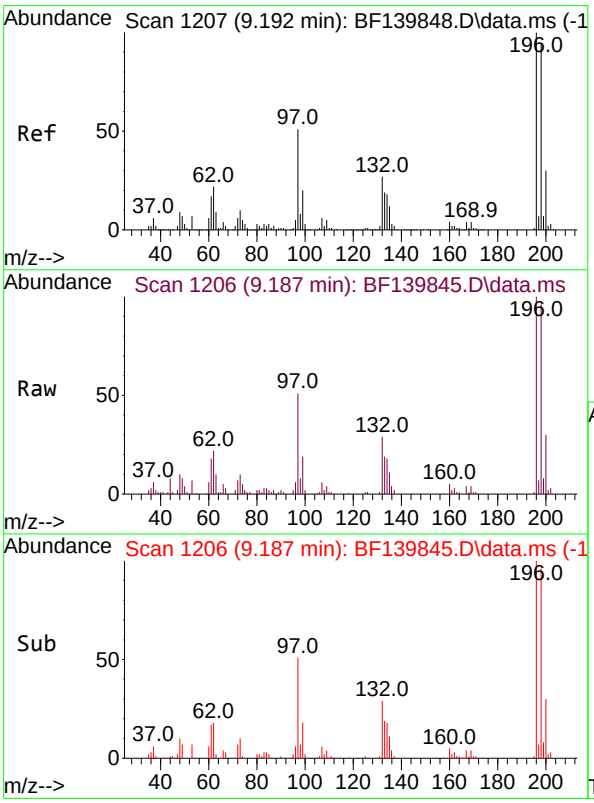
#43
2,4,6-Trichlorophenol
Concen: 5.307 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 41997

Ion	Ratio	Lower	Upper
196	100		
198	92.8	76.2	114.2
200	28.8	24.0	36.0

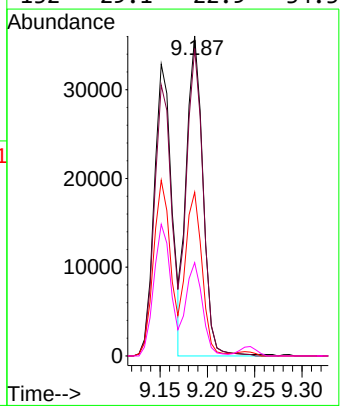


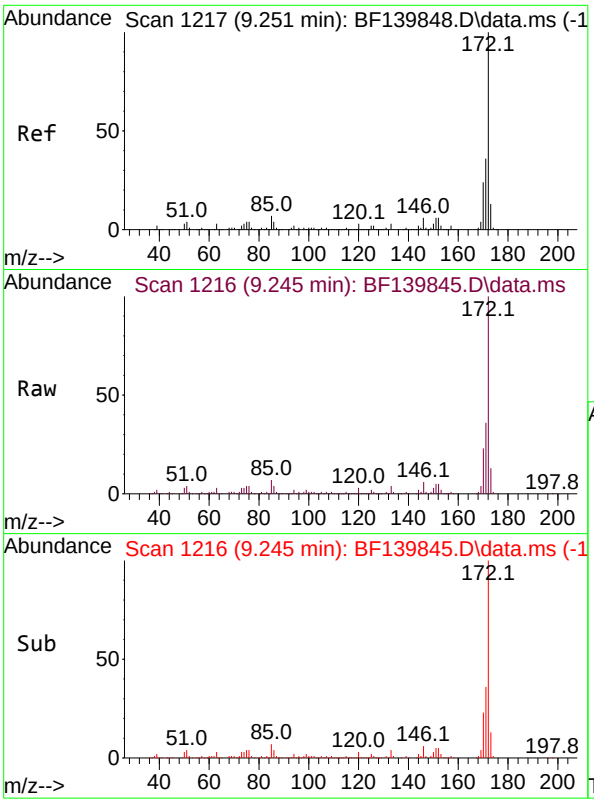


#44
2,4,5-Trichlorophenol
Concen: 5.399 ng
RT: 9.187 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:196 Resp: 44086

Ion	Ratio	Lower	Upper
196	100		
198	96.0	75.8	113.6
97	51.2	41.8	62.6
132	29.1	22.9	34.3



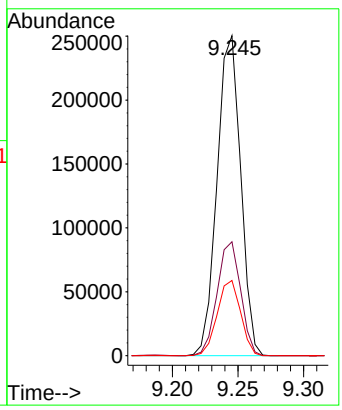


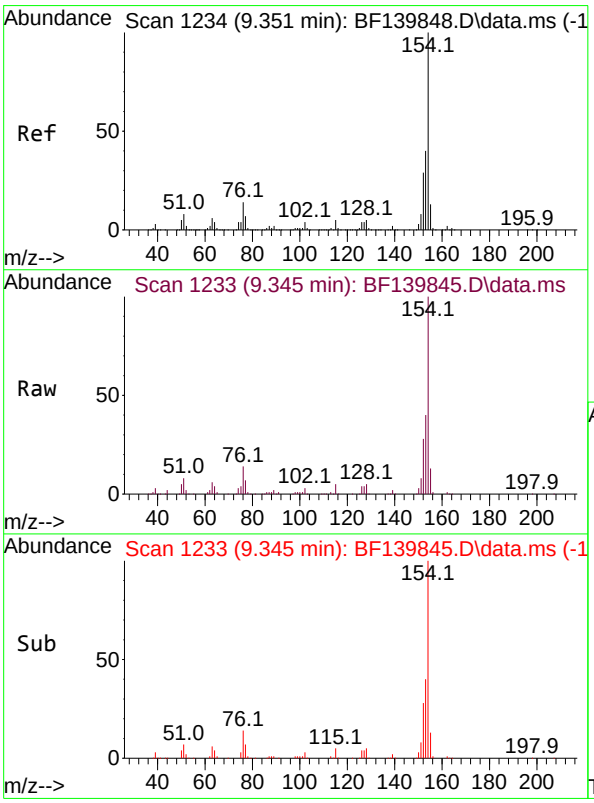
#45
2-Fluorobiphenyl
Concen: 12.492 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:172 Resp: 313171

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	23.5	19.1	28.7

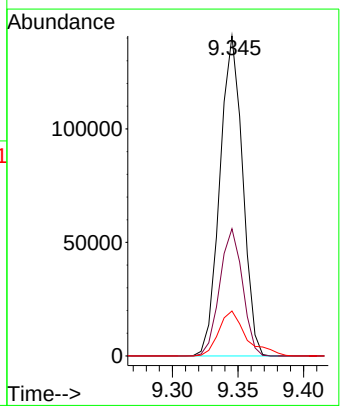


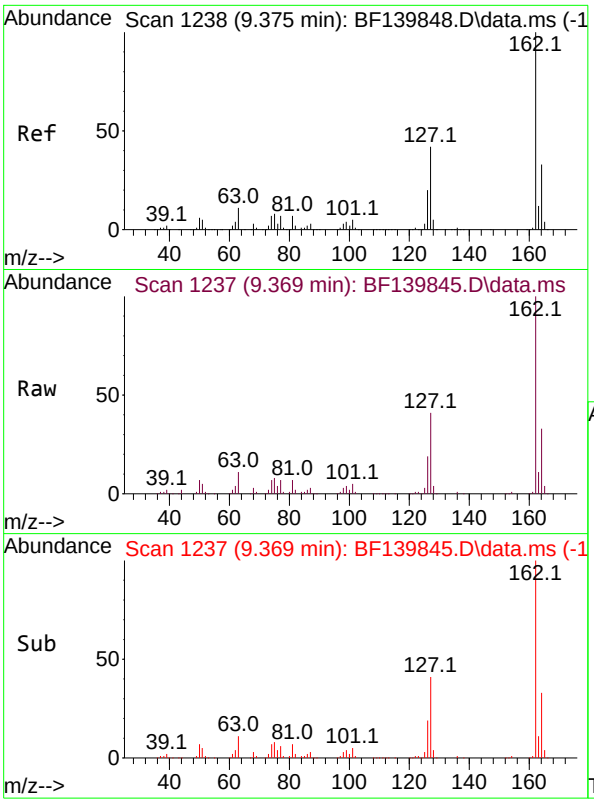


#46
1,1'-Biphenyl
Concen: 5.891 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:154 Resp: 169920

Ion	Ratio	Lower	Upper
154	100		
153	39.7	20.3	60.3
76	14.1	0.0	33.9



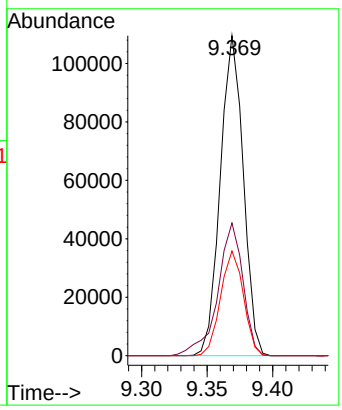


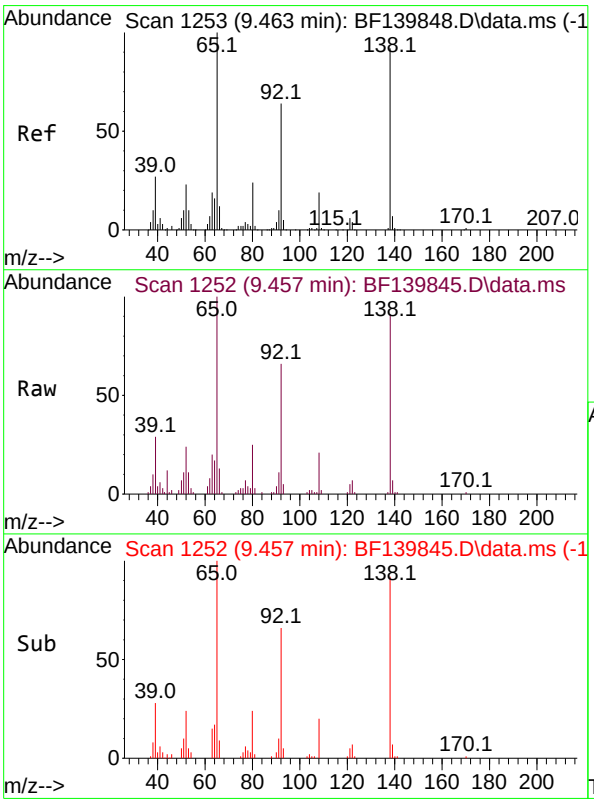
#47
2-Chloronaphthalene
Concen: 5.745 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 133456

Ion	Ratio	Lower	Upper
162	100		
127	41.4	33.8	50.6
164	32.7	26.6	39.8

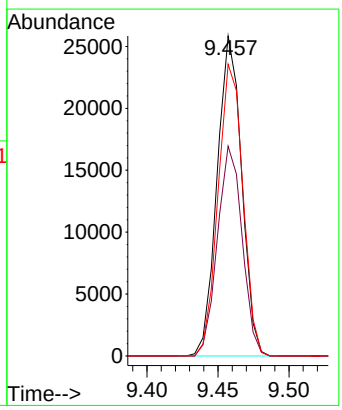


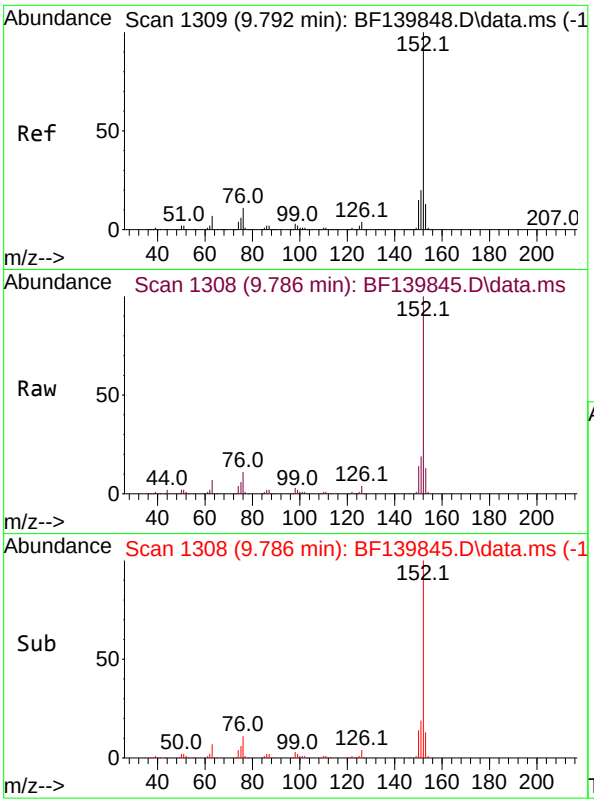


#48
2-Nitroaniline
Concen: 4.363 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion: 65 Resp: 30999

Ion	Ratio	Lower	Upper
65	100		
92	65.6	50.9	76.3
138	91.1	73.4	110.0



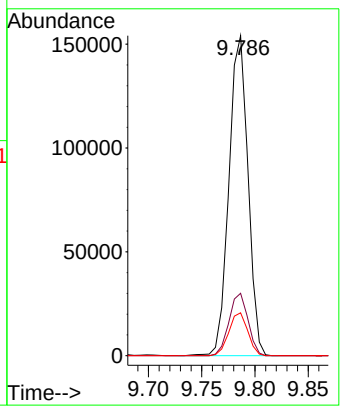


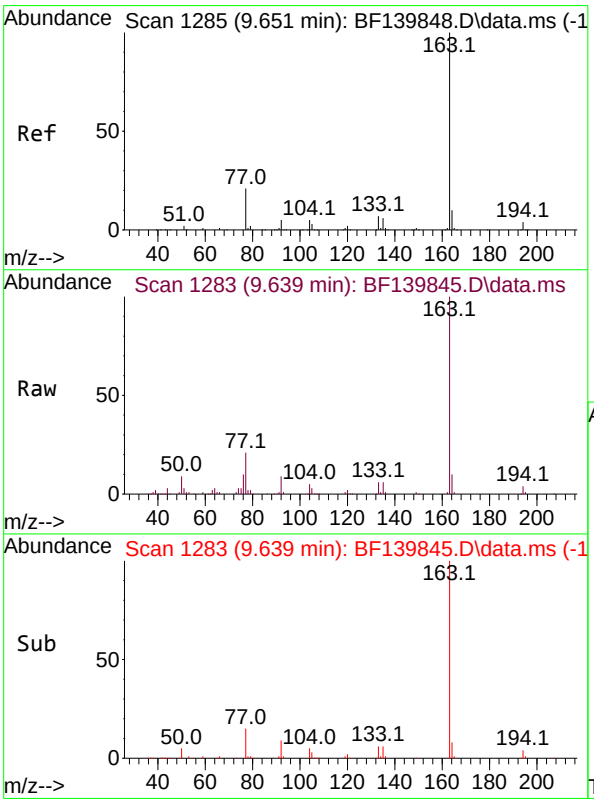
#49
Acenaphthylene
Concen: 5.717 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 192014

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.9	23.9
153	13.4	10.7	16.1

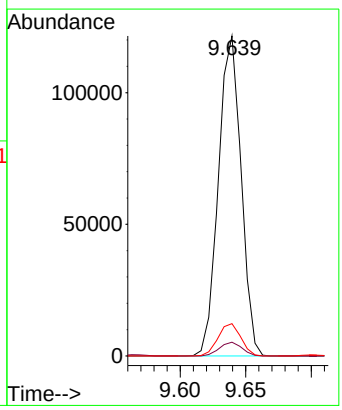


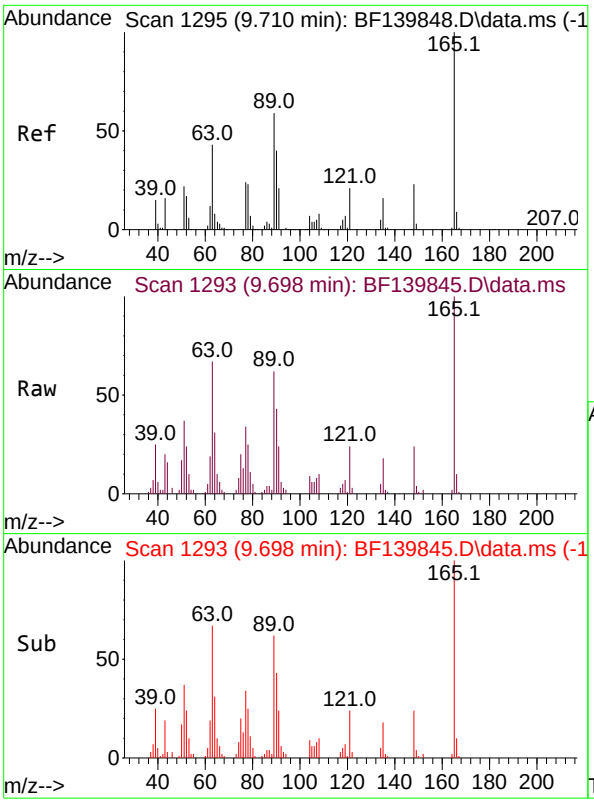


#50
Dimethylphthalate
Concen: 5.661 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:163 Resp: 146096

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.0
164	10.1	8.2	12.2



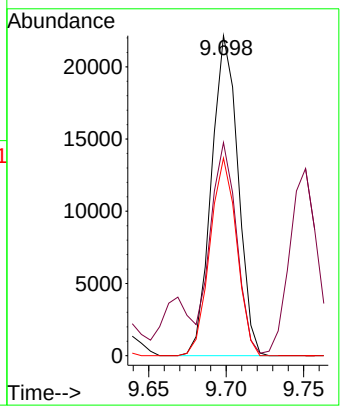


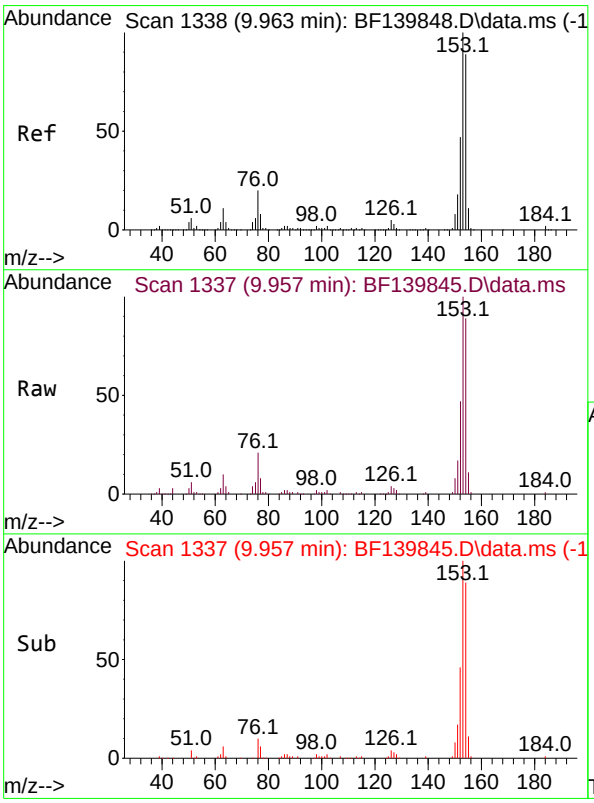
#51
2,6-Dinitrotoluene
Concen: 4.741 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 26490

Ion	Ratio	Lower	Upper
165	100		
63	66.6	50.6	75.8
89	61.8	47.5	71.3

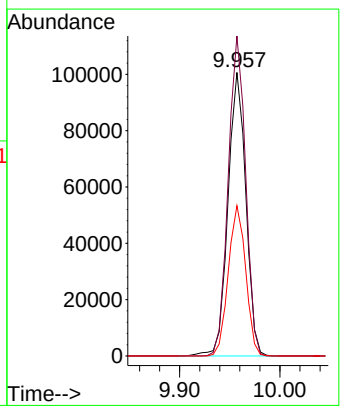


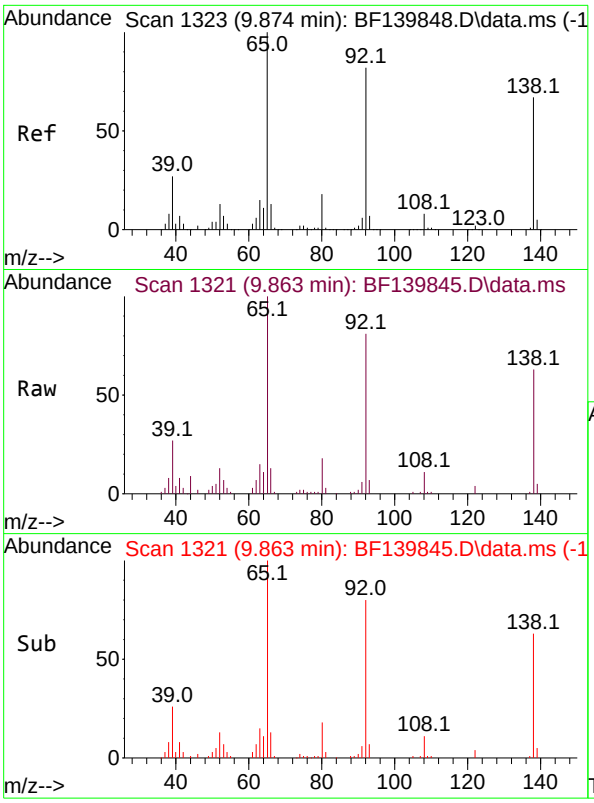


#52
Acenaphthene
Concen: 5.721 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:154 Resp: 124288

Ion	Ratio	Lower	Upper
154	100		
153	112.9	89.8	134.6
152	53.0	42.4	63.6



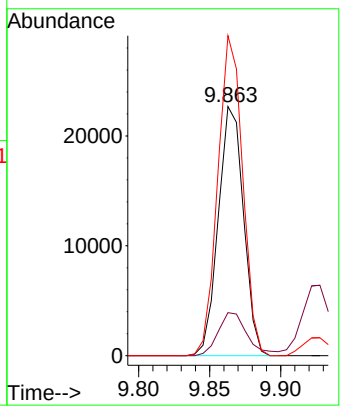


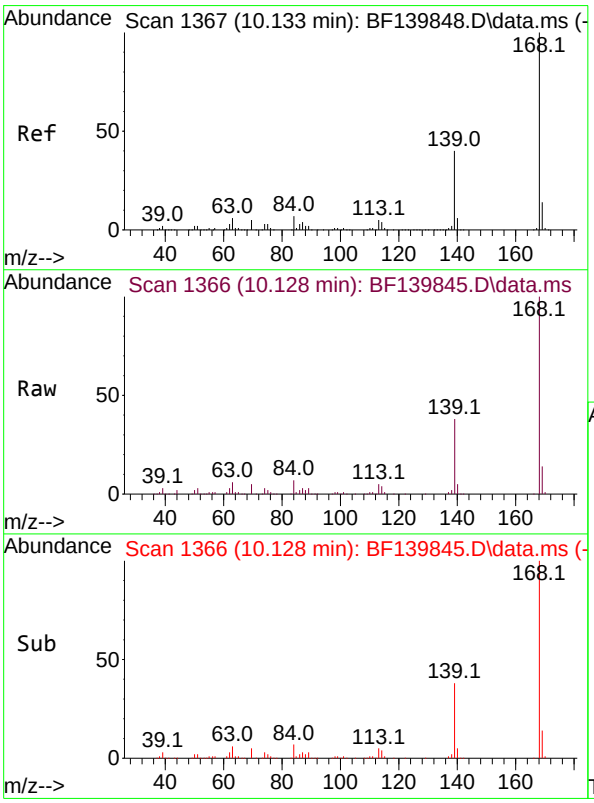
#53
3-Nitroaniline
Concen: 4.858 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 27995

Ion	Ratio	Lower	Upper
138	100		
108	17.3	10.2	15.2#
92	128.5	98.3	147.5

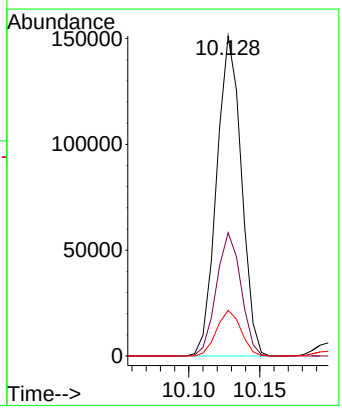


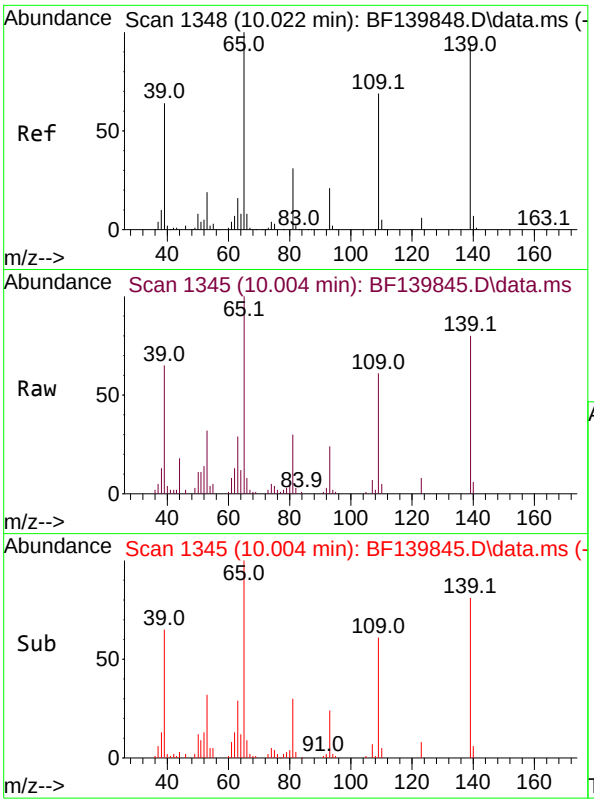


#55
Dibenzofuran
Concen: 5.870 ng
RT: 10.128 min Scan# 1366
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:168 Resp: 182985

Ion	Ratio	Lower	Upper
168	100		
139	38.5	31.8	47.6
169	14.3	11.6	17.4



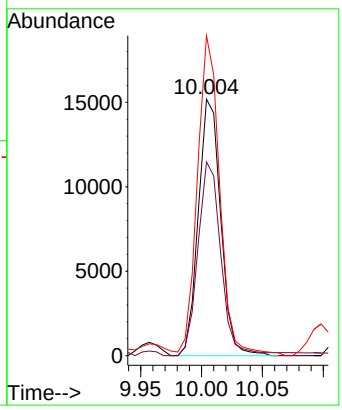


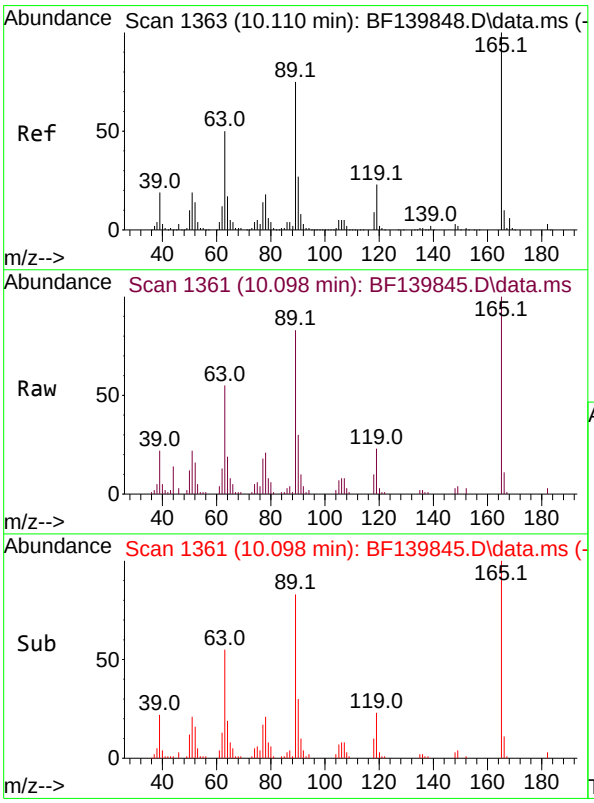
#56
4-Nitrophenol
Concen: 4.376 ng
RT: 10.004 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:139 Resp: 19402

Ion	Ratio	Lower	Upper
139	100		
109	75.6	53.6	93.6
65	124.8	87.8	127.8

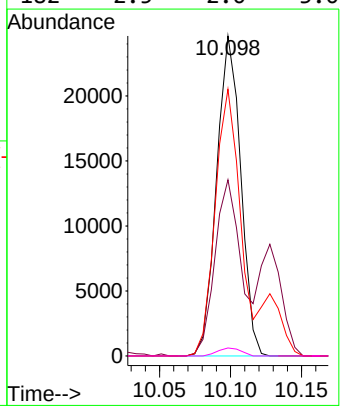


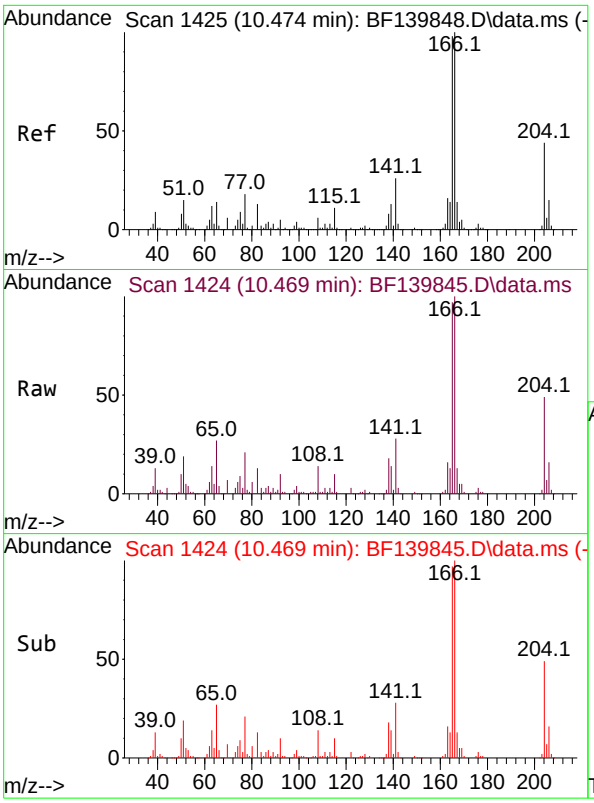


#57
2,4-Dinitrotoluene
Concen: 4.226 ng
RT: 10.098 min Scan# 1361
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:165 Resp: 29038

Ion	Ratio	Lower	Upper
165	100		
63	55.0	40.1	60.1
89	83.3	60.4	90.6
182	2.5	2.0	3.0



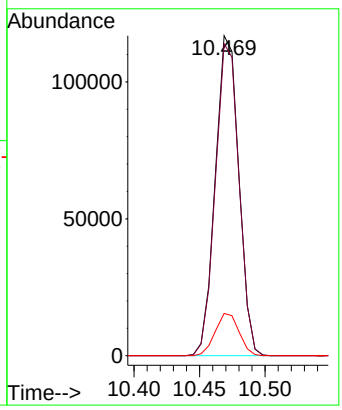


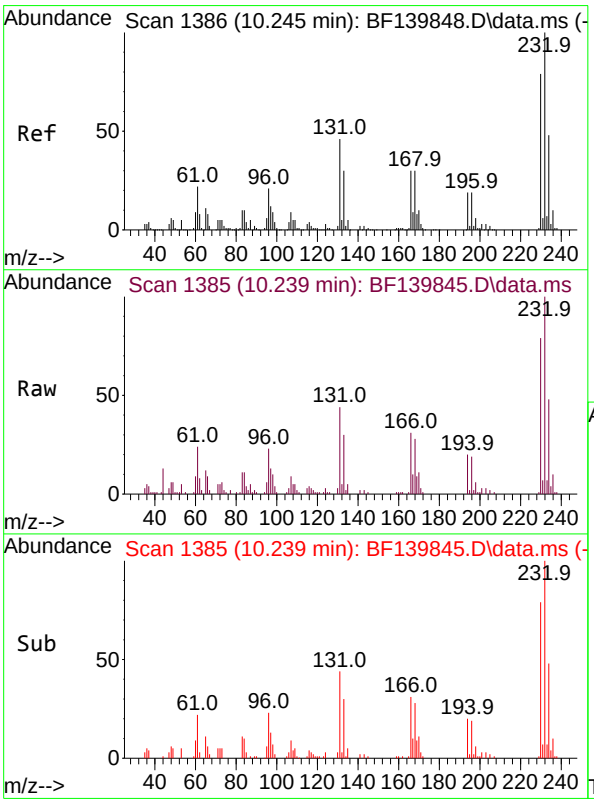
#58
Fluorene
Concen: 6.146 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:166 Resp: 145913

Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.5	117.7
167	13.2	10.9	16.3

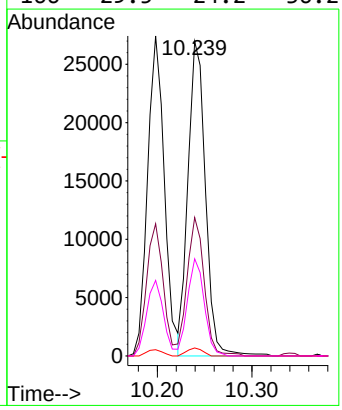


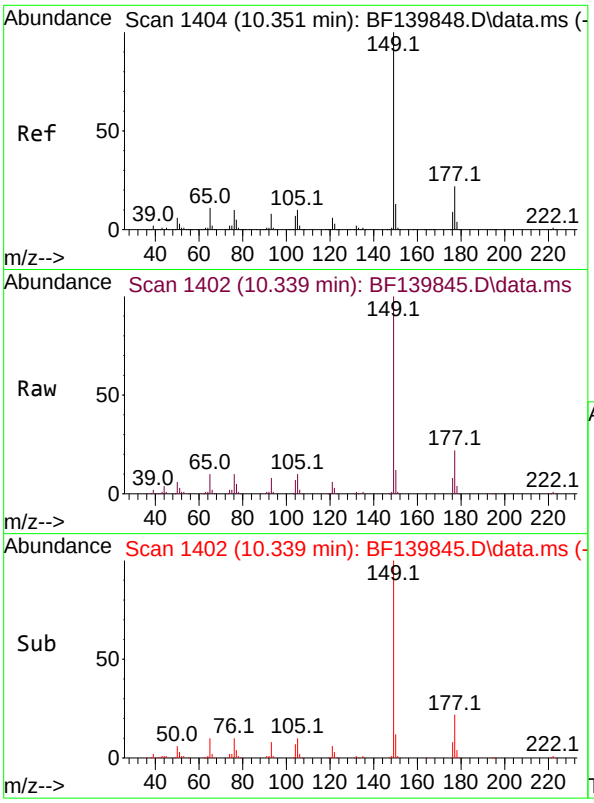


#59
2,3,4,6-Tetrachlorophenol
Concen: 5.411 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:232 Resp: 34636

Ion	Ratio	Lower	Upper
232	100		
131	43.7	37.0	55.6
130	2.3	1.9	2.9
166	29.5	24.2	36.2



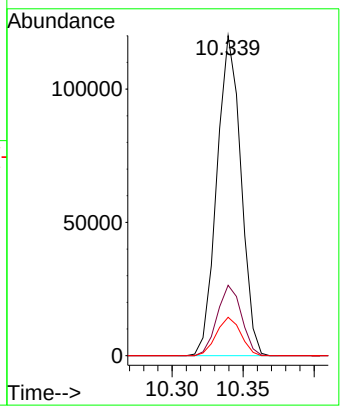


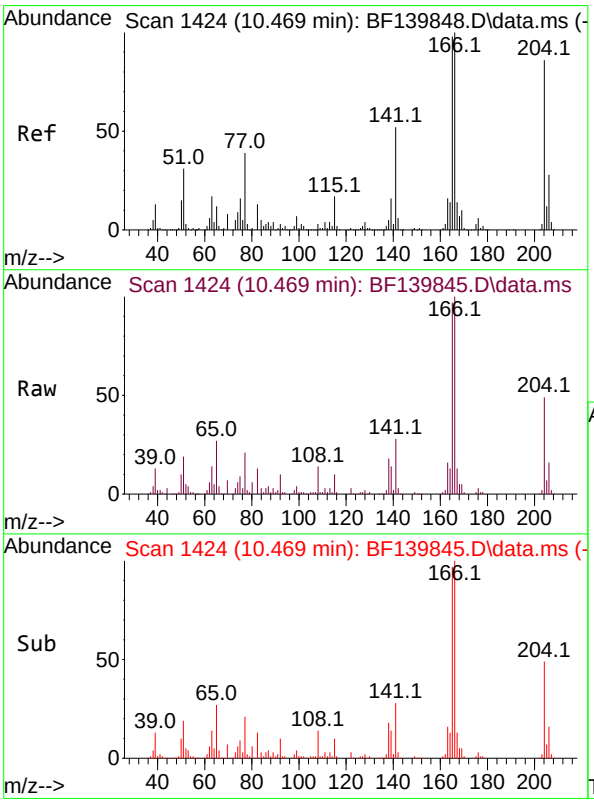
#60
Diethylphthalate
Concen: 5.583 ng
RT: 10.339 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 141466

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.9	26.9
150	12.0	10.1	15.1

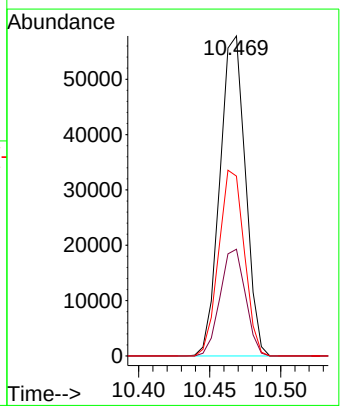


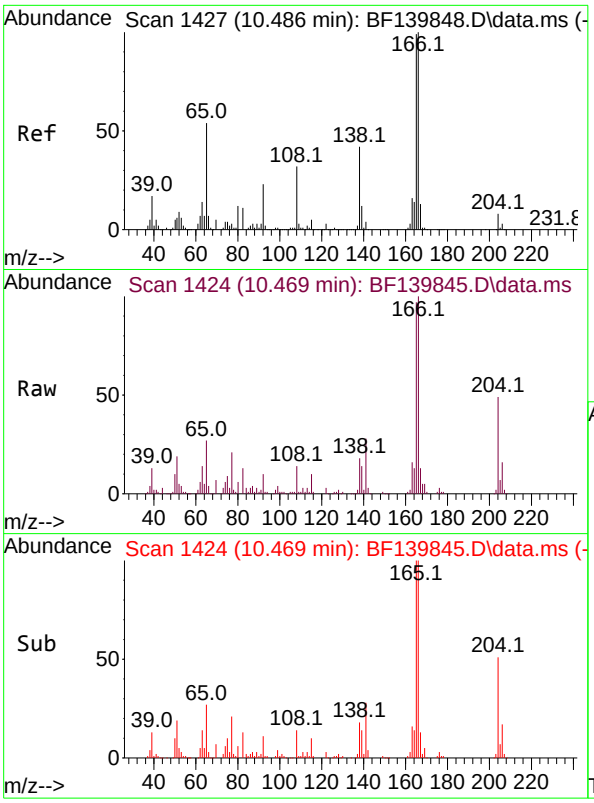


#61
4-Chlorophenyl-phenylether
Concen: 6.033 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:204 Resp: 72331

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.3	39.5
141	56.2	48.6	73.0



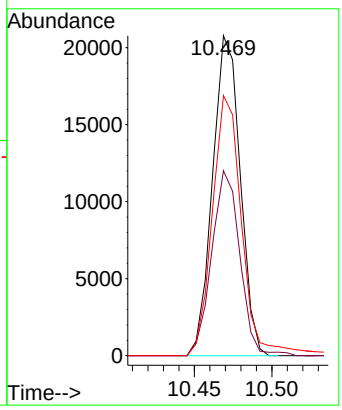


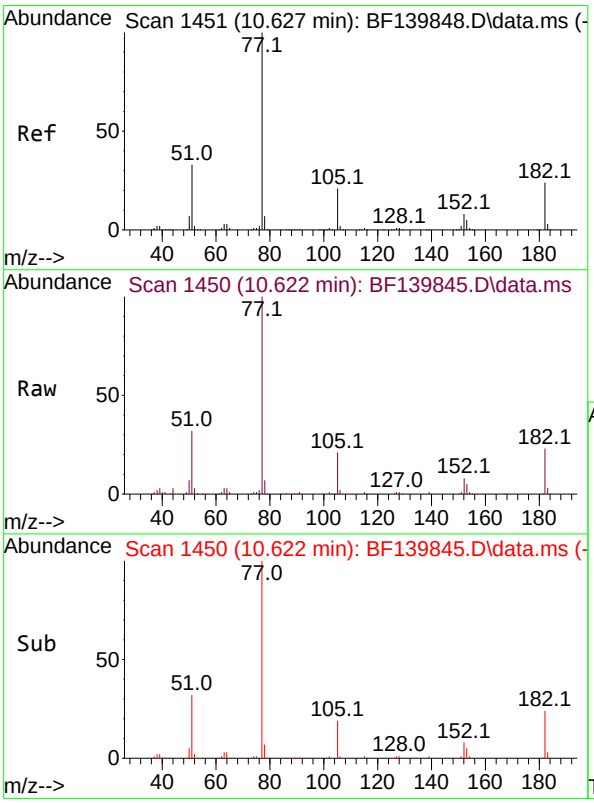
#62
4-Nitroaniline
Concen: 4.731 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 25747

Ion	Ratio	Lower	Upper
138	100		
92	57.8	35.7	75.7
108	81.3	57.5	97.5

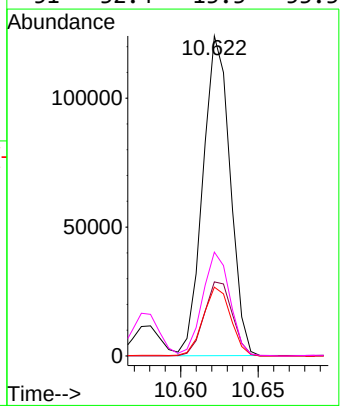


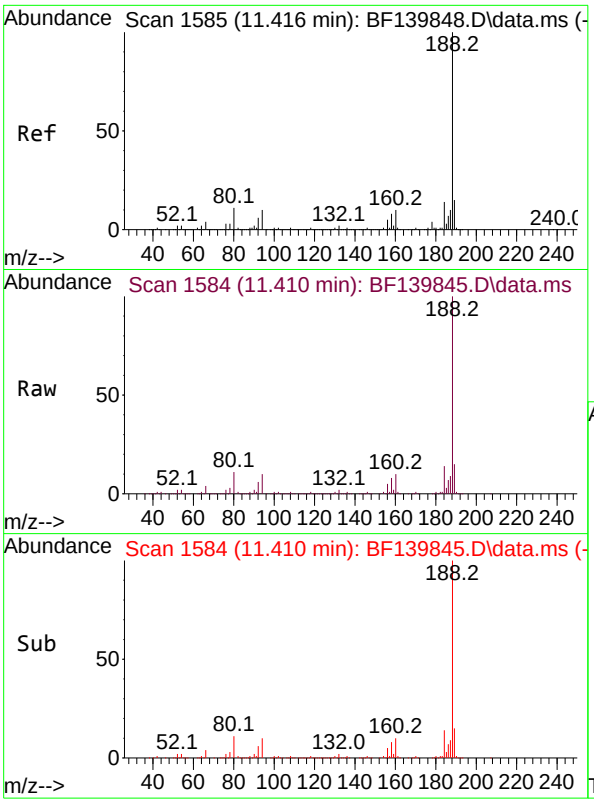


#63
Azobenzene
Concen: 5.627 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion: 77 Resp: 151158

Ion	Ratio	Lower	Upper
77	100		
182	23.2	3.3	43.3
105	21.5	1.2	41.2
51	32.4	13.3	53.3



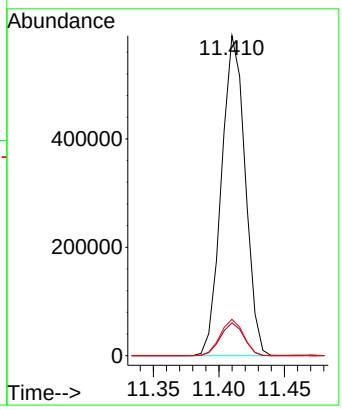


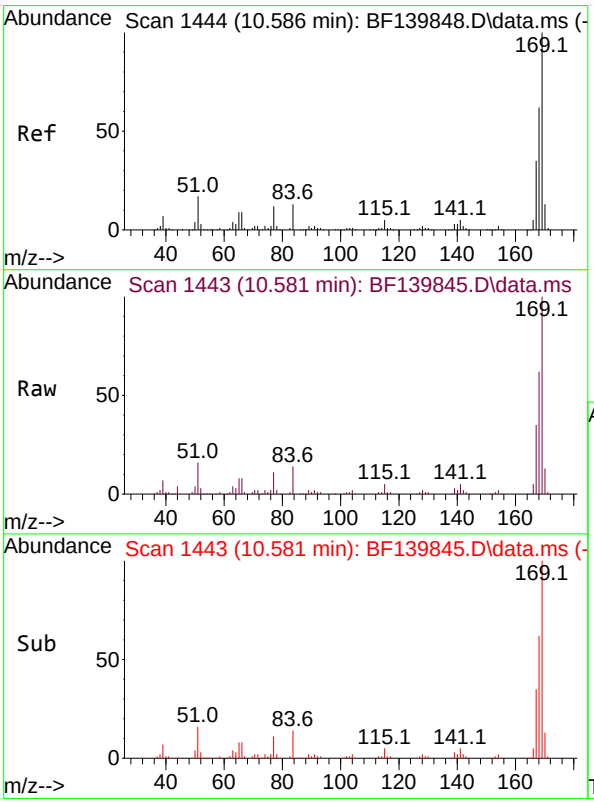
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:188 Resp: 741430

Ion	Ratio	Lower	Upper
188	100		
94	10.2	7.9	11.9
80	11.4	9.0	13.4

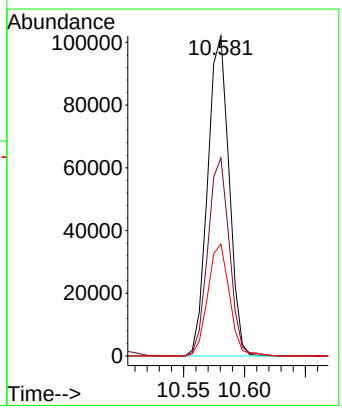


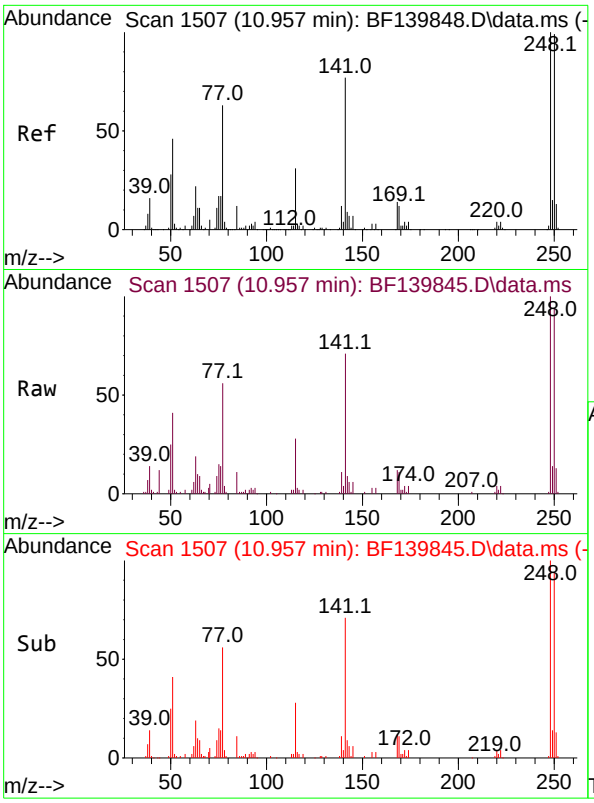


#66
n-Nitrosodiphenylamine
Concen: 5.609 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:169 Resp: 124472

Ion	Ratio	Lower	Upper
169	100		
168	61.9	49.8	74.6
167	35.0	28.0	42.0



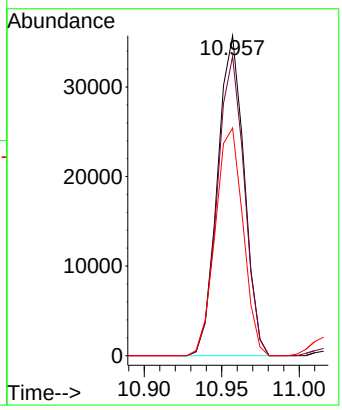


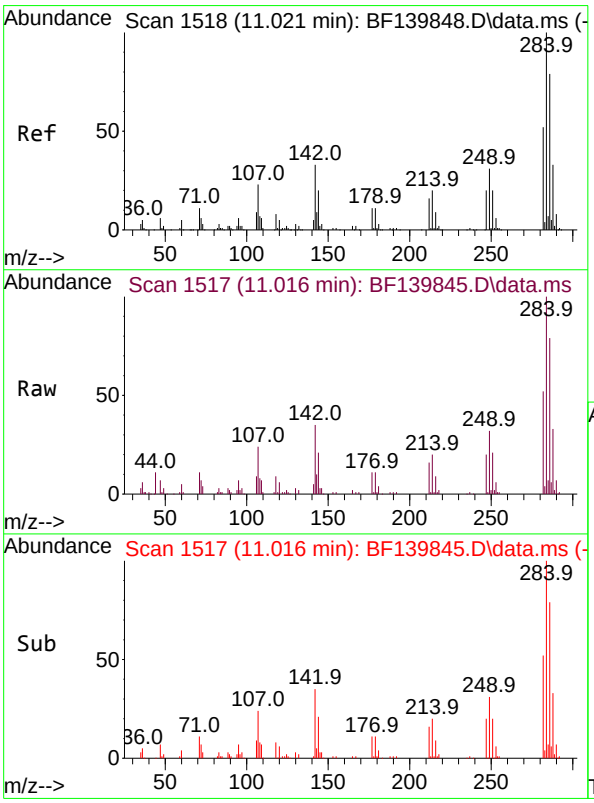
#67
4-Bromophenyl-phenylether
Concen: 5.591 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:248 Resp: 42707

Ion	Ratio	Lower	Upper
248	100		
250	93.5	79.0	118.6
141	71.1	61.7	92.5

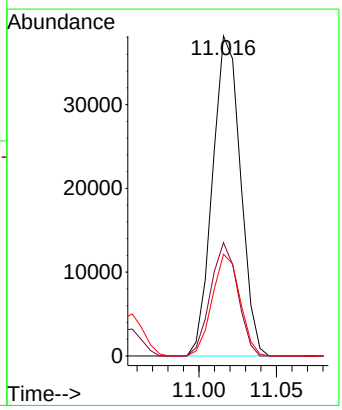


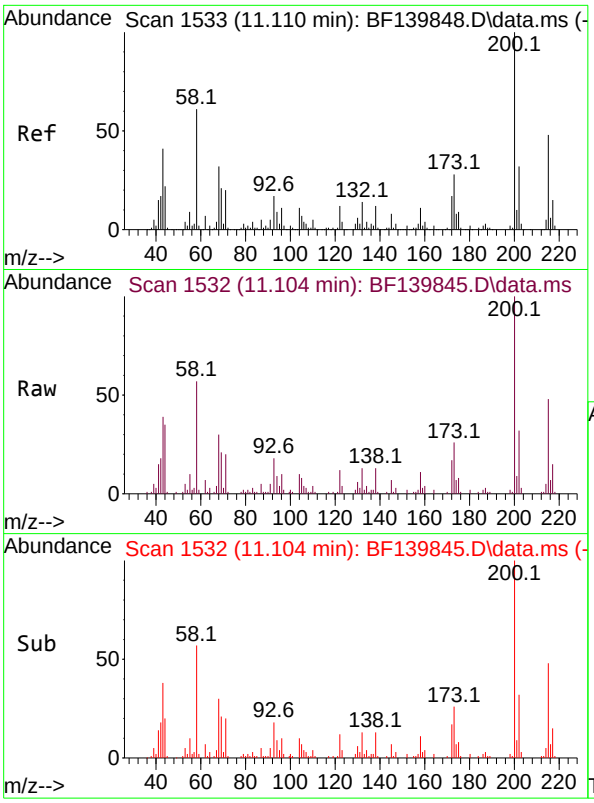


#68
Hexachlorobenzene
Concen: 5.575 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:284 Resp: 47895

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.9	40.3
249	31.8	25.3	37.9



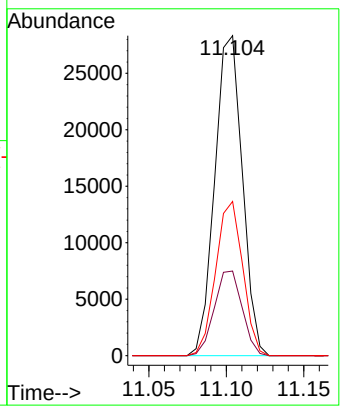


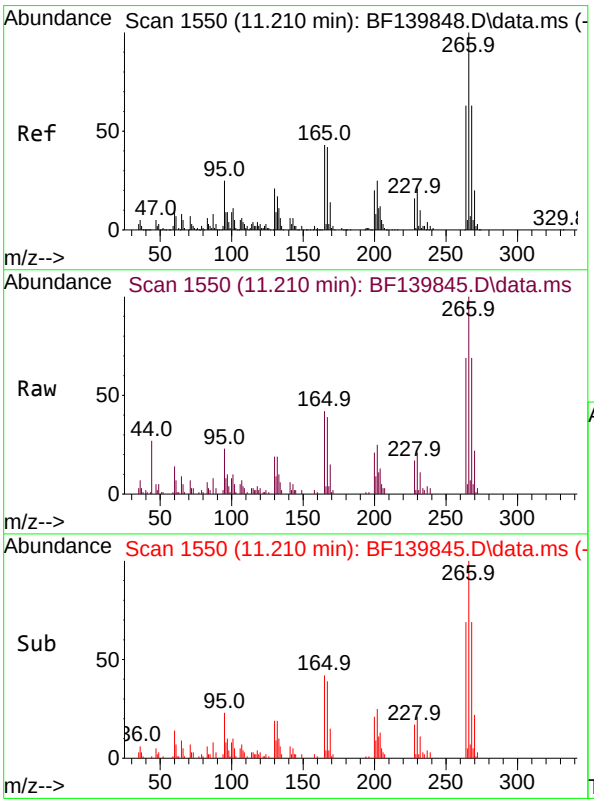
#69
Atrazine
Concen: 5.835 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:200 Resp: 35075

Ion	Ratio	Lower	Upper
200	100		
173	26.4	7.7	47.7
215	48.2	27.7	67.7

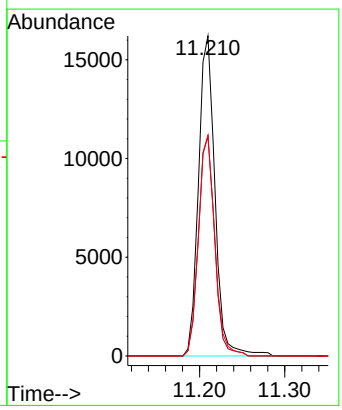


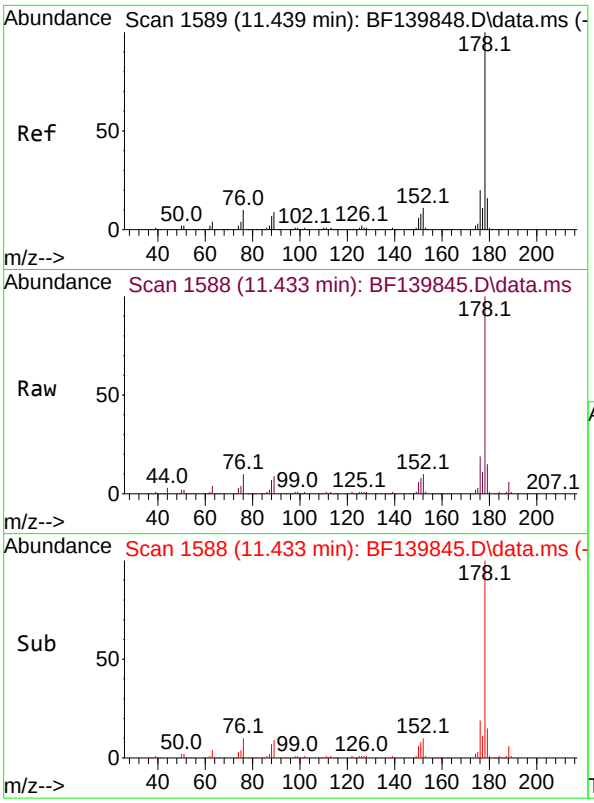


#70
Pentachlorophenol
Concen: 4.178 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:266 Resp: 21781

Ion	Ratio	Lower	Upper
266	100		
268	68.6	50.4	75.6
264	68.9	50.6	75.8



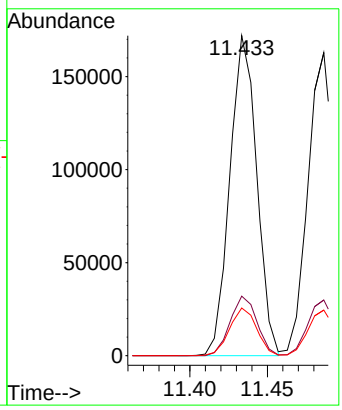


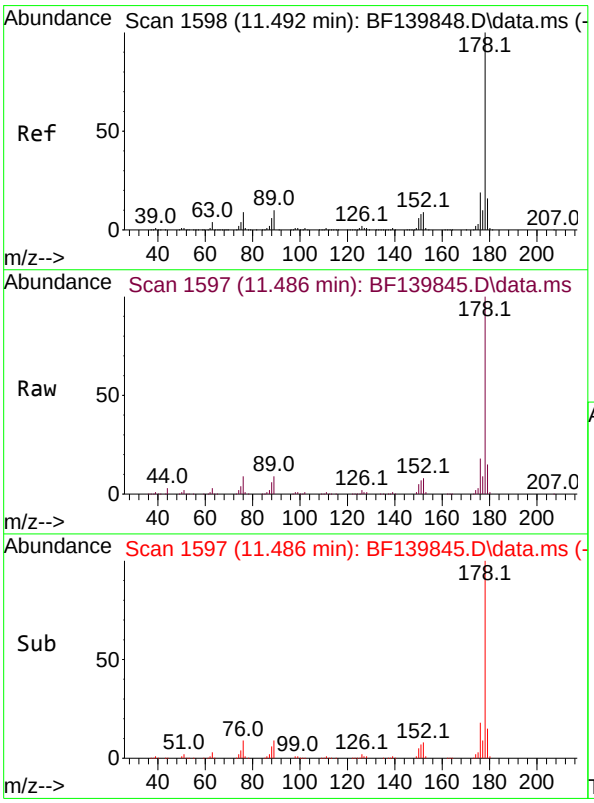
#71
Phenanthrene
Concen: 5.931 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 207716

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.8	23.6
179	14.9	12.6	18.8

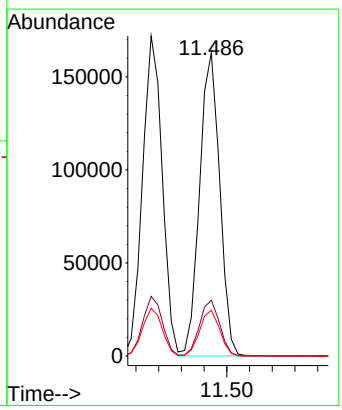


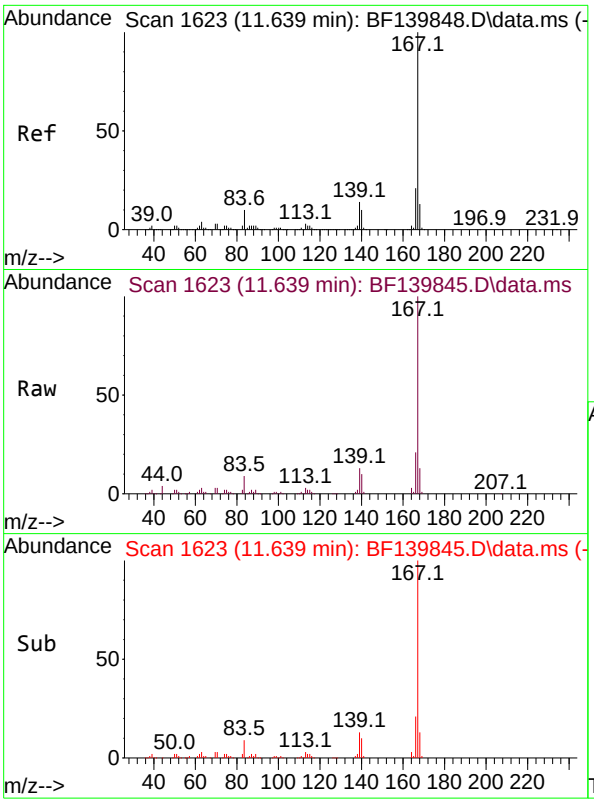


#72
Anthracene
Concen: 5.871 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:178 Resp: 200621

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.3	22.9
179	15.0	12.4	18.6



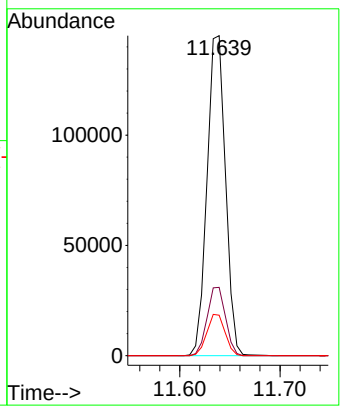


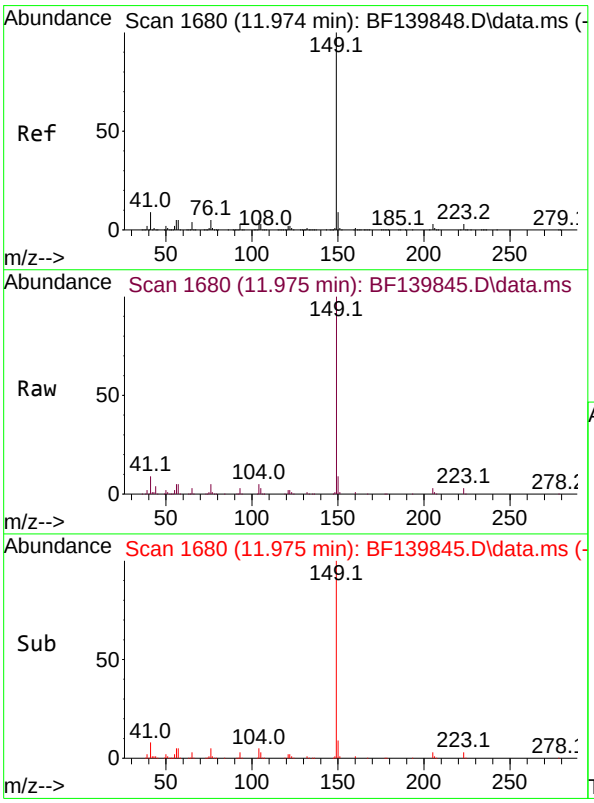
#73
Carbazole
Concen: 5.845 ng
RT: 11.639 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:167 Resp: 185743

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.0	25.6
139	12.7	10.8	16.2

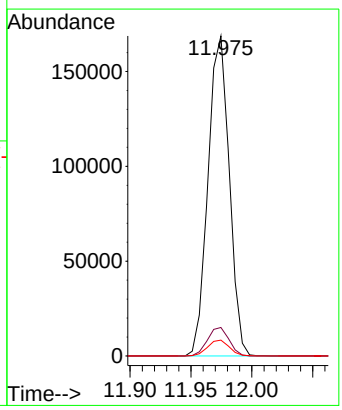


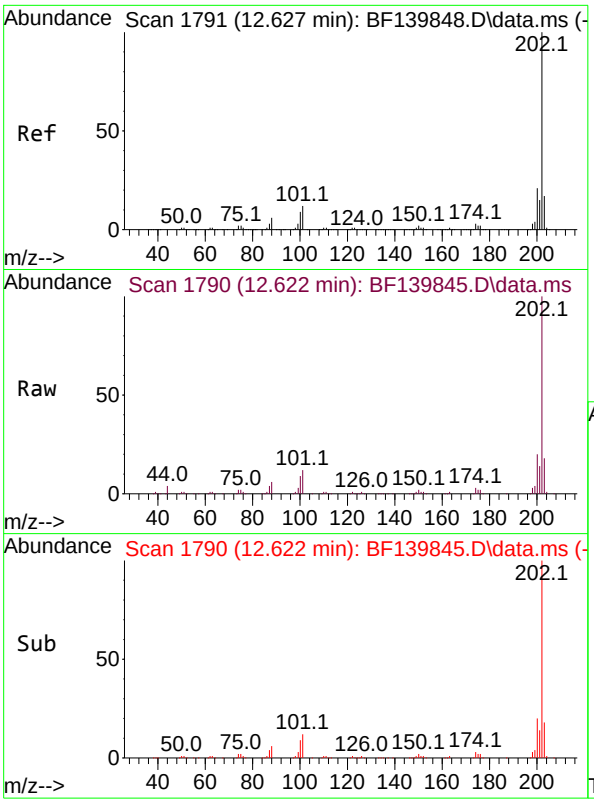


#74
Di-n-butylphthalate
Concen: 5.574 ng
RT: 11.975 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:149 Resp: 204647

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.5	11.3
104	5.0	4.1	6.1



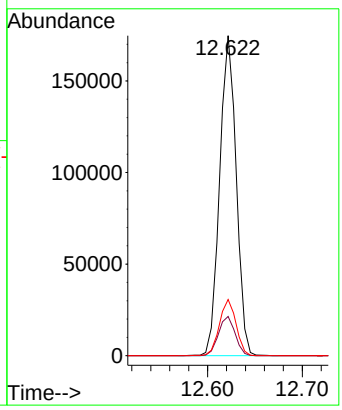


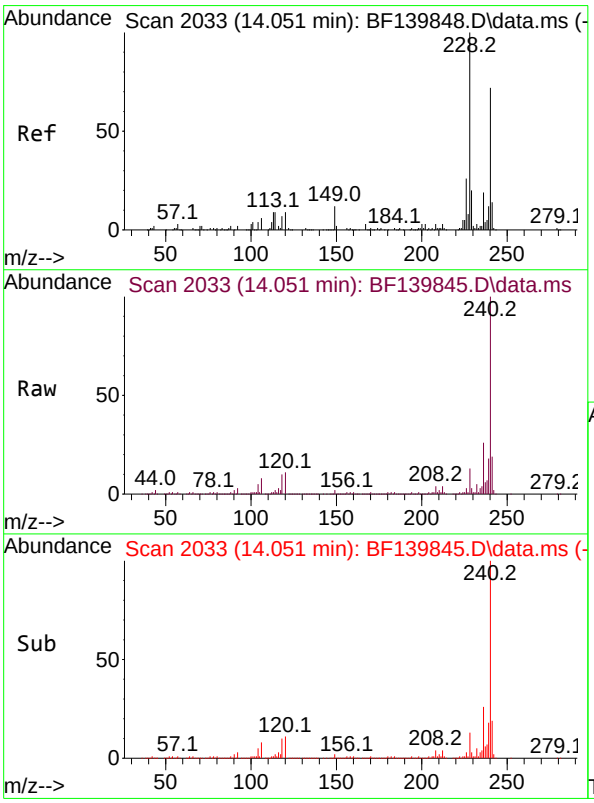
#75
Fluoranthene
Concen: 6.017 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 213038

Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	31.9
203	17.5	0.0	37.5

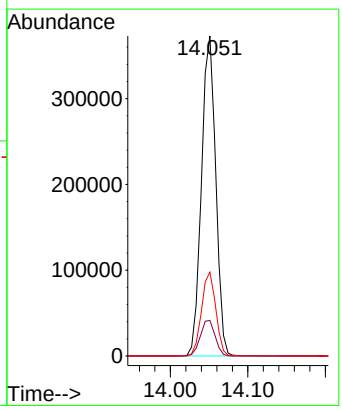


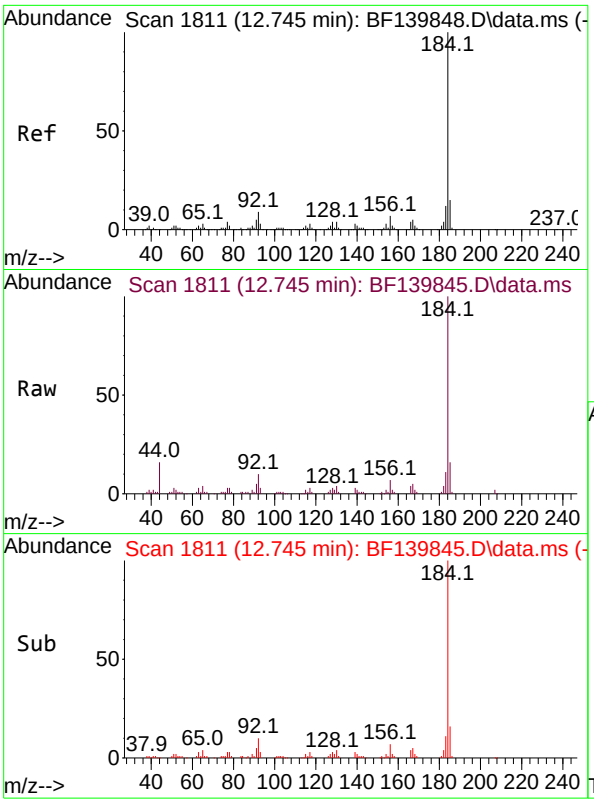


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:240 Resp: 477223

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.4	14.2
236	26.2	20.9	31.3



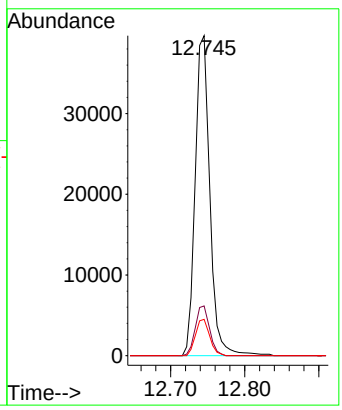


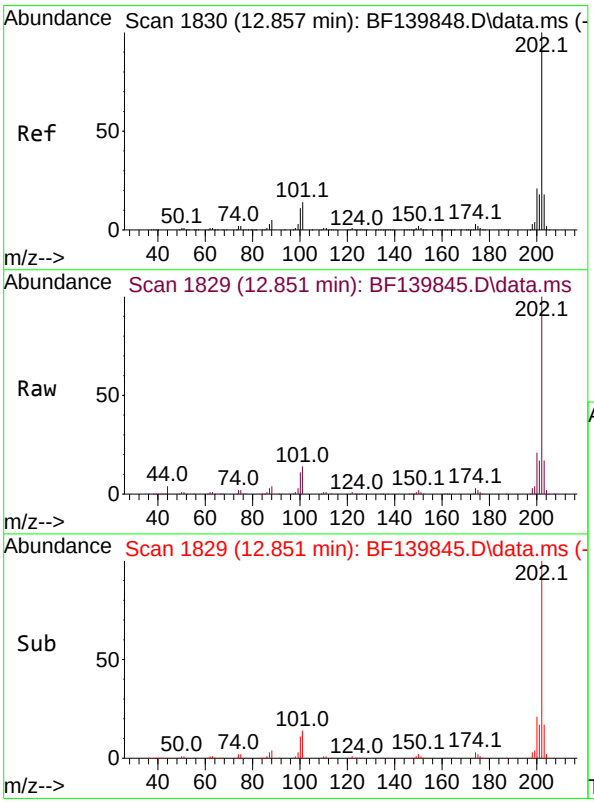
#77
Benzidine
Concen: 7.022 ng
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:184 Resp: 54501

Ion	Ratio	Lower	Upper
184	100		
185	15.5	12.0	18.0
183	11.4	9.4	14.2

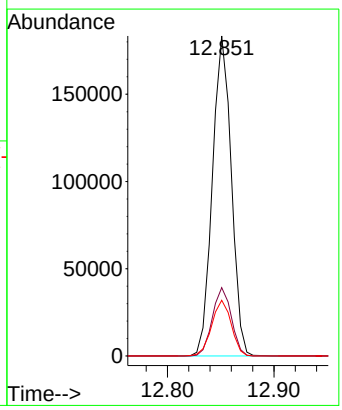


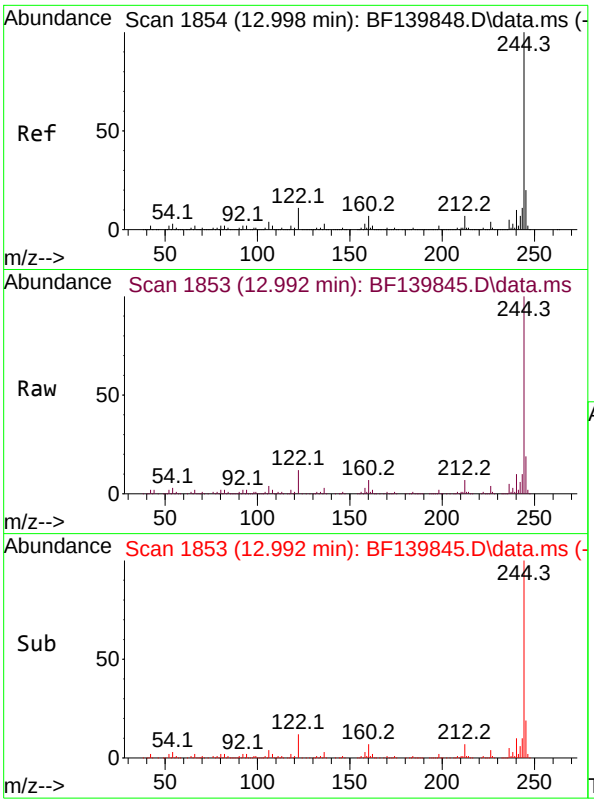


#78
Pyrene
Concen: 5.404 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:202 Resp: 225742

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.2	25.8
203	17.4	14.2	21.4



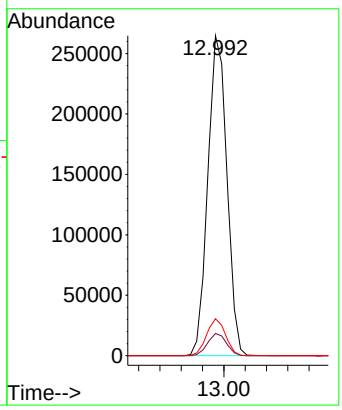


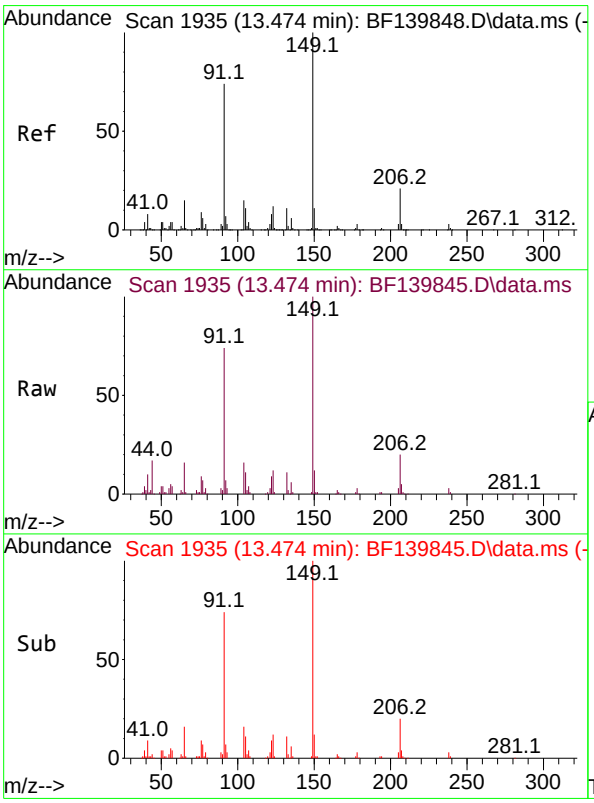
#79
Terphenyl-d14
Concen: 11.248 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:244 Resp: 329424

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.7	8.5
122	11.6	8.6	13.0

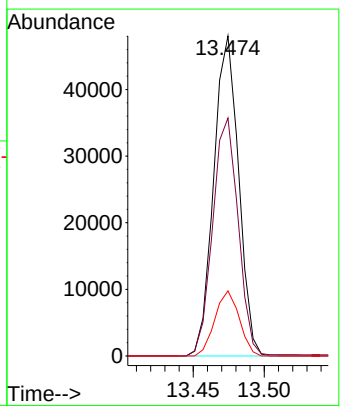


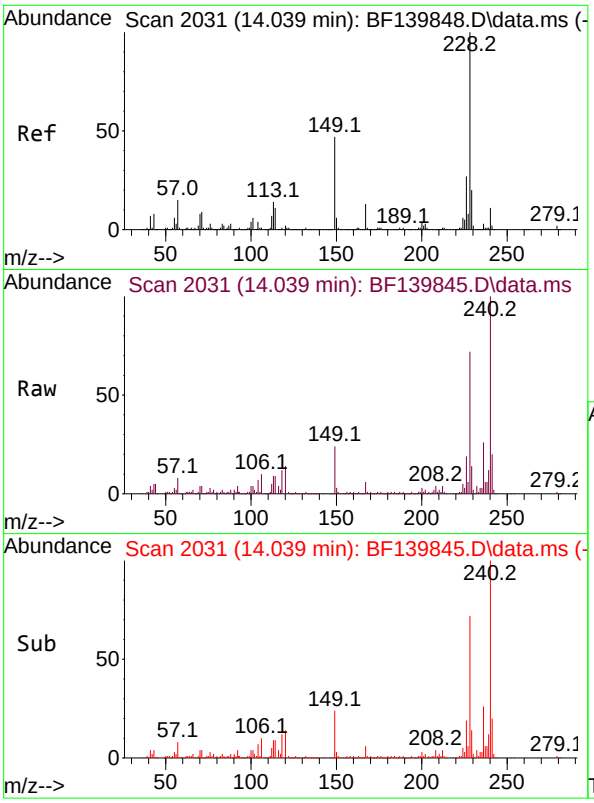


#80
Butylbenzylphthalate
Concen: 4.671 ng
RT: 13.474 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:149 Resp: 58502

Ion	Ratio	Lower	Upper
149	100		
91	74.4	59.4	89.2
206	20.3	16.4	24.6



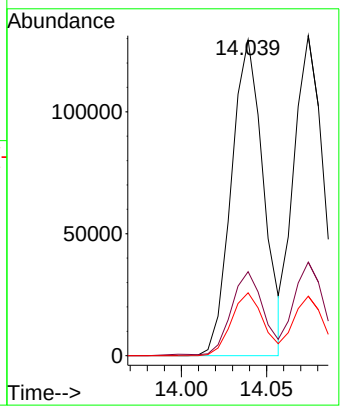


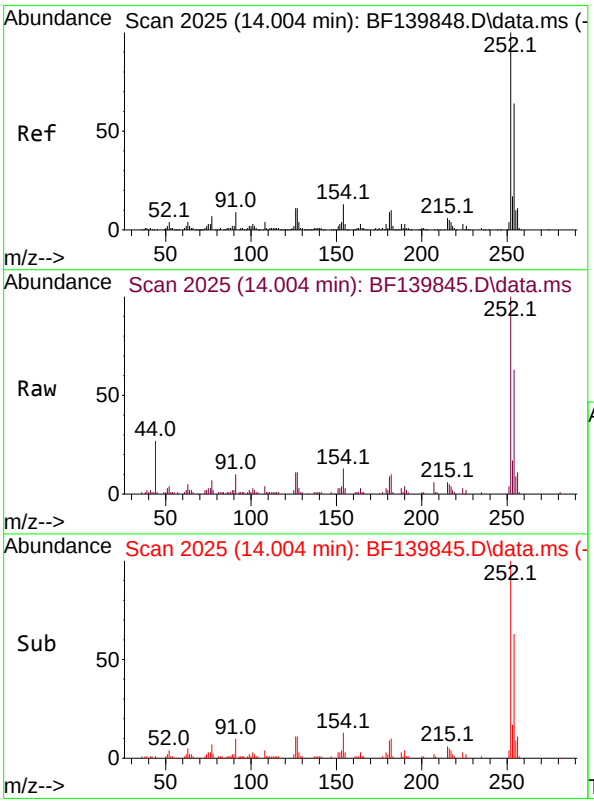
#81
Benzo(a)anthracene
Concen: 5.473 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 170026

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.6	32.4
229	19.9	16.1	24.1

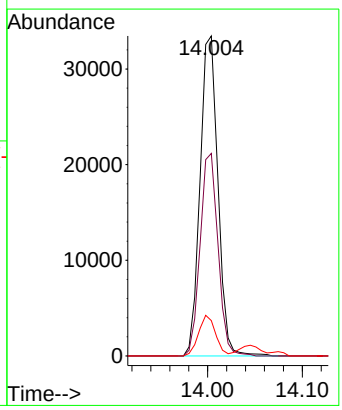


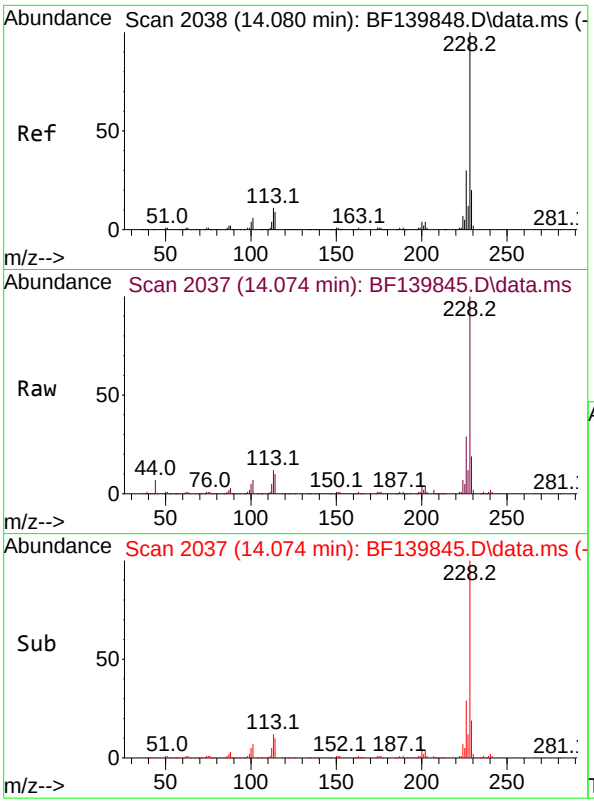


#82
3,3'-Dichlorobenzidine
Concen: 4.851 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:252 Resp: 43937

Ion	Ratio	Lower	Upper
252	100		
254	63.3	50.8	76.2
126	11.1	8.9	13.3



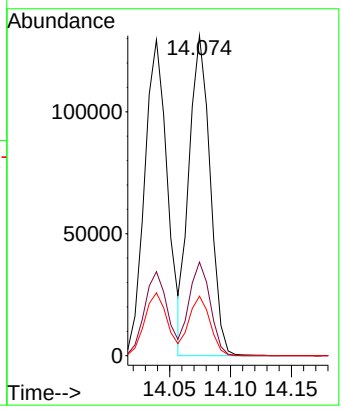


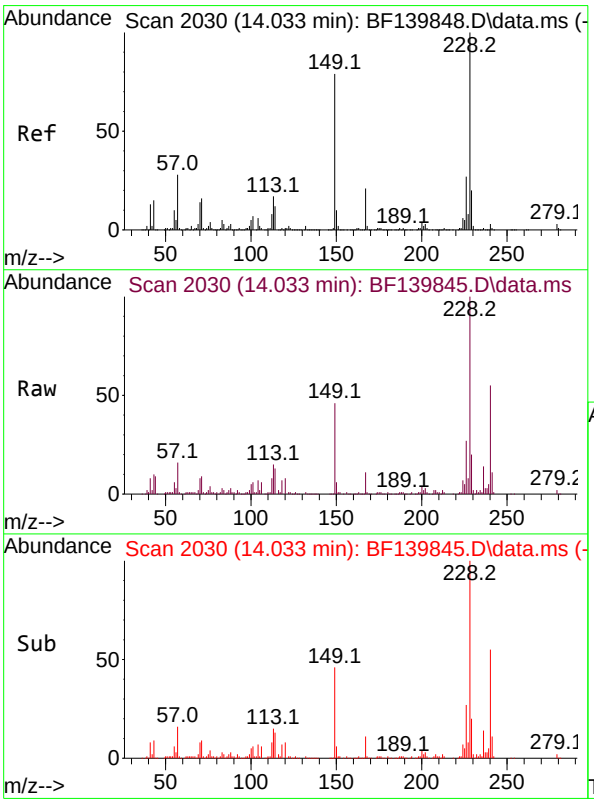
#83
Chrysene
Concen: 5.551 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 158121

Ion	Ratio	Lower	Upper
228	100		
226	29.3	24.1	36.1
229	18.6	15.8	23.6

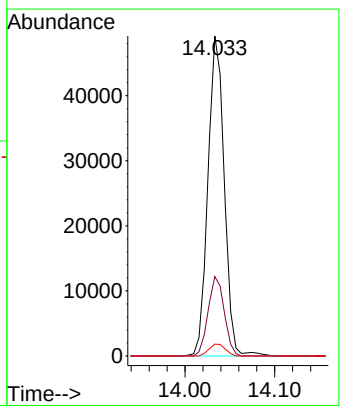


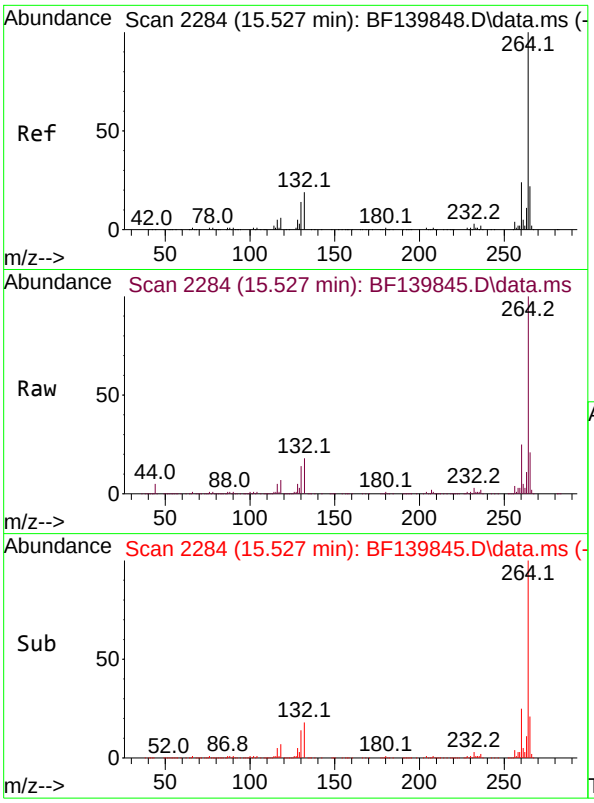


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.419 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:149 Resp: 62085

Ion	Ratio	Lower	Upper
149	100		
167	24.8	21.4	32.0
279	3.7	3.0	4.4



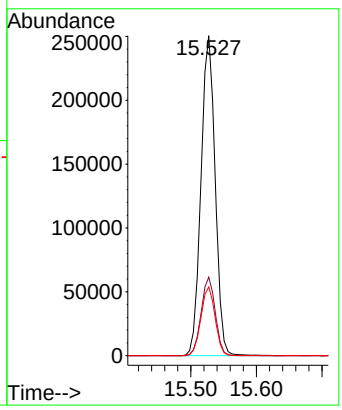


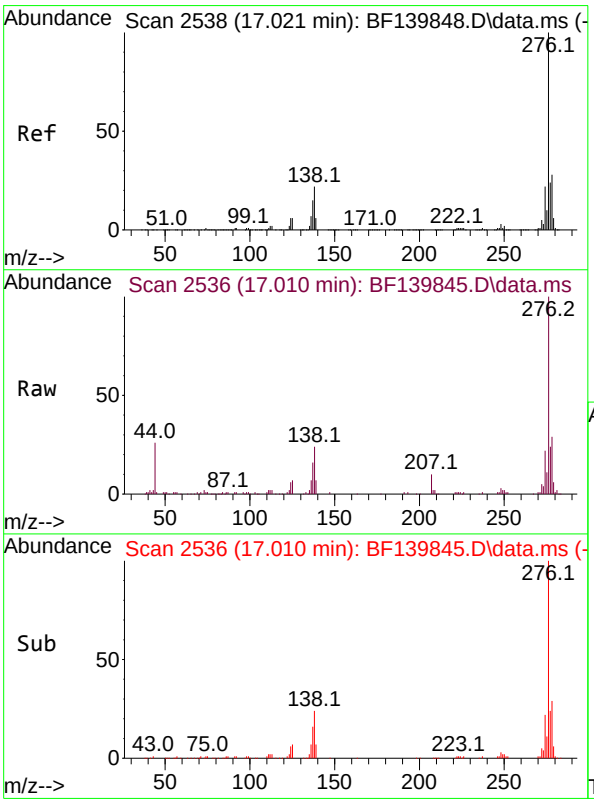
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:264 Resp: 377685

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	21.5	17.4	26.0

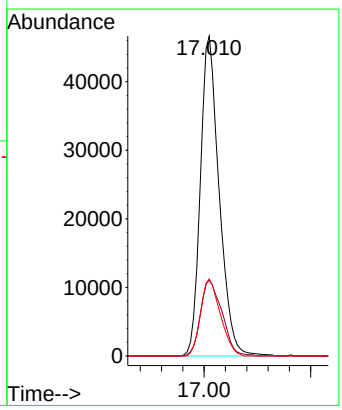


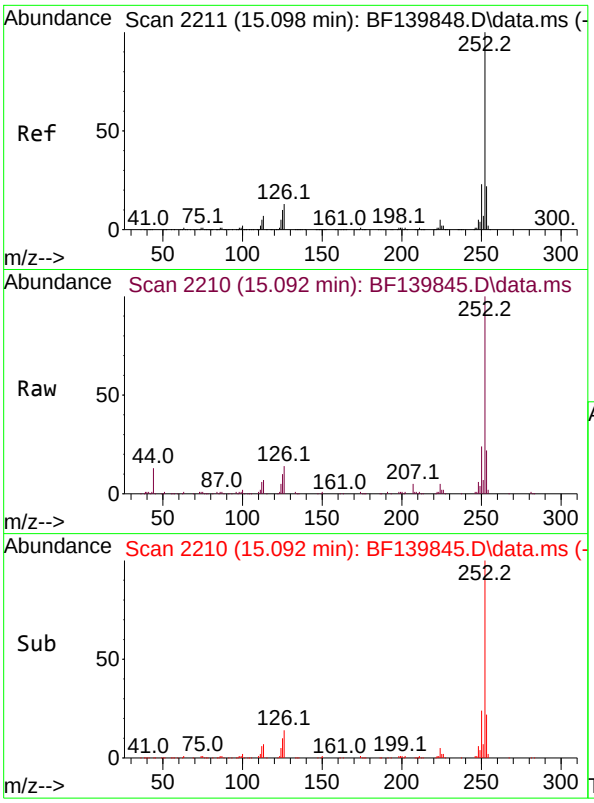


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.699 ng
RT: 17.010 min Scan# 2536
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:276 Resp: 114185

Ion	Ratio	Lower	Upper
276	100		
138	27.1	20.4	30.6
277	25.3	20.2	30.4



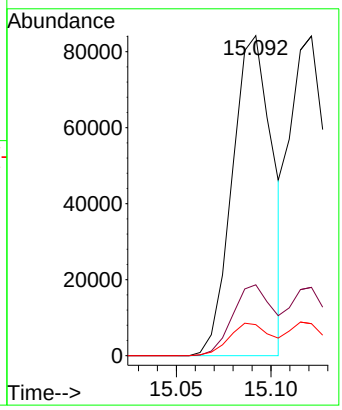


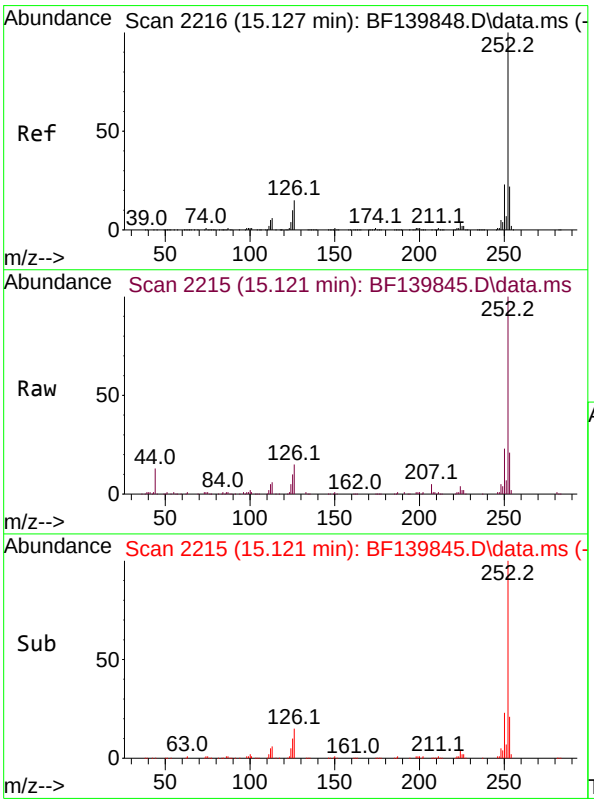
#88
Benzo(b)fluoranthene
Concen: 5.405 ng
RT: 15.092 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 124353

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	9.7	7.9	11.9

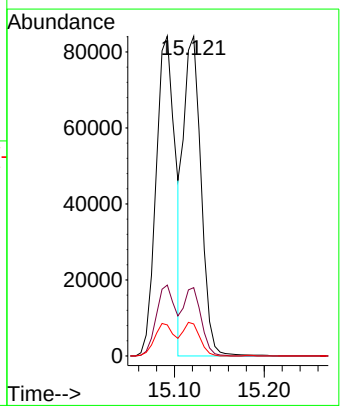


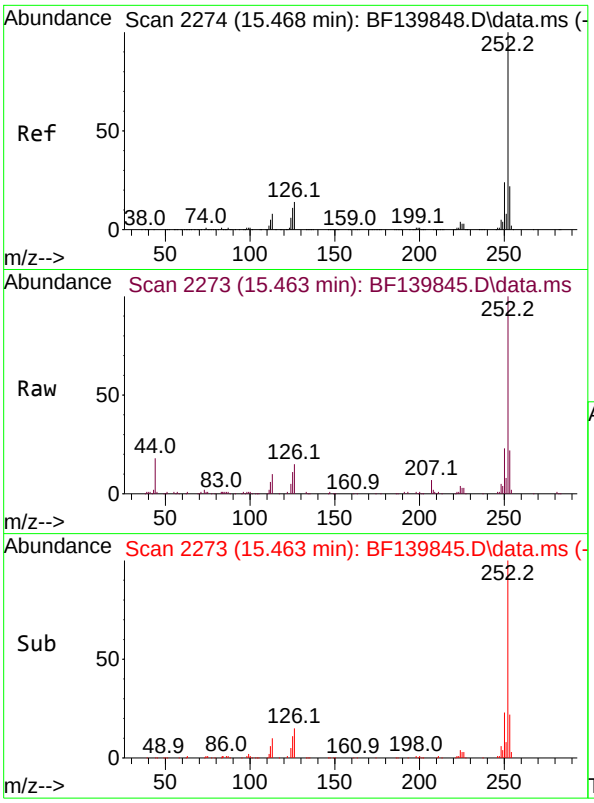


#89
Benzo(k)fluoranthene
Concen: 5.772 ng
RT: 15.121 min Scan# 2215
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:252 Resp: 114525

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.6	26.4
125	10.0	7.9	11.9



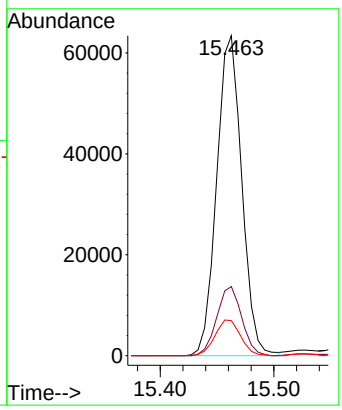


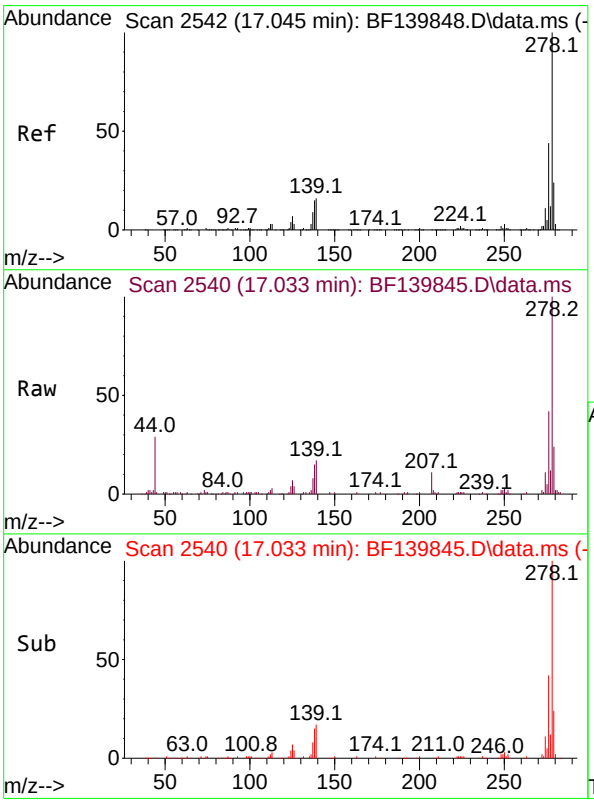
#90
Benzo(a)pyrene
Concen: 5.137 ng
RT: 15.463 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 97243

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9
125	10.9	8.7	13.1

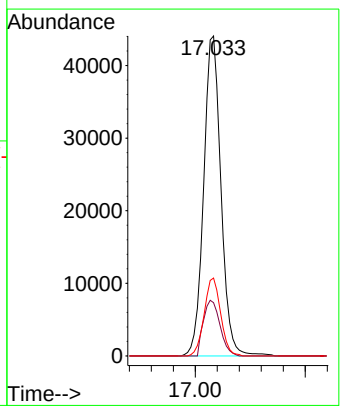


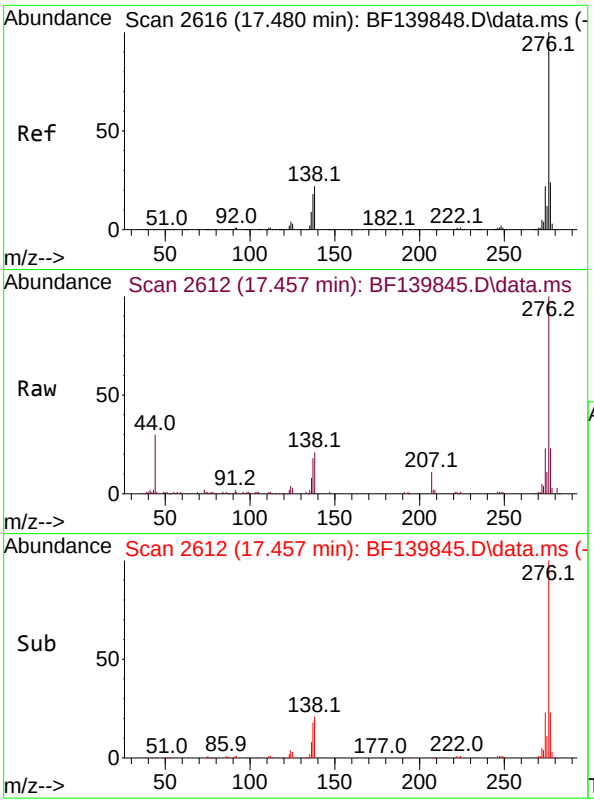


#91
Dibenzo(a,h)anthracene
Concen: 4.757 ng
RT: 17.033 min Scan# 2540
Delta R.T. -0.012 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Tgt Ion:278 Resp: 96416

Ion	Ratio	Lower	Upper
278	100		
139	16.6	13.1	19.7
279	24.4	19.0	28.4



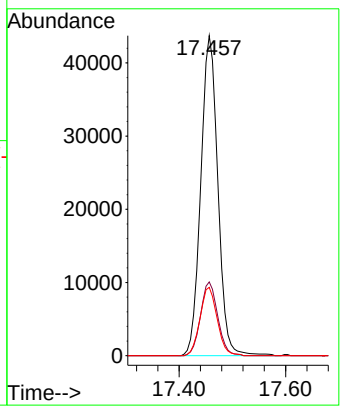


#92
Benzo(g,h,i)perylene
Concen: 4.805 ng
RT: 17.457 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF139845.D
Acq: 18 Oct 2024 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 97292

Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.0	28.6
138	21.3	17.4	26.0



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139846.D
Acq On : 18 Oct 2024 11:23
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Oct 18 14:17:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	188831	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	733621	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	411556	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	732661	20.000	ng		0.00
76) Chrysene-d12	14.051	240	452443	20.000	ng		0.00
86) Perylene-d12	15.527	264	375863	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	264054	21.891	ng		0.00
7) Phenol-d6	6.498	99	343334	21.977	ng		-0.01
23) Nitrobenzene-d5	7.445	82	268128	20.257	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	80655	20.952	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	574563	23.073	ng		0.00
79) Terphenyl-d14	12.998	244	603787	21.745	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	58969	10.485	ng		97
3) Pyridine	3.440	79	148260	10.636	ng		97
4) n-Nitrosodimethylamine	3.375	42	75504	10.081	ng		96
6) Aniline	6.546	93	155680	10.692	ng		98
8) 2-Chlorophenol	6.669	128	134290	10.890	ng		99
9) Benzaldehyde	6.440	77	107330	12.213	ng		98
10) Phenol	6.510	94	172965	10.549	ng		98
11) bis(2-Chloroethyl)ether	6.616	93	134367	10.794	ng		100
12) 1,3-Dichlorobenzene	6.828	146	156338	11.045	ng		99
13) 1,4-Dichlorobenzene	6.904	146	154957	10.957	ng		99
14) 1,2-Dichlorobenzene	7.057	146	149129	11.299	ng		98
15) Benzyl Alcohol	7.022	79	122669	10.704	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	227443	10.715	ng		99
17) 2-Methylphenol	7.128	107	109901	10.452	ng		98
18) Hexachloroethane	7.404	117	53892	10.686	ng		99
19) n-Nitroso-di-n-propyla...	7.293	70	100635	10.621	ng		98
20) 3+4-Methylphenols	7.275	107	148497	11.041	ng	#	90
22) Acetophenone	7.293	105	195595	10.885	ng		96
24) Nitrobenzene	7.463	77	147356	10.154	ng		98
25) Isophorone	7.698	82	260247	10.359	ng		98
26) 2-Nitrophenol	7.781	139	50159	9.162	ng		100
27) 2,4-Dimethylphenol	7.810	122	94947	10.400	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	161423	10.605	ng		99
29) 2,4-Dichlorophenol	8.016	162	109102	10.492	ng		100
30) 1,2,4-Trichlorobenzene	8.110	180	121232	10.537	ng		99
31) Naphthalene	8.192	128	411053	10.864	ng		99
32) Benzoic acid	7.869	122	64294	8.075	ng		99
33) 4-Chloroaniline	8.234	127	140021	10.853	ng		100
34) Hexachlorobutadiene	8.310	225	75740	10.477	ng		99
35) Caprolactam	8.569	113	33908	10.256	ng		99
36) 4-Chloro-3-methylphenol	8.704	107	120339	10.452	ng		98
37) 2-Methylnaphthalene	8.881	142	252554	10.899	ng		99
38) 1-Methylnaphthalene	8.981	142	250609	11.023	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	119227	10.738	ng		99
41) Hexachlorocyclopentadiene	9.039	237	39754	10.290	ng		98
43) 2,4,6-Trichlorophenol	9.151	196	78578	9.996	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139846.D
Acq On : 18 Oct 2024 11:23
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Oct 18 14:17:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

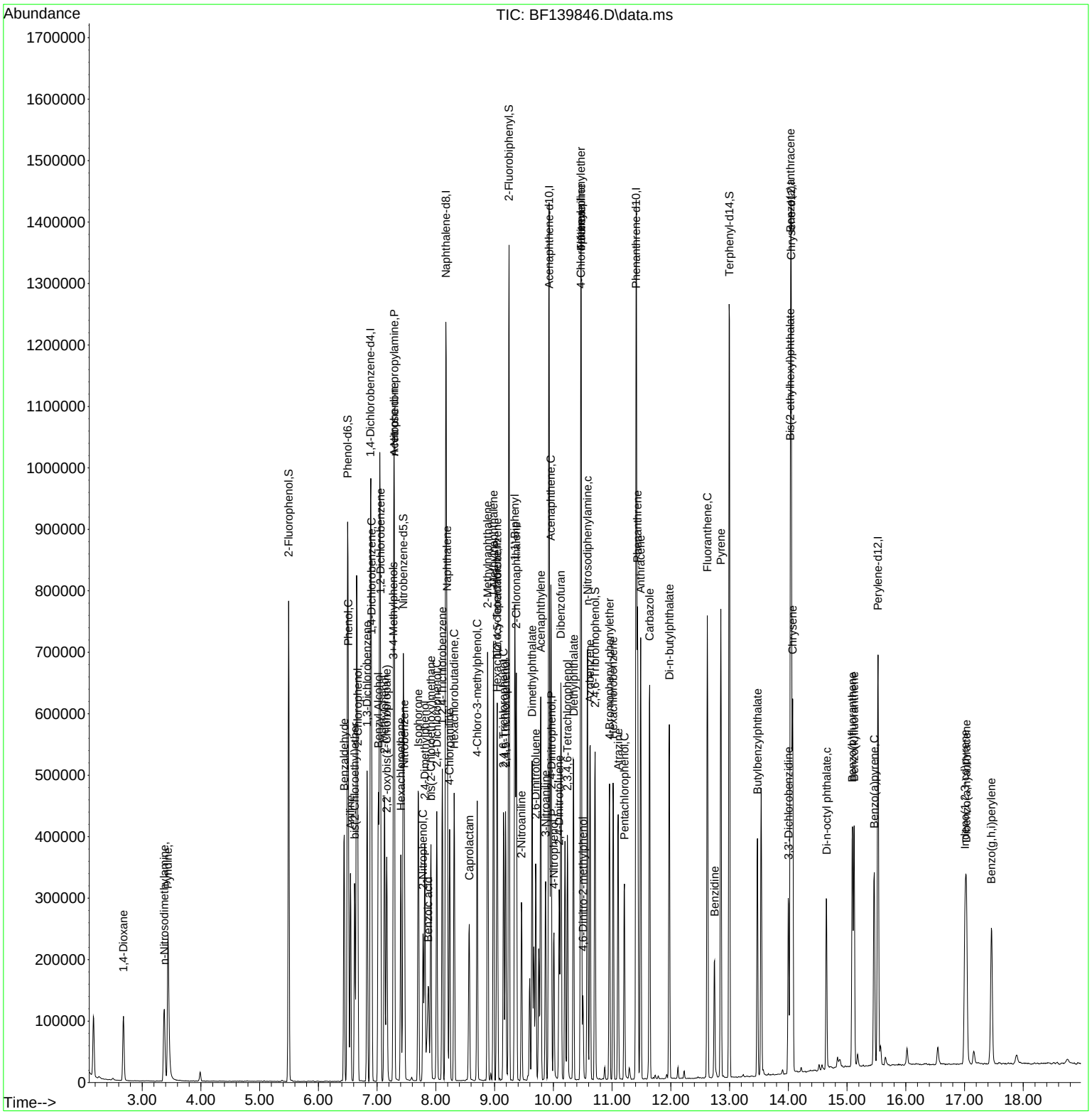
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	87482	10.787	ng		100
46) 1,1'-Biphenyl	9.345	154	316146	11.035	ng		99
47) 2-Chloronaphthalene	9.369	162	252140	10.927	ng		98
48) 2-Nitroaniline	9.457	65	65425	9.270	ng		98
49) Acenaphthylene	9.787	152	361398	10.833	ng		99
50) Dimethylphthalate	9.639	163	276645	10.792	ng		99
51) 2,6-Dinitrotoluene	9.698	165	54824	9.877	ng		95
52) Acenaphthene	9.957	154	233749	10.832	ng		98
53) 3-Nitroaniline	9.869	138	56574	9.884	ng	#	98
54) 2,4-Dinitrophenol	9.969	184	11577	11.138	ng	#	1
55) Dibenzofuran	10.128	168	341446	11.028	ng		98
56) 4-Nitrophenol	10.010	139	42688	9.694	ng		98
57) 2,4-Dinitrotoluene	10.098	165	64666	9.474	ng		94
58) Fluorene	10.475	166	269323	11.420	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	66170	10.408	ng		97
60) Diethylphthalate	10.345	149	269178	10.694	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	131191	11.016	ng		97
62) 4-Nitroaniline	10.475	138	53288	9.857	ng		98
63) Azobenzene	10.622	77	284960	10.679	ng		100
65) 4,6-Dinitro-2-methylph...	10.504	198	20120	6.732	ng		97
66) n-Nitrosodiphenylamine	10.581	169	234741	10.705	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	79420	10.522	ng		98
68) Hexachlorobenzene	11.016	284	89927	10.594	ng		98
69) Atrazine	11.104	200	64267	10.819	ng		99
70) Pentachlorophenol	11.210	266	50361	9.775	ng		100
71) Phenanthrene	11.433	178	379233	10.958	ng		99
72) Anthracene	11.486	178	371391	10.999	ng		99
73) Carbazole	11.639	167	353253	11.249	ng		99
74) Di-n-butylphthalate	11.975	149	392482	10.818	ng		99
75) Fluoranthene	12.622	202	405919	11.602	ng		99
77) Benzidine	12.745	184	104253	14.168	ng		99
78) Pyrene	12.851	202	413606	10.444	ng		99
80) Butylbenzylphthalate	13.474	149	116053	9.774	ng		100
81) Benzo(a)anthracene	14.039	228	306594	10.410	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	84205	9.806	ng		99
83) Chrysene	14.074	228	281467	10.423	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	121932	9.153	ng		99
85) Di-n-octyl phthalate	14.651	149	177824	7.339	ng		99
87) Indeno(1,2,3-cd)pyrene	17.010	276	236914	9.798	ng		99
88) Benzo(b)fluoranthene	15.092	252	232988	10.176	ng		99
89) Benzo(k)fluoranthene	15.121	252	221219	11.203	ng		99
90) Benzo(a)pyrene	15.463	252	192493	10.217	ng		100
91) Dibenzo(a,h)anthracene	17.033	278	199946	9.912	ng		99
92) Benzo(g,h,i)perylene	17.457	276	196609	9.758	ng		99

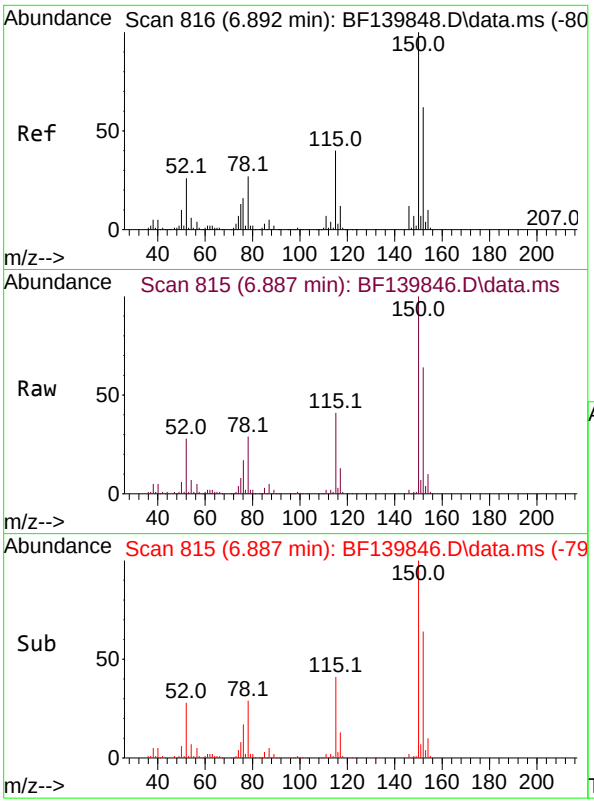
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139846.D
Acq On : 18 Oct 2024 11:23
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Oct 18 14:17:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



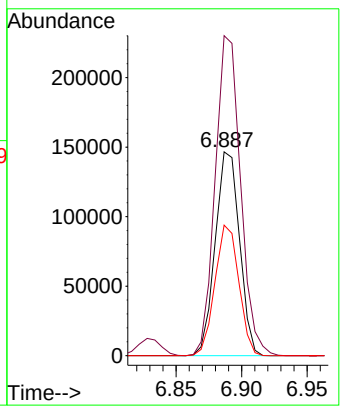


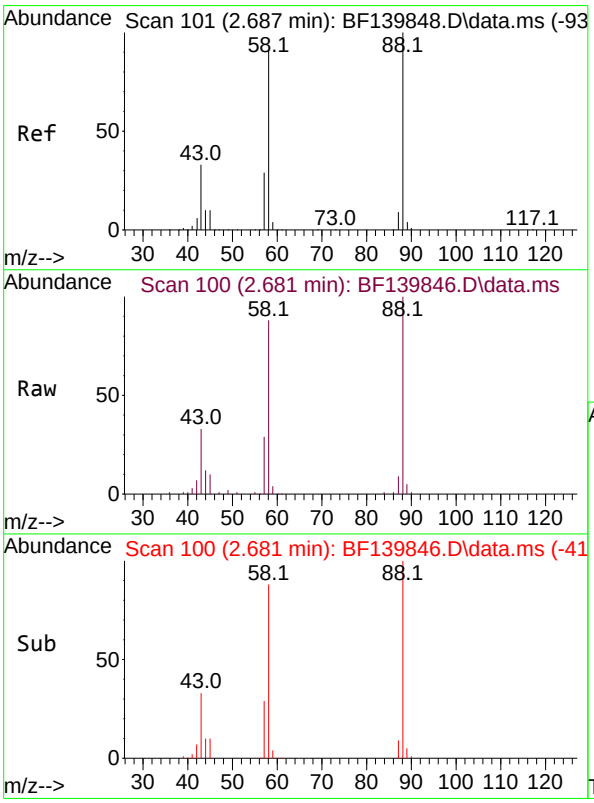
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 188831

Ion	Ratio	Lower	Upper
152	100		
150	157.0	130.2	195.2
115	64.1	51.4	77.2

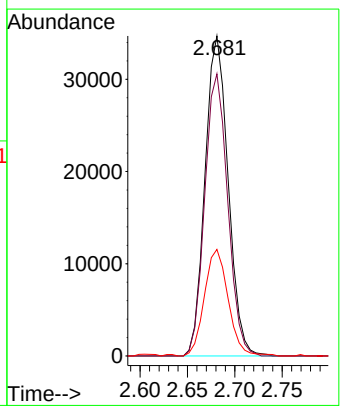


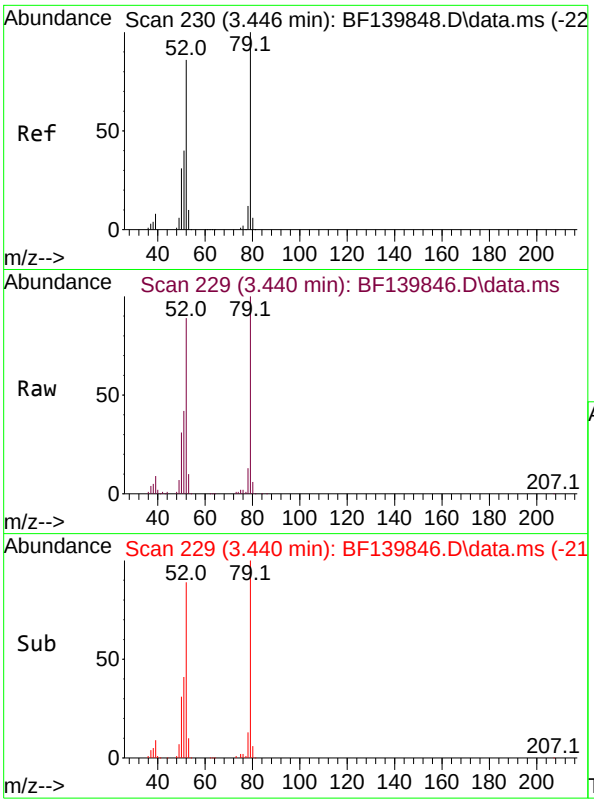


#2
1,4-Dioxane
Concen: 10.485 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion: 88 Resp: 58969

Ion	Ratio	Lower	Upper
88	100		
58	87.5	73.3	109.9
43	34.3	27.1	40.7



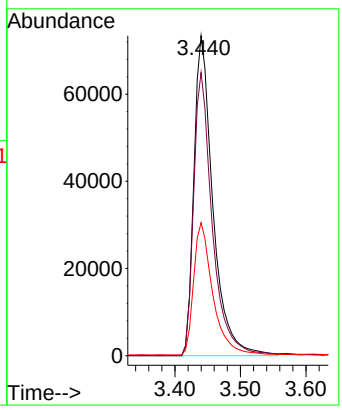


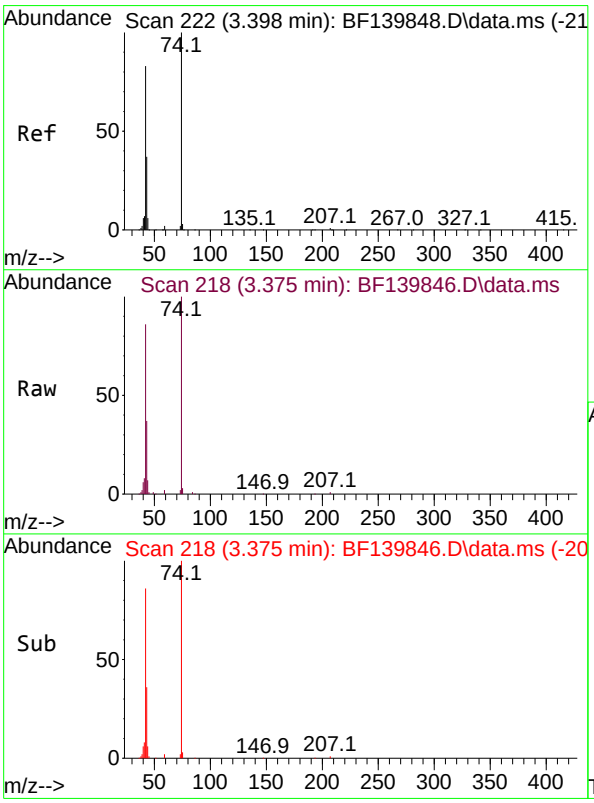
#3
Pyridine
Concen: 10.636 ng
RT: 3.440 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 148260

Ion	Ratio	Lower	Upper
79	100		
52	88.5	68.5	102.7
51	41.6	32.3	48.5

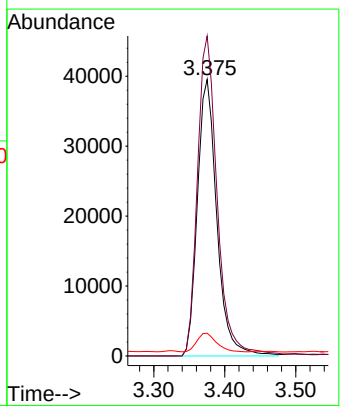


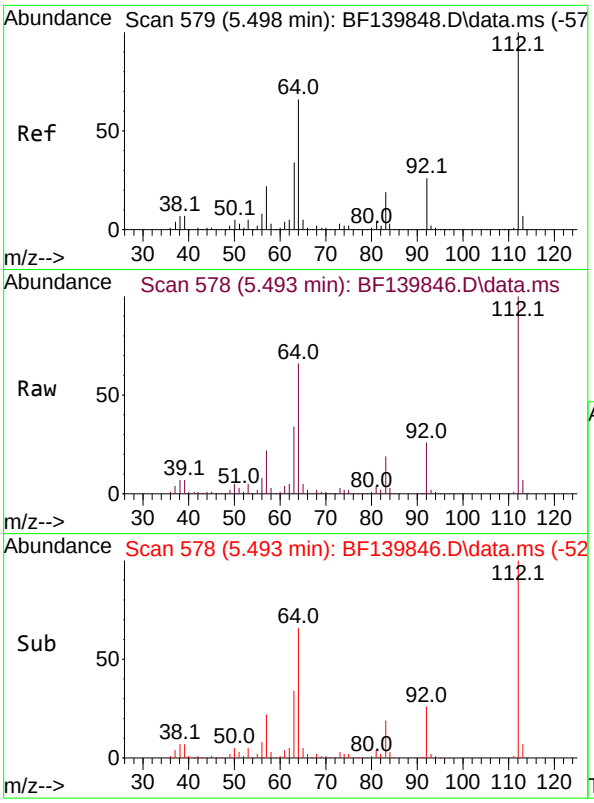


#4
n-Nitrosodimethylamine
Concen: 10.081 ng
RT: 3.375 min Scan# 218
Delta R.T. -0.023 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion: 42 Resp: 75504

Ion	Ratio	Lower	Upper
42	100		
74	115.8	96.2	144.4
44	8.2	6.2	9.2



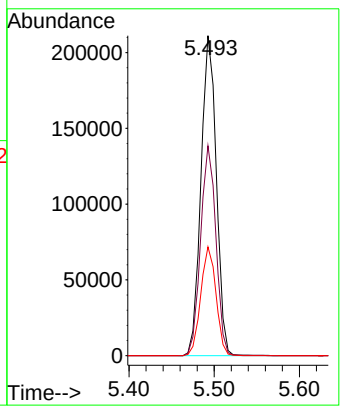


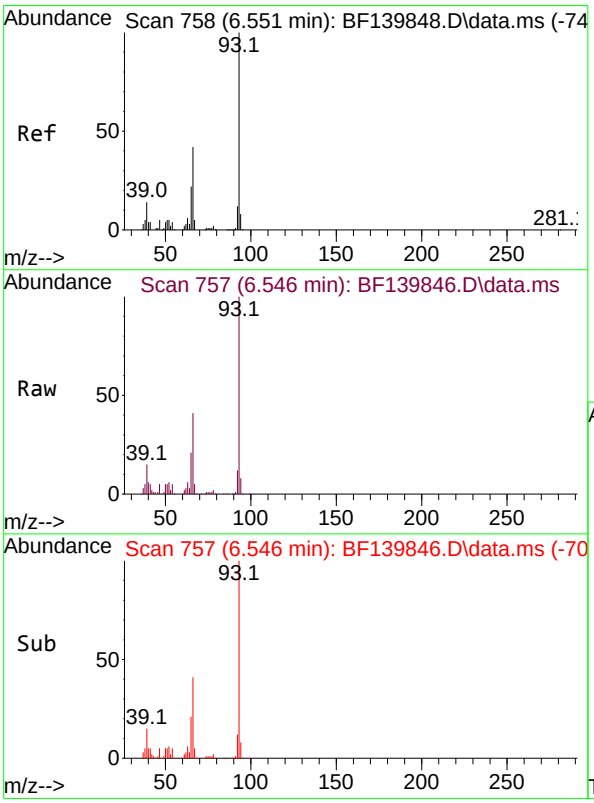
#5
2-Fluorophenol
Concen: 21.891 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 264054

Ion	Ratio	Lower	Upper
112	100		
64	65.6	53.0	79.6
63	34.0	27.0	40.4

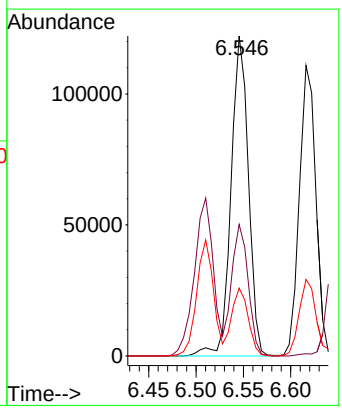


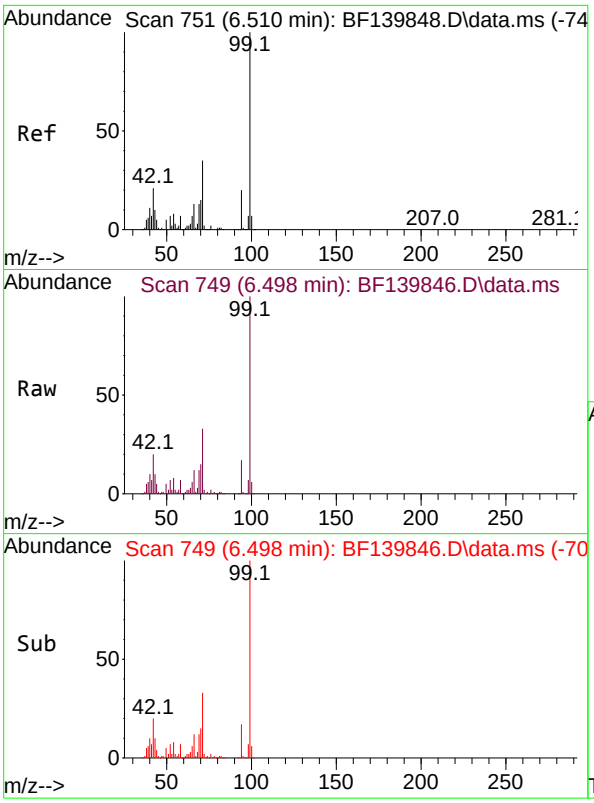


#6
Aniline
Concen: 10.692 ng
RT: 6.546 min Scan# 757
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion: 93 Resp: 155680

Ion	Ratio	Lower	Upper
93	100		
66	41.1	34.0	51.0
65	21.2	17.4	26.0



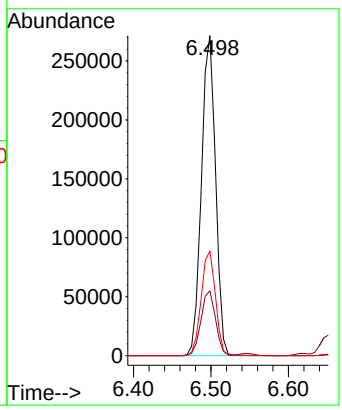


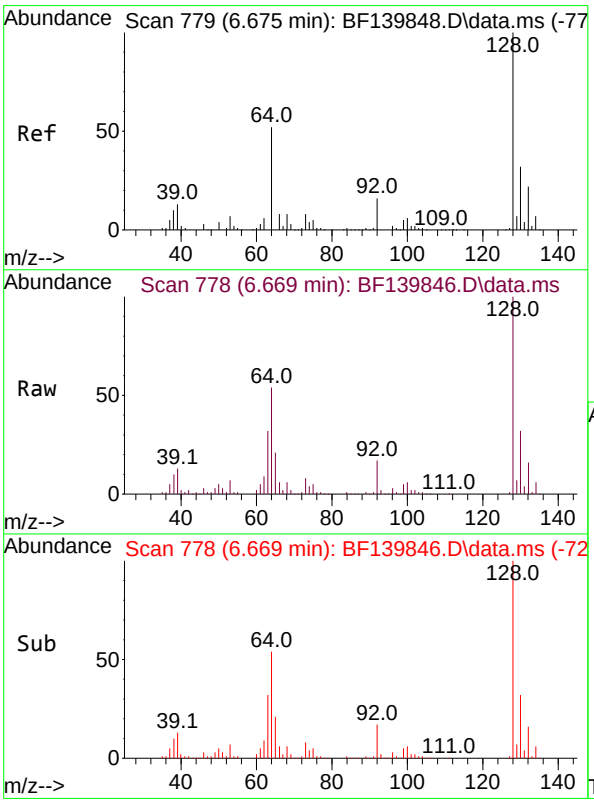
#7
Phenol-d6
Concen: 21.977 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 343334

Ion	Ratio	Lower	Upper
99	100		
42	20.3	16.7	25.1
71	32.7	27.7	41.5

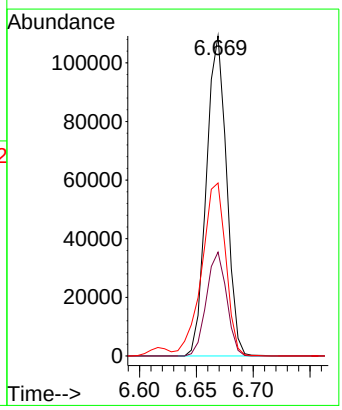


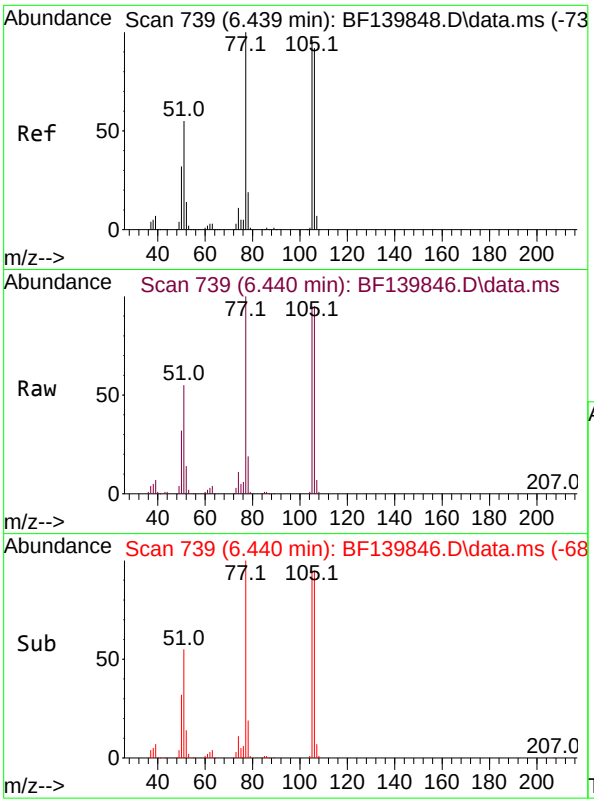


#8
2-Chlorophenol
Concen: 10.890 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:128 Resp: 134290

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.3	52.3
64	54.1	34.6	74.6



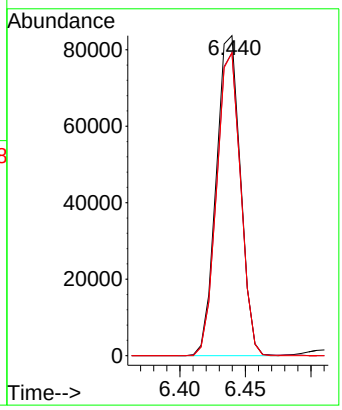


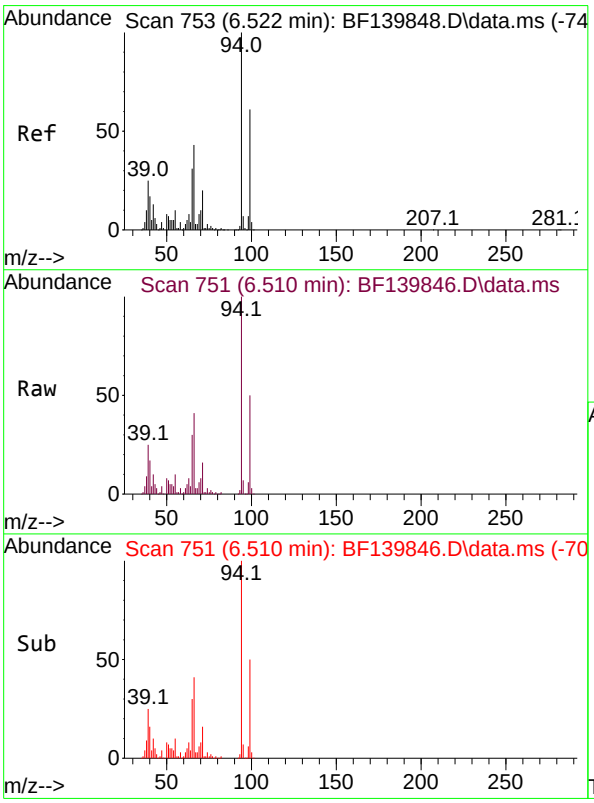
#9
Benzaldehyde
Concen: 12.213 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 107330

Ion	Ratio	Lower	Upper
77	100		
105	94.7	75.5	115.5
106	94.6	71.7	111.7

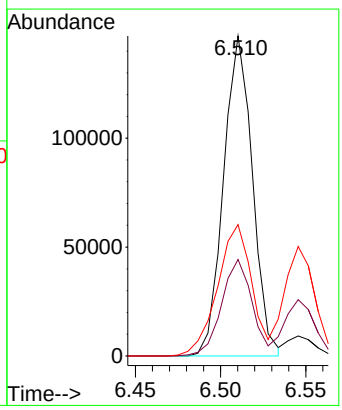


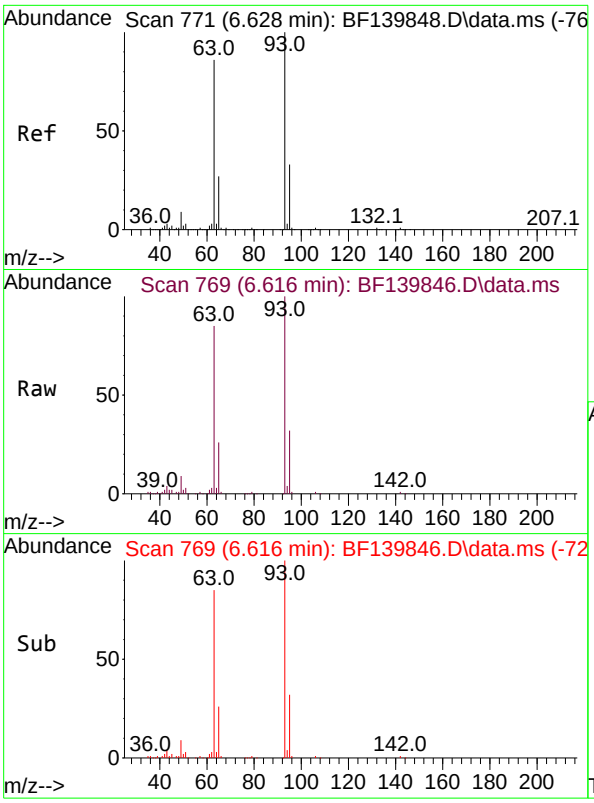


#10
Phenol
Concen: 10.549 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion: 94 Resp: 172965

Ion	Ratio	Lower	Upper
94	100		
65	30.1	11.1	51.1
66	41.0	22.7	62.7



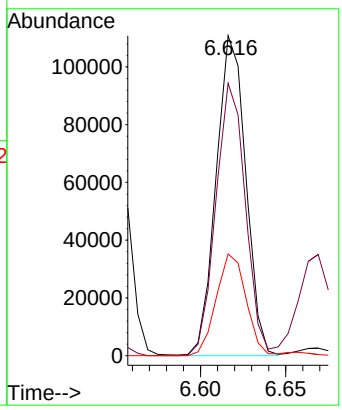


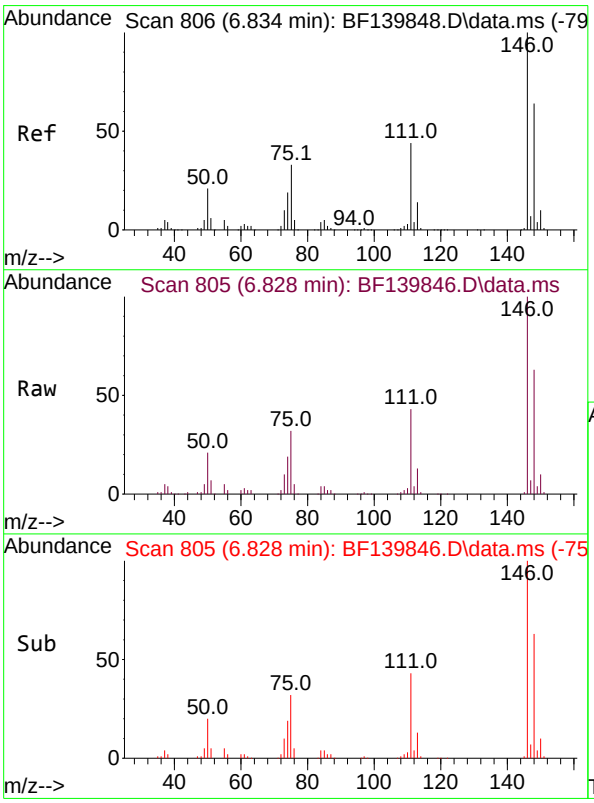
#11
bis(2-Chloroethyl)ether
Concen: 10.794 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 134367

Ion	Ratio	Lower	Upper
93	100		
63	85.2	65.0	105.0
95	31.8	12.4	52.4

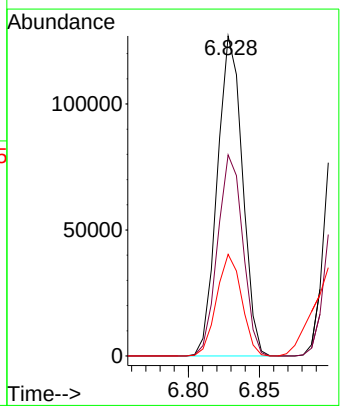


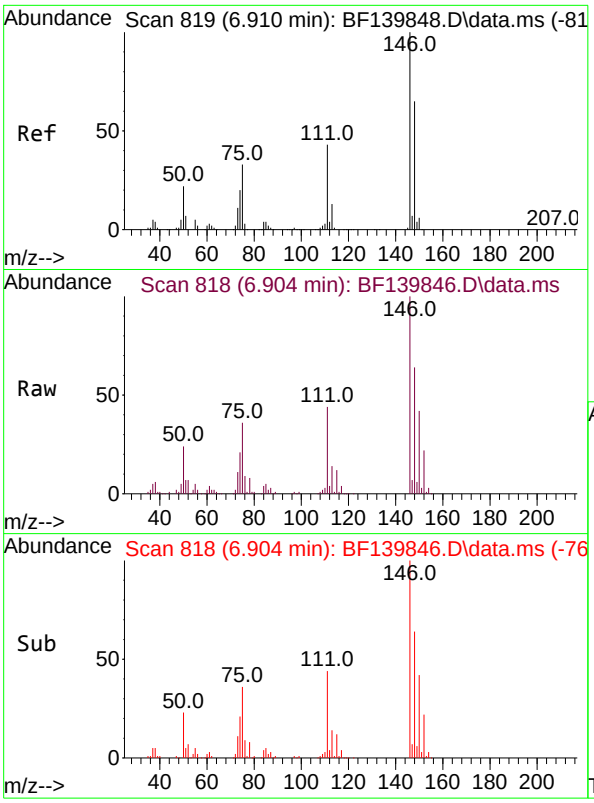


#12
1,3-Dichlorobenzene
Concen: 11.045 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:146 Resp: 156338

Ion	Ratio	Lower	Upper
146	100		
148	62.9	51.0	76.4
75	31.8	26.4	39.6



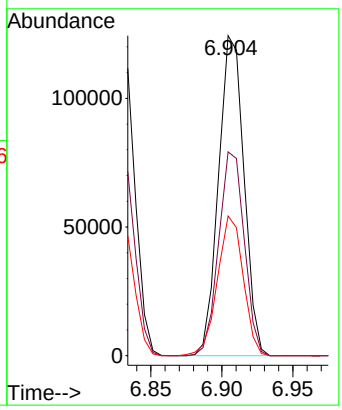


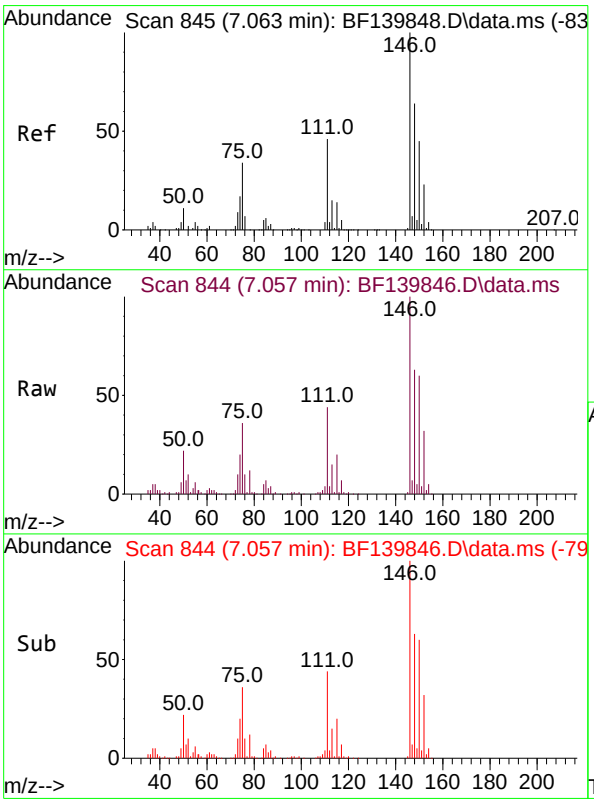
#13
1,4-Dichlorobenzene
Concen: 10.957 ng
RT: 6.904 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 154957

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.8	77.8
111	43.7	34.6	51.8

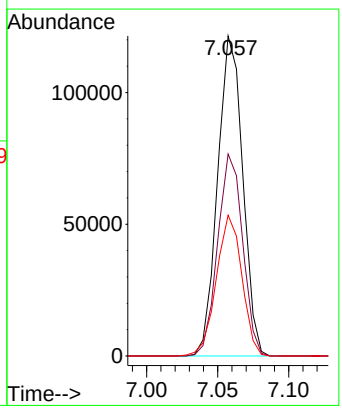


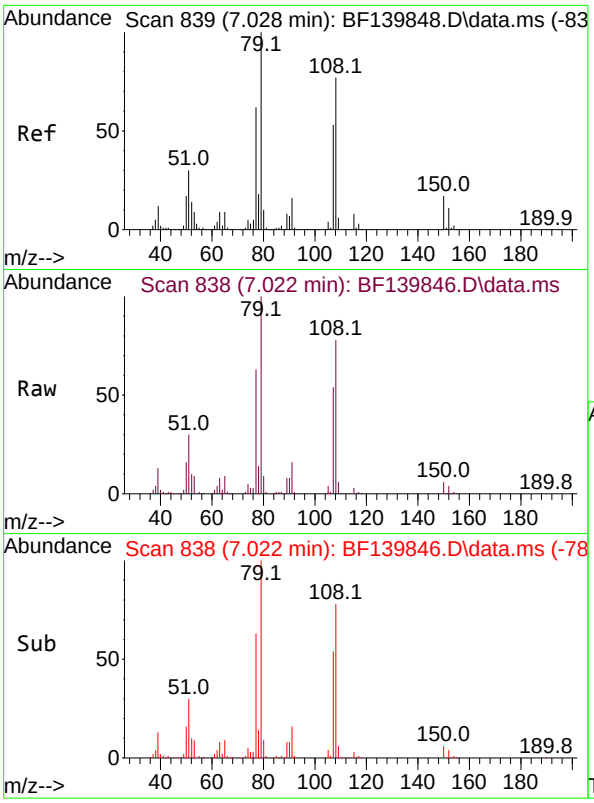


#14
1,2-Dichlorobenzene
Concen: 11.299 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:146 Resp: 149129

Ion	Ratio	Lower	Upper
146	100		
148	63.1	51.4	77.2
111	44.0	36.7	55.1



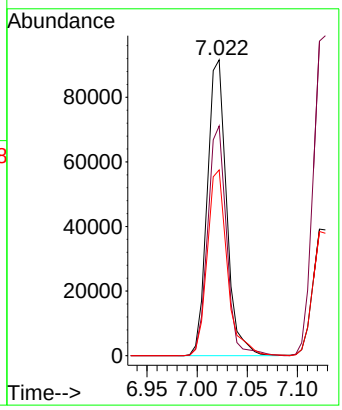


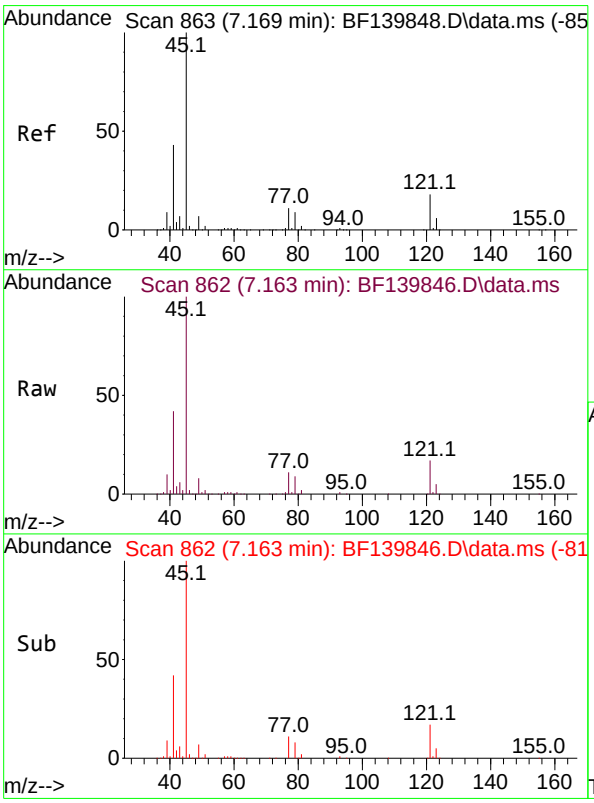
#15
Benzyl Alcohol
Concen: 10.704 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 122669

Ion	Ratio	Lower	Upper
79	100		
108	77.7	61.4	92.0
77	62.8	49.9	74.9

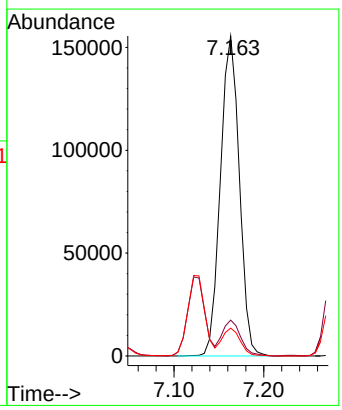


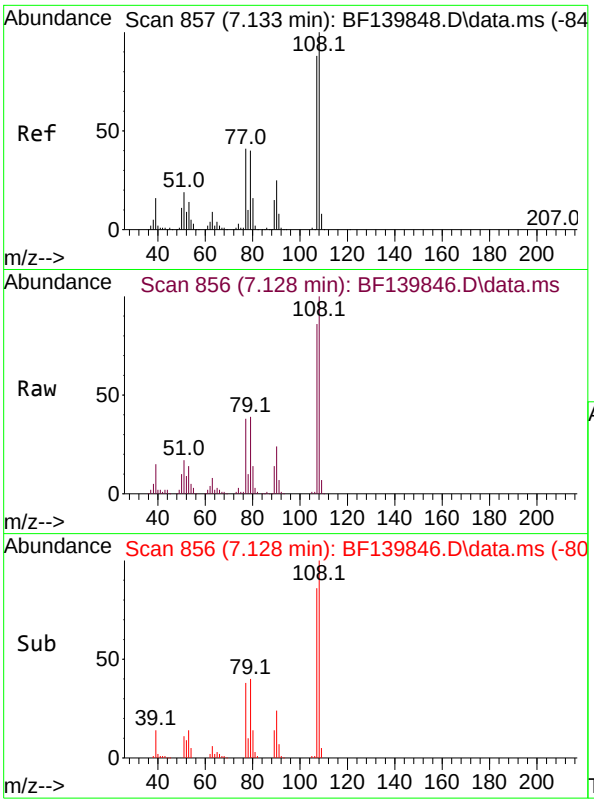


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.715 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion: 45 Resp: 227443

Ion	Ratio	Lower	Upper
45	100		
77	11.2	0.0	31.5
79	8.7	0.0	29.1



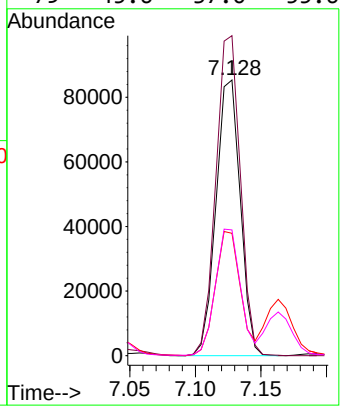


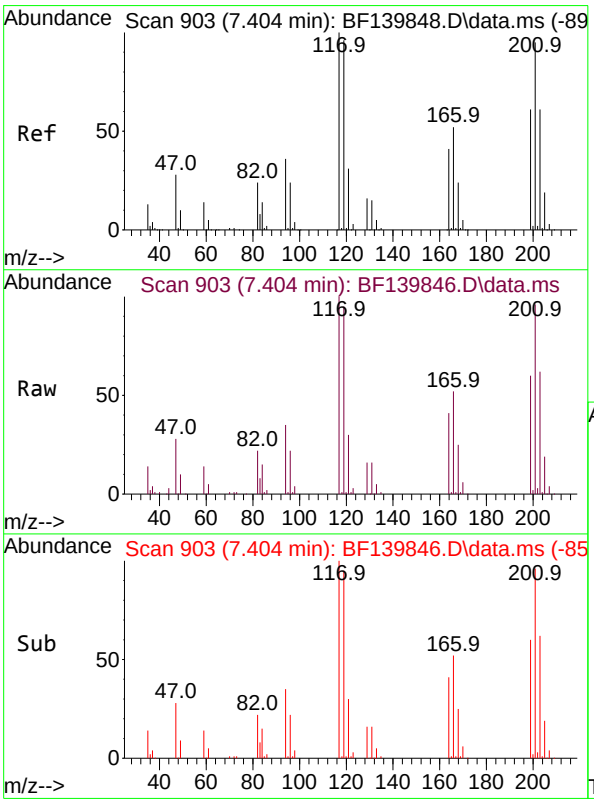
#17
2-Methylphenol
Concen: 10.452 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 109901

Ion	Ratio	Lower	Upper
107	100		
108	116.1	91.3	136.9
77	44.4	37.1	55.7
79	45.6	37.0	55.6

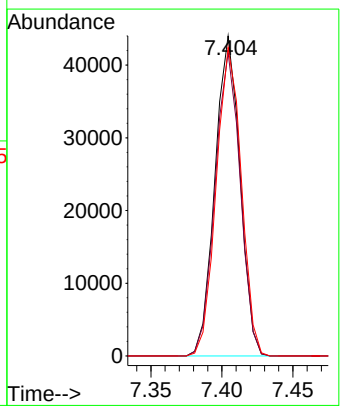


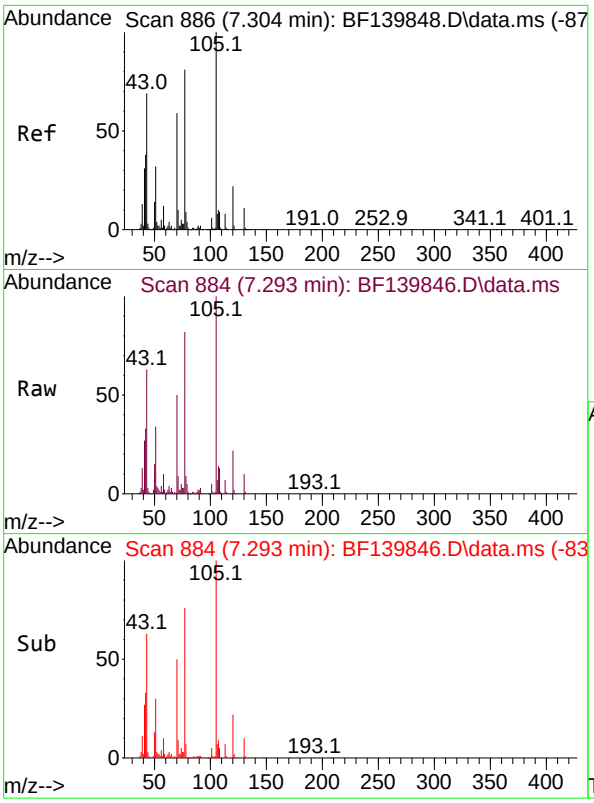


#18
Hexachloroethane
Concen: 10.686 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:117 Resp: 53892

Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.0	115.4
201	96.4	76.2	114.4



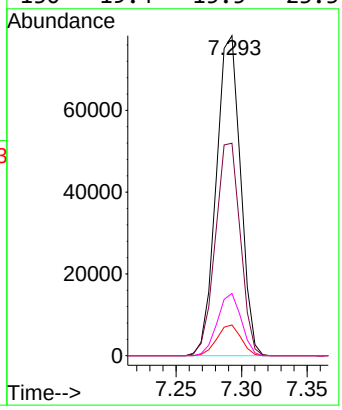


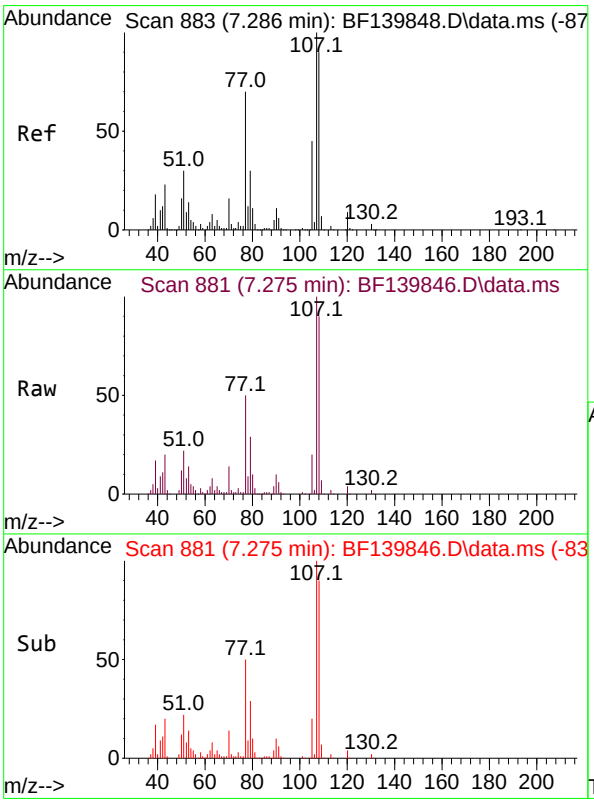
#19
n-Nitroso-di-n-propylamine
Concen: 10.621 ng
RT: 7.293 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 100635

Ion	Ratio	Lower	Upper
70	100		
42	66.4	51.5	77.3
101	9.6	7.5	11.3
130	19.4	15.5	23.3

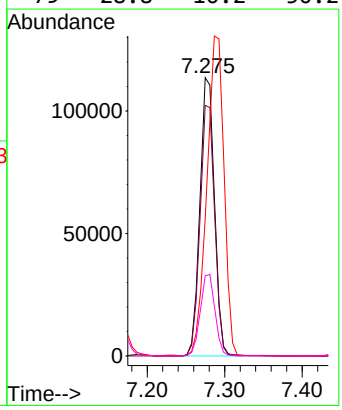


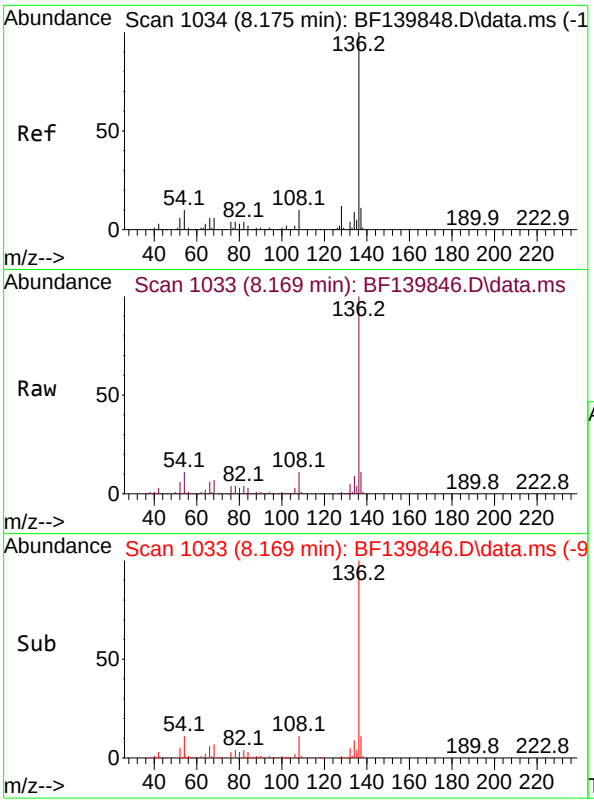


#20
3+4-Methylphenols
Concen: 11.041 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:107 Resp: 148497

Ion	Ratio	Lower	Upper
107	100		
108	90.1	69.8	109.8
77	49.6	50.5	90.5#
79	28.8	10.2	50.2



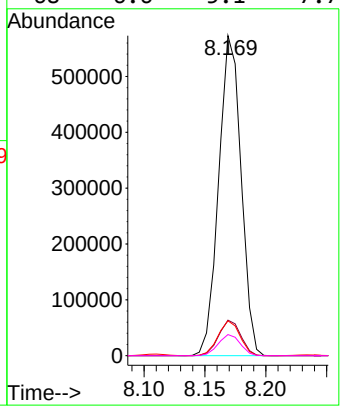


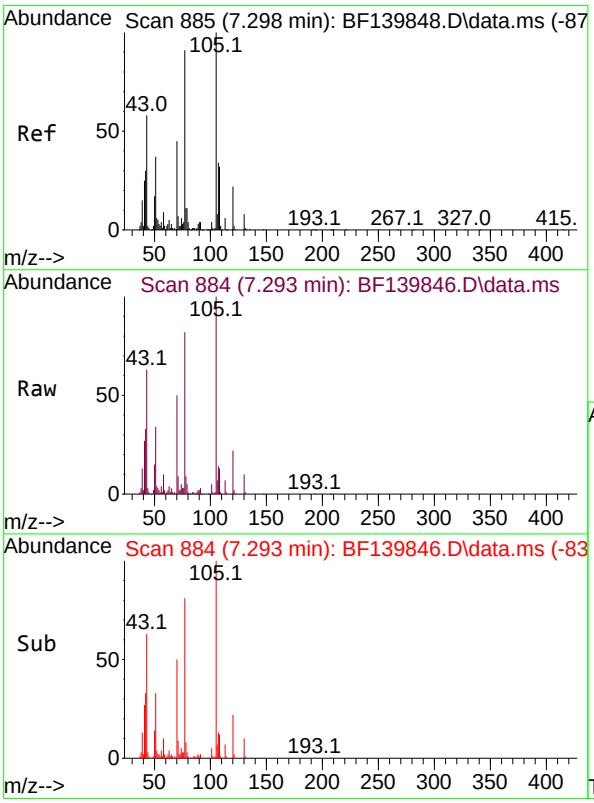
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 733621

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	12.8
54	10.9	8.4	12.6
68	6.6	5.1	7.7

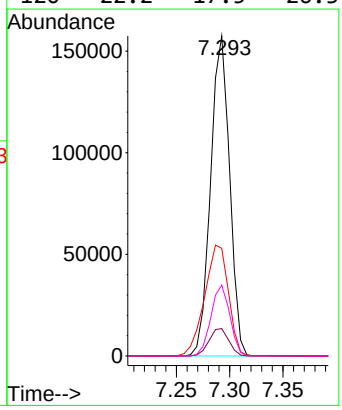


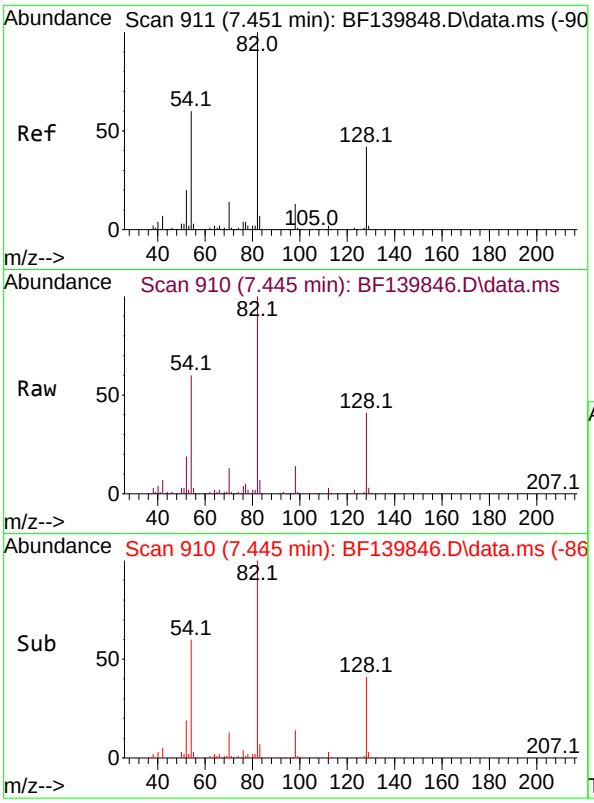


#22
Acetophenone
Concen: 10.885 ng
RT: 7.293 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:105 Resp: 195595

Ion	Ratio	Lower	Upper
105	100		
71	8.5	5.9	8.9
51	33.6	29.4	44.2
120	22.2	17.5	26.3



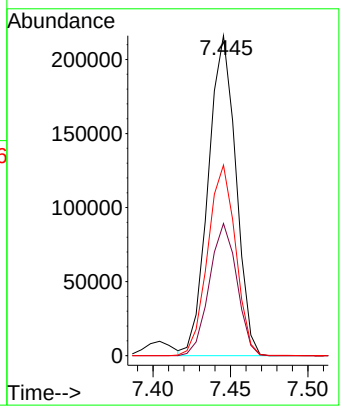


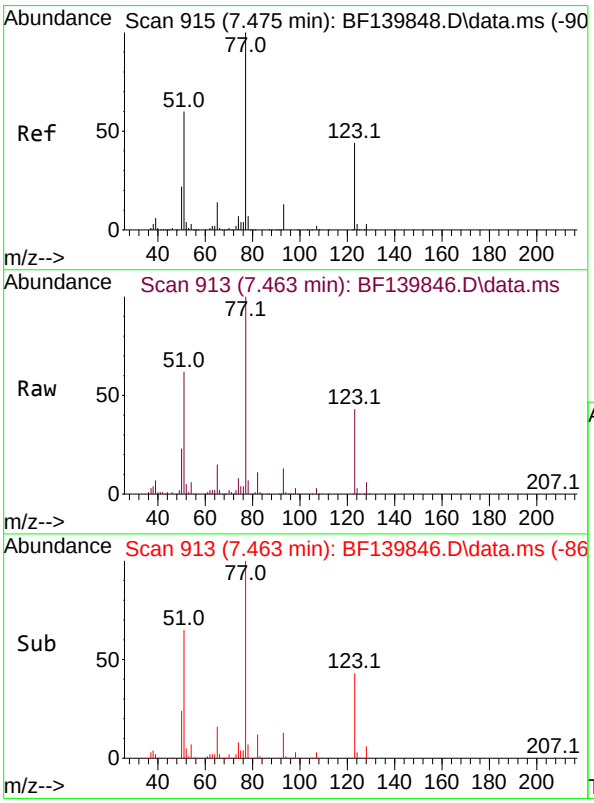
#23
Nitrobenzene-d5
Concen: 20.257 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 268128

Ion	Ratio	Lower	Upper
82	100		
128	41.3	33.4	50.0
54	59.5	47.8	71.8

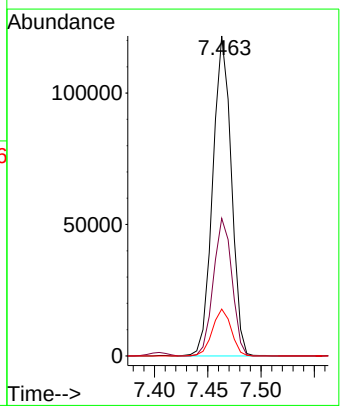


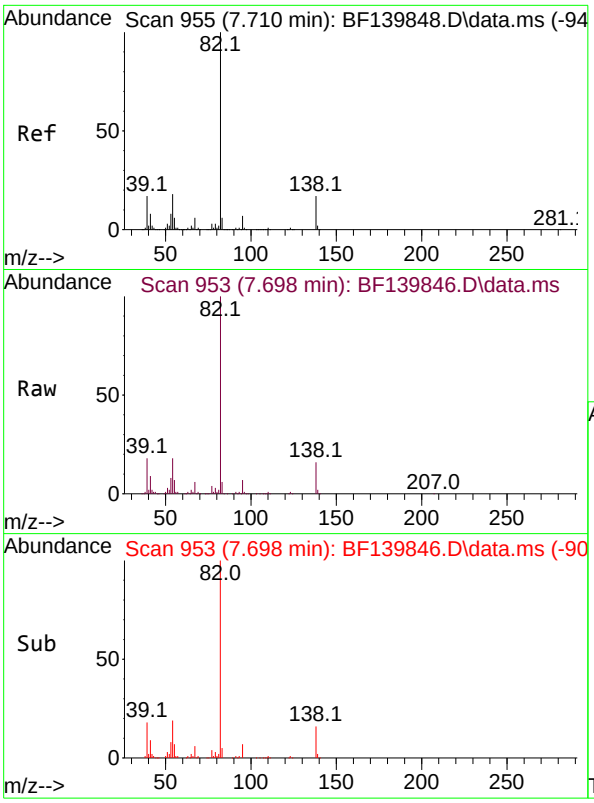


#24
Nitrobenzene
Concen: 10.154 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion: 77 Resp: 147356

Ion	Ratio	Lower	Upper
77	100		
123	43.0	35.7	53.5
65	14.6	11.5	17.3



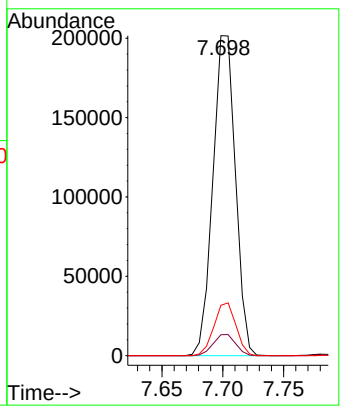


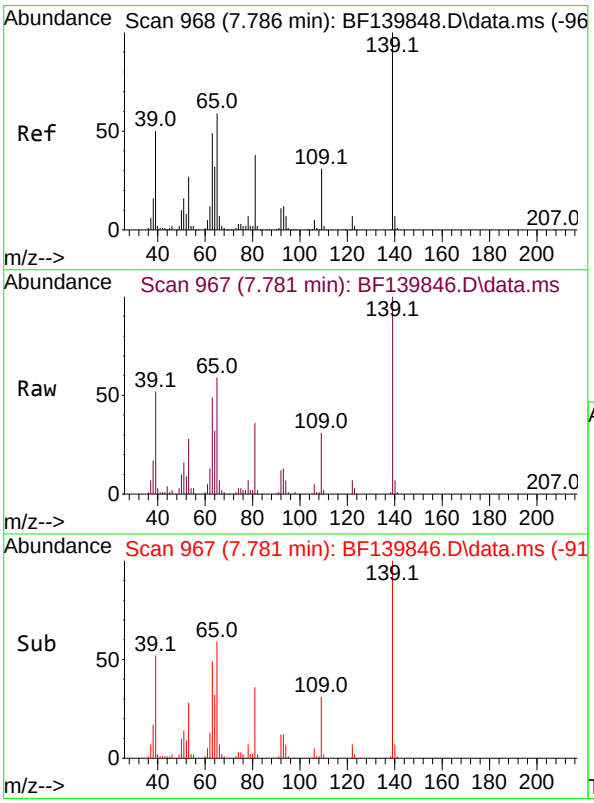
#25
Isophorone
Concen: 10.359 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 260247

Ion	Ratio	Lower	Upper
82	100		
95	6.6	5.5	8.3
138	15.7	13.2	19.8

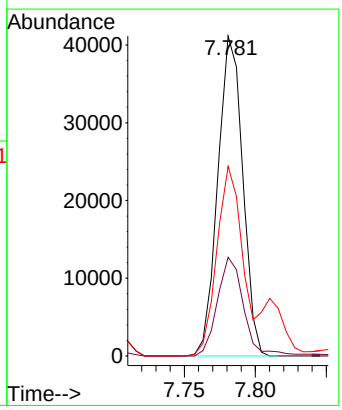


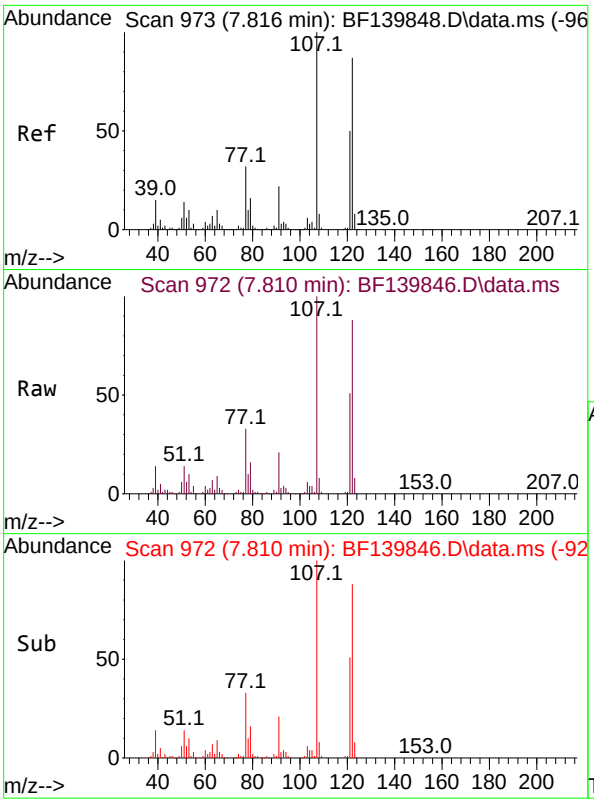


#26
2-Nitrophenol
Concen: 9.162 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:139 Resp: 50159

Ion	Ratio	Lower	Upper
139	100		
109	30.9	25.1	37.7
65	59.2	47.5	71.3



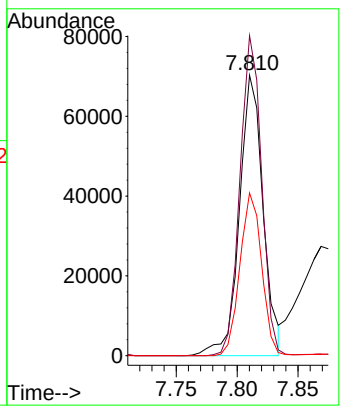


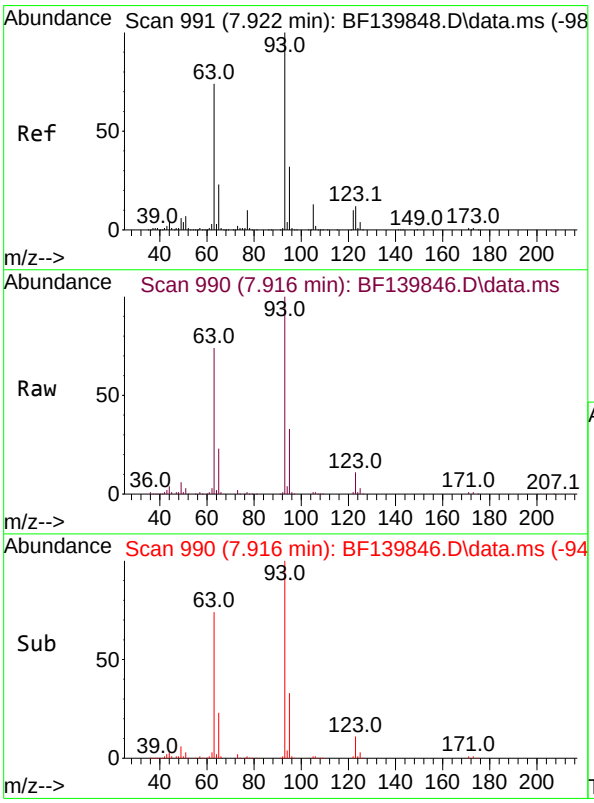
#27
2,4-Dimethylphenol
Concen: 10.400 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 94947

Ion	Ratio	Lower	Upper
122	100		
107	114.1	91.9	137.9
121	58.0	46.2	69.4

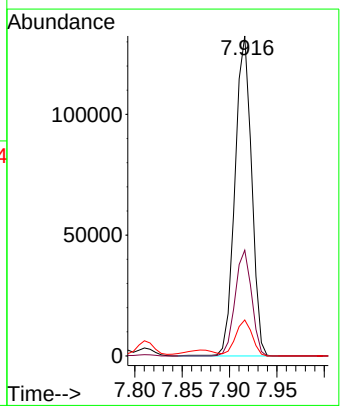


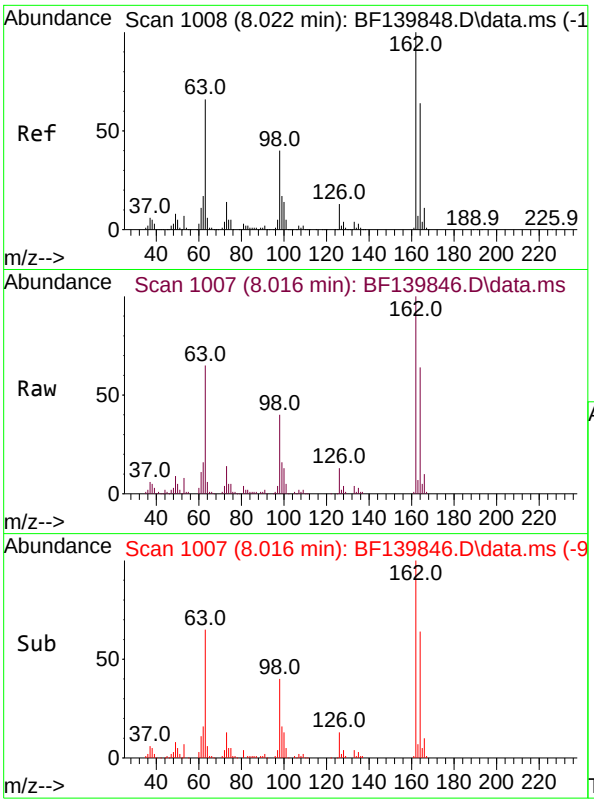


#28
bis(2-Chloroethoxy)methane
Concen: 10.605 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion: 93 Resp: 161423

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.0	39.0
123	11.2	9.8	14.8



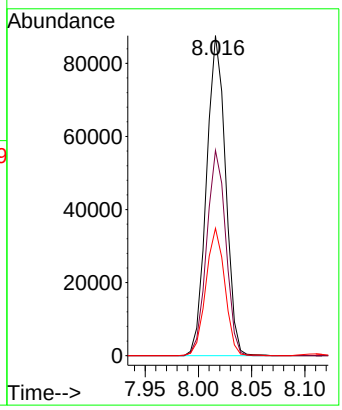


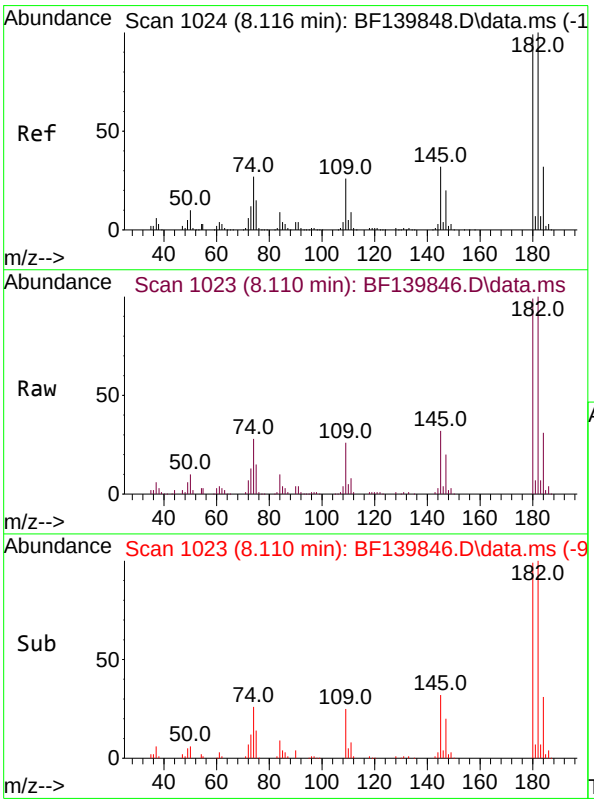
#29
2,4-Dichlorophenol
Concen: 10.492 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 109102

Ion	Ratio	Lower	Upper
162	100		
164	64.1	43.9	83.9
98	39.8	19.9	59.9

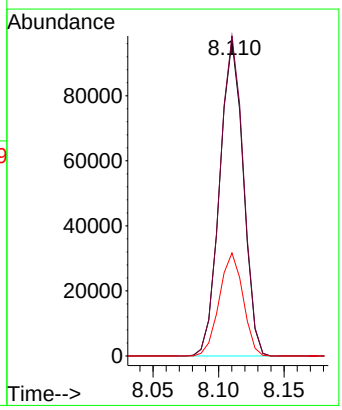


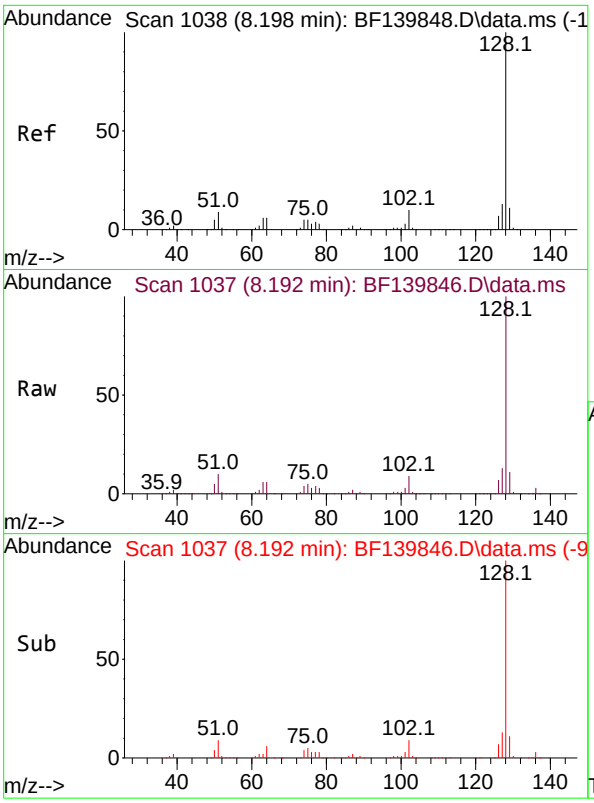


#30
1,2,4-Trichlorobenzene
Concen: 10.537 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:180 Resp: 121232

Ion	Ratio	Lower	Upper
180	100		
182	101.5	80.5	120.7
145	32.7	25.4	38.0



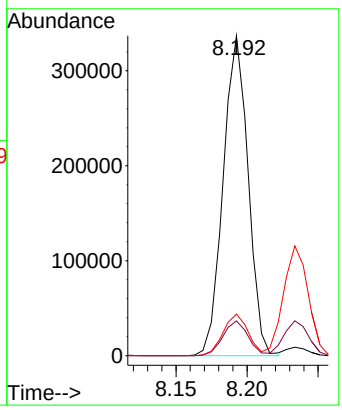


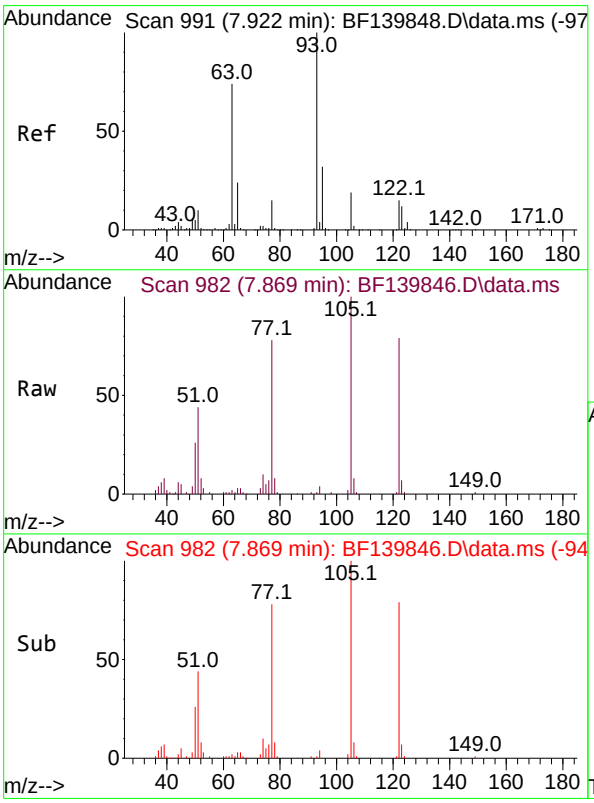
#31
Naphthalene
Concen: 10.864 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 411053

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.0	10.6	16.0

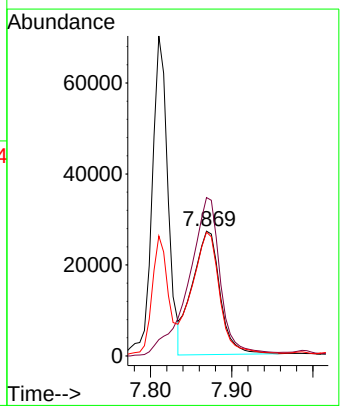


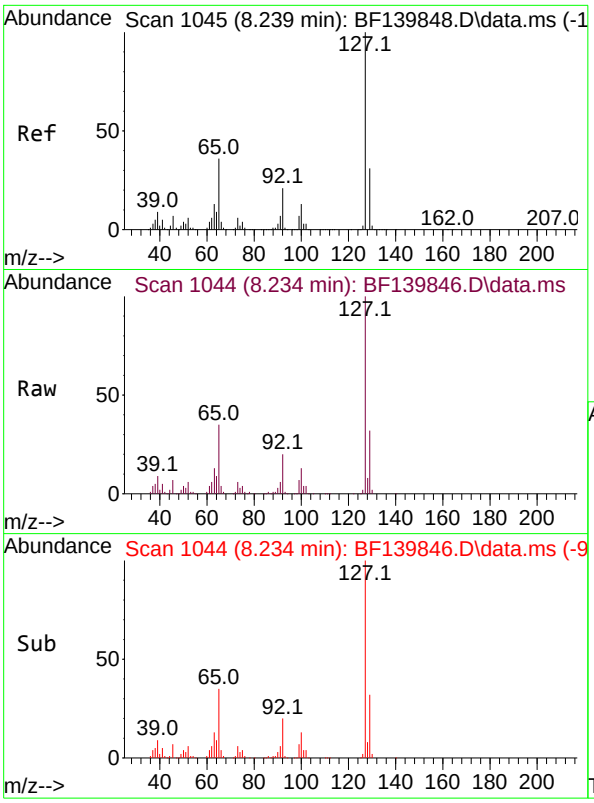


#32
Benzoic acid
Concen: 8.075 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.053 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:122 Resp: 64294

Ion	Ratio	Lower	Upper
122	100		
105	126.9	107.6	147.6
77	99.2	80.2	120.2



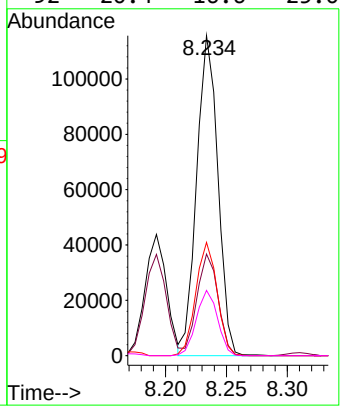


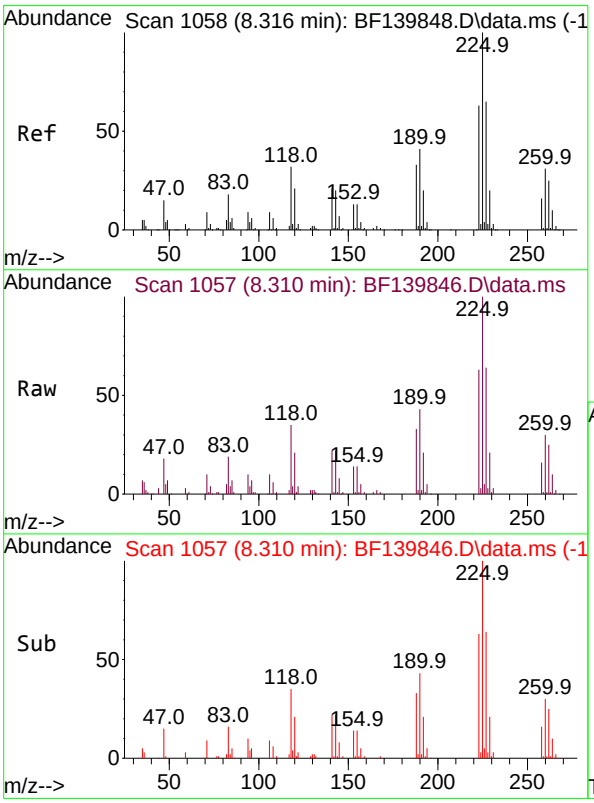
#33
4-Chloroaniline
Concen: 10.853 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 140021

Ion	Ratio	Lower	Upper
127	100		
129	31.8	25.4	38.2
65	35.4	28.4	42.6
92	20.4	16.6	25.0

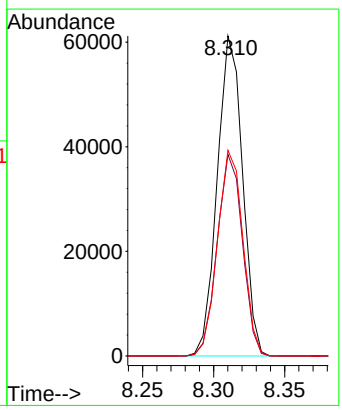


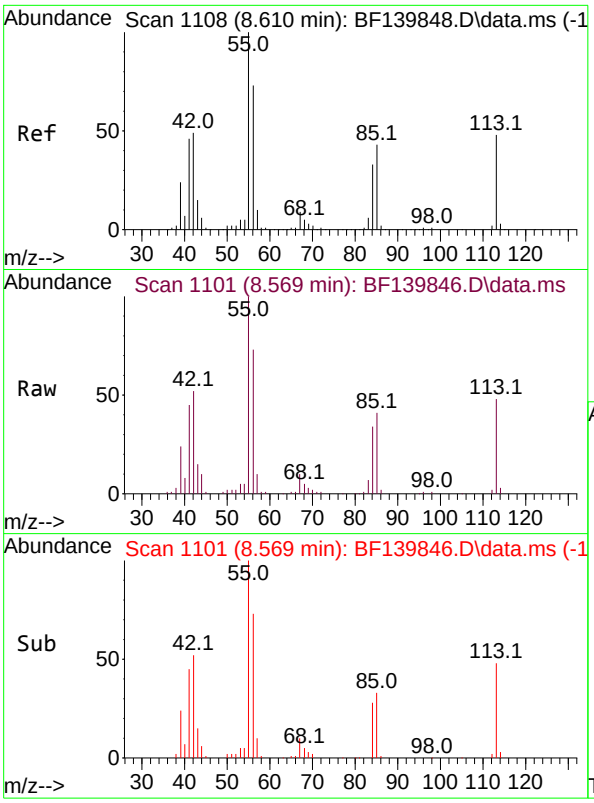


#34
Hexachlorobutadiene
Concen: 10.477 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:225 Resp: 75740

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.6	76.0
227	64.3	51.8	77.8



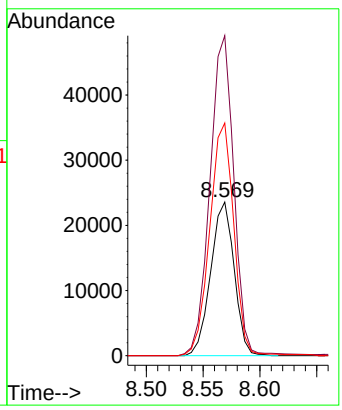


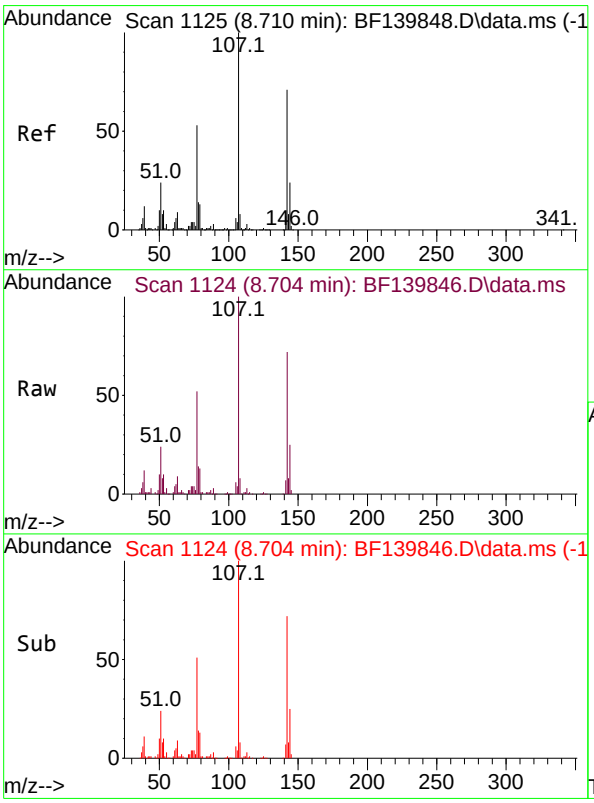
#35
Caprolactam
Concen: 10.256 ng
RT: 8.569 min Scan# 11
Delta R.T. -0.041 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 33908

Ion	Ratio	Lower	Upper
113	100		
55	208.3	189.2	229.2
56	151.4	132.5	172.5

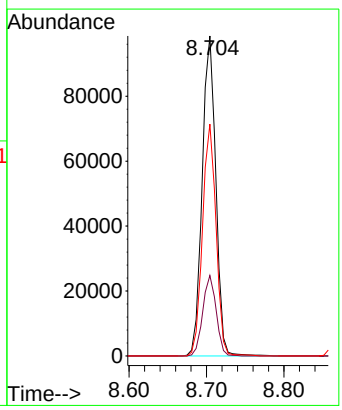


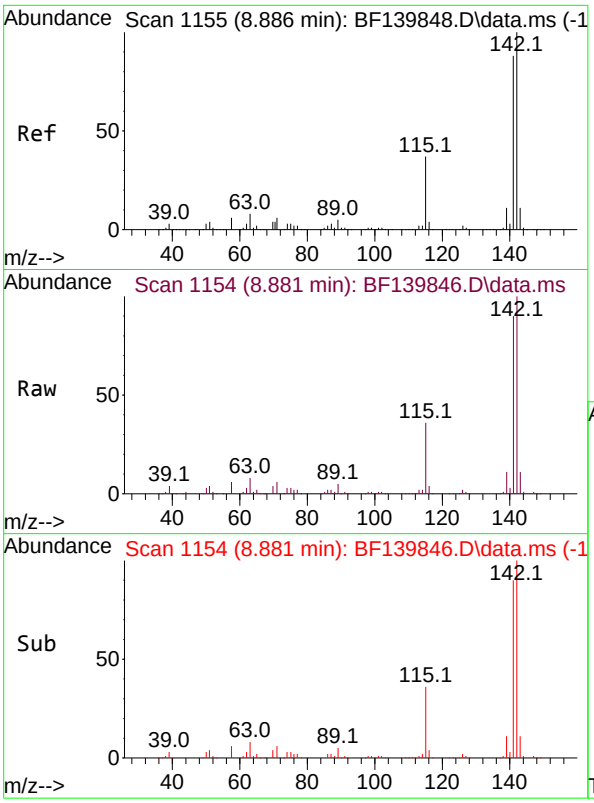


#36
4-Chloro-3-methylphenol
Concen: 10.452 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:107 Resp: 120339

Ion	Ratio	Lower	Upper
107	100		
144	25.2	19.1	28.7
142	72.5	57.2	85.8



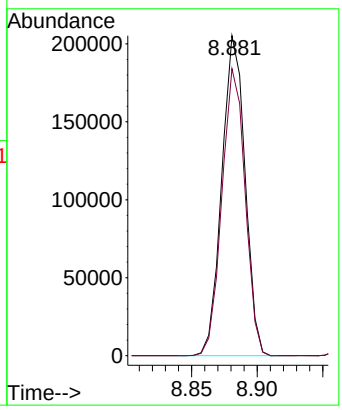


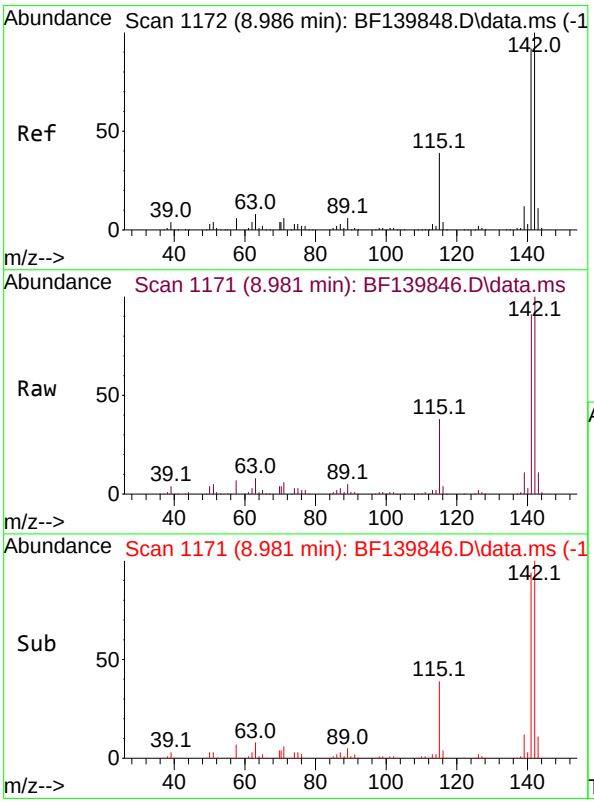
#37
2-Methylnaphthalene
Concen: 10.899 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 252554

Ion	Ratio	Lower	Upper
142	100		
141	89.7	70.8	106.2

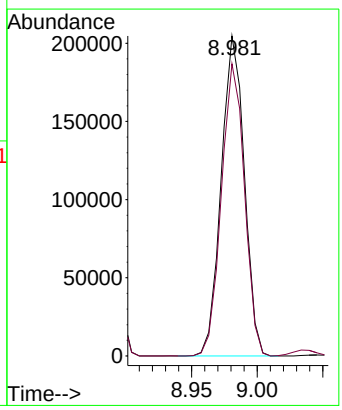


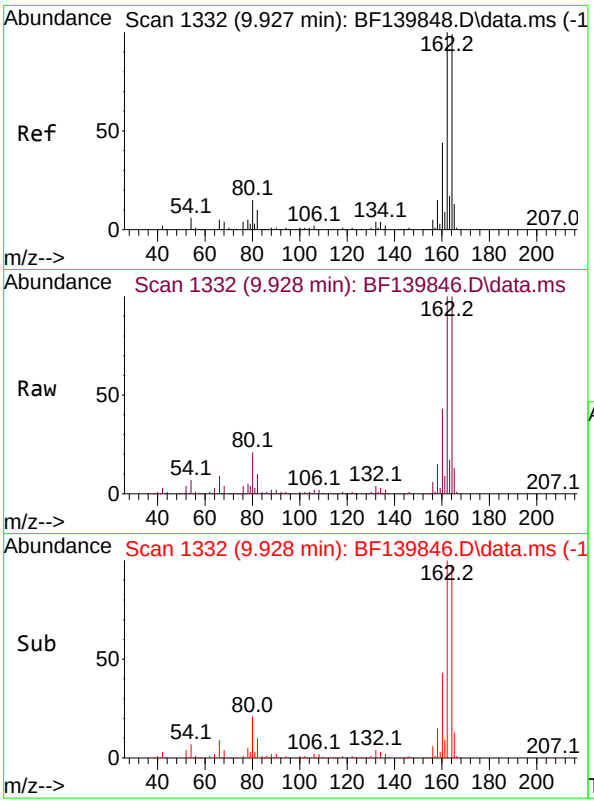


#38
1-Methylnaphthalene
Concen: 11.023 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:142 Resp: 250609

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.5	110.3



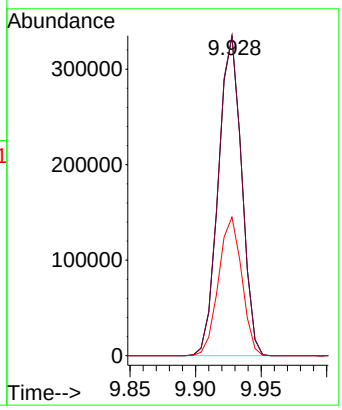


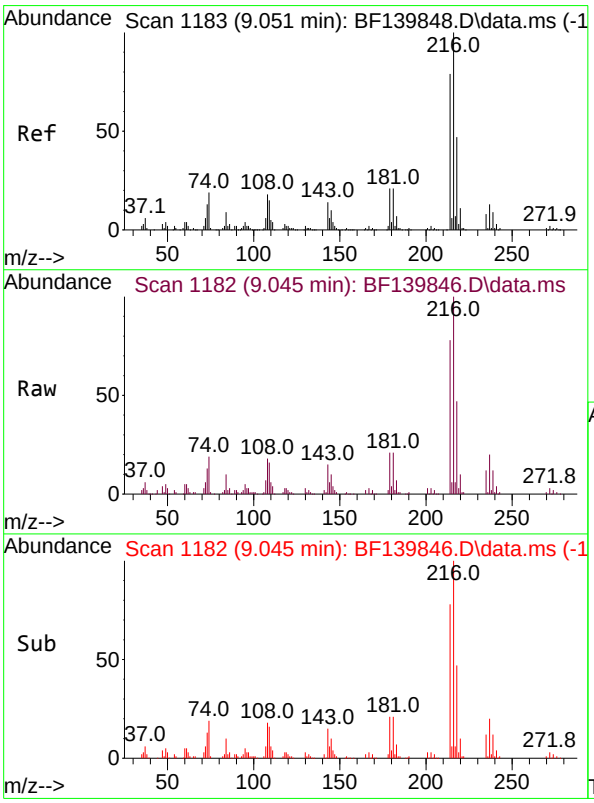
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 411556

Ion	Ratio	Lower	Upper
164	100		
162	100.2	81.0	121.4
160	43.4	35.4	53.0

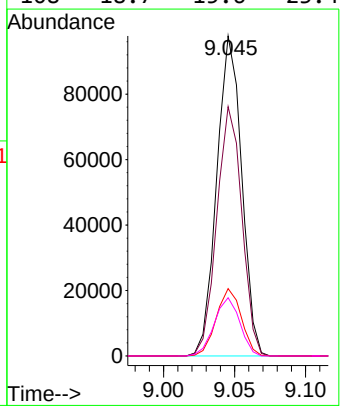


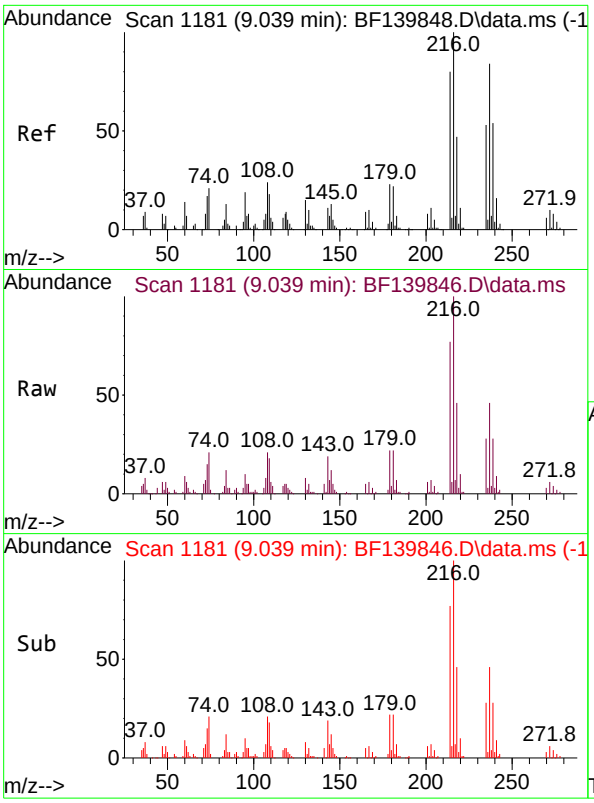


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.738 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:216 Resp: 119227

Ion	Ratio	Lower	Upper
216	100		
214	78.1	63.4	95.0
179	21.2	17.2	25.8
108	18.7	15.6	23.4



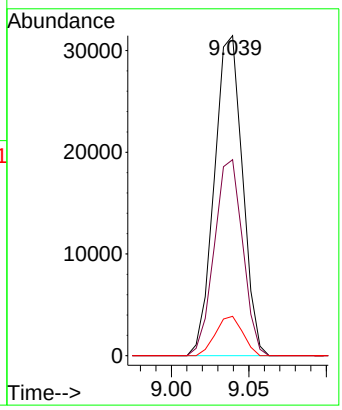


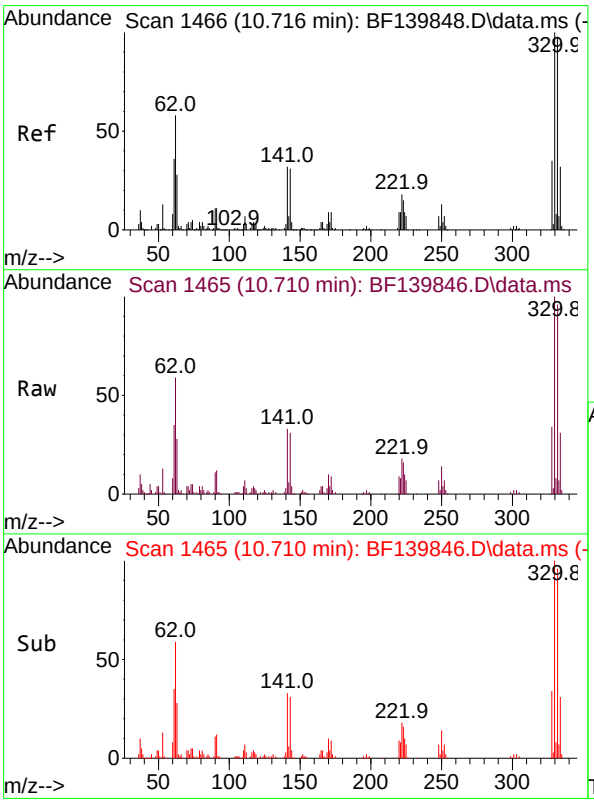
#41
Hexachlorocyclopentadiene
Concen: 10.290 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 39754

Ion	Ratio	Lower	Upper
237	100		
235	61.3	42.9	82.9
272	12.3	0.0	32.3

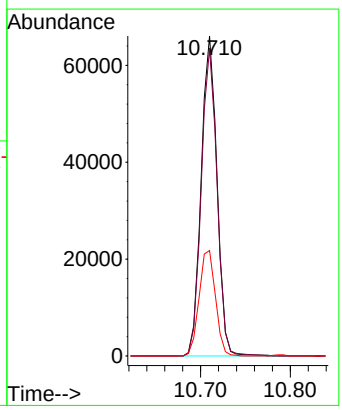


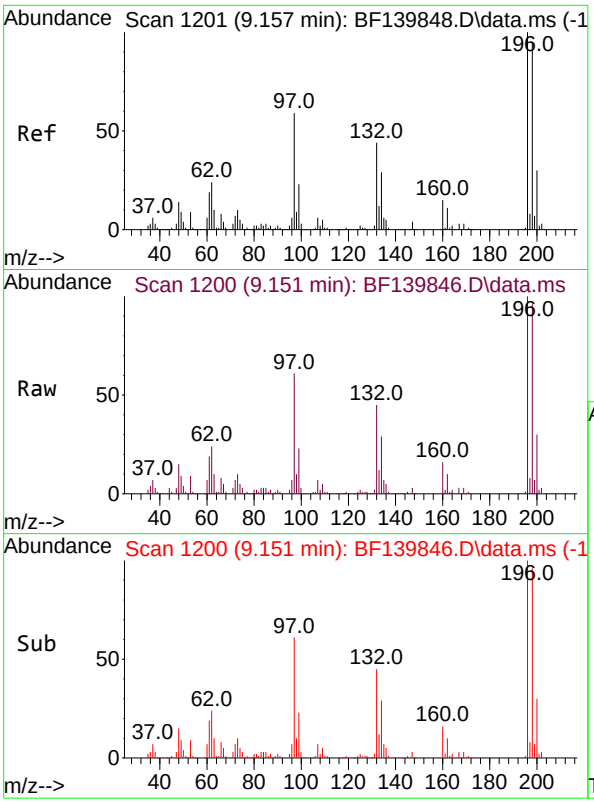


#42
2,4,6-Tribromophenol
Concen: 20.952 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:330 Resp: 80655

Ion	Ratio	Lower	Upper
330	100		
332	95.9	78.1	117.1
141	34.2	26.6	39.8



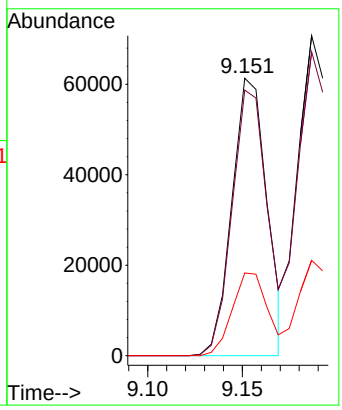


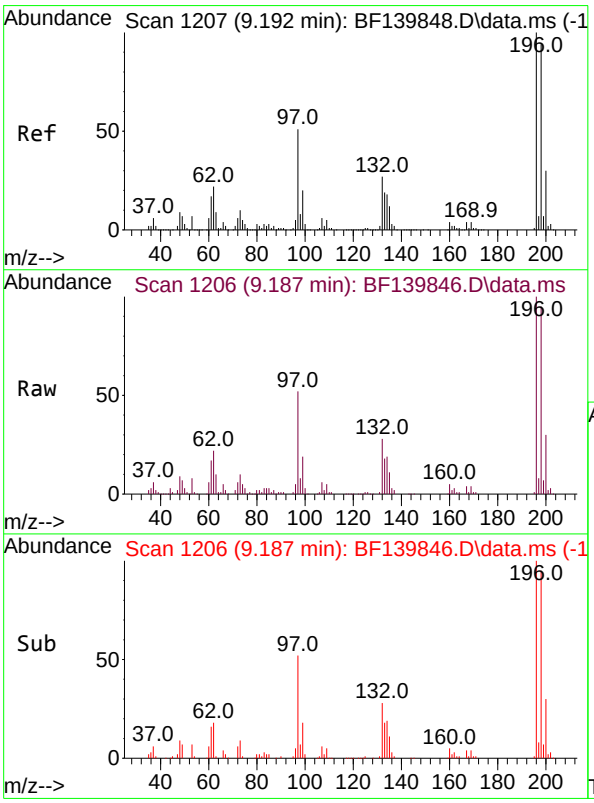
#43
2,4,6-Trichlorophenol
Concen: 9.996 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 78578

Ion	Ratio	Lower	Upper
196	100		
198	95.7	76.2	114.2
200	29.8	24.0	36.0

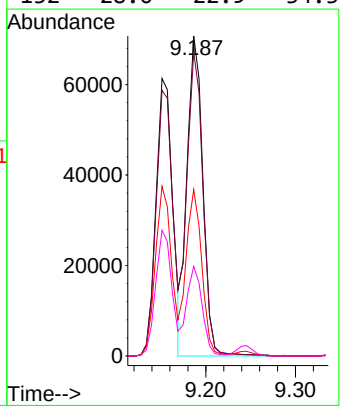


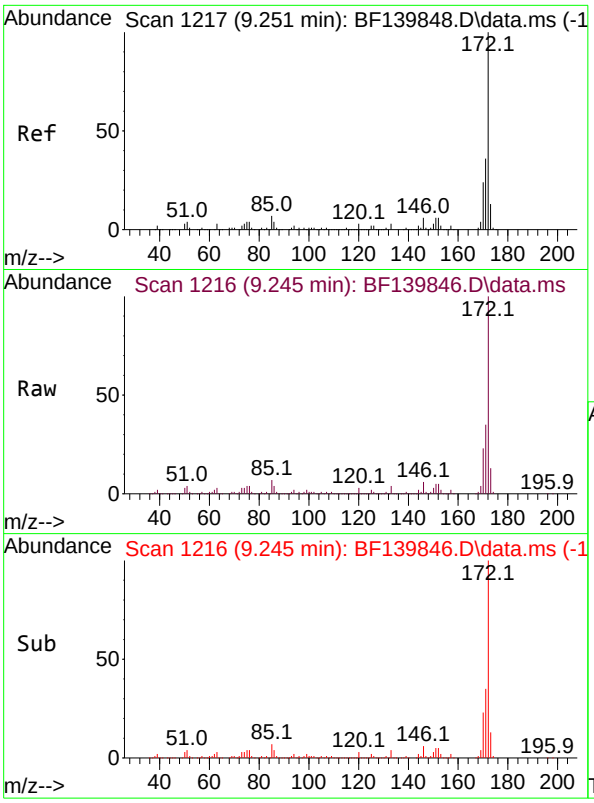


#44
2,4,5-Trichlorophenol
Concen: 10.787 ng
RT: 9.187 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:196 Resp: 87482

Ion	Ratio	Lower	Upper
196	100		
198	94.9	75.8	113.6
97	52.0	41.8	62.6
132	28.0	22.9	34.3



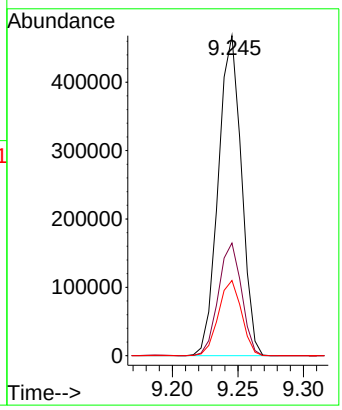


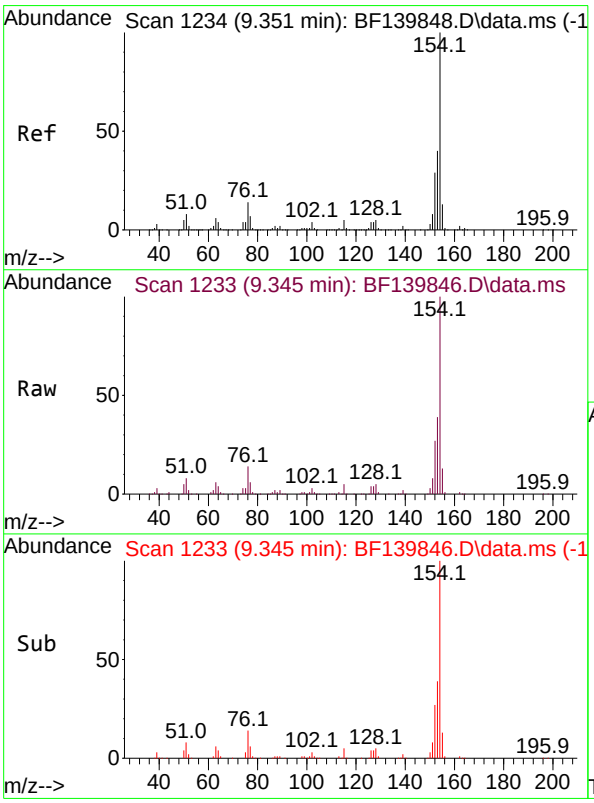
#45
2-Fluorobiphenyl
Concen: 23.073 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 574563

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	43.0
170	23.5	19.1	28.7

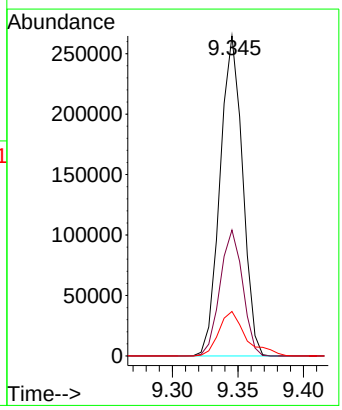


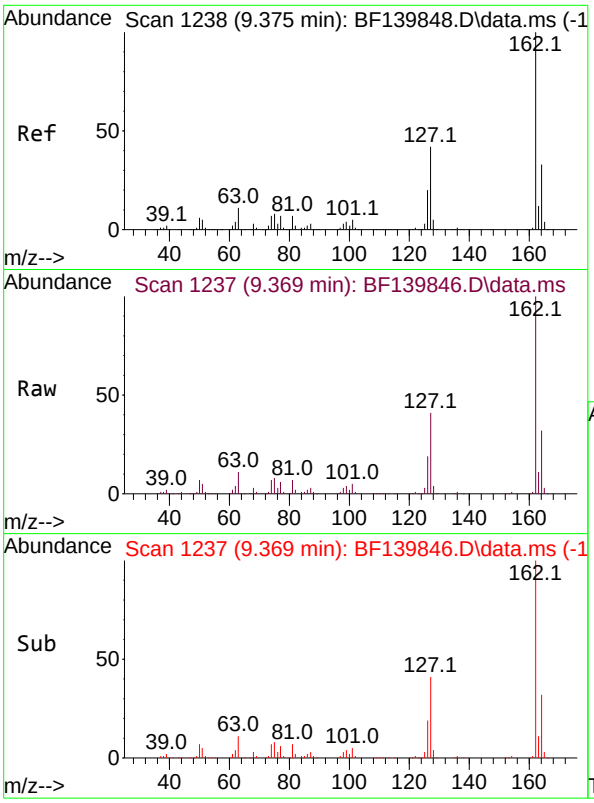


#46
1,1'-Biphenyl
Concen: 11.035 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:154 Resp: 316146

Ion	Ratio	Lower	Upper
154	100		
153	39.4	20.3	60.3
76	13.9	0.0	33.9



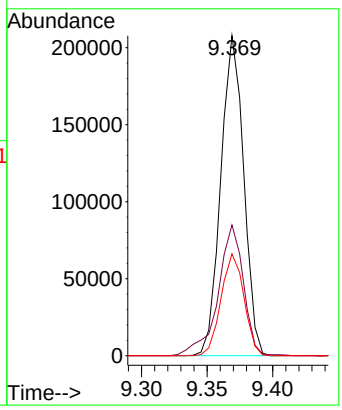


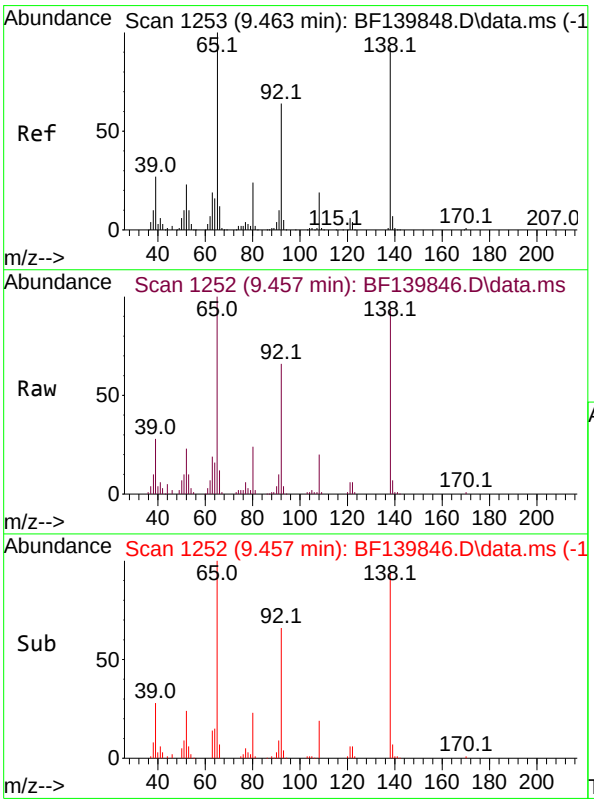
#47
2-Chloronaphthalene
Concen: 10.927 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 252140

Ion	Ratio	Lower	Upper
162	100		
127	40.9	33.8	50.6
164	31.8	26.6	39.8

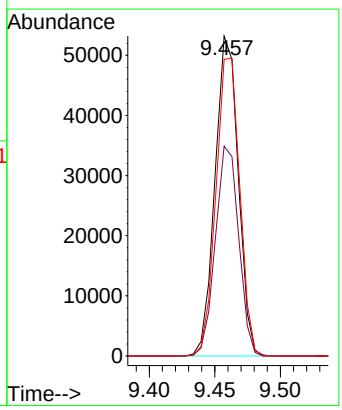


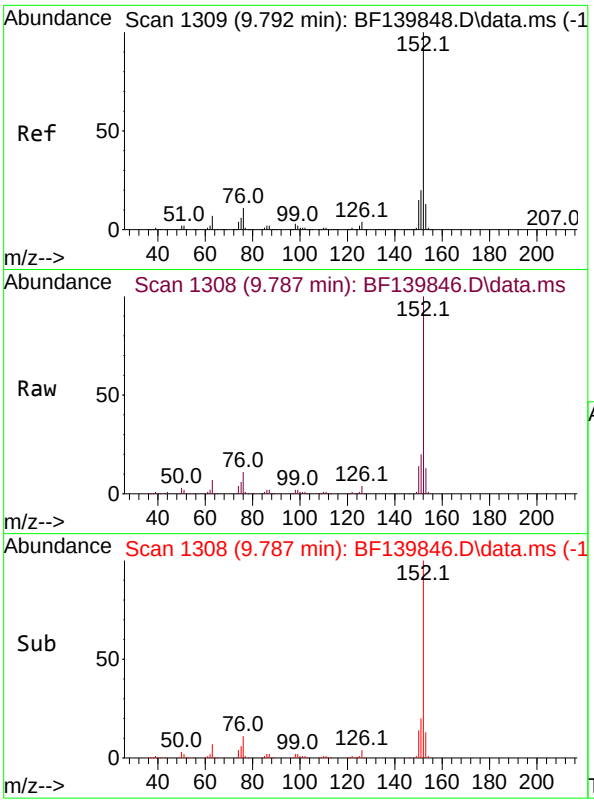


#48
2-Nitroaniline
Concen: 9.270 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion: 65 Resp: 65425

Ion	Ratio	Lower	Upper
65	100		
92	65.5	50.9	76.3
138	92.7	73.4	110.0



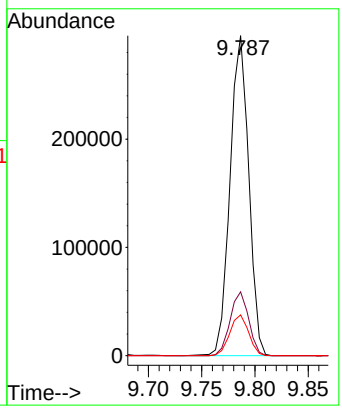


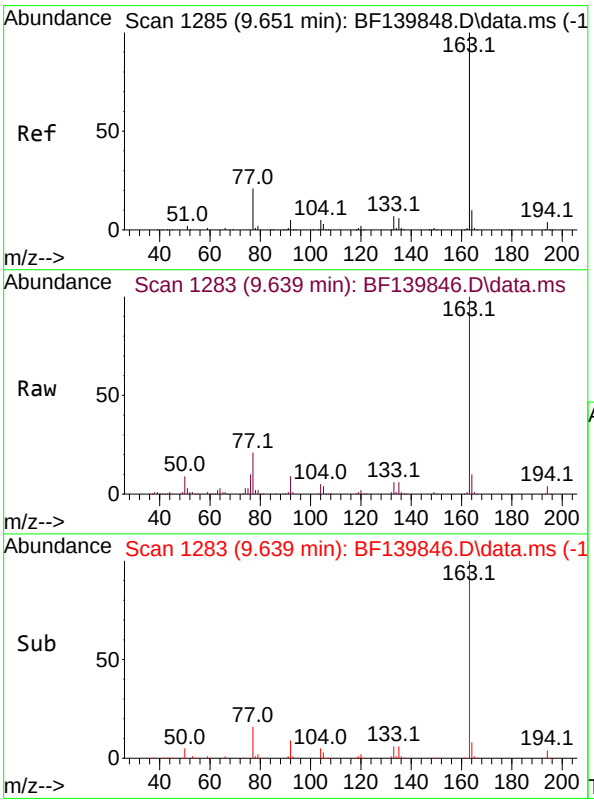
#49
Acenaphthylene
Concen: 10.833 ng
RT: 9.787 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 361398

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.9	23.9
153	12.7	10.7	16.1

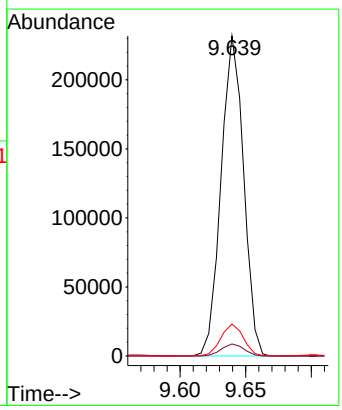


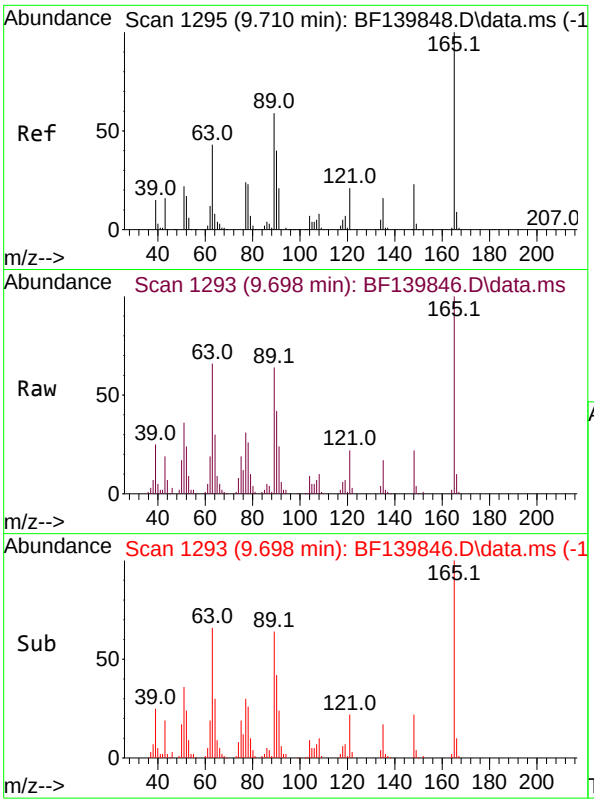


#50
Dimethylphthalate
Concen: 10.792 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:163 Resp: 276645

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.4	5.0
164	10.0	8.2	12.2



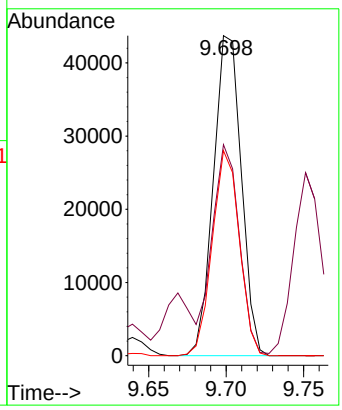


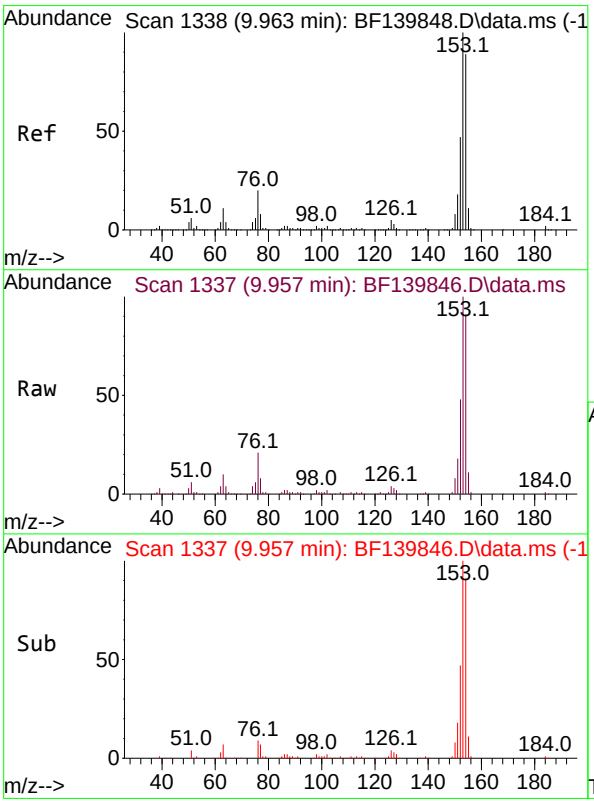
#51
2,6-Dinitrotoluene
Concen: 9.877 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 54824

Ion	Ratio	Lower	Upper
165	100		
63	66.0	50.6	75.8
89	64.1	47.5	71.3

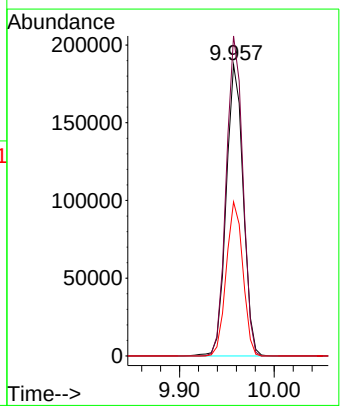


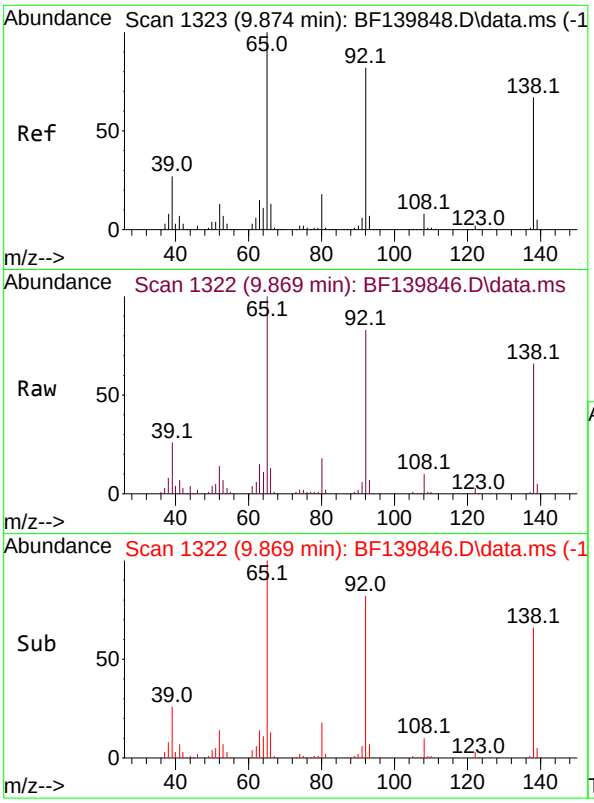


#52
Acenaphthene
Concen: 10.832 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:154 Resp: 233749

Ion	Ratio	Lower	Upper
154	100		
153	109.8	89.8	134.6
152	52.9	42.4	63.6



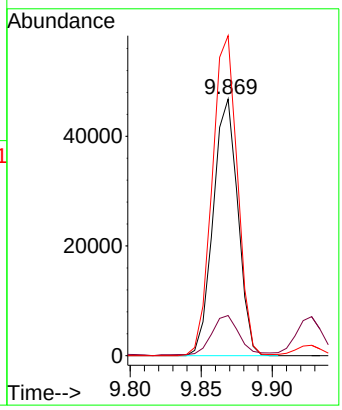


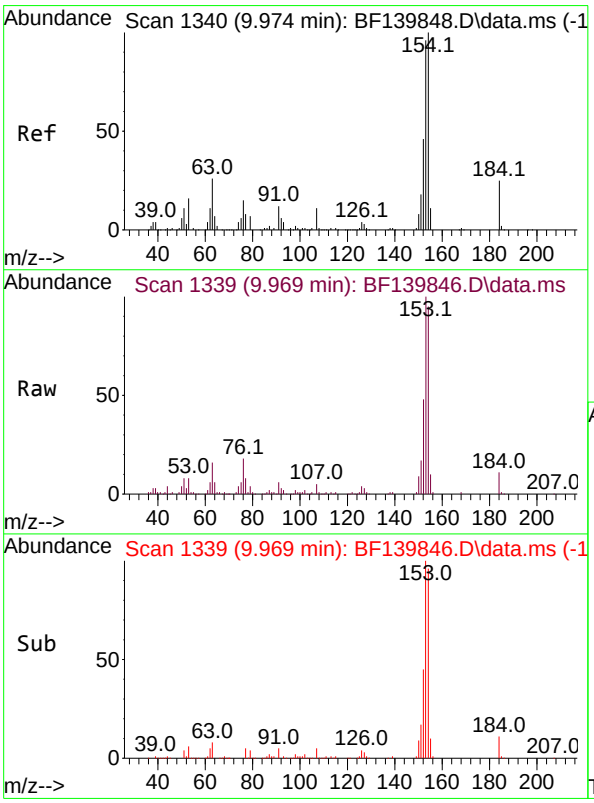
#53
3-Nitroaniline
Concen: 9.884 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 56574

Ion	Ratio	Lower	Upper
138	100		
108	15.7	10.2	15.2#
92	124.7	98.3	147.5

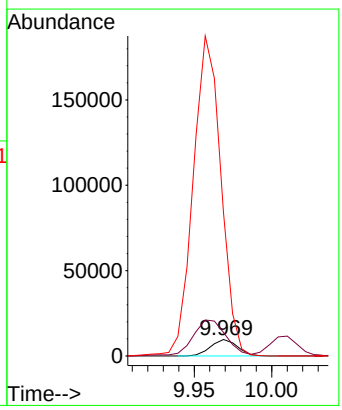


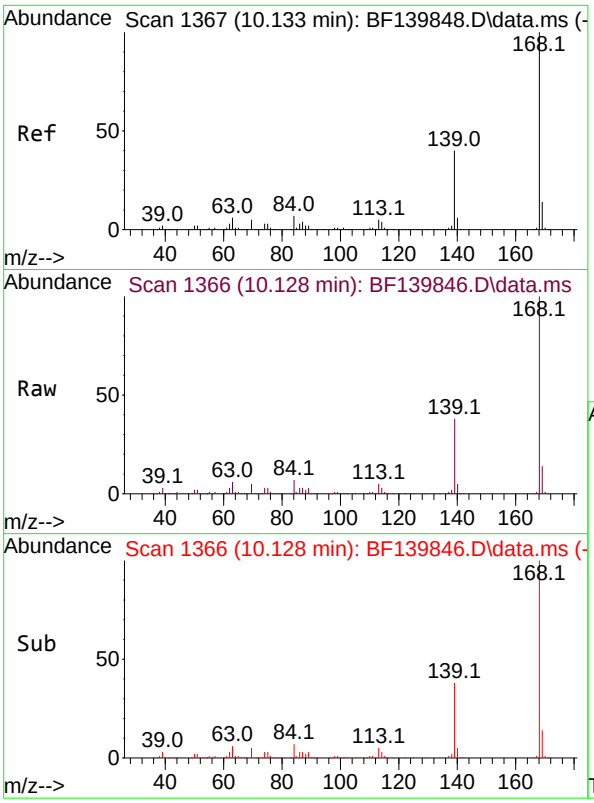


#54
2,4-Dinitrophenol
Concen: 11.138 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.005 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:184 Resp: 11577

Ion	Ratio	Lower	Upper
184	100		
63	142.4	84.7	127.1#
154	870.2	338.2	507.2#



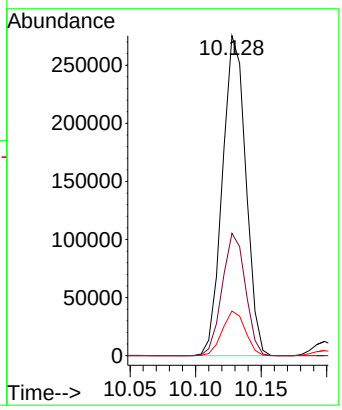


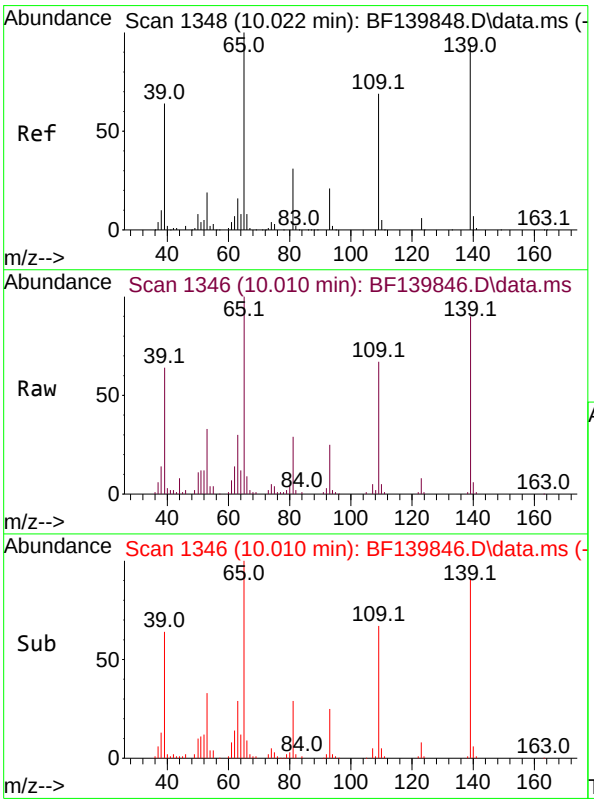
#55
Dibenzofuran
Concen: 11.028 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 341446

Ion	Ratio	Lower	Upper
168	100		
139	38.2	31.8	47.6
169	13.9	11.6	17.4

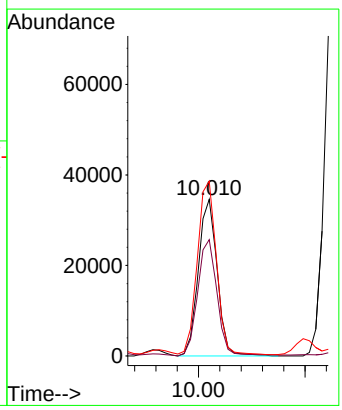


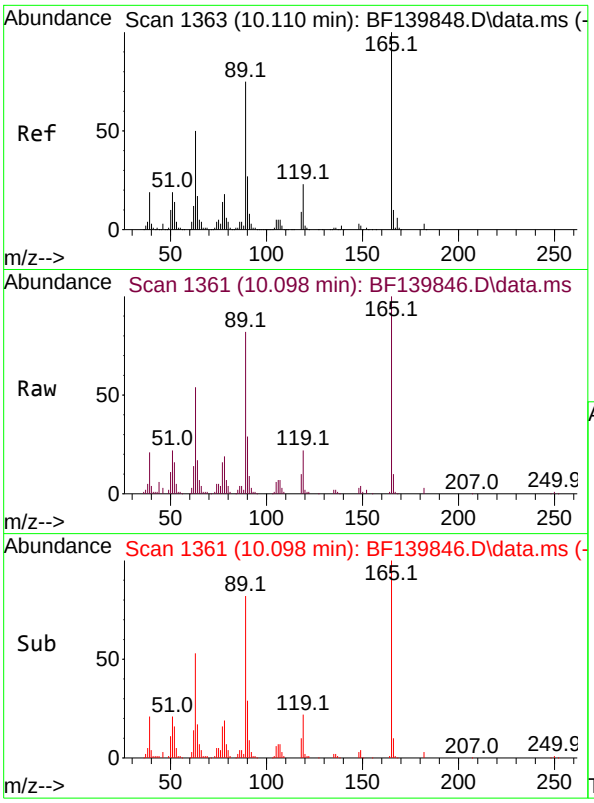


#56
4-Nitrophenol
Concen: 9.694 ng
RT: 10.010 min Scan# 1346
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:139 Resp: 42688

Ion	Ratio	Lower	Upper
139	100		
109	74.3	53.6	93.6
65	111.6	87.8	127.8



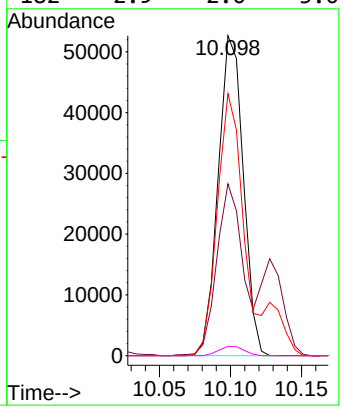


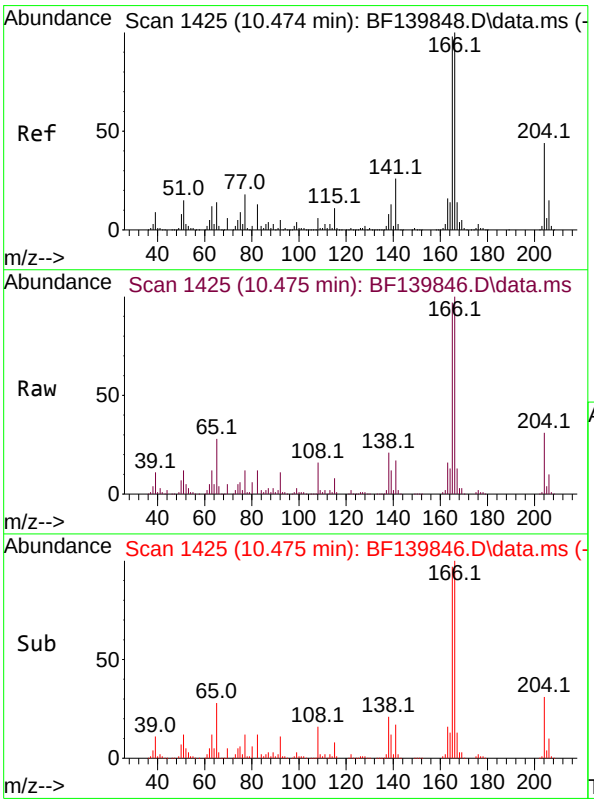
#57
2,4-Dinitrotoluene
Concen: 9.474 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 64666

Ion	Ratio	Lower	Upper
165	100		
63	53.7	40.1	60.1
89	81.9	60.4	90.6
182	2.9	2.0	3.0

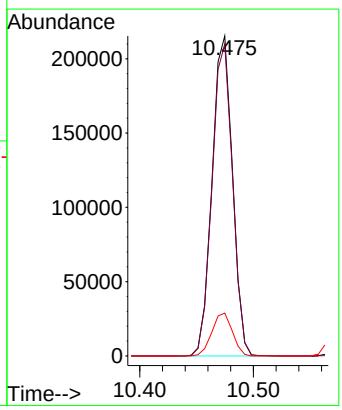


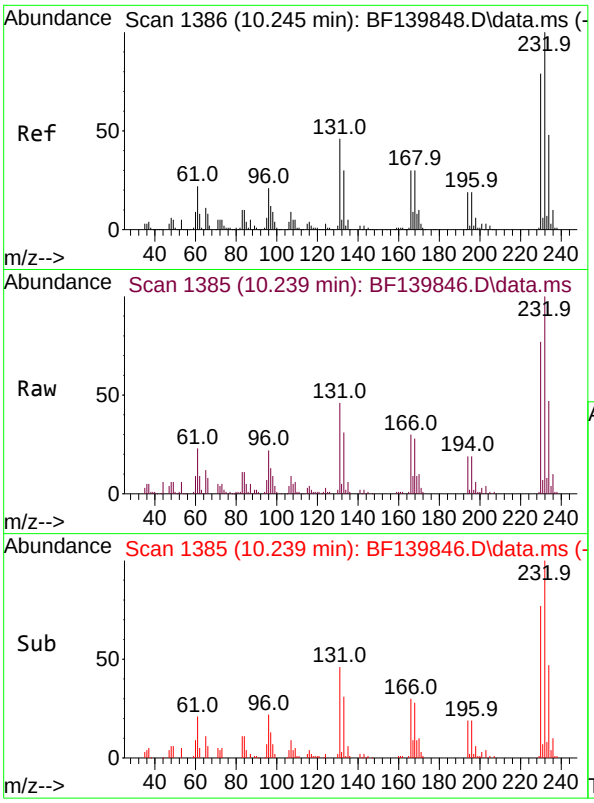


#58
Fluorene
Concen: 11.420 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:166 Resp: 269323

Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.5	117.7
167	13.4	10.9	16.3



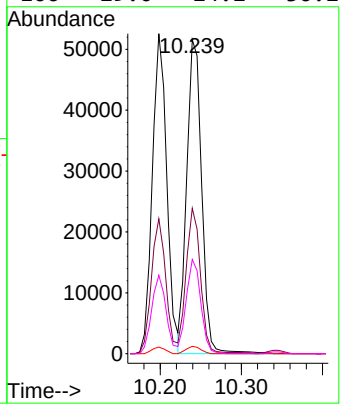


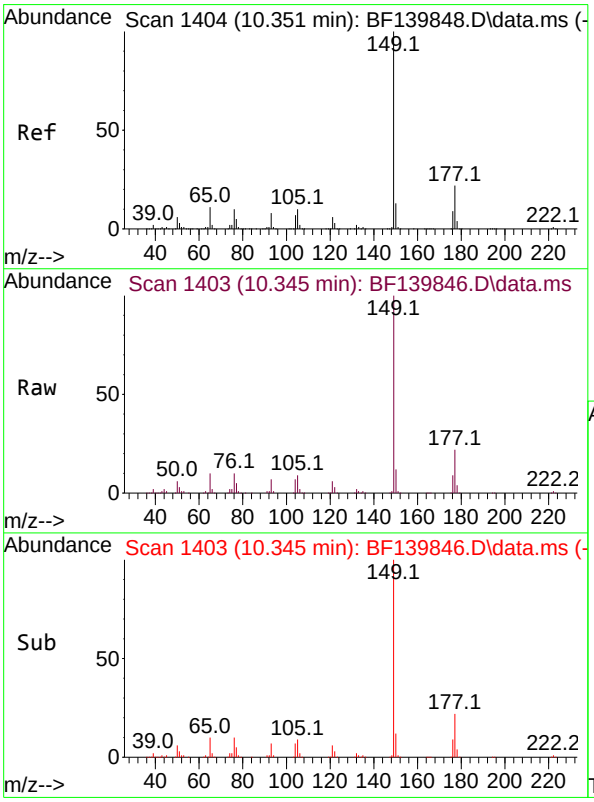
#59
2,3,4,6-Tetrachlorophenol
Concen: 10.408 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 66170

Ion	Ratio	Lower	Upper
232	100		
131	44.4	37.0	55.6
130	2.3	1.9	2.9
166	29.0	24.2	36.2

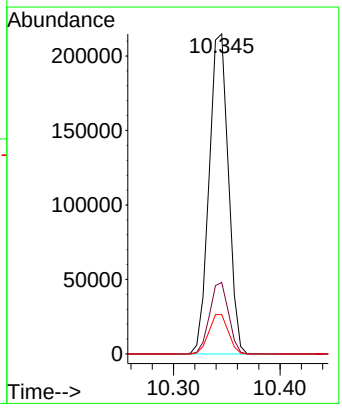


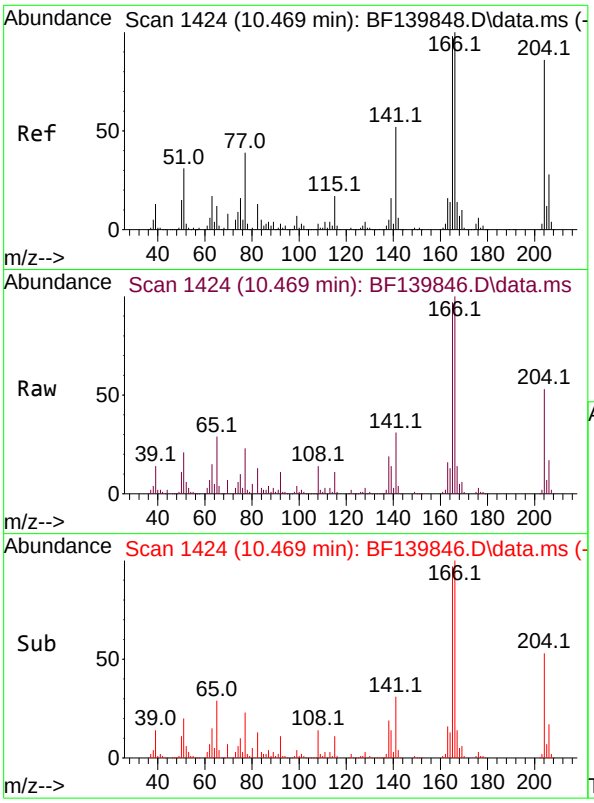


#60
Diethylphthalate
Concen: 10.694 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:149 Resp: 269178

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	12.3	10.1	15.1



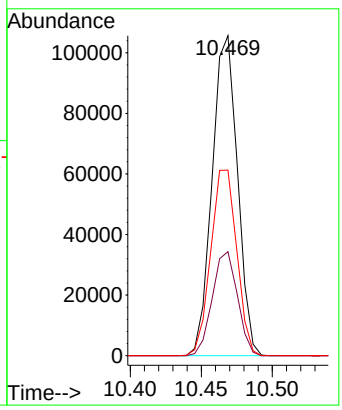


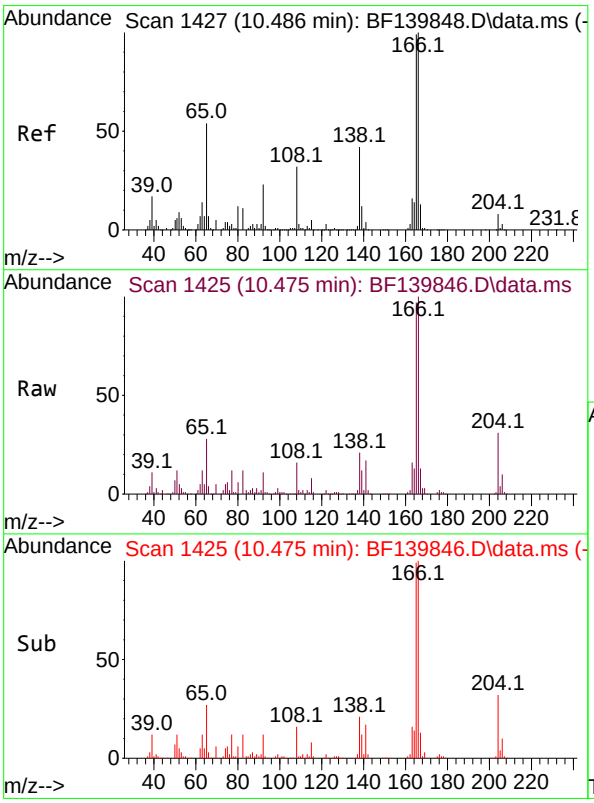
#61
4-Chlorophenyl-phenylether
Concen: 11.016 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 131191

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.3	39.5
141	58.0	48.6	73.0

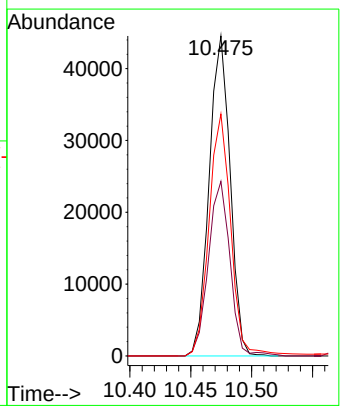


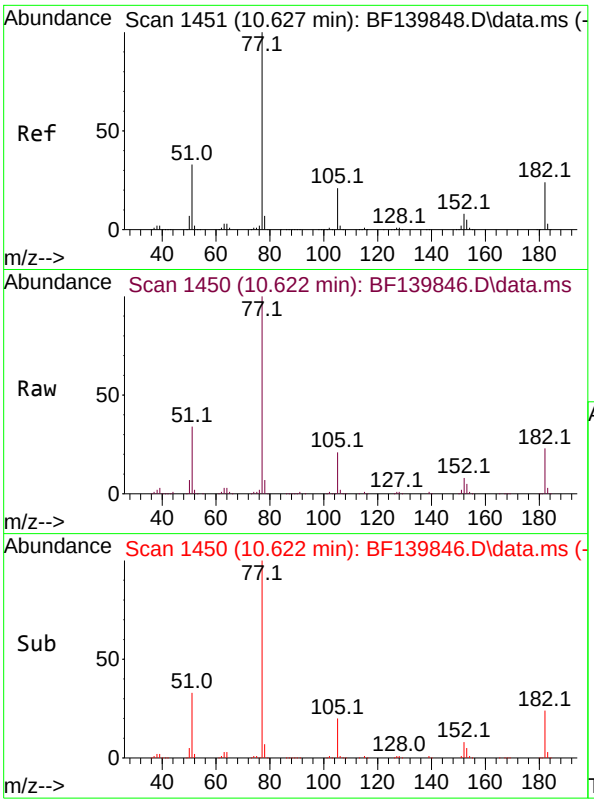


#62
4-Nitroaniline
Concen: 9.857 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:138 Resp: 53288

Ion	Ratio	Lower	Upper
138	100		
92	54.6	35.7	75.7
108	75.6	57.5	97.5



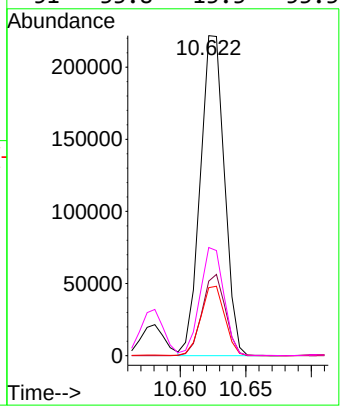


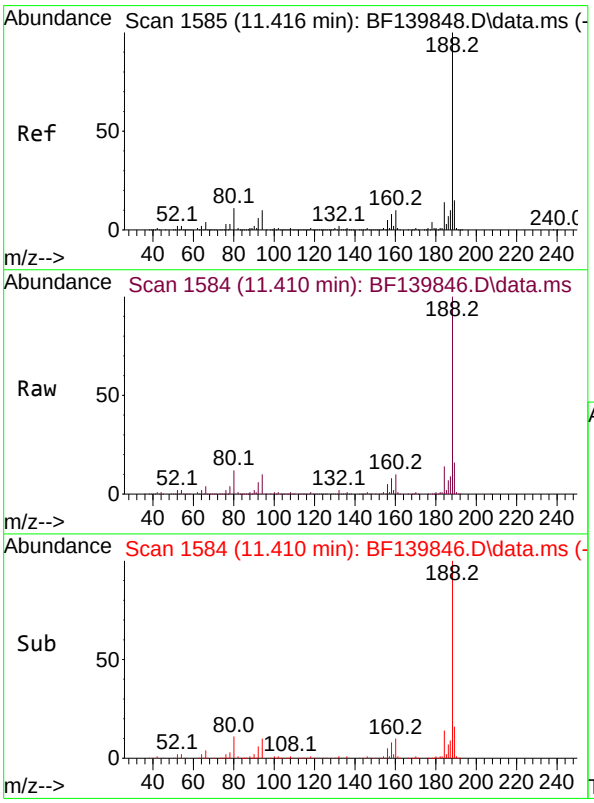
#63
Azobenzene
Concen: 10.679 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 284960

Ion	Ratio	Lower	Upper
77	100		
182	23.3	3.3	43.3
105	21.3	1.2	41.2
51	33.8	13.3	53.3

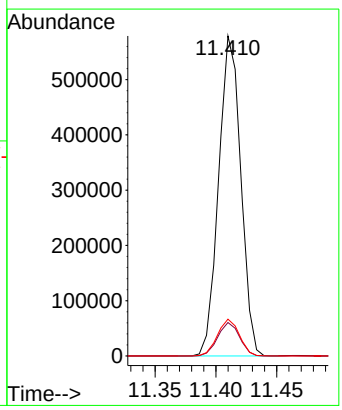


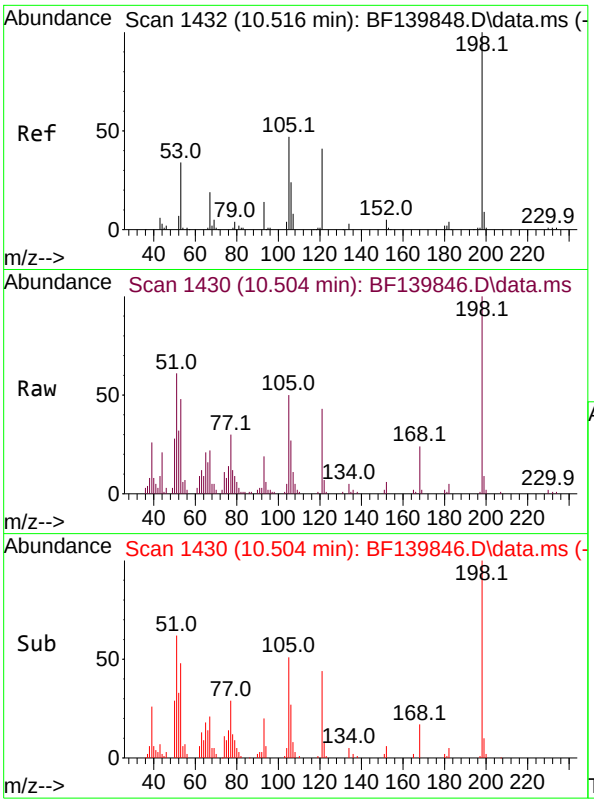


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:188 Resp: 732661

Ion	Ratio	Lower	Upper
188	100		
94	10.5	7.9	11.9
80	11.5	9.0	13.4



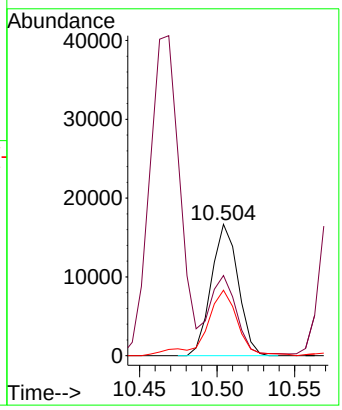


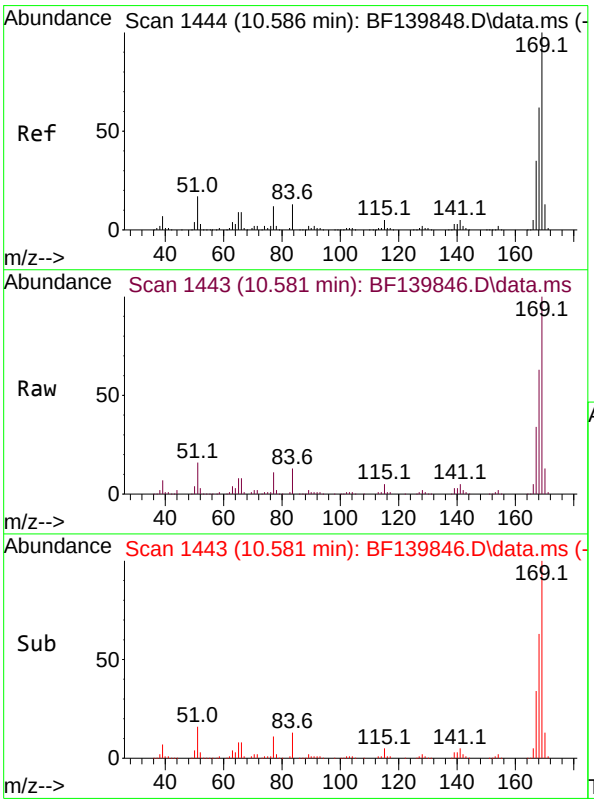
#65
4,6-Dinitro-2-methylphenol
Concen: 6.732 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 20120

Ion	Ratio	Lower	Upper
198	100		
51	61.0	38.2	78.2
105	49.9	27.9	67.9

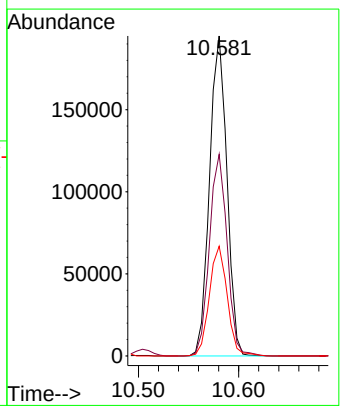


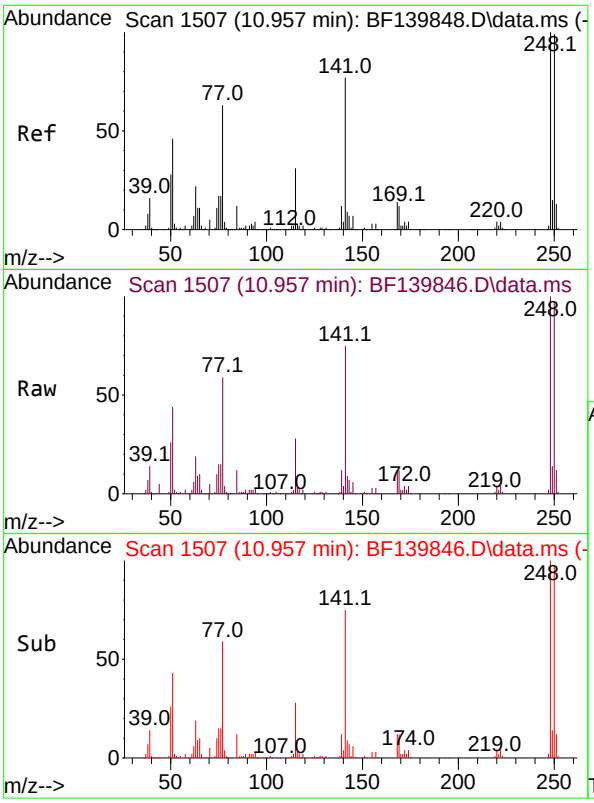


#66
n-Nitrosodiphenylamine
Concen: 10.705 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:169 Resp: 234741

Ion	Ratio	Lower	Upper
169	100		
168	63.0	49.8	74.6
167	34.3	28.0	42.0



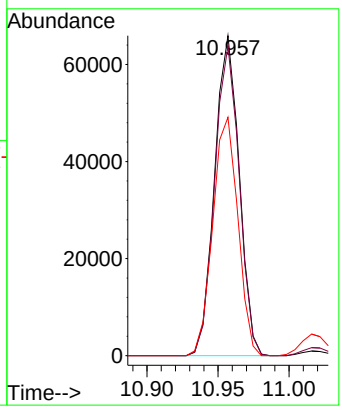


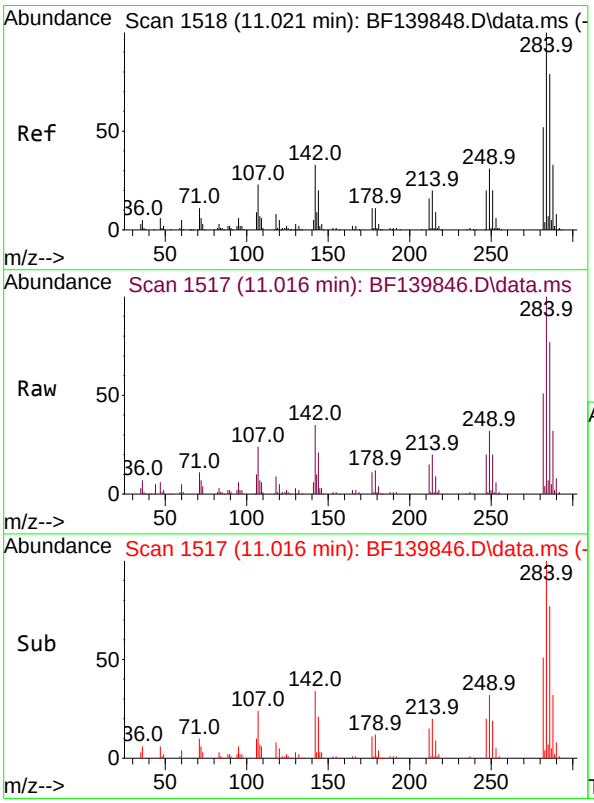
#67
4-Bromophenyl-phenylether
Concen: 10.522 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 79420

Ion	Ratio	Lower	Upper
248	100		
250	96.8	79.0	118.6
141	74.5	61.7	92.5

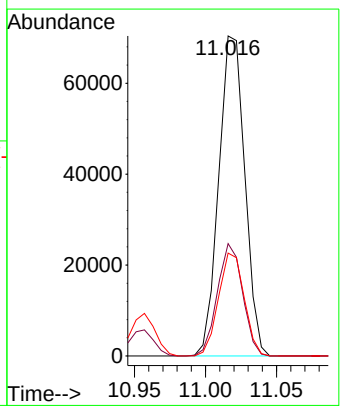


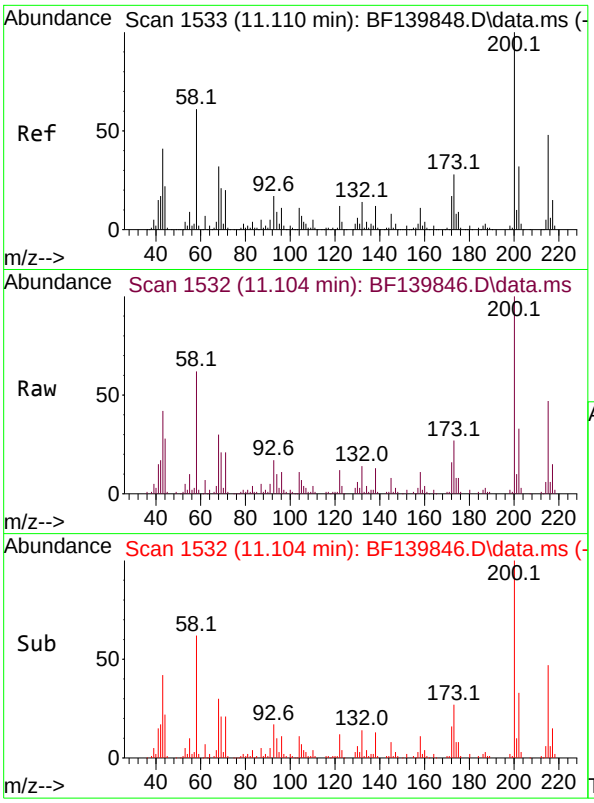


#68
Hexachlorobenzene
Concen: 10.594 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:284 Resp: 89927

Ion	Ratio	Lower	Upper
284	100		
142	35.1	26.9	40.3
249	32.2	25.3	37.9



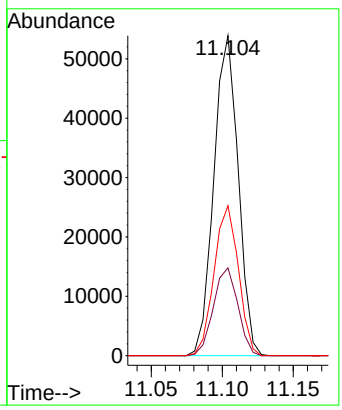


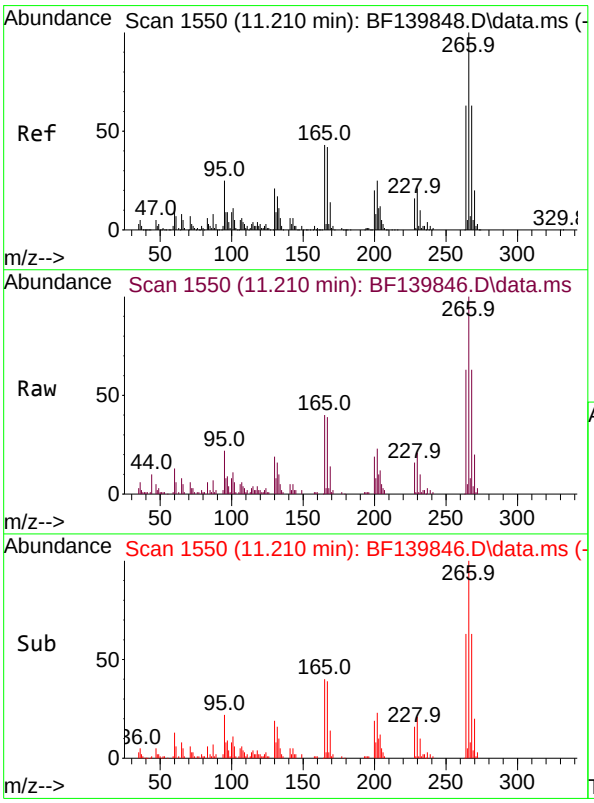
#69
Atrazine
Concen: 10.819 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 64267

Ion	Ratio	Lower	Upper
200	100		
173	27.4	7.7	47.7
215	46.8	27.7	67.7

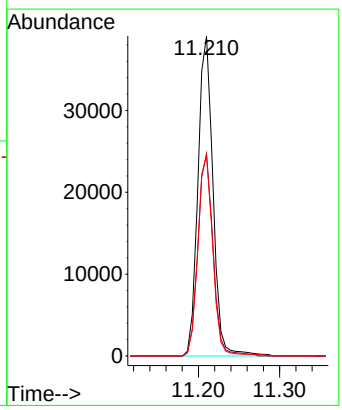


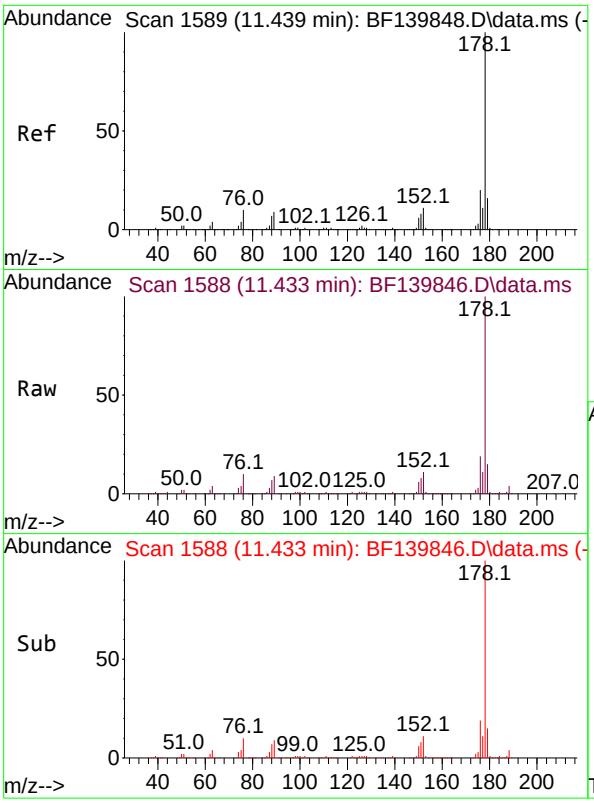


#70
Pentachlorophenol
Concen: 9.775 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:266 Resp: 50361

Ion	Ratio	Lower	Upper
266	100		
268	63.2	50.4	75.6
264	62.8	50.6	75.8



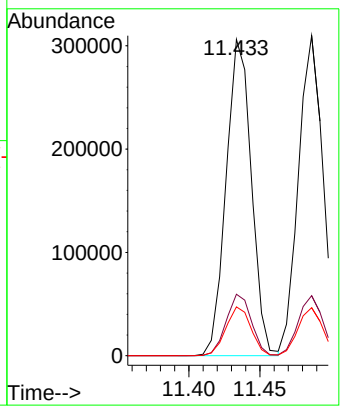


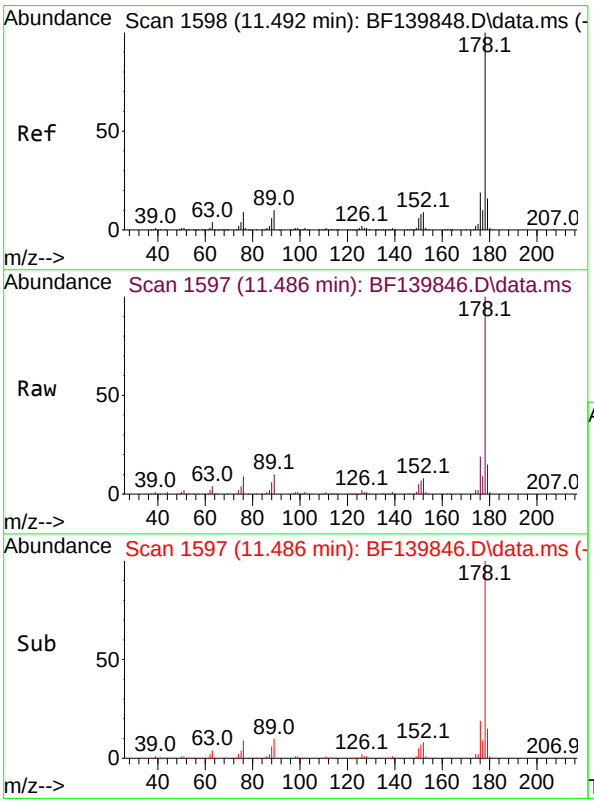
#71
Phenanthrene
Concen: 10.958 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 379233

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.6
179	15.4	12.6	18.8

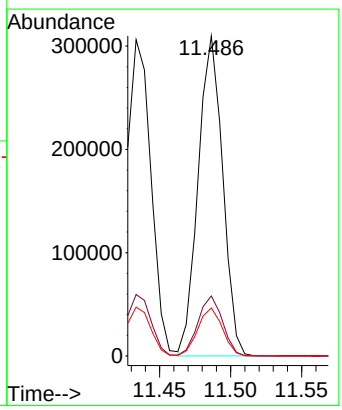


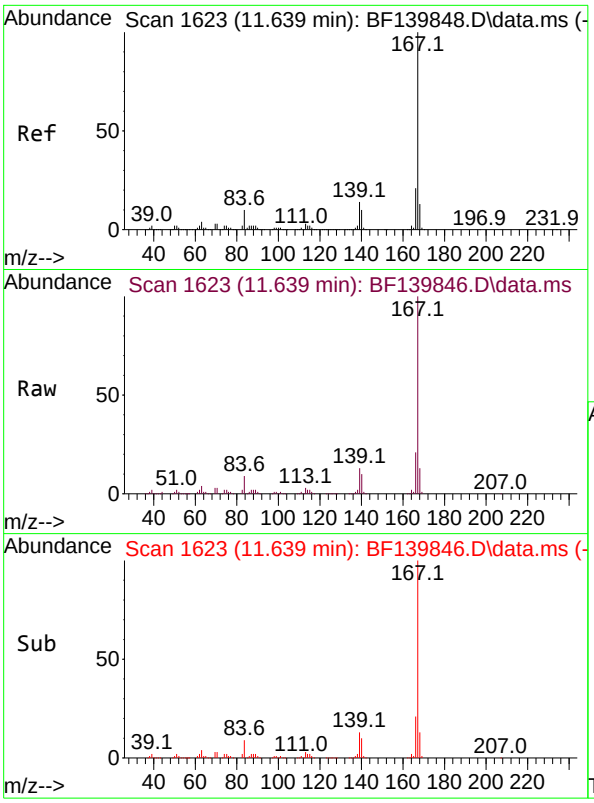


#72
Anthracene
Concen: 10.999 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:178 Resp: 371391

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.3	22.9
179	15.0	12.4	18.6



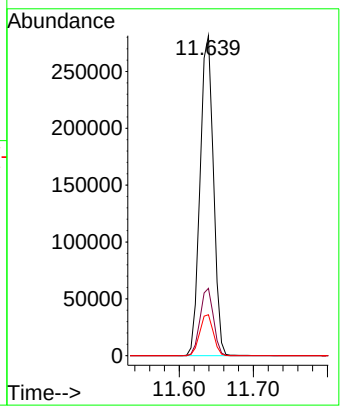


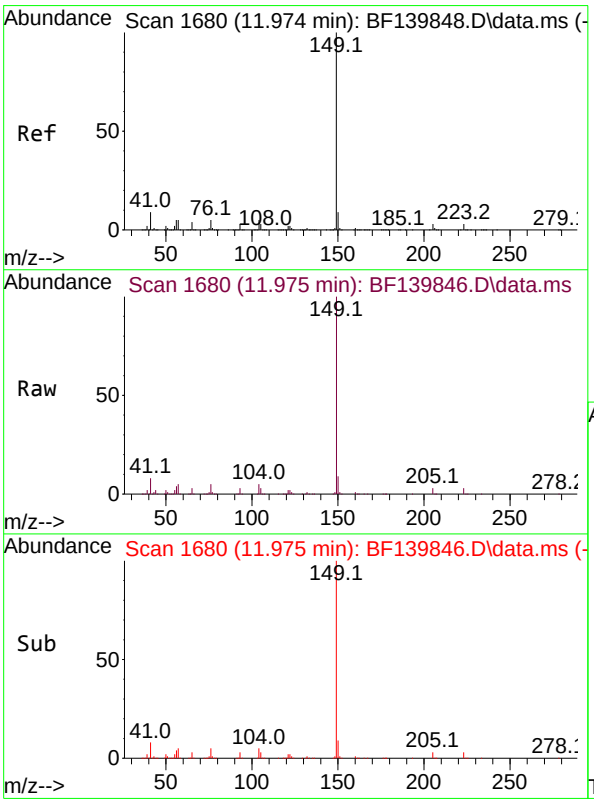
#73
Carbazole
Concen: 11.249 ng
RT: 11.639 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 353253

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.0	25.6
139	12.8	10.8	16.2

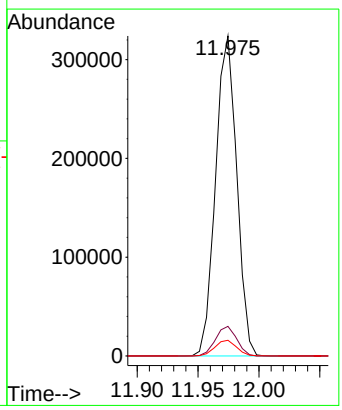


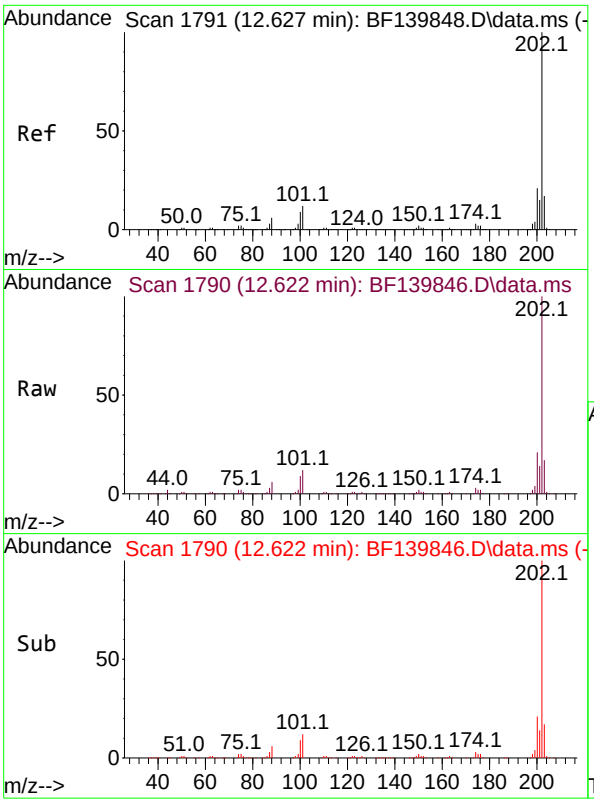


#74
Di-n-butylphthalate
Concen: 10.818 ng
RT: 11.975 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:149 Resp: 392482

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.5	11.3
104	4.9	4.1	6.1



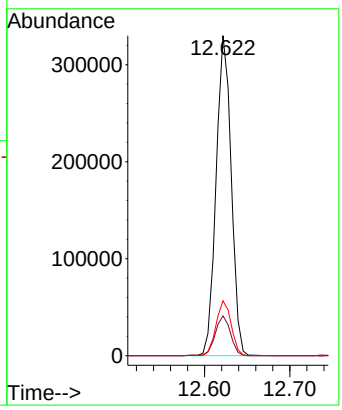


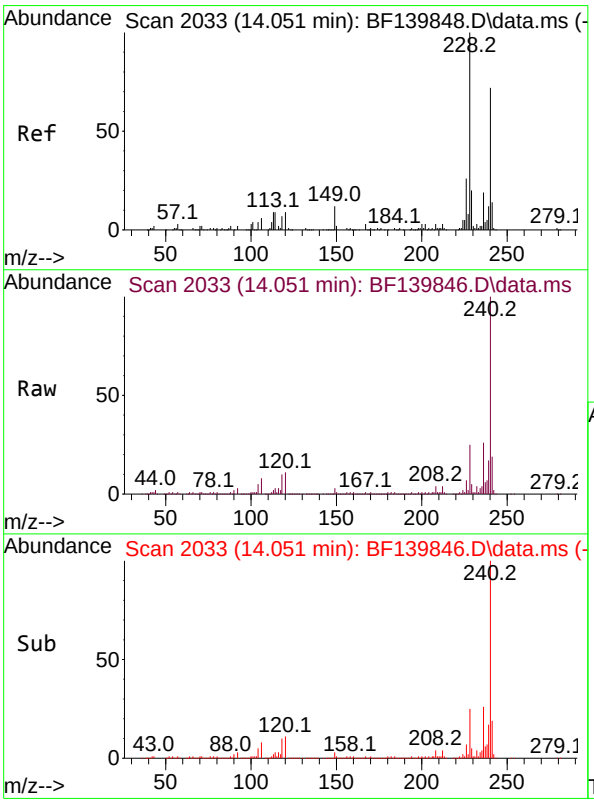
#75
Fluoranthene
Concen: 11.602 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 405919

Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	31.9
203	17.2	0.0	37.5

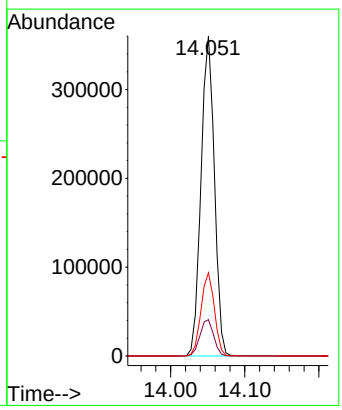


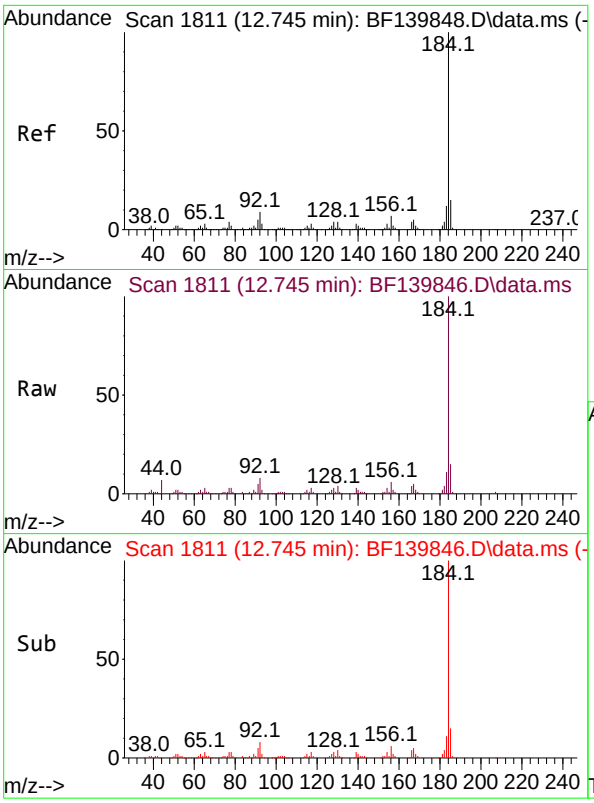


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:240 Resp: 452443

Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.4	14.2
236	26.0	20.9	31.3



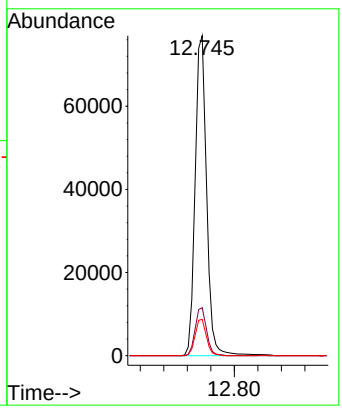


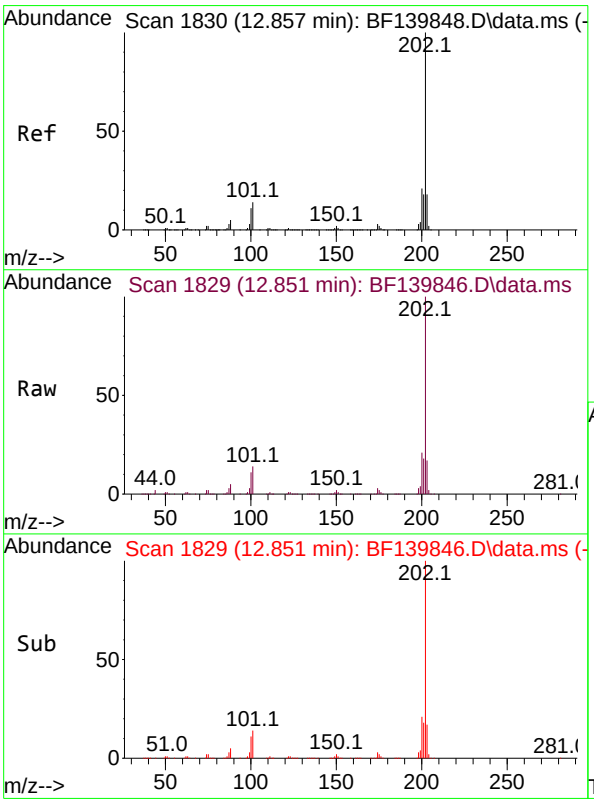
#77
Benzidine
Concen: 14.168 ng
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 104253

Ion	Ratio	Lower	Upper
184	100		
185	15.0	12.0	18.0
183	11.4	9.4	14.2

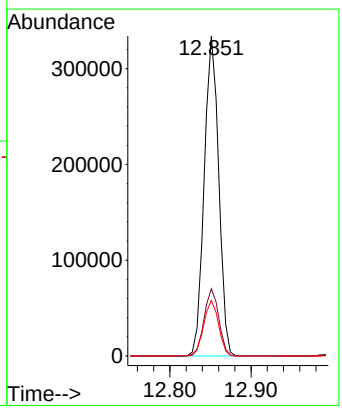


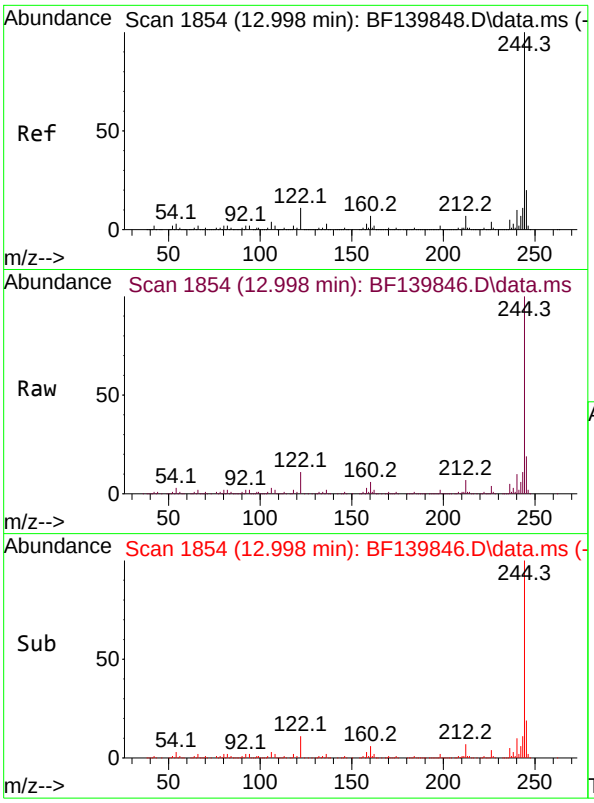


#78
Pyrene
Concen: 10.444 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:202 Resp: 413606

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.2	25.8
203	17.4	14.2	21.4



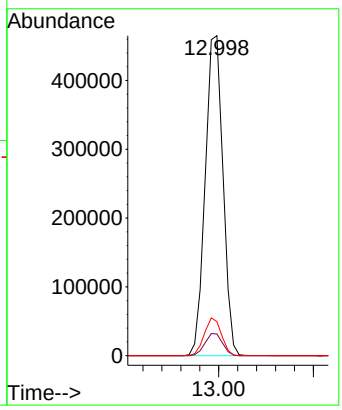


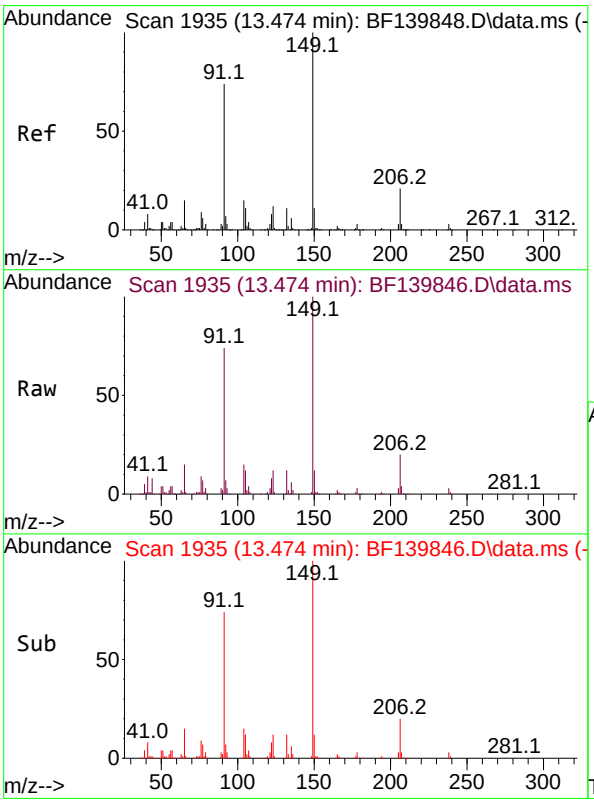
#79
Terphenyl-d14
Concen: 21.745 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 603787

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	10.6	8.6	13.0

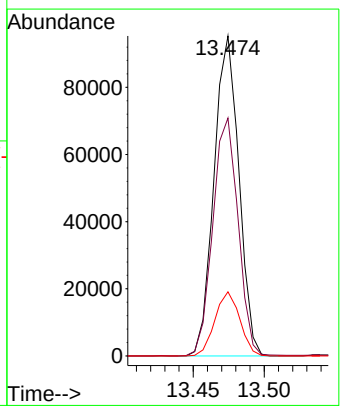


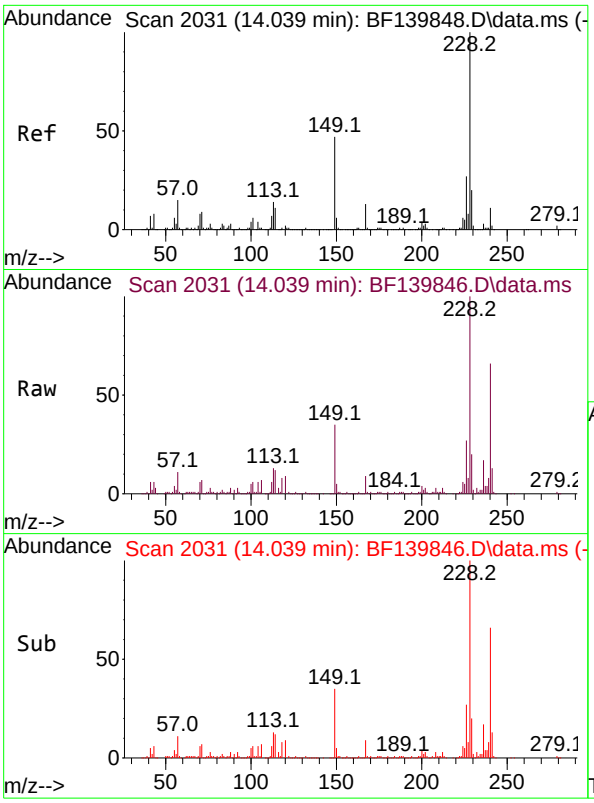


#80
Butylbenzylphthalate
Concen: 9.774 ng
RT: 13.474 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:149 Resp: 116053

Ion	Ratio	Lower	Upper
149	100		
91	74.4	59.4	89.2
206	20.1	16.4	24.6



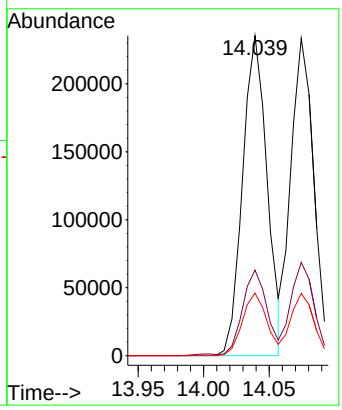


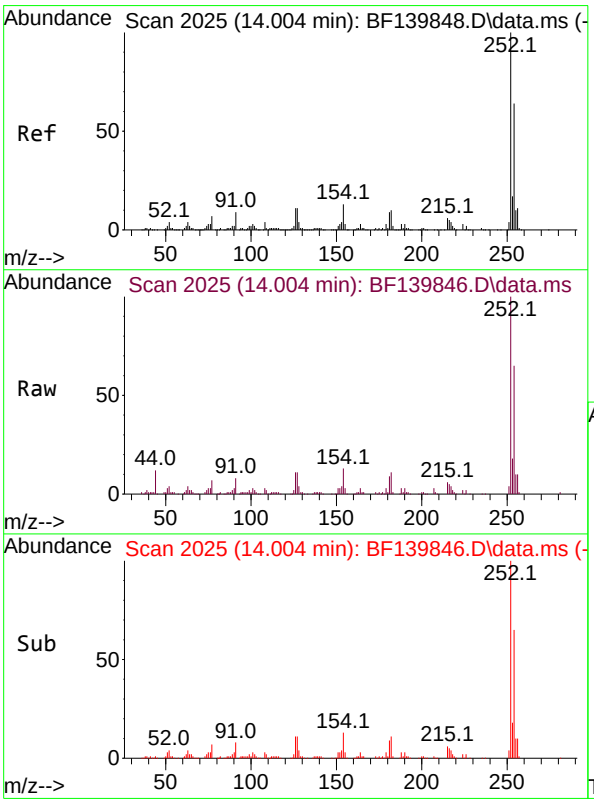
#81
Benzo(a)anthracene
Concen: 10.410 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 306594

Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.6	32.4
229	19.5	16.1	24.1

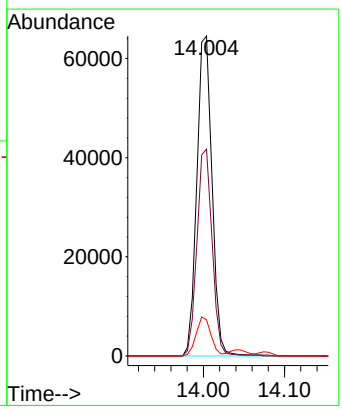


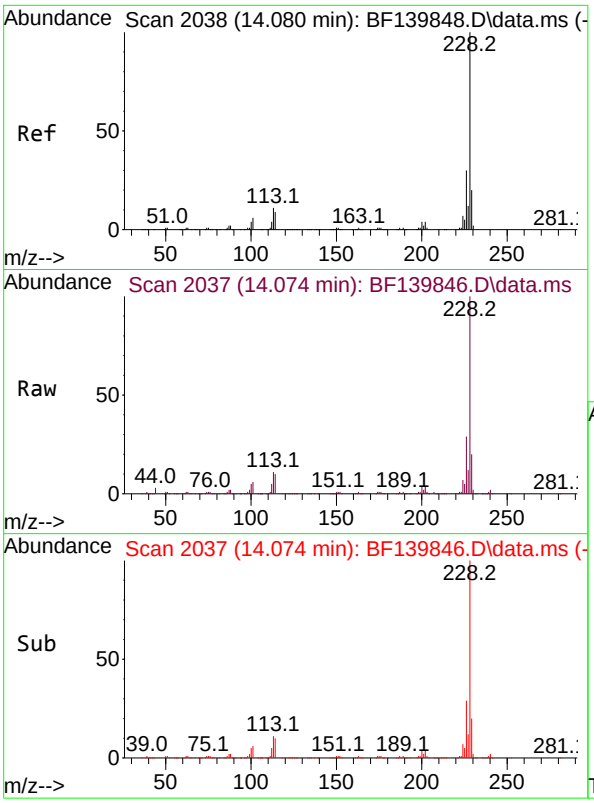


#82
3,3'-Dichlorobenzidine
Concen: 9.806 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:252 Resp: 84205

Ion	Ratio	Lower	Upper
252	100		
254	64.7	50.8	76.2
126	11.3	8.9	13.3



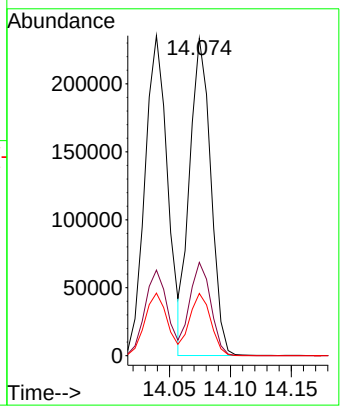


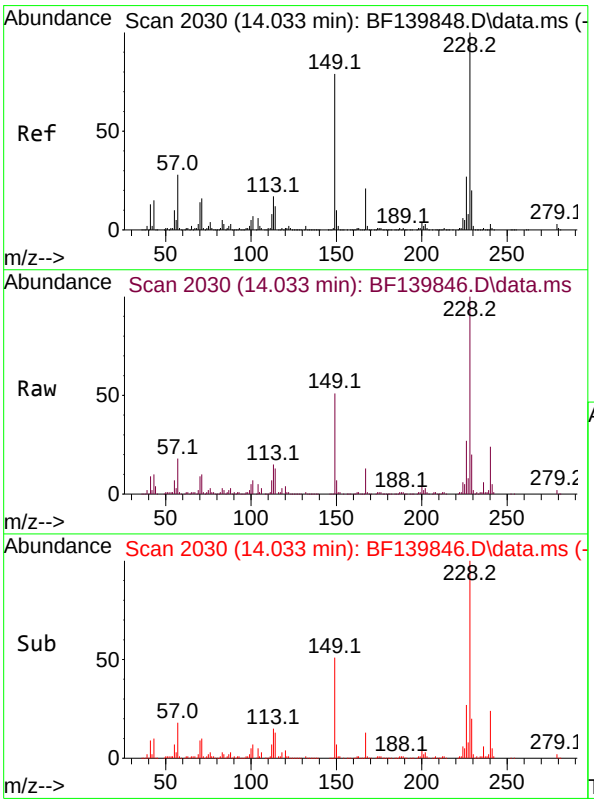
#83
Chrysene
Concen: 10.423 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 281467

Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.1	36.1
229	19.6	15.8	23.6

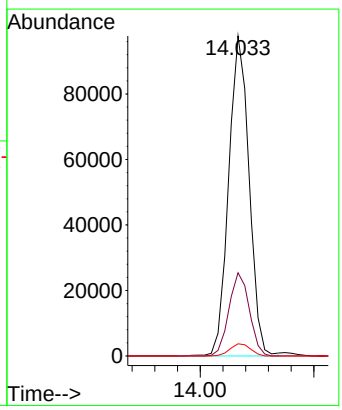


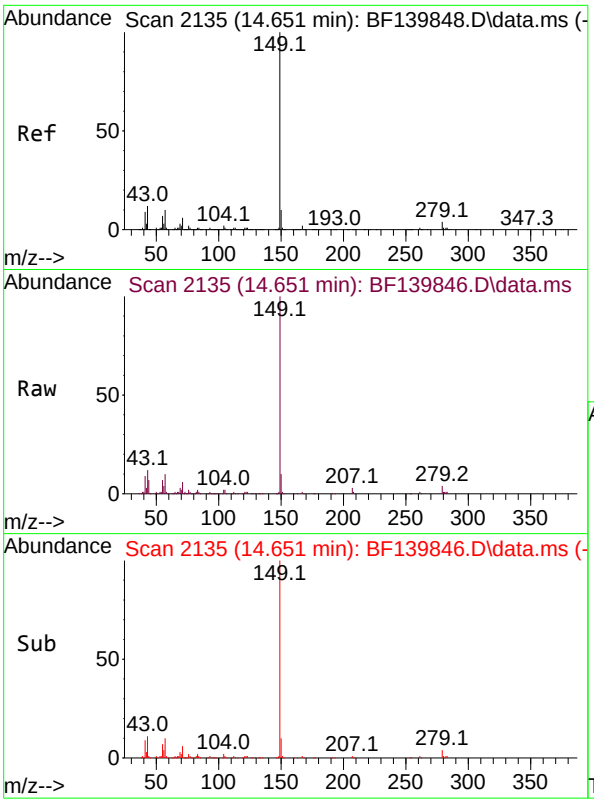


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.153 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:149 Resp: 121932

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.4	32.0
279	3.8	3.0	4.4



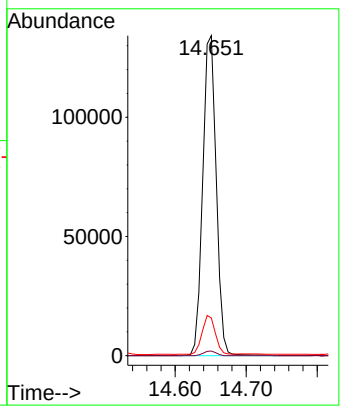


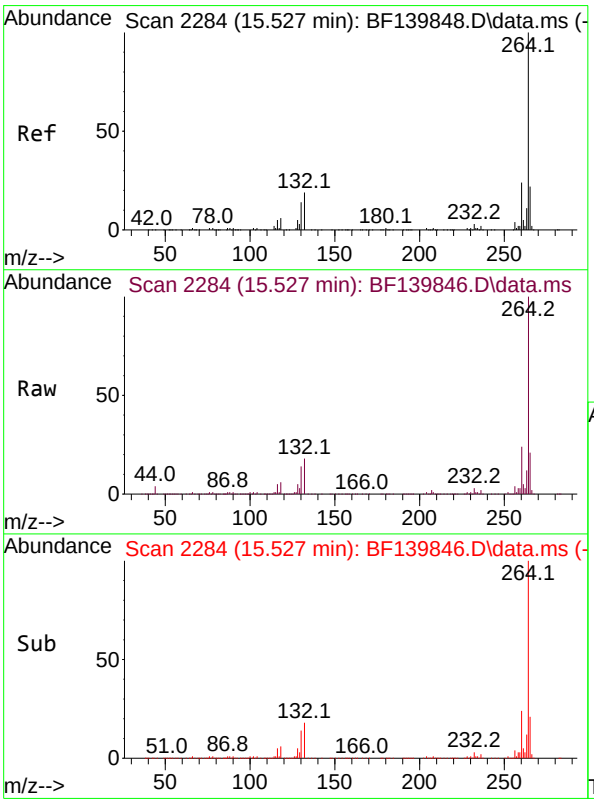
#85
Di-n-octyl phthalate
Concen: 7.339 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 177824

Ion	Ratio	Lower	Upper
149	100		
167	1.4	1.2	1.8
43	11.8	9.8	14.6

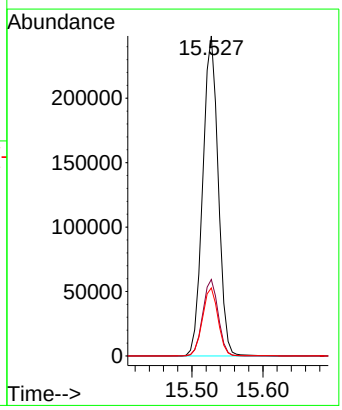


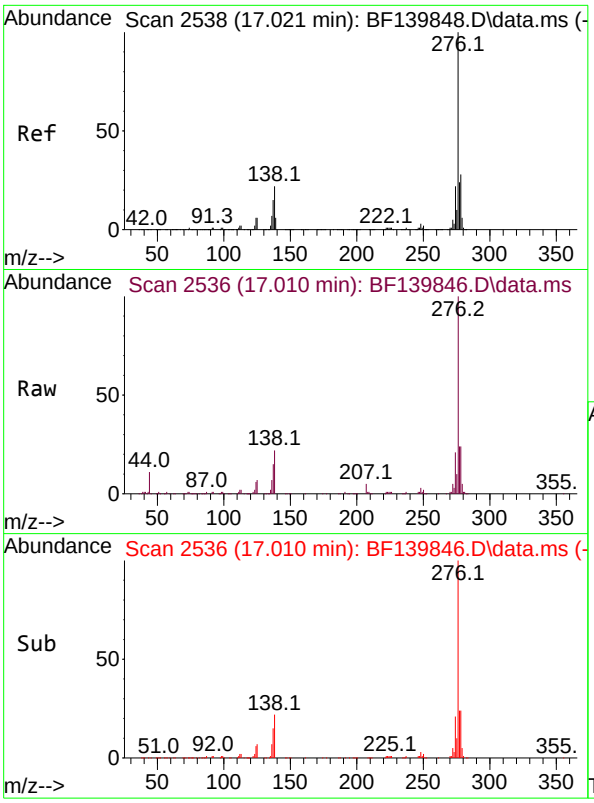


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:264 Resp: 375863

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	21.3	17.4	26.0



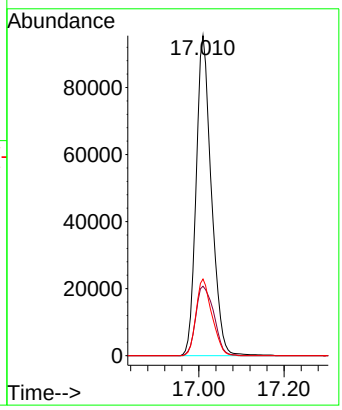


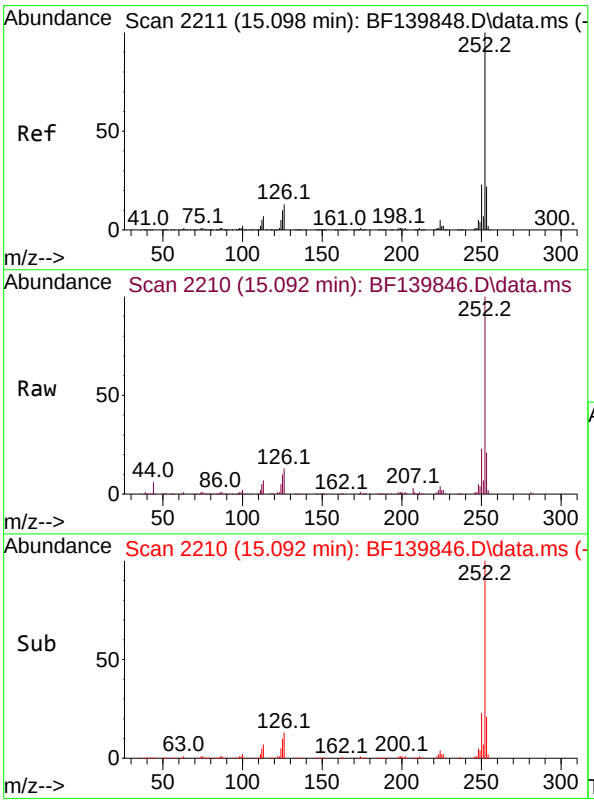
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.798 ng
RT: 17.010 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 236914

Ion	Ratio	Lower	Upper
276	100		
138	25.8	20.4	30.6
277	25.0	20.2	30.4

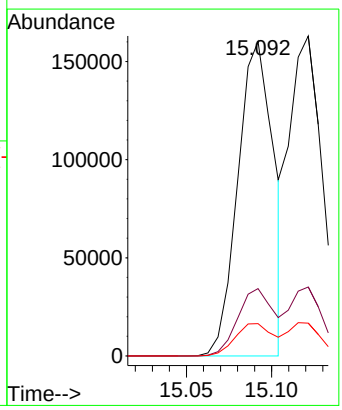


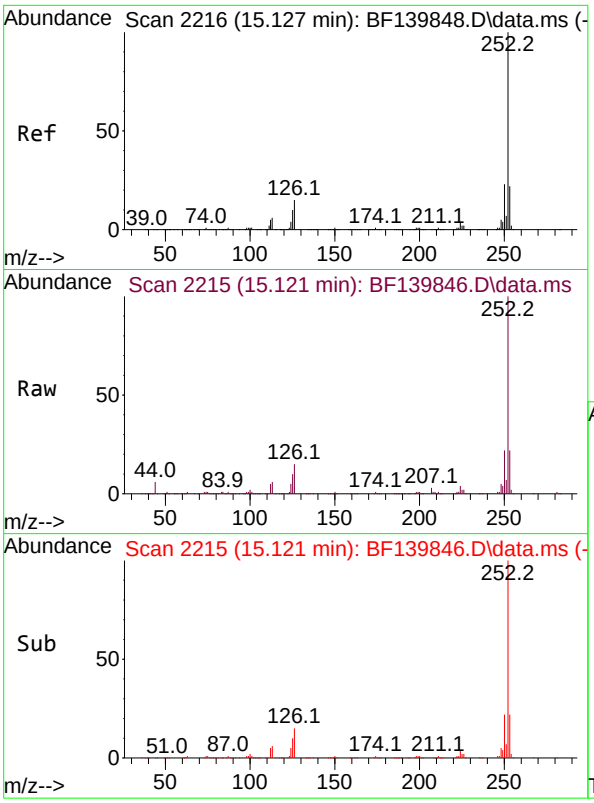


#88
Benzo(b)fluoranthene
Concen: 10.176 ng
RT: 15.092 min Scan# 2210
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:252 Resp: 232988

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.6	26.4
125	10.3	7.9	11.9



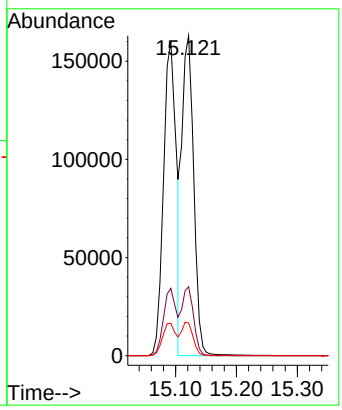


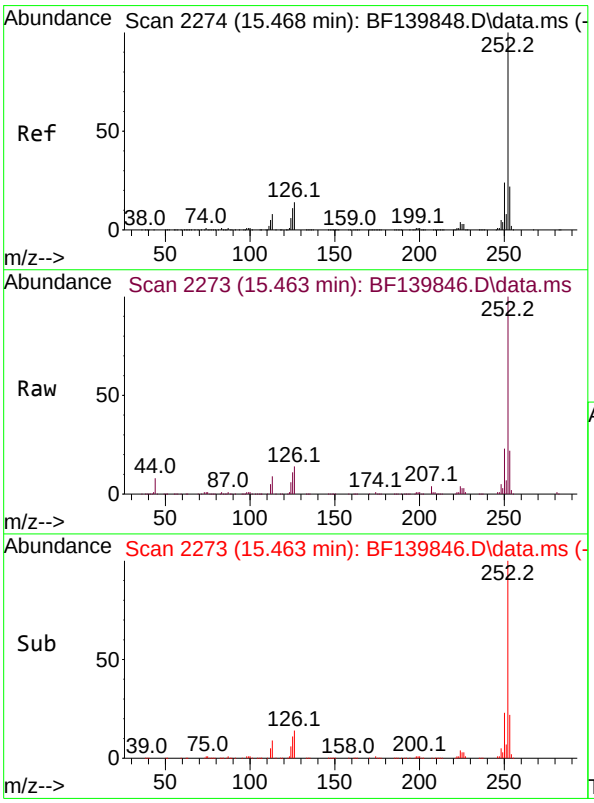
#89
Benzo(k)fluoranthene
Concen: 11.203 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 221219

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.6	26.4
125	10.2	7.9	11.9

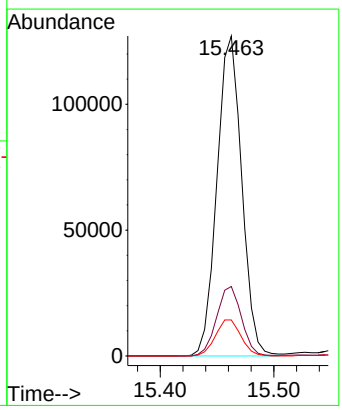


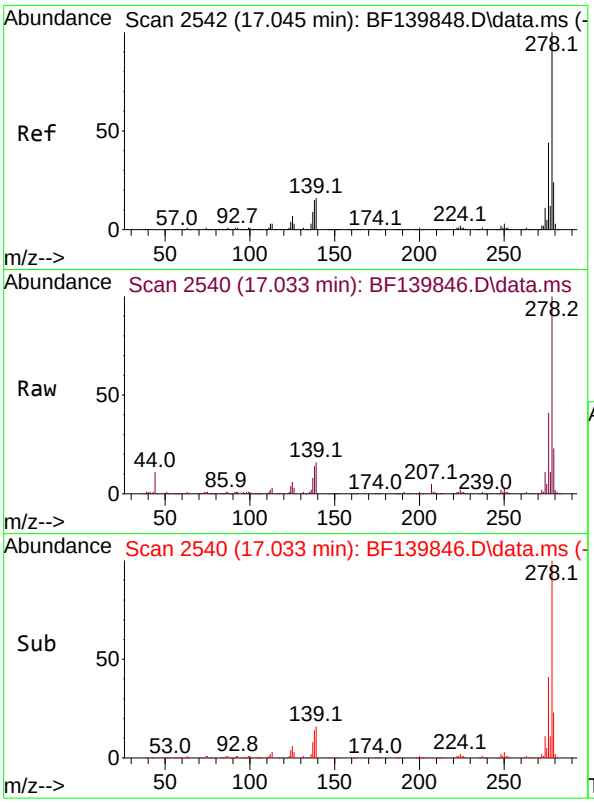


#90
Benzo(a)pyrene
Concen: 10.217 ng
RT: 15.463 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:252 Resp: 192493

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9
125	11.3	8.7	13.1



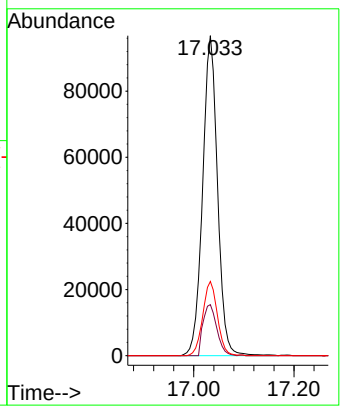


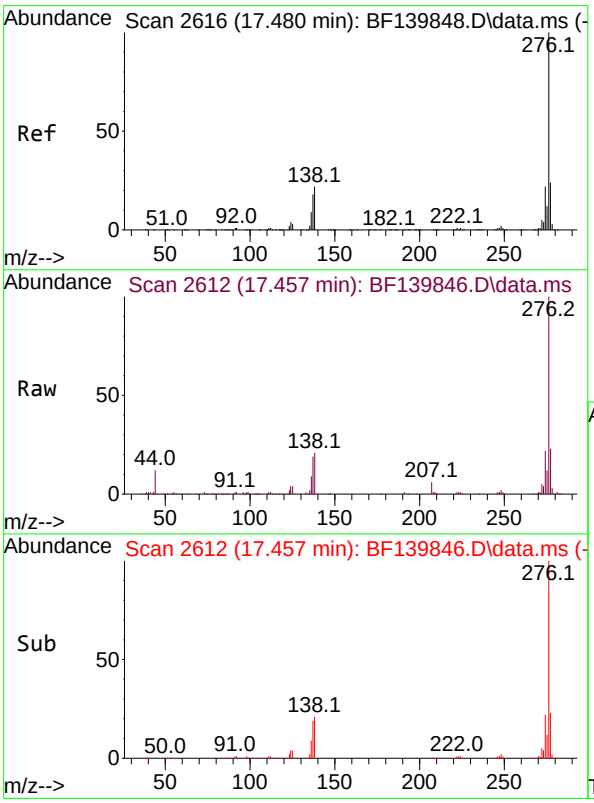
#91
Dibenzo(a,h)anthracene
Concen: 9.912 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 199946

Ion	Ratio	Lower	Upper
278	100		
139	16.0	13.1	19.7
279	23.2	19.0	28.4

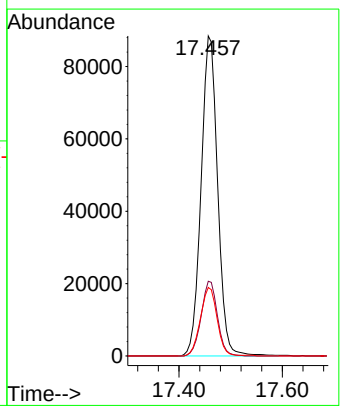




#92
Benzo(g,h,i)perylene
Concen: 9.758 ng
RT: 17.457 min Scan# 2612
Delta R.T. -0.023 min
Lab File: BF139846.D
Acq: 18 Oct 2024 11:23

Tgt Ion:276 Resp: 196609

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.6
138	21.4	17.4	26.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139847.D
Acq On : 18 Oct 2024 11:52
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Oct 18 14:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	192582	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	735124	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	413023	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	724973	20.000	ng	0.00
76) Chrysene-d12	14.051	240	402251	20.000	ng	0.00
86) Perylene-d12	15.527	264	371811	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	512648	41.673	ng	0.00
7) Phenol-d6	6.504	99	658086	41.304	ng	0.00
23) Nitrobenzene-d5	7.451	82	546550	41.206	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	159165	41.199	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1057523	42.316	ng	0.00
79) Terphenyl-d14	12.998	244	1078101	43.673	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.681	88	116188	20.257	ng	98
3) Pyridine	3.440	79	293019	20.611	ng	98
4) n-Nitrosodimethylamine	3.381	42	153824	20.138	ng	99
6) Aniline	6.551	93	311561	20.982	ng	99
8) 2-Chlorophenol	6.669	128	261502	20.794	ng	98
9) Benzaldehyde	6.440	77	200586	22.379	ng	98
10) Phenol	6.516	94	338933	20.269	ng	98
11) bis(2-Chloroethyl)ether	6.622	93	261690	20.612	ng	99
12) 1,3-Dichlorobenzene	6.828	146	297432	20.603	ng	99
13) 1,4-Dichlorobenzene	6.910	146	300107	20.808	ng	98
14) 1,2-Dichlorobenzene	7.063	146	284645	21.146	ng	99
15) Benzyl Alcohol	7.022	79	242106	20.715	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	453174	20.933	ng	99
17) 2-Methylphenol	7.128	107	218455	20.371	ng	99
18) Hexachloroethane	7.404	117	105775	20.566	ng	98
19) n-Nitroso-di-n-propyla...	7.293	70	197390	20.427	ng	97
20) 3+4-Methylphenols	7.281	107	292795	21.346	ng	96
22) Acetophenone	7.293	105	379127	21.056	ng	99
24) Nitrobenzene	7.469	77	299625	20.604	ng	99
25) Isophorone	7.704	82	516119	20.502	ng	100
26) 2-Nitrophenol	7.787	139	110497	20.141	ng	97
27) 2,4-Dimethylphenol	7.816	122	187930	20.544	ng	98
28) bis(2-Chloroethoxy)met...	7.916	93	317497	20.816	ng	99
29) 2,4-Dichlorophenol	8.016	162	215409	20.673	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	238559	20.691	ng	100
31) Naphthalene	8.192	128	801971	21.153	ng	99
32) Benzoic acid	7.892	122	152028	19.054	ng	99
33) 4-Chloroaniline	8.239	127	270435	20.919	ng	98
34) Hexachlorobutadiene	8.310	225	149527	20.641	ng	100
35) Caprolactam	8.587	113	67624	20.411	ng	100
36) 4-Chloro-3-methylphenol	8.704	107	238461	20.668	ng	100
37) 2-Methylnaphthalene	8.881	142	489343	21.075	ng	100
38) 1-Methylnaphthalene	8.981	142	481797	21.149	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	232025	20.823	ng	99
41) Hexachlorocyclopentadiene	9.039	237	81579	21.041	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	165112	20.930	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139847.D
Acq On : 18 Oct 2024 11:52
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Oct 18 14:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	164517	20.213	ng		98
46) 1,1'-Biphenyl	9.345	154	612342	21.297	ng		99
47) 2-Chloronaphthalene	9.375	162	480916	20.767	ng		99
48) 2-Nitroaniline	9.463	65	146002	20.614	ng		98
49) Acenaphthylene	9.786	152	709161	21.182	ng		99
50) Dimethylphthalate	9.645	163	529745	20.592	ng		100
51) 2,6-Dinitrotoluene	9.704	165	114726	20.596	ng		98
52) Acenaphthene	9.963	154	449770	20.768	ng		99
53) 3-Nitroaniline	9.869	138	122186	21.271	ng		99
54) 2,4-Dinitrophenol	9.975	184	31801	19.148	ng	#	67
55) Dibenzofuran	10.134	168	652249	20.991	ng		98
56) 4-Nitrophenol	10.010	139	93060	21.057	ng		95
57) 2,4-Dinitrotoluene	10.104	165	139381	20.348	ng		98
58) Fluorene	10.475	166	496012	20.958	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	134842	21.133	ng		98
60) Diethylphthalate	10.345	149	523458	20.723	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	254950	21.331	ng		97
62) 4-Nitroaniline	10.481	138	111683	20.586	ng		98
63) Azobenzene	10.628	77	559837	20.906	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	52180	17.645	ng		100
66) n-Nitrosodiphenylamine	10.581	169	449925	20.736	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	153196	20.512	ng		98
68) Hexachlorobenzene	11.022	284	172091	20.488	ng		99
69) Atrazine	11.104	200	113089	19.240	ng		99
70) Pentachlorophenol	11.210	266	107595	21.106	ng		99
71) Phenanthrene	11.439	178	720363	21.036	ng		100
72) Anthracene	11.486	178	704417	21.083	ng		99
73) Carbazole	11.639	167	669328	21.540	ng		100
74) Di-n-butylphthalate	11.975	149	769779	21.442	ng		99
75) Fluoranthene	12.622	202	751337	21.703	ng		99
77) Benzidine	12.745	184	118035	18.042	ng		100
78) Pyrene	12.851	202	764077	21.700	ng		100
80) Butylbenzylphthalate	13.474	149	215683	20.432	ng		98
81) Benzo(a)anthracene	14.039	228	534525	20.413	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	156770	20.534	ng		100
83) Chrysene	14.074	228	496447	20.678	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	232200	19.606	ng		99
85) Di-n-octyl phthalate	14.651	149	373952	17.359	ng		100
87) Indeno(1,2,3-cd)pyrene	17.015	276	485858	20.312	ng		100
88) Benzo(b)fluoranthene	15.092	252	490566	21.659	ng		100
89) Benzo(k)fluoranthene	15.121	252	368835	18.883	ng		99
90) Benzo(a)pyrene	15.463	252	378617	20.316	ng		100
91) Dibenzo(a,h)anthracene	17.039	278	410285	20.561	ng		99
92) Benzo(g,h,i)perylene	17.468	276	405140	20.326	ng		99

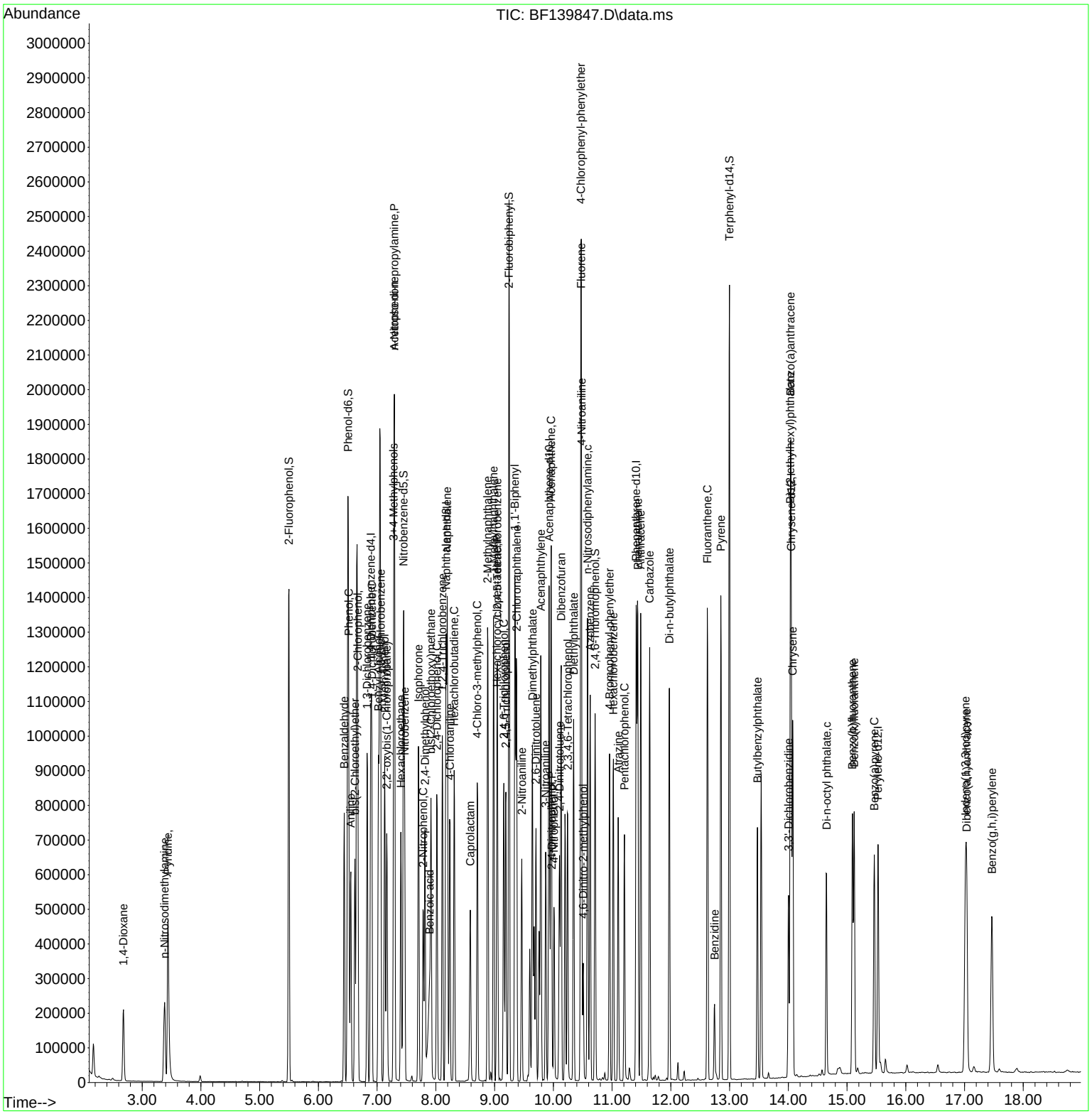
(#) = qualifier out of range (m) = manual integration (+) = signals summed

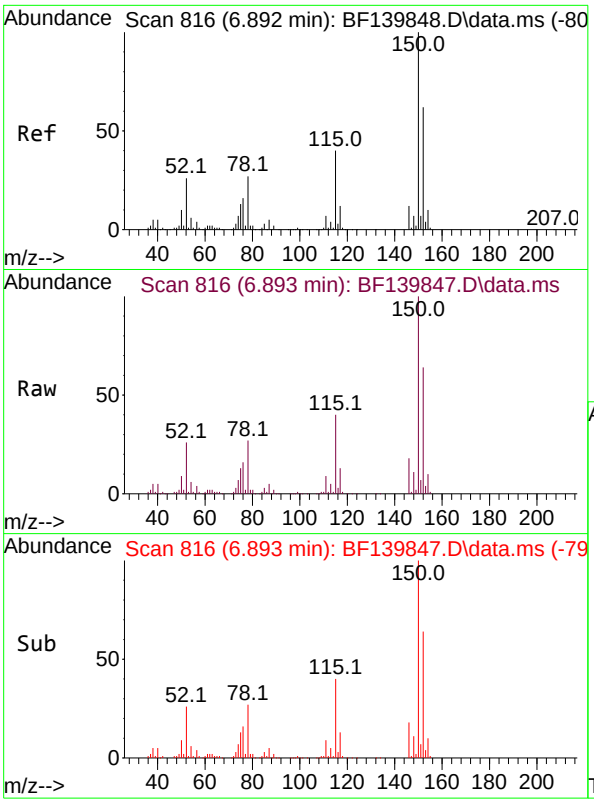
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139847.D
Acq On : 18 Oct 2024 11:52
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Oct 18 14:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



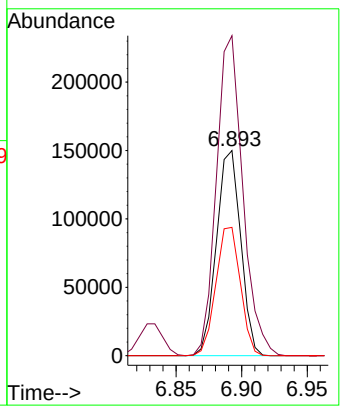


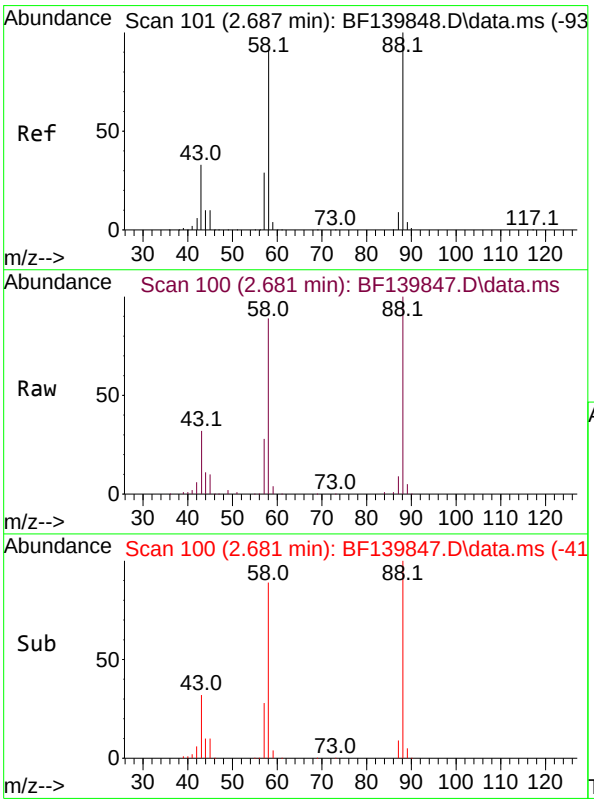
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 192582

Ion	Ratio	Lower	Upper
152	100		
150	156.0	130.2	195.2
115	62.6	51.4	77.2

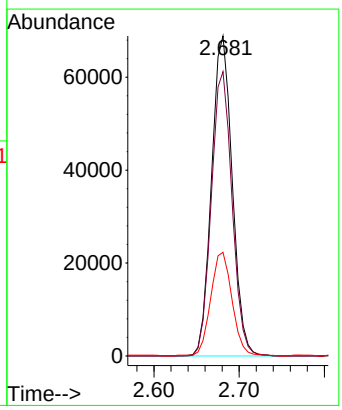


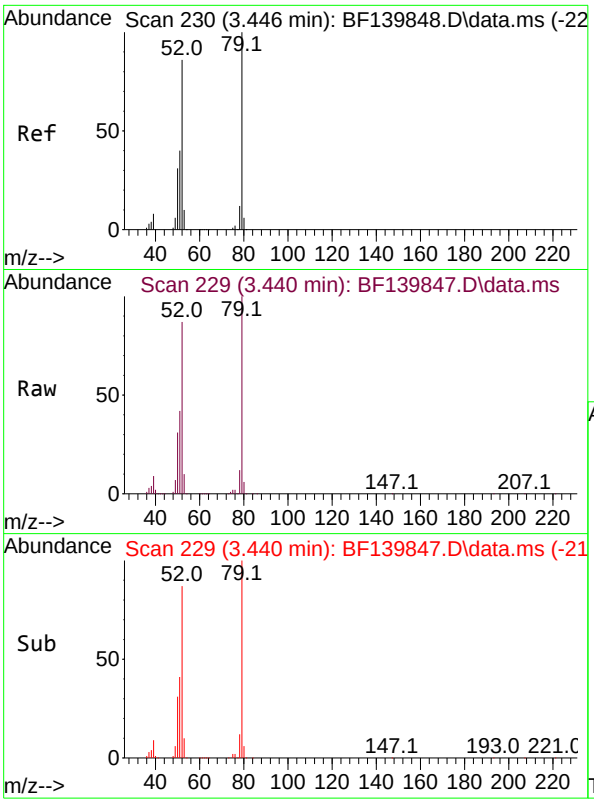


#2
1,4-Dioxane
Concen: 20.257 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion: 88 Resp: 116188

Ion	Ratio	Lower	Upper
88	100		
58	88.9	73.3	109.9
43	33.6	27.1	40.7



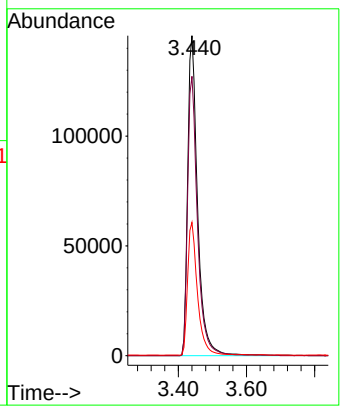


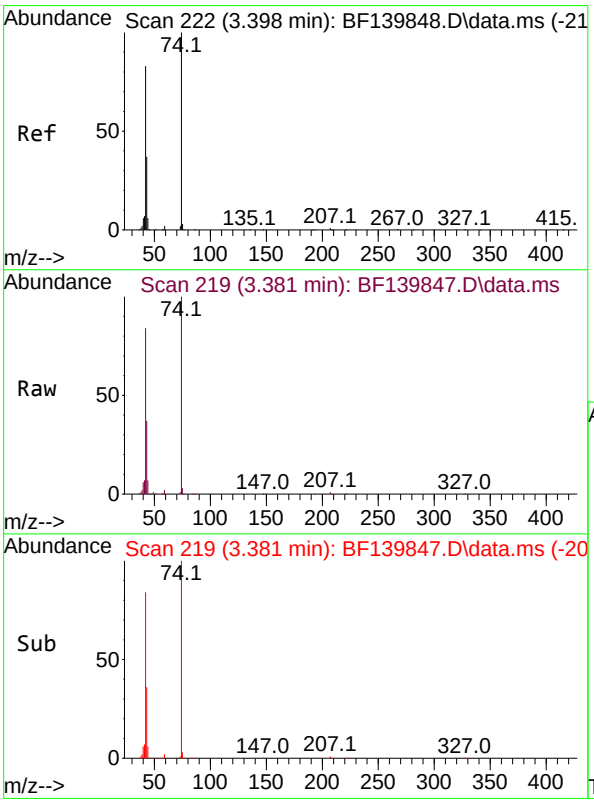
#3
Pyridine
Concen: 20.611 ng
RT: 3.440 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 293019

Ion	Ratio	Lower	Upper
79	100		
52	87.3	68.5	102.7
51	41.6	32.3	48.5

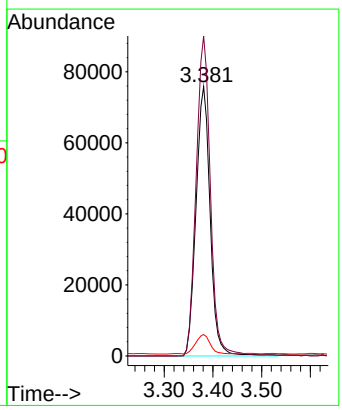


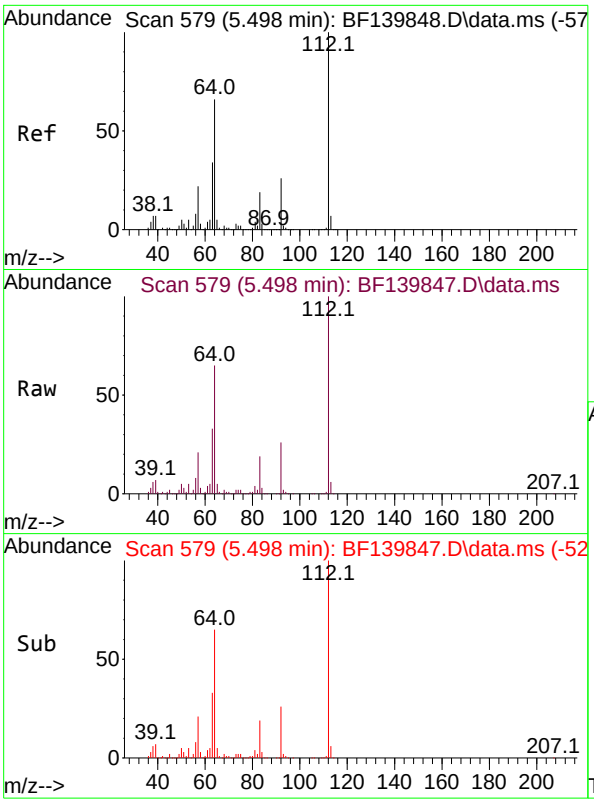


#4
n-Nitrosodimethylamine
Concen: 20.138 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.017 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion: 42 Resp: 153824

Ion	Ratio	Lower	Upper
42	100		
74	118.8	96.2	144.4
44	8.0	6.2	9.2



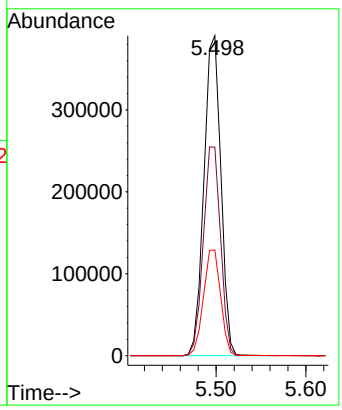


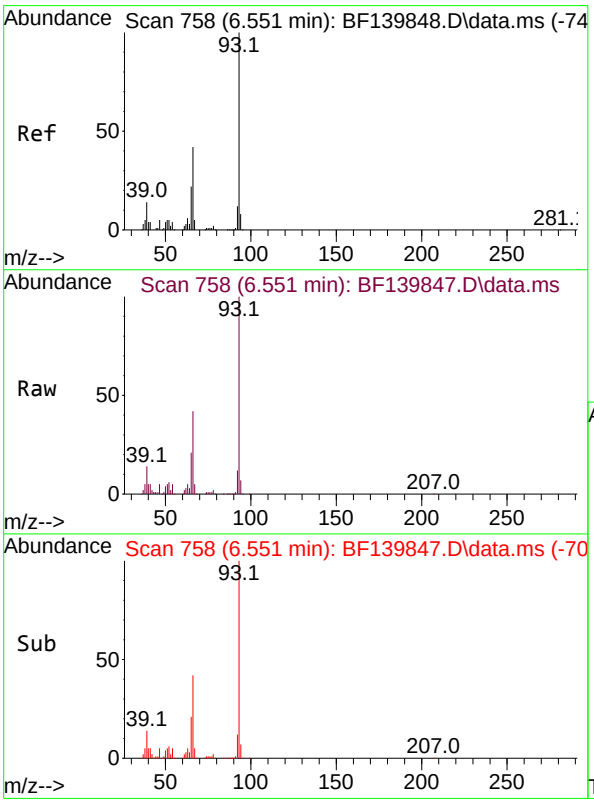
#5
2-Fluorophenol
Concen: 41.673 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 512648

Ion	Ratio	Lower	Upper
112	100		
64	65.1	53.0	79.6
63	33.1	27.0	40.4

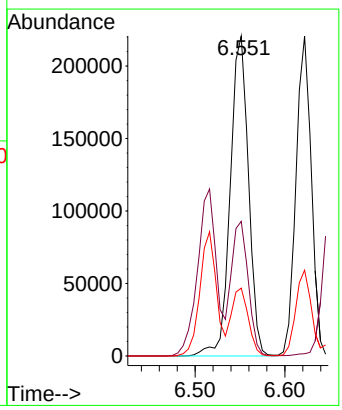


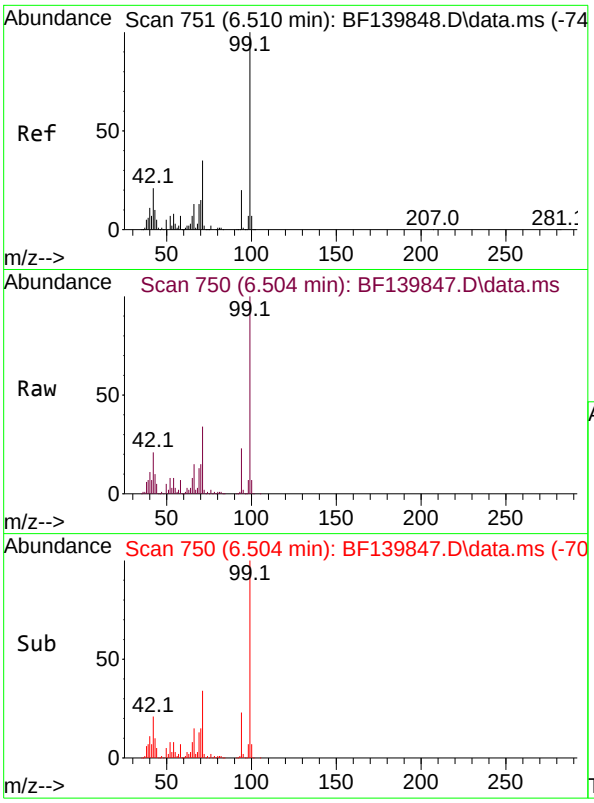


#6
Aniline
Concen: 20.982 ng
RT: 6.551 min Scan# 758
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion: 93 Resp: 311561

Ion	Ratio	Lower	Upper
93	100		
66	42.0	34.0	51.0
65	21.2	17.4	26.0



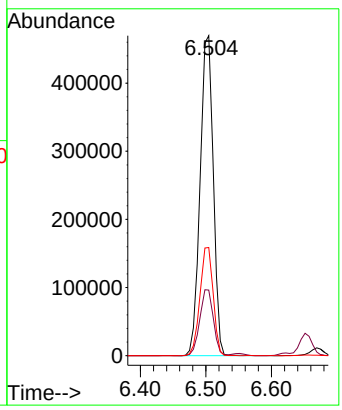


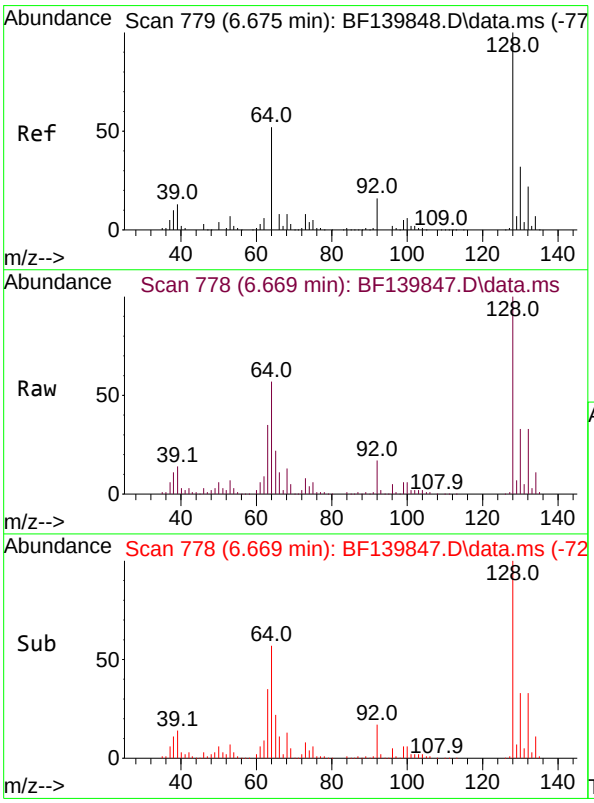
#7
Phenol-d6
Concen: 41.304 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 658086

Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.7	25.1
71	33.8	27.7	41.5

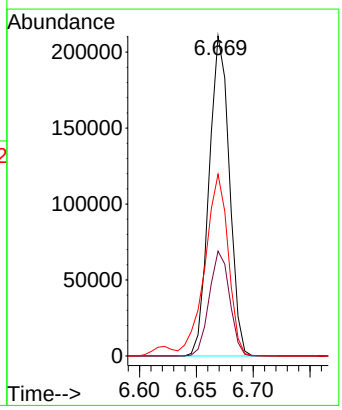


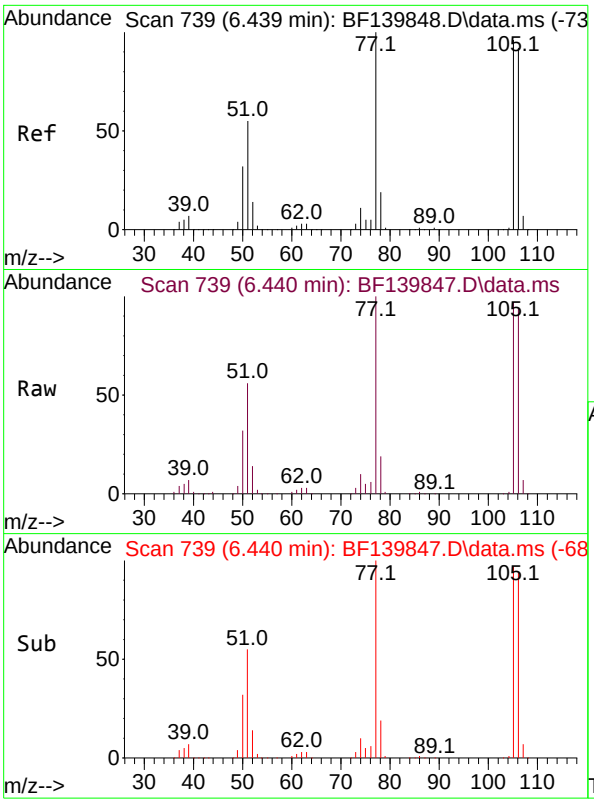


#8
2-Chlorophenol
Concen: 20.794 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:128 Resp: 261502

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.3	52.3
64	56.8	34.6	74.6



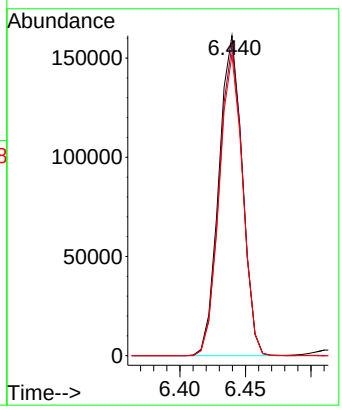


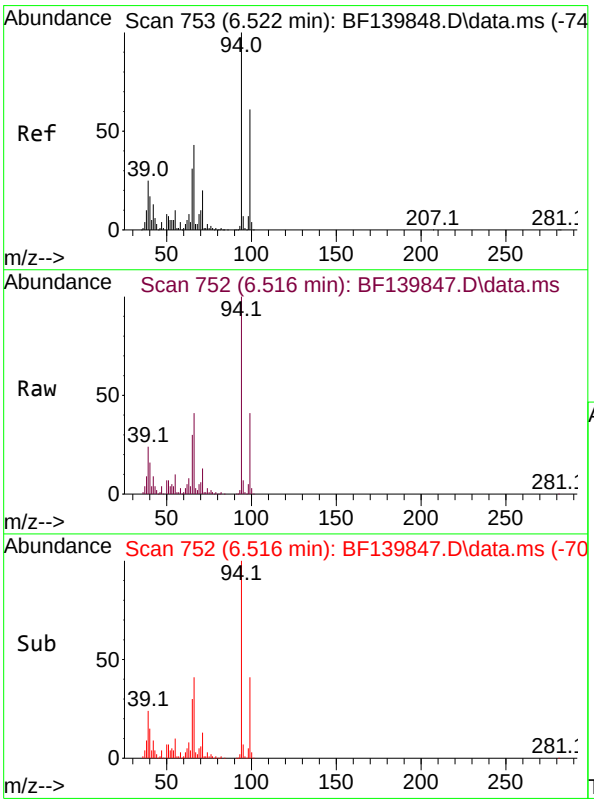
#9
Benzaldehyde
Concen: 22.379 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 200586

Ion	Ratio	Lower	Upper
77	100		
105	97.1	75.5	115.5
106	94.0	71.7	111.7

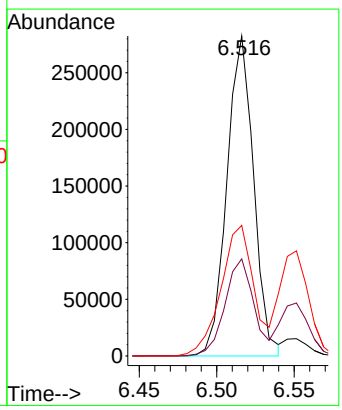


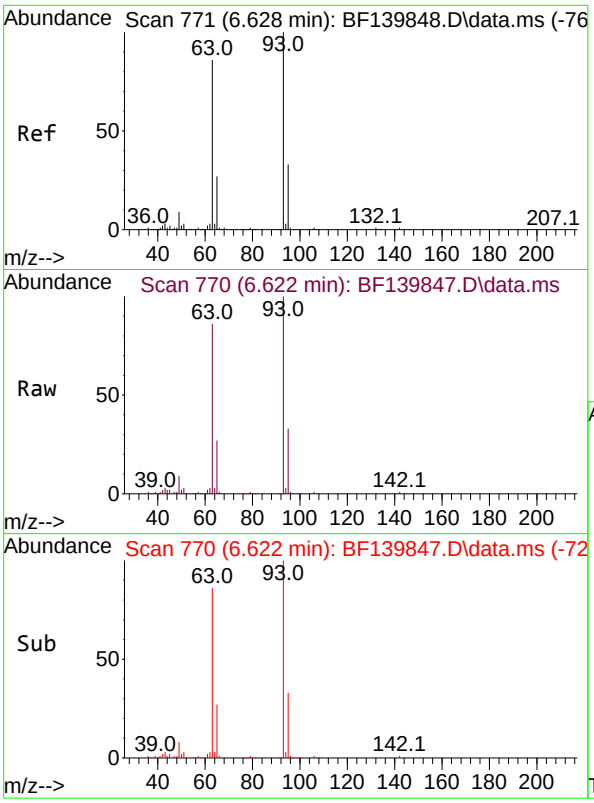


#10
Phenol
Concen: 20.269 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion: 94 Resp: 338933

Ion	Ratio	Lower	Upper
94	100		
65	30.3	11.1	51.1
66	40.8	22.7	62.7



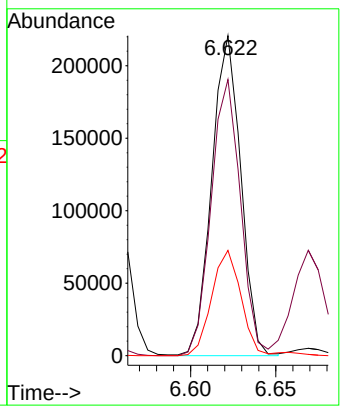


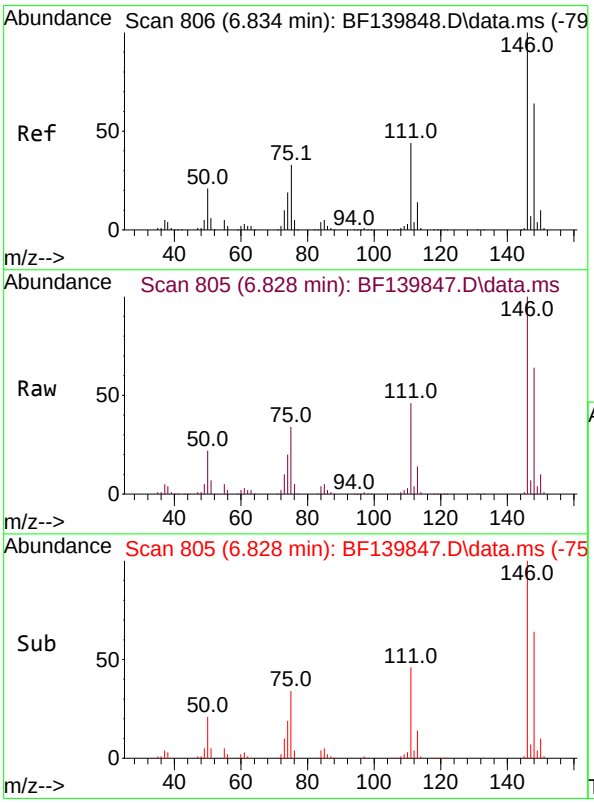
#11
bis(2-Chloroethyl)ether
Concen: 20.612 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 261690

Ion	Ratio	Lower	Upper
93	100		
63	86.3	65.0	105.0
95	32.9	12.4	52.4

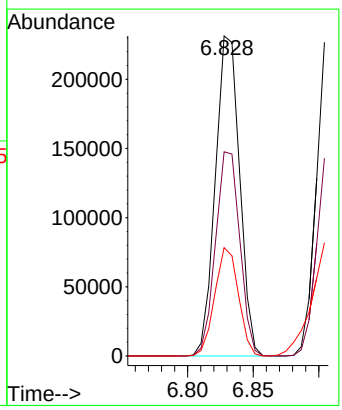


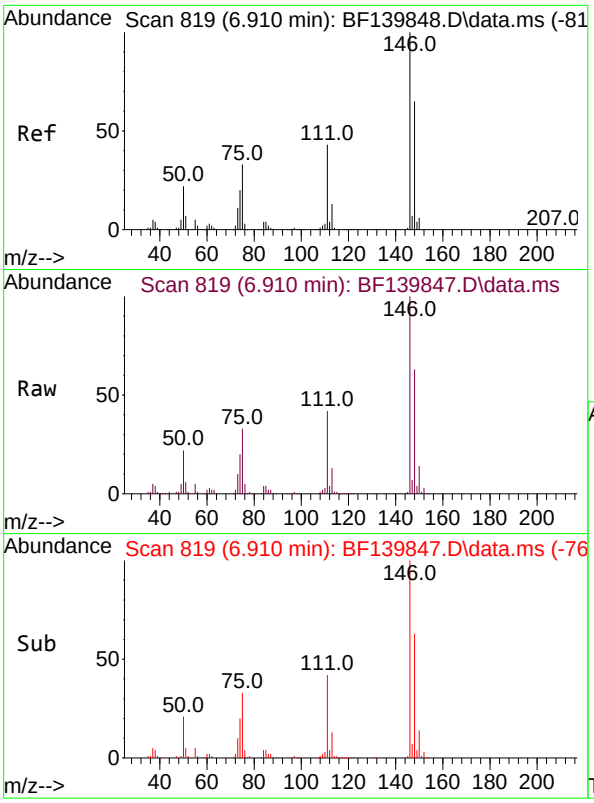


#12
1,3-Dichlorobenzene
Concen: 20.603 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:146 Resp: 297432

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.4
75	33.9	26.4	39.6



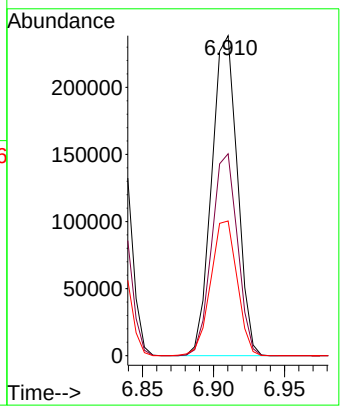


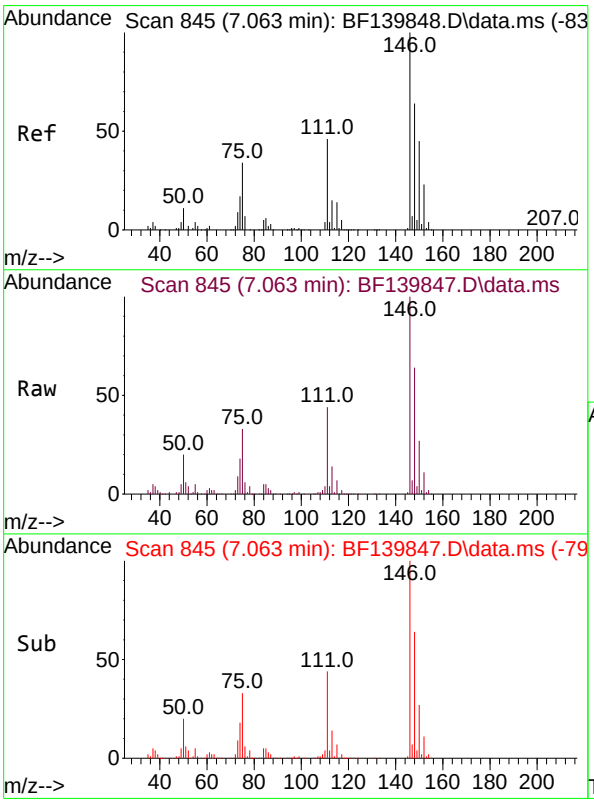
#13
1,4-Dichlorobenzene
Concen: 20.808 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 300107

Ion	Ratio	Lower	Upper
146	100		
148	63.1	51.8	77.8
111	42.1	34.6	51.8

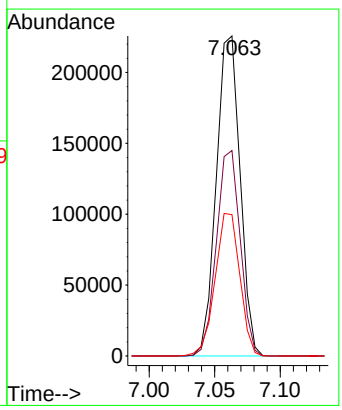


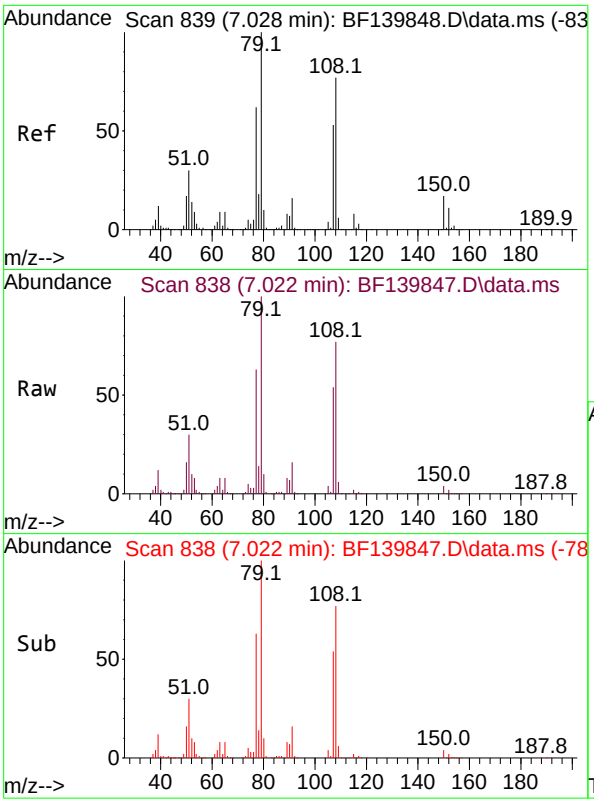


#14
1,2-Dichlorobenzene
Concen: 21.146 ng
RT: 7.063 min Scan# 845
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:146 Resp: 284645

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.4	77.2
111	44.2	36.7	55.1



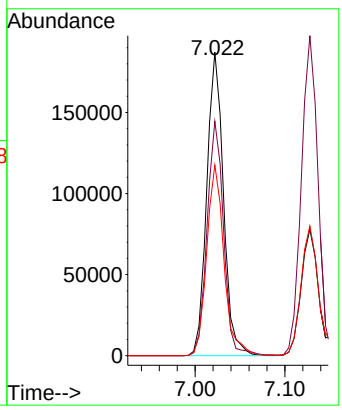


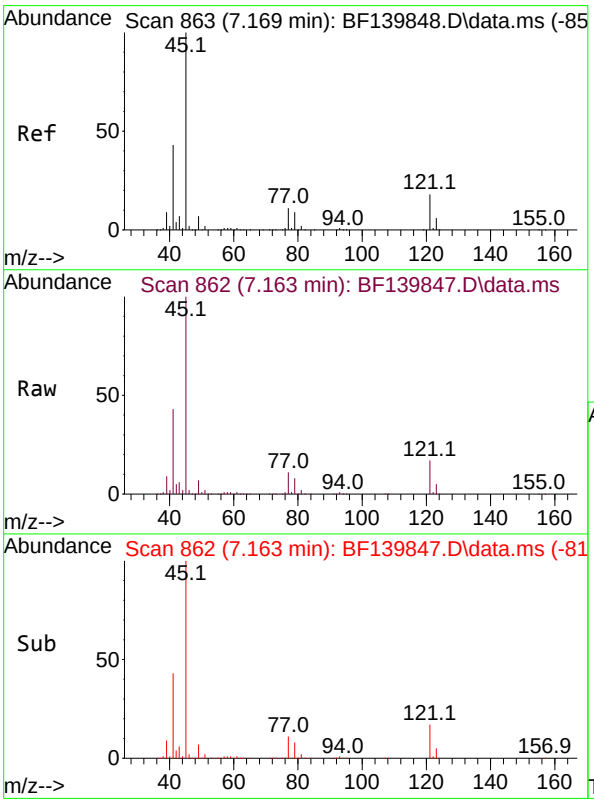
#15
Benzyl Alcohol
Concen: 20.715 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 242106

Ion	Ratio	Lower	Upper
79	100		
108	77.2	61.4	92.0
77	62.8	49.9	74.9

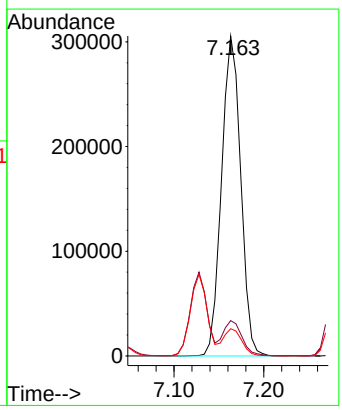


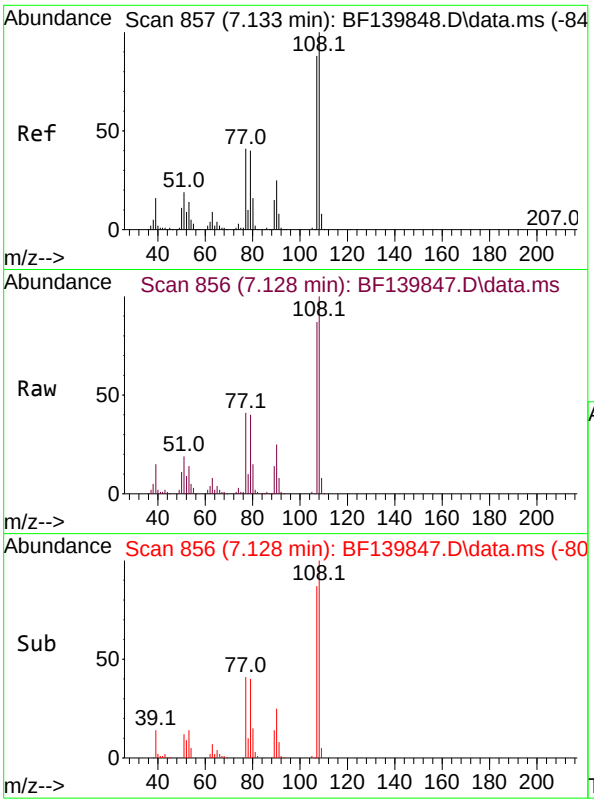


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.933 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion: 45 Resp: 453174

Ion	Ratio	Lower	Upper
45	100		
77	11.1	0.0	31.5
79	8.5	0.0	29.1



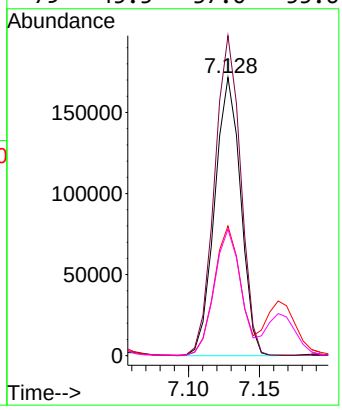


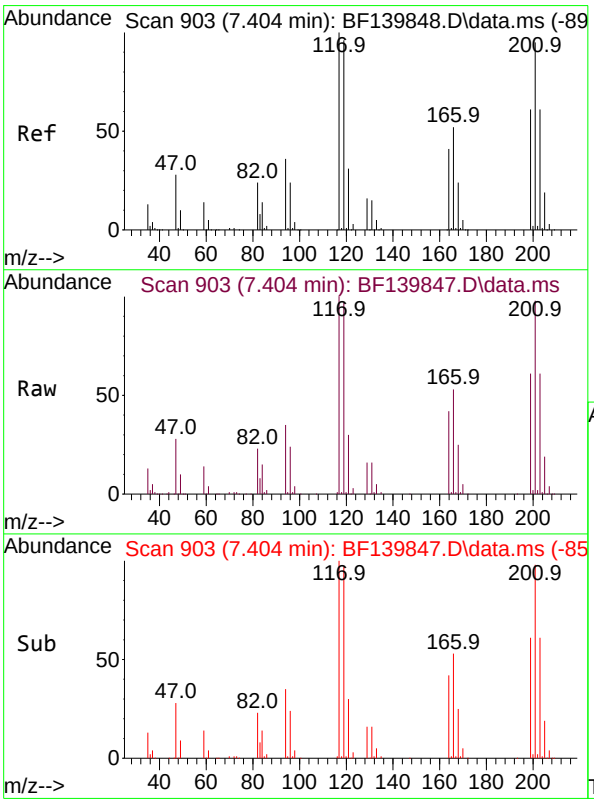
#17
2-Methylphenol
Concen: 20.371 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 218455

Ion	Ratio	Lower	Upper
107	100		
108	115.0	91.3	136.9
77	46.6	37.1	55.7
79	45.5	37.0	55.6

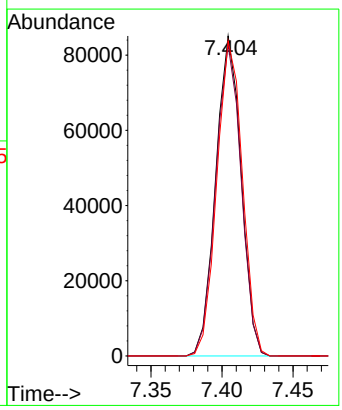


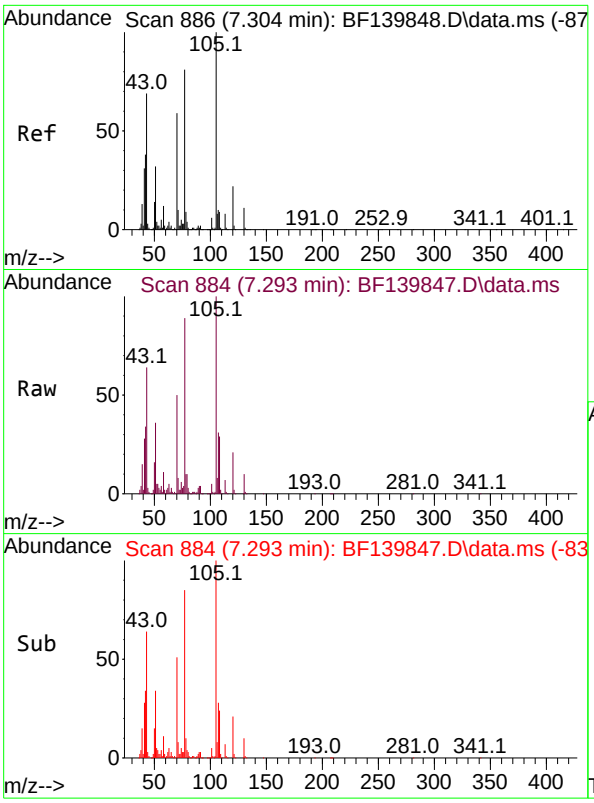


#18
Hexachloroethane
Concen: 20.566 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:117 Resp: 105775

Ion	Ratio	Lower	Upper
117	100		
119	97.3	77.0	115.4
201	98.4	76.2	114.4



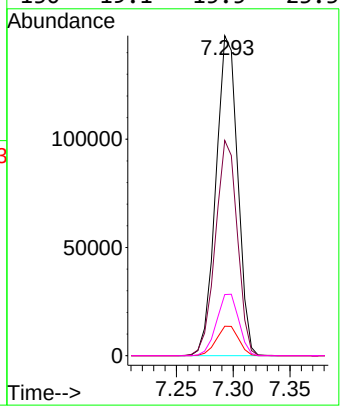


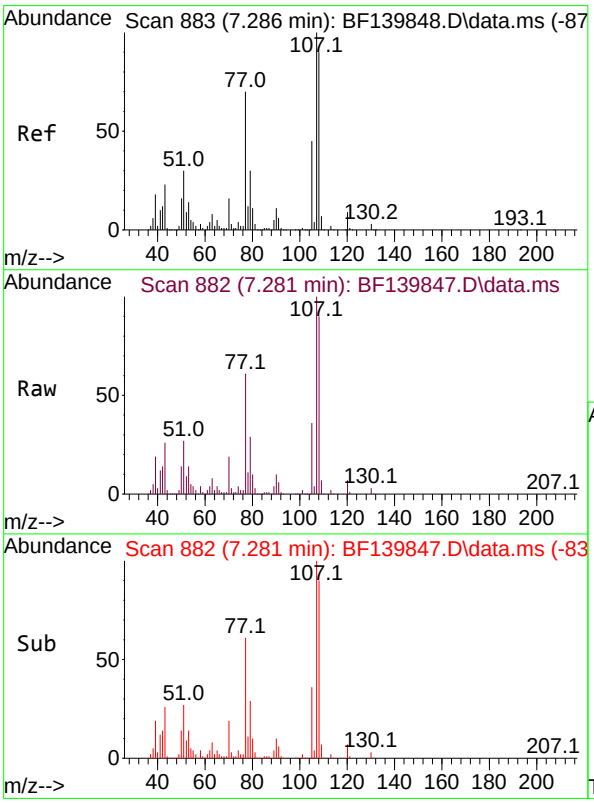
#19
n-Nitroso-di-n-propylamine
Concen: 20.427 ng
RT: 7.293 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 197390

Ion	Ratio	Lower	Upper
70	100		
42	67.2	51.5	77.3
101	9.2	7.5	11.3
130	19.1	15.5	23.3

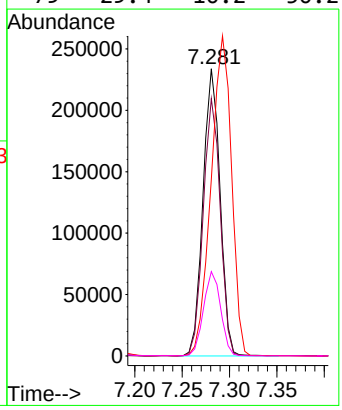


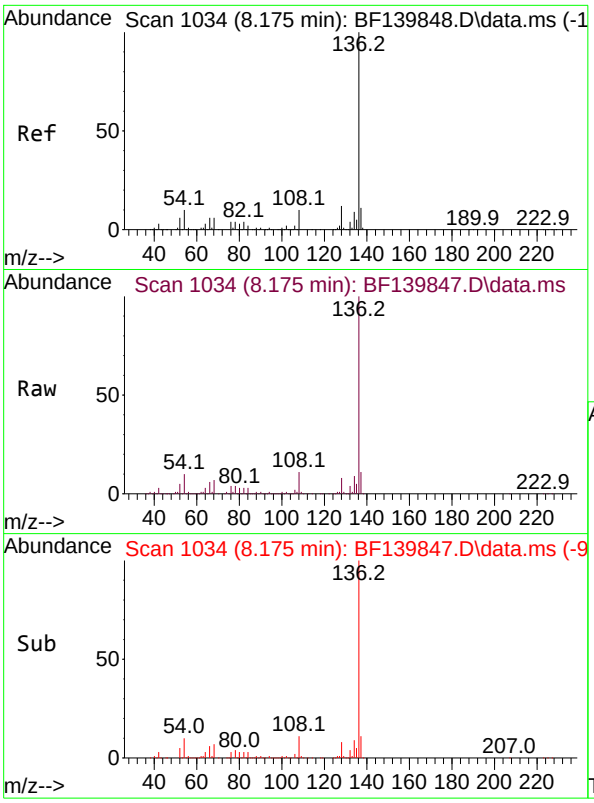


#20
3+4-Methylphenols
Concen: 21.346 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:107 Resp: 292795

Ion	Ratio	Lower	Upper
107	100		
108	89.6	69.8	109.8
77	61.4	50.5	90.5
79	29.4	10.2	50.2



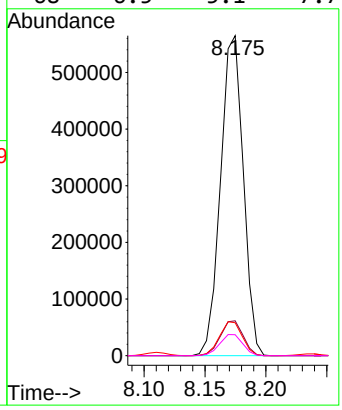


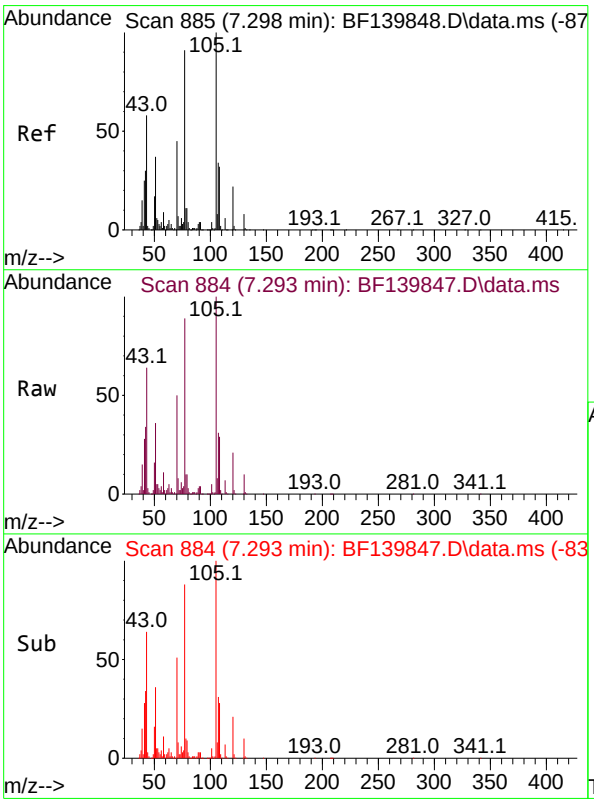
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 735124

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.3	8.4	12.6
68	6.5	5.1	7.7

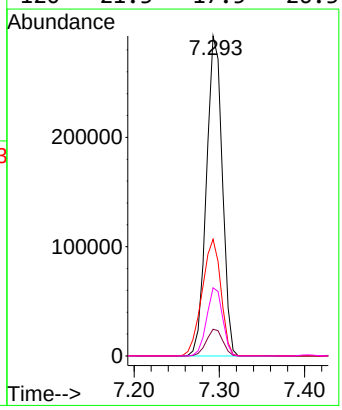


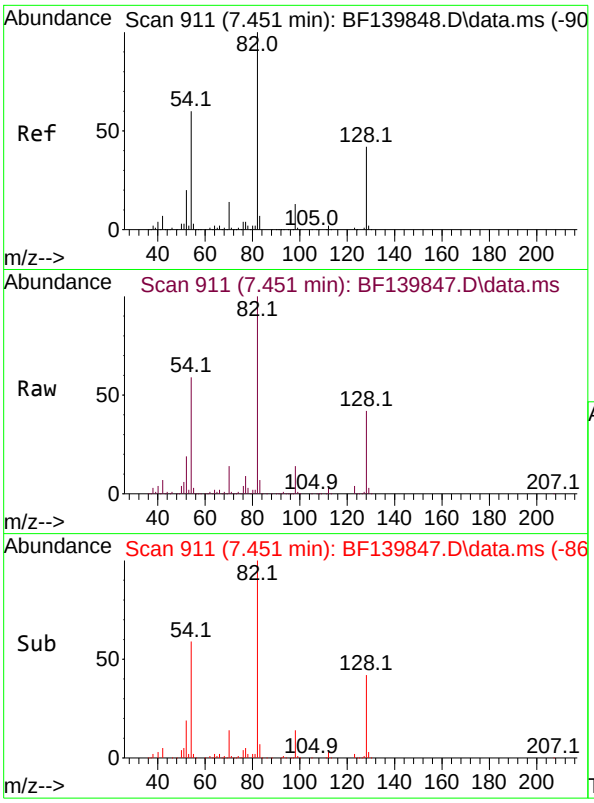


#22
Acetophenone
Concen: 21.056 ng
RT: 7.293 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:105 Resp: 379127

Ion	Ratio	Lower	Upper
105	100		
71	8.3	5.9	8.9
51	36.5	29.4	44.2
120	21.3	17.5	26.3



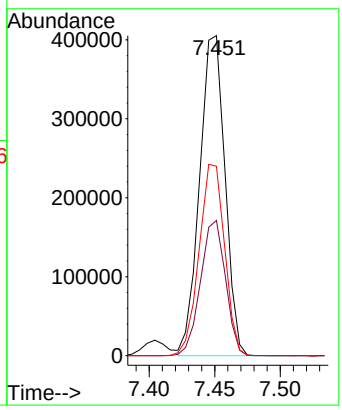


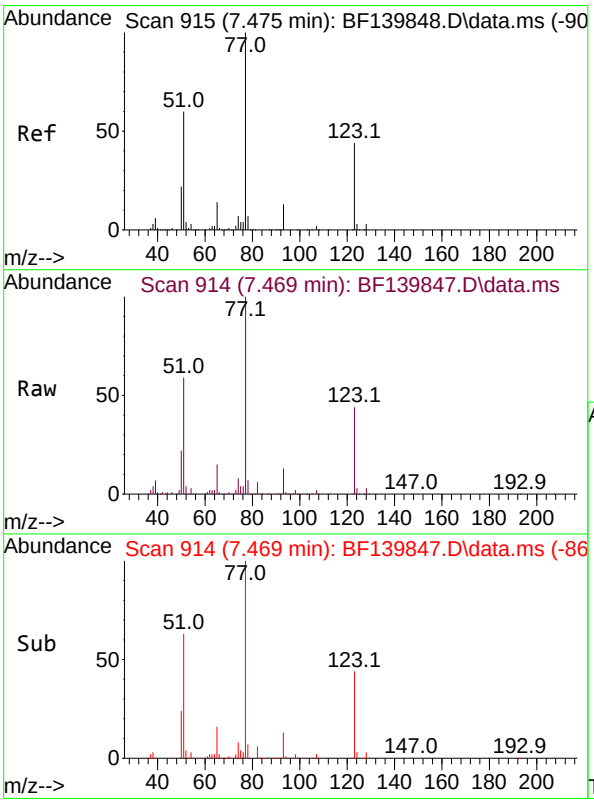
#23
Nitrobenzene-d5
Concen: 41.206 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 546550

Ion	Ratio	Lower	Upper
82	100		
128	42.3	33.4	50.0
54	59.2	47.8	71.8

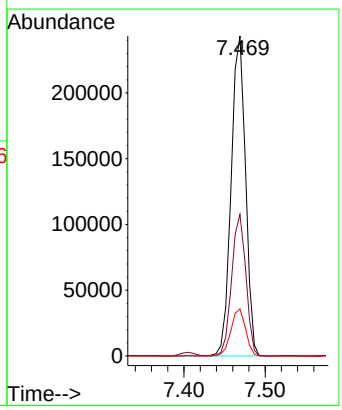


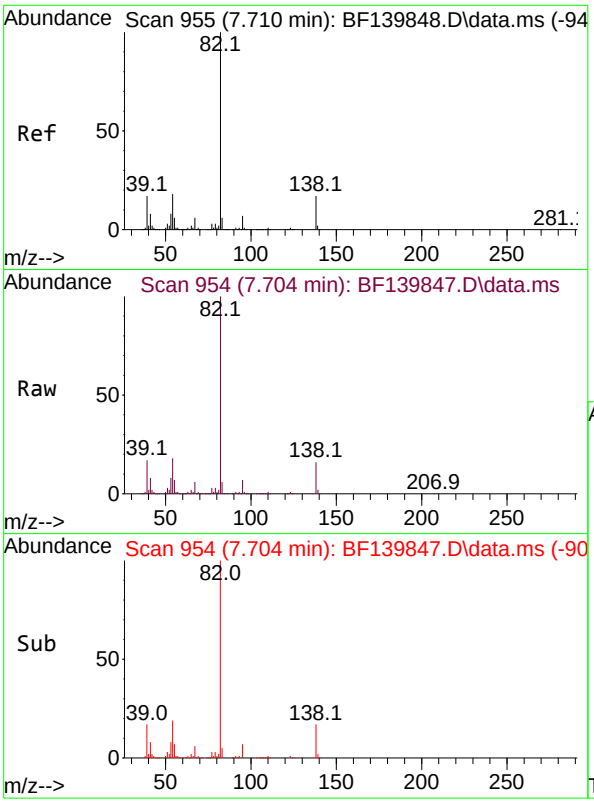


#24
Nitrobenzene
Concen: 20.604 ng
RT: 7.469 min Scan# 914
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion: 77 Resp: 299625

Ion	Ratio	Lower	Upper
77	100		
123	44.2	35.7	53.5
65	14.7	11.5	17.3



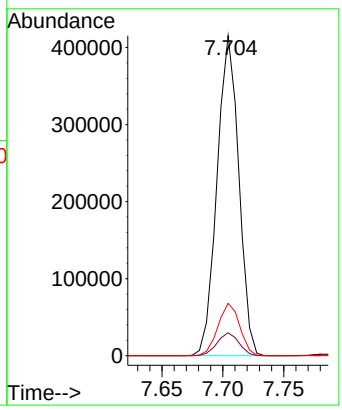


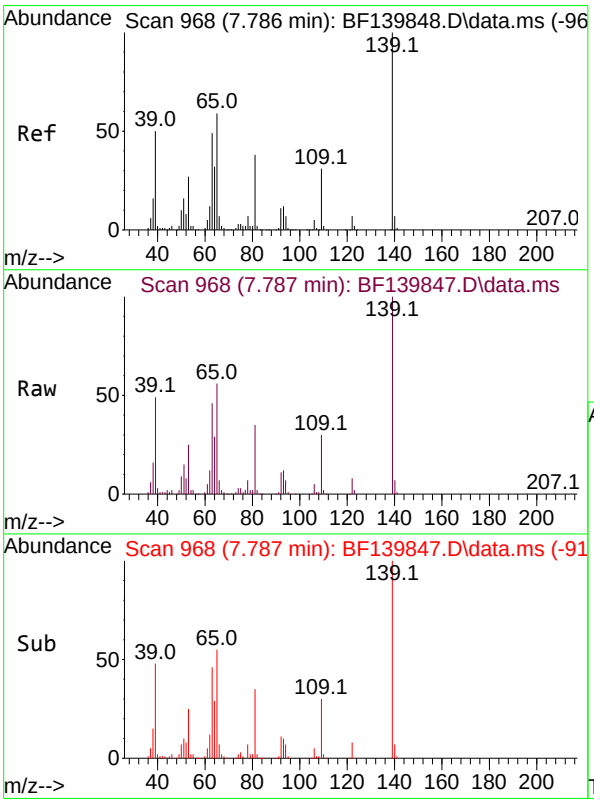
#25
Isophorone
Concen: 20.502 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 516119

Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.5	8.3
138	16.3	13.2	19.8

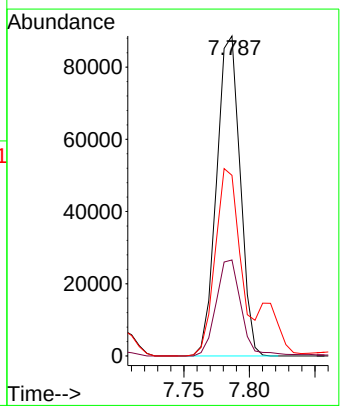


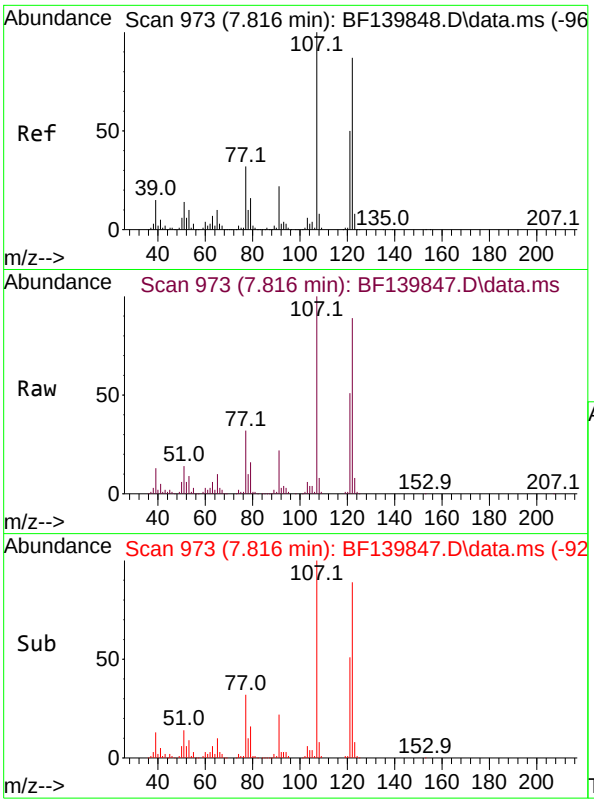


#26
2-Nitrophenol
Concen: 20.141 ng
RT: 7.787 min Scan# 968
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:139 Resp: 110497

Ion	Ratio	Lower	Upper
139	100		
109	30.0	25.1	37.7
65	56.5	47.5	71.3



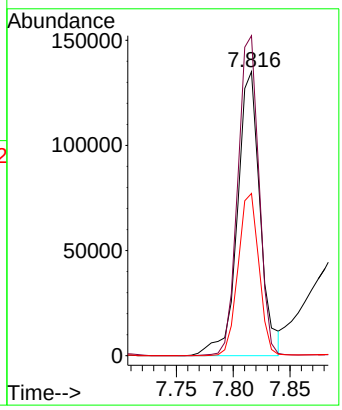


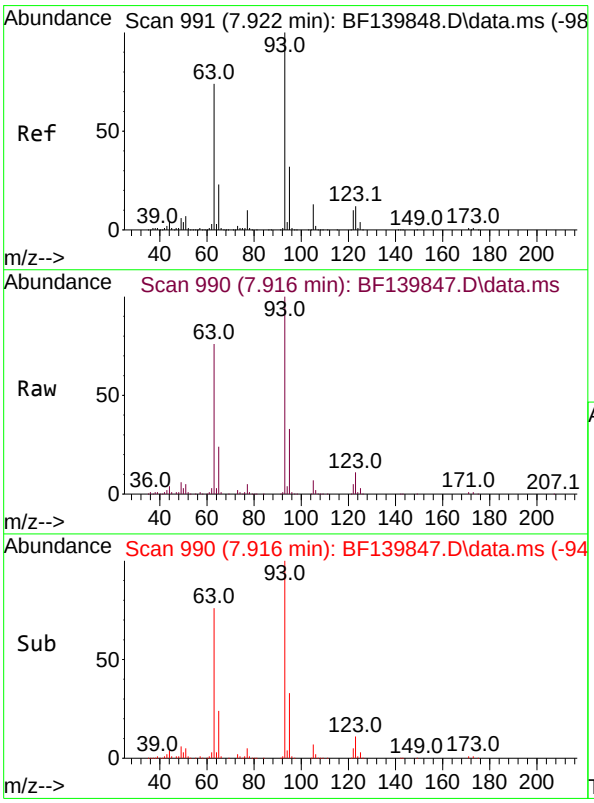
#27
2,4-Dimethylphenol
Concen: 20.544 ng
RT: 7.816 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 187930

Ion	Ratio	Lower	Upper
122	100		
107	112.6	91.9	137.9
121	57.1	46.2	69.4

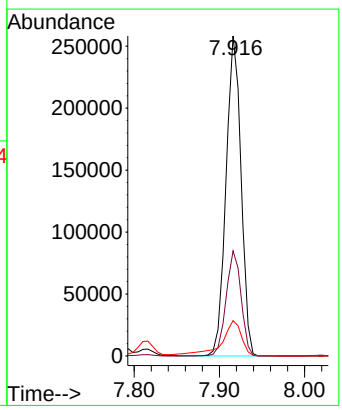


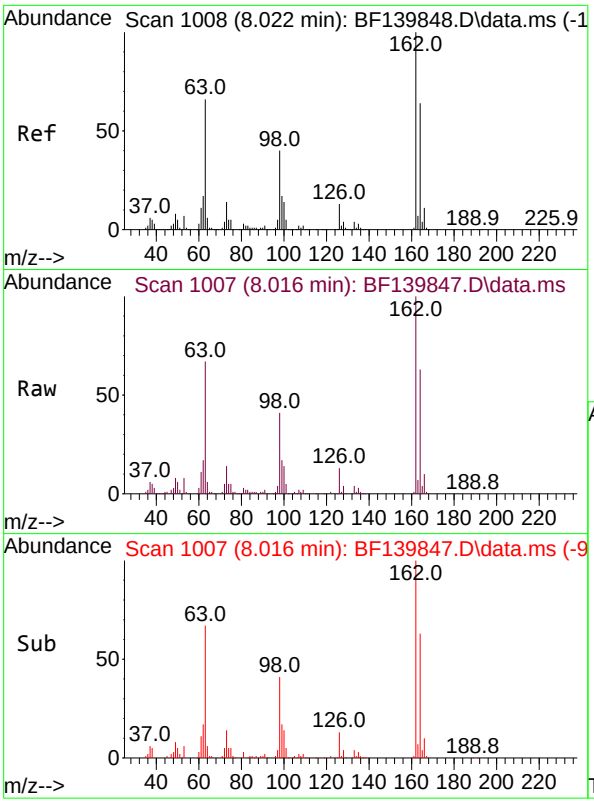


#28
bis(2-Chloroethoxy)methane
Concen: 20.816 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion: 93 Resp: 317497

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.0	39.0
123	11.1	9.8	14.8



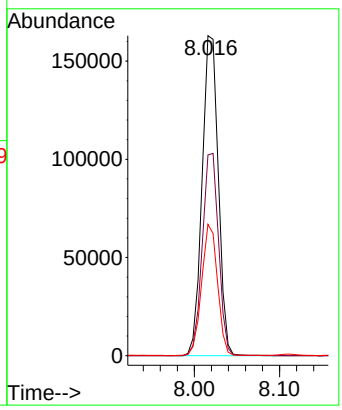


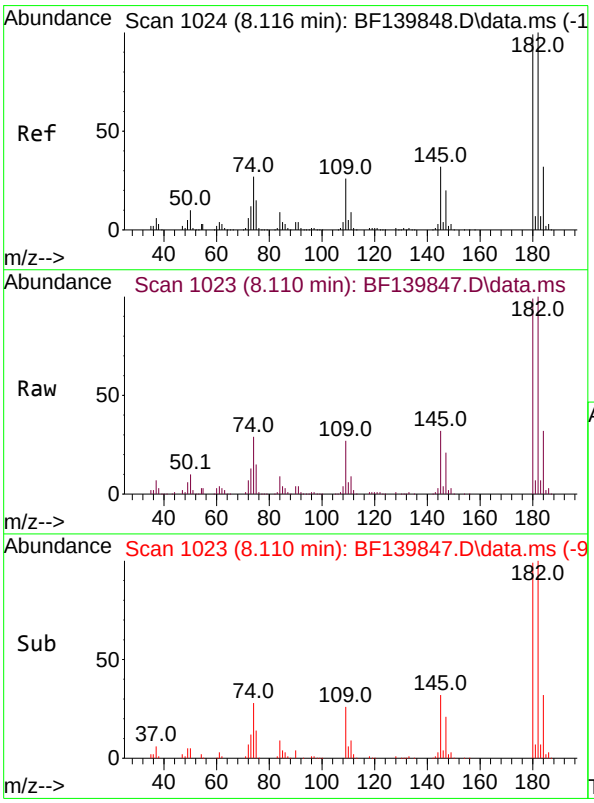
#29
2,4-Dichlorophenol
Concen: 20.673 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 215409

Ion	Ratio	Lower	Upper
162	100		
164	62.7	43.9	83.9
98	41.1	19.9	59.9

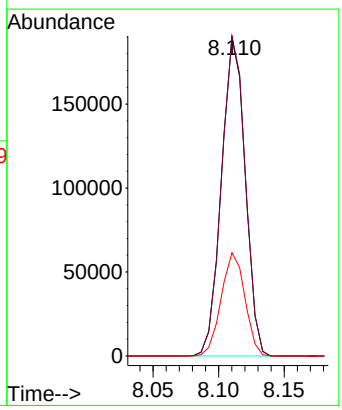


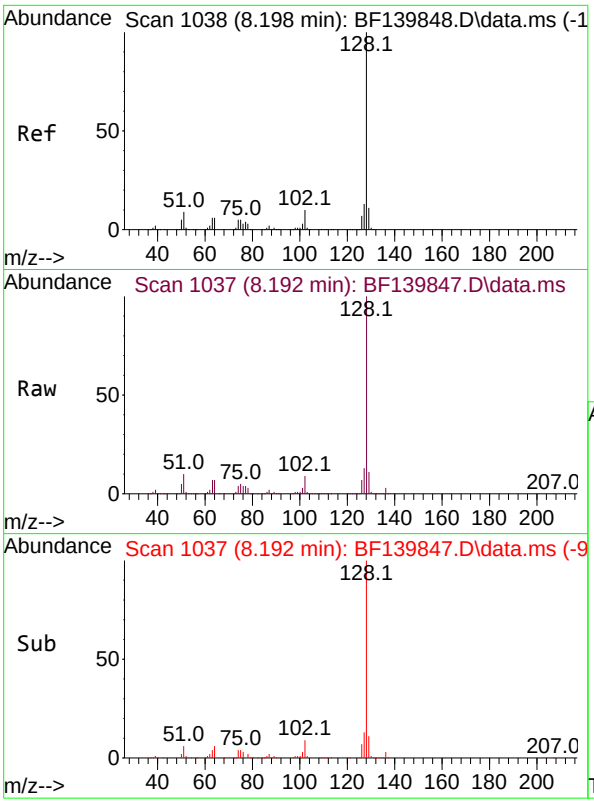


#30
1,2,4-Trichlorobenzene
Concen: 20.691 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:180 Resp: 238559

Ion	Ratio	Lower	Upper
180	100		
182	100.6	80.5	120.7
145	32.5	25.4	38.0



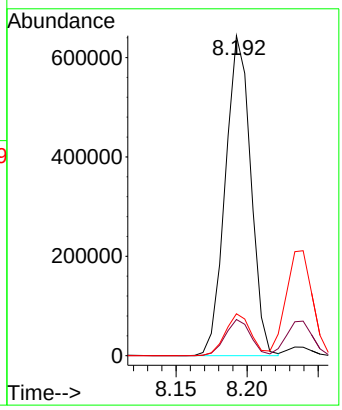


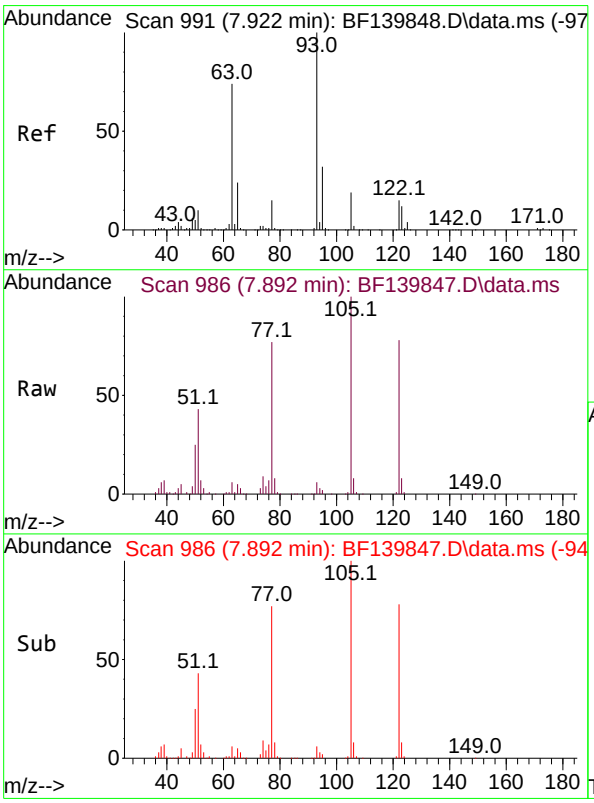
#31
Naphthalene
Concen: 21.153 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 801971

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.1	10.6	16.0

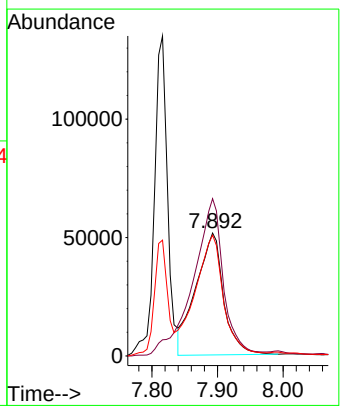


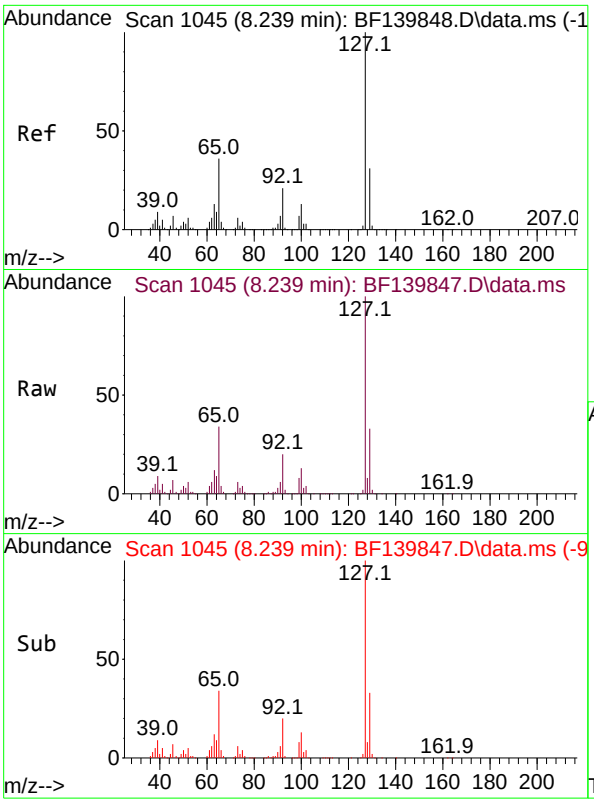


#32
Benzoic acid
Concen: 19.054 ng
RT: 7.892 min Scan# 986
Delta R.T. -0.030 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:122 Resp: 152028

Ion	Ratio	Lower	Upper
122	100		
105	127.9	107.6	147.6
77	98.2	80.2	120.2



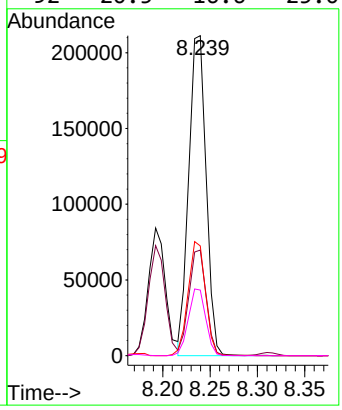


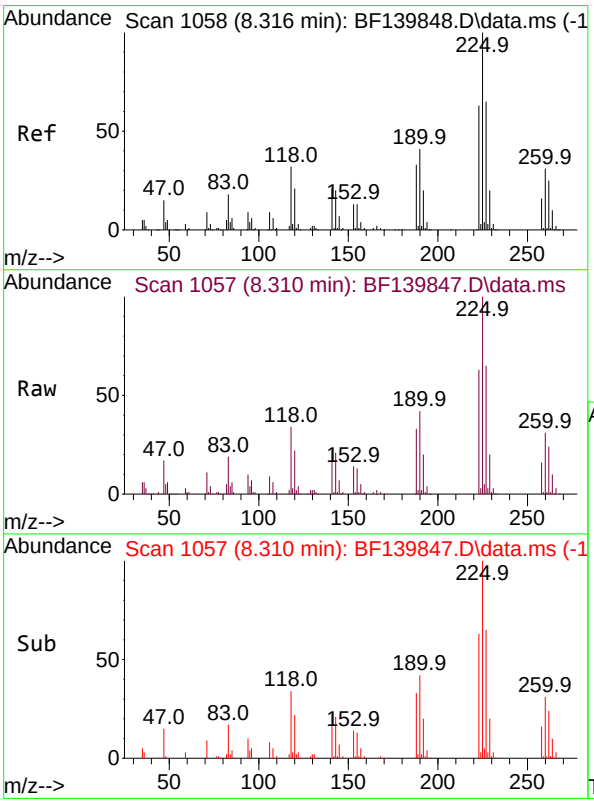
#33
4-Chloroaniline
Concen: 20.919 ng
RT: 8.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 270435

Ion	Ratio	Lower	Upper
127	100		
129	33.0	25.4	38.2
65	34.3	28.4	42.6
92	20.5	16.6	25.0

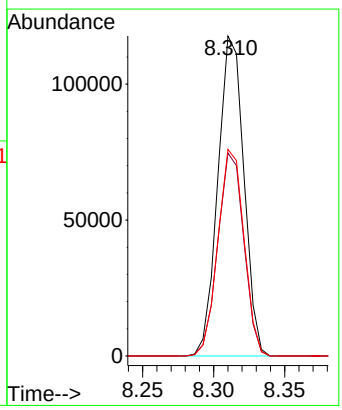


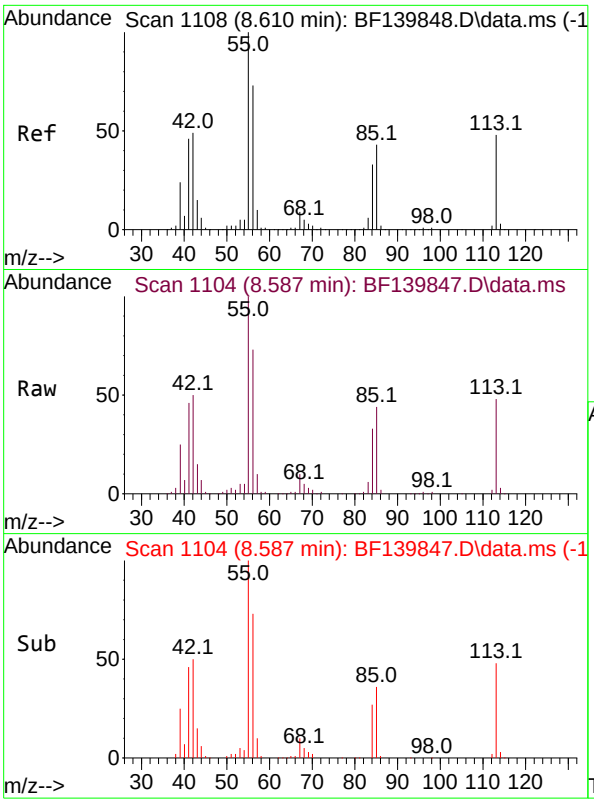


#34
Hexachlorobutadiene
Concen: 20.641 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:225 Resp: 149527

Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.6	76.0
227	64.6	51.8	77.8



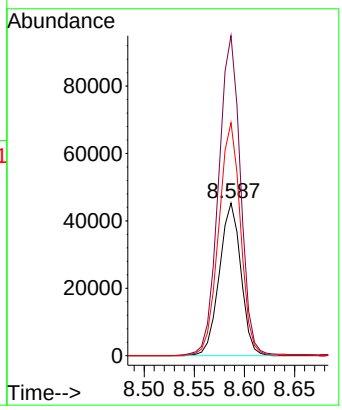


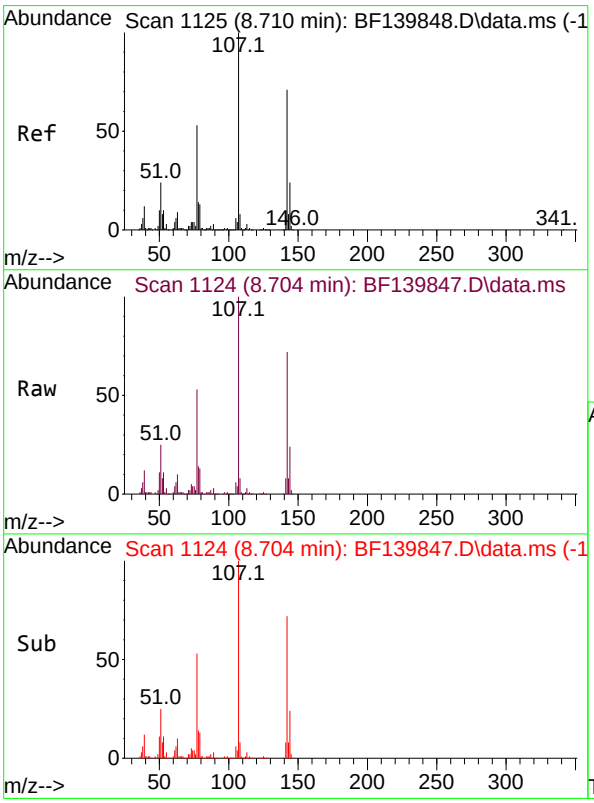
#35
Caprolactam
Concen: 20.411 ng
RT: 8.587 min Scan# 11
Delta R.T. -0.023 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 67624

Ion	Ratio	Lower	Upper
113	100		
55	209.6	189.2	229.2
56	152.6	132.5	172.5

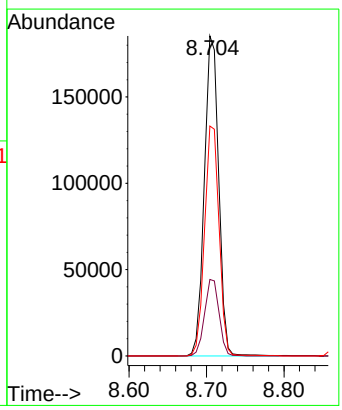


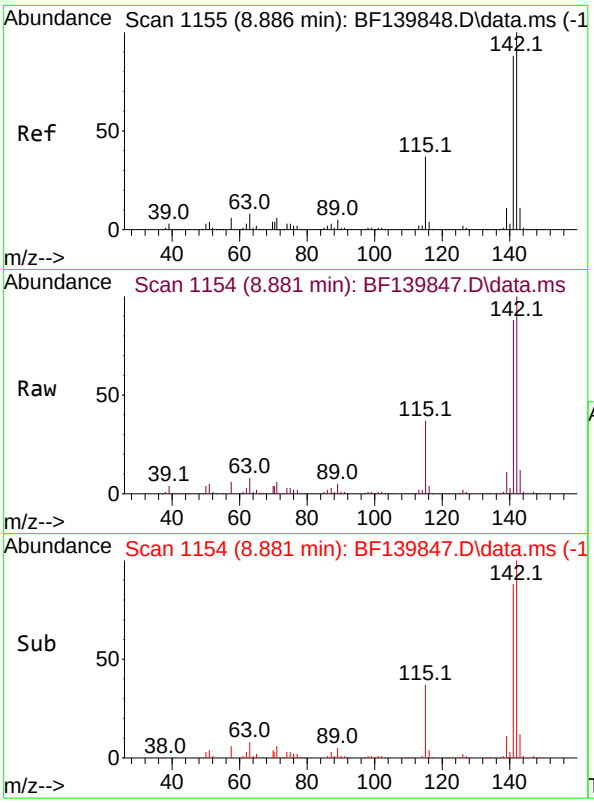


#36
4-Chloro-3-methylphenol
Concen: 20.668 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:107 Resp: 238461

Ion	Ratio	Lower	Upper
107	100		
144	23.9	19.1	28.7
142	71.9	57.2	85.8



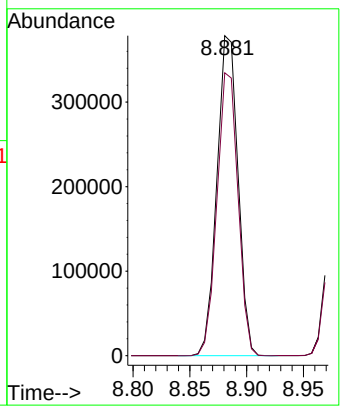


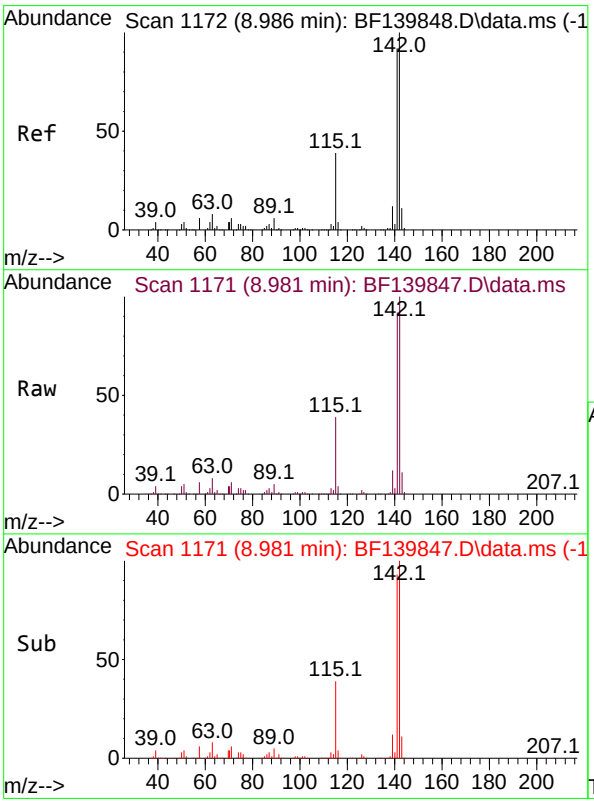
#37
2-Methylnaphthalene
Concen: 21.075 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 489343

Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.8	106.2

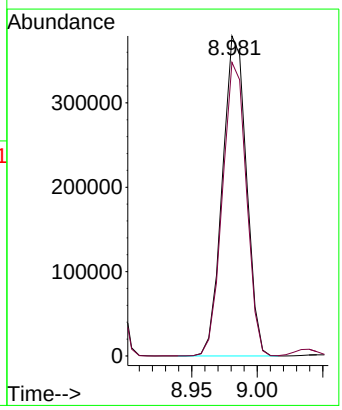


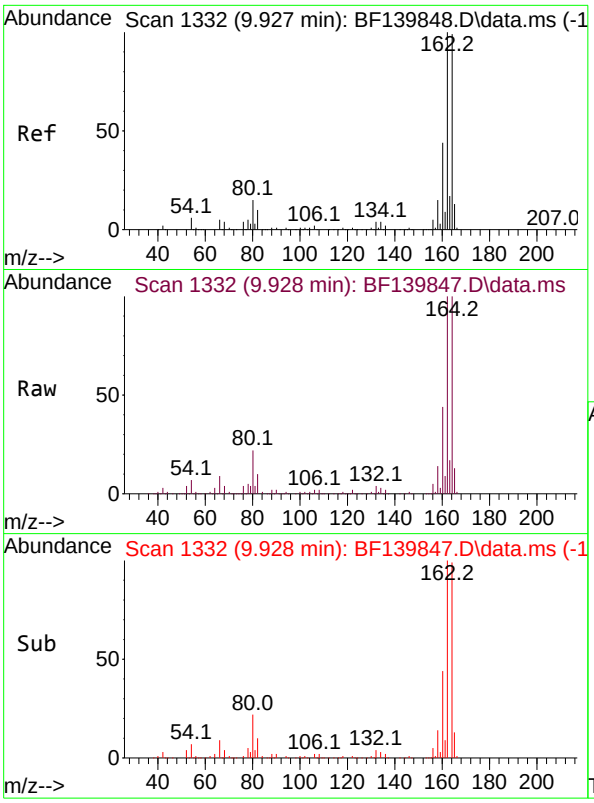


#38
1-Methylnaphthalene
Concen: 21.149 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:142 Resp: 481797

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.5	110.3



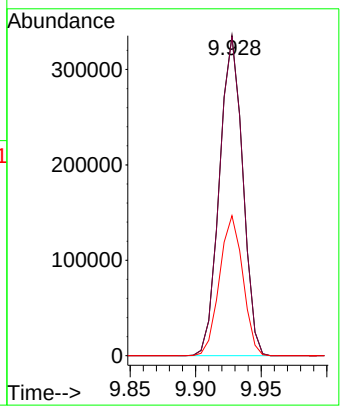


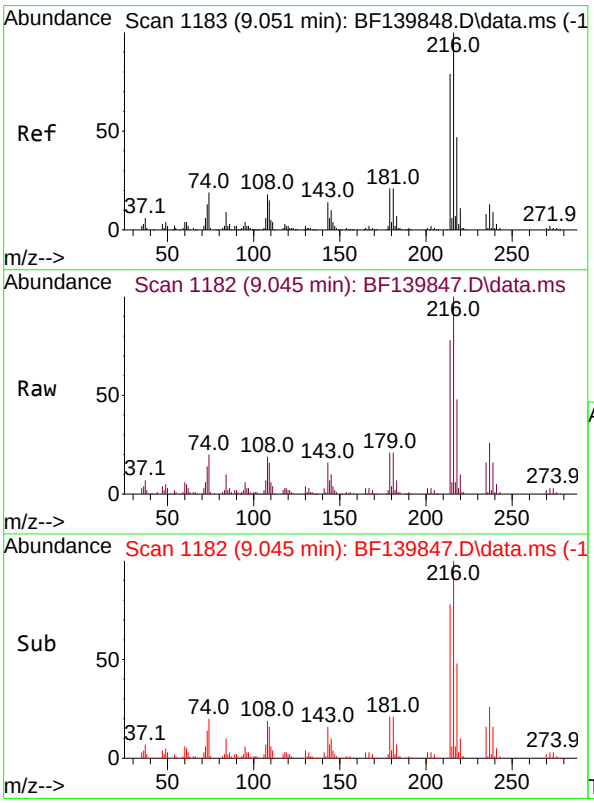
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 413023

Ion	Ratio	Lower	Upper
164	100		
162	99.7	81.0	121.4
160	43.8	35.4	53.0

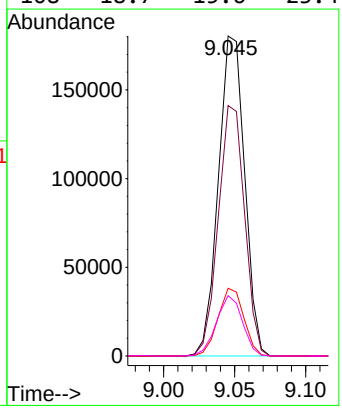


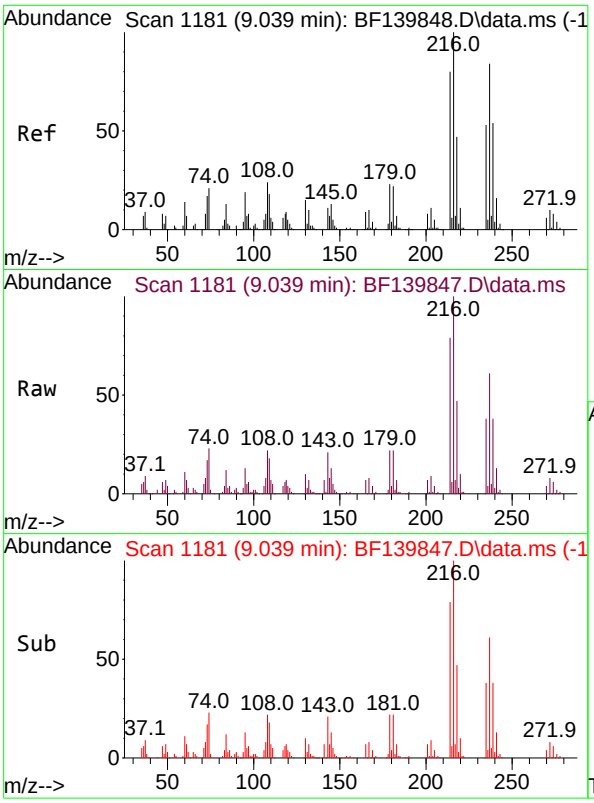


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.823 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:216 Resp: 232025

Ion	Ratio	Lower	Upper
216	100		
214	78.2	63.4	95.0
179	20.8	17.2	25.8
108	18.7	15.6	23.4



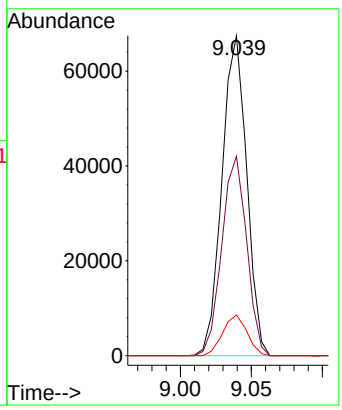


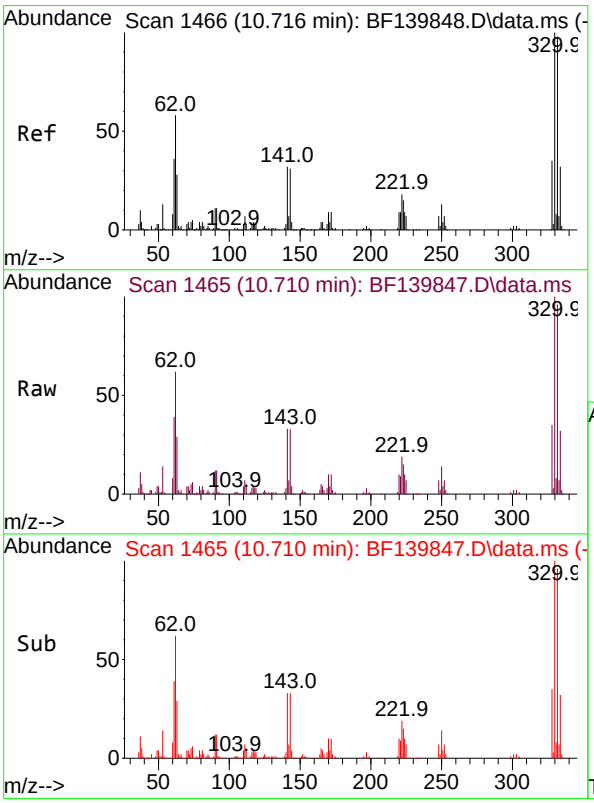
#41
Hexachlorocyclopentadiene
Concen: 21.041 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 81579

Ion	Ratio	Lower	Upper
237	100		
235	62.3	42.9	82.9
272	12.7	0.0	32.3

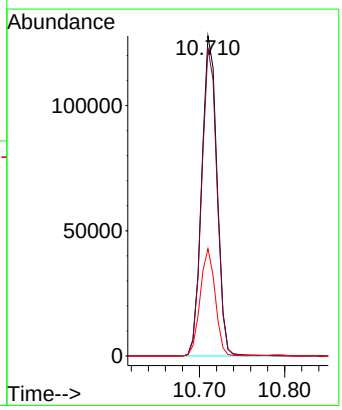


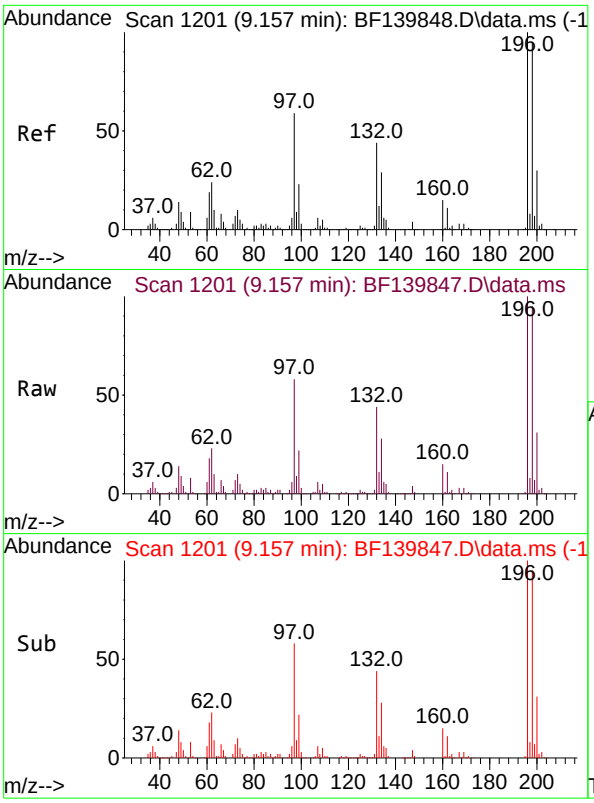


#42
2,4,6-Tribromophenol
Concen: 41.199 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:330 Resp: 159165

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.1	117.1
141	32.9	26.6	39.8



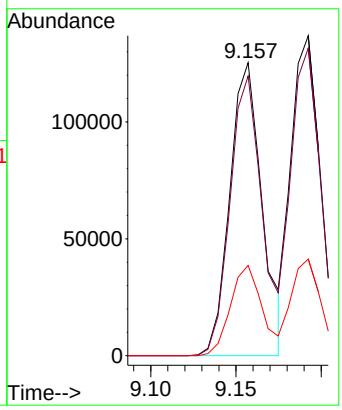


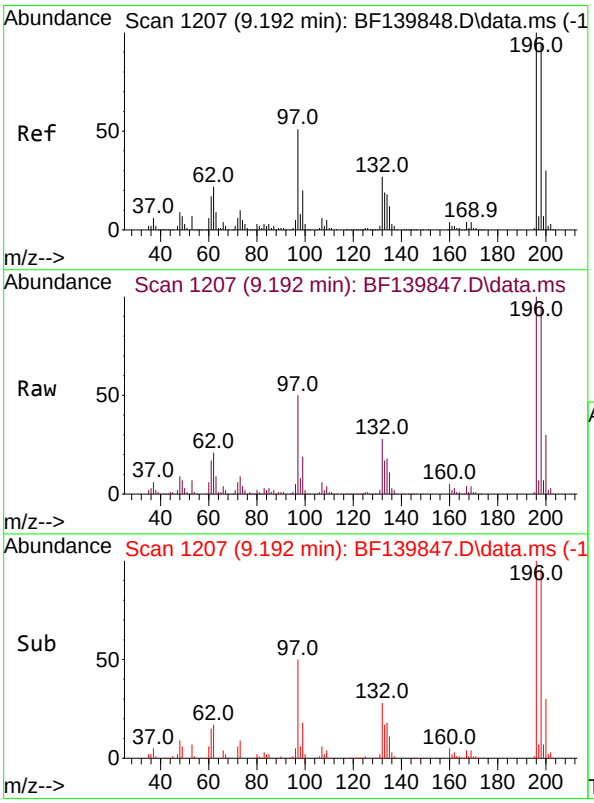
#43
2,4,6-Trichlorophenol
Concen: 20.930 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 165112

Ion	Ratio	Lower	Upper
196	100		
198	95.4	76.2	114.2
200	30.8	24.0	36.0

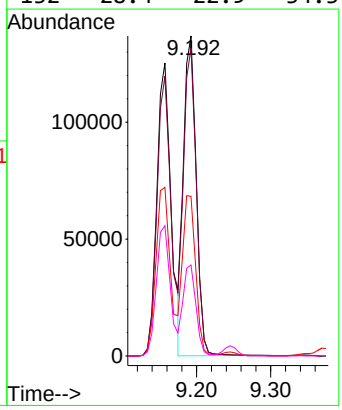


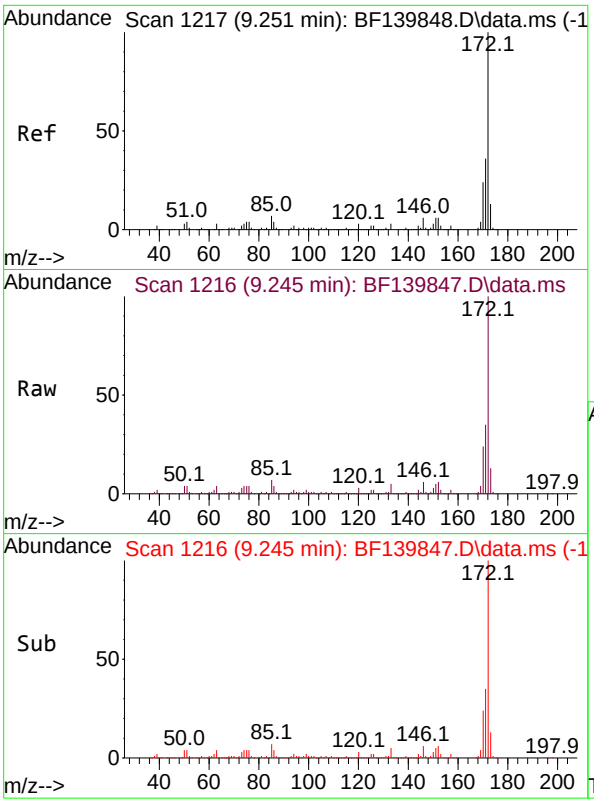


#44
2,4,5-Trichlorophenol
Concen: 20.213 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:196 Resp: 164517

Ion	Ratio	Lower	Upper
196	100		
198	96.2	75.8	113.6
97	49.9	41.8	62.6
132	28.4	22.9	34.3



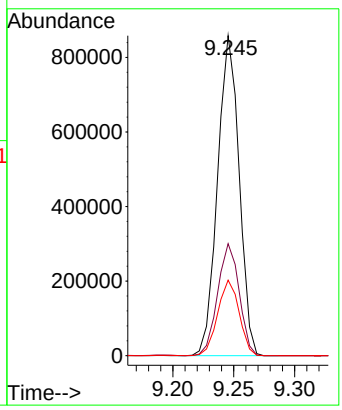


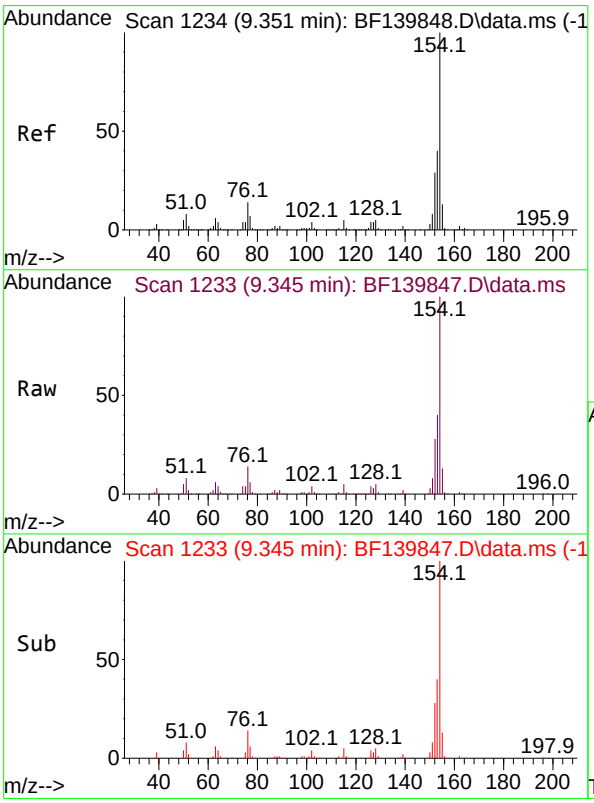
#45
2-Fluorobiphenyl
Concen: 42.316 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 1057523

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.6	43.0
170	23.6	19.1	28.7

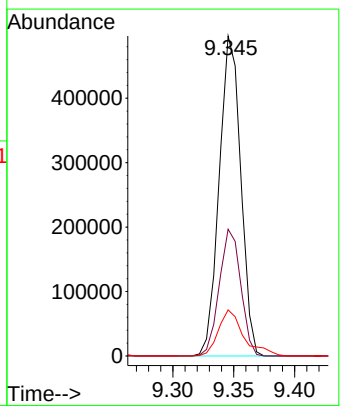


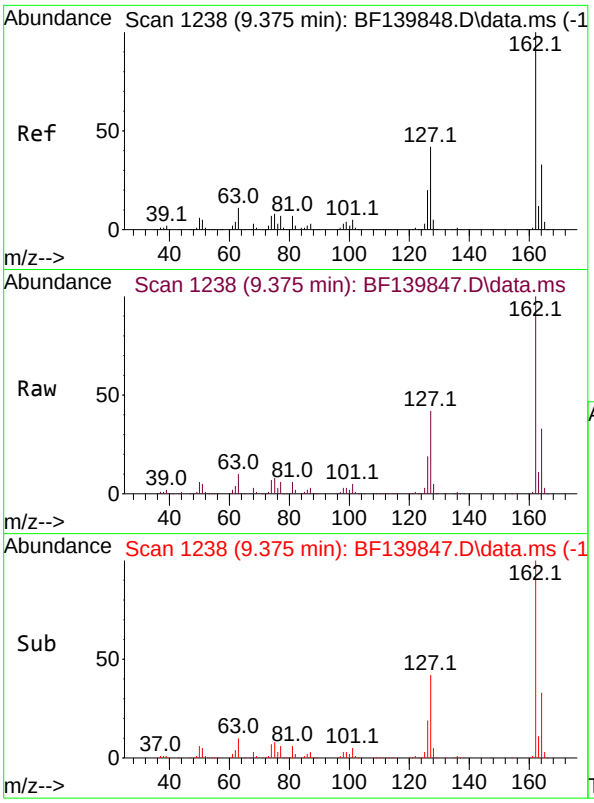


#46
1,1'-Biphenyl
Concen: 21.297 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:154 Resp: 612342

Ion	Ratio	Lower	Upper
154	100		
153	39.6	20.3	60.3
76	14.4	0.0	33.9



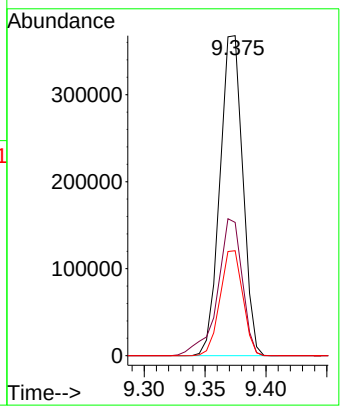


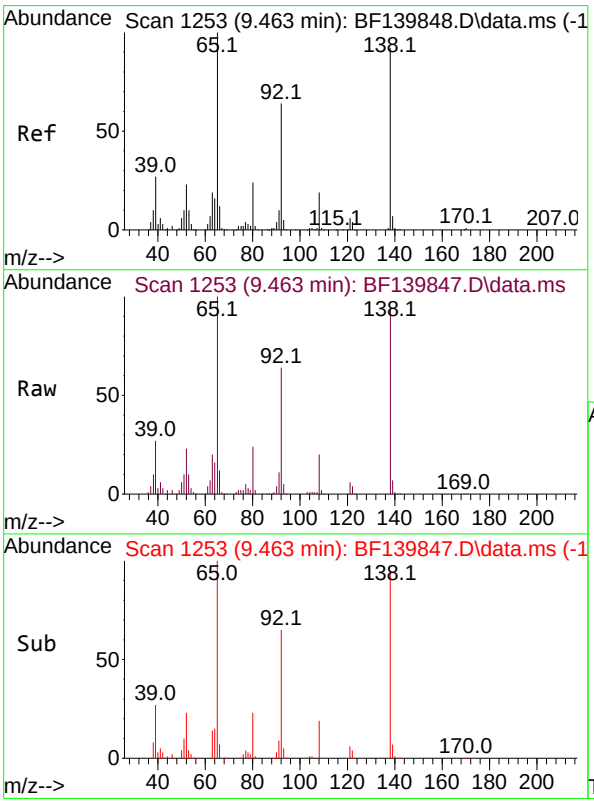
#47
2-Chloronaphthalene
Concen: 20.767 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 480916

Ion	Ratio	Lower	Upper
162	100		
127	41.7	33.8	50.6
164	32.8	26.6	39.8

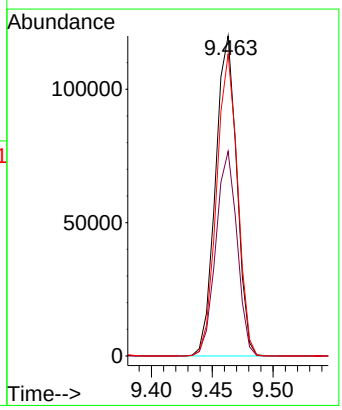


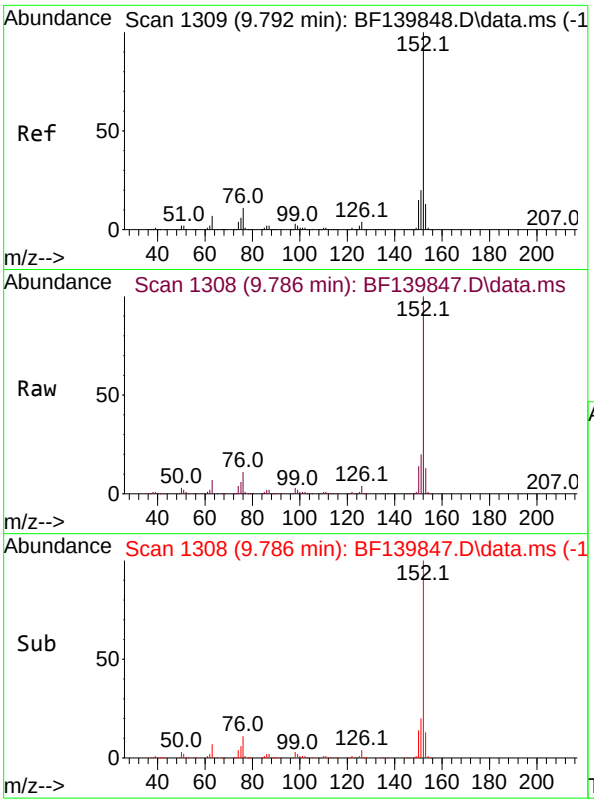


#48
2-Nitroaniline
Concen: 20.614 ng
RT: 9.463 min Scan# 1253
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion: 65 Resp: 146002

Ion	Ratio	Lower	Upper
65	100		
92	64.0	50.9	76.3
138	94.4	73.4	110.0



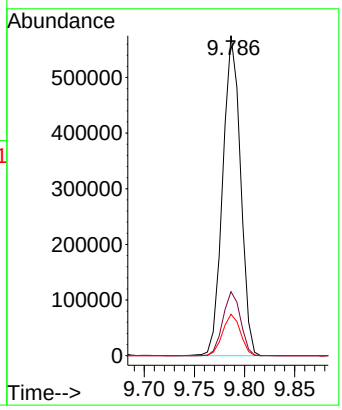


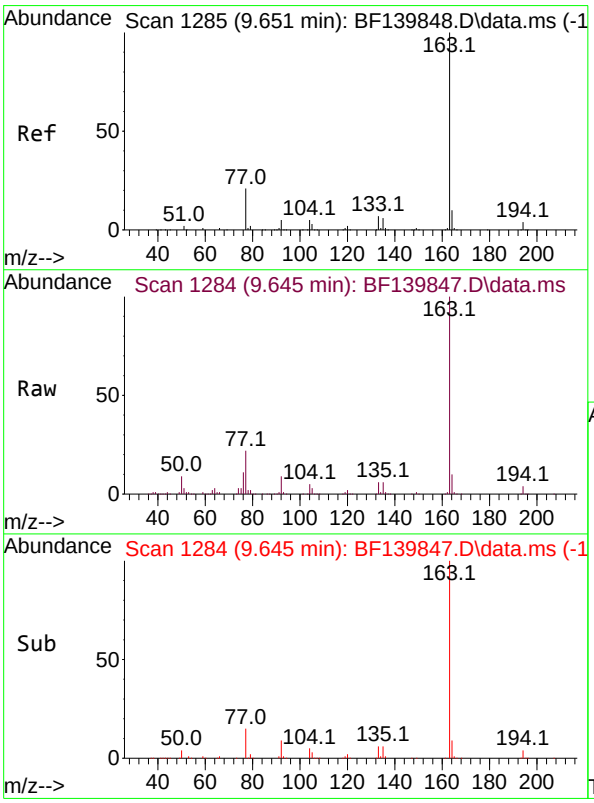
#49
Acenaphthylene
Concen: 21.182 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 709161

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.9	23.9
153	13.0	10.7	16.1

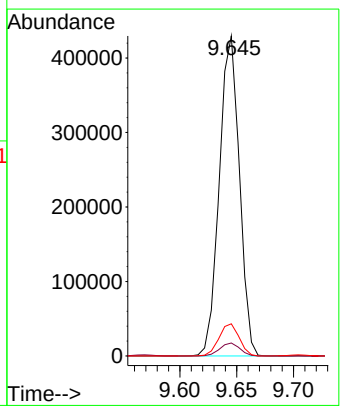


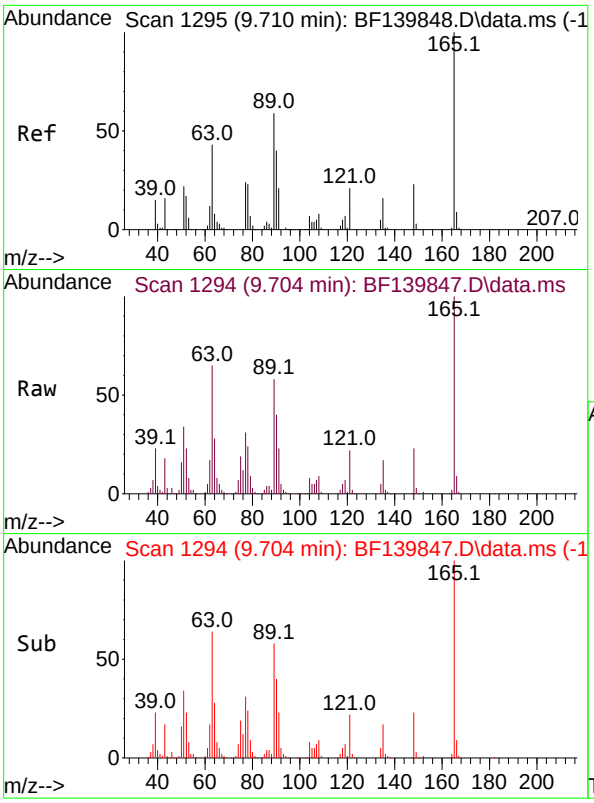


#50
Dimethylphthalate
Concen: 20.592 ng
RT: 9.645 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:163 Resp: 529745

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	8.2	12.2



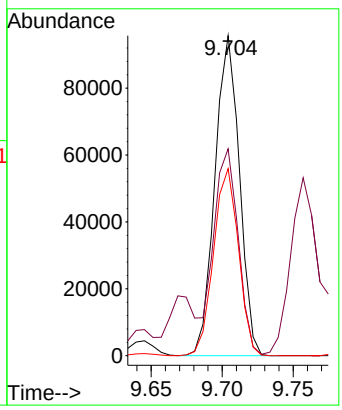


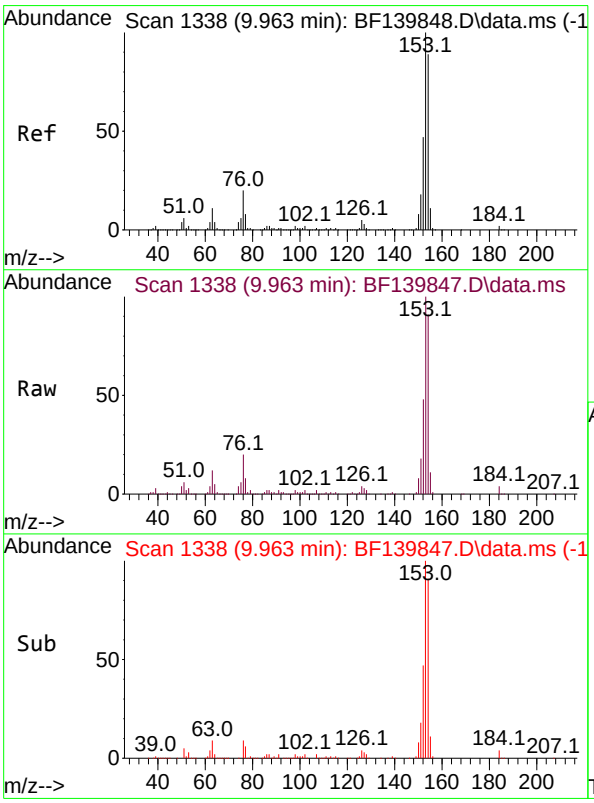
#51
2,6-Dinitrotoluene
Concen: 20.596 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 114726

Ion	Ratio	Lower	Upper
165	100		
63	64.6	50.6	75.8
89	58.4	47.5	71.3

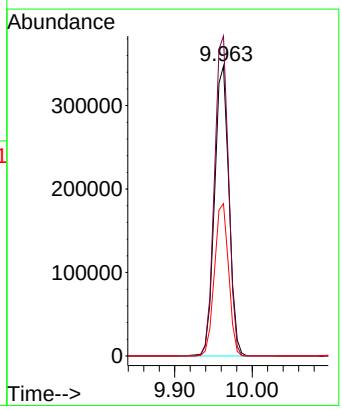


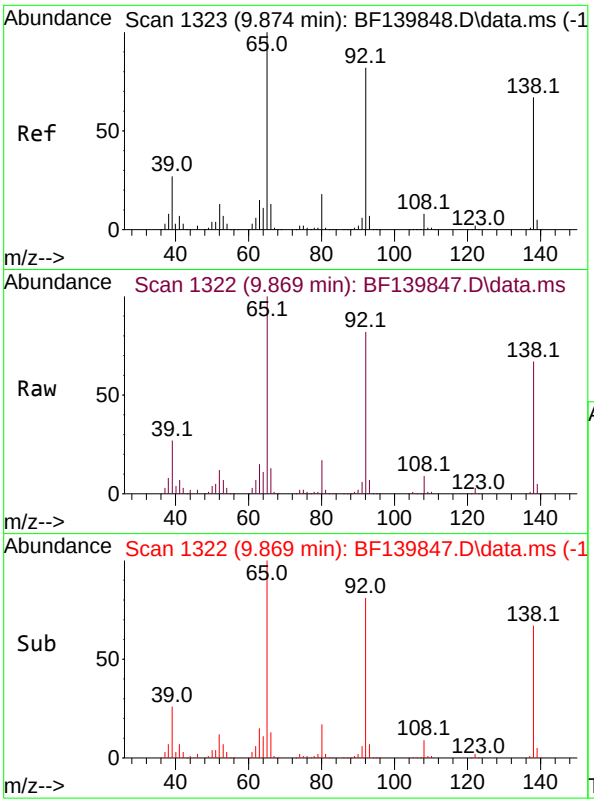


#52
Acenaphthene
Concen: 20.768 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:154 Resp: 449770

Ion	Ratio	Lower	Upper
154	100		
153	110.4	89.8	134.6
152	52.5	42.4	63.6



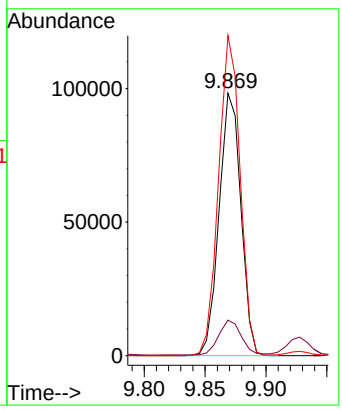


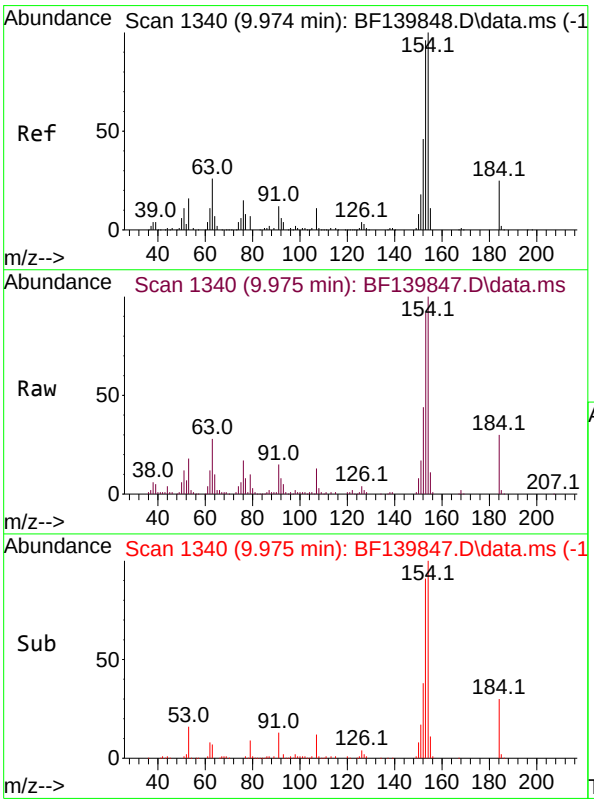
#53
3-Nitroaniline
Concen: 21.271 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 122186

Ion	Ratio	Lower	Upper
138	100		
108	13.5	10.2	15.2
92	121.9	98.3	147.5

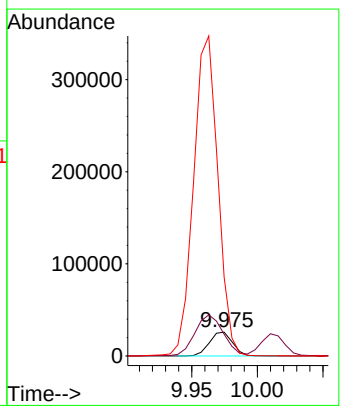


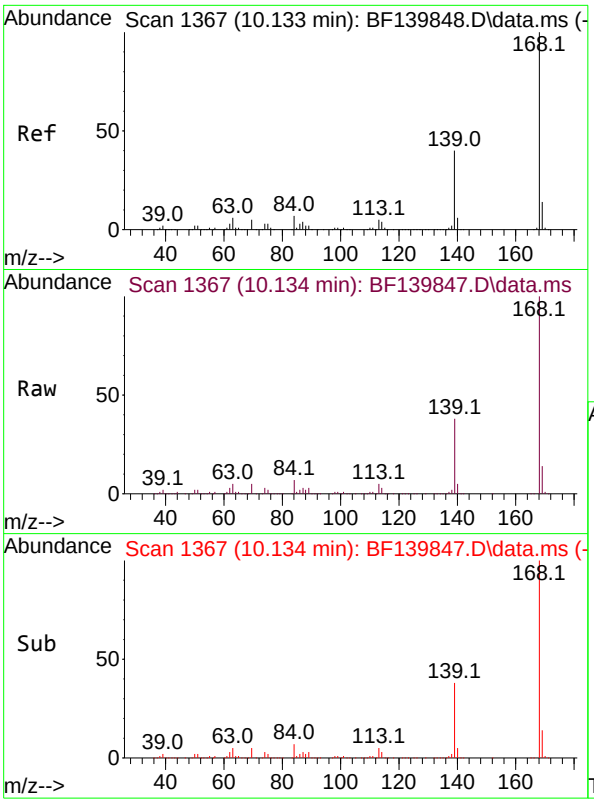


#54
2,4-Dinitrophenol
Concen: 19.148 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.001 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:184 Resp: 31801

Ion	Ratio	Lower	Upper
184	100		
63	91.3	84.7	127.1
154	331.4	338.2	507.2#



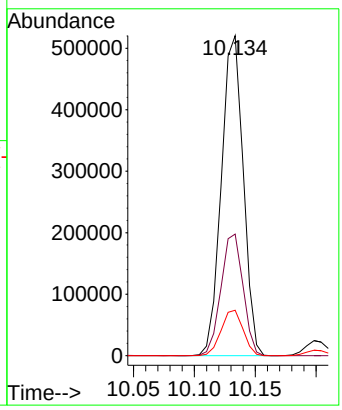


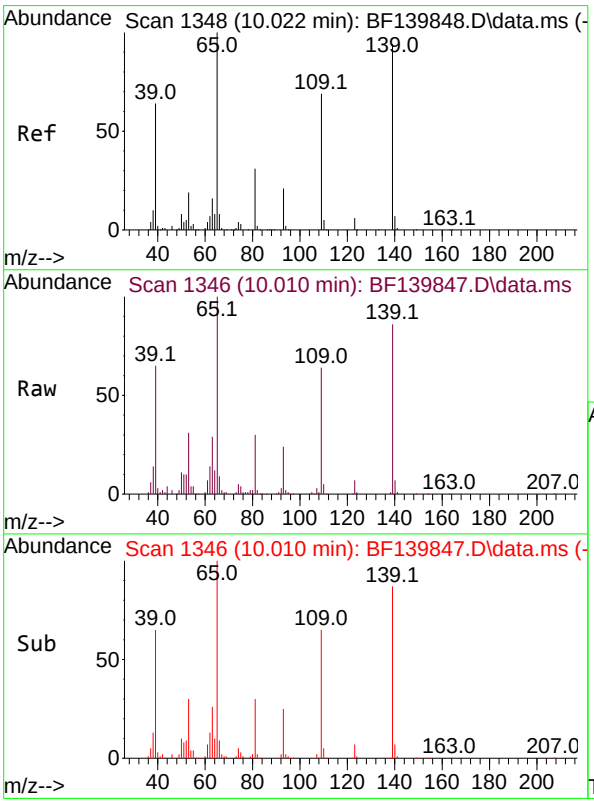
#55
Dibenzofuran
Concen: 20.991 ng
RT: 10.134 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 652249

Ion	Ratio	Lower	Upper
168	100		
139	38.0	31.8	47.6
169	14.2	11.6	17.4

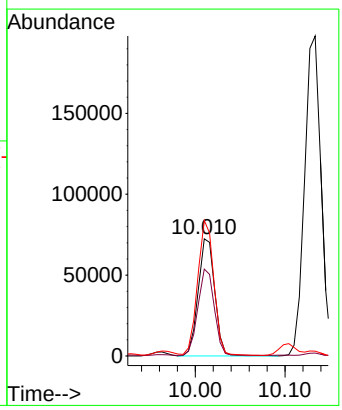


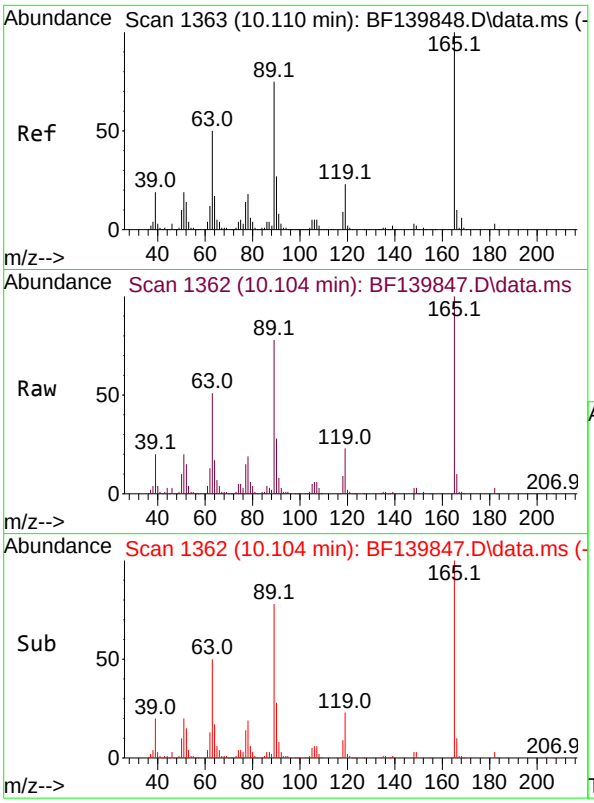


#56
4-Nitrophenol
Concen: 21.057 ng
RT: 10.010 min Scan# 1346
Delta R.T. -0.012 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:139 Resp: 93060

Ion	Ratio	Lower	Upper
139	100		
109	74.2	53.6	93.6
65	115.7	87.8	127.8



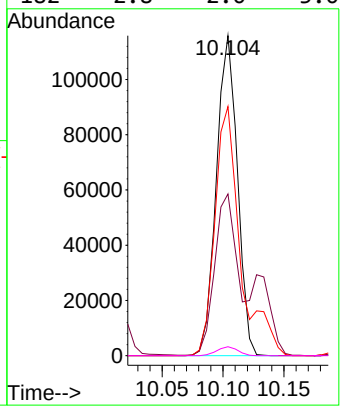


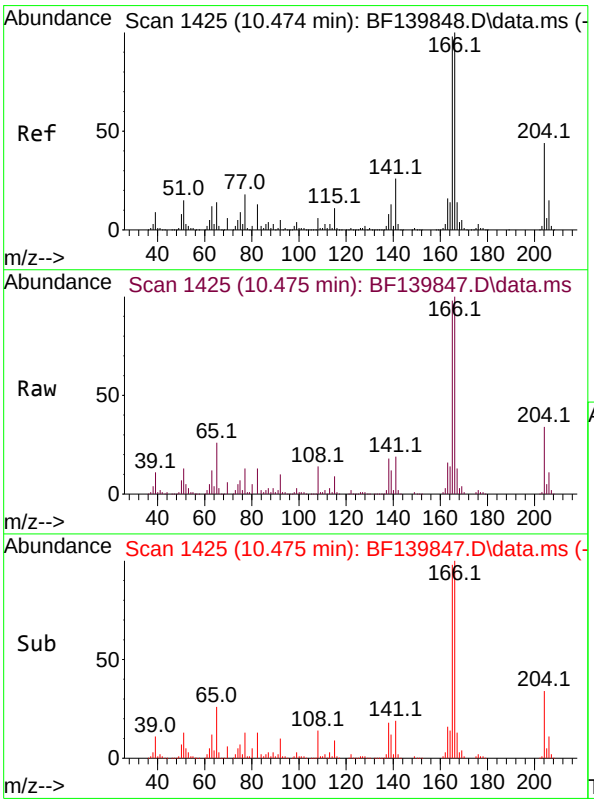
#57
2,4-Dinitrotoluene
Concen: 20.348 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 139381

Ion	Ratio	Lower	Upper
165	100		
63	50.6	40.1	60.1
89	77.9	60.4	90.6
182	2.8	2.0	3.0

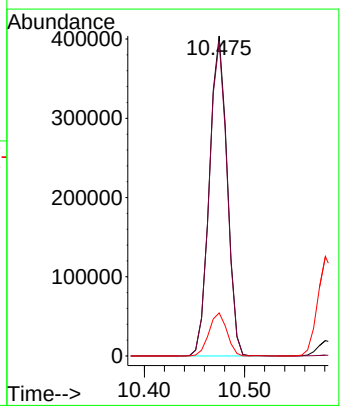


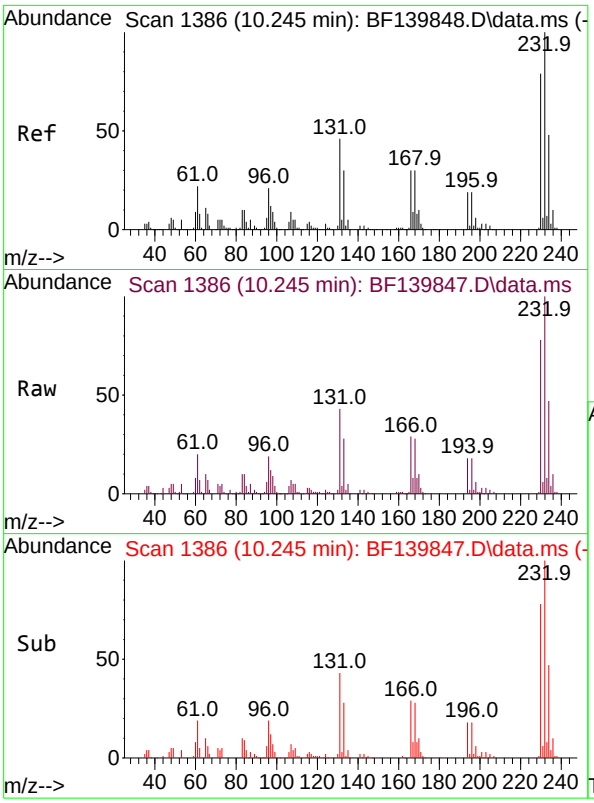


#58
Fluorene
Concen: 20.958 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:166 Resp: 496012

Ion	Ratio	Lower	Upper
166	100		
165	98.3	78.5	117.7
167	13.5	10.9	16.3



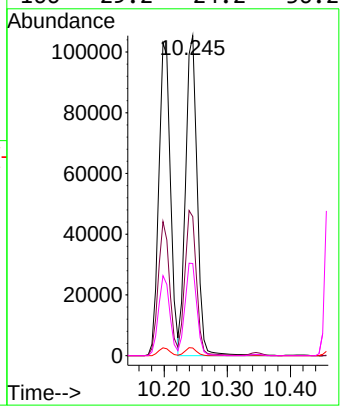


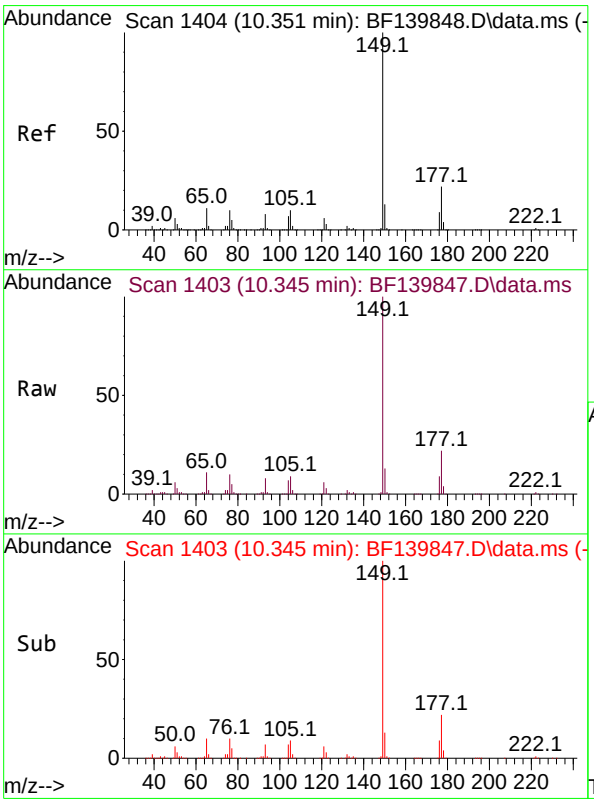
#59
2,3,4,6-Tetrachlorophenol
Concen: 21.133 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 134842

Ion	Ratio	Lower	Upper
232	100		
131	45.1	37.0	55.6
130	2.5	1.9	2.9
166	29.2	24.2	36.2

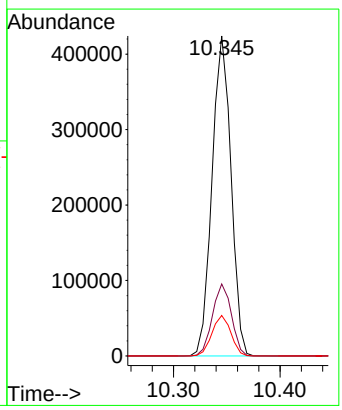


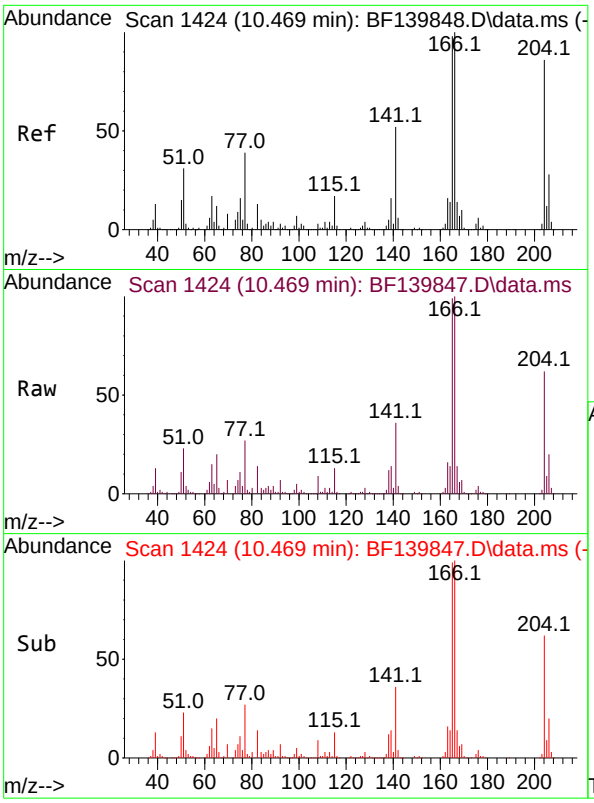


#60
Diethylphthalate
Concen: 20.723 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:149 Resp: 523458

Ion	Ratio	Lower	Upper
149	100		
177	22.5	17.9	26.9
150	12.7	10.1	15.1



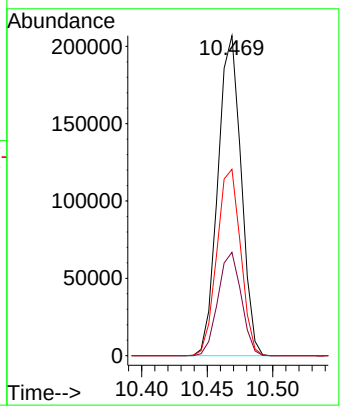


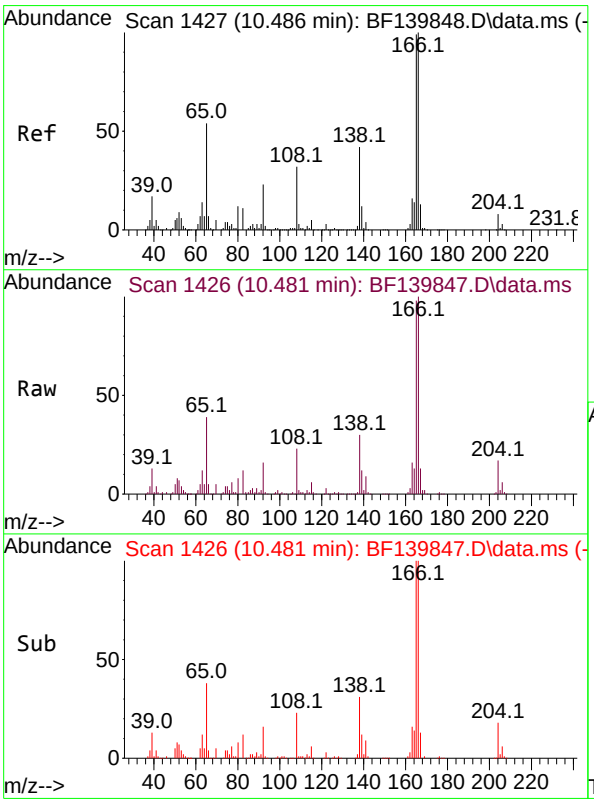
#61
4-Chlorophenyl-phenylether
Concen: 21.331 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 254950

Ion	Ratio	Lower	Upper
204	100		
206	32.3	26.3	39.5
141	58.3	48.6	73.0

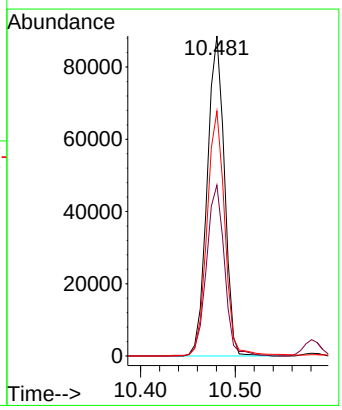


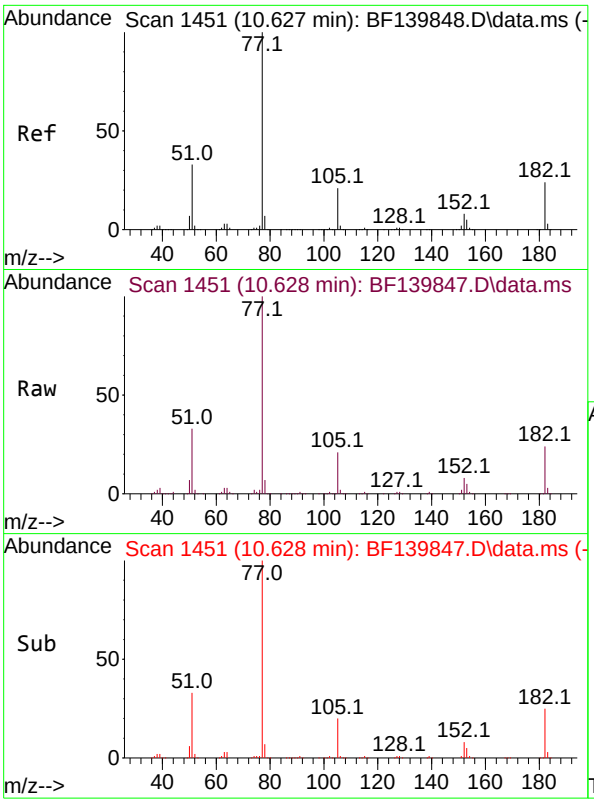


#62
4-Nitroaniline
Concen: 20.586 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:138 Resp: 111683

Ion	Ratio	Lower	Upper
138	100		
92	53.4	35.7	75.7
108	76.5	57.5	97.5



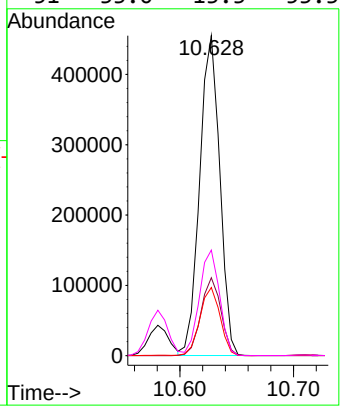


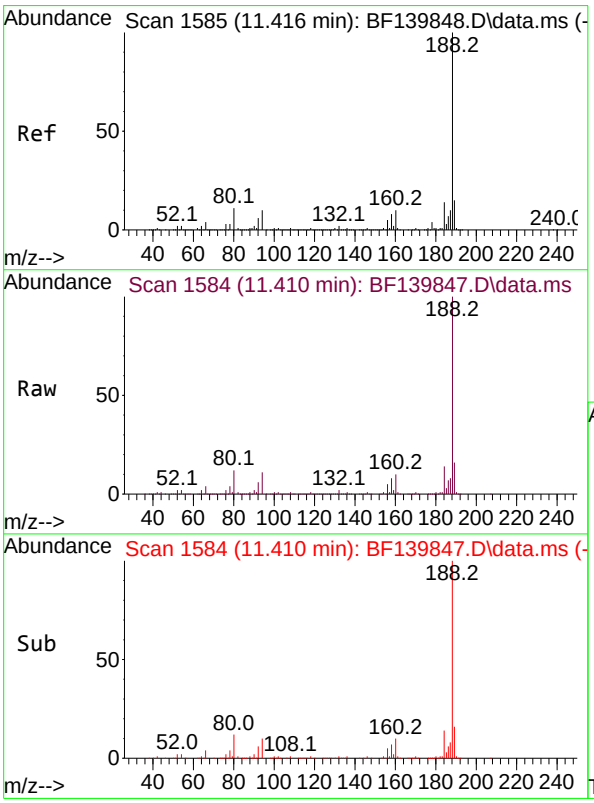
#63
Azobenzene
Concen: 20.906 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 559837

Ion	Ratio	Lower	Upper
77	100		
182	24.4	3.3	43.3
105	21.3	1.2	41.2
51	33.0	13.3	53.3

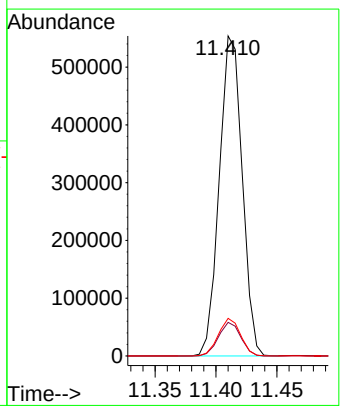


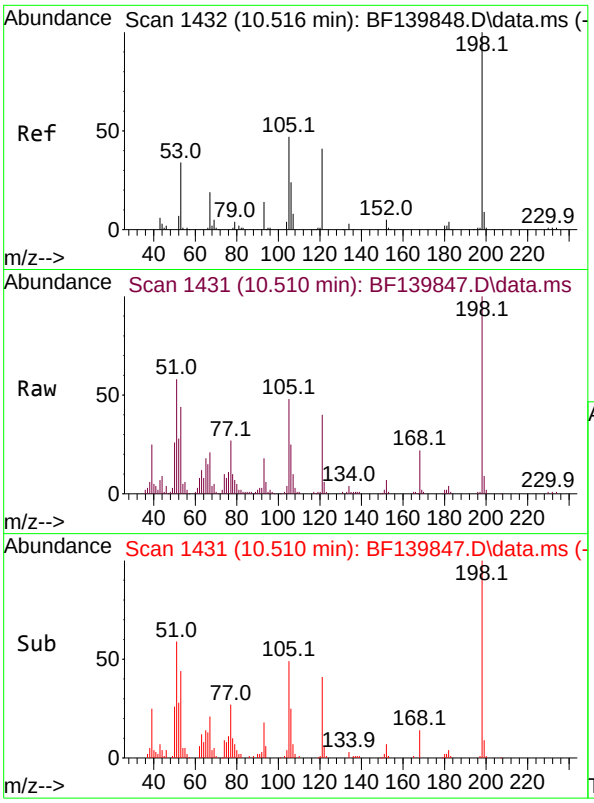


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:188 Resp: 724973

Ion	Ratio	Lower	Upper
188	100		
94	10.5	7.9	11.9
80	11.7	9.0	13.4



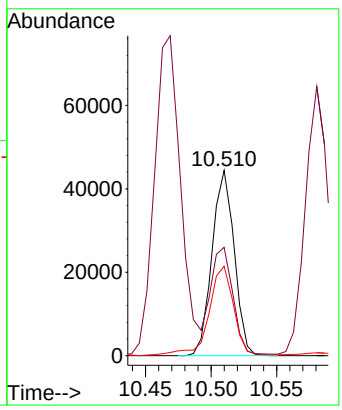


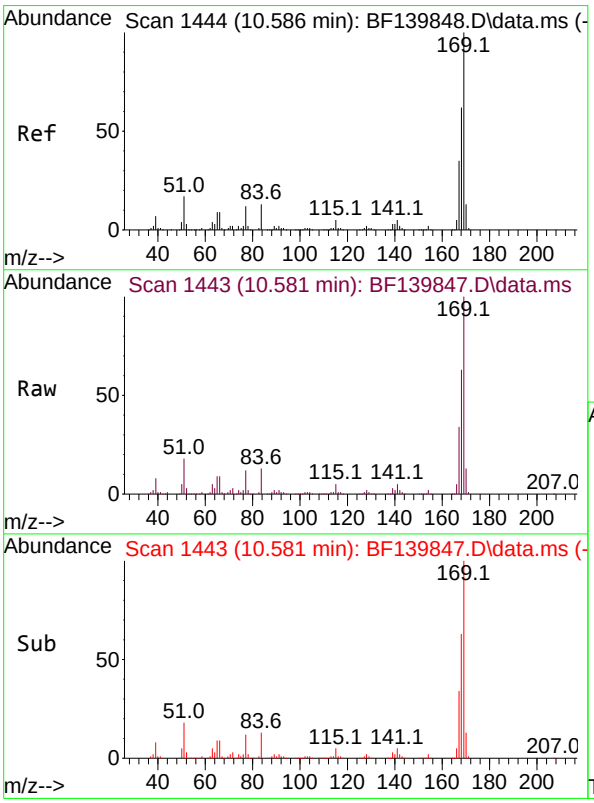
#65
4,6-Dinitro-2-methylphenol
Concen: 17.645 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 52180

Ion	Ratio	Lower	Upper
198	100		
51	58.5	38.2	78.2
105	48.3	27.9	67.9

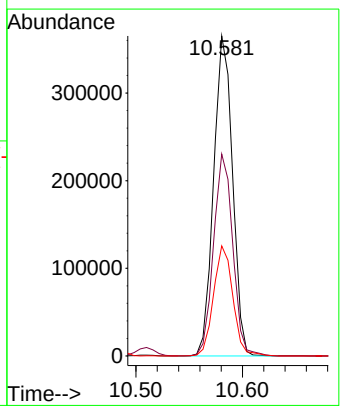


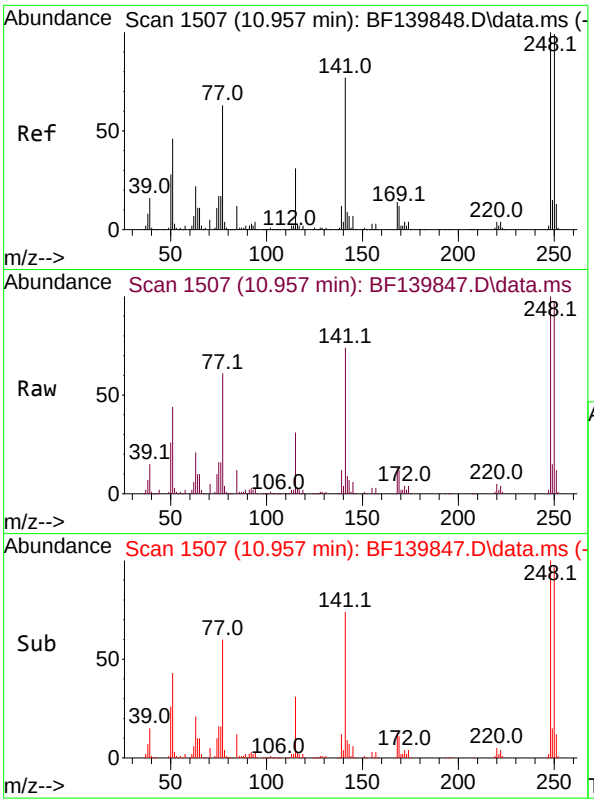


#66
n-Nitrosodiphenylamine
Concen: 20.736 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:169 Resp: 449925

Ion	Ratio	Lower	Upper
169	100		
168	63.1	49.8	74.6
167	34.4	28.0	42.0



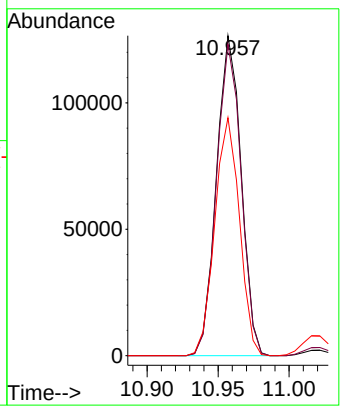


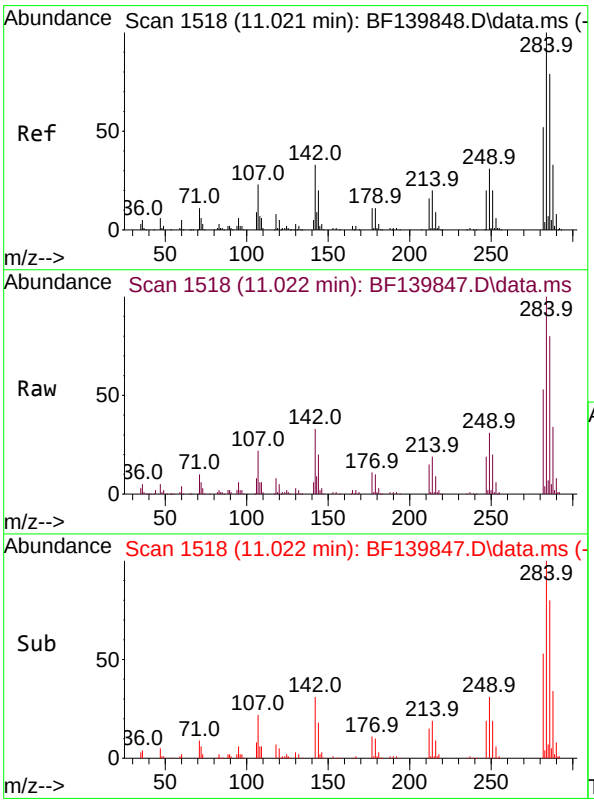
#67
4-Bromophenyl-phenylether
Concen: 20.512 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 153196

Ion	Ratio	Lower	Upper
248	100		
250	97.4	79.0	118.6
141	74.3	61.7	92.5

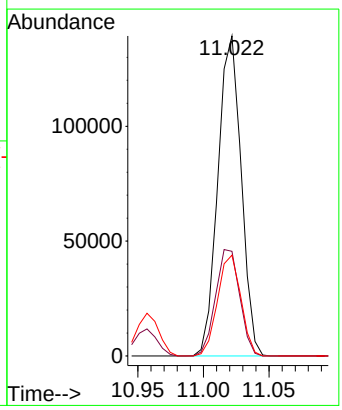


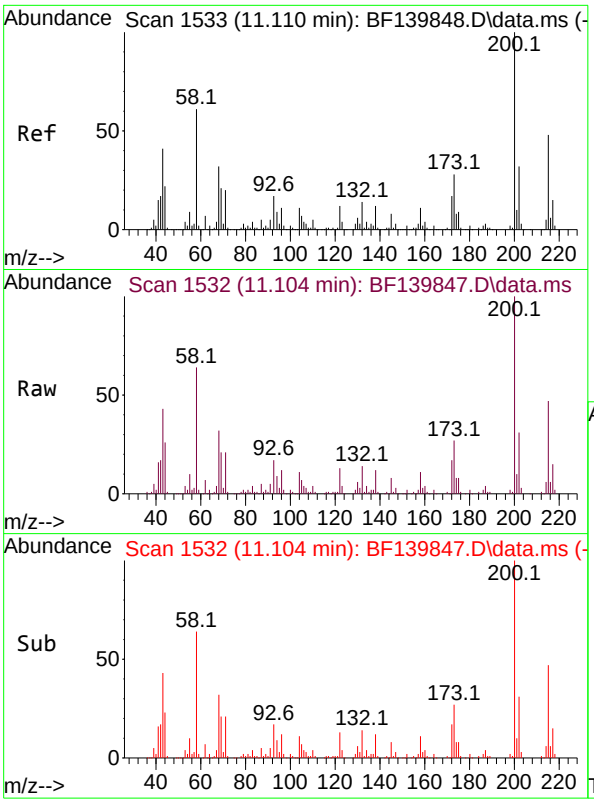


#68
Hexachlorobenzene
Concen: 20.488 ng
RT: 11.022 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:284 Resp: 172091

Ion	Ratio	Lower	Upper
284	100		
142	32.7	26.9	40.3
249	31.5	25.3	37.9



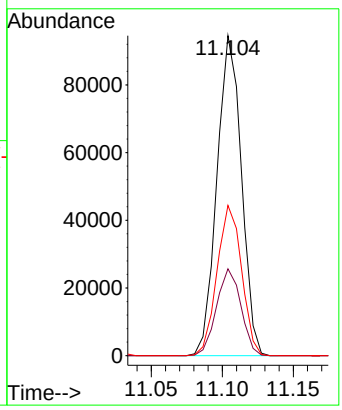


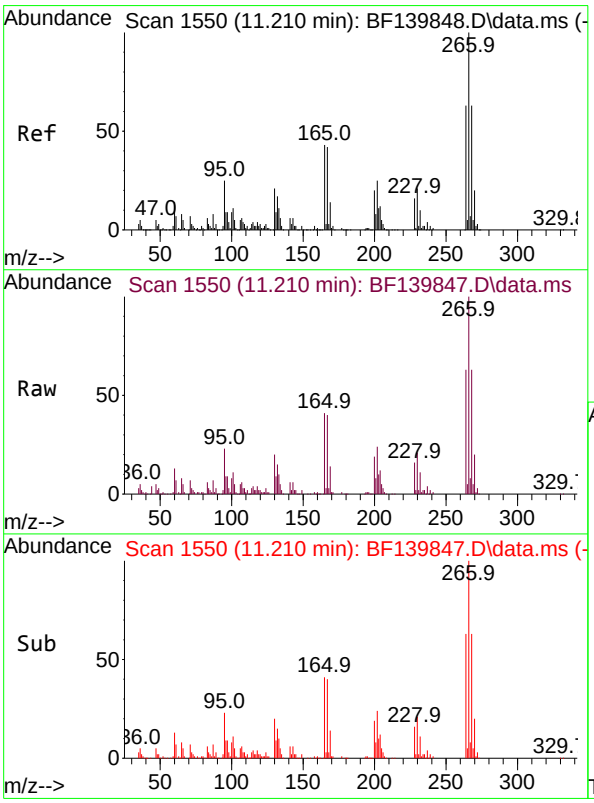
#69
Atrazine
Concen: 19.240 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 113089

Ion	Ratio	Lower	Upper
200	100		
173	27.2	7.7	47.7
215	46.9	27.7	67.7

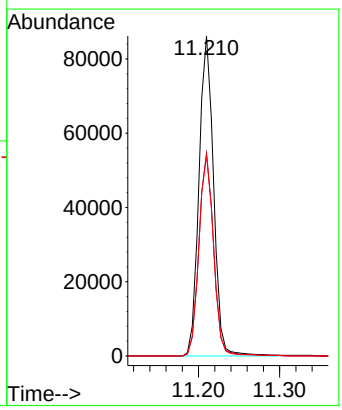


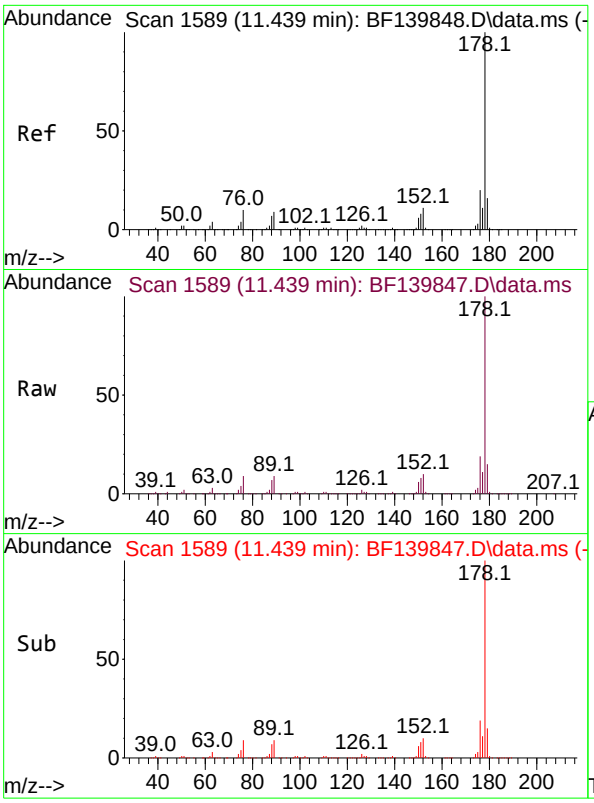


#70
Pentachlorophenol
Concen: 21.106 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:266 Resp: 107595

Ion	Ratio	Lower	Upper
266	100		
268	63.4	50.4	75.6
264	62.8	50.6	75.8



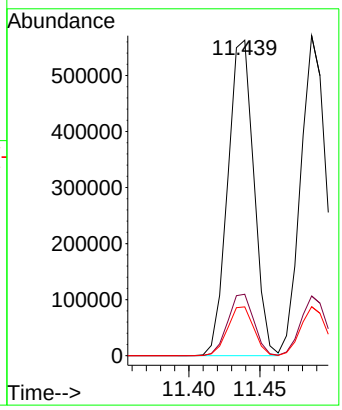


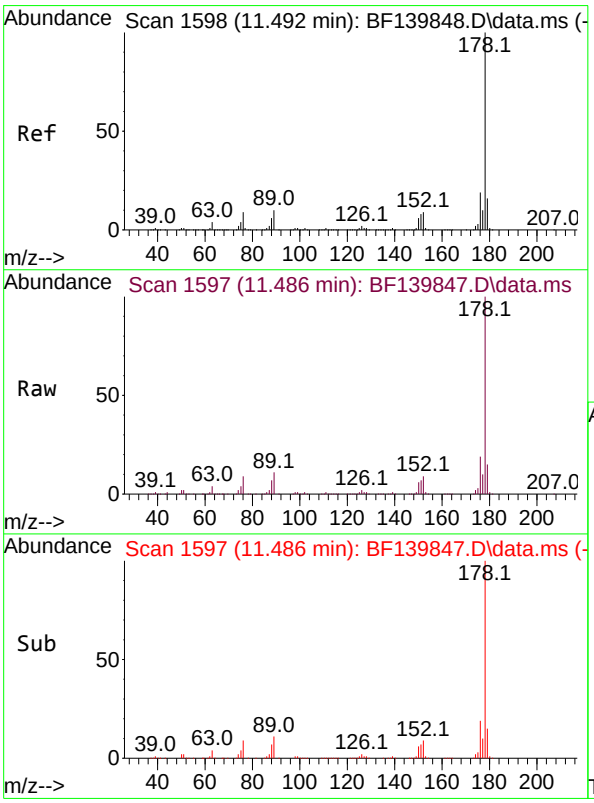
#71
Phenanthrene
Concen: 21.036 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 720363

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.6
179	15.5	12.6	18.8

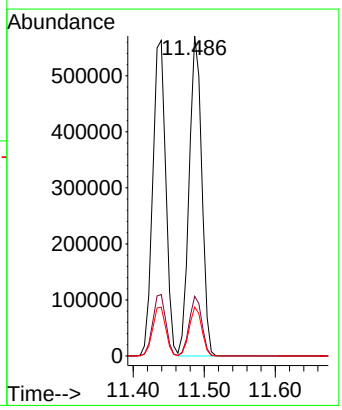


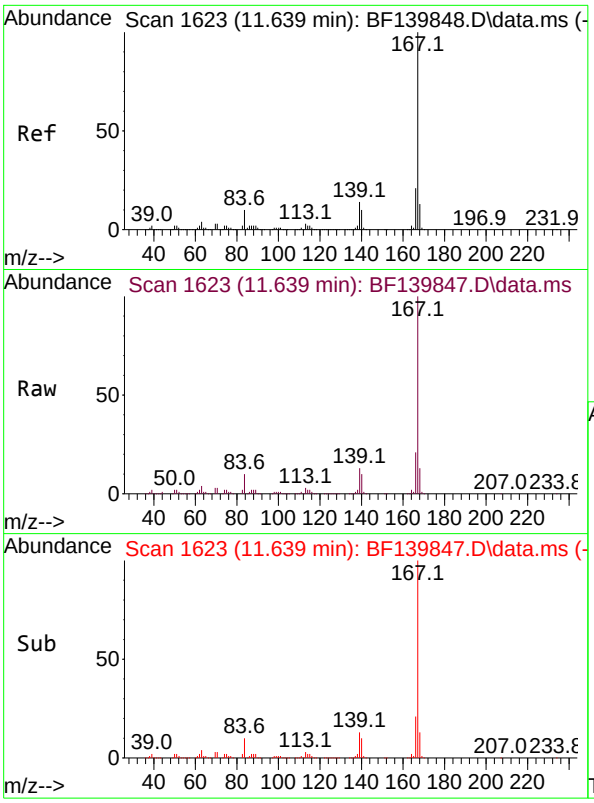


#72
Anthracene
Concen: 21.083 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:178 Resp: 704417

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.3	22.9
179	15.3	12.4	18.6



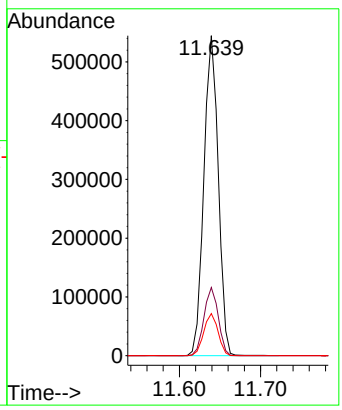


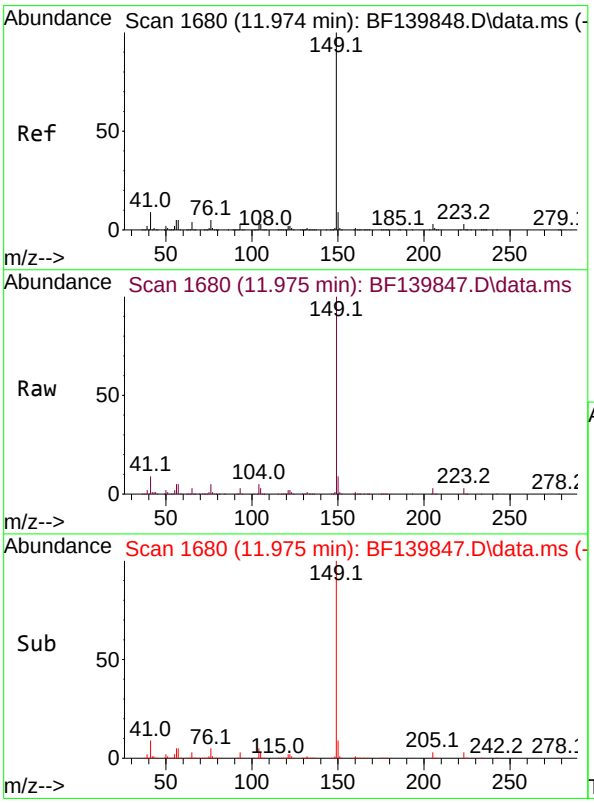
#73
Carbazole
Concen: 21.540 ng
RT: 11.639 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 669328

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.6
139	13.1	10.8	16.2

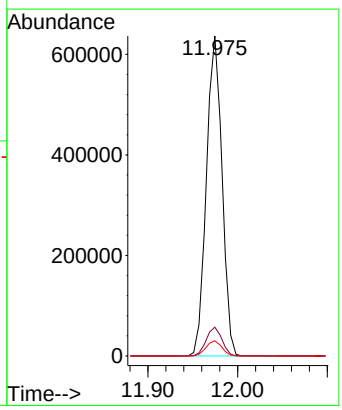


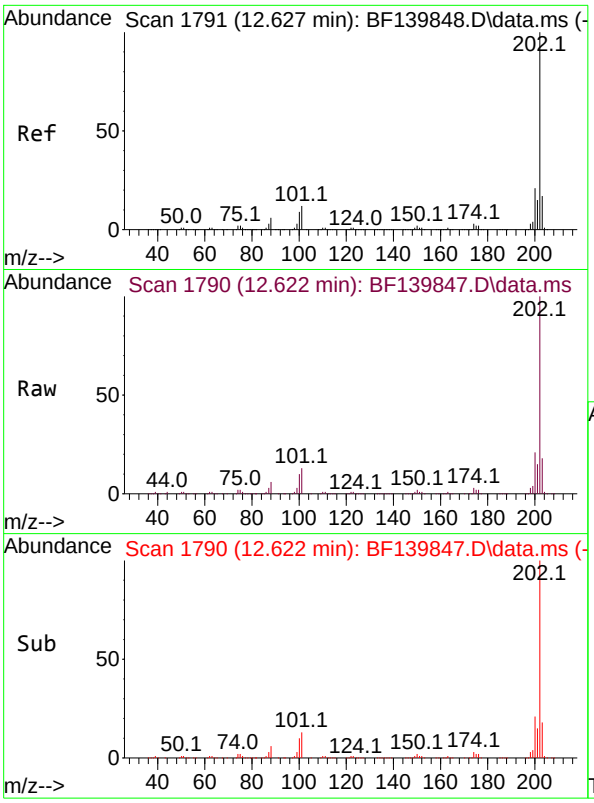


#74
Di-n-butylphthalate
Concen: 21.442 ng
RT: 11.975 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:149 Resp: 769779

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.5	11.3
104	4.8	4.1	6.1



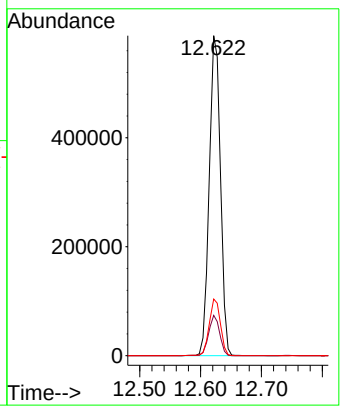


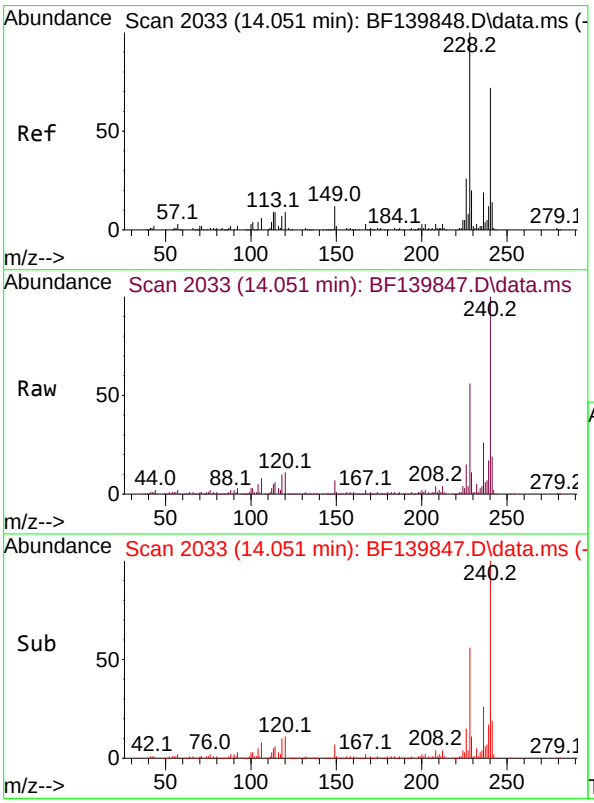
#75
Fluoranthene
Concen: 21.703 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 751337

Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	31.9
203	17.7	0.0	37.5

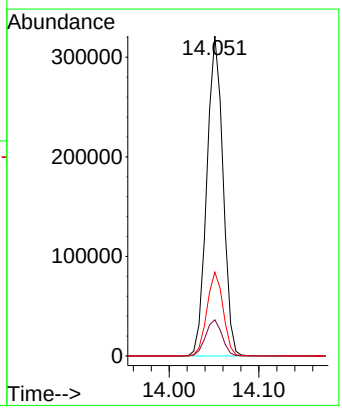


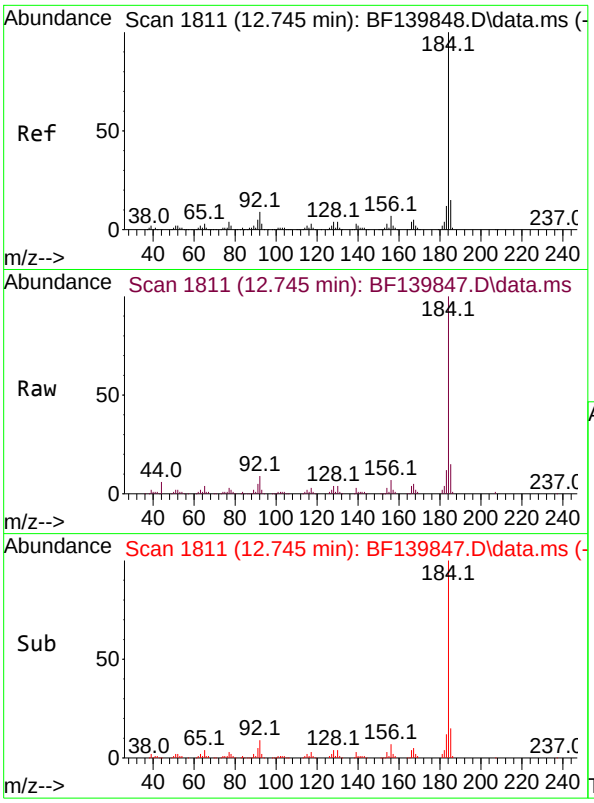


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:240 Resp: 402251

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.4	14.2
236	26.2	20.9	31.3



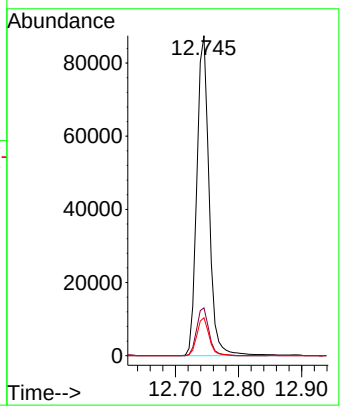


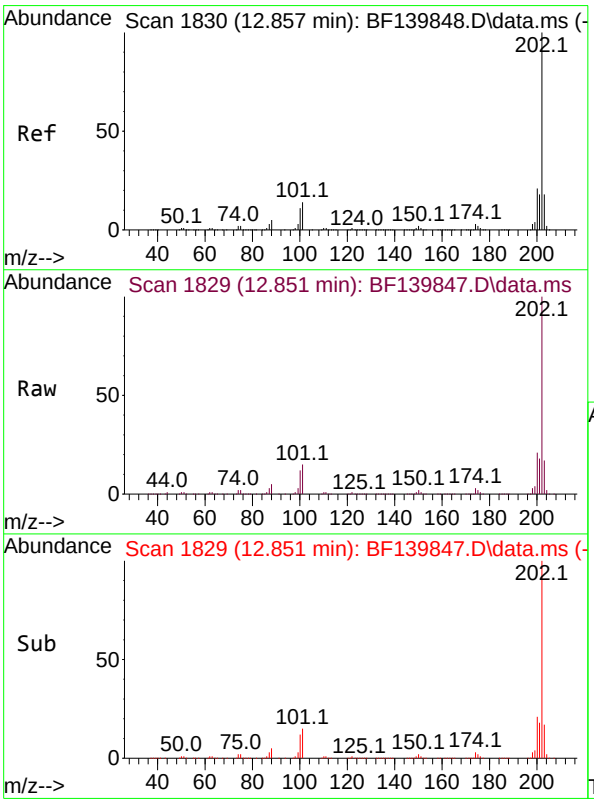
#77
Benzidine
Concen: 18.042 ng
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 118035

Ion	Ratio	Lower	Upper
184	100		
185	15.0	12.0	18.0
183	11.8	9.4	14.2

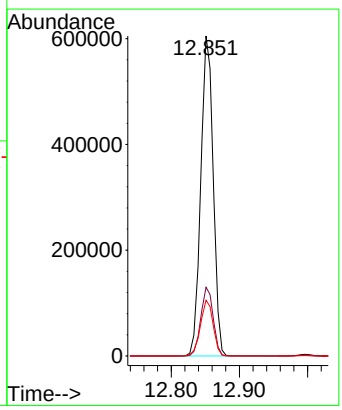


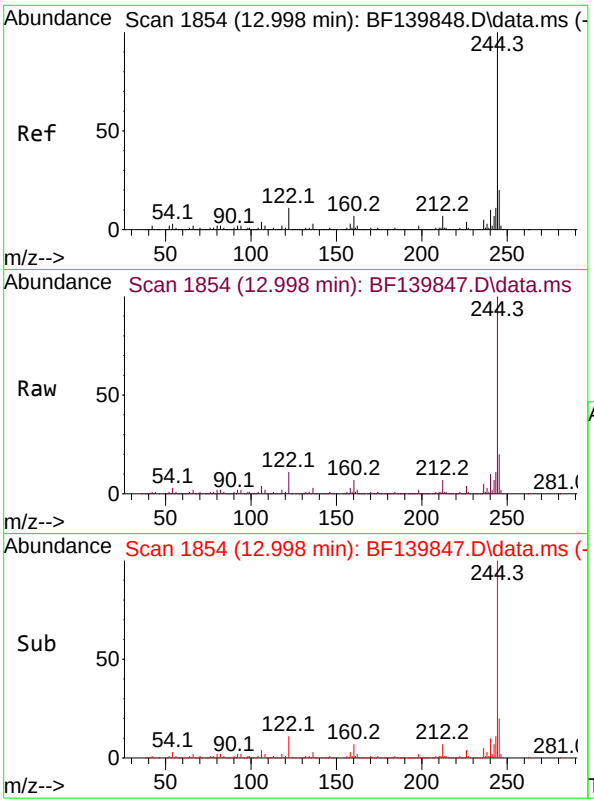


#78
Pyrene
Concen: 21.700 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:202 Resp: 764077

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8
203	17.4	14.2	21.4



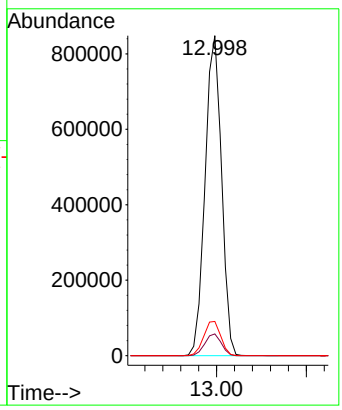


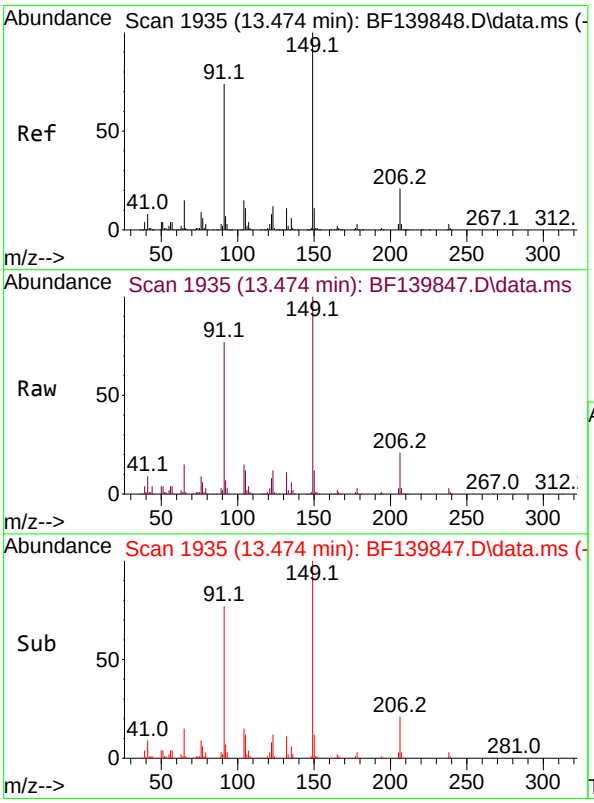
#79
Terphenyl-d14
Concen: 43.673 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 1078101

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	10.7	8.6	13.0

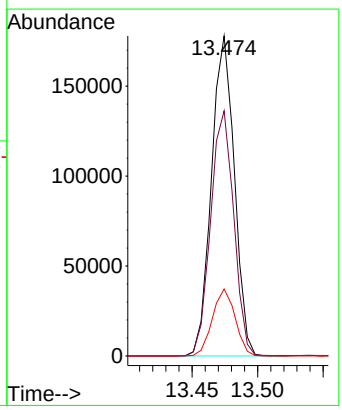


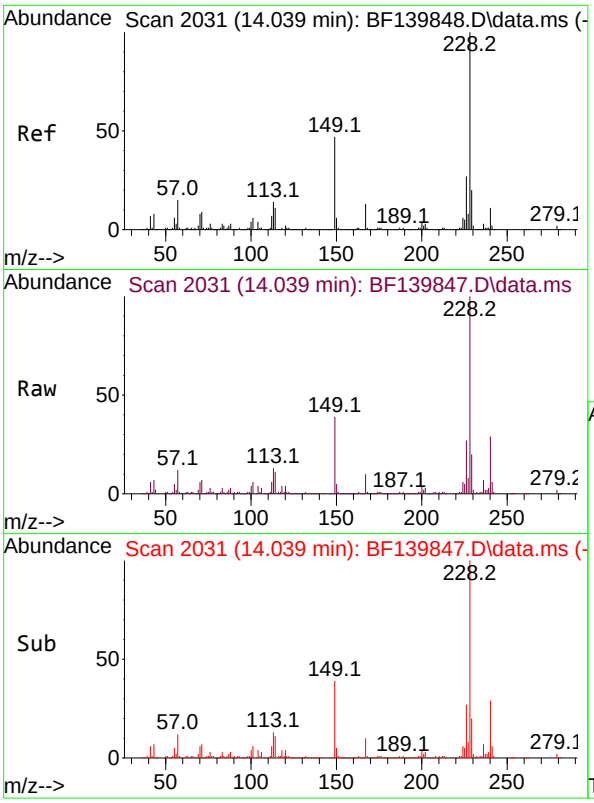


#80
Butylbenzylphthalate
Concen: 20.432 ng
RT: 13.474 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:149 Resp: 215683

Ion	Ratio	Lower	Upper
149	100		
91	76.6	59.4	89.2
206	20.9	16.4	24.6



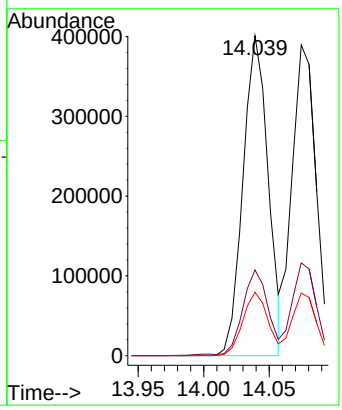


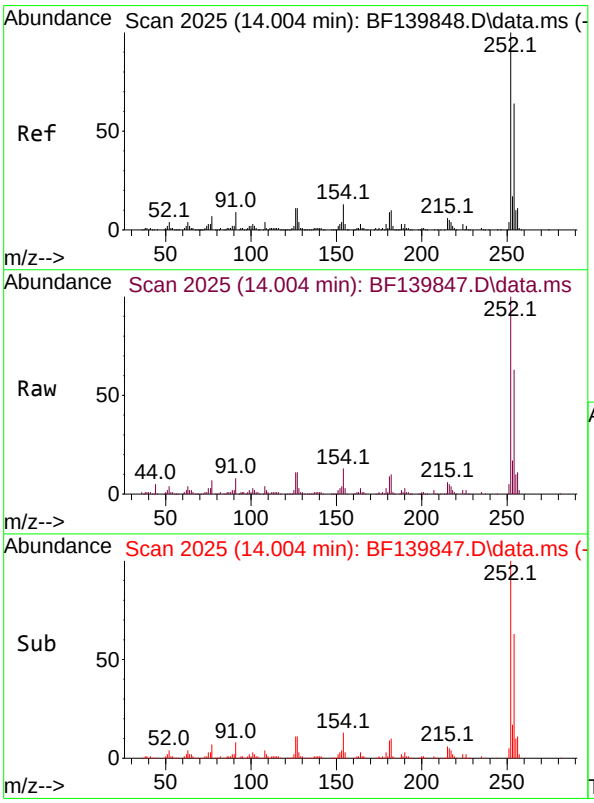
#81
Benzo(a)anthracene
Concen: 20.413 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 534525

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.6	32.4
229	19.8	16.1	24.1

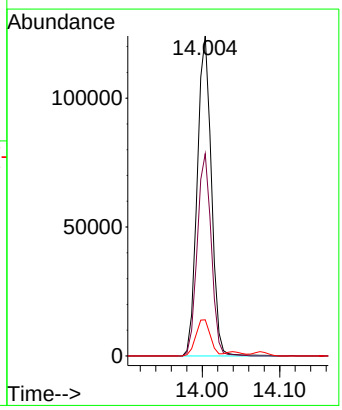


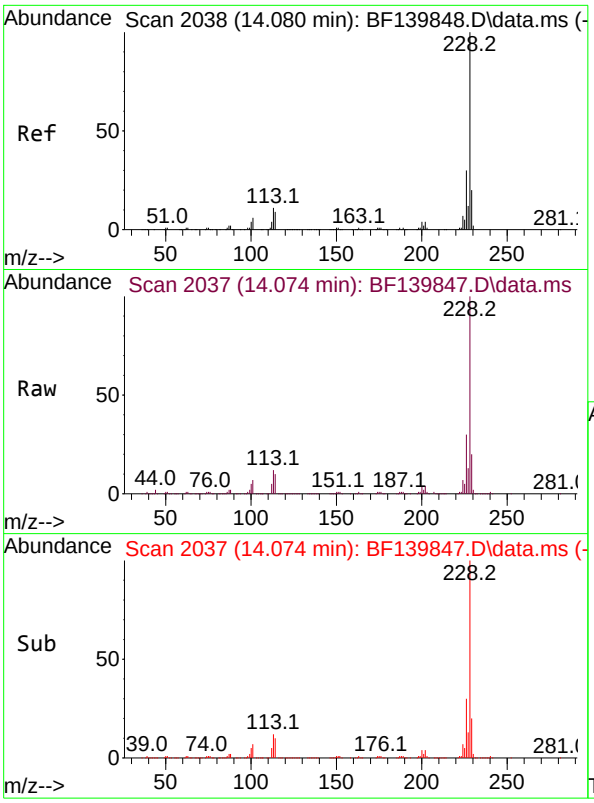


#82
3,3'-Dichlorobenzidine
Concen: 20.534 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:252 Resp: 156770

Ion	Ratio	Lower	Upper
252	100		
254	63.2	50.8	76.2
126	11.3	8.9	13.3



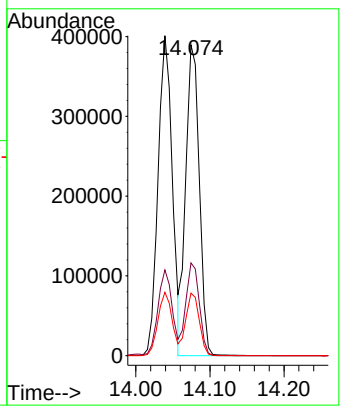


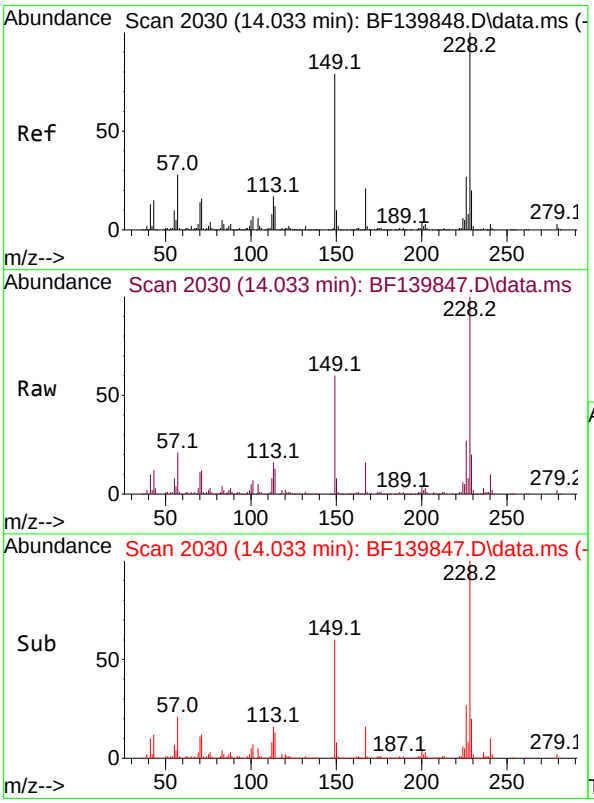
#83
Chrysene
Concen: 20.678 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 496447

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.1	36.1
229	20.1	15.8	23.6

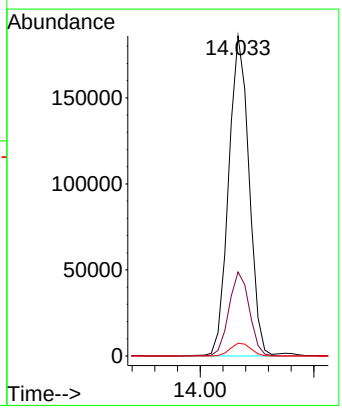


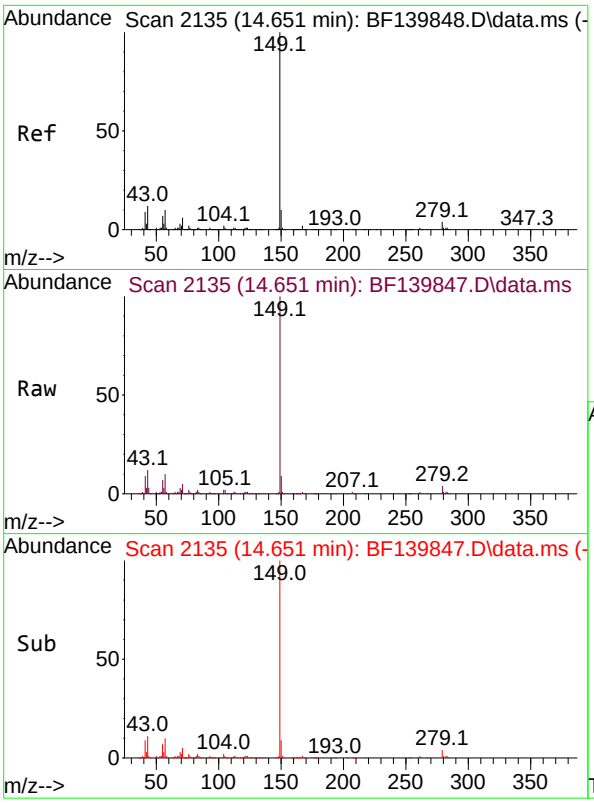


#84
Bis(2-ethylhexyl)phthalate
Concen: 19.606 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:149 Resp: 232200

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.4	32.0
279	4.0	3.0	4.4



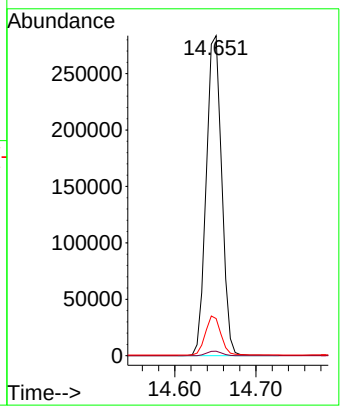


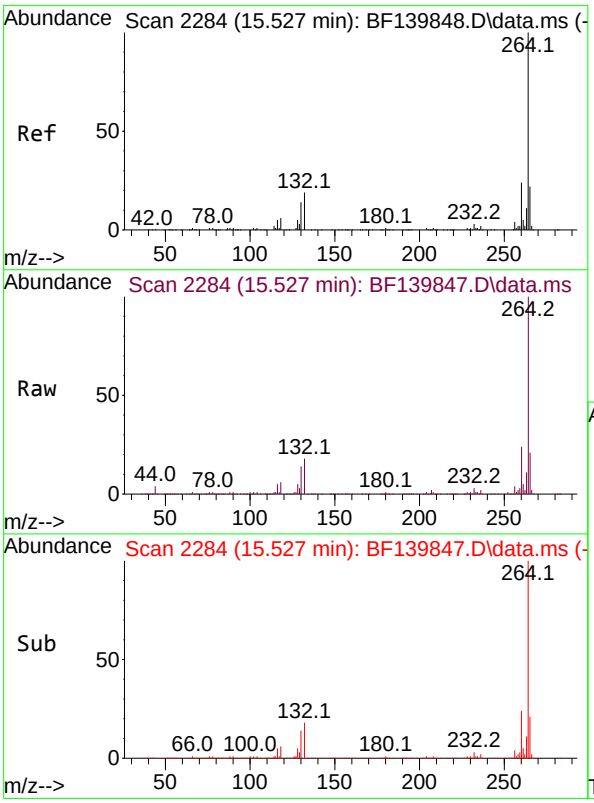
#85
Di-n-octyl phthalate
Concen: 17.359 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 373952

Ion	Ratio	Lower	Upper
149	100		
167	1.4	1.2	1.8
43	12.2	9.8	14.6

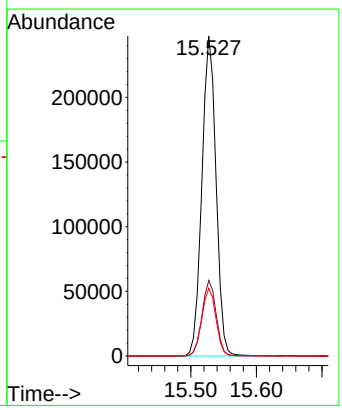


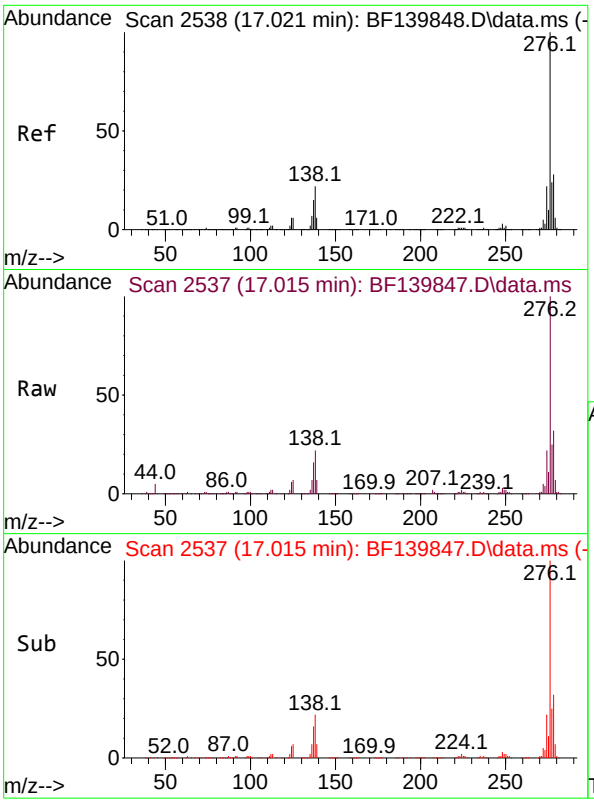


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:264 Resp: 371811

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.4	29.2
265	21.1	17.4	26.0



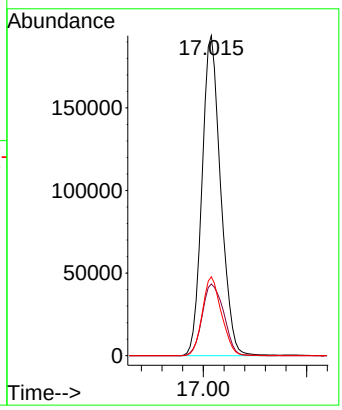


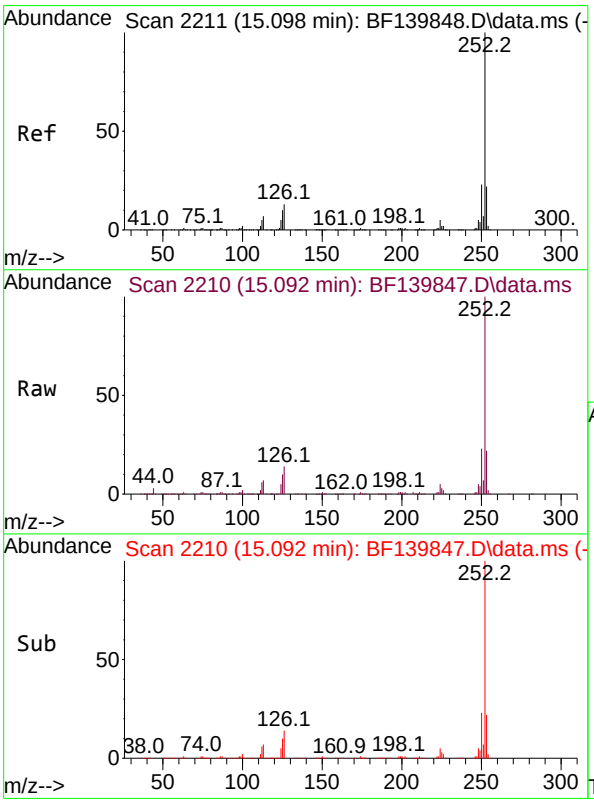
#87
Indeno(1,2,3-cd)pyrene
Concen: 20.312 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 485858

Ion	Ratio	Lower	Upper
276	100		
138	25.9	20.4	30.6
277	25.2	20.2	30.4

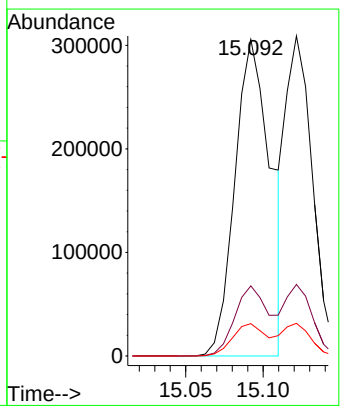


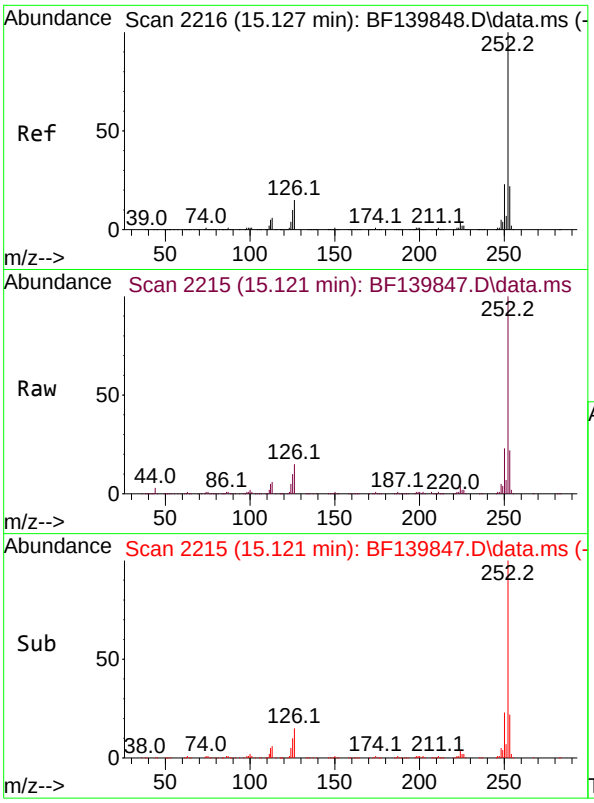


#88
Benzo(b)fluoranthene
Concen: 21.659 ng
RT: 15.092 min Scan# 2210
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:252 Resp: 490566

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	10.2	7.9	11.9



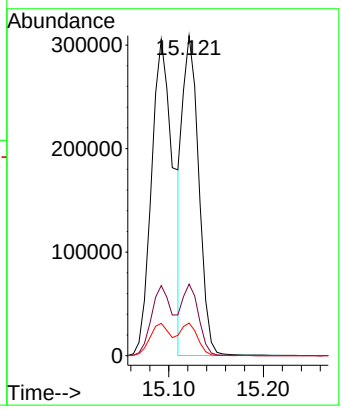


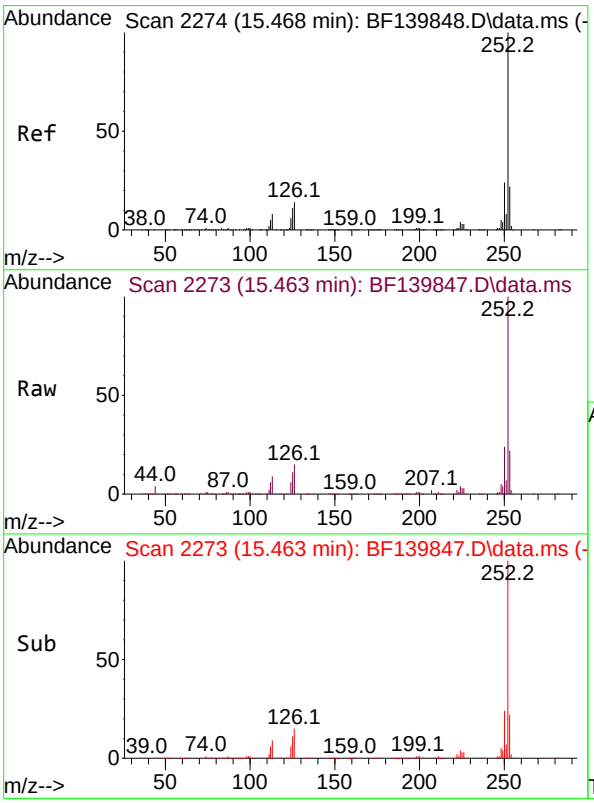
#89
Benzo(k)fluoranthene
Concen: 18.883 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 368835

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.6	26.4
125	10.2	7.9	11.9

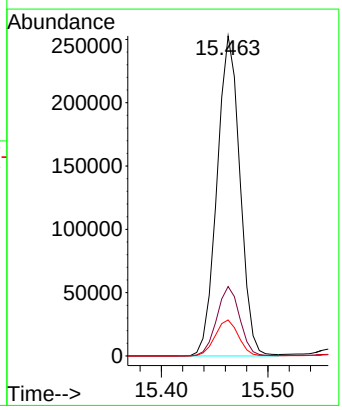


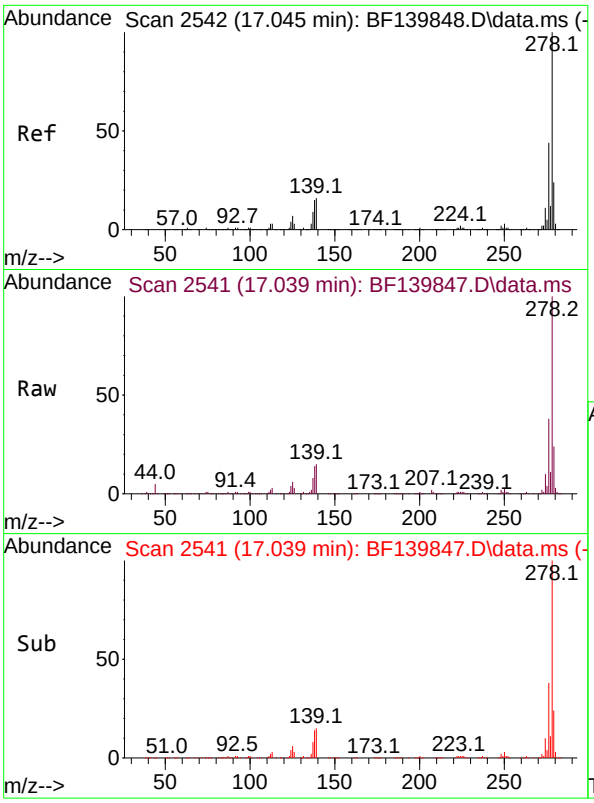


#90
Benzo(a)pyrene
Concen: 20.316 ng
RT: 15.463 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:252 Resp: 378617

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9
125	11.2	8.7	13.1



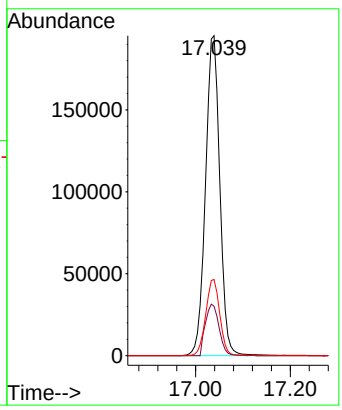


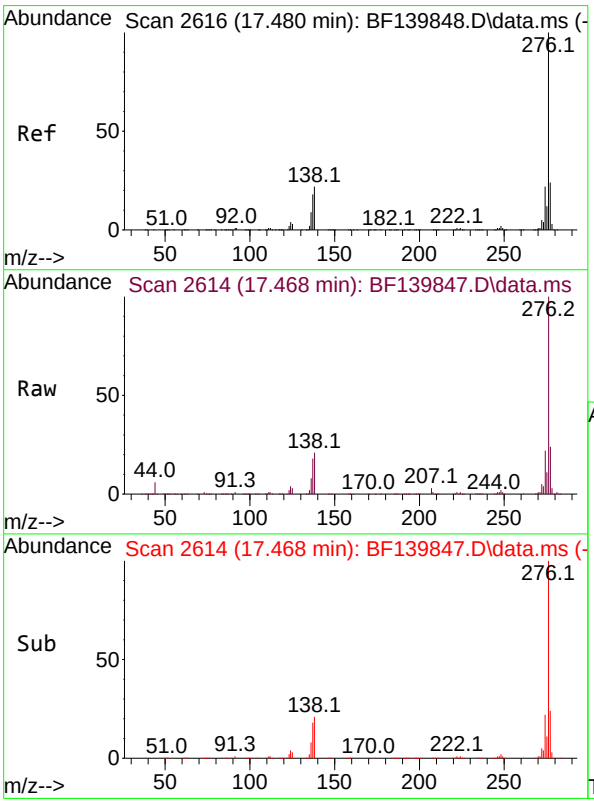
#91
Dibenzo(a,h)anthracene
Concen: 20.561 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 410285

Ion	Ratio	Lower	Upper
278	100		
139	15.4	13.1	19.7
279	23.8	19.0	28.4

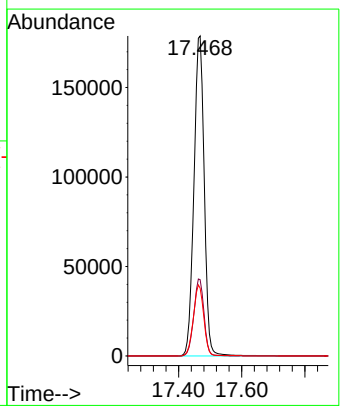




#92
Benzo(g,h,i)perylene
Concen: 20.326 ng
RT: 17.468 min Scan# 2614
Delta R.T. -0.012 min
Lab File: BF139847.D
Acq: 18 Oct 2024 11:52

Tgt Ion:276 Resp: 405140

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.0	28.6
138	21.2	17.4	26.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139848.D
Acq On : 18 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:18:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	181899	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	688880	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	379753	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	663459	20.000	ng	0.00
76) Chrysene-d12	14.051	240	345800	20.000	ng	0.00
86) Perylene-d12	15.527	264	365076	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	929569	80.002	ng	0.00
7) Phenol-d6	6.510	99	1197998	79.607	ng	0.00
23) Nitrobenzene-d5	7.451	82	1021808	82.209	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	285205	80.292	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	1764495	76.791	ng	0.00
79) Terphenyl-d14	12.998	244	1721125	81.103	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.687	88	214958	39.679	ng	100
3) Pyridine	3.446	79	547145	40.746	ng	100
4) n-Nitrosodimethylamine	3.398	42	293138	40.631	ng	100
6) Aniline	6.551	93	575402	41.026	ng	100
8) 2-Chlorophenol	6.675	128	476614	40.124	ng	100
9) Benzaldehyde	6.439	77	341959	40.393	ng	100
10) Phenol	6.522	94	622748m	39.429	ng	
11) bis(2-Chloroethyl)ether	6.628	93	470765	39.258	ng	100
12) 1,3-Dichlorobenzene	6.834	146	545252	39.988	ng	100
13) 1,4-Dichlorobenzene	6.910	146	541068	39.718	ng	100
14) 1,2-Dichlorobenzene	7.063	146	501857	39.473	ng	100
15) Benzyl Alcohol	7.028	79	441461	39.991	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.169	45	820216	40.113	ng	100
17) 2-Methylphenol	7.133	107	405109	39.996	ng	100
18) Hexachloroethane	7.404	117	196637	40.478	ng	100
19) n-Nitroso-di-n-propyla...	7.304	70	354454	38.835	ng	100
20) 3+4-Methylphenols	7.286	107	515857	39.818	ng	100
22) Acetophenone	7.298	105	663304	39.312	ng	100
24) Nitrobenzene	7.475	77	555115	40.735	ng	100
25) Isophorone	7.710	82	935400	39.651	ng	100
26) 2-Nitrophenol	7.786	139	216916	42.193	ng	100
27) 2,4-Dimethylphenol	7.816	122	341985	39.894	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	567188	39.683	ng	100
29) 2,4-Dichlorophenol	8.022	162	390330	39.976	ng	100
30) 1,2,4-Trichlorobenzene	8.116	180	434274	40.195	ng	100
31) Naphthalene	8.198	128	1409796	39.681	ng	100
32) Benzoic acid	7.922	122	302443	40.451	ng	100
33) 4-Chloroaniline	8.239	127	483982	39.950	ng	100
34) Hexachlorobutadiene	8.316	225	271315	39.967	ng	100
35) Caprolactam	8.610	113	126585	40.772	ng	100
36) 4-Chloro-3-methylphenol	8.710	107	433727	40.116	ng	100
37) 2-Methylnaphthalene	8.886	142	856111	39.345	ng	100
38) 1-Methylnaphthalene	8.986	142	842638	39.471	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	407511	39.776	ng	100
41) Hexachlorocyclopentadiene	9.039	237	150540	42.229	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	293577	40.474	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139848.D
Acq On : 18 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 18 14:18:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	304213	40.651	ng	100
46) 1,1'-Biphenyl	9.351	154	1047094	39.608	ng	100
47) 2-Chloronaphthalene	9.375	162	843452	39.613	ng	100
48) 2-Nitroaniline	9.463	65	277165	42.562	ng	100
49) Acenaphthylene	9.792	152	1226273	39.837	ng	100
50) Dimethylphthalate	9.651	163	939670	39.726	ng	100
51) 2,6-Dinitrotoluene	9.710	165	212956	41.580	ng	100
52) Acenaphthene	9.963	154	792756	39.811	ng	100
53) 3-Nitroaniline	9.874	138	222098	42.051	ng	100
54) 2,4-Dinitrophenol	9.974	184	76948	39.739	ng	100
55) Dibenzofuran	10.133	168	1128670	39.505	ng	100
56) 4-Nitrophenol	10.022	139	175913	43.292	ng	100
57) 2,4-Dinitrotoluene	10.110	165	270604	42.965	ng	100
58) Fluorene	10.474	166	843048	38.742	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	235175	40.087	ng	100
60) Diethylphthalate	10.351	149	922384	39.715	ng	100
61) 4-Chlorophenyl-phenyle...	10.469	204	432393	39.347	ng	100
62) 4-Nitroaniline	10.486	138	208926	41.884	ng	100
63) Azobenzene	10.627	77	991989	40.289	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	115824	42.799	ng	100
66) n-Nitrosodiphenylamine	10.586	169	789753	39.772	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	268509	39.285	ng	100
68) Hexachlorobenzene	11.021	284	306919	39.927	ng	100
69) Atrazine	11.110	200	232078	43.145	ng	100
70) Pentachlorophenol	11.210	266	201559	43.204	ng	100
71) Phenanthrene	11.439	178	1238155	39.508	ng	100
72) Anthracene	11.492	178	1211718	39.628	ng	100
73) Carbazole	11.639	167	1122566	39.475	ng	100
74) Di-n-butylphthalate	11.974	149	1345878	40.965	ng	100
75) Fluoranthene	12.627	202	1251202	39.493	ng	100
77) Benzidine	12.745	184	252893	44.967	ng	100
78) Pyrene	12.857	202	1248309	41.241	ng	100
80) Butylbenzylphthalate	13.474	149	383831	42.297	ng	100
81) Benzo(a)anthracene	14.039	228	920698	40.901	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	267769	40.798	ng	100
83) Chrysene	14.080	228	806950	39.098	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	432750	42.504	ng	100
85) Di-n-octyl phthalate	14.651	149	785179	42.399	ng	100
87) Indeno(1,2,3-cd)pyrene	17.021	276	987345	42.039	ng	100
88) Benzo(b)fluoranthene	15.098	252	873168	39.263	ng	100
89) Benzo(k)fluoranthene	15.127	252	778470	40.589	ng	100
90) Benzo(a)pyrene	15.468	252	748507	40.905	ng	100
91) Dibenzo(a,h)anthracene	17.045	278	818044	41.752	ng	100
92) Benzo(g,h,i)perylene	17.480	276	823727	42.090	ng	100

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

ICAL Form

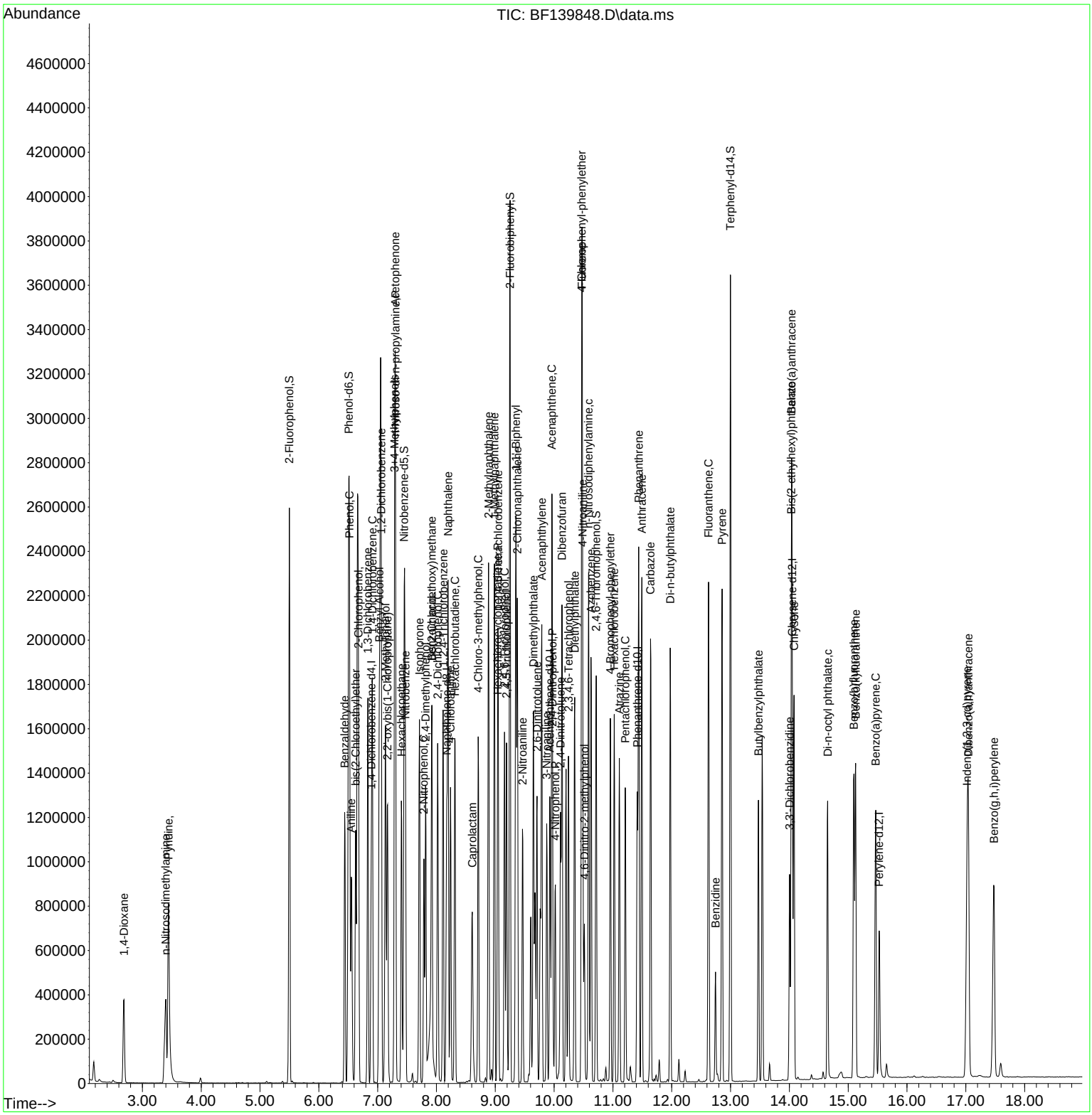
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139848.D
Acq On : 18 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

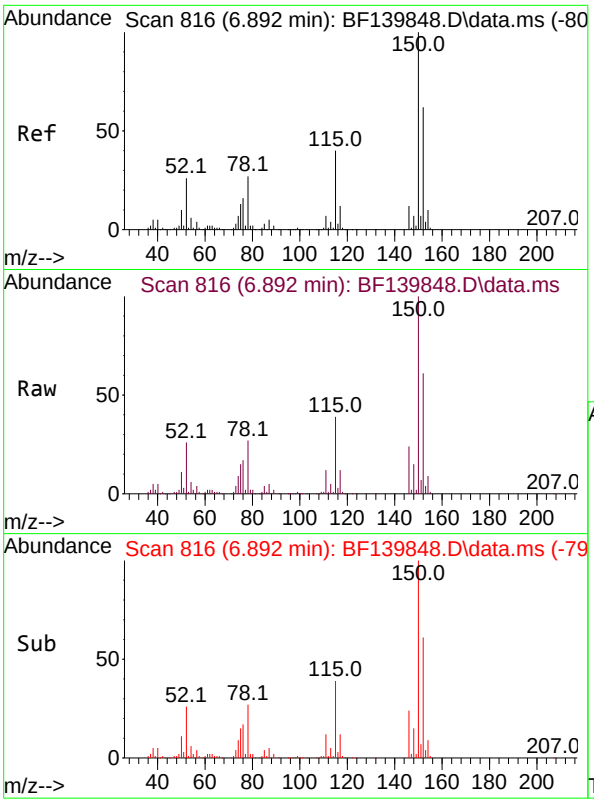
Quant Time: Oct 18 14:18:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

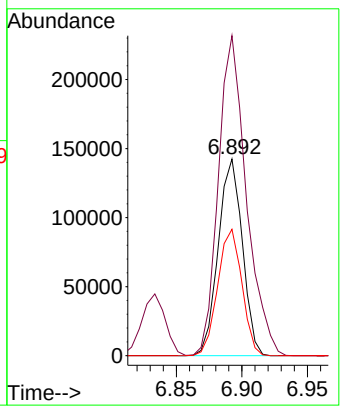




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:152 Resp: 18189

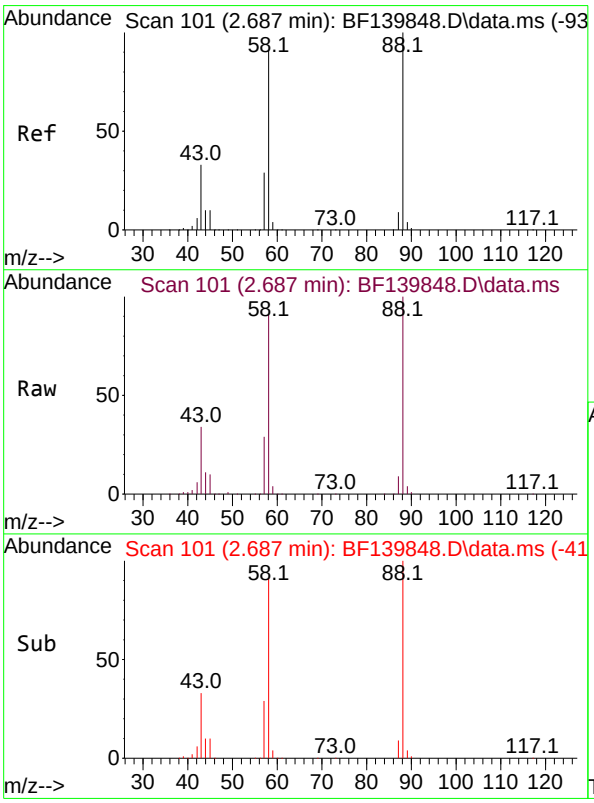
Ion	Ratio	Lower	Upper
152	100		
150	162.7	130.2	195.2
115	64.3	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

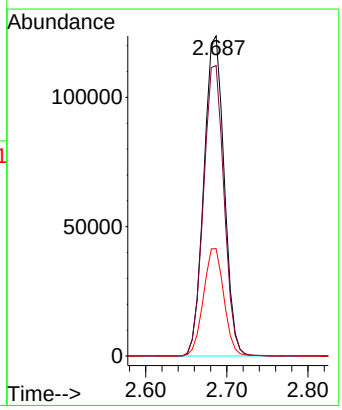
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

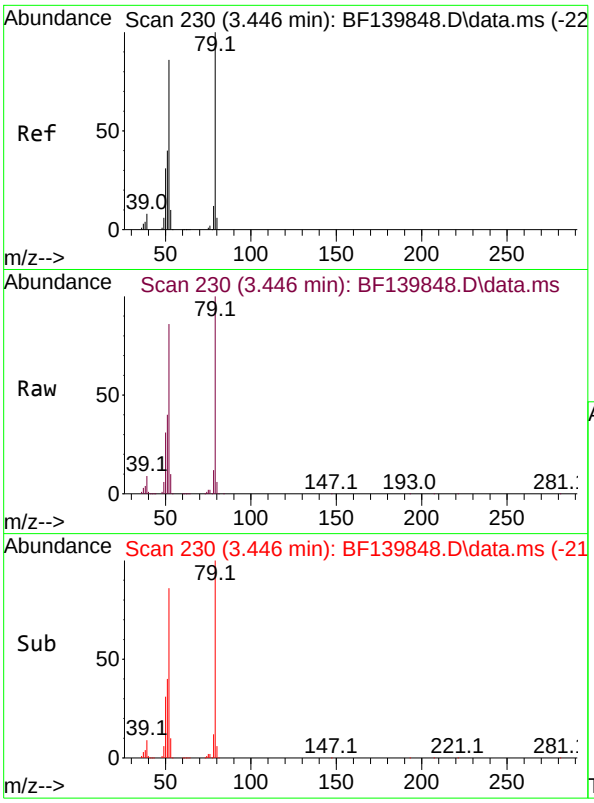


#2
1,4-Dioxane
Concen: 39.679 ng
RT: 2.687 min Scan# 101
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 88 Resp: 214958

Ion	Ratio	Lower	Upper
88	100		
58	91.6	73.3	109.9
43	33.9	27.1	40.7

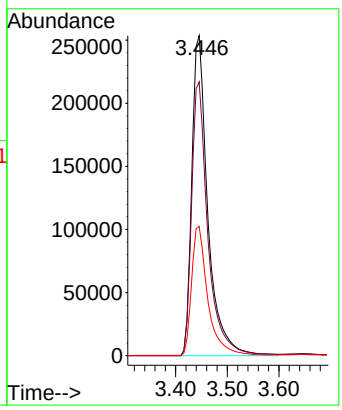




#3
Pyridine
Concen: 40.746 ng
RT: 3.446 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 79 Resp: 54714

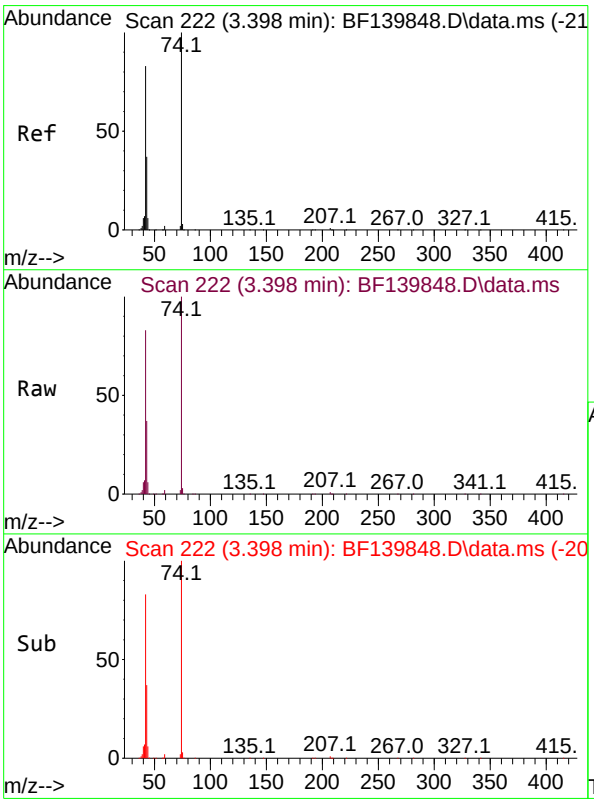
Ion	Ratio	Lower	Upper
79	100		
52	85.6	68.5	102.7
51	40.4	32.3	48.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

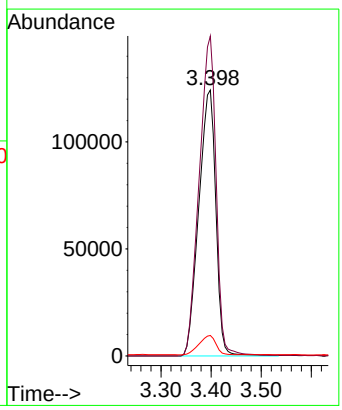
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

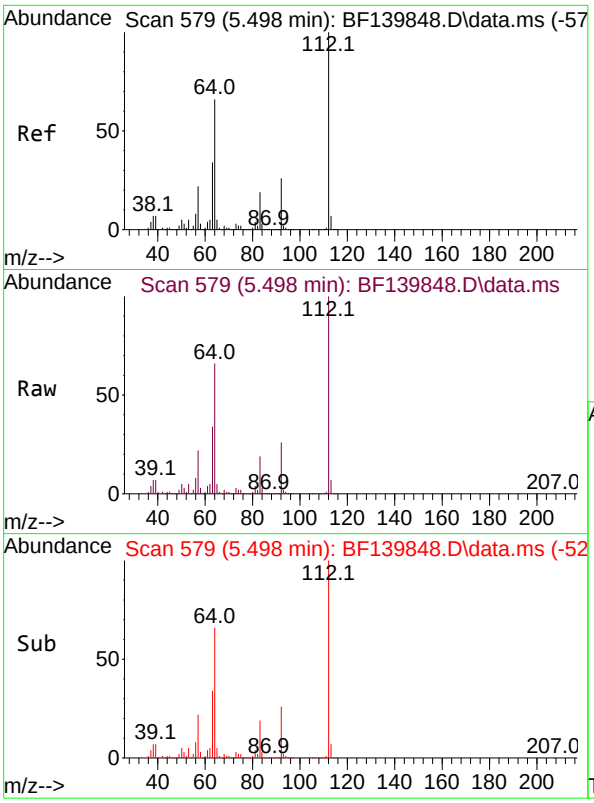


#4
n-Nitrosodimethylamine
Concen: 40.631 ng
RT: 3.398 min Scan# 222
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 42 Resp: 293138

Ion	Ratio	Lower	Upper
42	100		
74	120.3	96.2	144.4
44	7.7	6.2	9.2

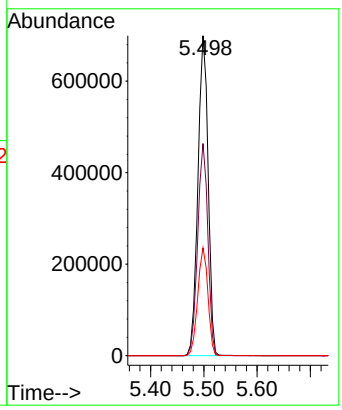




#5
2-Fluorophenol
Concen: 80.002 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:112 Resp: 92956

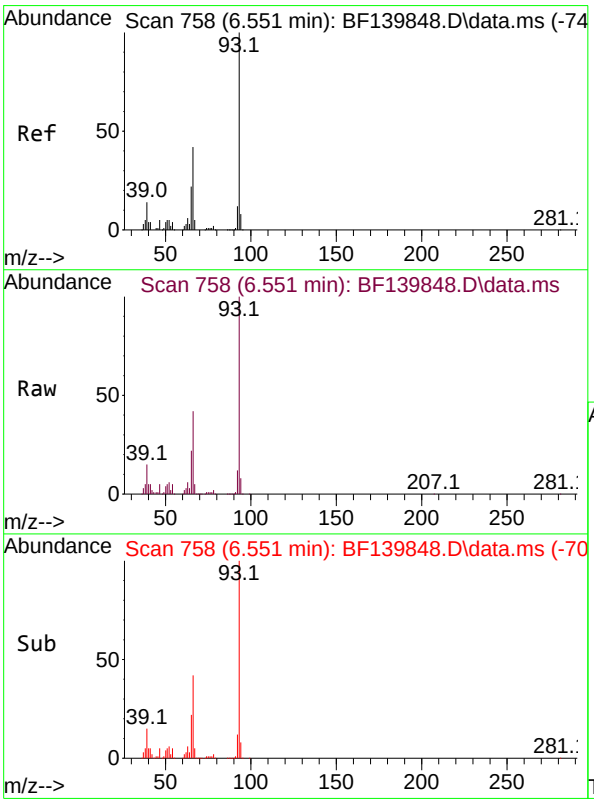
Ion	Ratio	Lower	Upper
112	100		
64	66.3	53.0	79.6
63	33.7	27.0	40.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

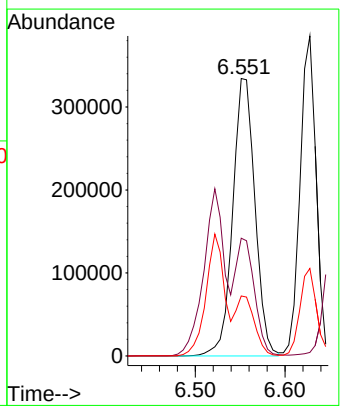
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

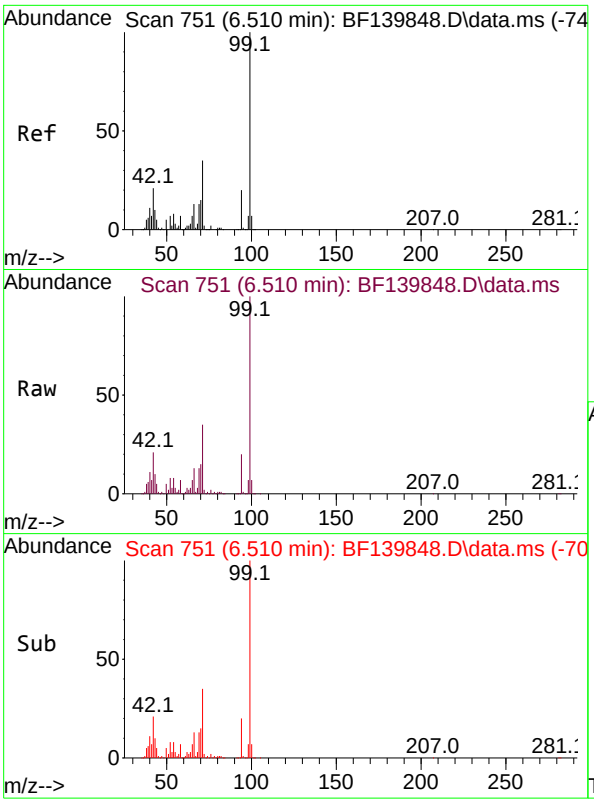


#6
Aniline
Concen: 41.026 ng
RT: 6.551 min Scan# 758
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 93 Resp: 575402

Ion	Ratio	Lower	Upper
93	100		
66	42.5	34.0	51.0
65	21.7	17.4	26.0

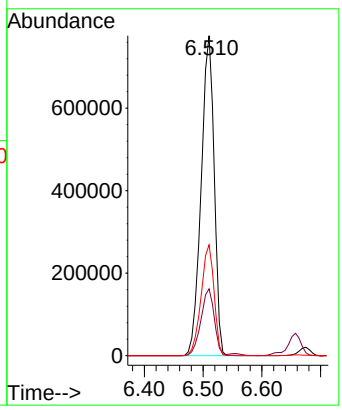




#7
Phenol-d6
Concen: 79.607 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 99 Resp: 119799

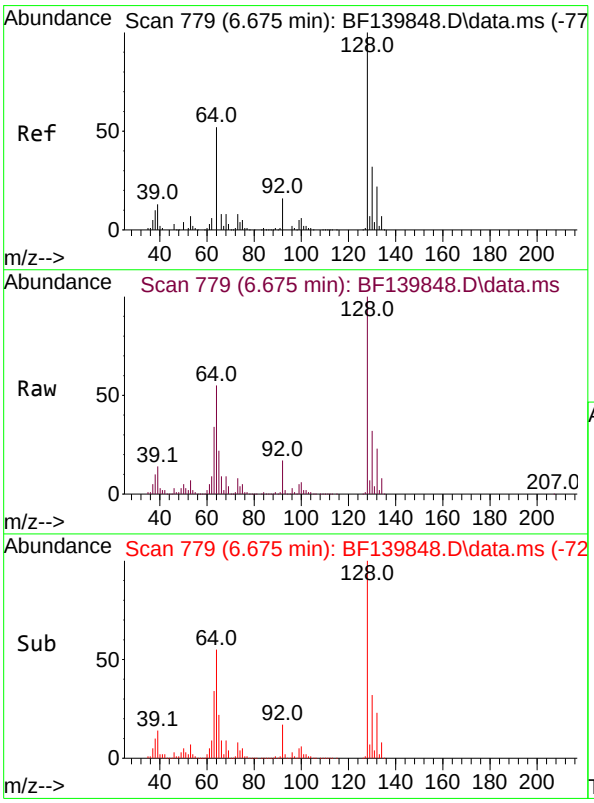
Ion	Ratio	Lower	Upper
99	100		
42	20.9	16.7	25.1
71	34.6	27.7	41.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

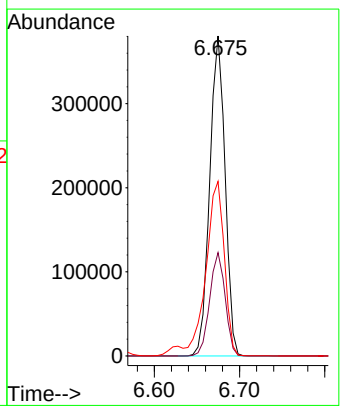
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

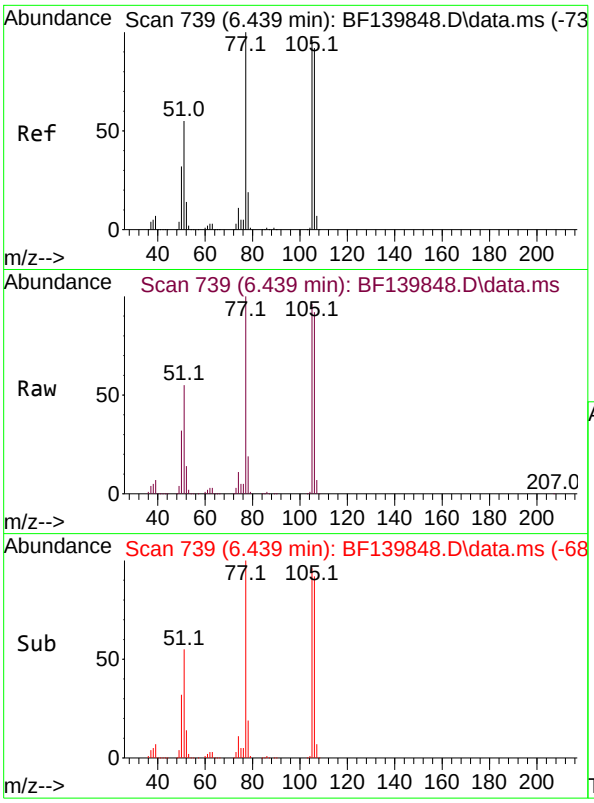


#8
2-Chlorophenol
Concen: 40.124 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:128 Resp: 476614

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.3	52.3
64	54.6	34.6	74.6

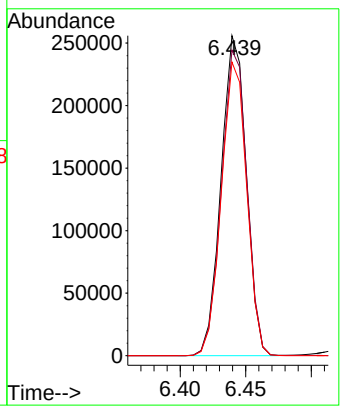




#9
Benzaldehyde
Concen: 40.393 ng
RT: 6.439 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 77 Resp: 34195

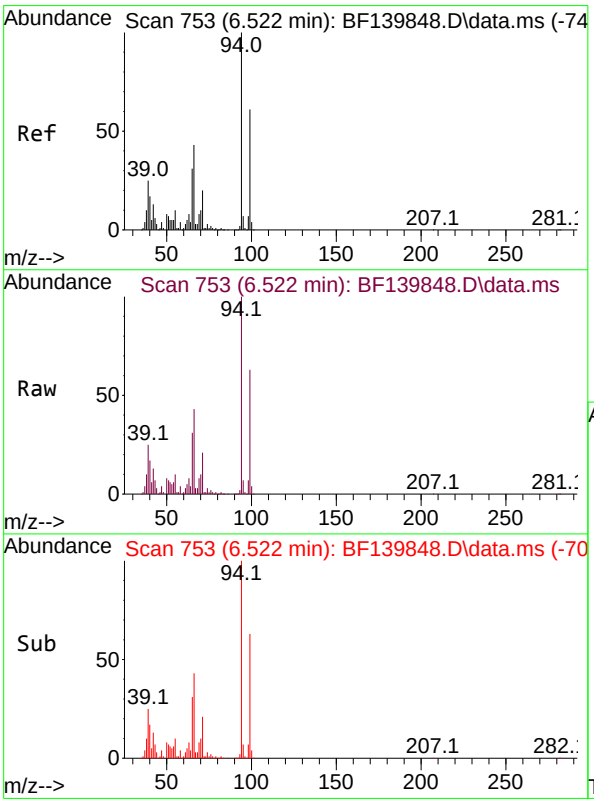
Ion	Ratio	Lower	Upper
77	100		
105	95.5	75.5	115.5
106	91.7	71.7	111.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

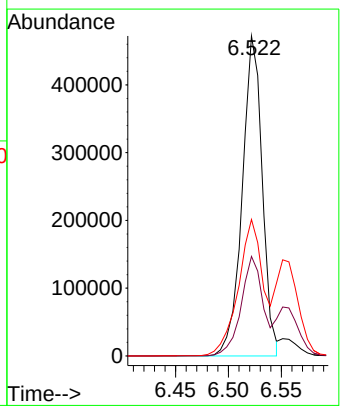
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

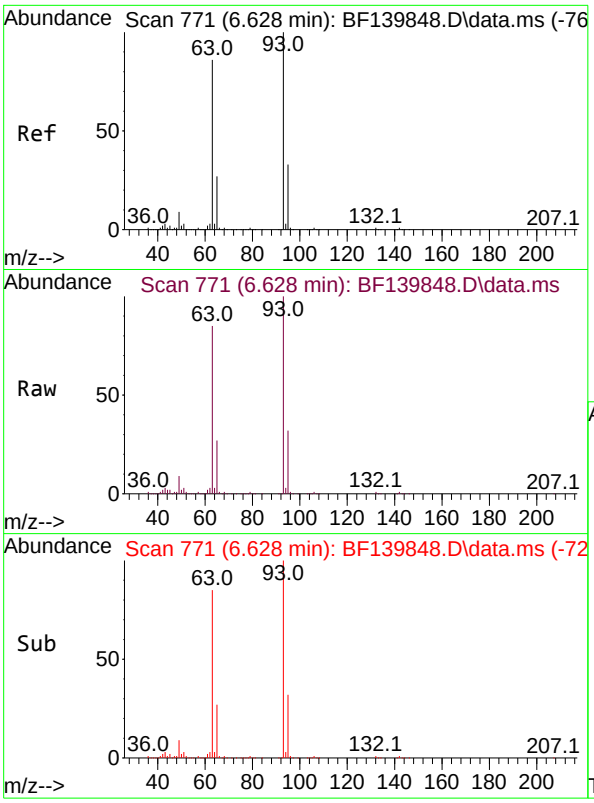


#10
Phenol
Concen: 39.429 ng m
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 94 Resp: 622748

Ion	Ratio	Lower	Upper
94	100		
65	31.1	11.1	51.1
66	42.7	22.7	62.7





#11
bis(2-Chloroethyl)ether
Concen: 39.258 ng
RT: 6.628 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

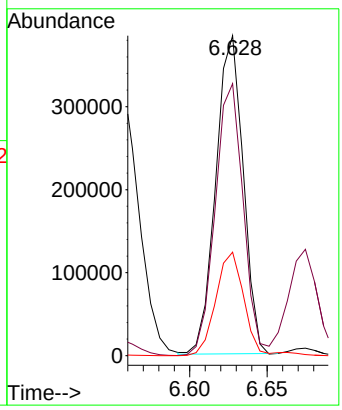
Tgt Ion: 93 Resp: 47076

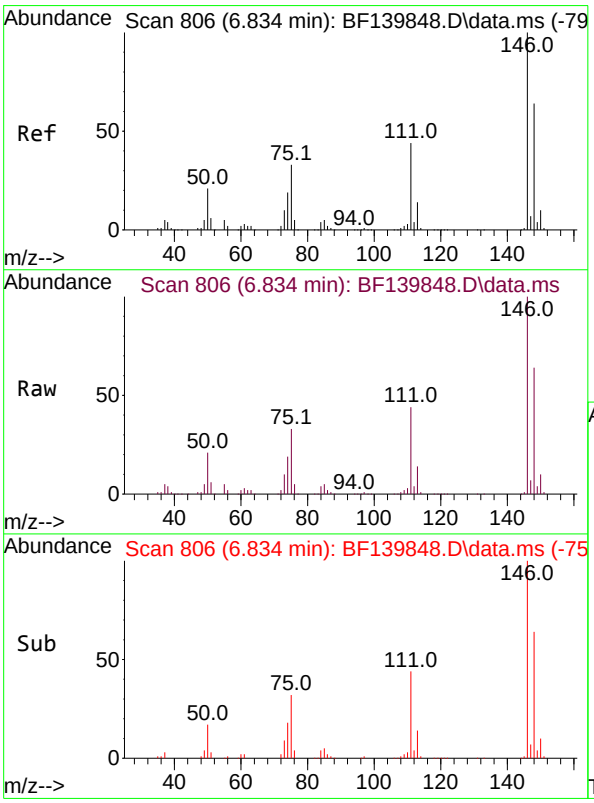
Ion	Ratio	Lower	Upper
93	100		
63	85.0	65.0	105.0
95	32.4	12.4	52.4

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

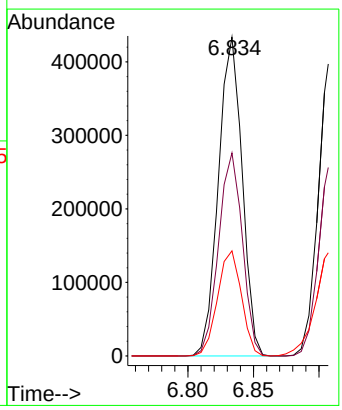


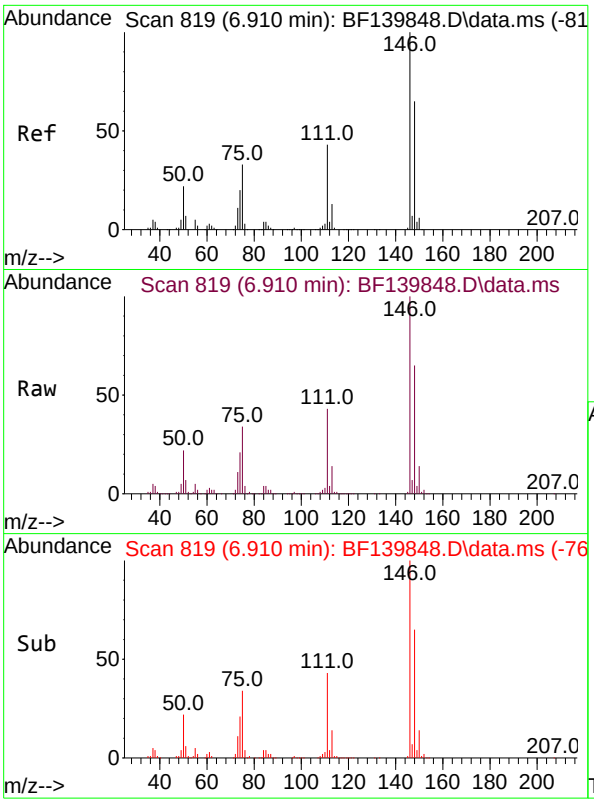


#12
1,3-Dichlorobenzene
Concen: 39.988 ng
RT: 6.834 min Scan# 806
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:146 Resp: 545252

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.0	76.4
75	33.0	26.4	39.6

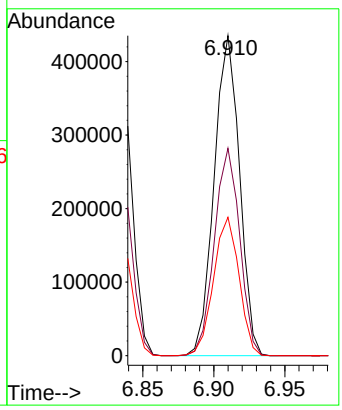




#13
1,4-Dichlorobenzene
Concen: 39.718 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:146 Resp: 54106

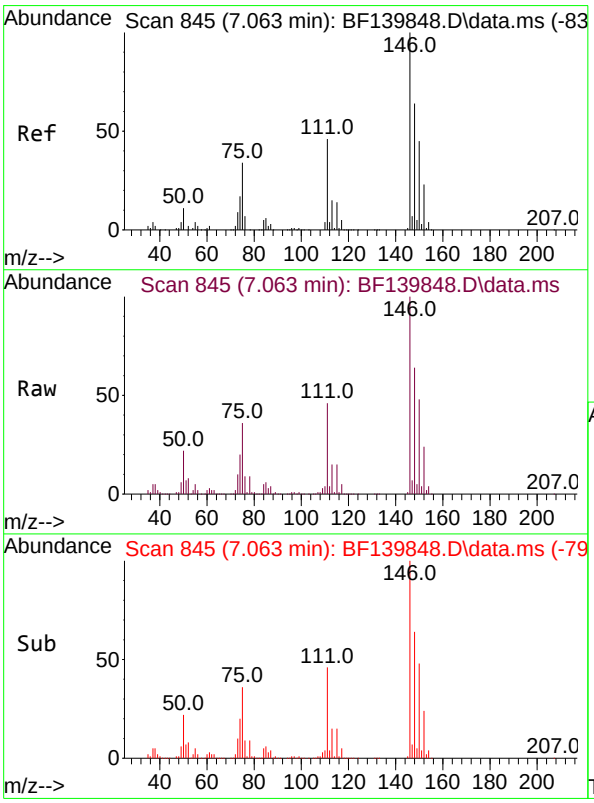
Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.8	77.8
111	43.2	34.6	51.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

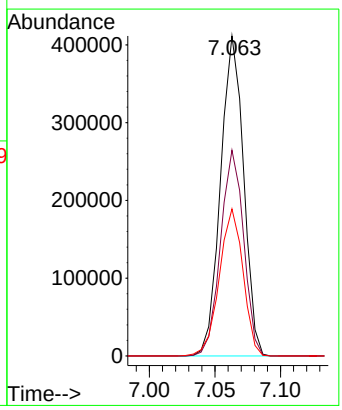
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

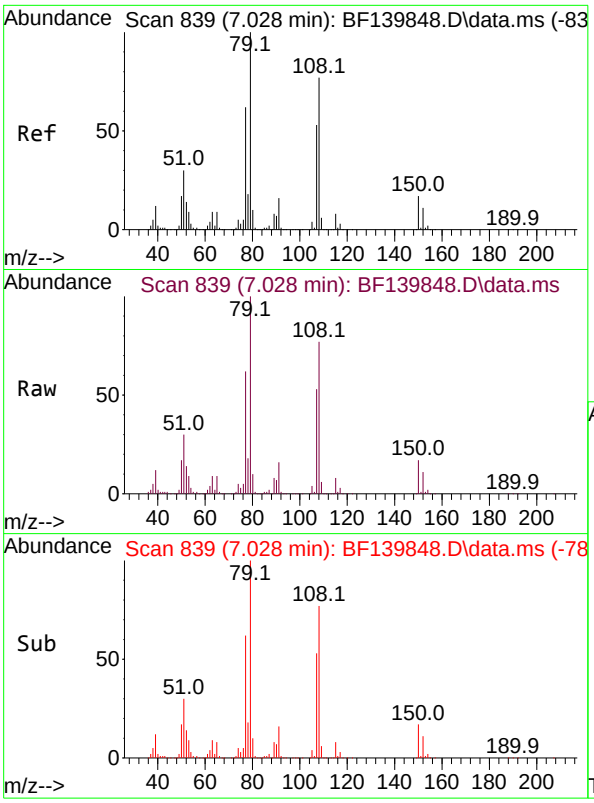


#14
1,2-Dichlorobenzene
Concen: 39.473 ng
RT: 7.063 min Scan# 845
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:146 Resp: 501857

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.4	77.2
111	45.9	36.7	55.1

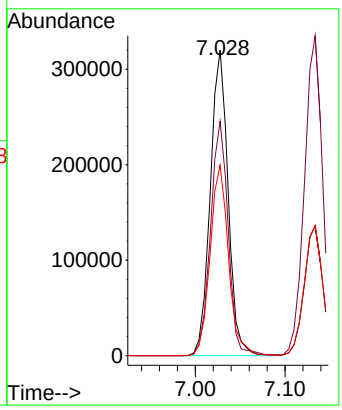




#15
Benzyl Alcohol
Concen: 39.991 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 79 Resp: 44146

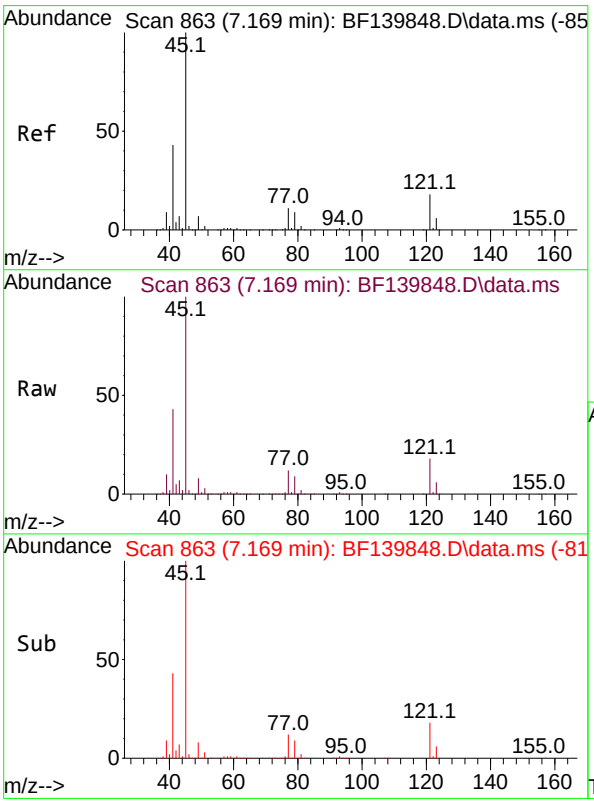
Ion	Ratio	Lower	Upper
79	100		
108	76.7	61.4	92.0
77	62.4	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

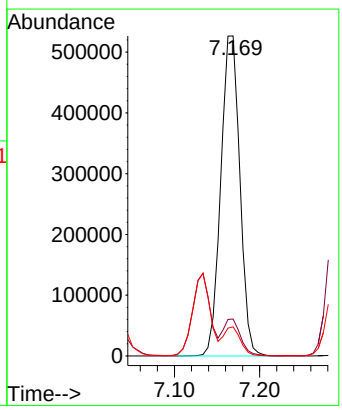
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

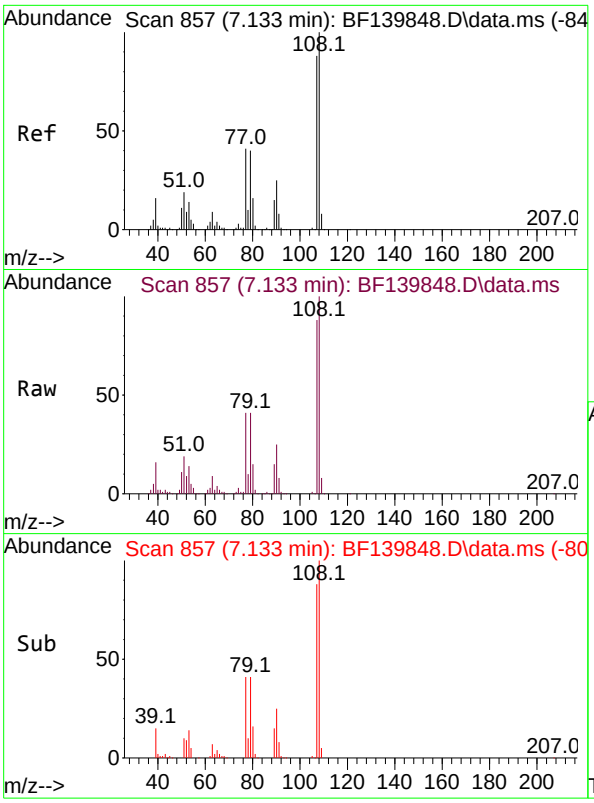


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.113 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 45 Resp: 820216

Ion	Ratio	Lower	Upper
45	100		
77	11.5	0.0	31.5
79	9.1	0.0	29.1

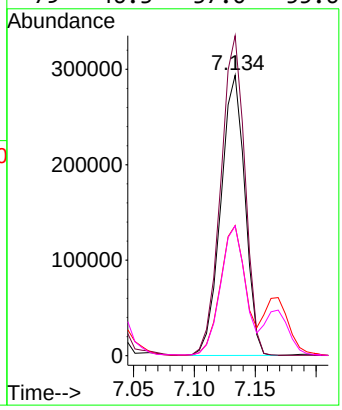




#17
2-Methylphenol
Concen: 39.996 ng
RT: 7.133 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:107 Resp: 40510

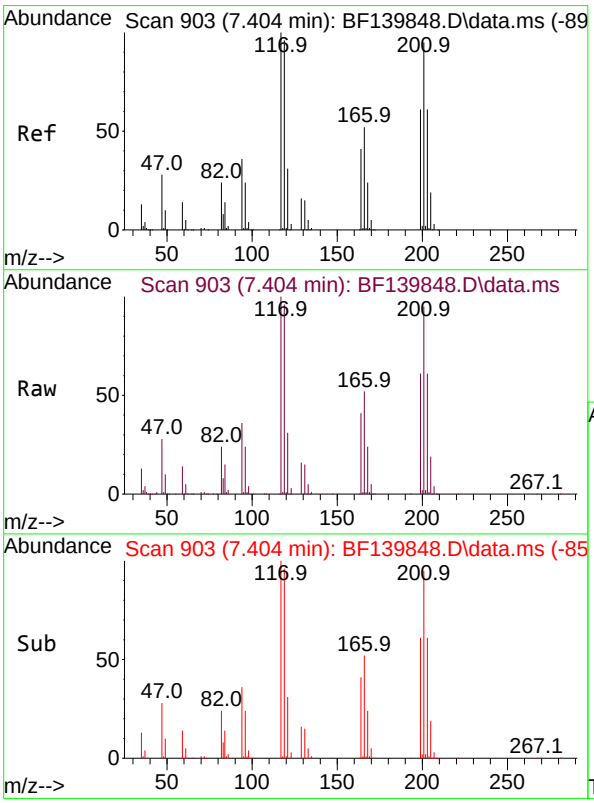
Ion	Ratio	Lower	Upper
107	100		
108	114.1	91.3	136.9
77	46.4	37.1	55.7
79	46.3	37.0	55.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

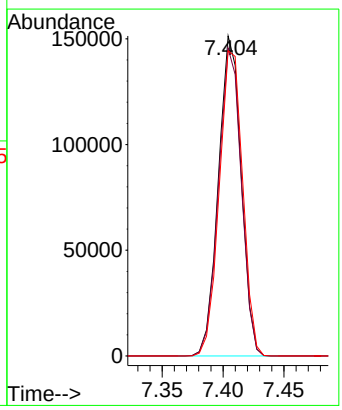
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

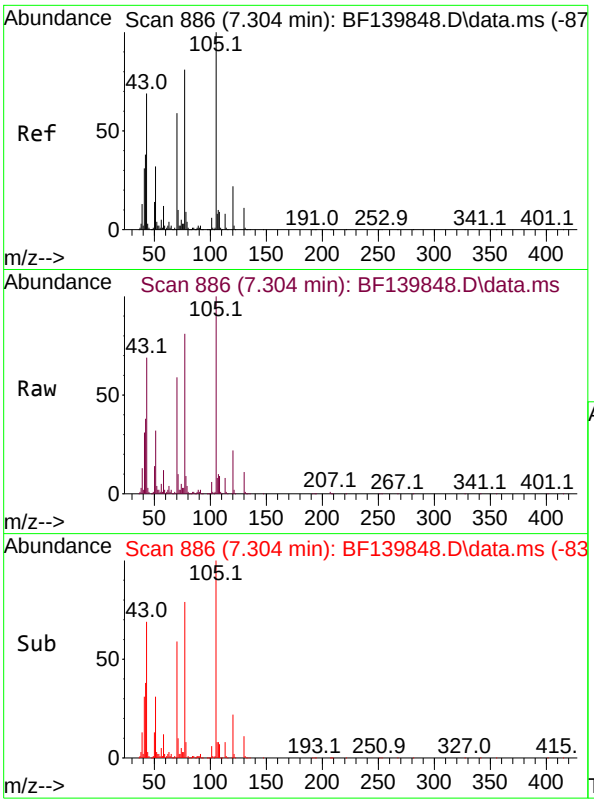


#18
Hexachloroethane
Concen: 40.478 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:117 Resp: 196637

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.0	115.4
201	95.3	76.2	114.4

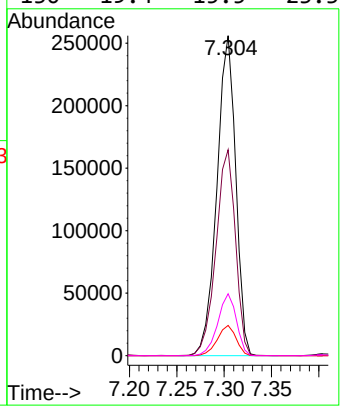




#19
n-Nitroso-di-n-propylamine
Concen: 38.835 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 70 Resp: 35445

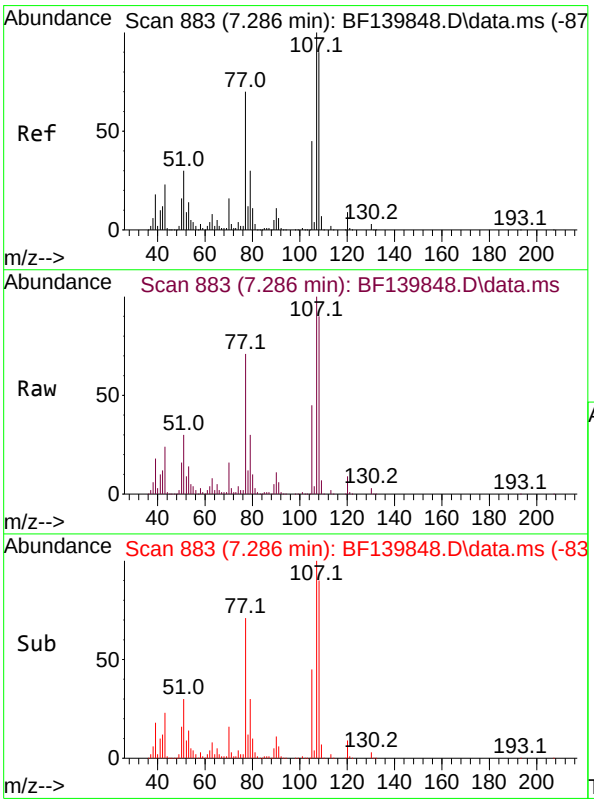
Ion	Ratio	Lower	Upper
70	100		
42	64.4	51.5	77.3
101	9.4	7.5	11.3
130	19.4	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

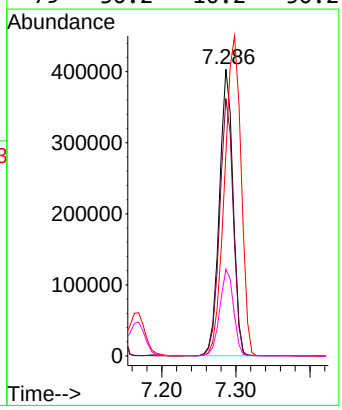
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

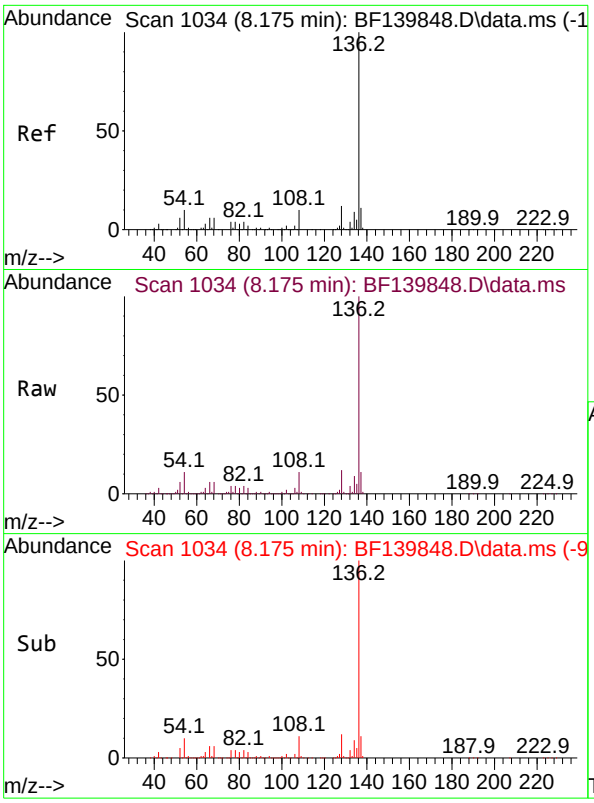


#20
3+4-Methylphenols
Concen: 39.818 ng
RT: 7.286 min Scan# 883
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:107 Resp: 515857

Ion	Ratio	Lower	Upper
107	100		
108	89.8	69.8	109.8
77	70.5	50.5	90.5
79	30.2	10.2	50.2

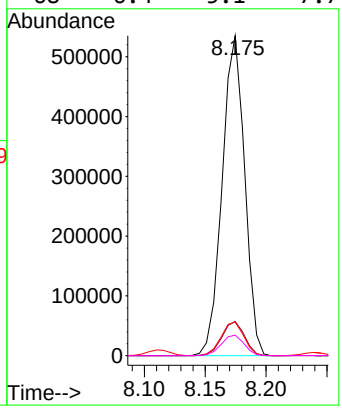




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:136 Resp: 68888

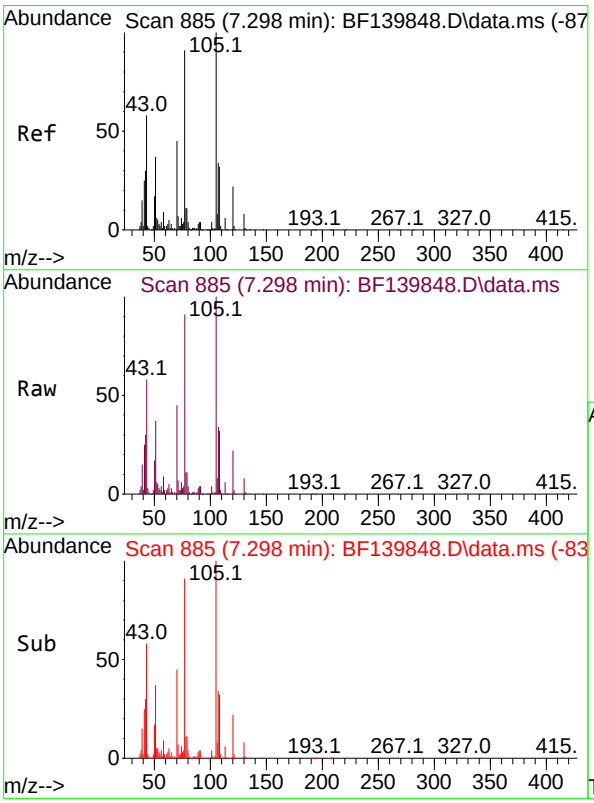
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	10.5	8.4	12.6
68	6.4	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

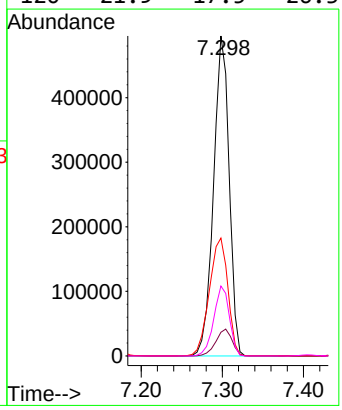
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

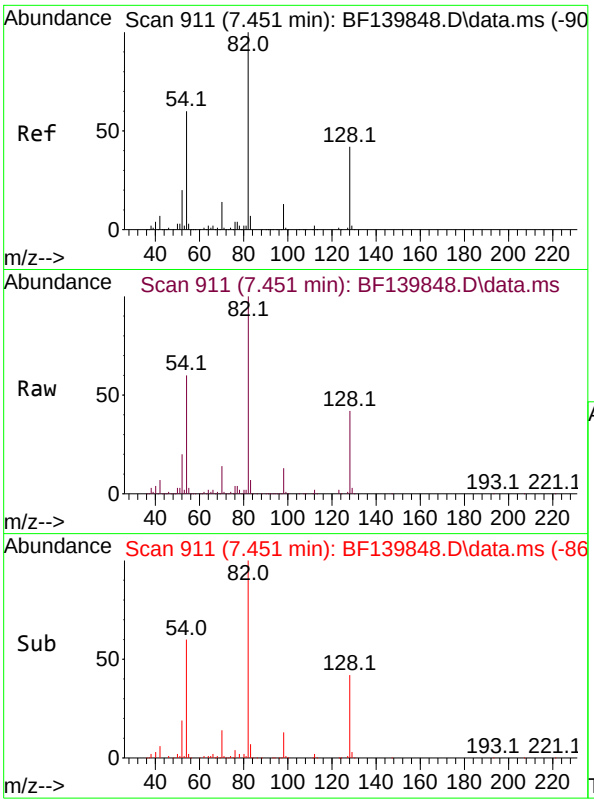


#22
Acetophenone
Concen: 39.312 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:105 Resp: 663304

Ion	Ratio	Lower	Upper
105	100		
71	7.4	5.9	8.9
51	36.8	29.4	44.2
120	21.9	17.5	26.3

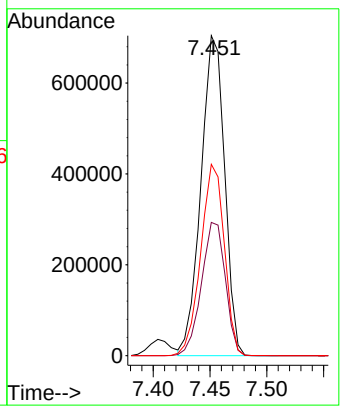




#23
Nitrobenzene-d5
Concen: 82.209 ng
RT: 7.451 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 82 Resp: 102180

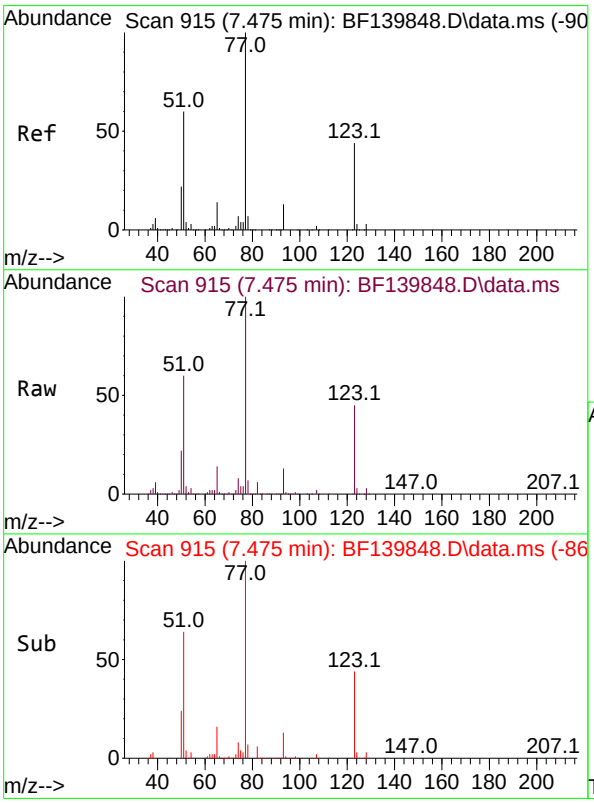
Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	59.8	47.8	71.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

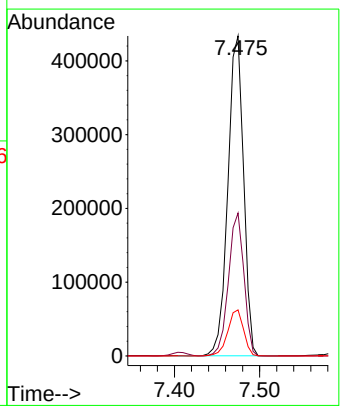
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

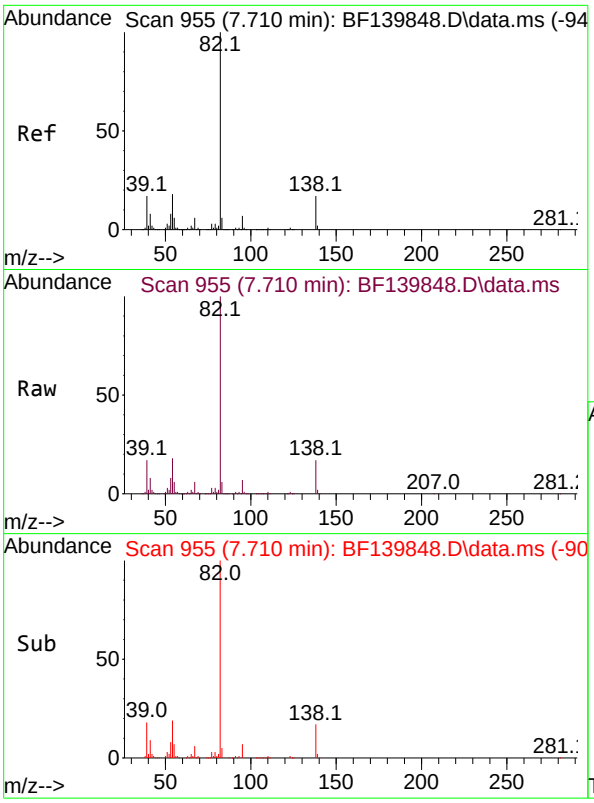


#24
Nitrobenzene
Concen: 40.735 ng
RT: 7.475 min Scan# 915
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 77 Resp: 555115

Ion	Ratio	Lower	Upper
77	100		
123	44.6	35.7	53.5
65	14.4	11.5	17.3

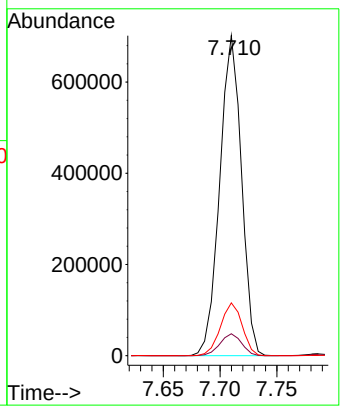




#25
Isophorone
Concen: 39.651 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 82 Resp: 93540

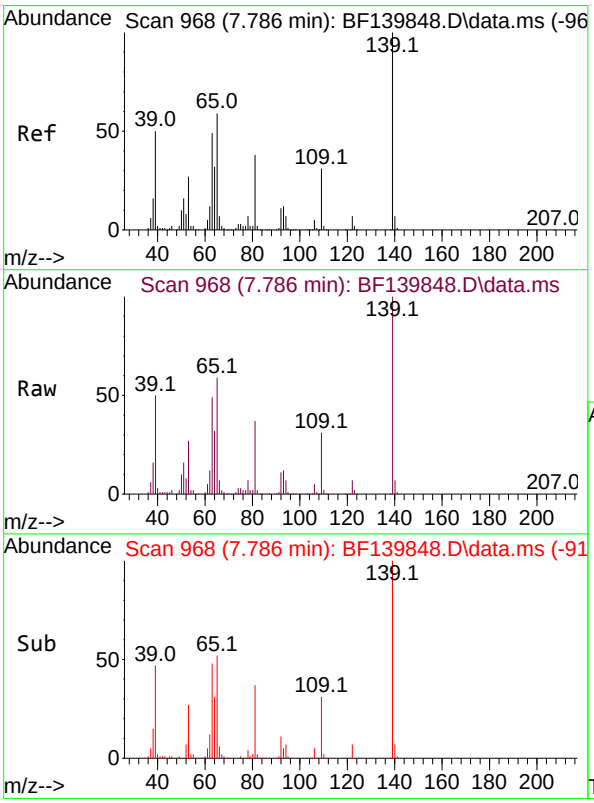
Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.5	8.3
138	16.5	13.2	19.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

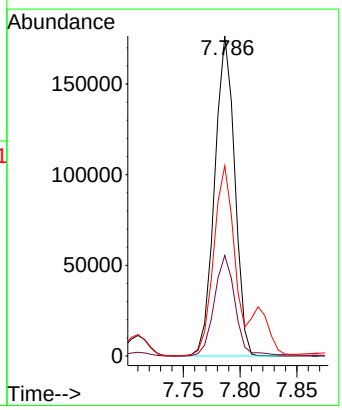
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

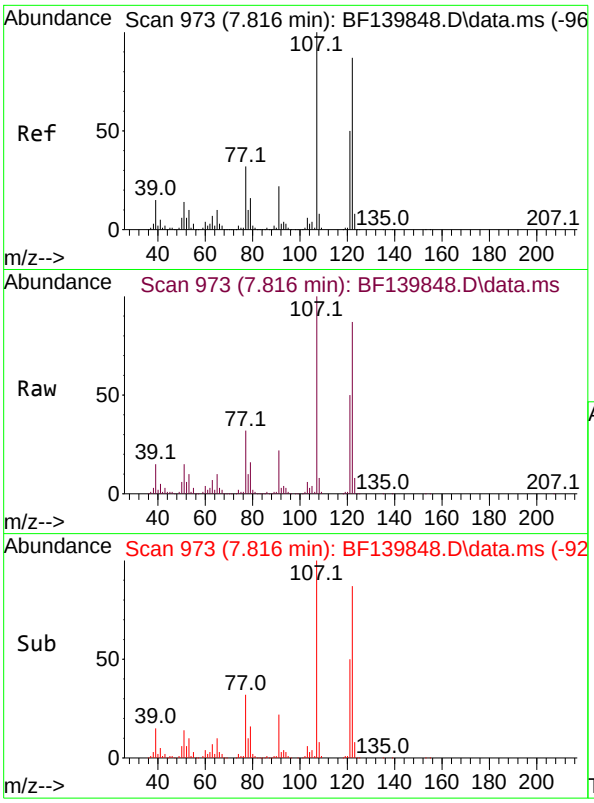


#26
2-Nitrophenol
Concen: 42.193 ng
RT: 7.786 min Scan# 968
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:139 Resp: 216916

Ion	Ratio	Lower	Upper
139	100		
109	31.4	25.1	37.7
65	59.4	47.5	71.3

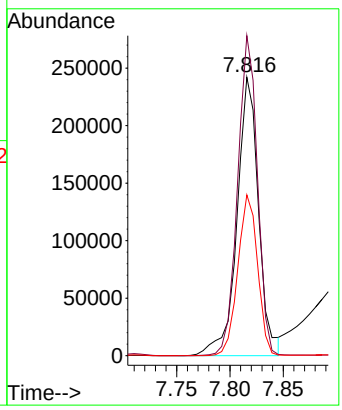




#27
2,4-Dimethylphenol
Concen: 39.894 ng
RT: 7.816 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:122 Resp: 34198

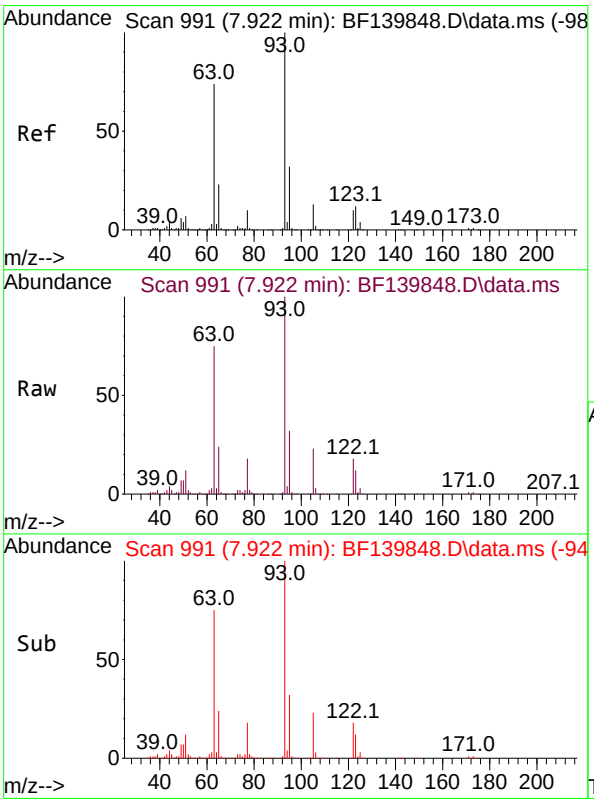
Ion	Ratio	Lower	Upper
122	100		
107	114.9	91.9	137.9
121	57.8	46.2	69.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

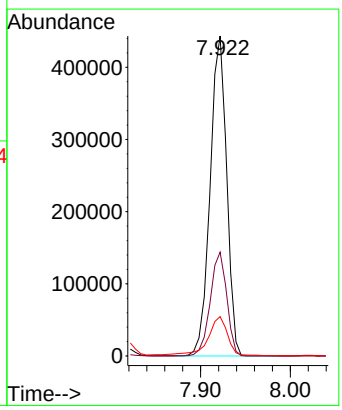
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

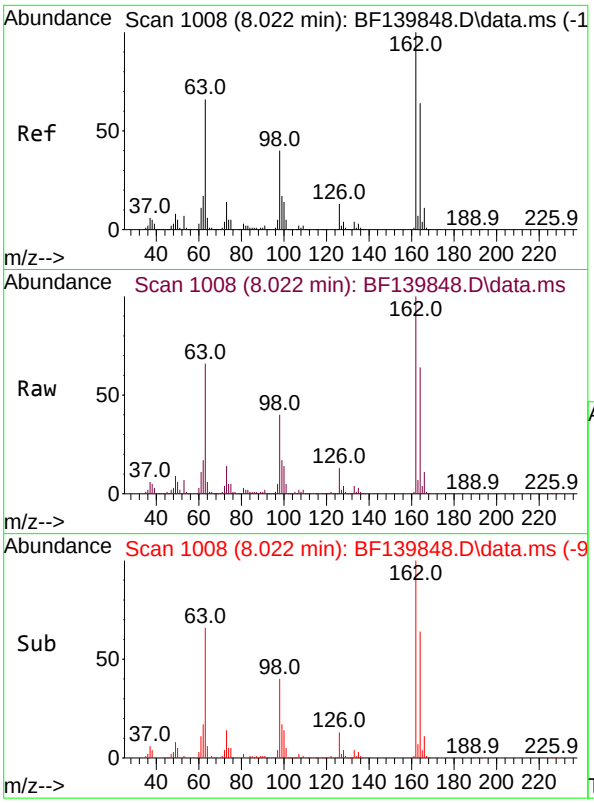


#28
bis(2-Chloroethoxy)methane
Concen: 39.683 ng
RT: 7.922 min Scan# 991
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 93 Resp: 567188

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.0	39.0
123	12.3	9.8	14.8

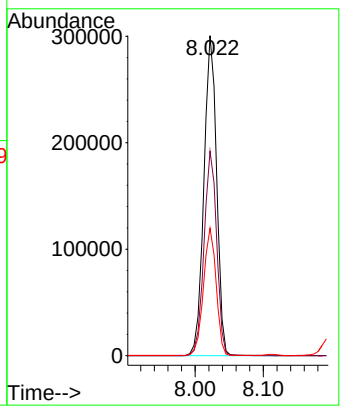




#29
2,4-Dichlorophenol
Concen: 39.976 ng
RT: 8.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:162 Resp: 39033

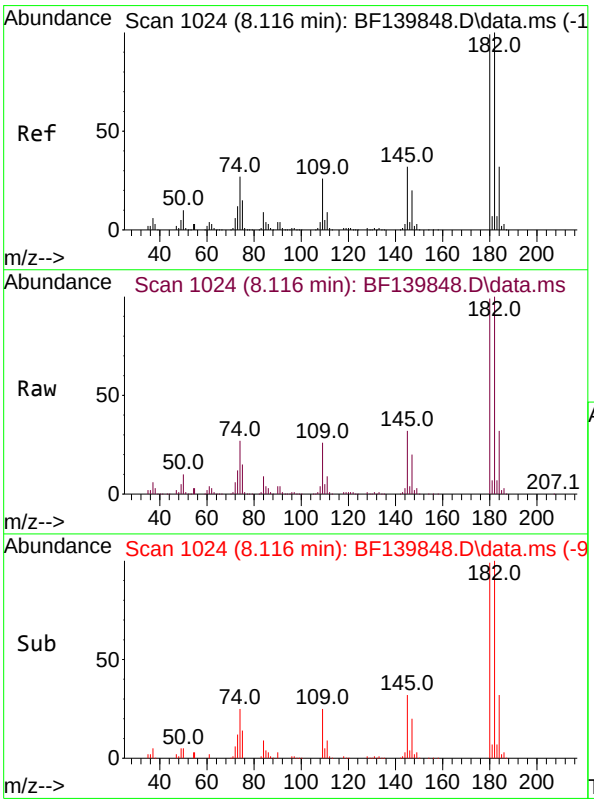
Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.9	83.9
98	39.9	19.9	59.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

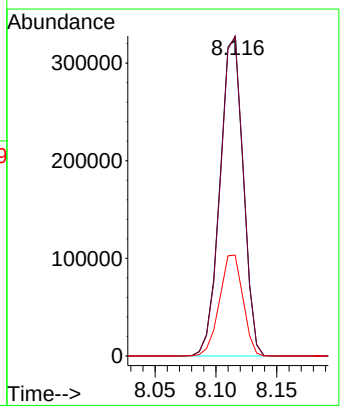
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

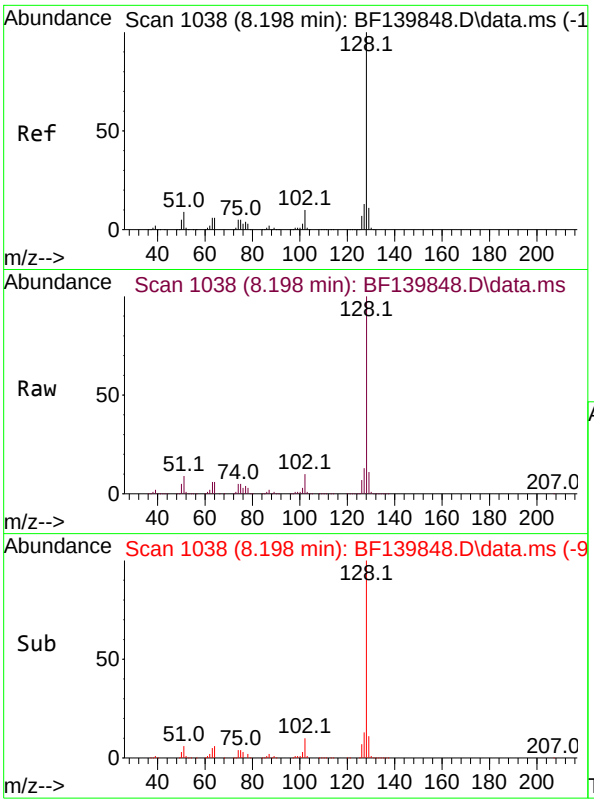


#30
1,2,4-Trichlorobenzene
Concen: 40.195 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:180 Resp: 434274

Ion	Ratio	Lower	Upper
180	100		
182	100.6	80.5	120.7
145	31.7	25.4	38.0

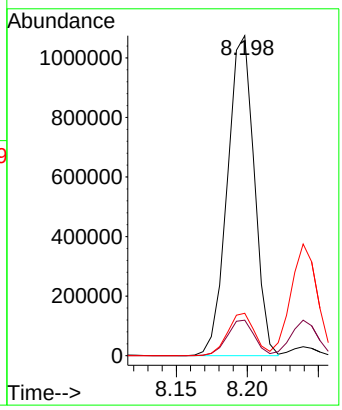




#31
Naphthalene
Concen: 39.681 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:128 Resp: 140979

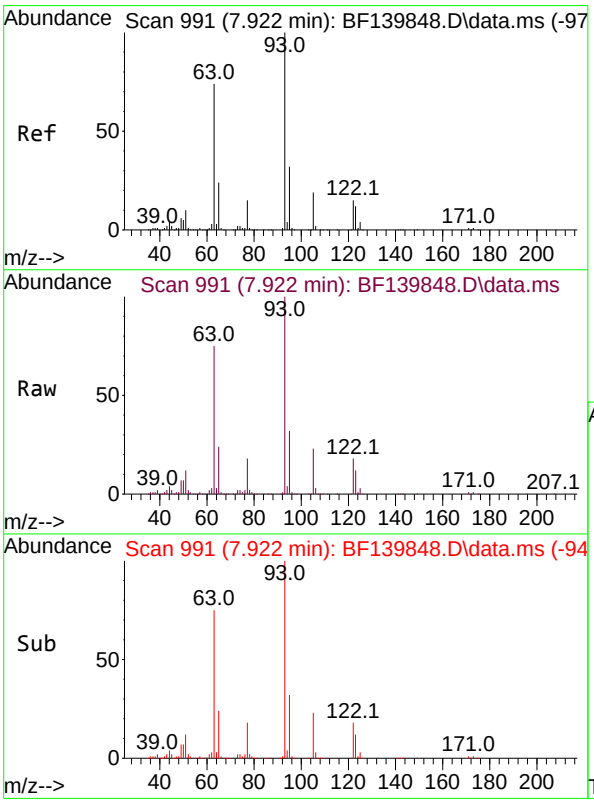
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.3	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

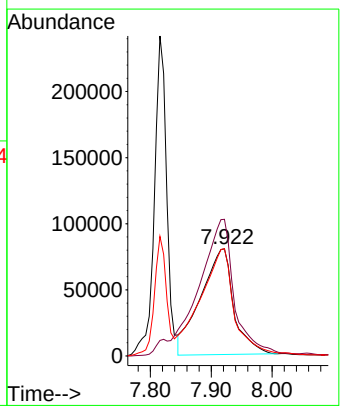
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

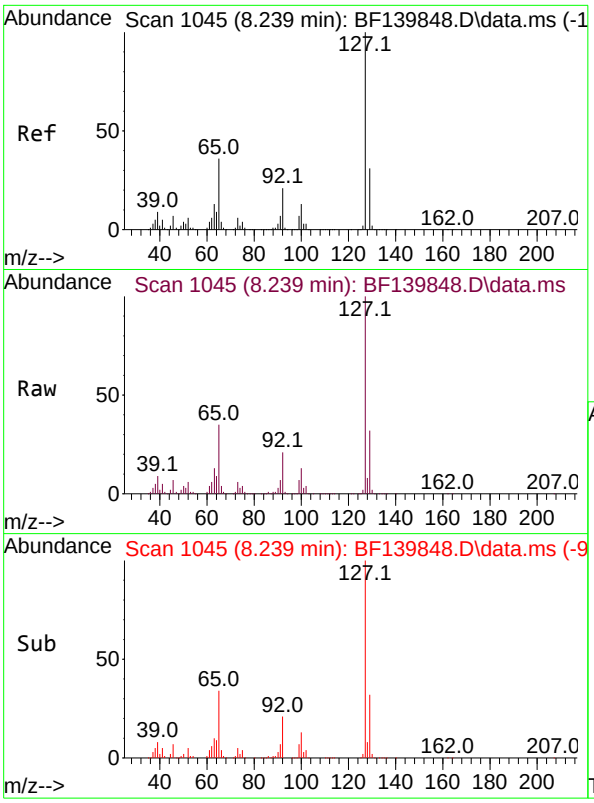


#32
Benzoic acid
Concen: 40.451 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:122 Resp: 302443

Ion	Ratio	Lower	Upper
122	100		
105	127.6	107.6	147.6
77	100.2	80.2	120.2

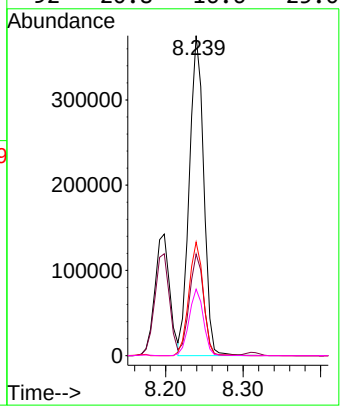




#33
4-Chloroaniline
Concen: 39.950 ng
RT: 8.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:127 Resp: 48398

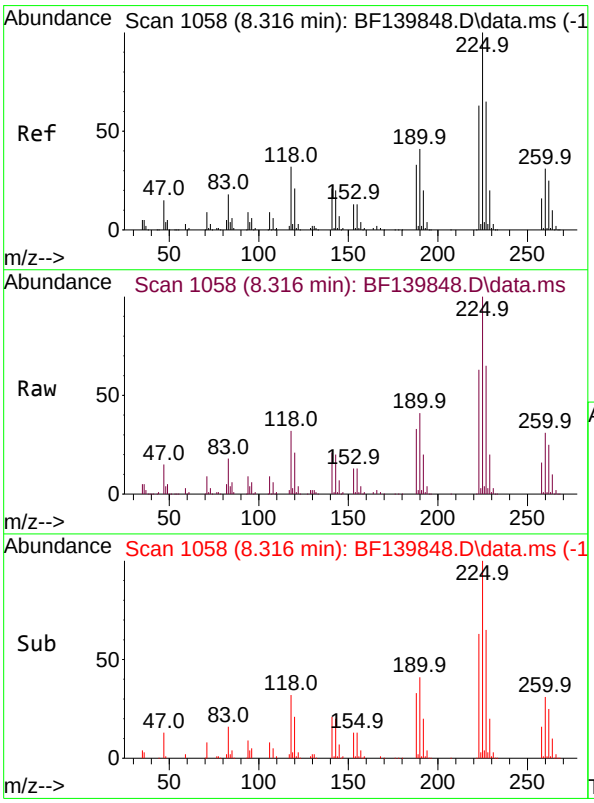
Ion	Ratio	Lower	Upper
127	100		
129	31.8	25.4	38.2
65	35.5	28.4	42.6
92	20.8	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

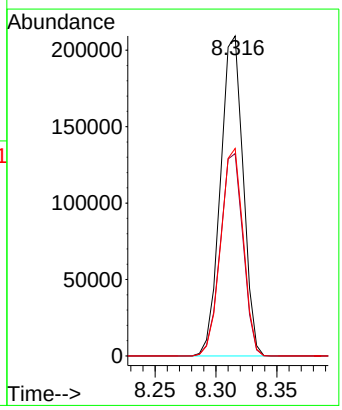
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

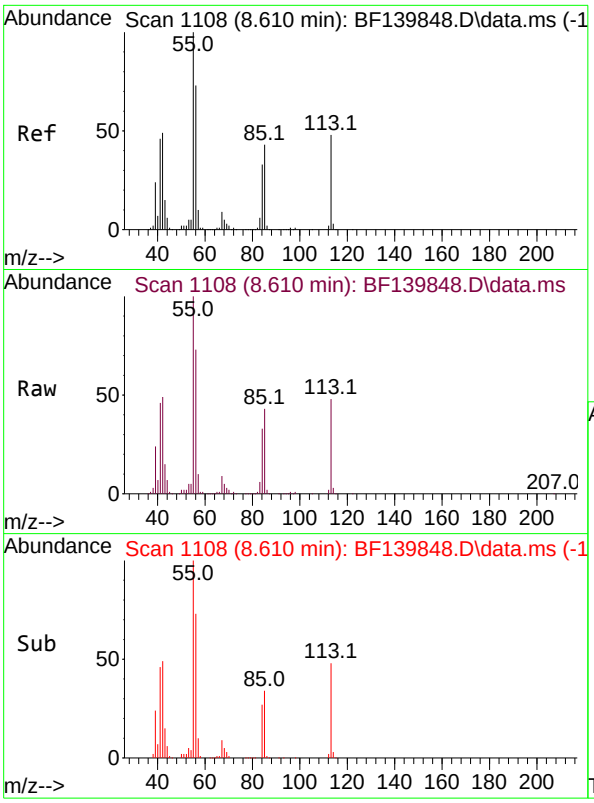


#34
Hexachlorobutadiene
Concen: 39.967 ng
RT: 8.316 min Scan# 1058
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:225 Resp: 271315

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.6	76.0
227	64.8	51.8	77.8

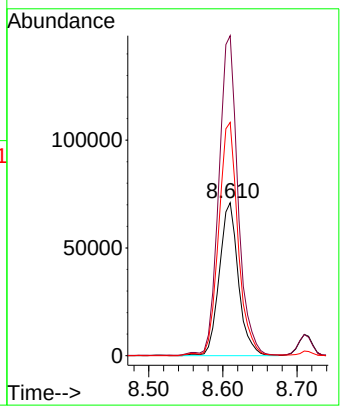




#35
Caprolactam
Concen: 40.772 ng
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:113 Resp: 12658

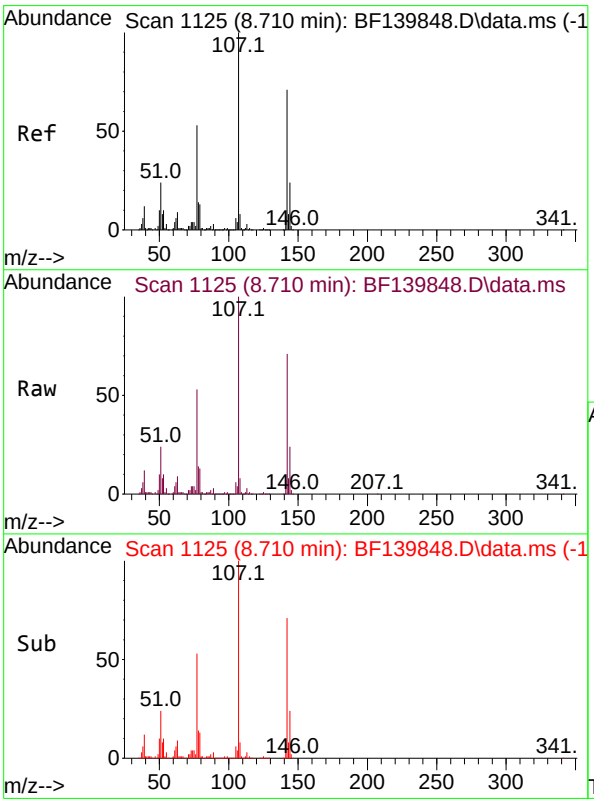
Ion	Ratio	Lower	Upper
113	100		
55	209.2	189.2	229.2
56	152.5	132.5	172.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

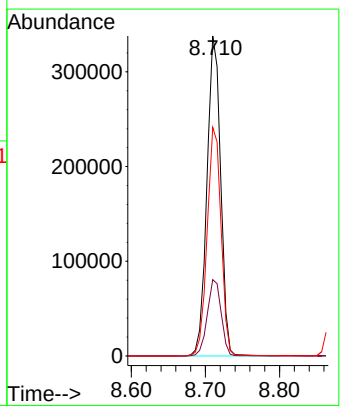
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

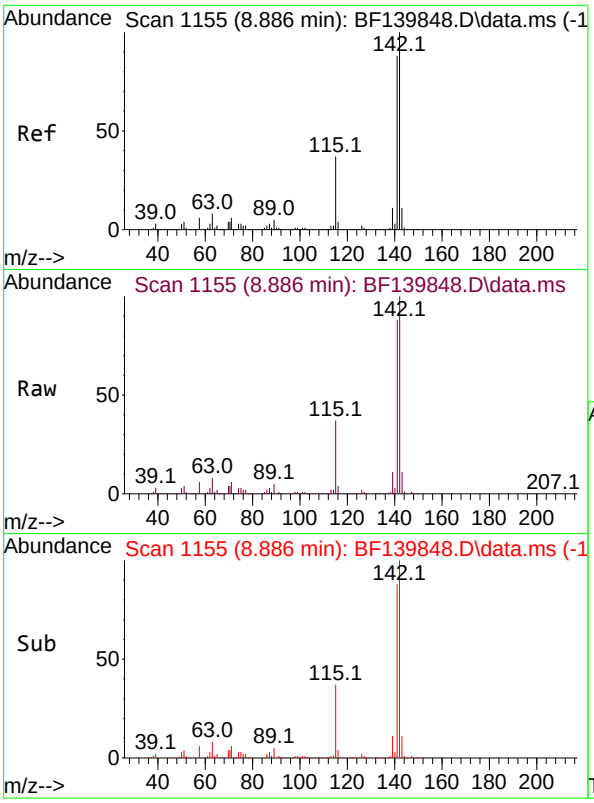


#36
4-Chloro-3-methylphenol
Concen: 40.116 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:107 Resp: 433727

Ion	Ratio	Lower	Upper
107	100		
144	23.9	19.1	28.7
142	71.5	57.2	85.8





#37
2-Methylnaphthalene
Concen: 39.345 ng
RT: 8.886 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

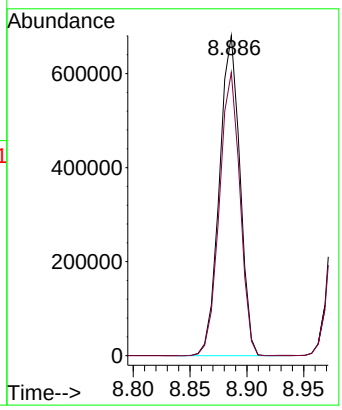
Tgt Ion:142 Resp: 85611

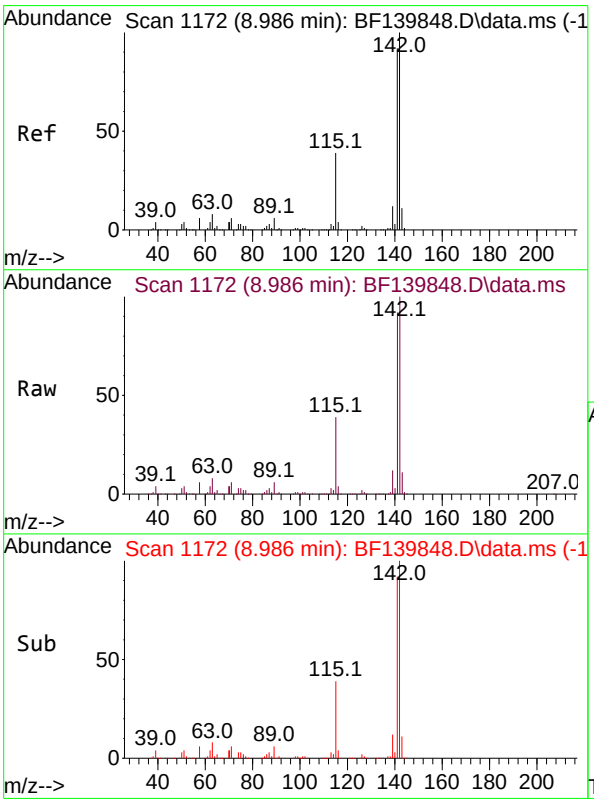
Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

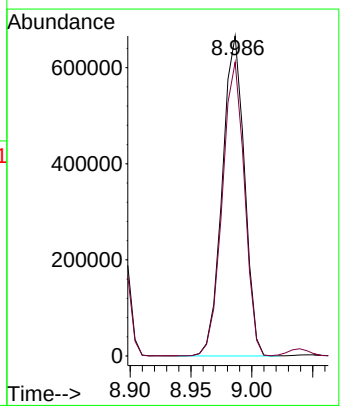


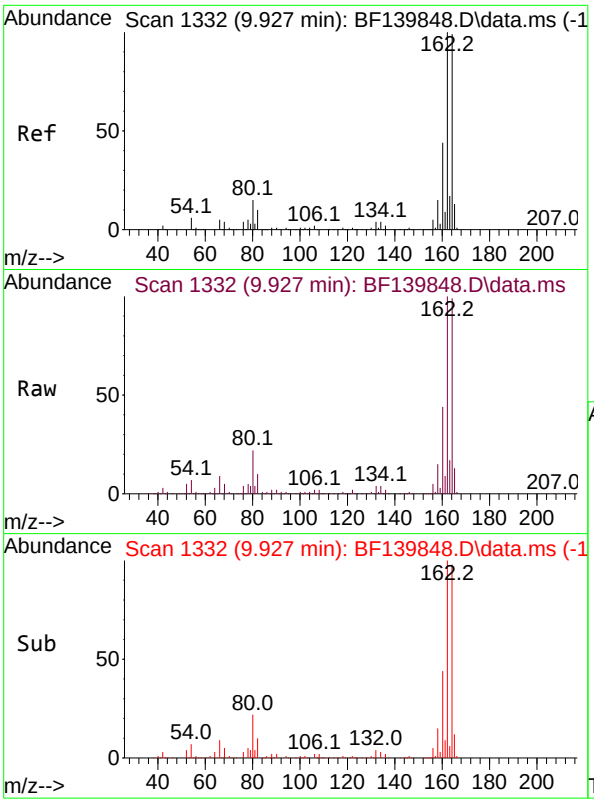


#38
1-Methylnaphthalene
Concen: 39.471 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:142 Resp: 842638

Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.5	110.3

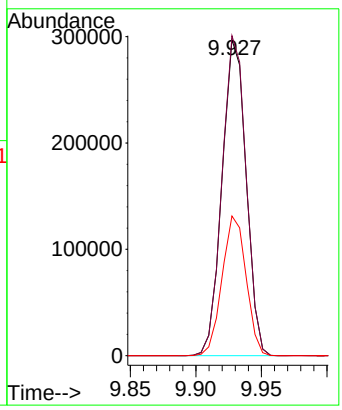




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:164 Resp: 37975

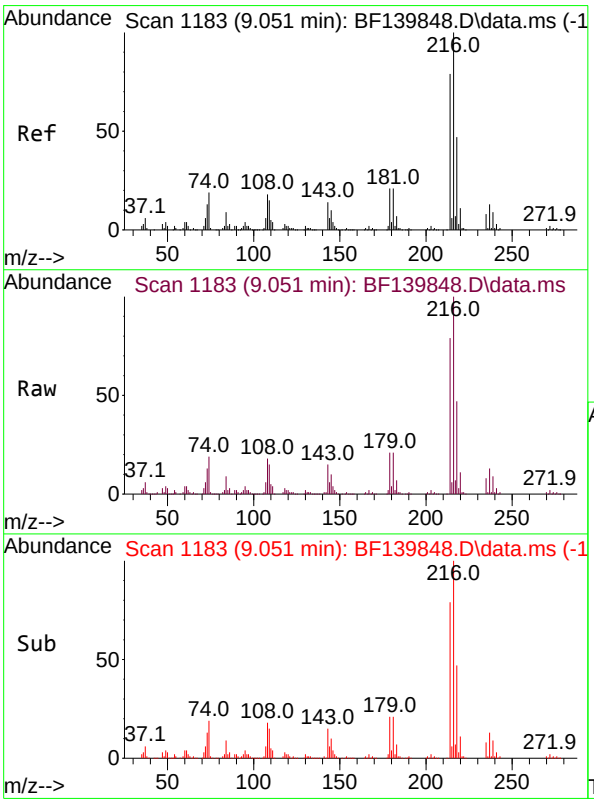
Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.0	121.4
160	44.2	35.4	53.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

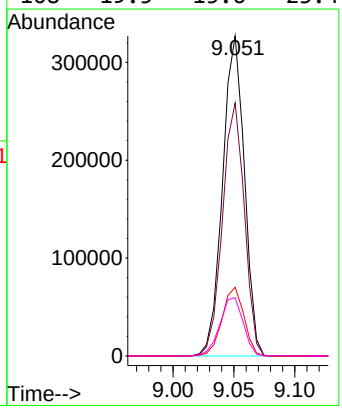
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

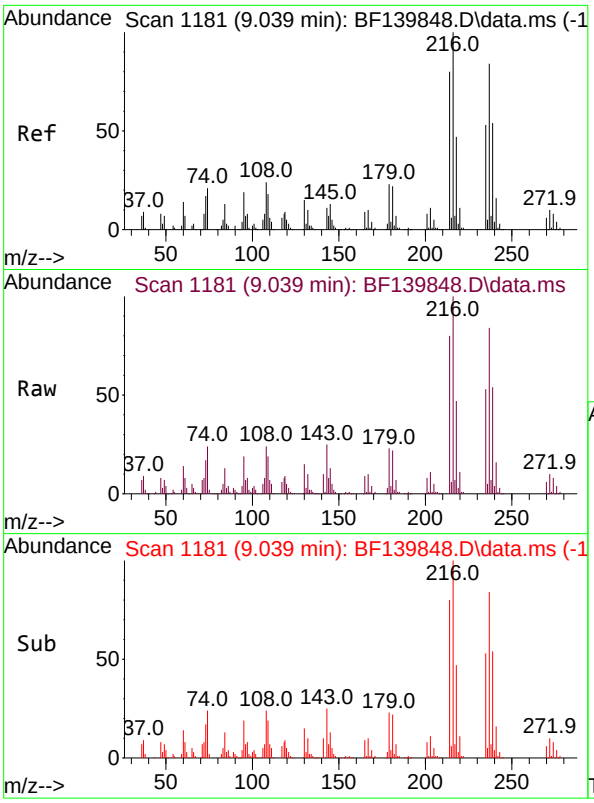


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.776 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:216 Resp: 407511

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.4	95.0
179	21.5	17.2	25.8
108	19.5	15.6	23.4





#41
Hexachlorocyclopentadiene
Concen: 42.229 ng
RT: 9.039 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

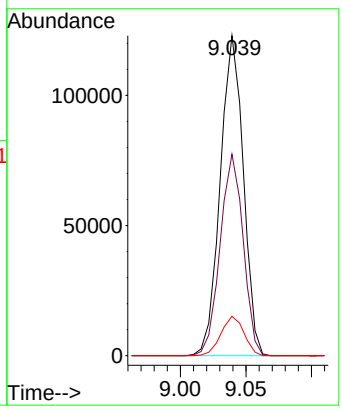
Tgt Ion:237 Resp: 15054

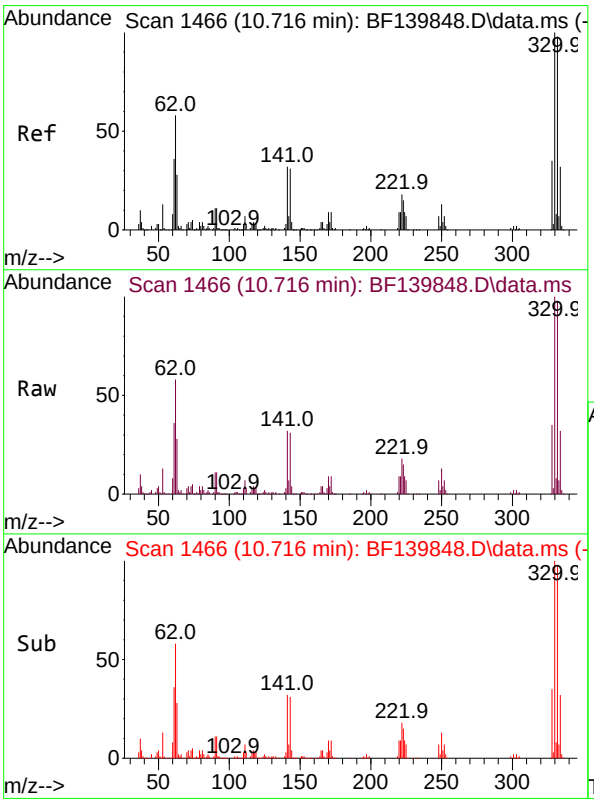
Ion	Ratio	Lower	Upper
237	100		
235	62.9	42.9	82.9
272	12.3	0.0	32.3

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

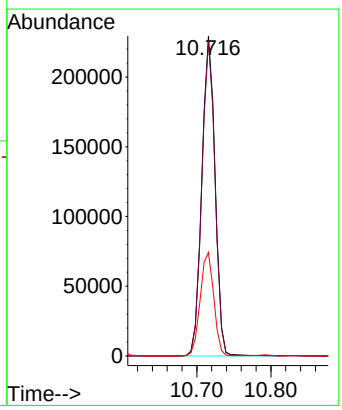


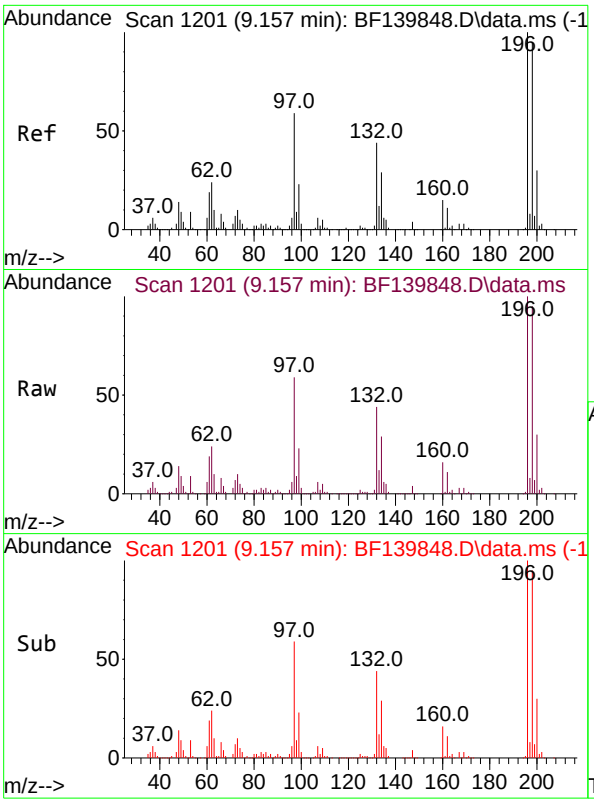


#42
2,4,6-Tribromophenol
Concen: 80.292 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:330 Resp: 285205

Ion	Ratio	Lower	Upper
330	100		
332	97.6	78.1	117.1
141	33.2	26.6	39.8

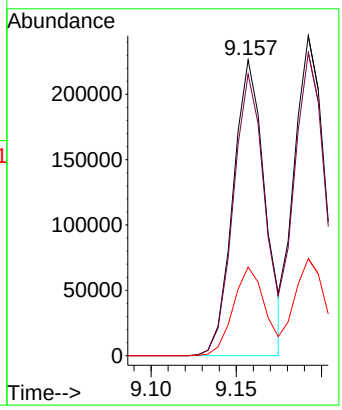




#43
2,4,6-Trichlorophenol
Concen: 40.474 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:196 Resp: 29357

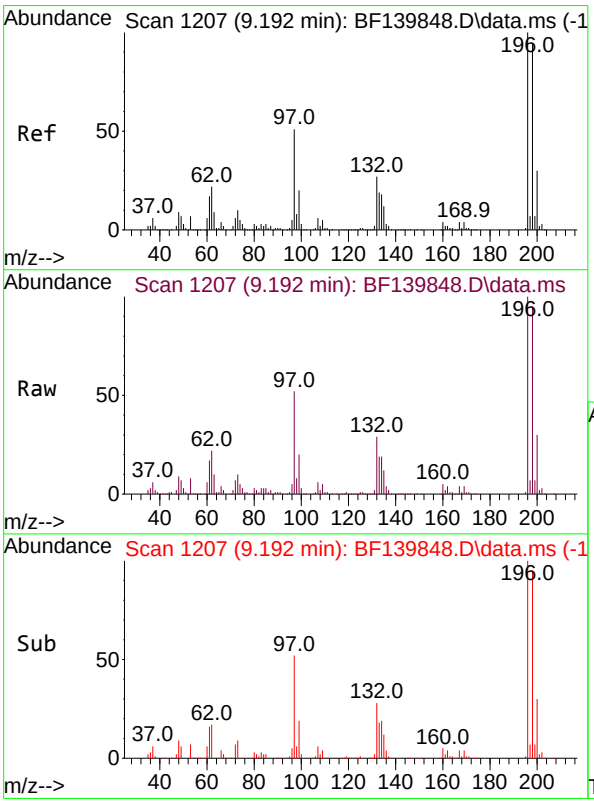
Ion	Ratio	Lower	Upper
196	100		
198	95.2	76.2	114.2
200	30.0	24.0	36.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

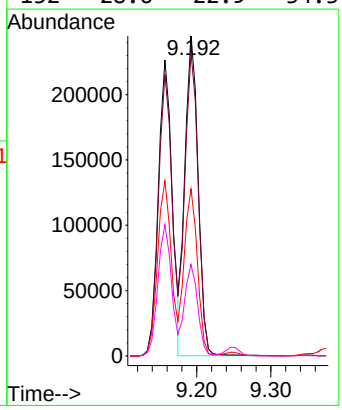
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

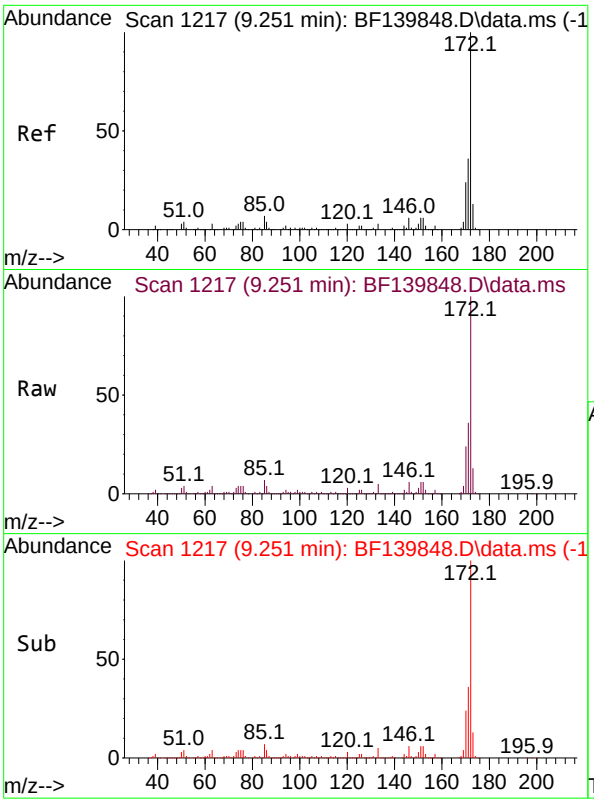


#44
2,4,5-Trichlorophenol
Concen: 40.651 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:196 Resp: 304213

Ion	Ratio	Lower	Upper
196	100		
198	94.7	75.8	113.6
97	52.2	41.8	62.6
132	28.6	22.9	34.3

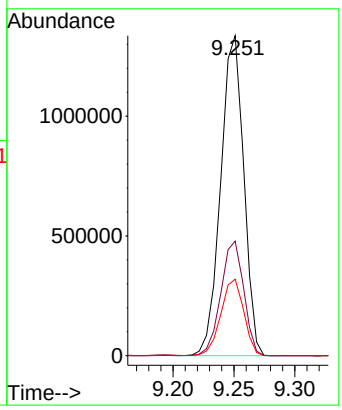




#45
2-Fluorobiphenyl
Concen: 76.791 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:172 Resp: 176449

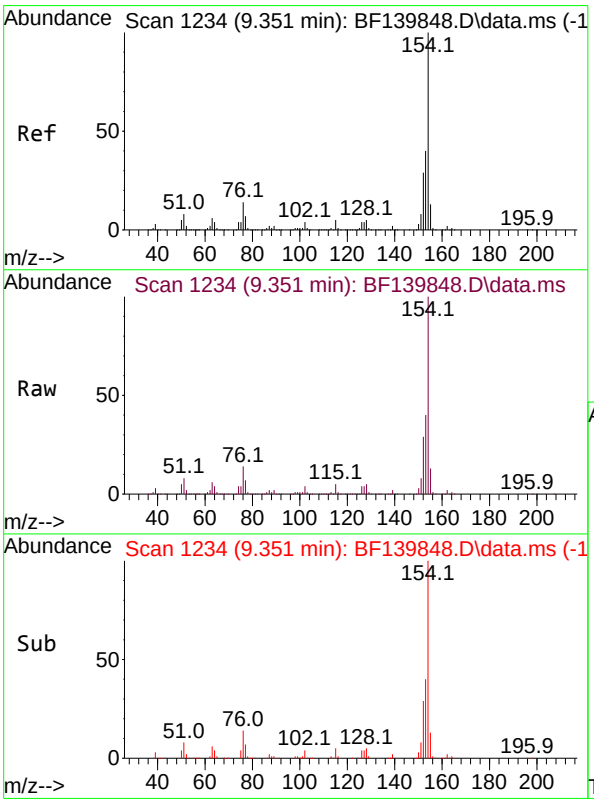
Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	23.9	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

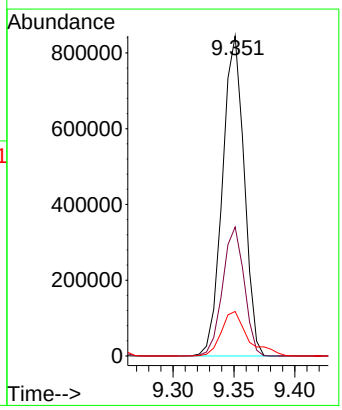
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

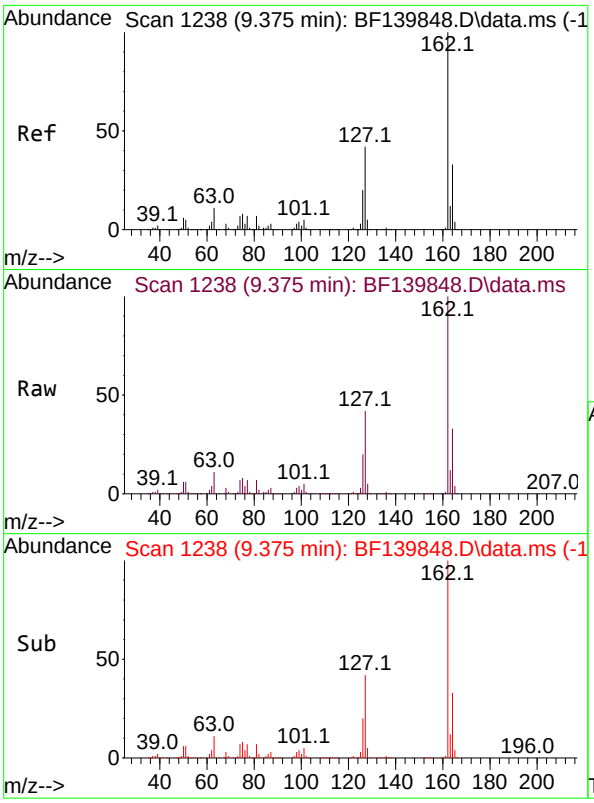


#46
1,1'-Biphenyl
Concen: 39.608 ng
RT: 9.351 min Scan# 1234
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:154 Resp: 1047094

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.3	60.3
76	13.9	0.0	33.9

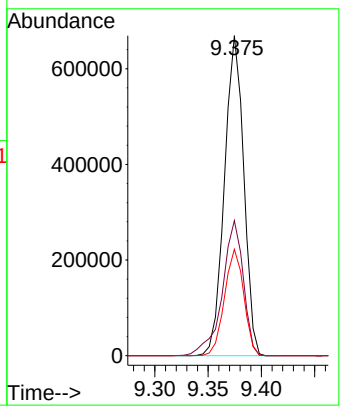




#47
2-Chloronaphthalene
Concen: 39.613 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:162 Resp: 84345

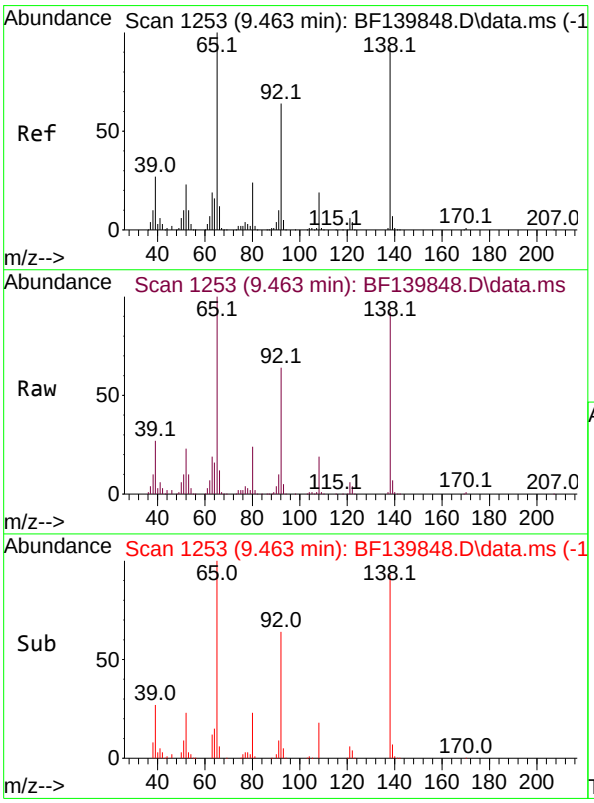
Ion	Ratio	Lower	Upper
162	100		
127	42.2	33.8	50.6
164	33.2	26.6	39.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

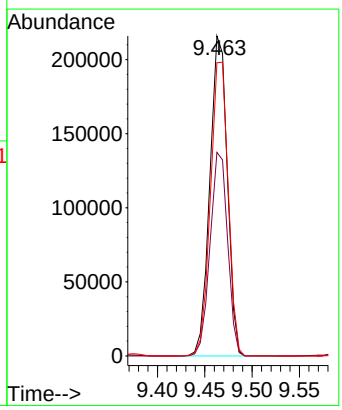
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

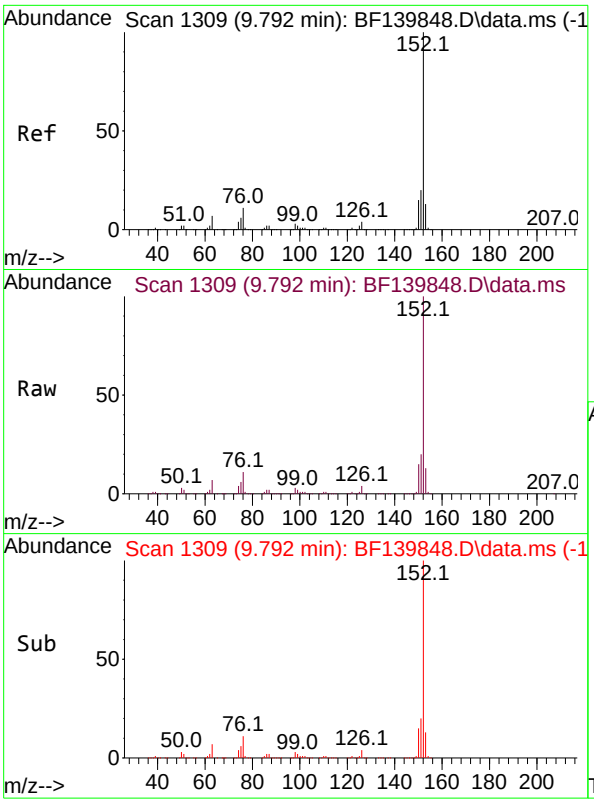


#48
2-Nitroaniline
Concen: 42.562 ng
RT: 9.463 min Scan# 1253
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 65 Resp: 277165

Ion	Ratio	Lower	Upper
65	100		
92	63.6	50.9	76.3
138	91.7	73.4	110.0

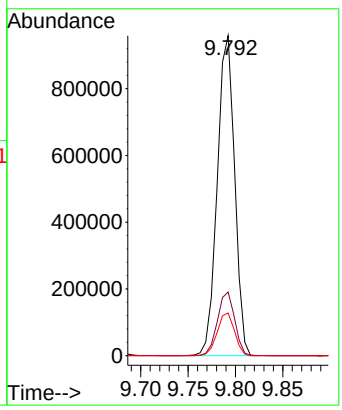




#49
Acenaphthylene
Concen: 39.837 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:152 Resp: 122627

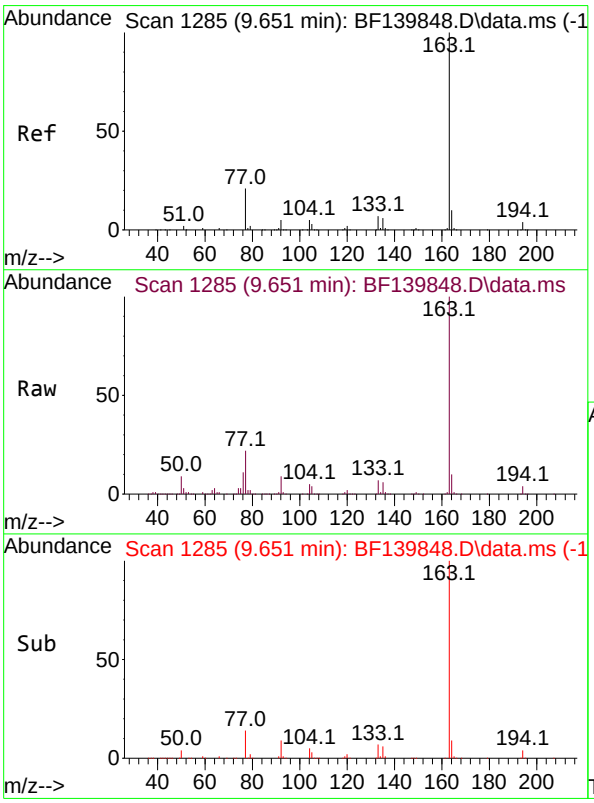
Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.9	23.9
153	13.4	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

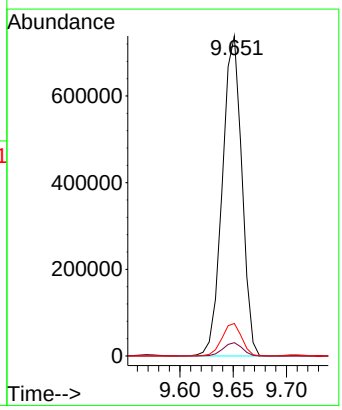
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

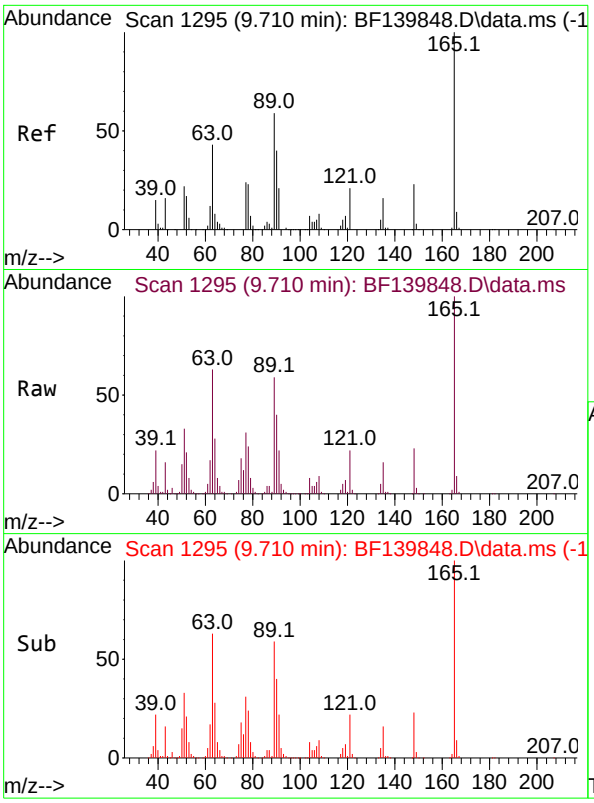


#50
Dimethylphthalate
Concen: 39.726 ng
RT: 9.651 min Scan# 1285
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:163 Resp: 939670

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.2	8.2	12.2

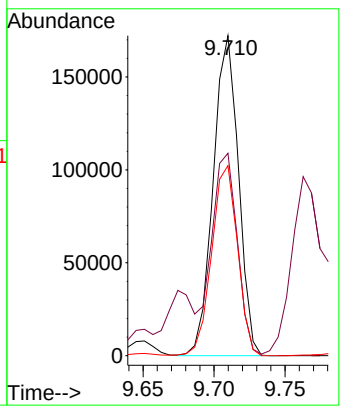




#51
2,6-Dinitrotoluene
Concen: 41.580 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:165 Resp: 21295

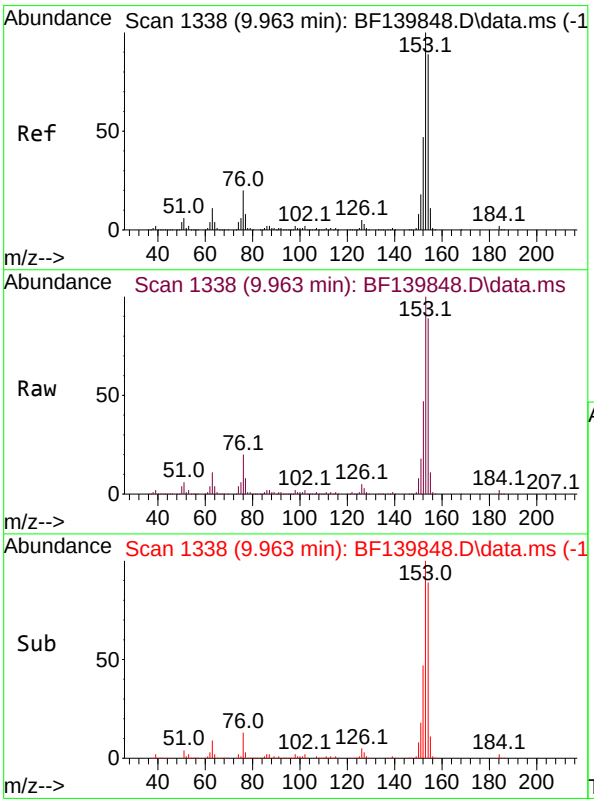
Ion	Ratio	Lower	Upper
165	100		
63	63.2	50.6	75.8
89	59.4	47.5	71.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

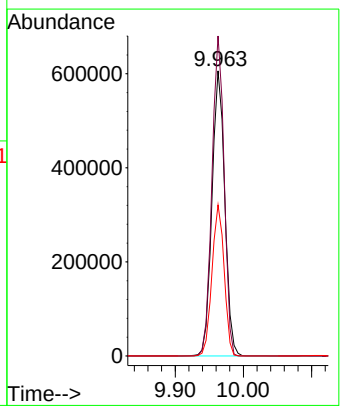
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

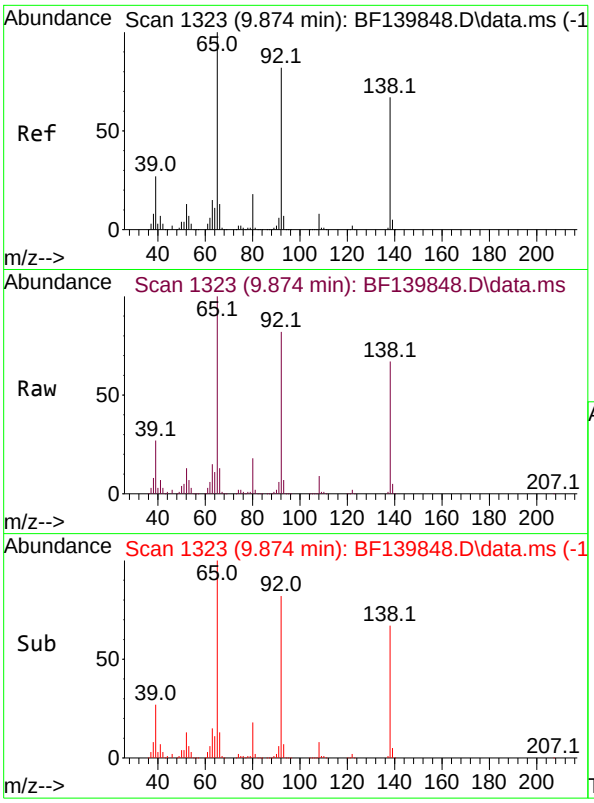


#52
Acenaphthene
Concen: 39.811 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:154 Resp: 792756

Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.8	134.6
152	53.0	42.4	63.6

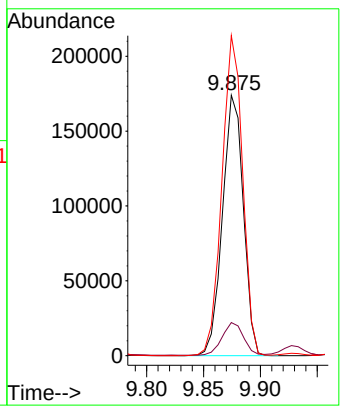




#53
3-Nitroaniline
Concen: 42.051 ng
RT: 9.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:138 Resp: 22209

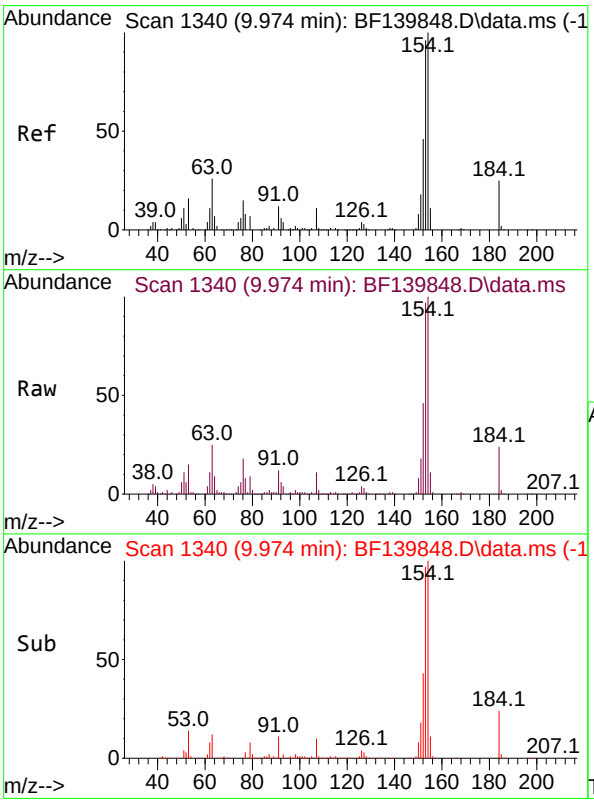
Ion	Ratio	Lower	Upper
138	100		
108	12.7	10.2	15.2
92	122.9	98.3	147.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

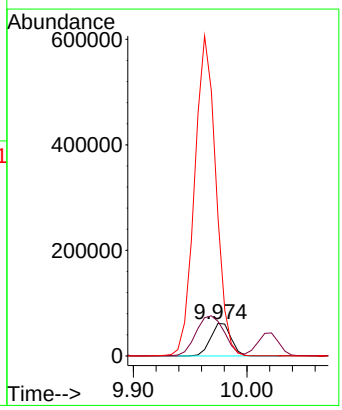
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

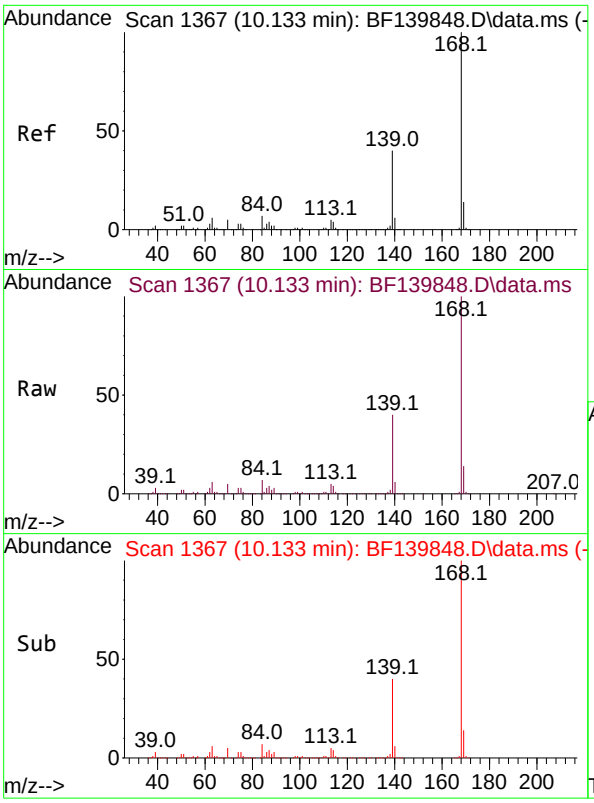


#54
2,4-Dinitrophenol
Concen: 39.739 ng
RT: 9.974 min Scan# 1340
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:184 Resp: 76948

Ion	Ratio	Lower	Upper
184	100		
63	105.9	84.7	127.1
154	422.7	338.2	507.2

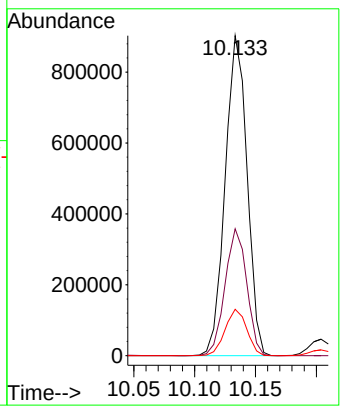




#55
Dibenzofuran
Concen: 39.505 ng
RT: 10.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:168 Resp: 112867

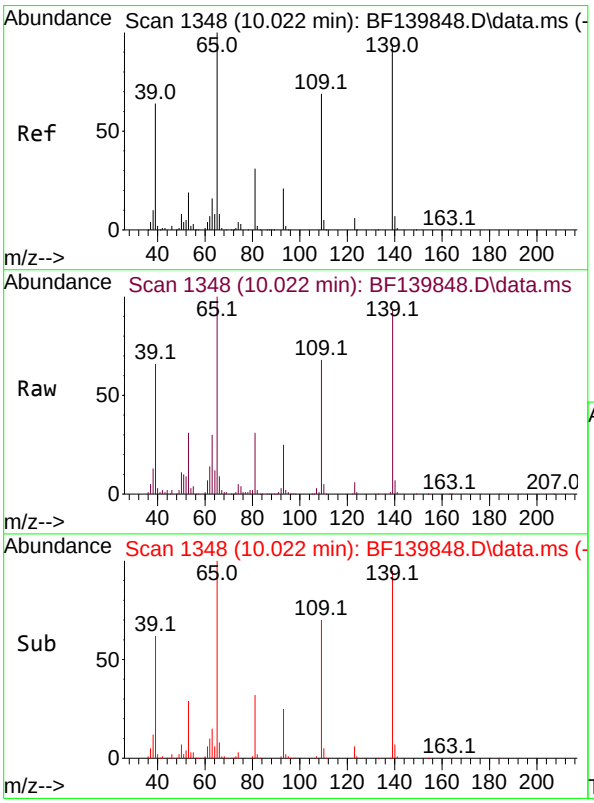
Ion	Ratio	Lower	Upper
168	100		
139	39.7	31.8	47.6
169	14.5	11.6	17.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

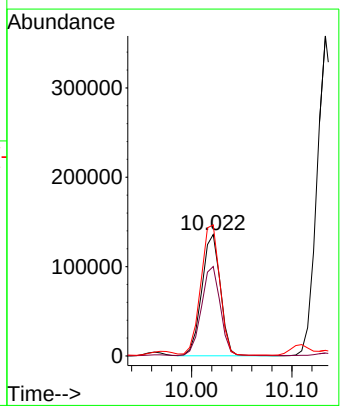
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

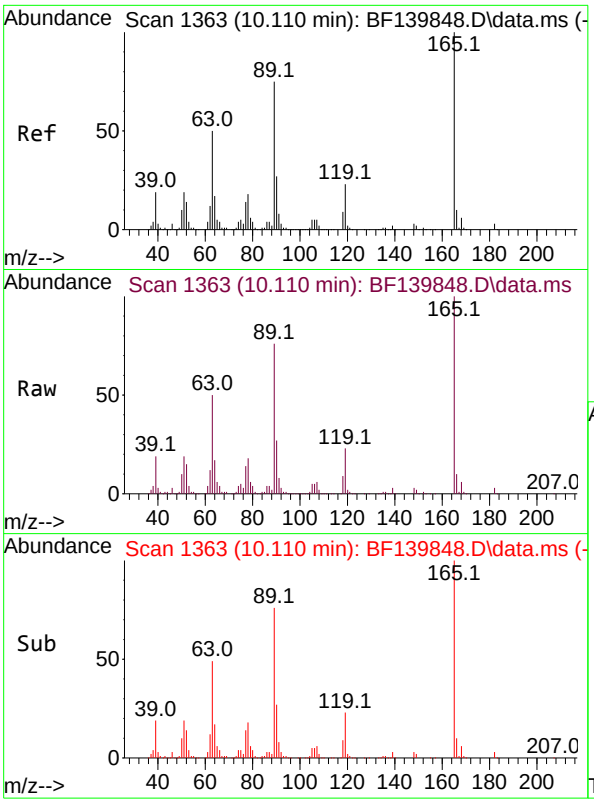


#56
4-Nitrophenol
Concen: 43.292 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:139 Resp: 175913

Ion	Ratio	Lower	Upper
139	100		
109	73.6	53.6	93.6
65	107.8	87.8	127.8

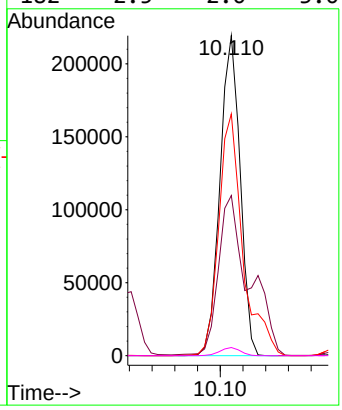




#57
2,4-Dinitrotoluene
Concen: 42.965 ng
RT: 10.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:165 Resp: 27060

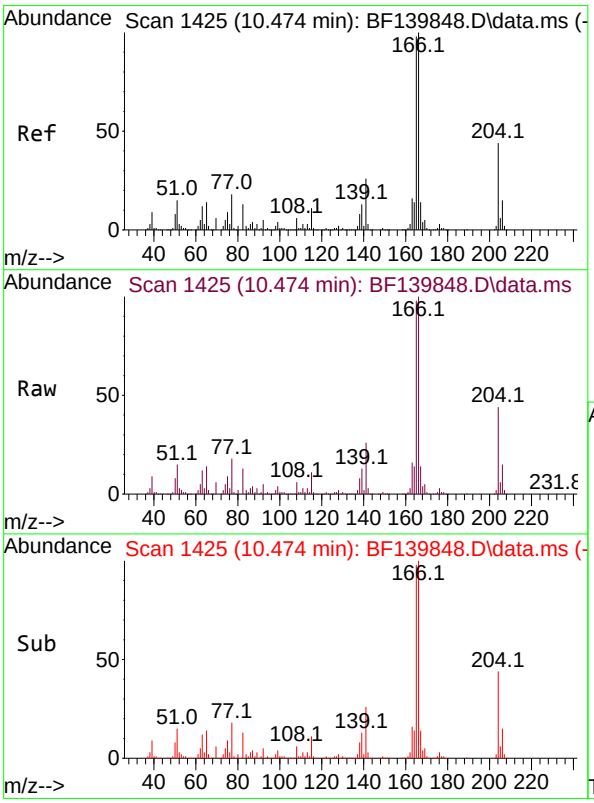
Ion	Ratio	Lower	Upper
165	100		
63	50.1	40.1	60.1
89	75.5	60.4	90.6
182	2.5	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

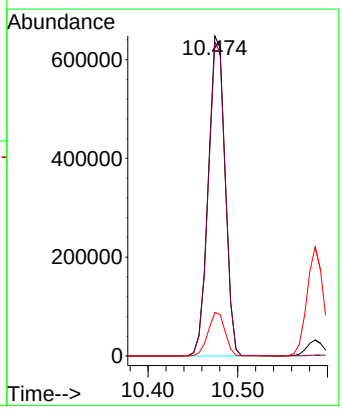
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

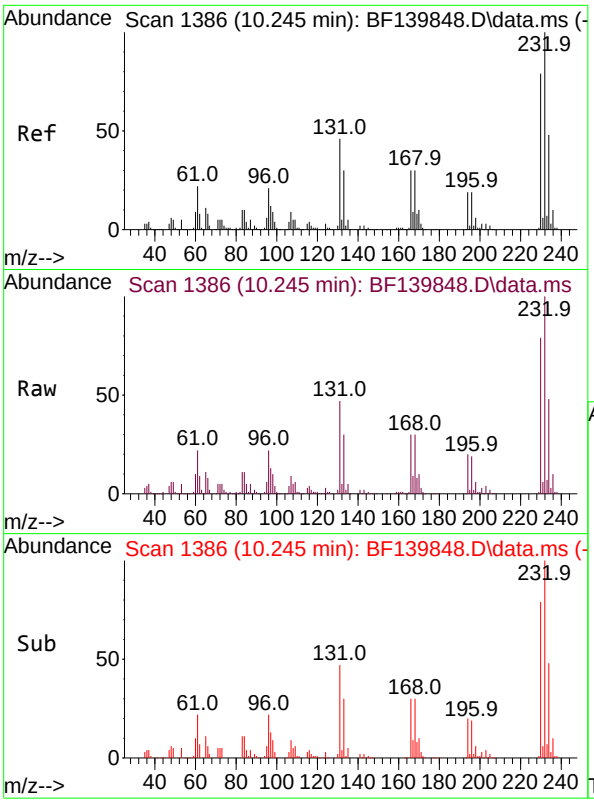


#58
Fluorene
Concen: 38.742 ng
RT: 10.474 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:166 Resp: 843048

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.5	117.7
167	13.6	10.9	16.3

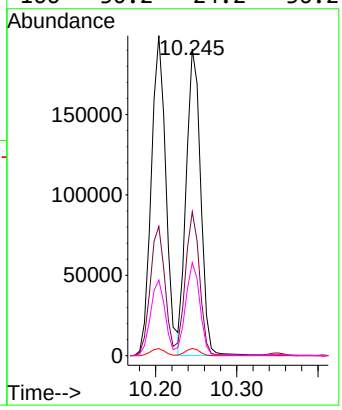




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.087 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:232 Resp: 23517

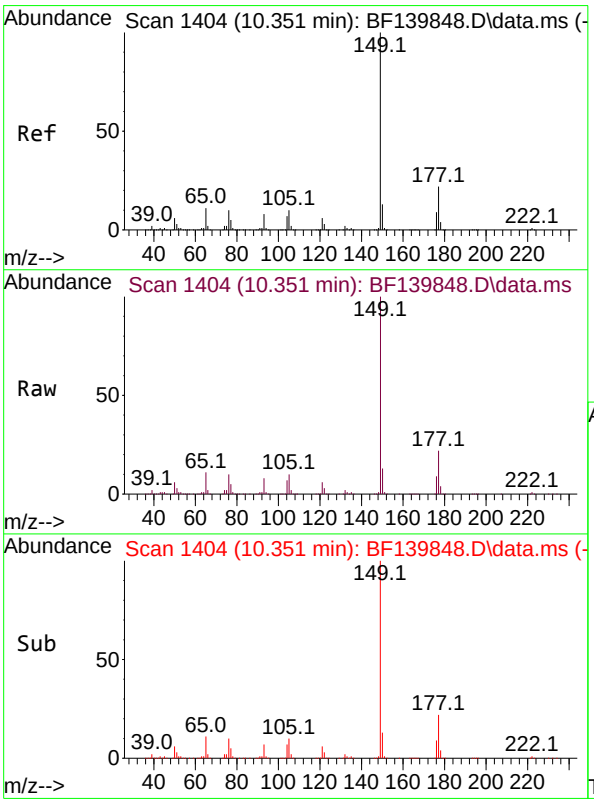
Ion	Ratio	Lower	Upper
232	100		
131	46.3	37.0	55.6
130	2.4	1.9	2.9
166	30.2	24.2	36.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

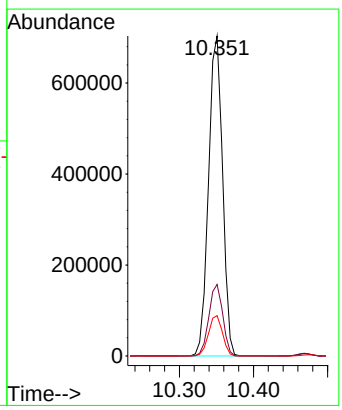
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

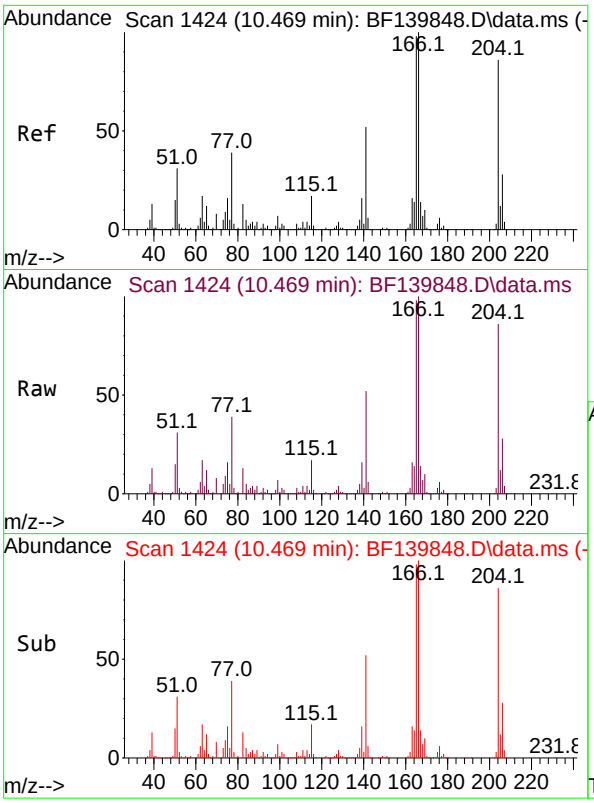


#60
Diethylphthalate
Concen: 39.715 ng
RT: 10.351 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:149 Resp: 922384

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	12.6	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 39.347 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

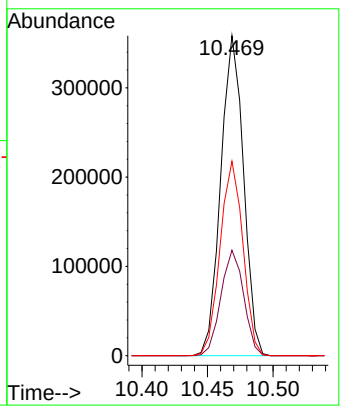
Tgt Ion:204 Resp: 43239

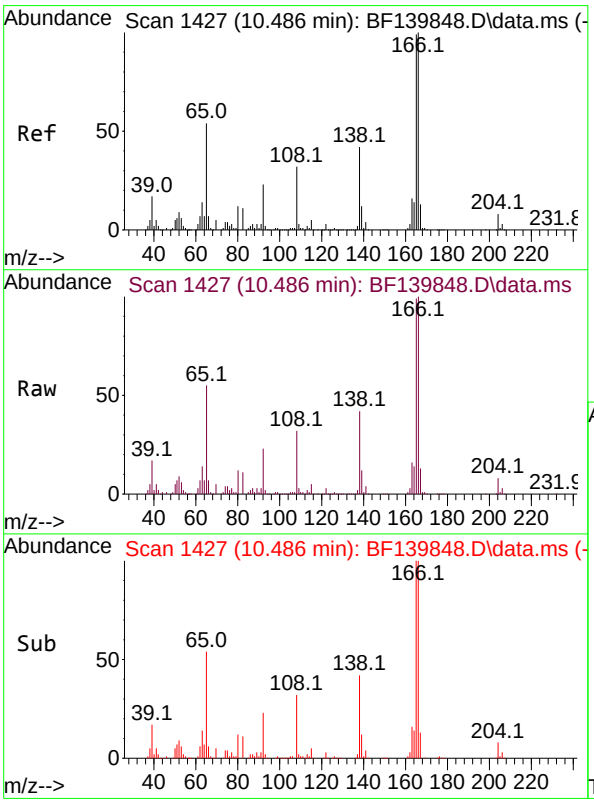
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.3	39.5
141	60.8	48.6	73.0

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

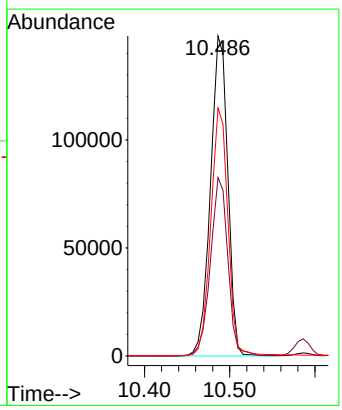


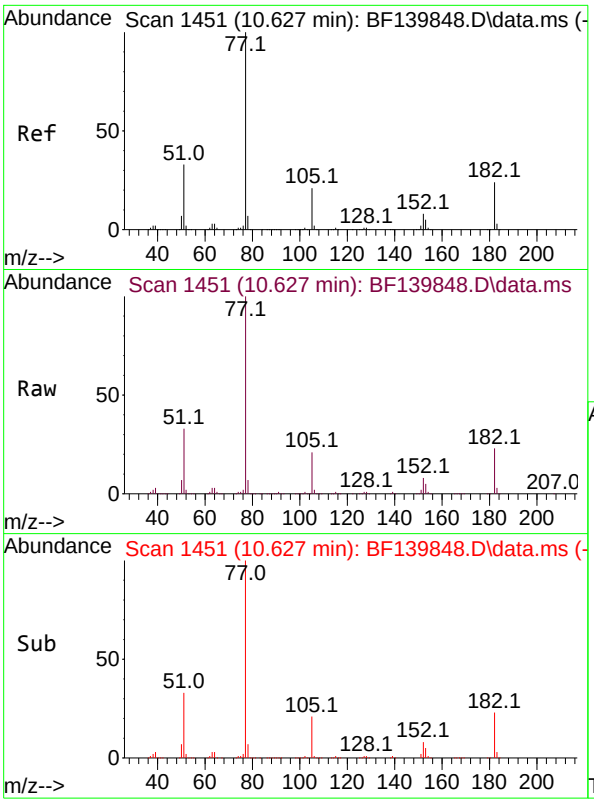


#62
4-Nitroaniline
Concen: 41.884 ng
RT: 10.486 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:138 Resp: 208926

Ion	Ratio	Lower	Upper
138	100		
92	55.7	35.7	75.7
108	77.5	57.5	97.5

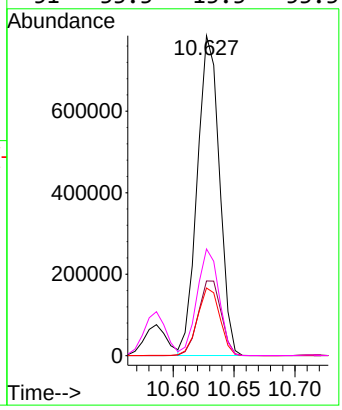




#63
Azobenzene
Concen: 40.289 ng
RT: 10.627 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion: 77 Resp: 99198

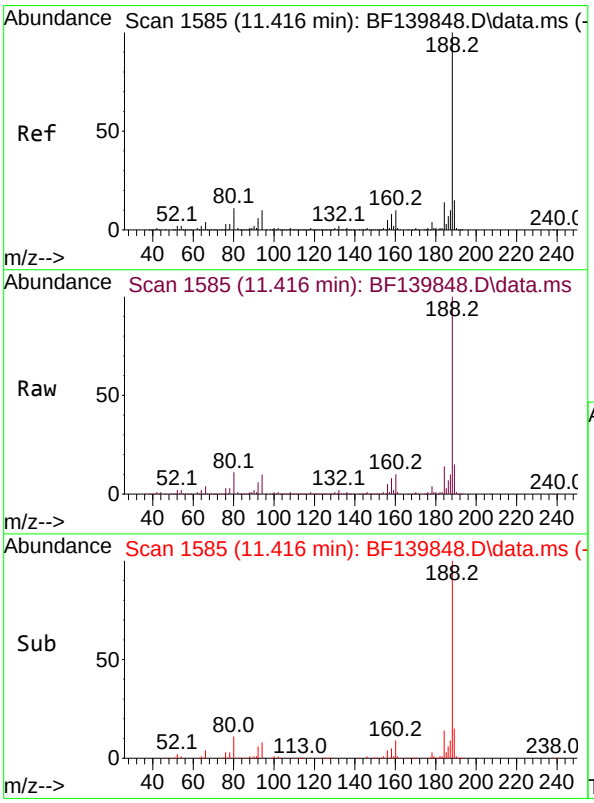
Ion	Ratio	Lower	Upper
77	100		
182	23.3	3.3	43.3
105	21.2	1.2	41.2
51	33.3	13.3	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

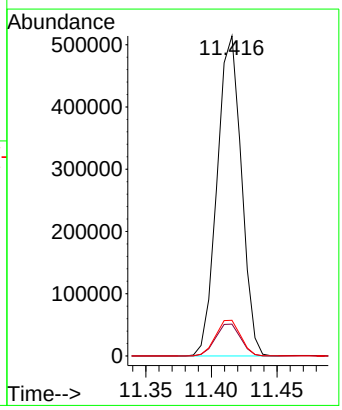
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

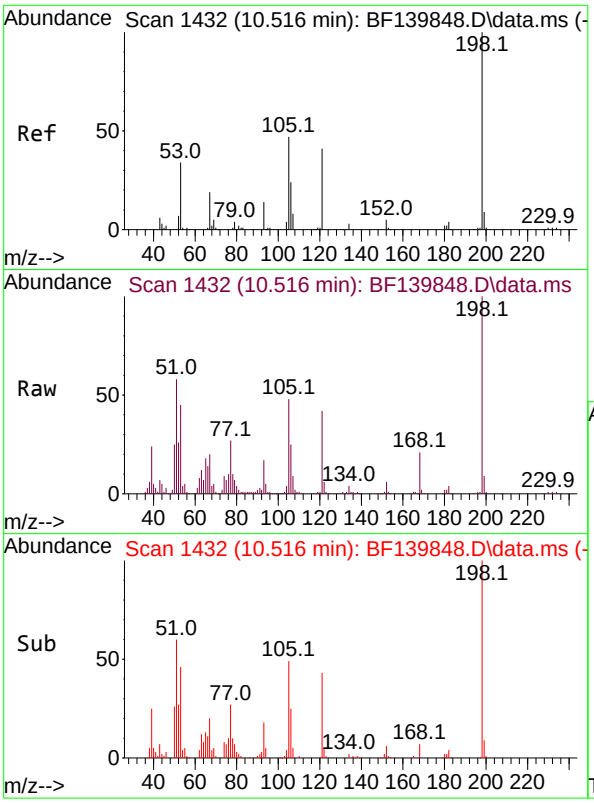


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:188 Resp: 663459

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.9	11.9
80	11.2	9.0	13.4

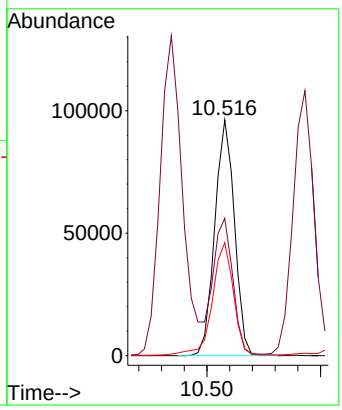




#65
4,6-Dinitro-2-methylphenol
Concen: 42.799 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:198 Resp: 11582

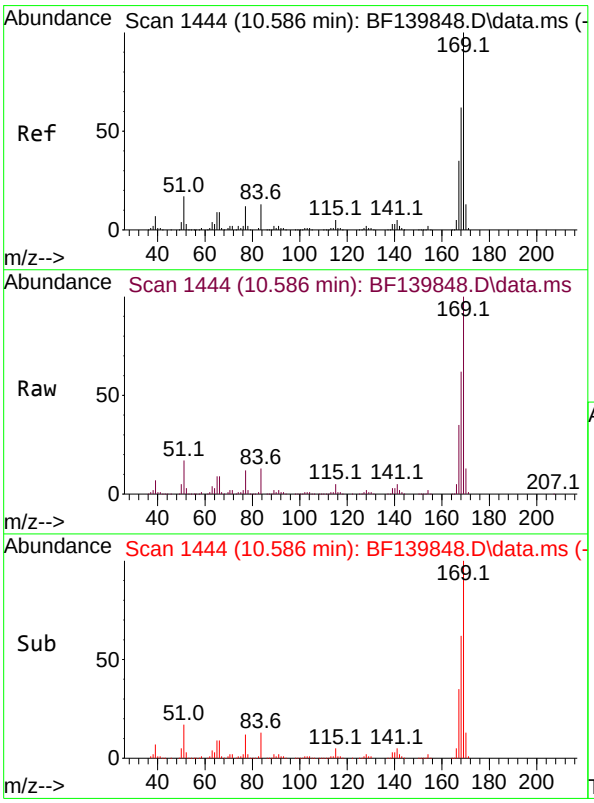
Ion	Ratio	Lower	Upper
198	100		
51	58.2	38.2	78.2
105	47.9	27.9	67.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

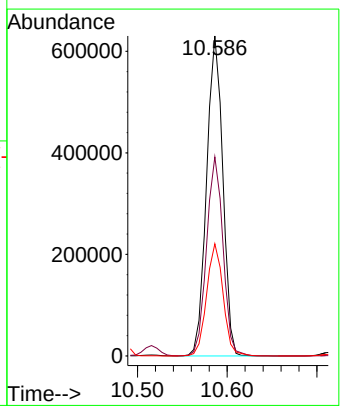
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

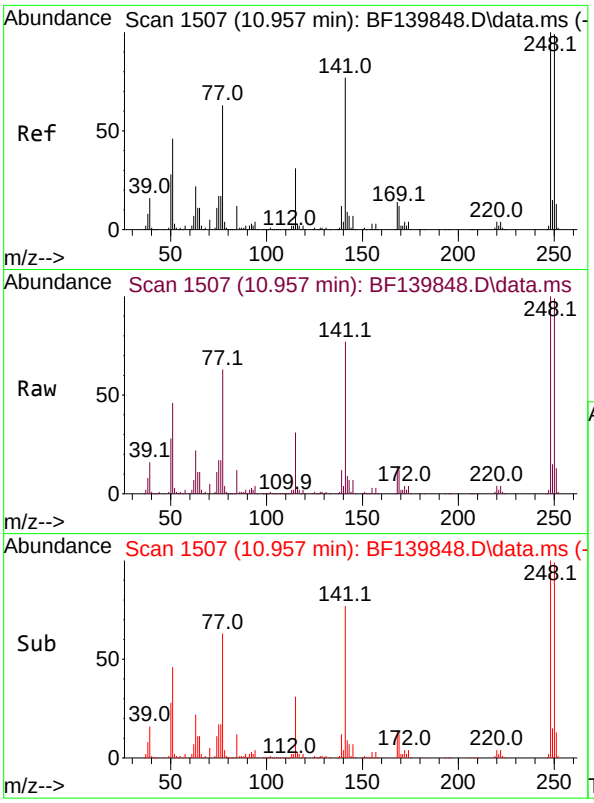


#66
n-Nitrosodiphenylamine
Concen: 39.772 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:169 Resp: 789753

Ion	Ratio	Lower	Upper
169	100		
168	62.2	49.8	74.6
167	35.0	28.0	42.0

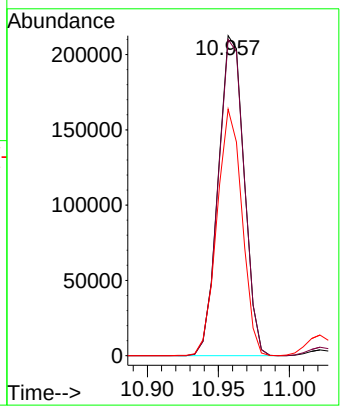




#67
4-Bromophenyl-phenylether
Concen: 39.285 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:248 Resp: 26850

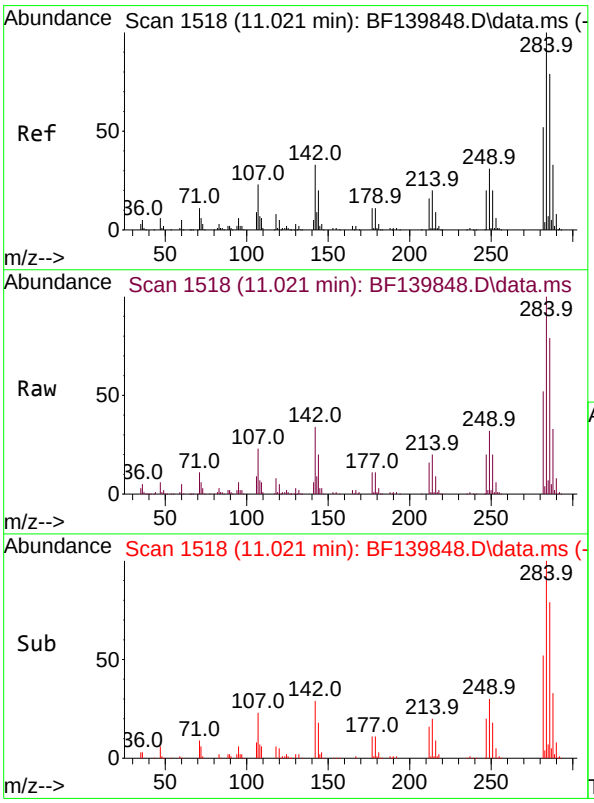
Ion	Ratio	Lower	Upper
248	100		
250	98.8	79.0	118.6
141	77.1	61.7	92.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

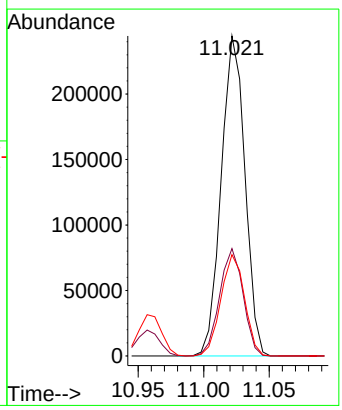
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

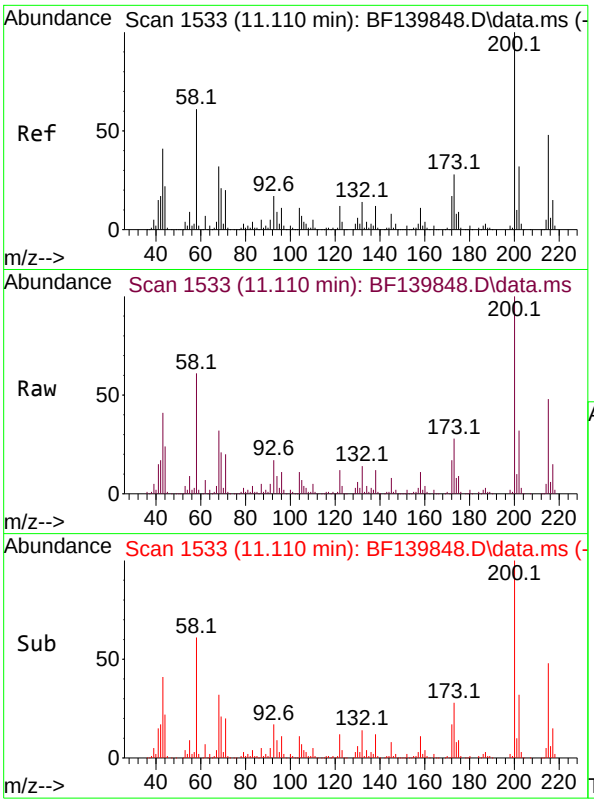


#68
Hexachlorobenzene
Concen: 39.927 ng
RT: 11.021 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:284 Resp: 306919

Ion	Ratio	Lower	Upper
284	100		
142	33.6	26.9	40.3
249	31.6	25.3	37.9

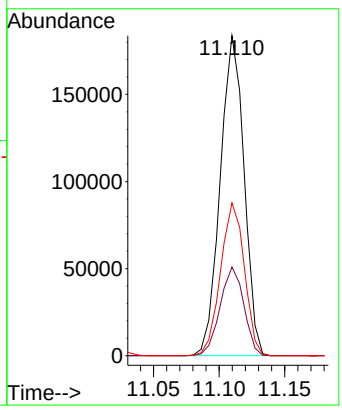




#69
Atrazine
Concen: 43.145 ng
RT: 11.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:200 Resp: 23207

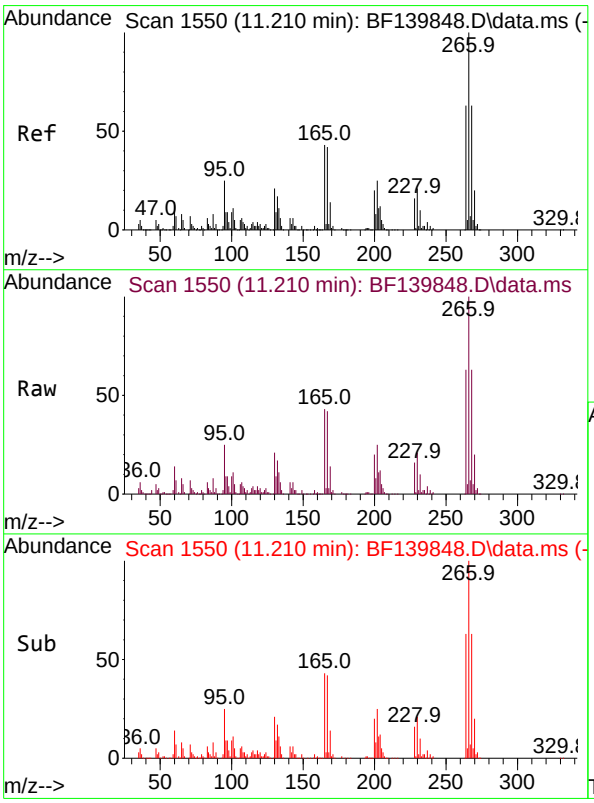
Ion	Ratio	Lower	Upper
200	100		
173	27.7	7.7	47.7
215	47.7	27.7	67.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

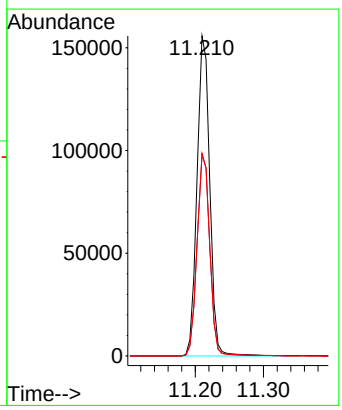
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

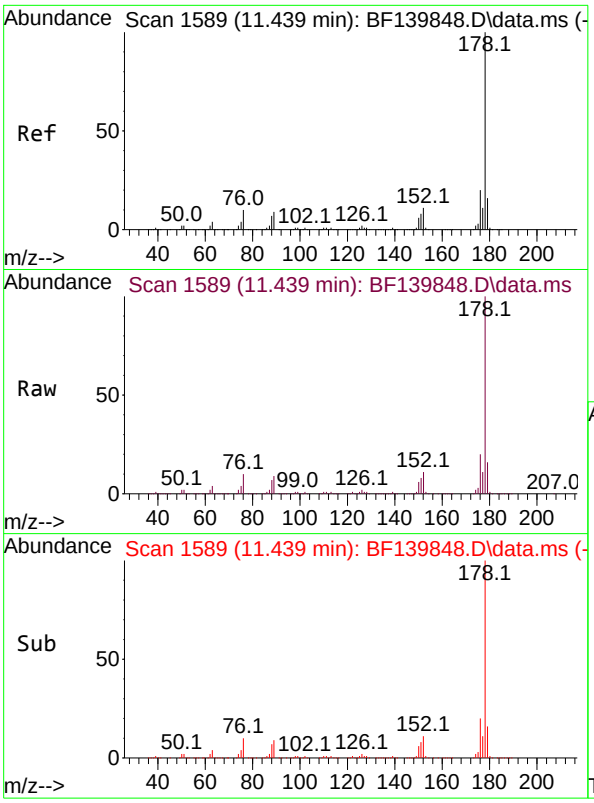


#70
Pentachlorophenol
Concen: 43.204 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:266 Resp: 201559

Ion	Ratio	Lower	Upper
266	100		
268	63.0	50.4	75.6
264	63.2	50.6	75.8

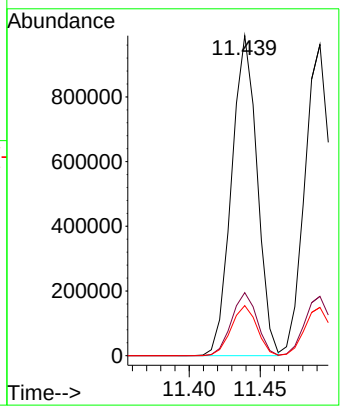




#71
Phenanthrene
Concen: 39.508 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:178 Resp: 123815

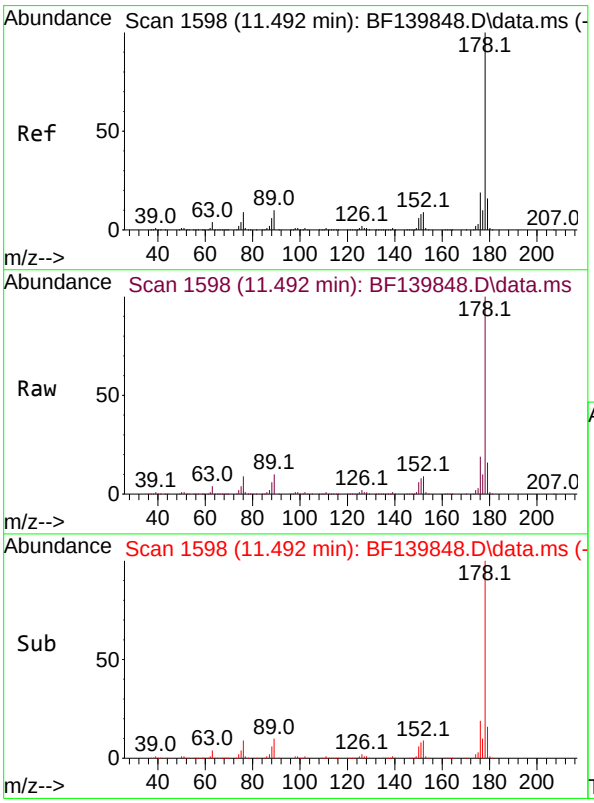
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.6
179	15.7	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

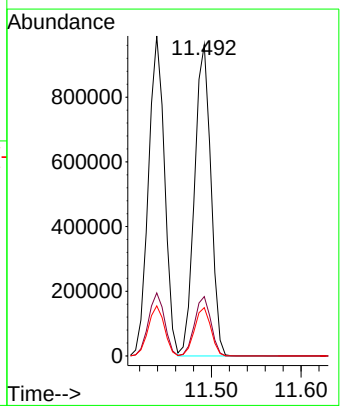
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

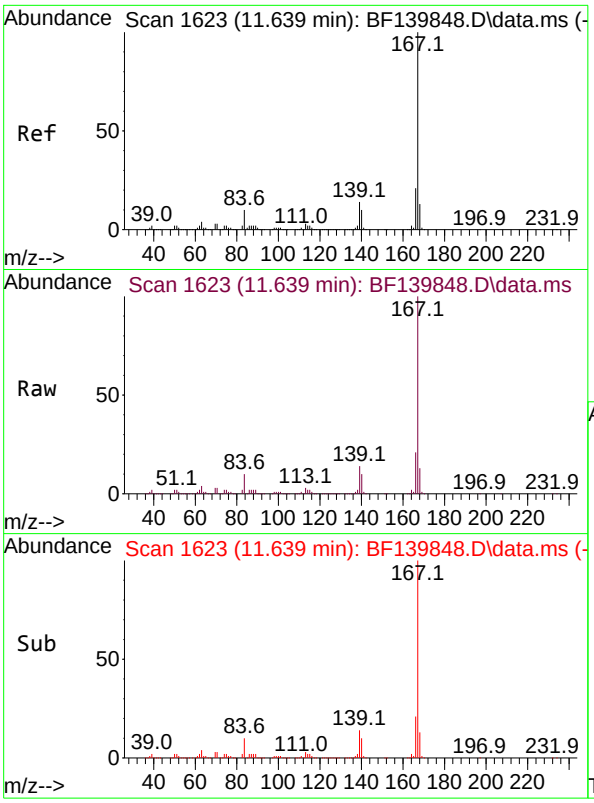


#72
Anthracene
Concen: 39.628 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:178 Resp: 1211718

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.5	12.4	18.6

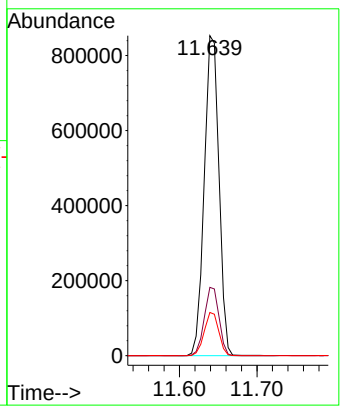




#73
Carbazole
Concen: 39.475 ng
RT: 11.639 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:167 Resp: 112256

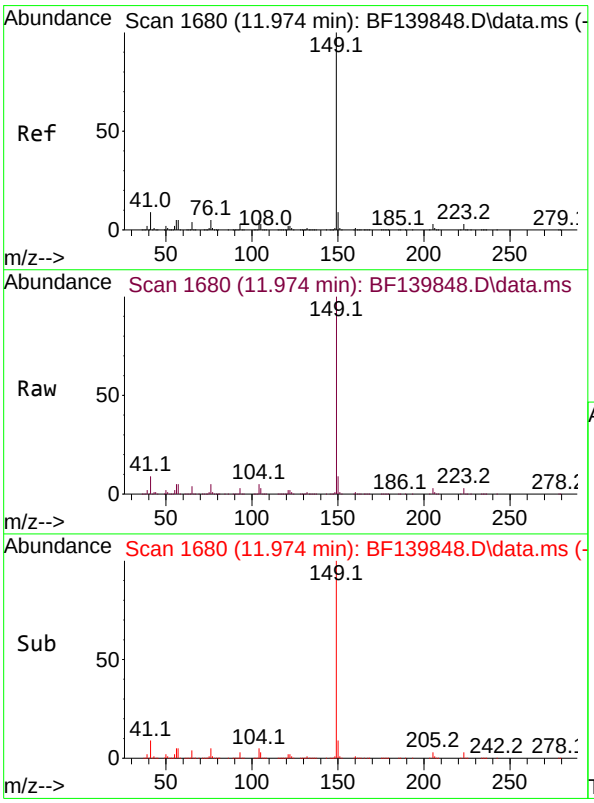
Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.6
139	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

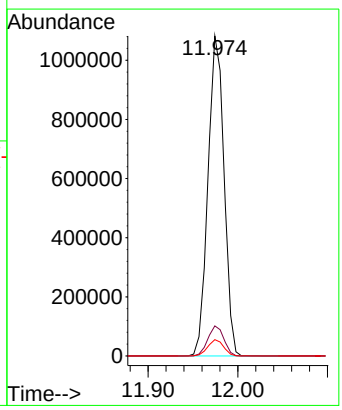
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

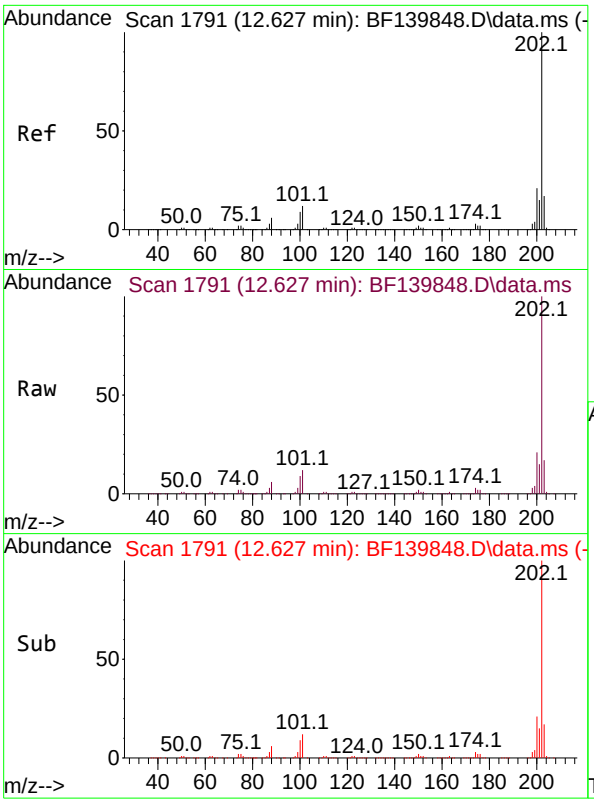


#74
Di-n-butylphthalate
Concen: 40.965 ng
RT: 11.974 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:149 Resp: 1345878

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.5	11.3
104	5.1	4.1	6.1





#75
Fluoranthene
Concen: 39.493 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

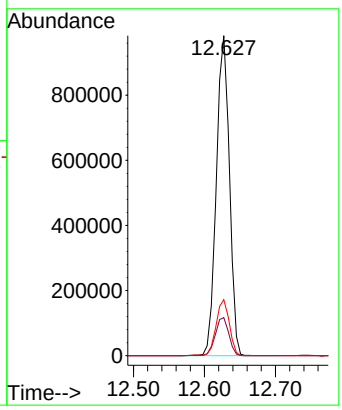
Tgt Ion:202 Resp: 125120

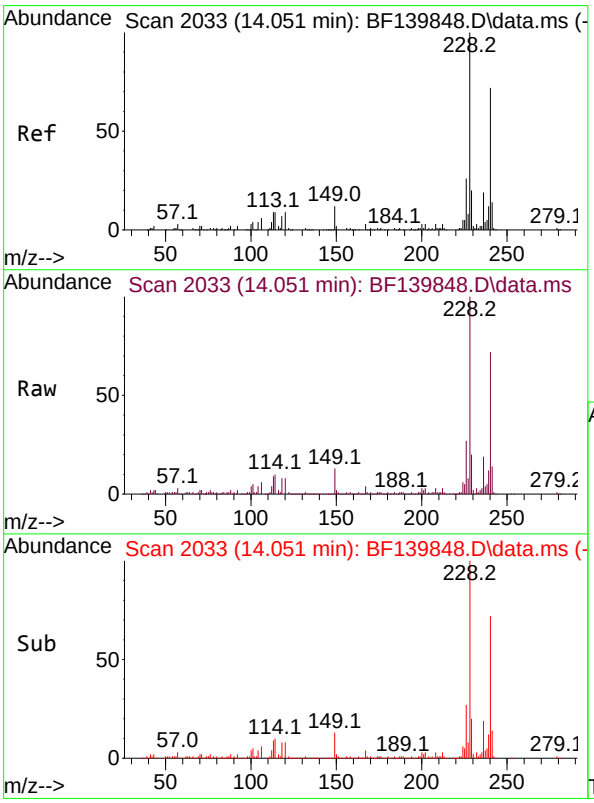
Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	31.9
203	17.5	0.0	37.5

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

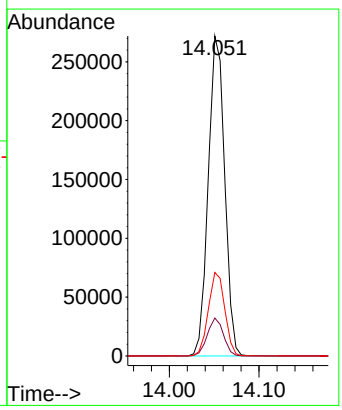


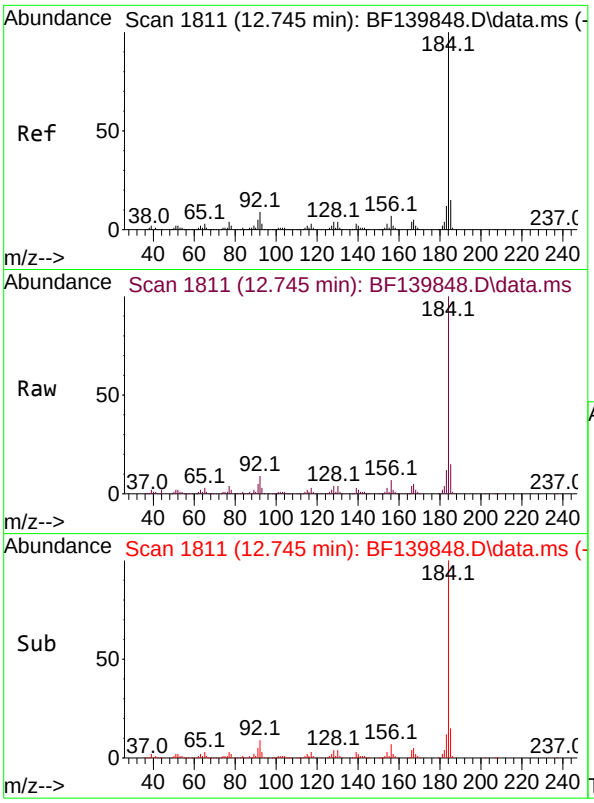


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:240 Resp: 345800

Ion	Ratio	Lower	Upper
240	100		
120	11.8	9.4	14.2
236	26.1	20.9	31.3

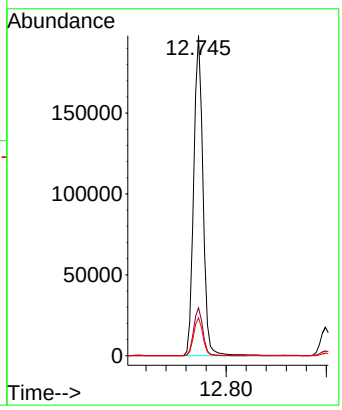




#77
Benzidine
Concen: 44.967 ng
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:184 Resp: 25289

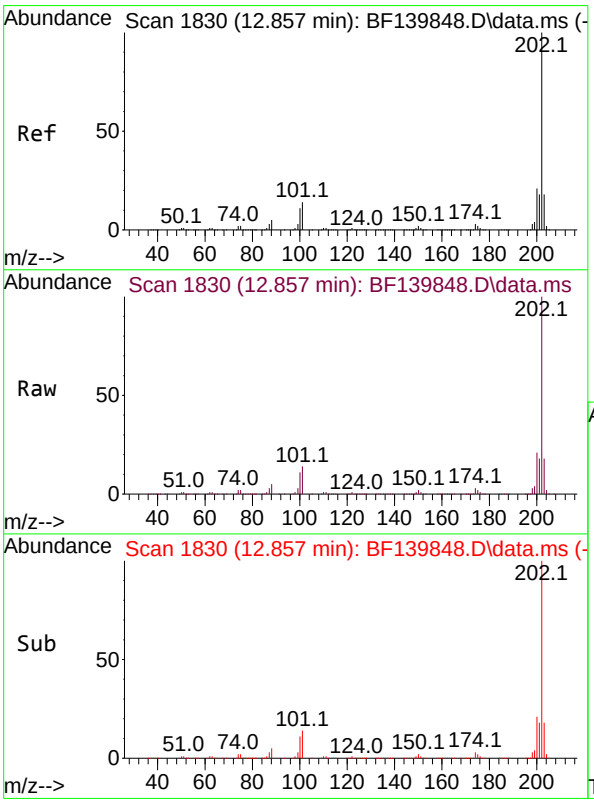
Ion	Ratio	Lower	Upper
184	100		
185	15.0	12.0	18.0
183	11.8	9.4	14.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

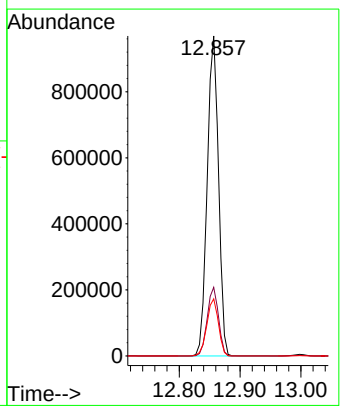
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

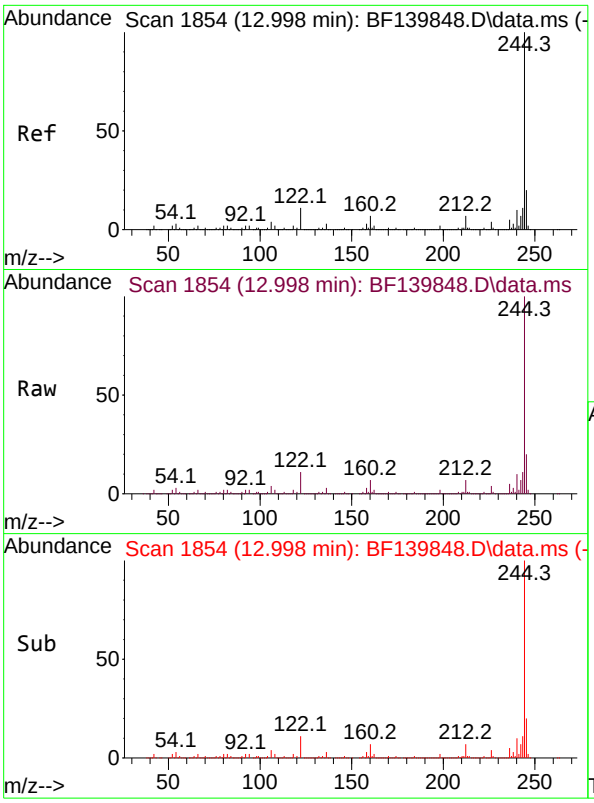


#78
Pyrene
Concen: 41.241 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:202 Resp: 1248309

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8
203	17.8	14.2	21.4

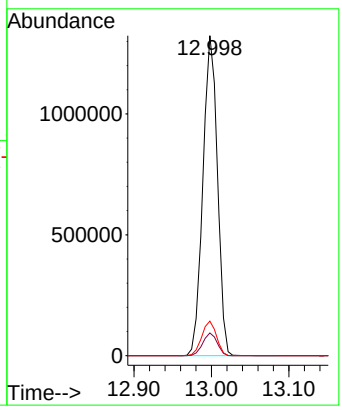




#79
Terphenyl-d14
Concen: 81.103 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:244 Resp: 172112

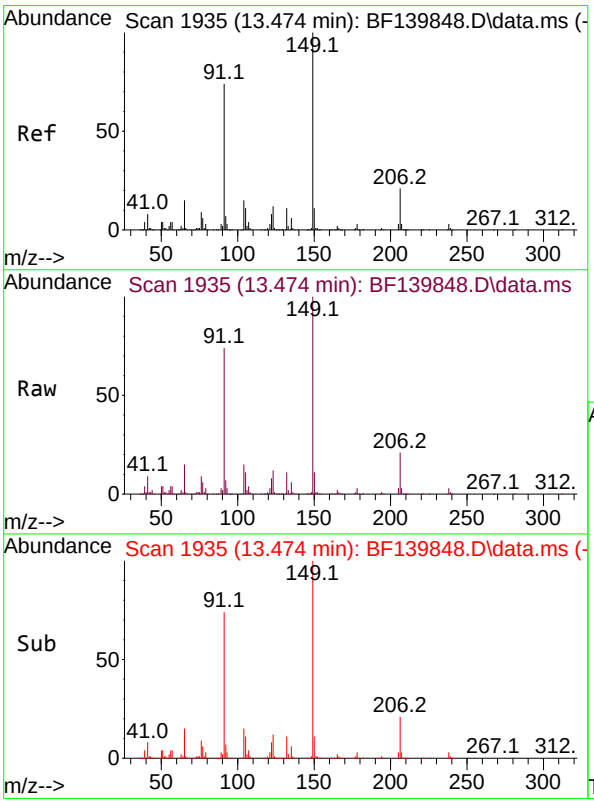
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	10.8	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

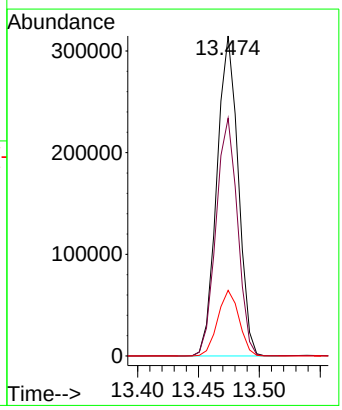
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

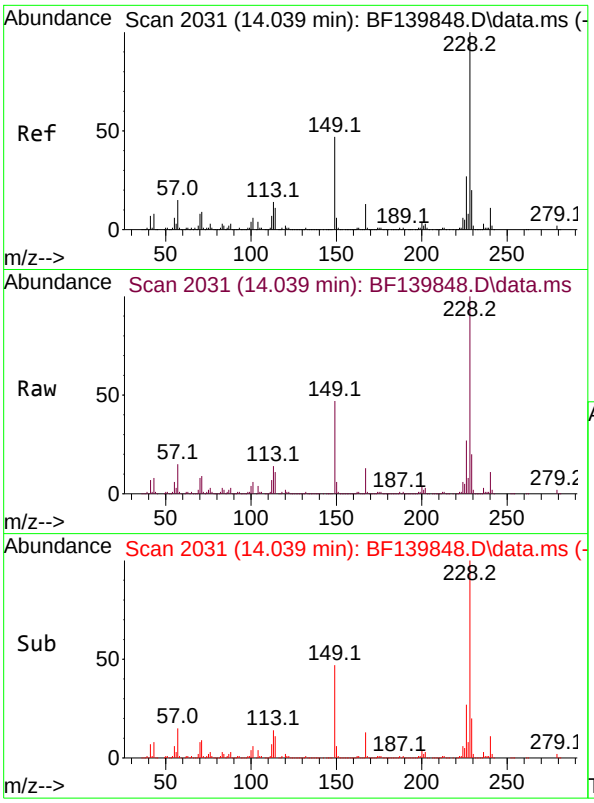


#80
Butylbenzylphthalate
Concen: 42.297 ng
RT: 13.474 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:149 Resp: 383831

Ion	Ratio	Lower	Upper
149	100		
91	74.3	59.4	89.2
206	20.5	16.4	24.6

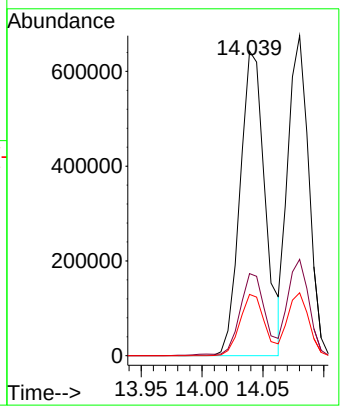




#81
Benzo(a)anthracene
Concen: 40.901 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:228 Resp: 92069

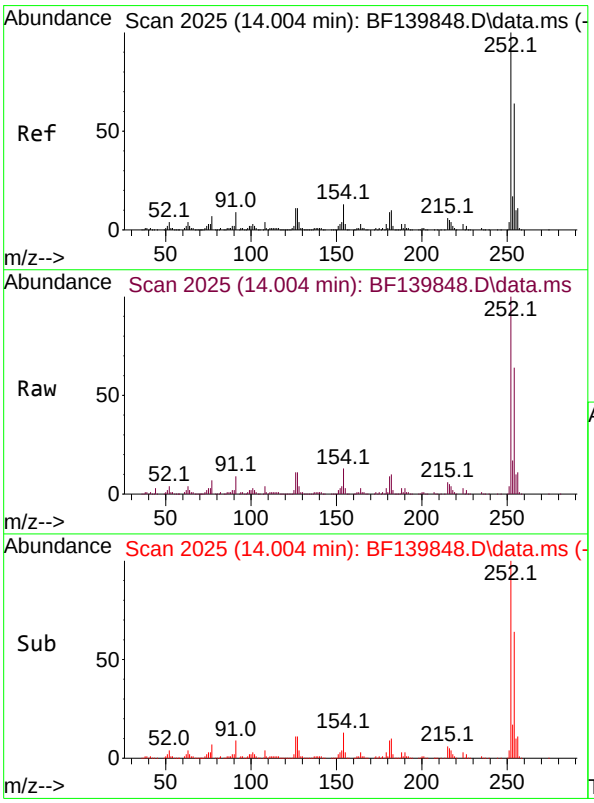
Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.6	32.4
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

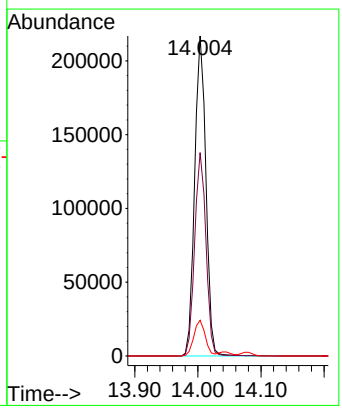
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

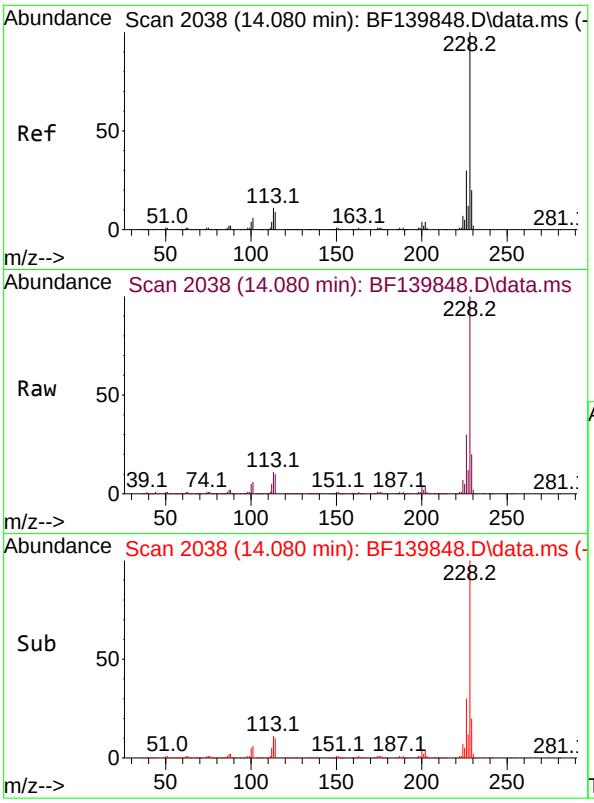


#82
3,3'-Dichlorobenzidine
Concen: 40.798 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:252 Resp: 267769

Ion	Ratio	Lower	Upper
252	100		
254	63.5	50.8	76.2
126	11.1	8.9	13.3

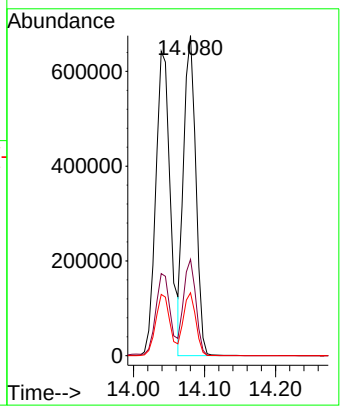




#83
Chrysene
Concen: 39.098 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:228 Resp: 80695

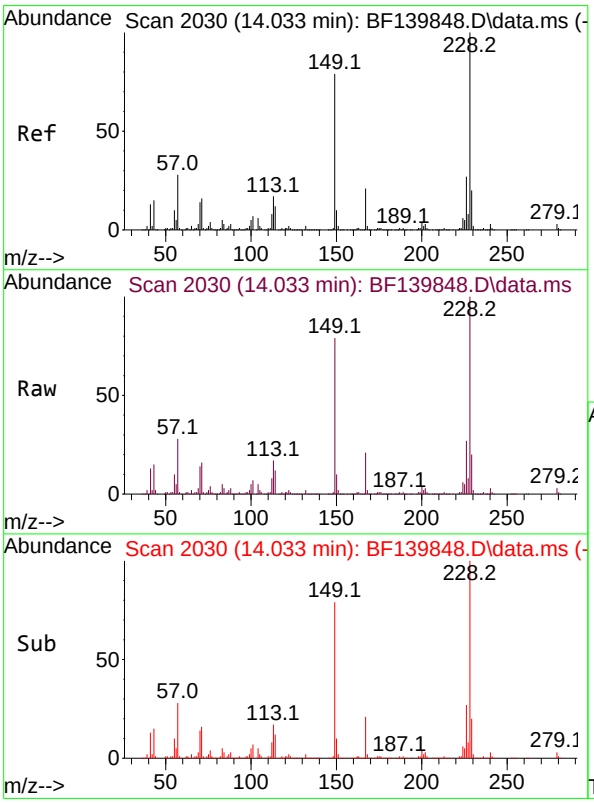
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.1	36.1
229	19.7	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

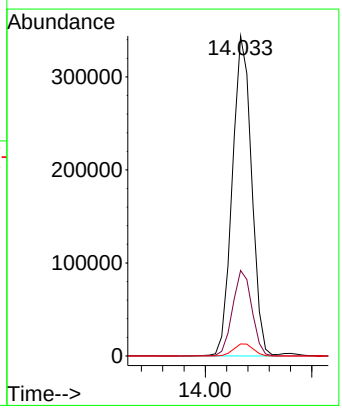
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

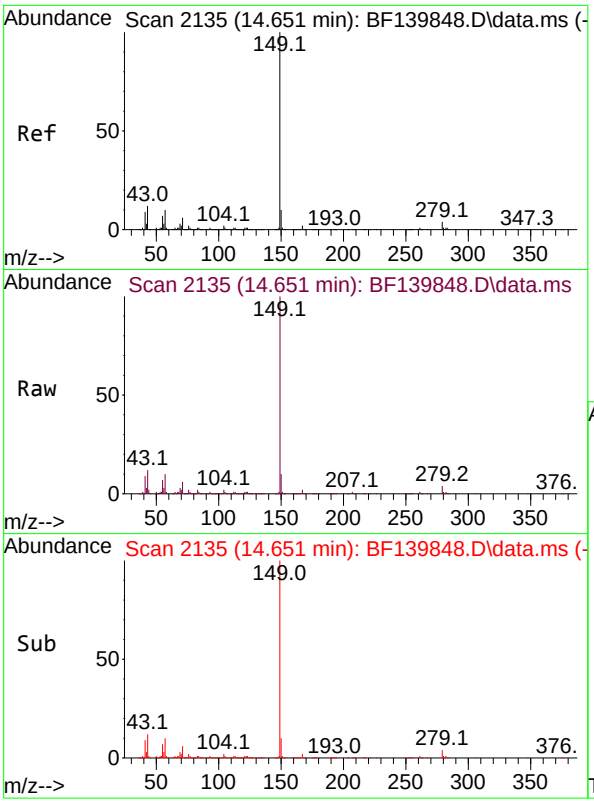


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.504 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:149 Resp: 432750

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.0
279	3.7	3.0	4.4





#85
Di-n-octyl phthalate
Concen: 42.399 ng
RT: 14.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

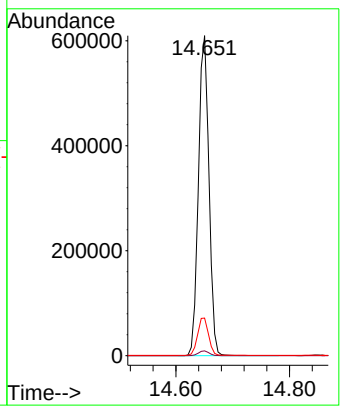
Tgt Ion:149 Resp: 78517

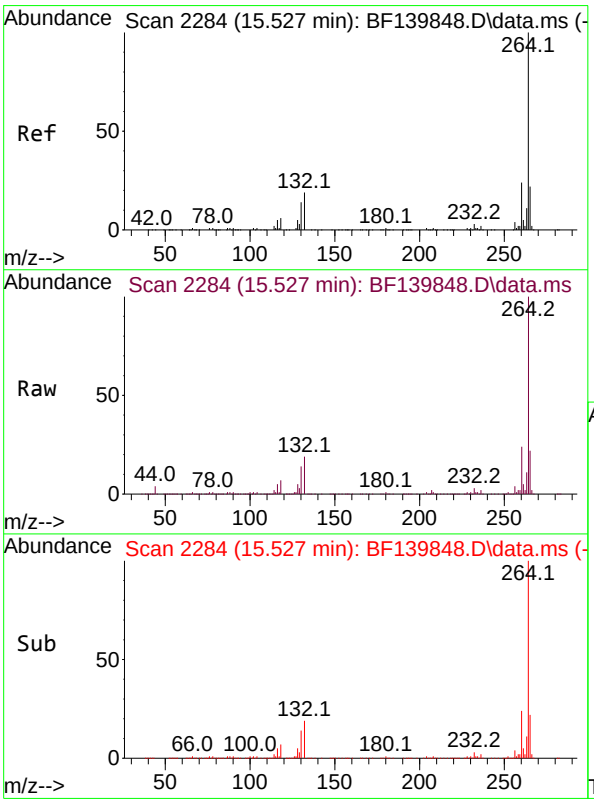
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	12.2	9.8	14.6

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

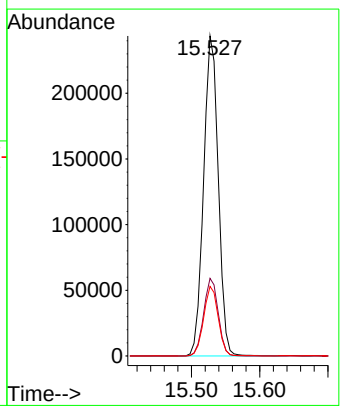


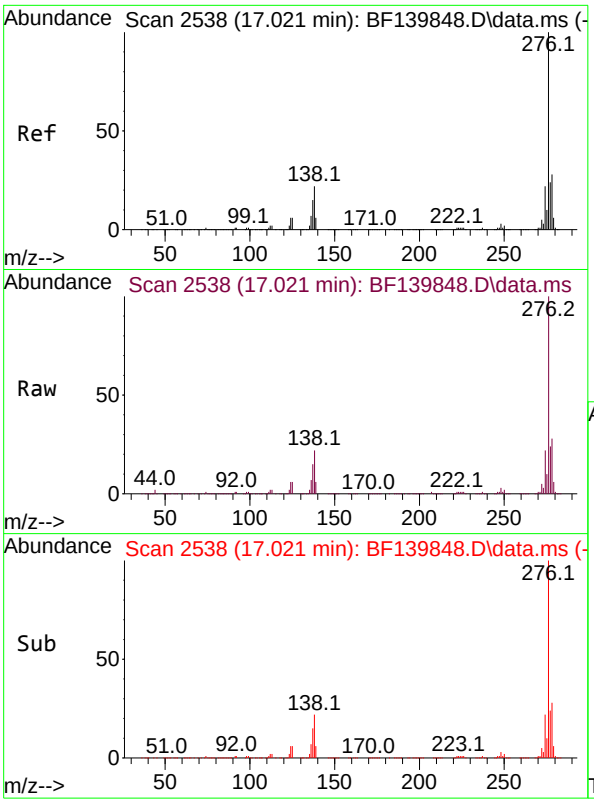


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:264 Resp: 365076

Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.2
265	21.7	17.4	26.0

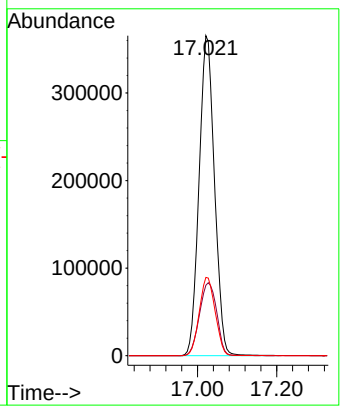




#87
Indeno(1,2,3-cd)pyrene
Concen: 42.039 ng
RT: 17.021 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:276 Resp: 98734

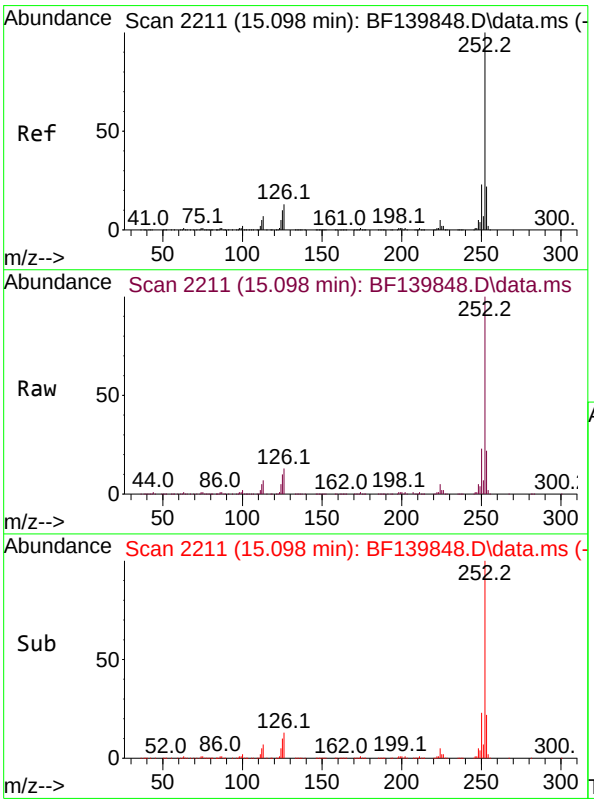
Ion	Ratio	Lower	Upper
276	100		
138	25.5	20.4	30.6
277	25.3	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

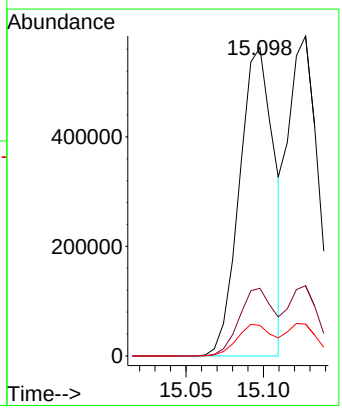
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

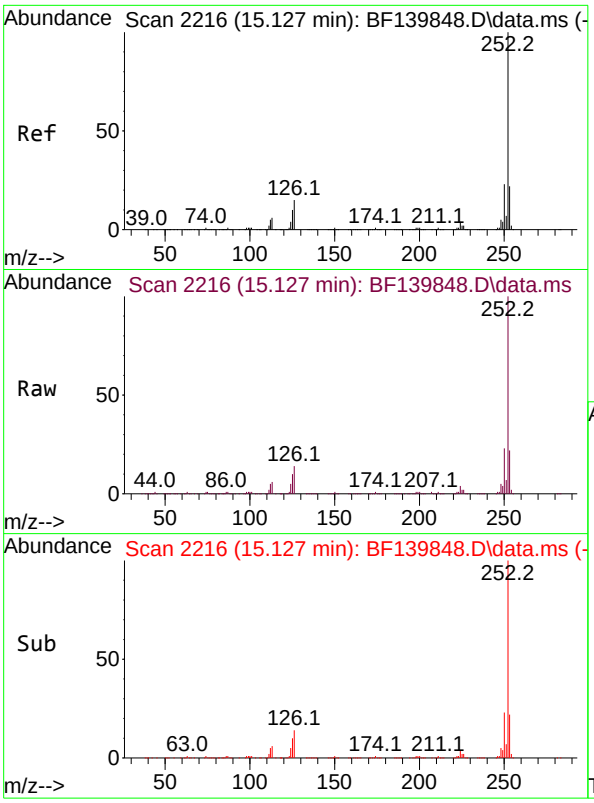


#88
Benzo(b)fluoranthene
Concen: 39.263 ng
RT: 15.098 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:252 Resp: 873168

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	9.9	7.9	11.9

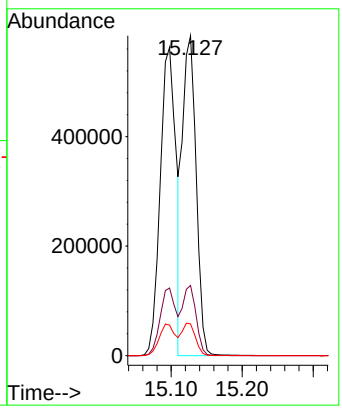




#89
Benzo(k)fluoranthene
Concen: 40.589 ng
RT: 15.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:252 Resp: 77847

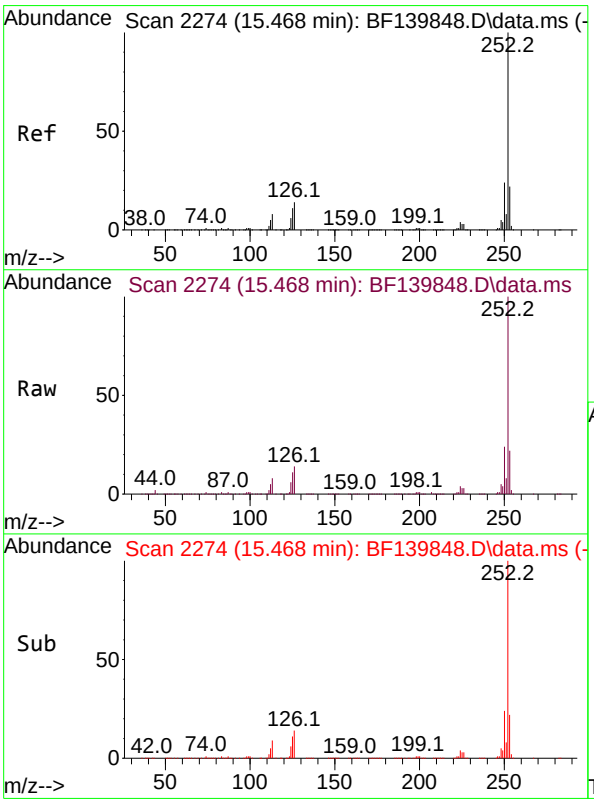
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	9.9	7.9	11.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

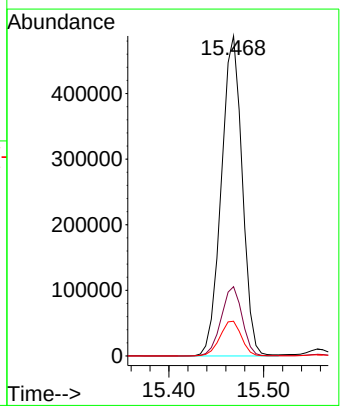
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

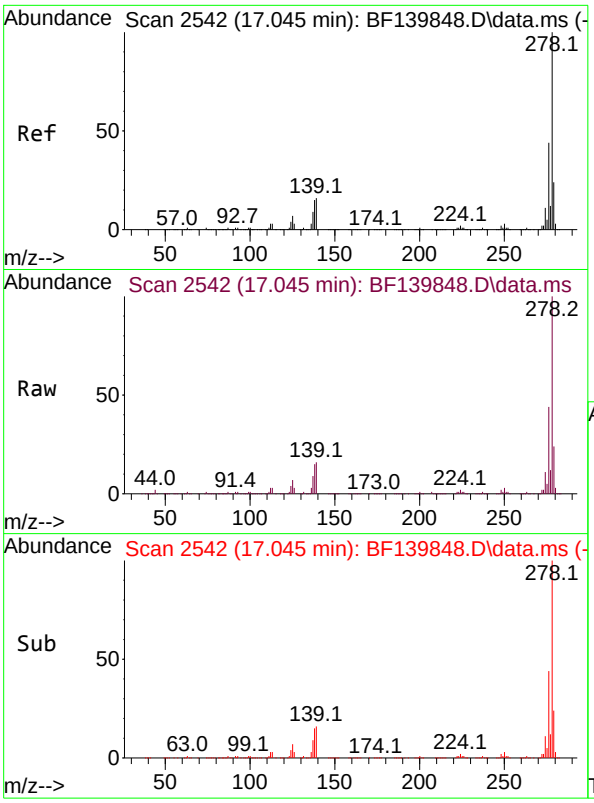


#90
Benzo(a)pyrene
Concen: 40.905 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:252 Resp: 748507

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9
125	10.9	8.7	13.1

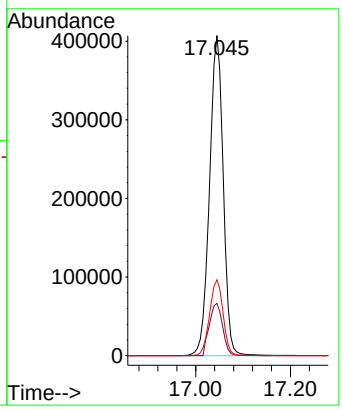




#91
Dibenzo(a,h)anthracene
Concen: 41.752 ng
RT: 17.045 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:278 Resp: 81804

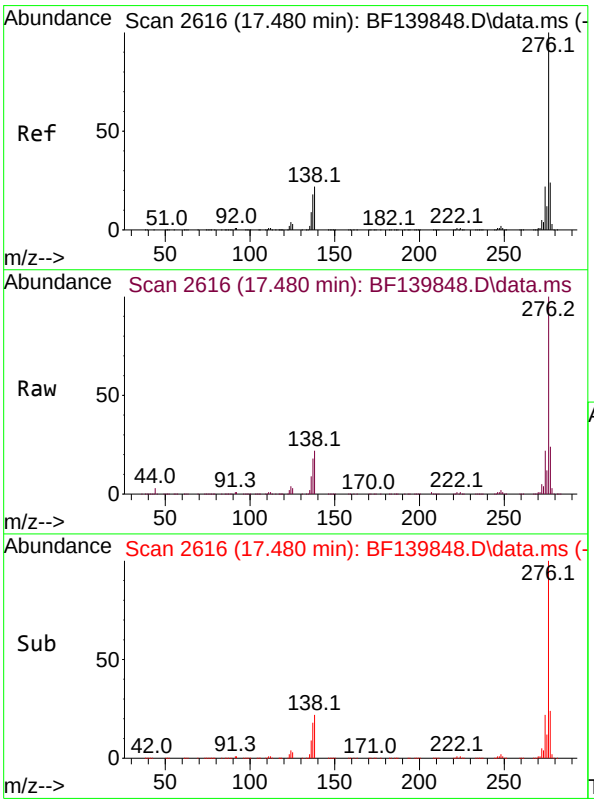
Ion	Ratio	Lower	Upper
278	100		
139	16.4	13.1	19.7
279	23.7	19.0	28.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

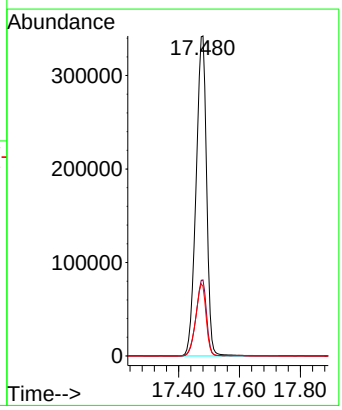
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



#92
Benzo(g,h,i)perylene
Concen: 42.090 ng
RT: 17.480 min Scan# 2616
Delta R.T. 0.000 min
Lab File: BF139848.D
Acq: 18 Oct 2024 12:20

Tgt Ion:276 Resp: 823727

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.6
138	21.7	17.4	26.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139849.D
Acq On : 18 Oct 2024 12:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 18 14:19:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	197235	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	739665	20.000	ng		0.00
39) Acenaphthene-d10	9.927	164	405194	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	694873	20.000	ng		0.00
76) Chrysene-d12	14.051	240	349496	20.000	ng		0.00
86) Perylene-d12	15.527	264	390757	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	1162820	92.295	ng		0.00
7) Phenol-d6	6.510	99	1517079	92.972	ng		0.00
23) Nitrobenzene-d5	7.457	82	1310450	98.193	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	362330	95.600	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	2204460	89.915	ng		0.00
79) Terphenyl-d14	12.998	244	2015874	93.988	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.687	88	281572	47.933	ng		99
3) Pyridine	3.446	79	683175	46.920	ng		99
4) n-Nitrosodimethylamine	3.404	42	385387	49.264	ng		97
6) Aniline	6.557	93	725204	47.686	ng		98
8) 2-Chlorophenol	6.675	128	597810	46.414	ng		98
9) Benzaldehyde	6.439	77	430623	46.911	ng		100
10) Phenol	6.528	94	780406m	45.569	ng		
11) bis(2-Chloroethyl)ether	6.628	93	617014	47.453	ng		99
12) 1,3-Dichlorobenzene	6.834	146	686600	46.439	ng		99
13) 1,4-Dichlorobenzene	6.910	146	686616	46.483	ng		99
14) 1,2-Dichlorobenzene	7.063	146	627851	45.543	ng		99
15) Benzyl Alcohol	7.028	79	569012	47.538	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1043921	47.084	ng		100
17) 2-Methylphenol	7.134	107	519035	47.259	ng		99
18) Hexachloroethane	7.404	117	250100	47.480	ng		100
19) n-Nitroso-di-n-propyla...	7.310	70	454173	45.892	ng		99
20) 3+4-Methylphenols	7.292	107	645650	45.961	ng	#	88
22) Acetophenone	7.304	105	835908	46.140	ng		97
24) Nitrobenzene	7.475	77	707970	48.385	ng		100
25) Isophorone	7.710	82	1205277	47.583	ng		99
26) 2-Nitrophenol	7.786	139	292634	53.013	ng		99
27) 2,4-Dimethylphenol	7.822	122	439040	47.699	ng		98
28) bis(2-Chloroethoxy)met...	7.922	93	728968	47.500	ng		100
29) 2,4-Dichlorophenol	8.028	162	502930	47.971	ng		98
30) 1,2,4-Trichlorobenzene	8.116	180	550757	47.476	ng		99
31) Naphthalene	8.198	128	1770616	46.415	ng		100
32) Benzoic acid	7.933	122	426532	53.131	ng		100
33) 4-Chloroaniline	8.245	127	613822	47.189	ng		99
34) Hexachlorobutadiene	8.316	225	343002	47.058	ng		100
35) Caprolactam	8.616	113	162260	48.675	ng		98
36) 4-Chloro-3-methylphenol	8.716	107	553487	47.678	ng		99
37) 2-Methylnaphthalene	8.886	142	1085491	46.462	ng		99
38) 1-Methylnaphthalene	8.986	142	1052879	45.933	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	518960	47.474	ng		99
41) Hexachlorocyclopentadiene	9.039	237	188234	49.488	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	367373	47.468	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139849.D
Acq On : 18 Oct 2024 12:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:19:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	385963	48.336	ng		98
46) 1,1'-Biphenyl	9.351	154	1301562	46.143	ng		99
47) 2-Chloronaphthalene	9.375	162	1061417	46.720	ng		99
48) 2-Nitroaniline	9.469	65	358283	51.564	ng		97
49) Acenaphthylene	9.792	152	1526583	46.479	ng		99
50) Dimethylphthalate	9.651	163	1187472	47.050	ng		99
51) 2,6-Dinitrotoluene	9.710	165	277023	50.693	ng		99
52) Acenaphthene	9.963	154	989603	46.576	ng		100
53) 3-Nitroaniline	9.880	138	279467	49.591	ng		100
54) 2,4-Dinitrophenol	9.980	184	102786	48.105	ng	#	18
55) Dibenzofuran	10.133	168	1407211	46.162	ng		99
56) 4-Nitrophenol	10.022	139	221410	51.068	ng		97
57) 2,4-Dinitrotoluene	10.110	165	348628	51.878	ng		97
58) Fluorene	10.480	166	1042268	44.889	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	300306	47.975	ng		99
60) Diethylphthalate	10.351	149	1180411	47.634	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	532654	45.427	ng		98
62) 4-Nitroaniline	10.492	138	266320	50.037	ng		99
63) Azobenzene	10.633	77	1231644	46.881	ng		98
65) 4,6-Dinitro-2-methylph...	10.522	198	156461	55.202	ng		94
66) n-Nitrosodiphenylamine	10.586	169	987295	47.472	ng		100
67) 4-Bromophenyl-phenylether	10.963	248	341790	47.746	ng		97
68) Hexachlorobenzene	11.027	284	376968	46.823	ng		98
69) Atrazine	11.110	200	234998	41.713	ng		99
70) Pentachlorophenol	11.216	266	252064	51.587	ng		98
71) Phenanthrene	11.439	178	1500010	45.700	ng		99
72) Anthracene	11.492	178	1478655	46.172	ng		99
73) Carbazole	11.645	167	1348098	45.263	ng		99
74) Di-n-butylphthalate	11.974	149	1602928	46.583	ng		100
75) Fluoranthene	12.627	202	1462936	44.089	ng		99
77) Benzidine	12.745	184	240940	42.388	ng		99
78) Pyrene	12.857	202	1471893	48.113	ng		100
80) Butylbenzylphthalate	13.474	149	467242	50.944	ng		100
81) Benzo(a)anthracene	14.045	228	1107235	48.667	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	326706	49.251	ng		98
83) Chrysene	14.080	228	990517	47.484	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	541828	52.655	ng		100
85) Di-n-octyl phthalate	14.651	149	1033054	55.195	ng		100
87) Indeno(1,2,3-cd)pyrene	17.027	276	1268552	50.463	ng		100
88) Benzo(b)fluoranthene	15.098	252	1079928	45.369	ng		100
89) Benzo(k)fluoranthene	15.127	252	1006425	49.026	ng		99
90) Benzo(a)pyrene	15.468	252	951346	48.573	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	1058119	50.456	ng		100
92) Benzo(g,h,i)perylene	17.480	276	1055618	50.394	ng		99

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

ICAL Form

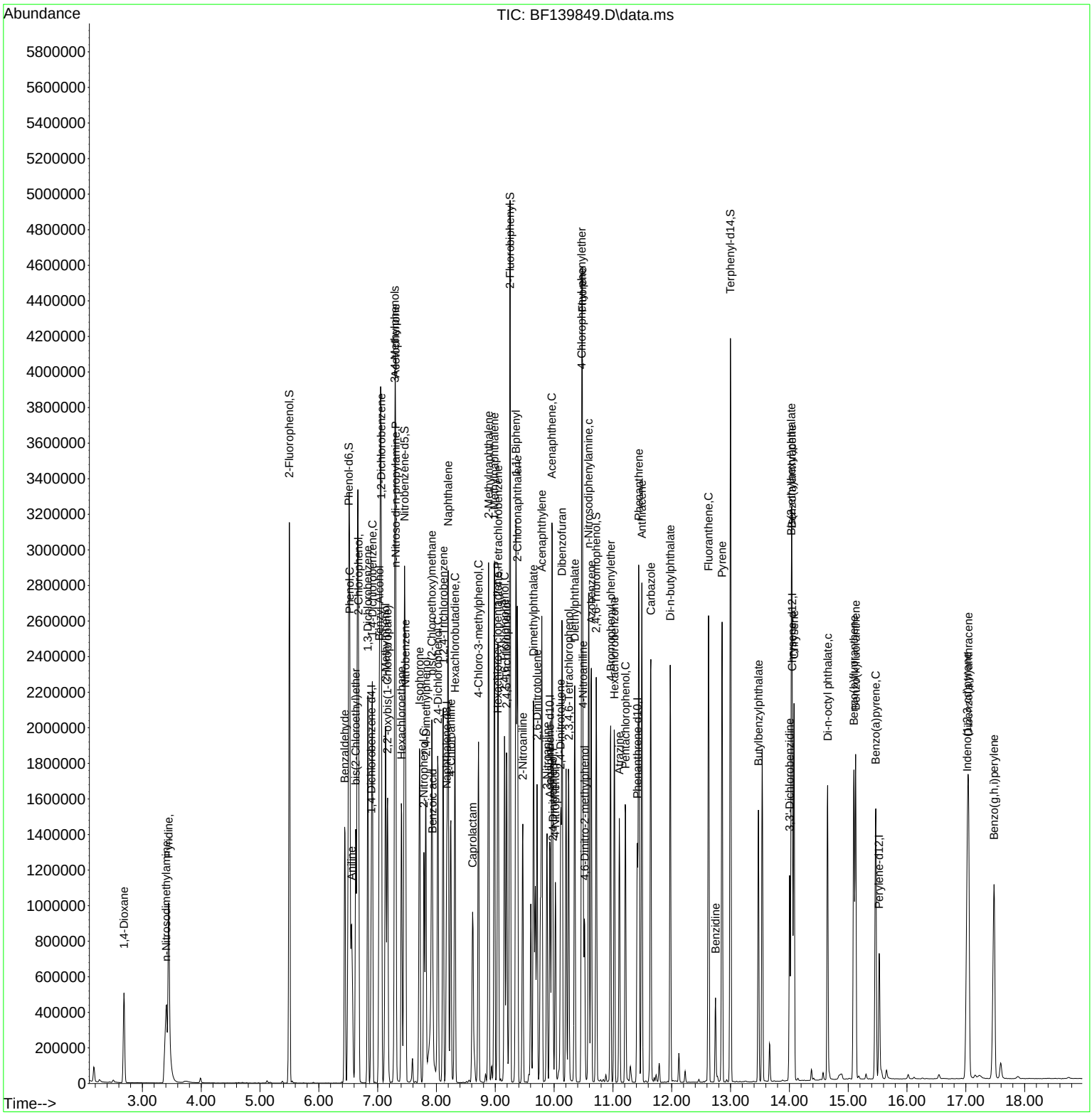
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139849.D
Acq On : 18 Oct 2024 12:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

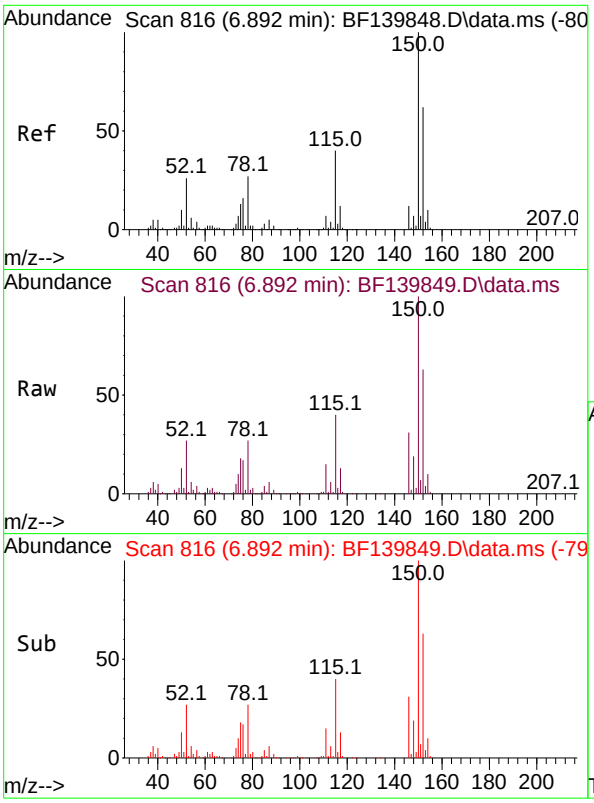
Quant Time: Oct 18 14:19:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

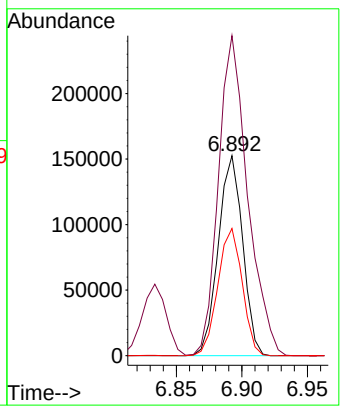




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:152 Resp: 19723

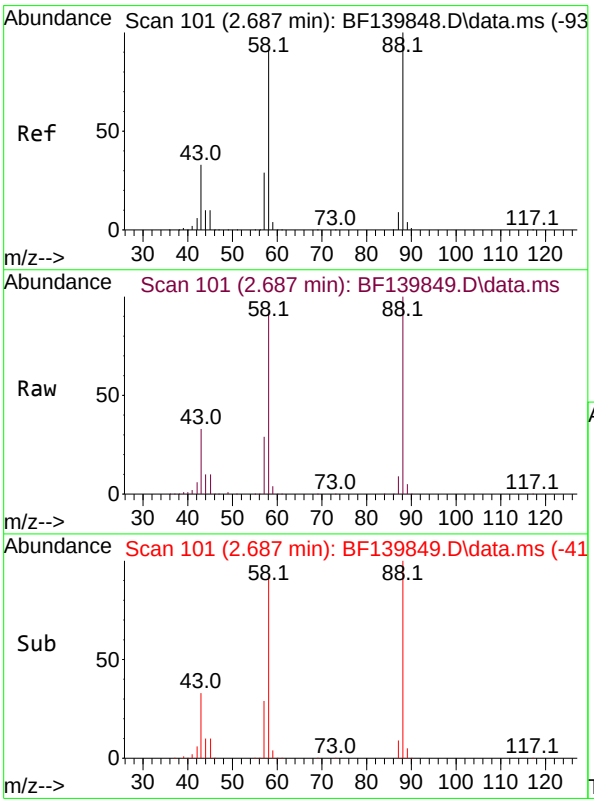
Ion	Ratio	Lower	Upper
152	100		
150	160.0	130.2	195.2
115	63.6	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

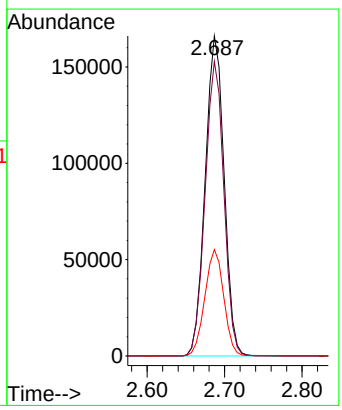
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

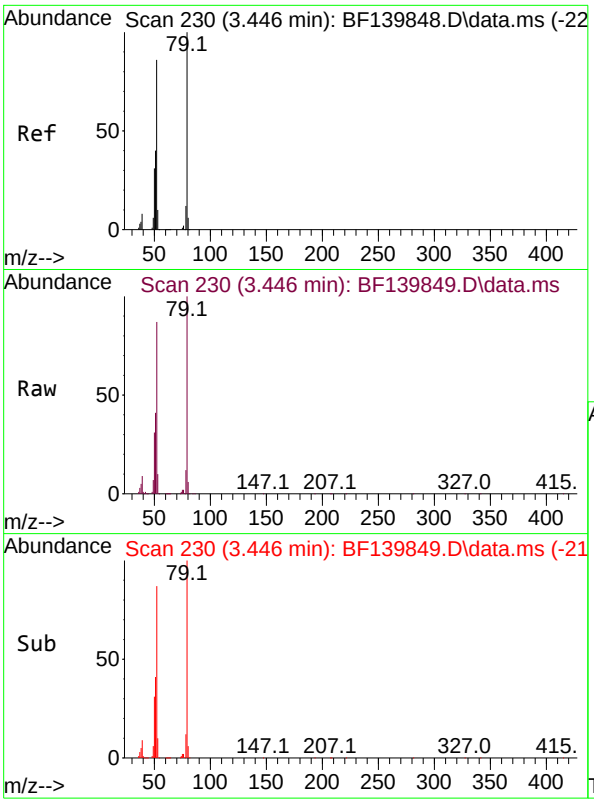


#2
1,4-Dioxane
Concen: 47.933 ng
RT: 2.687 min Scan# 101
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 88 Resp: 281572

Ion	Ratio	Lower	Upper
88	100		
58	91.1	73.3	109.9
43	33.2	27.1	40.7

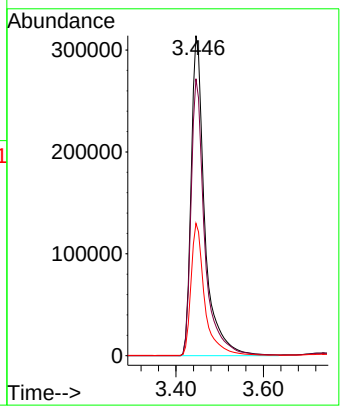




#3
Pyridine
Concen: 46.920 ng
RT: 3.446 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 79 Resp: 68317

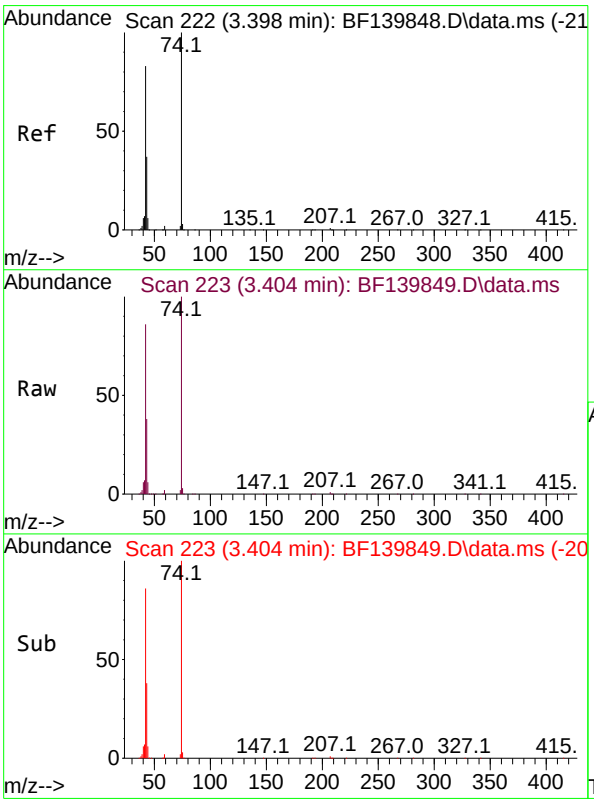
Ion	Ratio	Lower	Upper
79	100		
52	86.6	68.5	102.7
51	41.3	32.3	48.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

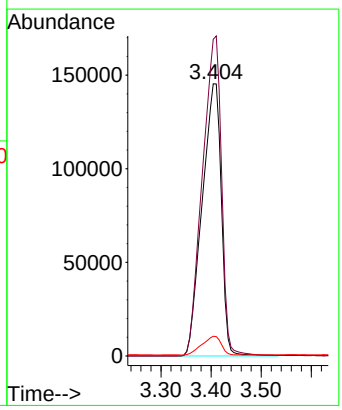
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

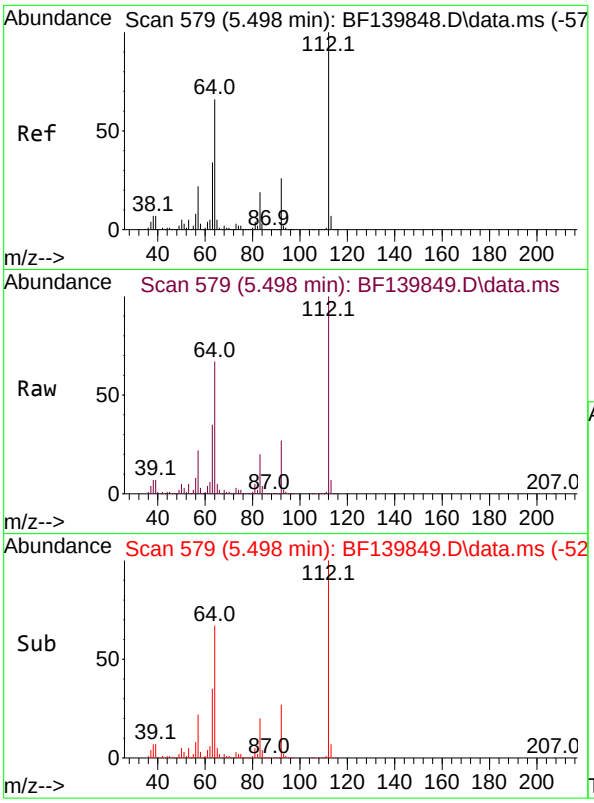


#4
n-Nitrosodimethylamine
Concen: 49.264 ng
RT: 3.404 min Scan# 223
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 42 Resp: 385387

Ion	Ratio	Lower	Upper
42	100		
74	116.3	96.2	144.4
44	7.2	6.2	9.2





#5
2-Fluorophenol
Concen: 92.295 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

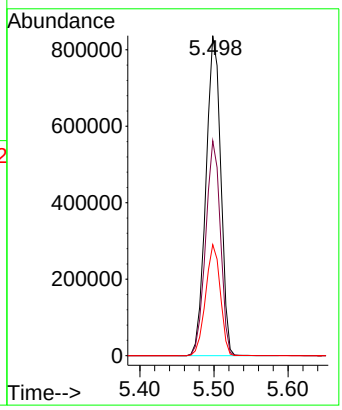
Tgt Ion:112 Resp: 116282

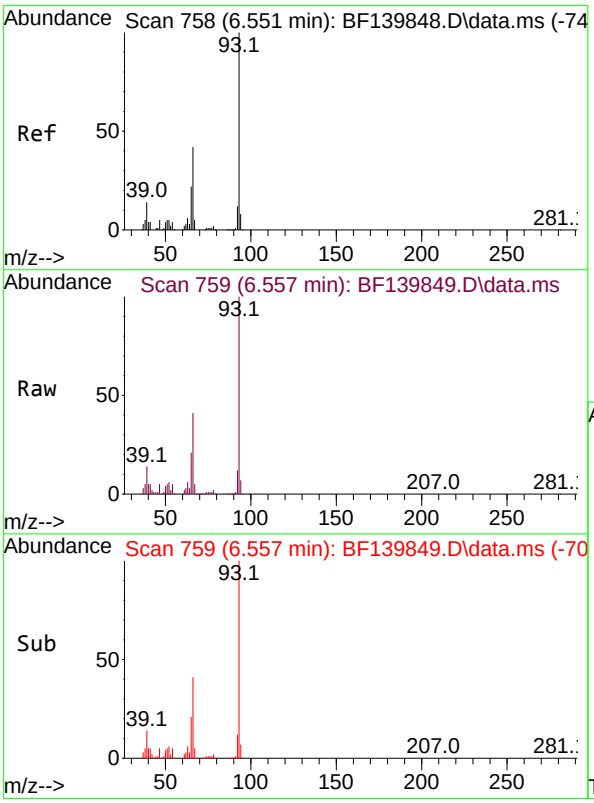
Ion	Ratio	Lower	Upper
112	100		
64	67.1	53.0	79.6
63	34.7	27.0	40.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

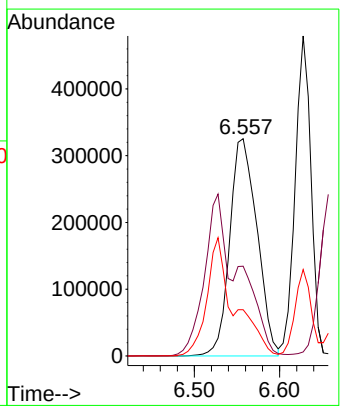


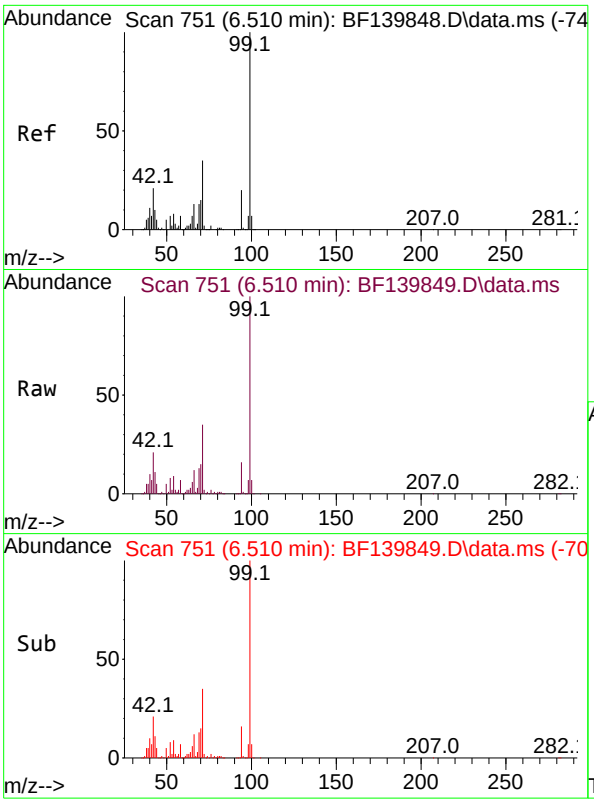


#6
Aniline
Concen: 47.686 ng
RT: 6.557 min Scan# 759
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 93 Resp: 725204

Ion	Ratio	Lower	Upper
93	100		
66	41.3	34.0	51.0
65	21.3	17.4	26.0

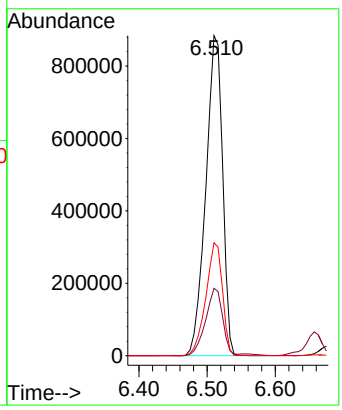




#7
Phenol-d6
Concen: 92.972 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 99 Resp: 151707

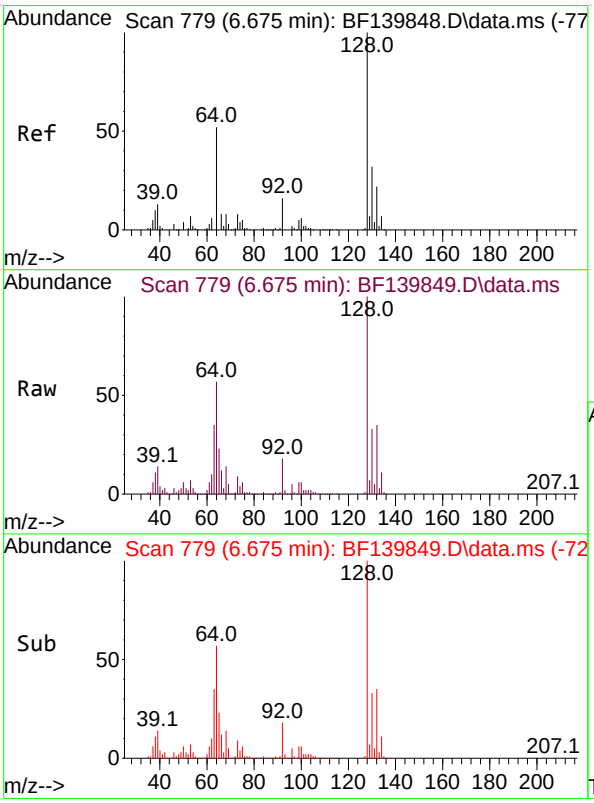
Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.7	25.1
71	35.3	27.7	41.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

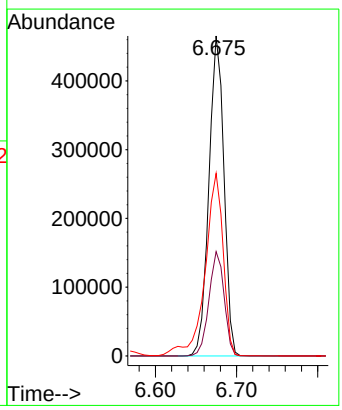
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

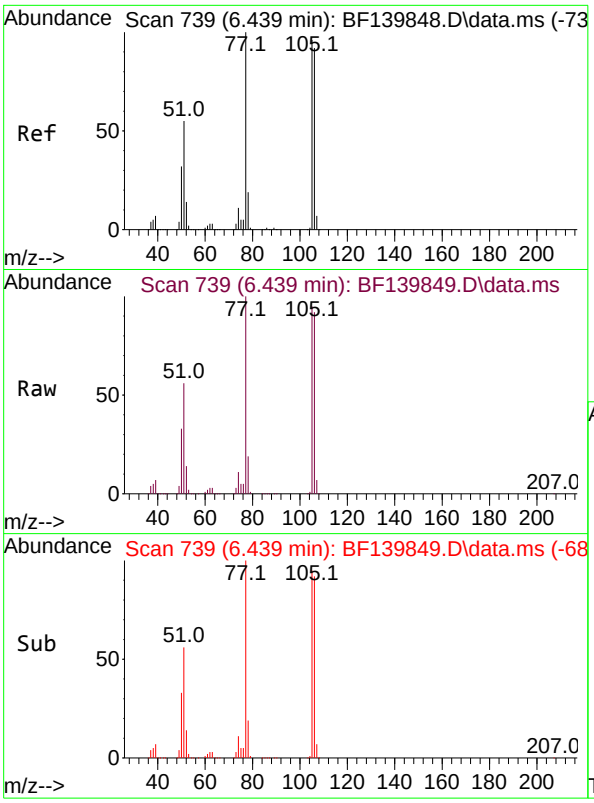


#8
2-Chlorophenol
Concen: 46.414 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:128 Resp: 597810

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.3	52.3
64	57.0	34.6	74.6

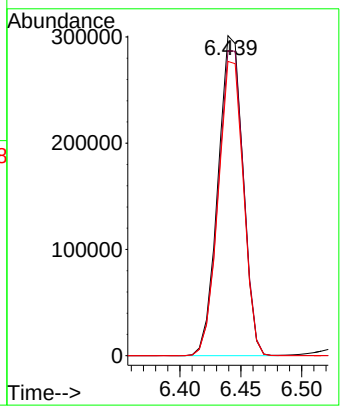




#9
Benzaldehyde
Concen: 46.911 ng
RT: 6.439 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 77 Resp: 43062

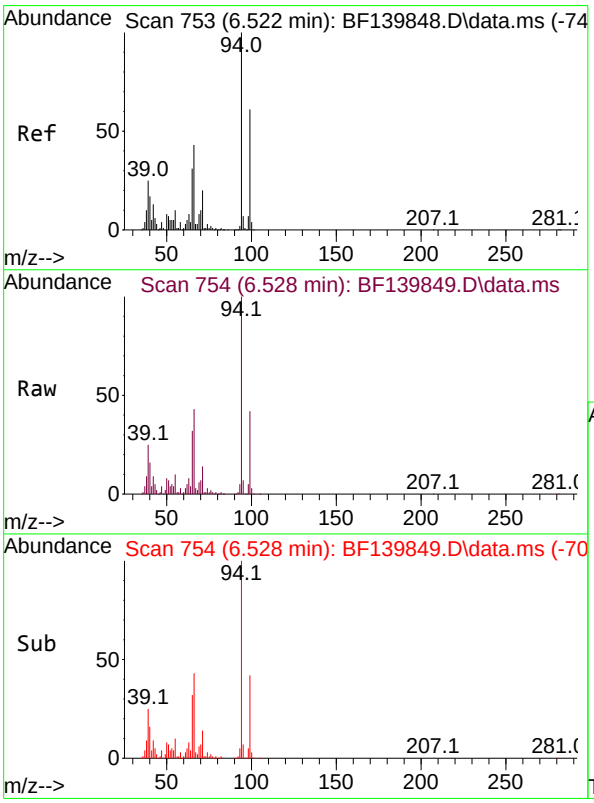
Ion	Ratio	Lower	Upper
77	100		
105	95.2	75.5	115.5
106	92.0	71.7	111.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

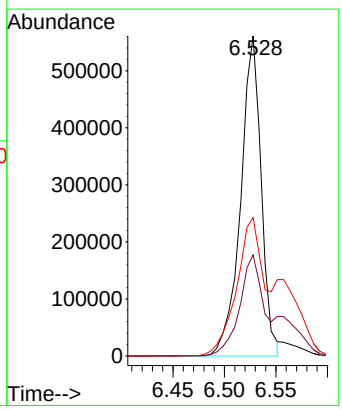
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

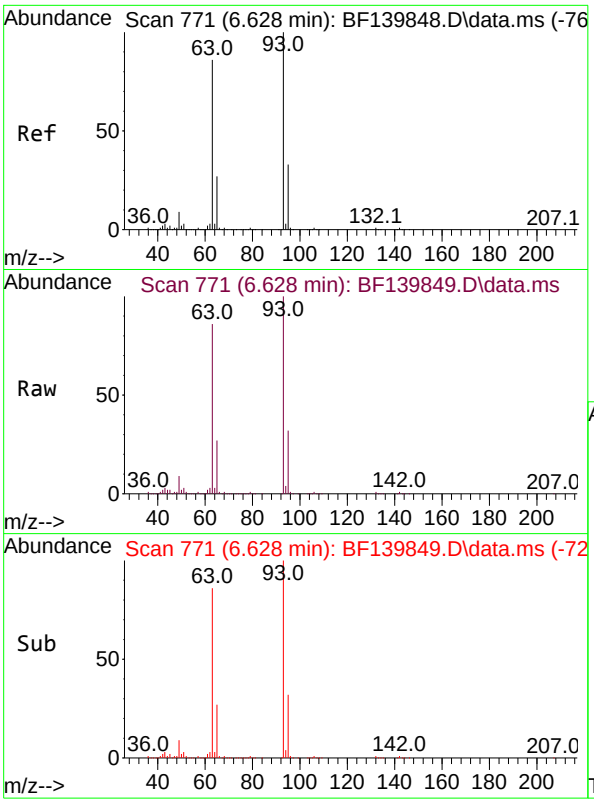


#10
Phenol
Concen: 45.569 ng m
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 94 Resp: 780406

Ion	Ratio	Lower	Upper
94	100		
65	31.6	11.1	51.1
66	43.3	22.7	62.7

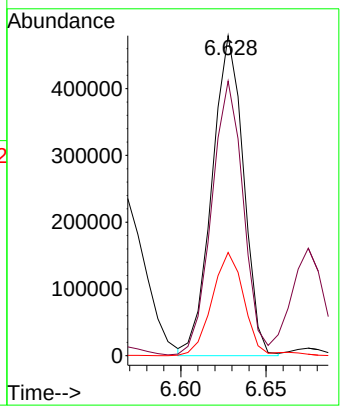




#11
bis(2-Chloroethyl)ether
Concen: 47.453 ng
RT: 6.628 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 93 Resp: 61701

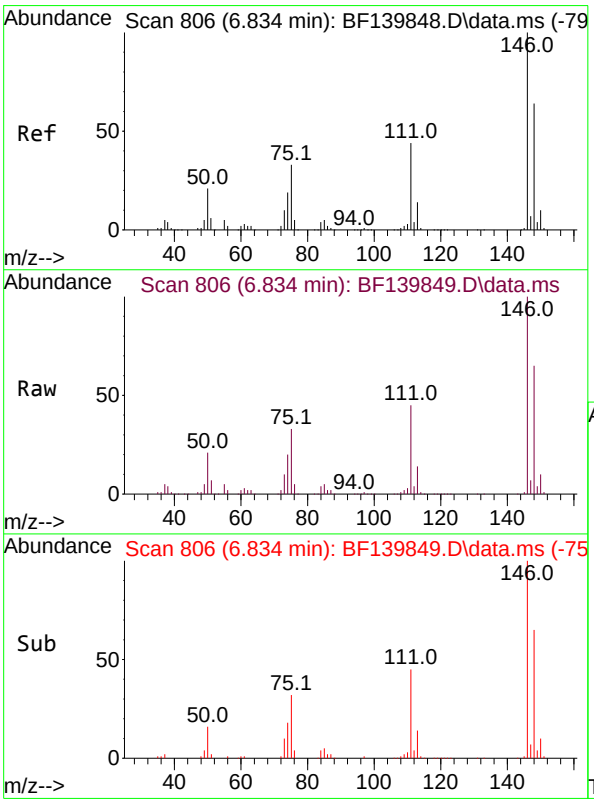
Ion	Ratio	Lower	Upper
93	100		
63	85.8	65.0	105.0
95	32.2	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

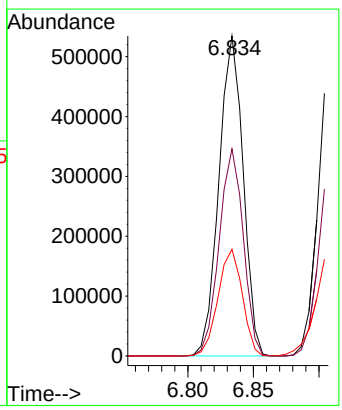
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

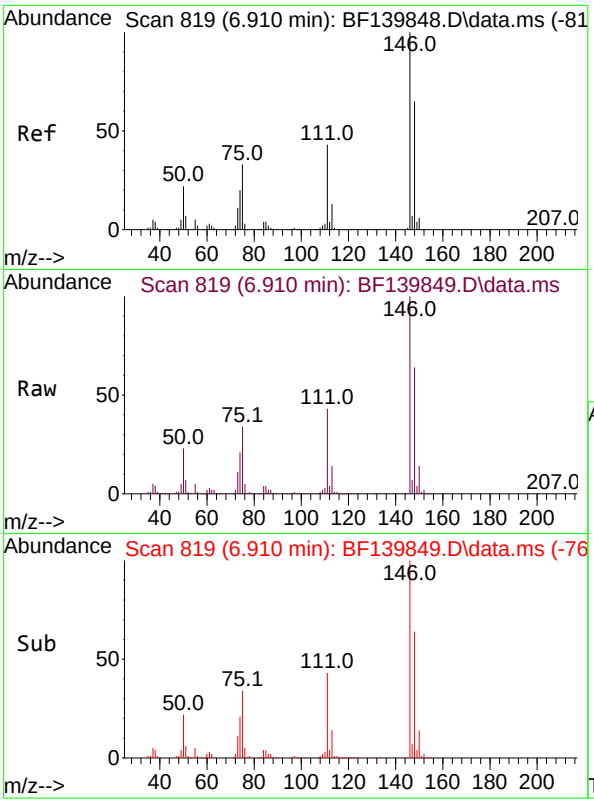


#12
1,3-Dichlorobenzene
Concen: 46.439 ng
RT: 6.834 min Scan# 806
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:146 Resp: 686600

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.0	76.4
75	33.3	26.4	39.6

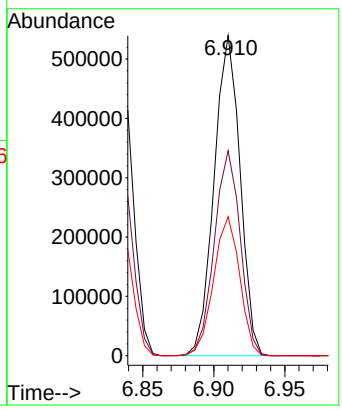




#13
1,4-Dichlorobenzene
Concen: 46.483 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:146 Resp: 68661

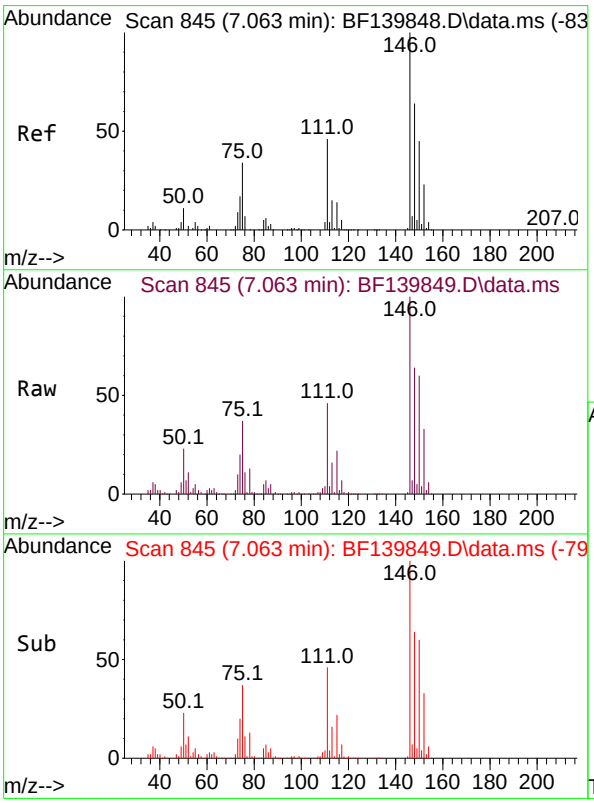
Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.8	77.8
111	43.4	34.6	51.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

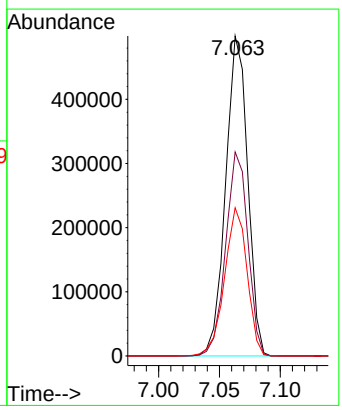
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

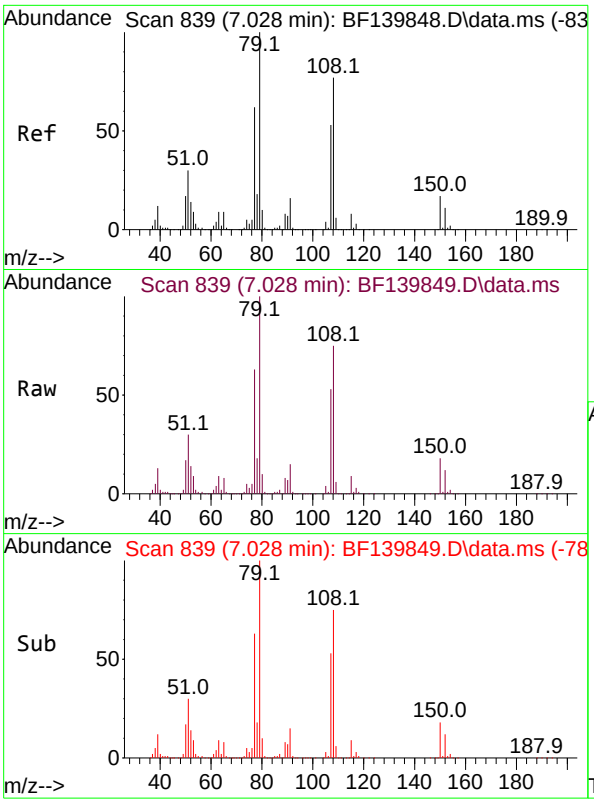


#14
1,2-Dichlorobenzene
Concen: 45.543 ng
RT: 7.063 min Scan# 845
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:146 Resp: 627851

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.4	77.2
111	46.3	36.7	55.1





#15
Benzyl Alcohol
Concen: 47.538 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

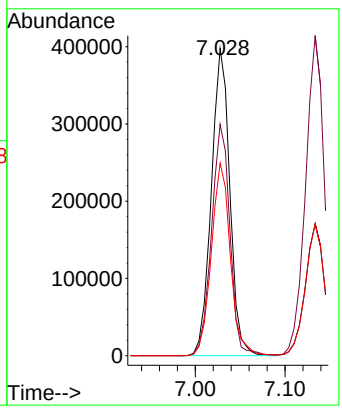
Tgt Ion: 79 Resp: 56901

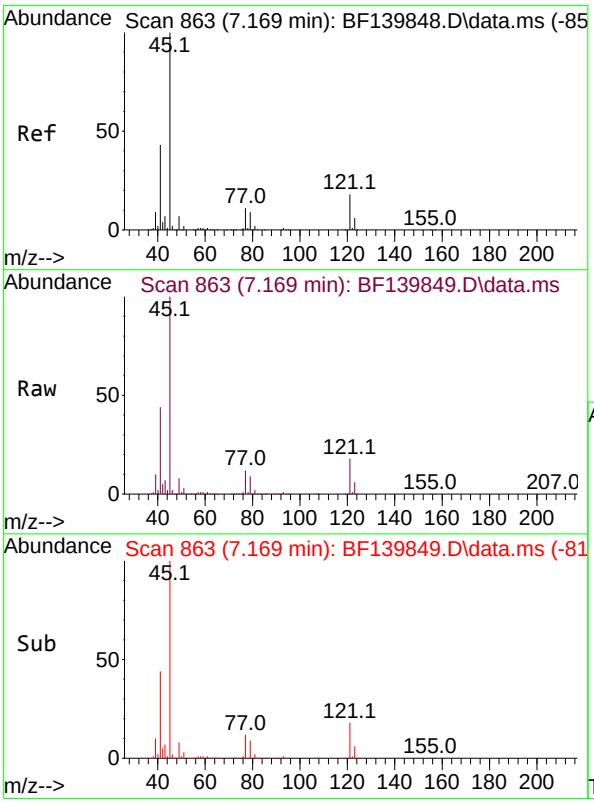
Ion	Ratio	Lower	Upper
79	100		
108	75.3	61.4	92.0
77	62.7	49.9	74.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

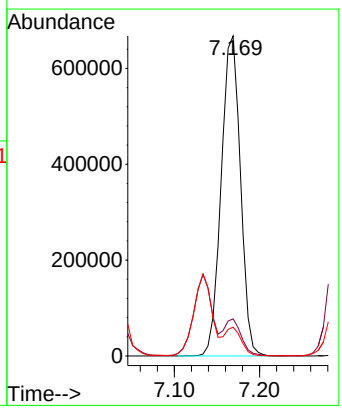


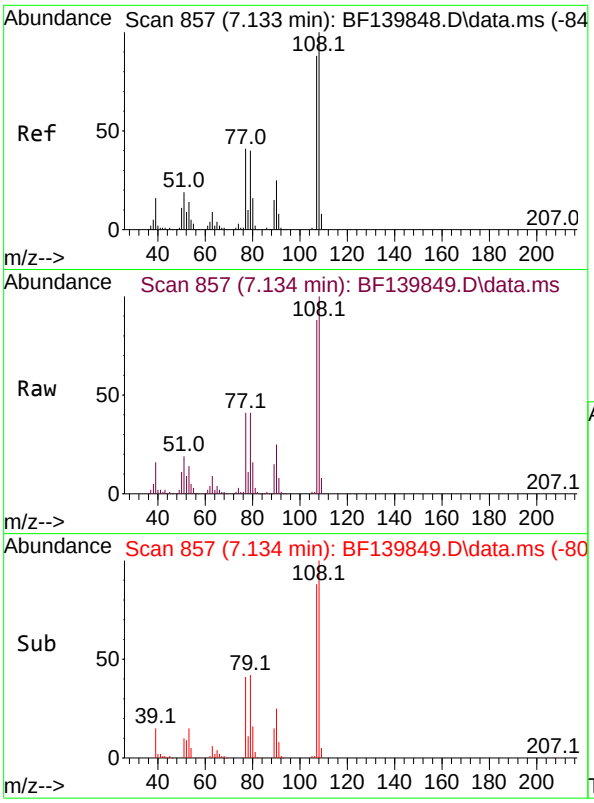


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.084 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 45 Resp: 1043921

Ion	Ratio	Lower	Upper
45	100		
77	11.6	0.0	31.5
79	9.0	0.0	29.1

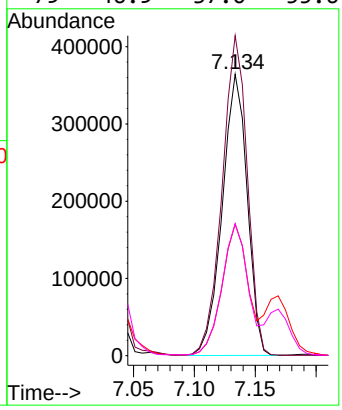




#17
2-Methylphenol
Concen: 47.259 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:107 Resp: 51903

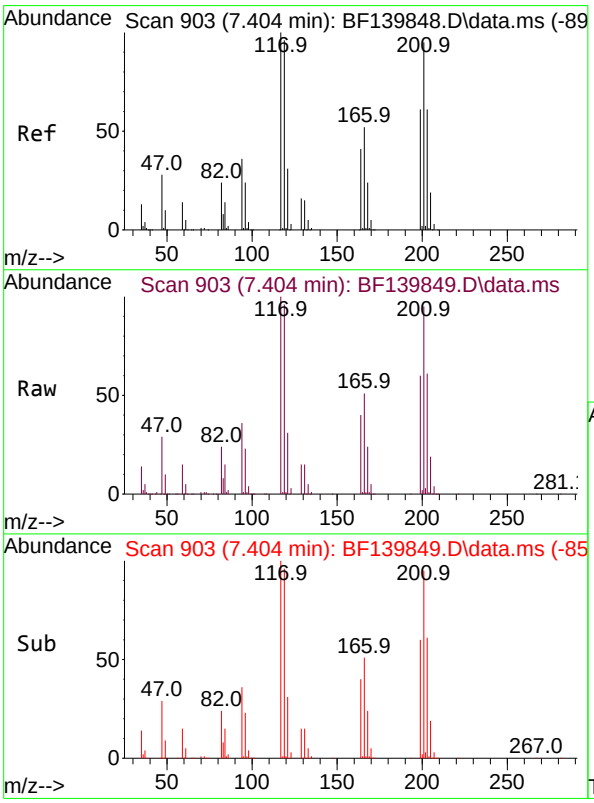
Ion	Ratio	Lower	Upper
107	100		
108	113.7	91.3	136.9
77	46.7	37.1	55.7
79	46.9	37.0	55.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

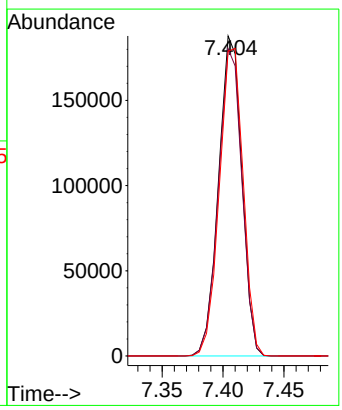
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

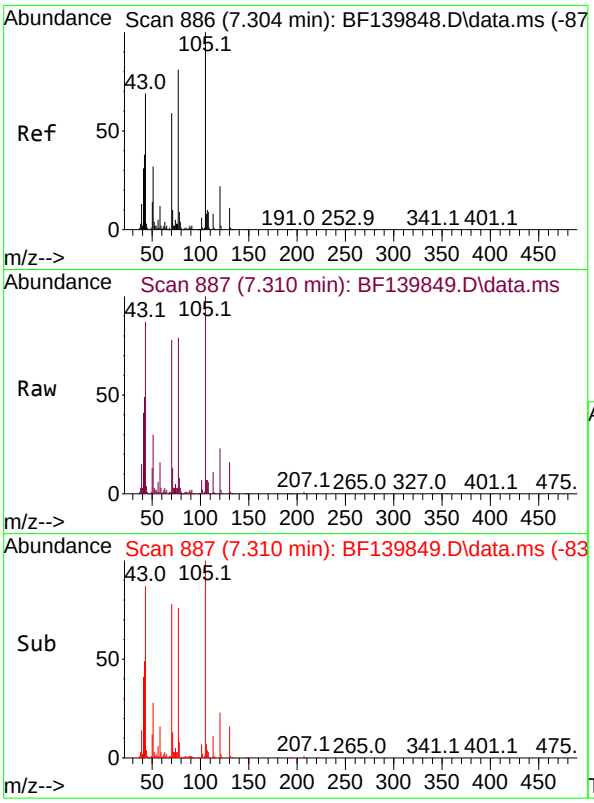


#18
Hexachloroethane
Concen: 47.480 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:117 Resp: 250100

Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.0	115.4
201	95.3	76.2	114.4

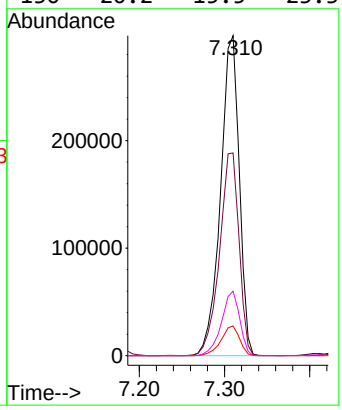




#19
n-Nitroso-di-n-propylamine
Concen: 45.892 ng
RT: 7.310 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 70 Resp: 45417

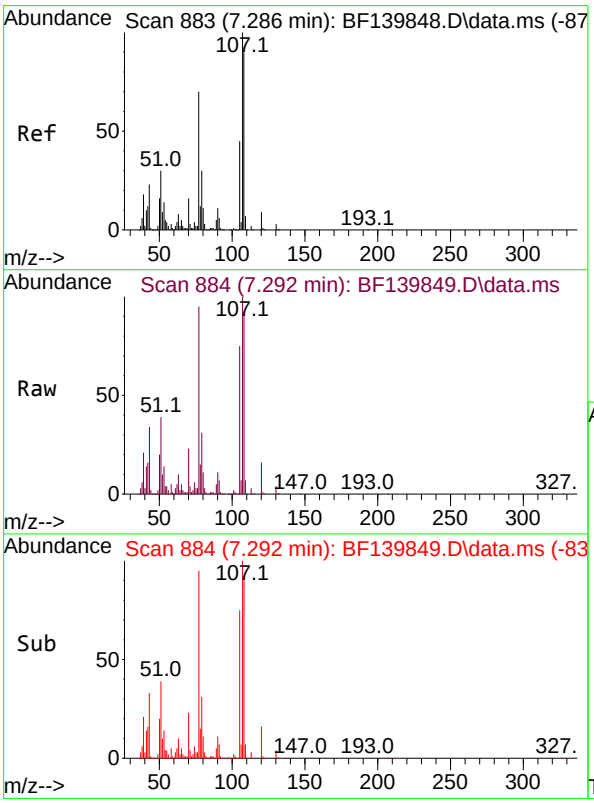
Ion	Ratio	Lower	Upper
70	100		
42	63.4	51.5	77.3
101	9.3	7.5	11.3
130	20.2	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

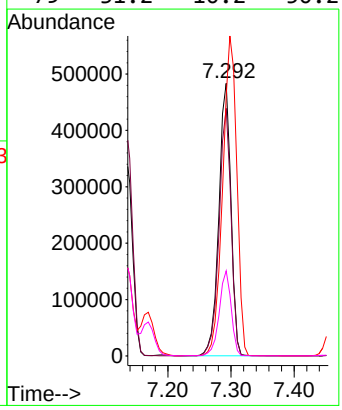
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

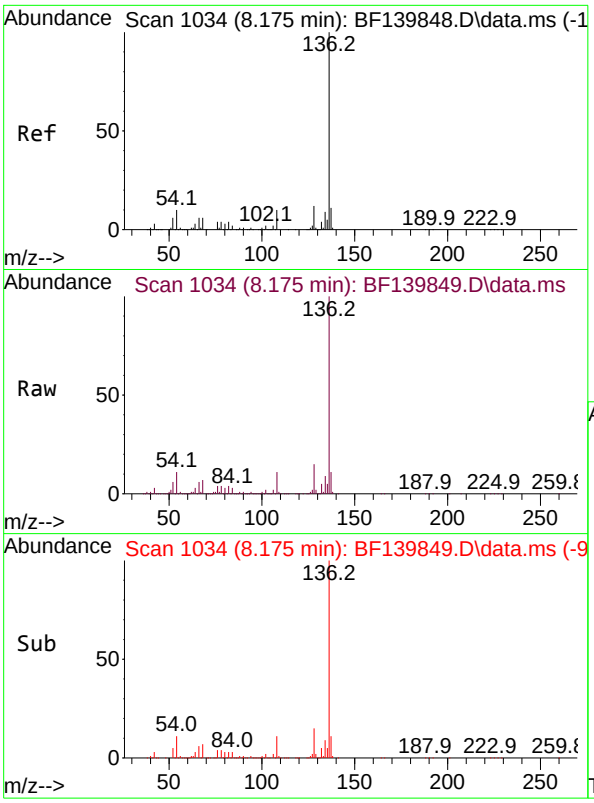


#20
3+4-Methylphenols
Concen: 45.961 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:107 Resp: 645650

Ion	Ratio	Lower	Upper
107	100		
108	90.8	69.8	109.8
77	95.4	50.5	90.5#
79	31.2	10.2	50.2

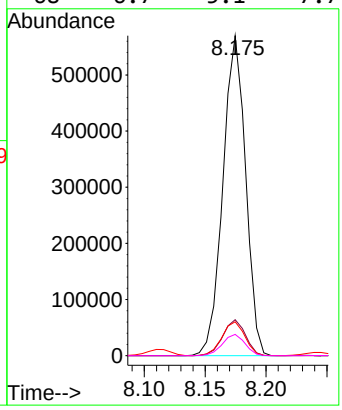




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:136 Resp: 73966

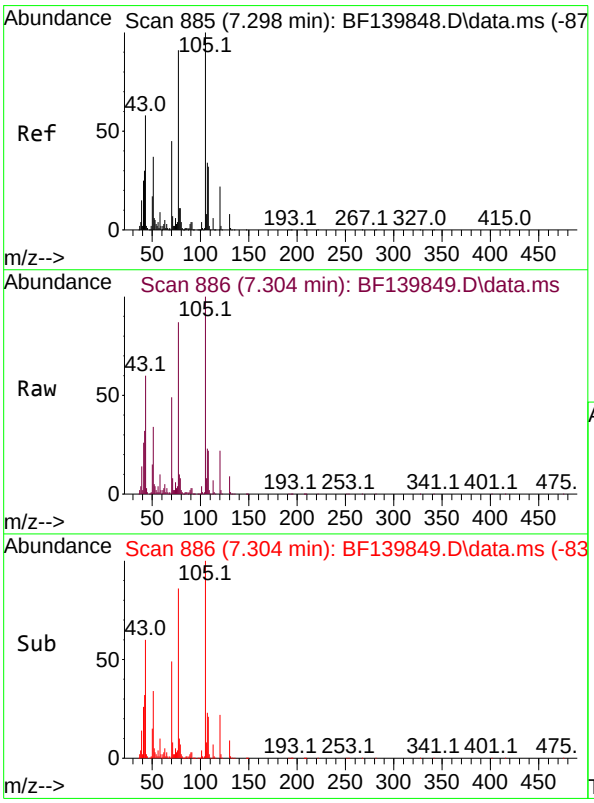
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.6	12.8
54	10.6	8.4	12.6
68	6.7	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

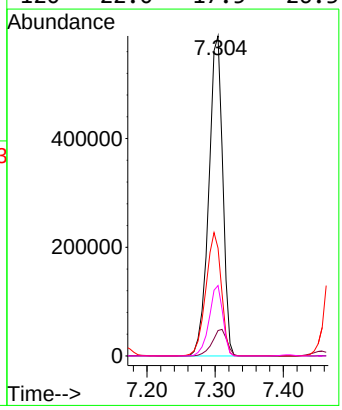
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

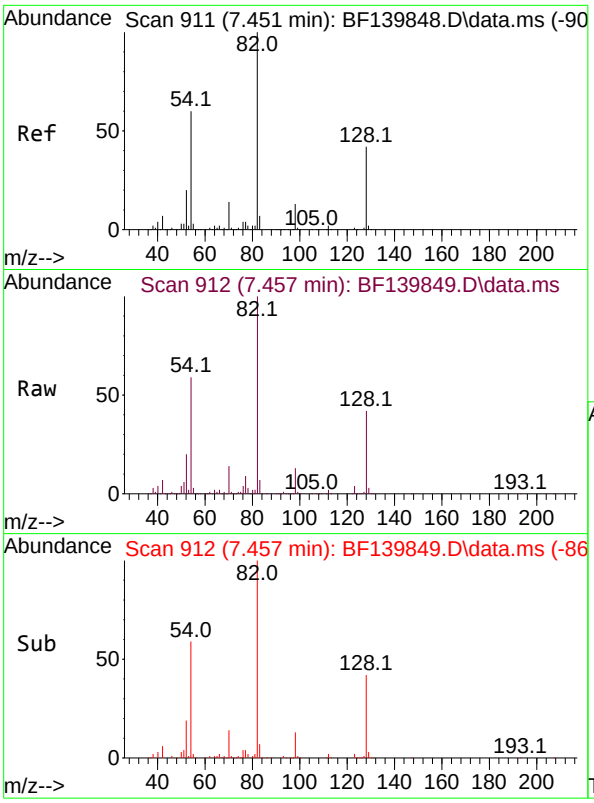


#22
Acetophenone
Concen: 46.140 ng
RT: 7.304 min Scan# 886
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:105 Resp: 835908

Ion	Ratio	Lower	Upper
105	100		
71	7.9	5.9	8.9
51	33.7	29.4	44.2
120	22.0	17.5	26.3





#23
Nitrobenzene-d5
Concen: 98.193 ng
RT: 7.457 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

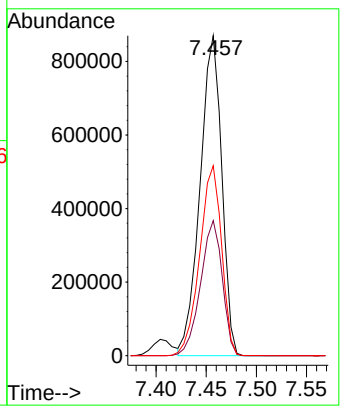
Tgt Ion: 82 Resp: 131045

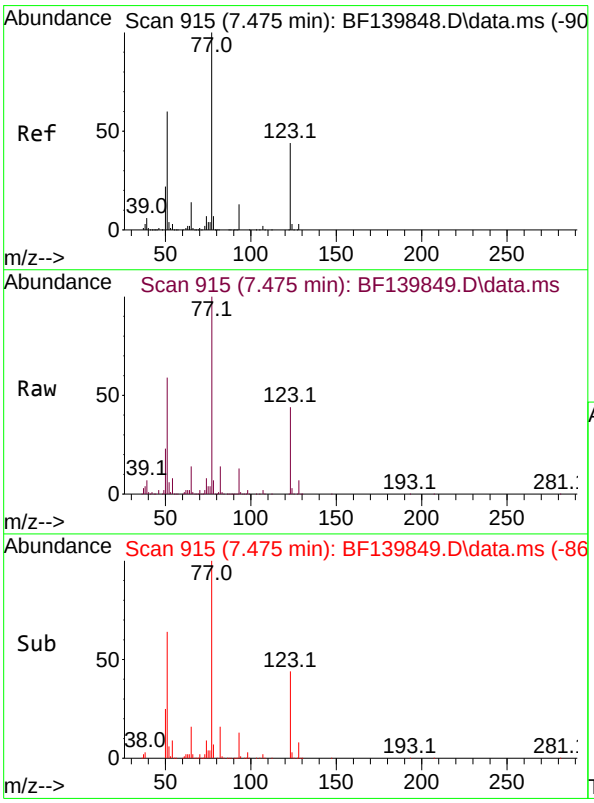
Ion	Ratio	Lower	Upper
82	100		
128	42.2	33.4	50.0
54	59.3	47.8	71.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

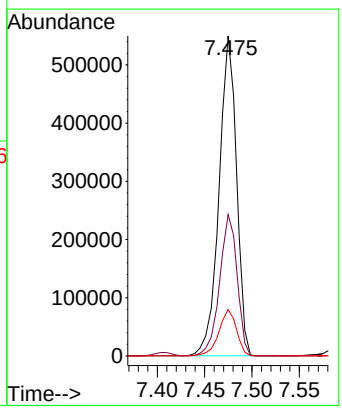


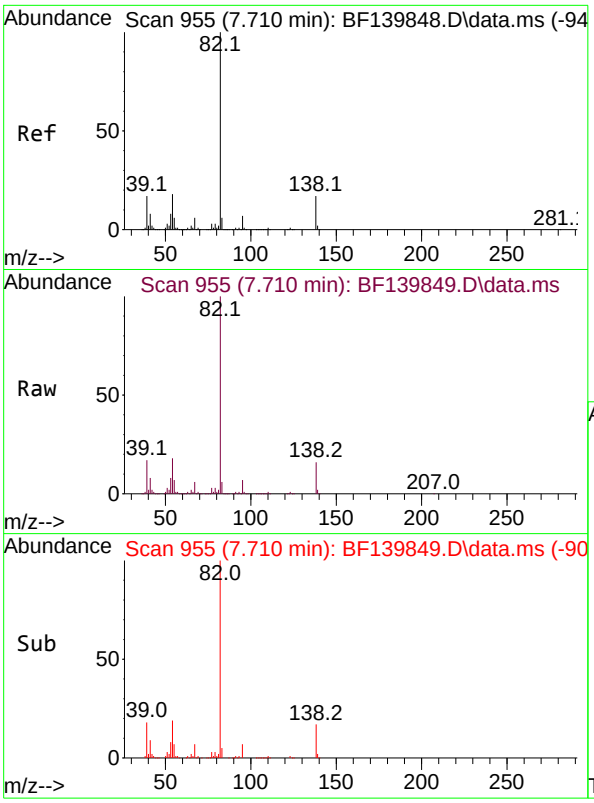


#24
Nitrobenzene
Concen: 48.385 ng
RT: 7.475 min Scan# 915
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 77 Resp: 707970

Ion	Ratio	Lower	Upper
77	100		
123	44.2	35.7	53.5
65	14.5	11.5	17.3





#25
Isophorone
Concen: 47.583 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

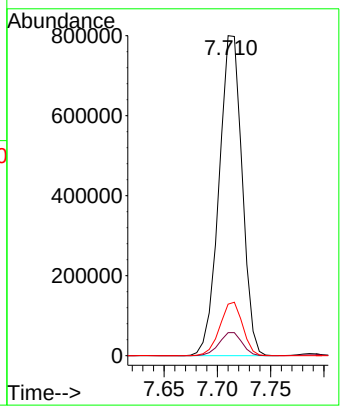
Tgt Ion: 82 Resp: 120527

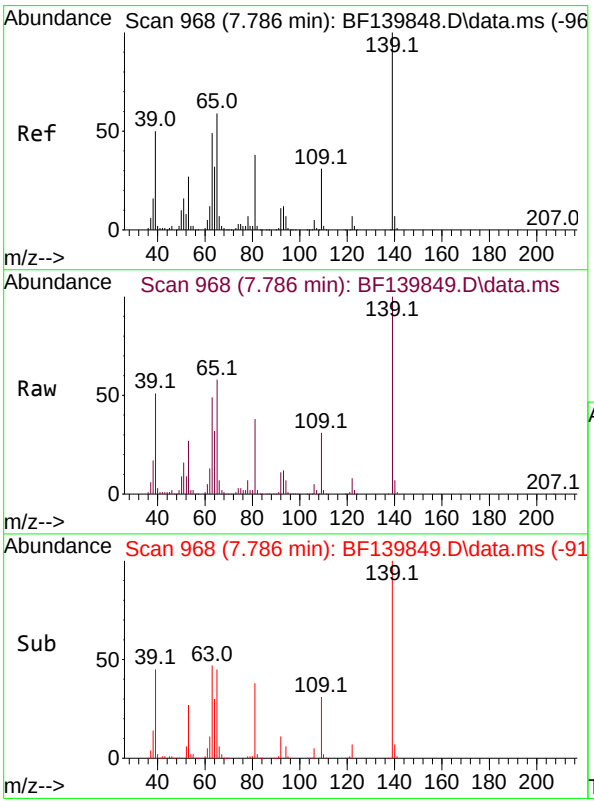
Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.5	8.3
138	16.1	13.2	19.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

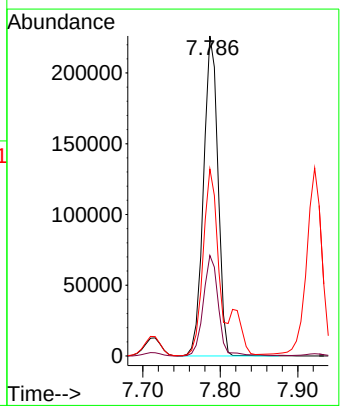


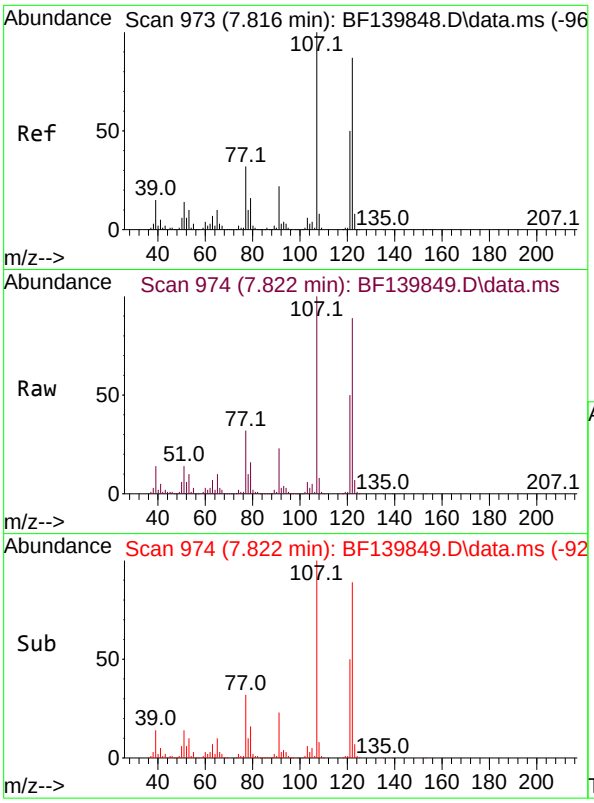


#26
2-Nitrophenol
Concen: 53.013 ng
RT: 7.786 min Scan# 968
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:139 Resp: 292634

Ion	Ratio	Lower	Upper
139	100		
109	31.4	25.1	37.7
65	58.4	47.5	71.3

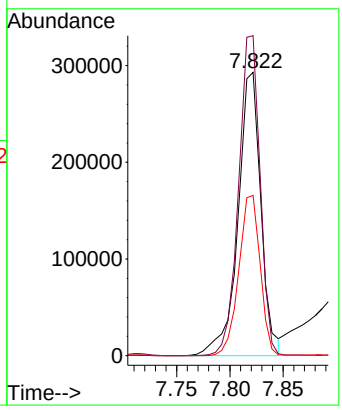




#27
2,4-Dimethylphenol
Concen: 47.699 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:122 Resp: 43904

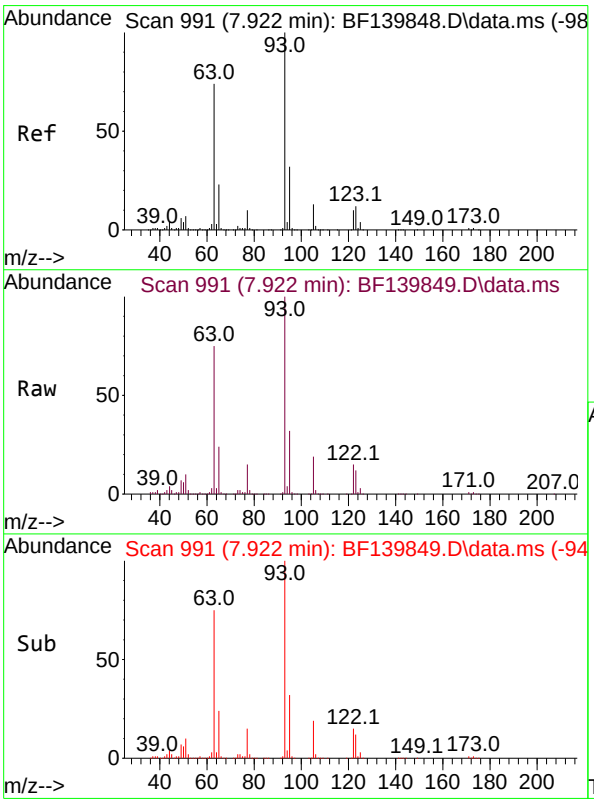
Ion	Ratio	Lower	Upper
122	100		
107	113.0	91.9	137.9
121	56.6	46.2	69.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

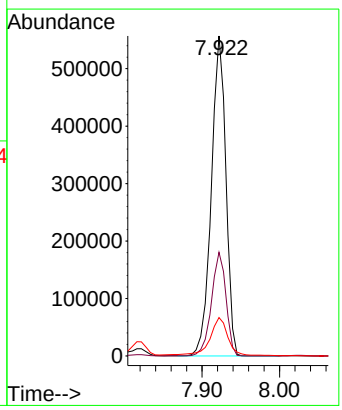
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

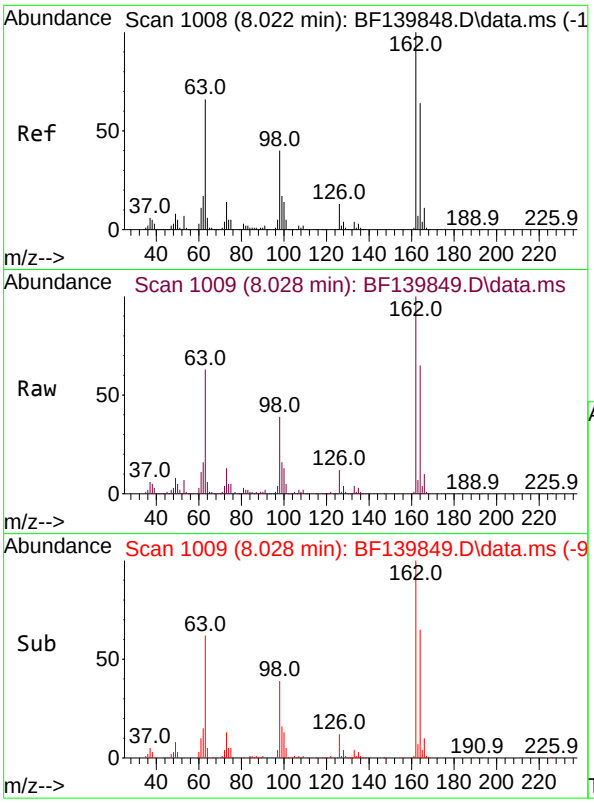


#28
bis(2-Chloroethoxy)methane
Concen: 47.500 ng
RT: 7.922 min Scan# 991
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 93 Resp: 728968

Ion	Ratio	Lower	Upper
93	100		
95	32.4	26.0	39.0
123	12.0	9.8	14.8

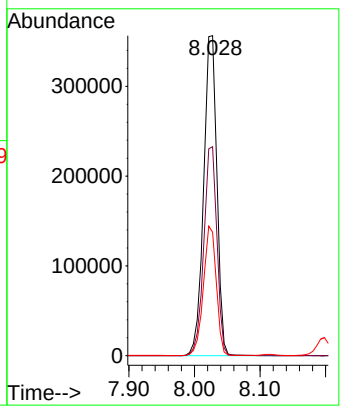




#29
2,4-Dichlorophenol
Concen: 47.971 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:162 Resp: 50293

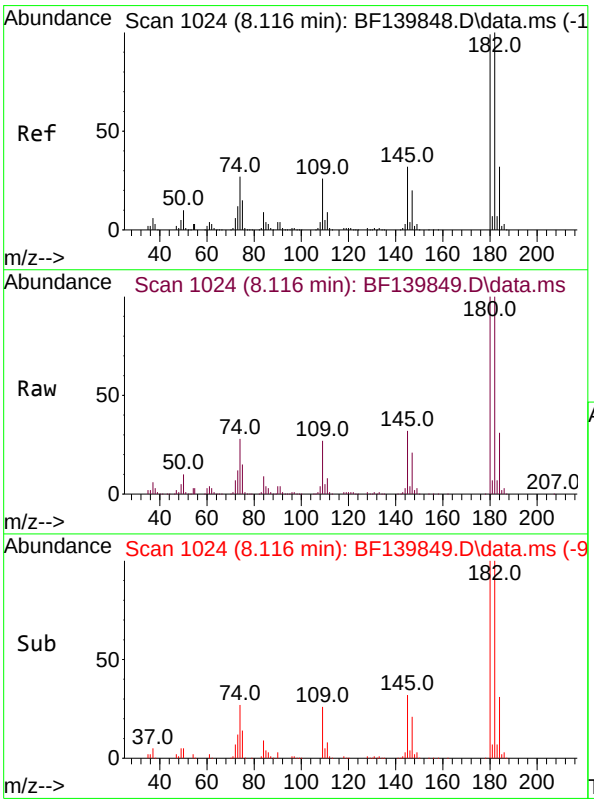
Ion	Ratio	Lower	Upper
162	100		
164	65.3	43.9	83.9
98	38.6	19.9	59.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

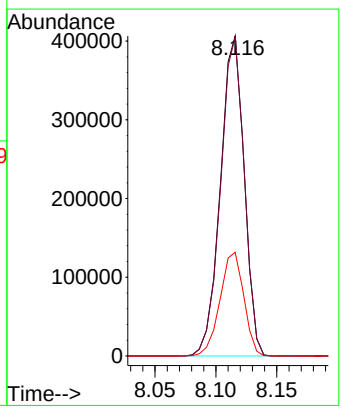
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

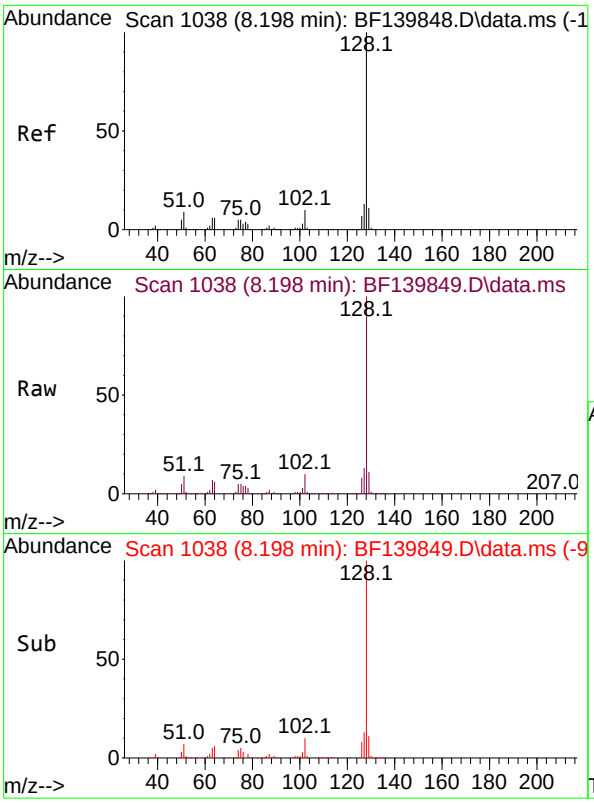


#30
1,2,4-Trichlorobenzene
Concen: 47.476 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:180 Resp: 550757

Ion	Ratio	Lower	Upper
180	100		
182	99.7	80.5	120.7
145	32.4	25.4	38.0

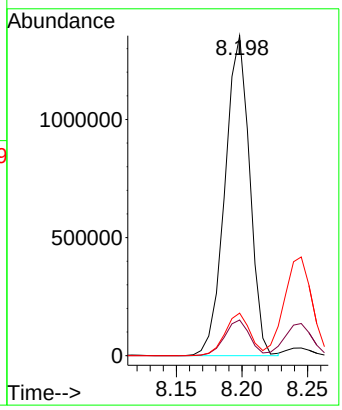




#31
Naphthalene
Concen: 46.415 ng
RT: 8.198 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:128 Resp: 177061(

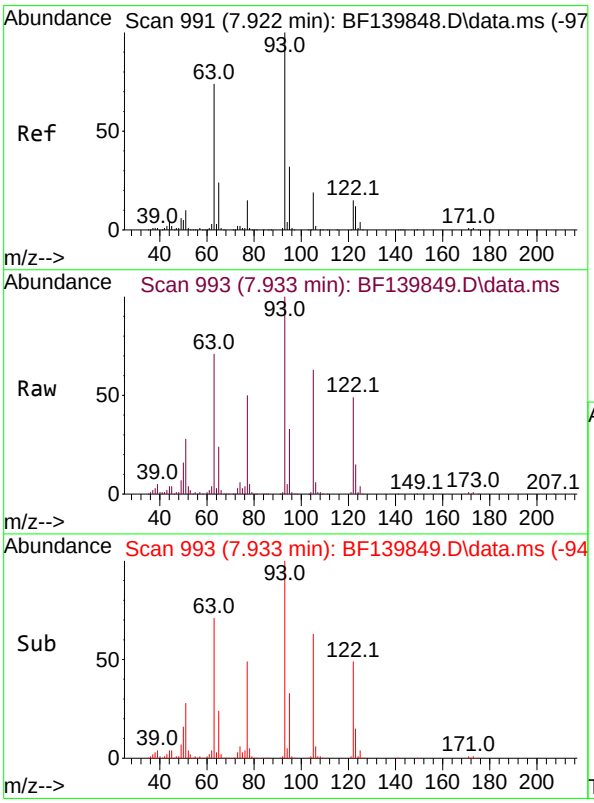
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.3	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

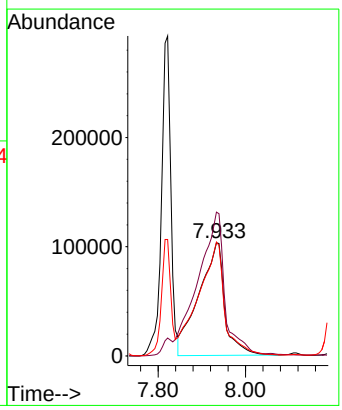
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

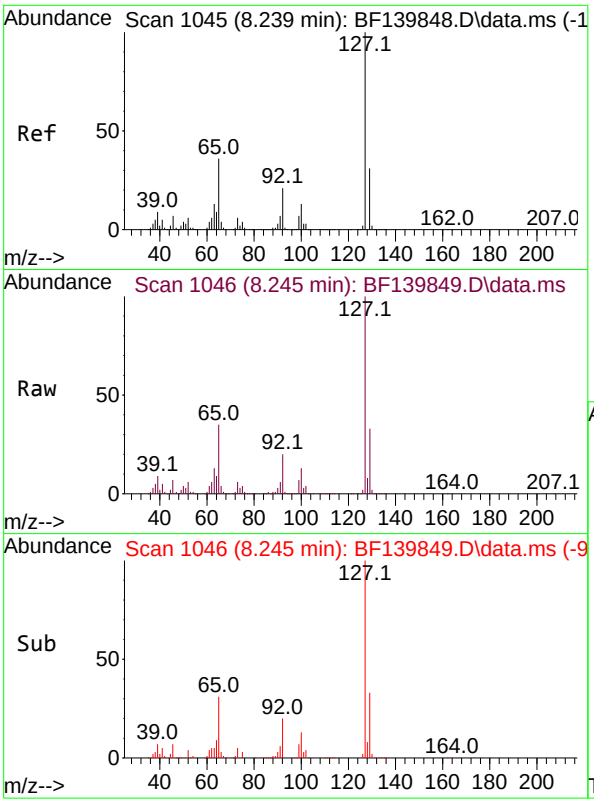


#32
Benzoic acid
Concen: 53.131 ng
RT: 7.933 min Scan# 993
Delta R.T. 0.011 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:122 Resp: 426532

Ion	Ratio	Lower	Upper
122	100		
105	127.2	107.6	147.6
77	100.6	80.2	120.2

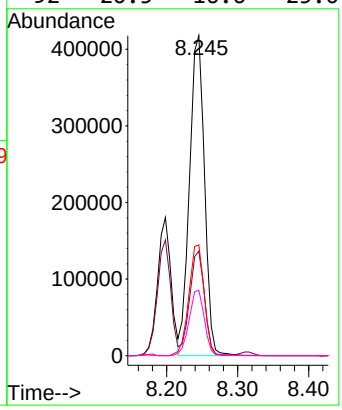




#33
4-Chloroaniline
Concen: 47.189 ng
RT: 8.245 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:127 Resp: 61382

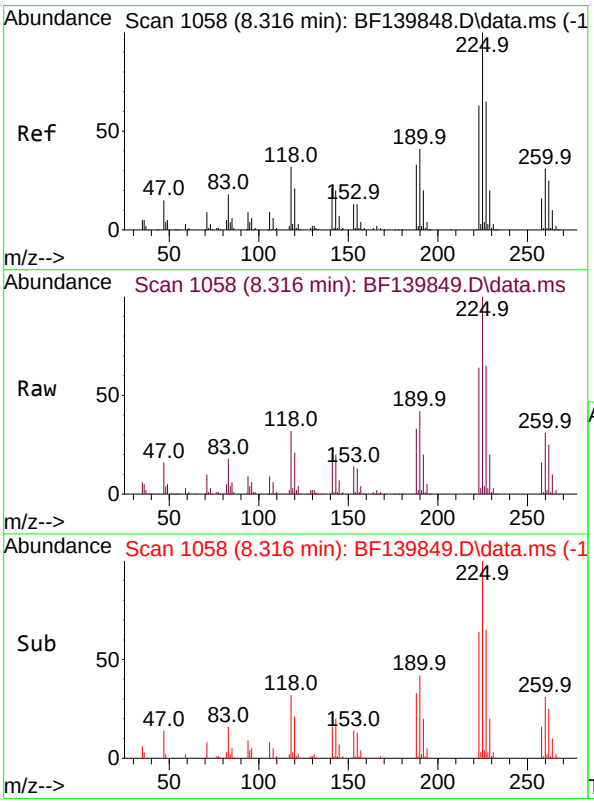
Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.4	38.2
65	34.6	28.4	42.6
92	20.5	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

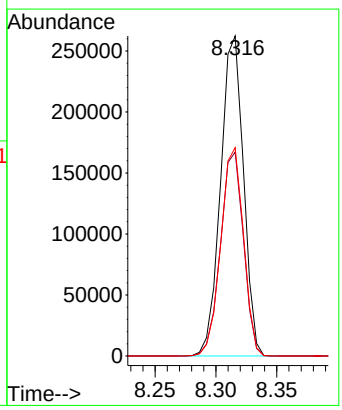
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

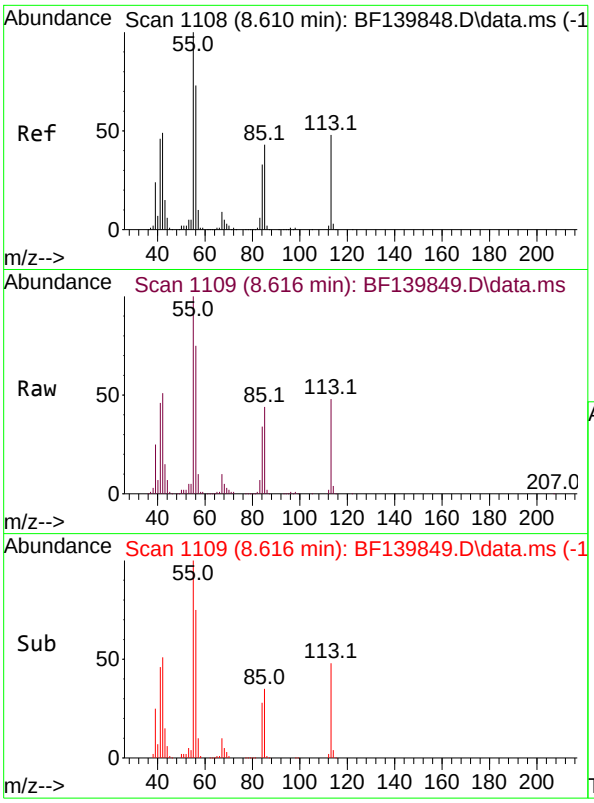


#34
Hexachlorobutadiene
Concen: 47.058 ng
RT: 8.316 min Scan# 1058
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:225 Resp: 343002

Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.6	76.0
227	65.1	51.8	77.8

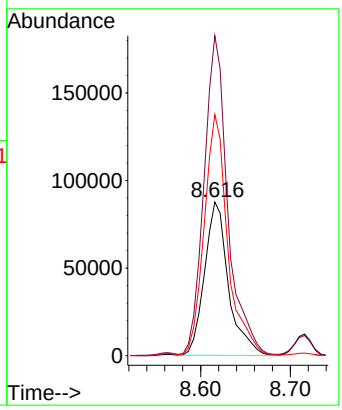




#35
Caprolactam
Concen: 48.675 ng
RT: 8.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:113 Resp: 16226

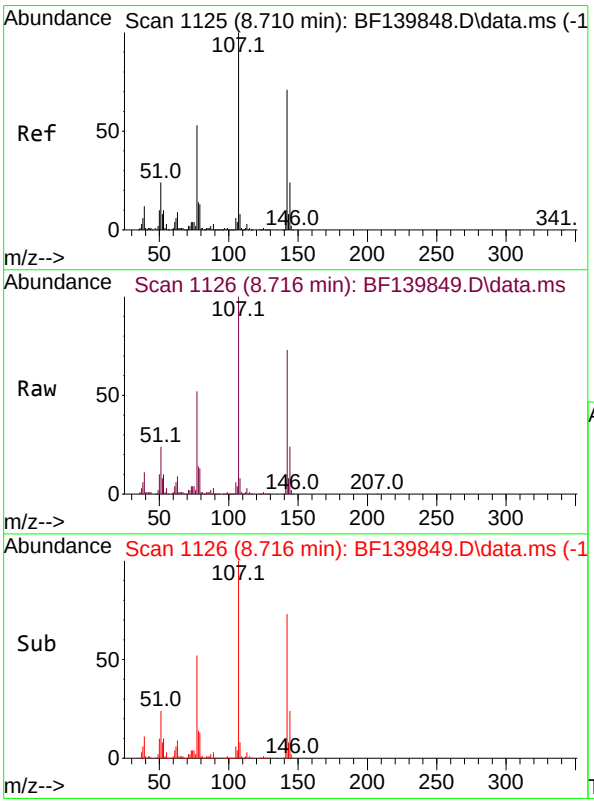
Ion	Ratio	Lower	Upper
113	100		
55	208.2	189.2	229.2
56	157.0	132.5	172.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

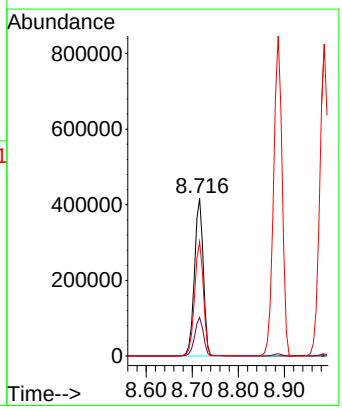
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

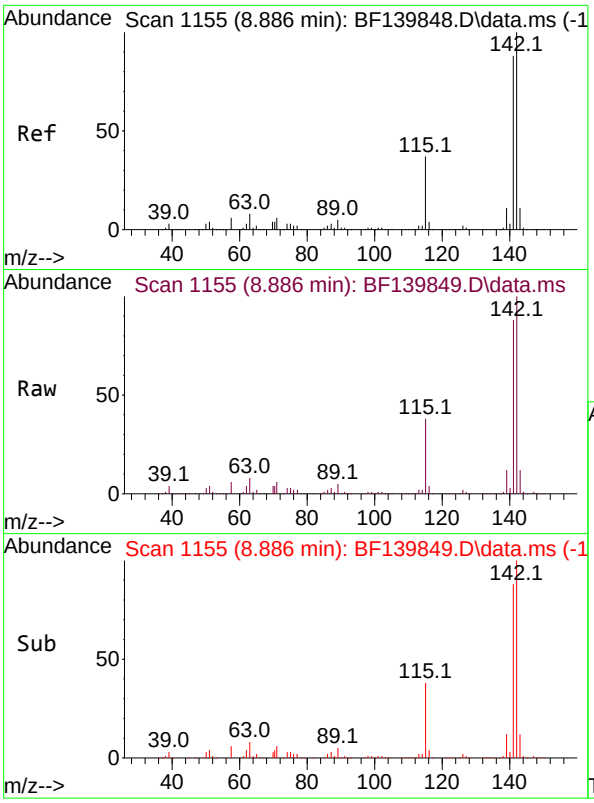


#36
4-Chloro-3-methylphenol
Concen: 47.678 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:107 Resp: 553487

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.1	28.7
142	72.6	57.2	85.8





#37
2-Methylnaphthalene
Concen: 46.462 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

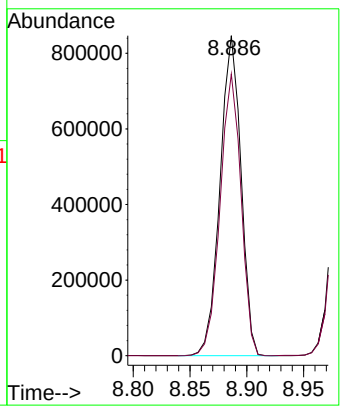
Tgt Ion:142 Resp: 108549

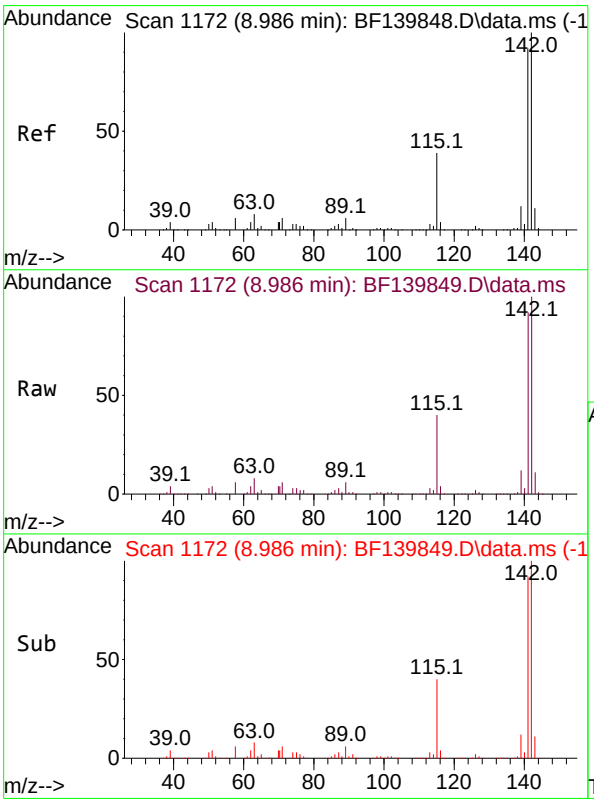
Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

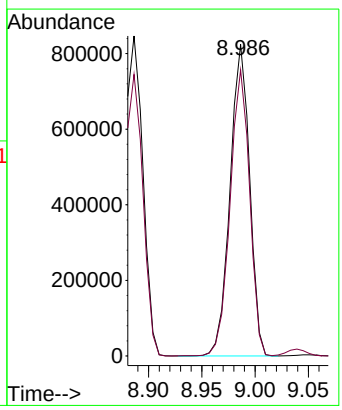


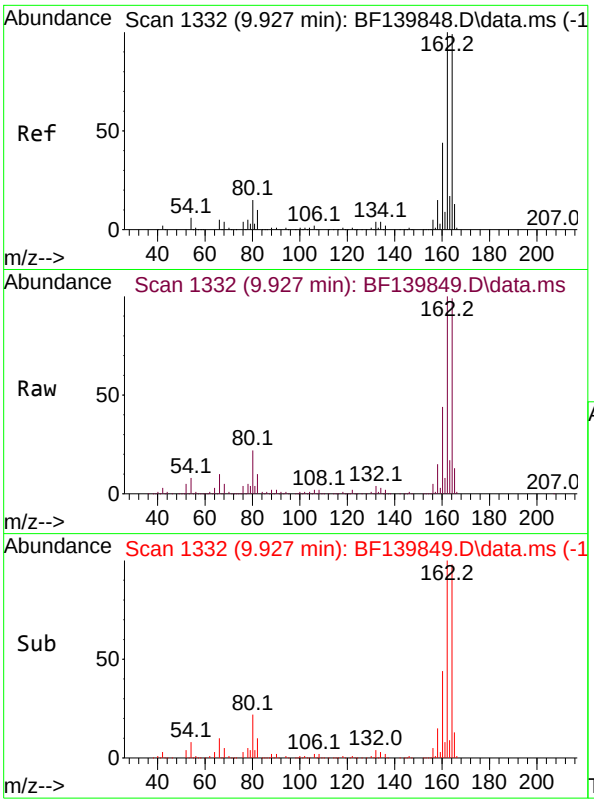


#38
1-Methylnaphthalene
Concen: 45.933 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:142 Resp: 1052879

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.5	110.3

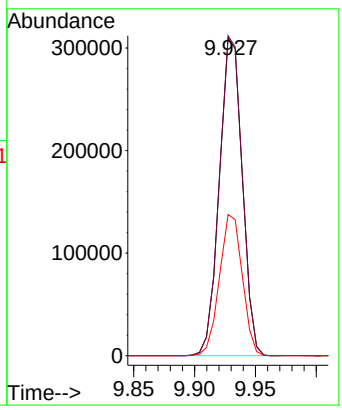




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:164 Resp: 40519

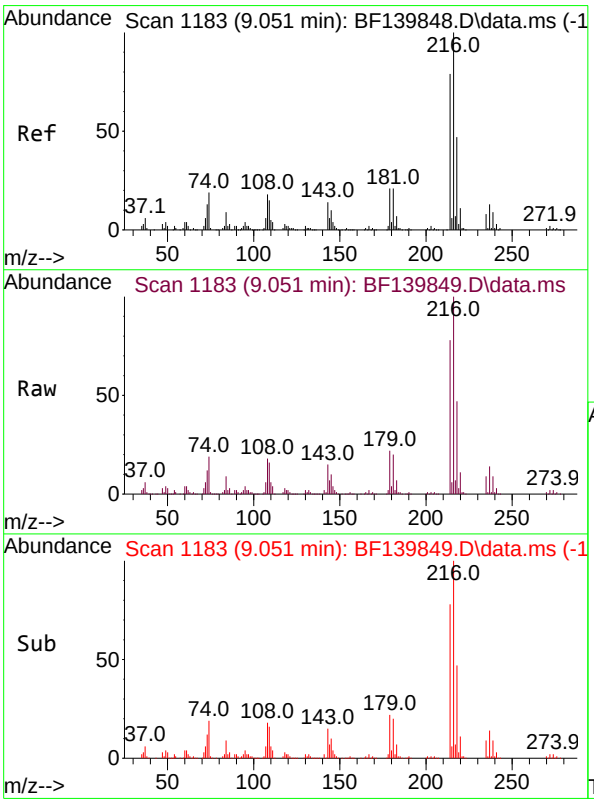
Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.0	121.4
160	44.4	35.4	53.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

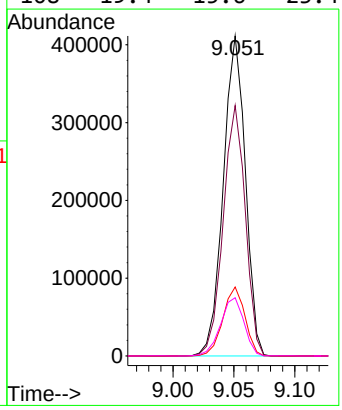
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

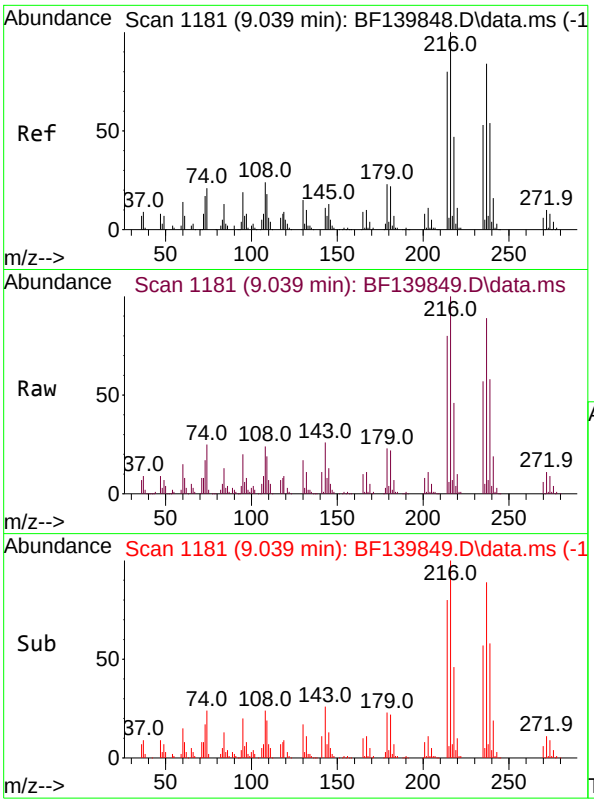


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.474 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:216 Resp: 518960

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.4	95.0
179	21.5	17.2	25.8
108	19.4	15.6	23.4





#41
Hexachlorocyclopentadiene
Concen: 49.488 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

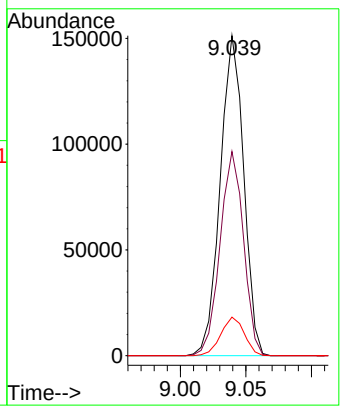
Tgt Ion:237 Resp: 18823

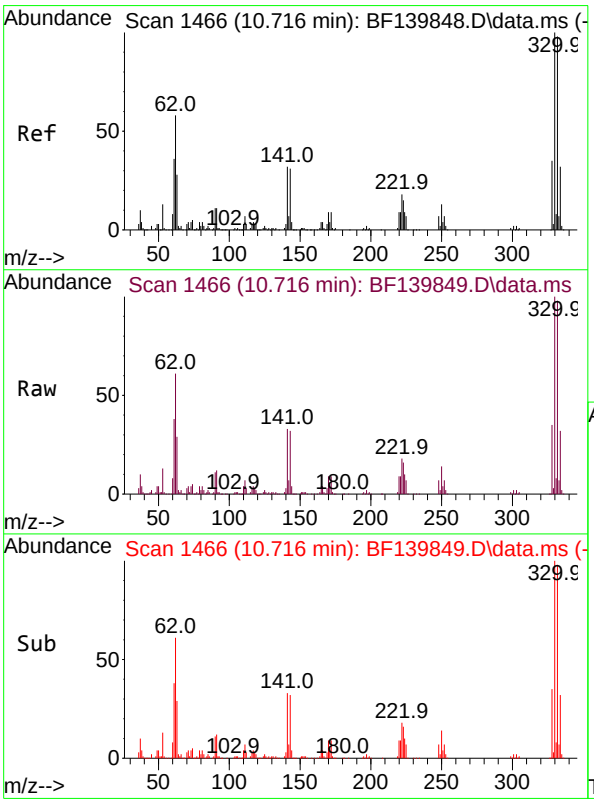
Ion	Ratio	Lower	Upper
237	100		
235	63.8	42.9	82.9
272	12.0	0.0	32.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

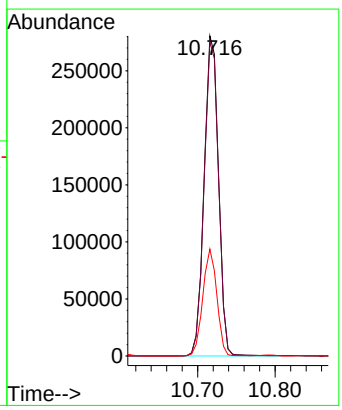


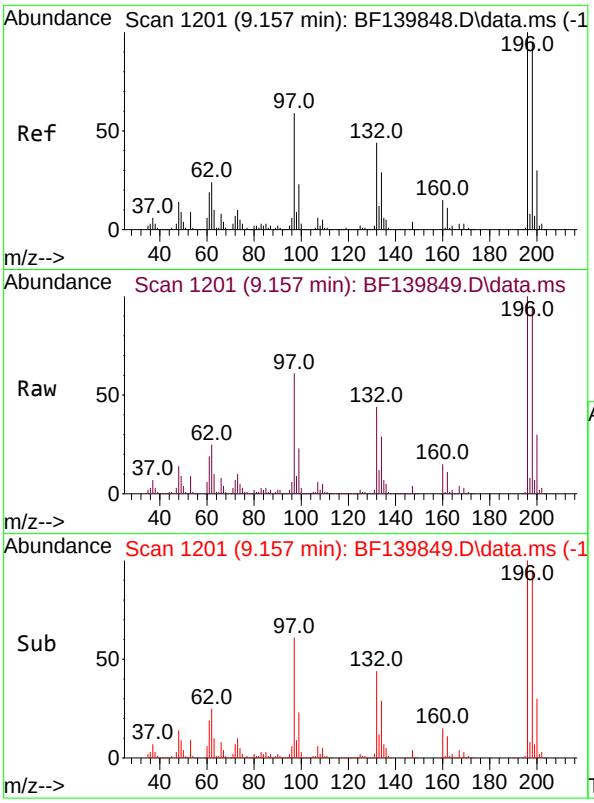


#42
2,4,6-Tribromophenol
Concen: 95.600 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:330 Resp: 362330

Ion	Ratio	Lower	Upper
330	100		
332	98.1	78.1	117.1
141	32.6	26.6	39.8

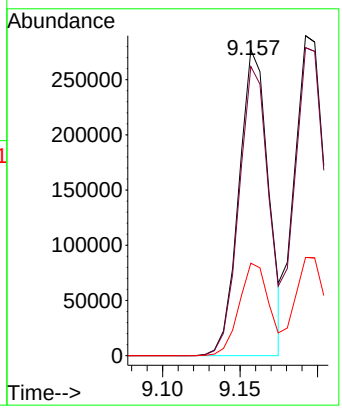




#43
2,4,6-Trichlorophenol
Concen: 47.468 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:196 Resp: 36737

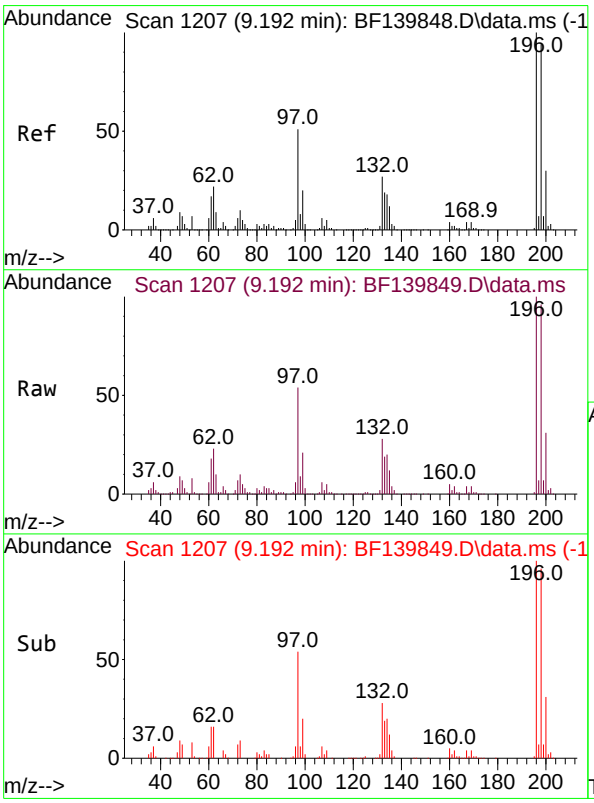
Ion	Ratio	Lower	Upper
196	100		
198	94.5	76.2	114.2
200	30.2	24.0	36.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

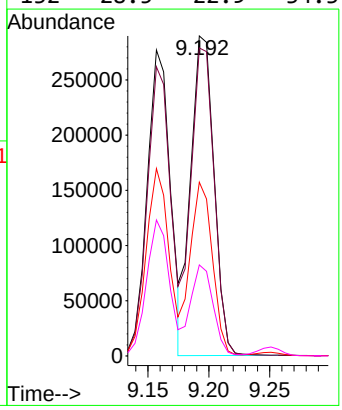
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

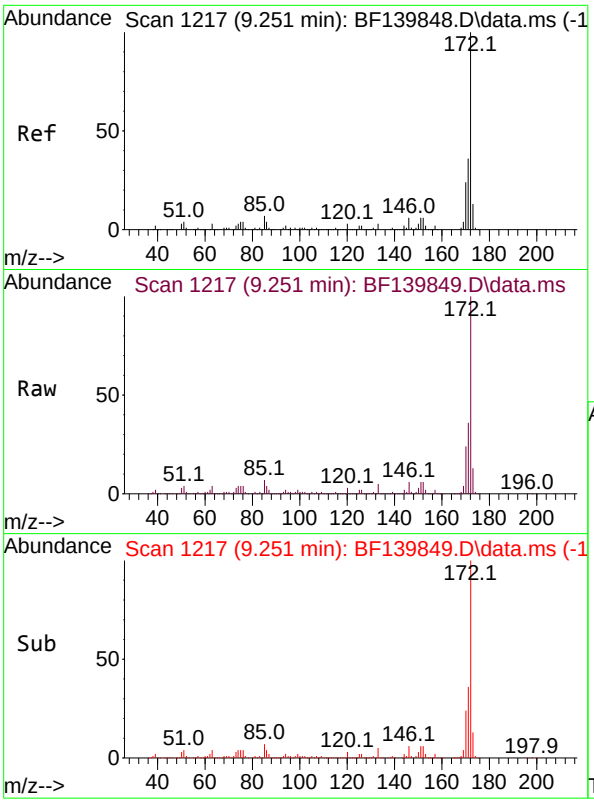


#44
2,4,5-Trichlorophenol
Concen: 48.336 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:196 Resp: 385963

Ion	Ratio	Lower	Upper
196	100		
198	96.2	75.8	113.6
97	54.3	41.8	62.6
132	28.5	22.9	34.3

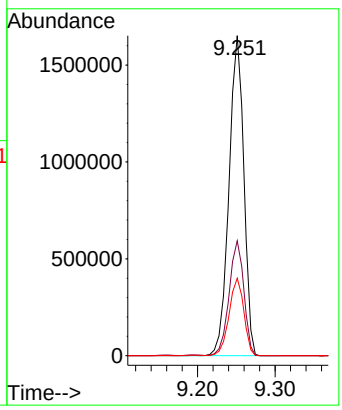




#45
2-Fluorobiphenyl
Concen: 89.915 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:172 Resp: 220446

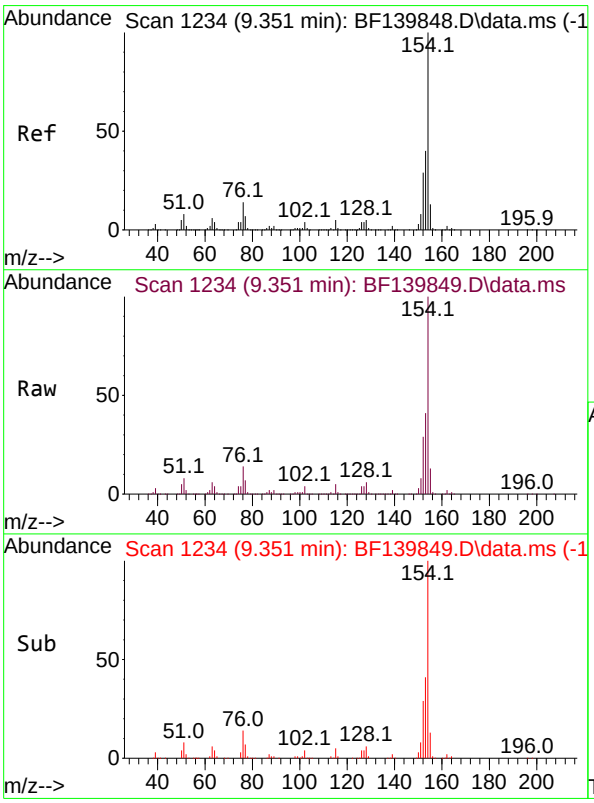
Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.2	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

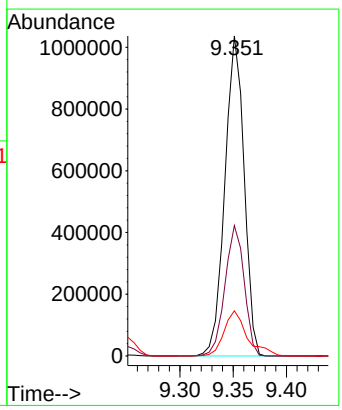
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

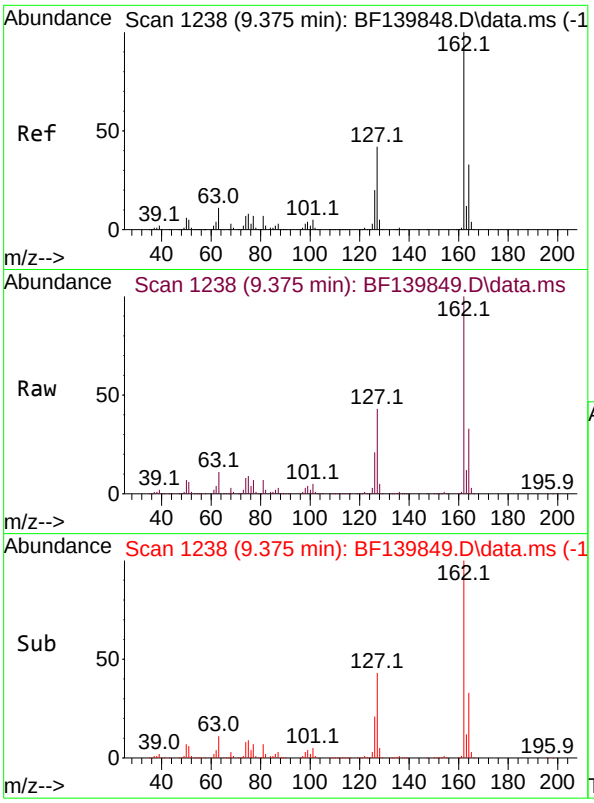


#46
1,1'-Biphenyl
Concen: 46.143 ng
RT: 9.351 min Scan# 1234
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:154 Resp: 1301562

Ion	Ratio	Lower	Upper
154	100		
153	40.7	20.3	60.3
76	14.1	0.0	33.9

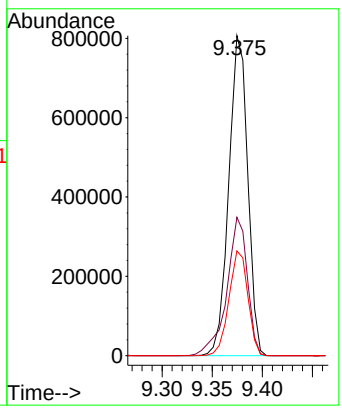




#47
2-Chloronaphthalene
Concen: 46.720 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:162 Resp: 106141

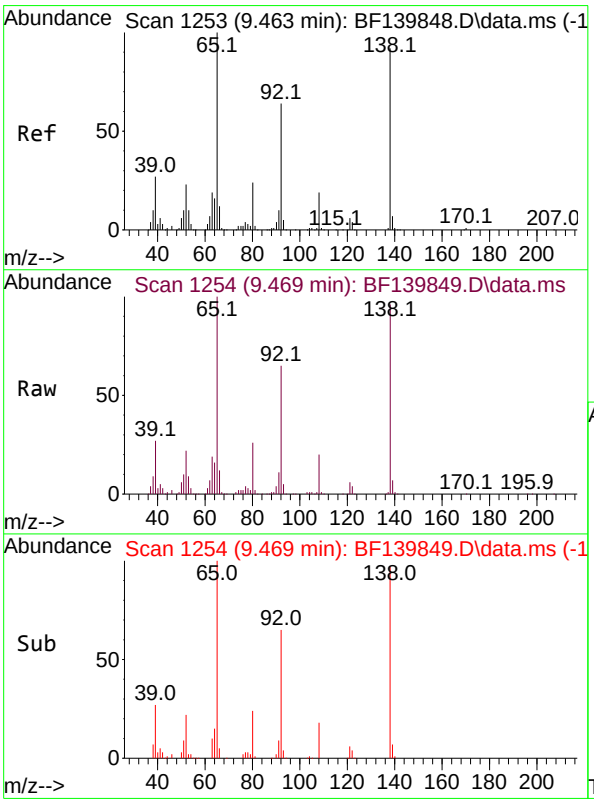
Ion	Ratio	Lower	Upper
162	100		
127	43.3	33.8	50.6
164	32.7	26.6	39.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

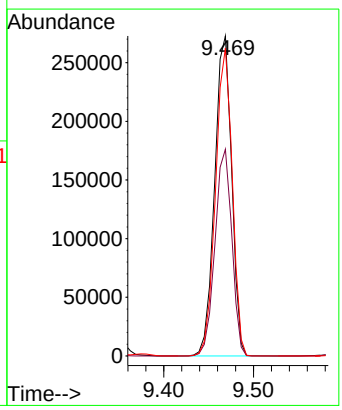
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

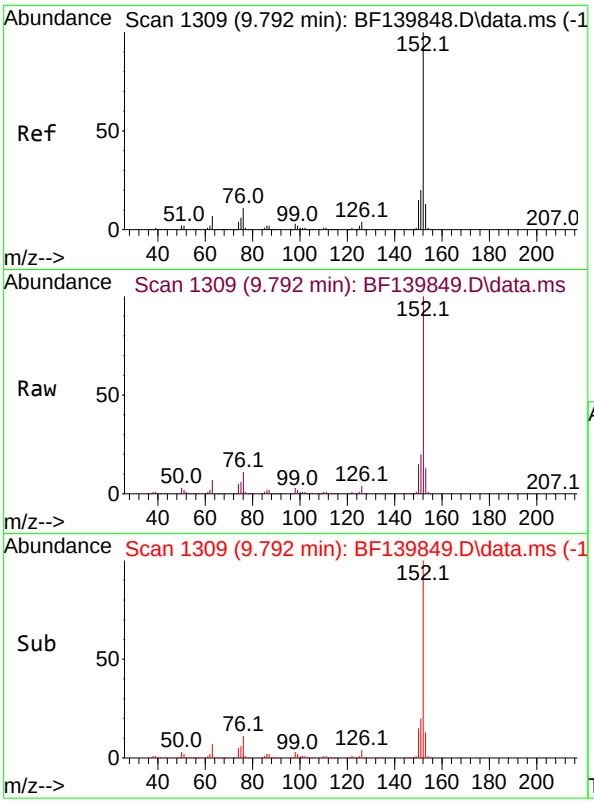


#48
2-Nitroaniline
Concen: 51.564 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 65 Resp: 358283

Ion	Ratio	Lower	Upper
65	100		
92	64.6	50.9	76.3
138	96.2	73.4	110.0

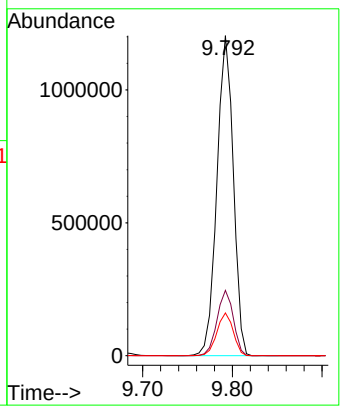




#49
Acenaphthylene
Concen: 46.479 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:152 Resp: 152658

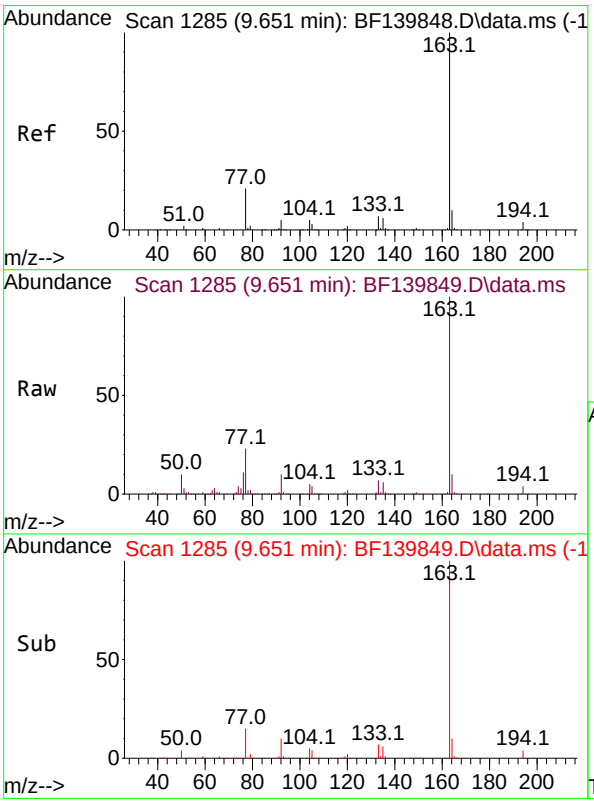
Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.9	23.9
153	13.4	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

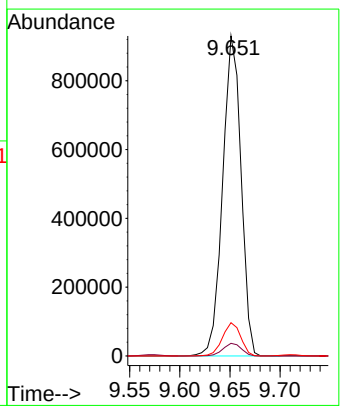
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

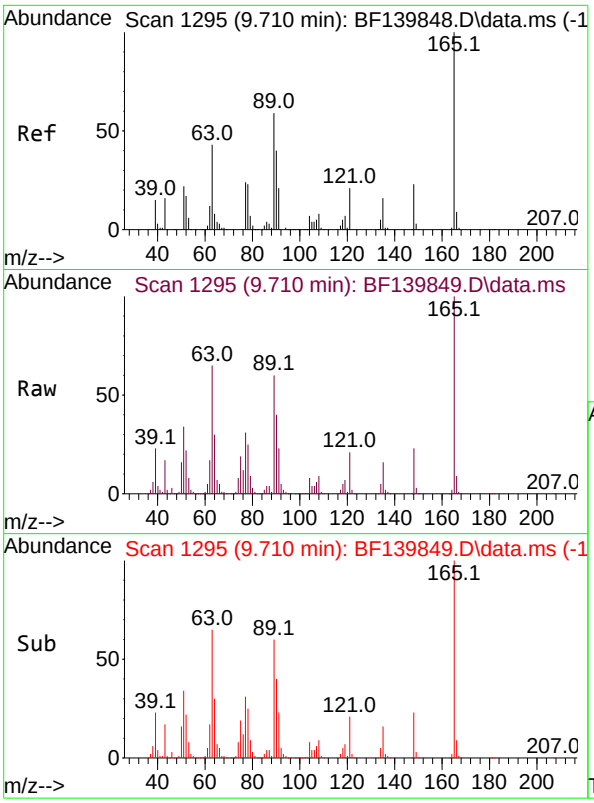


#50
Dimethylphthalate
Concen: 47.050 ng
RT: 9.651 min Scan# 1285
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:163 Resp: 1187472

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.4	5.0
164	10.4	8.2	12.2

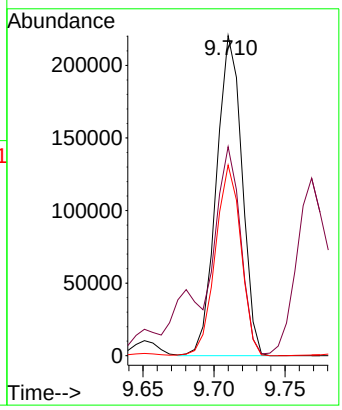




#51
2,6-Dinitrotoluene
Concen: 50.693 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:165 Resp: 27702

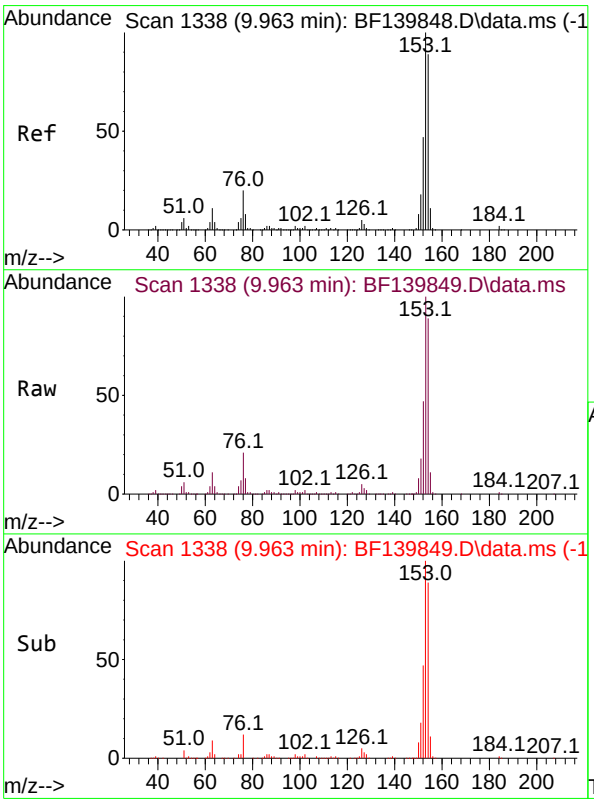
Ion	Ratio	Lower	Upper
165	100		
63	65.3	50.6	75.8
89	59.5	47.5	71.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

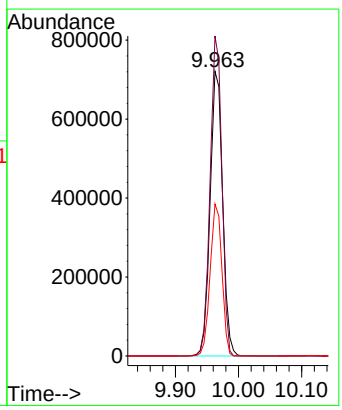
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

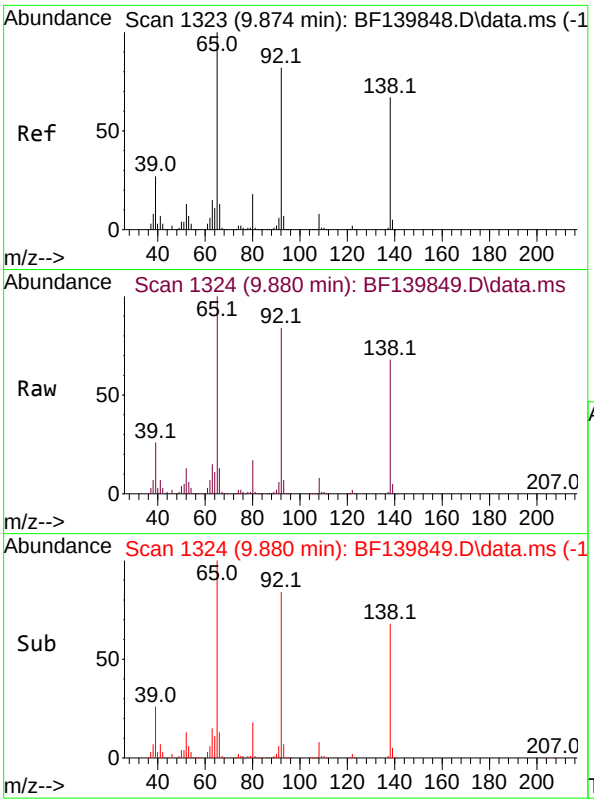


#52
Acenaphthene
Concen: 46.576 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:154 Resp: 989603

Ion	Ratio	Lower	Upper
154	100		
153	112.4	89.8	134.6
152	53.4	42.4	63.6





#53
3-Nitroaniline
Concen: 49.591 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

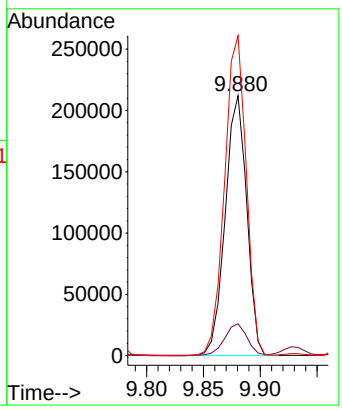
Tgt Ion:138 Resp: 27946

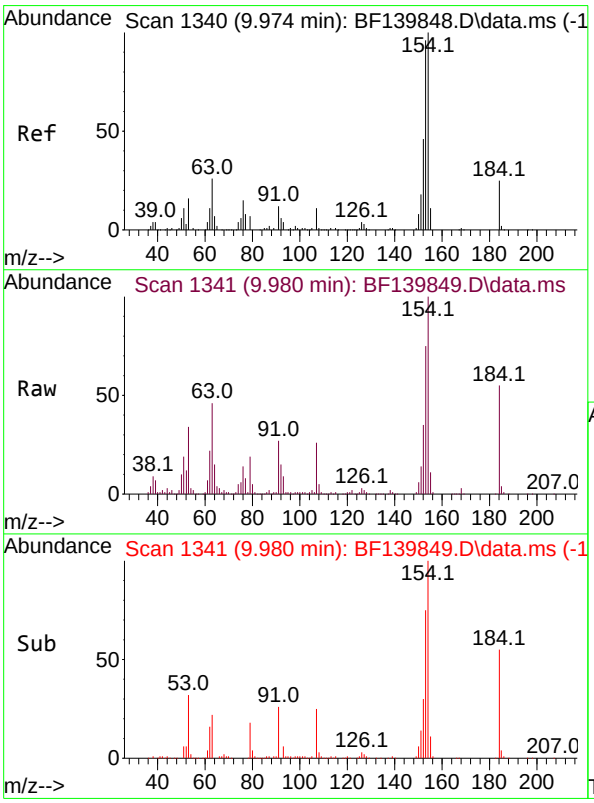
Ion	Ratio	Lower	Upper
138	100		
108	12.2	10.2	15.2
92	123.1	98.3	147.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

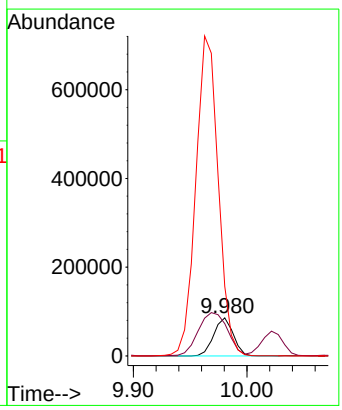


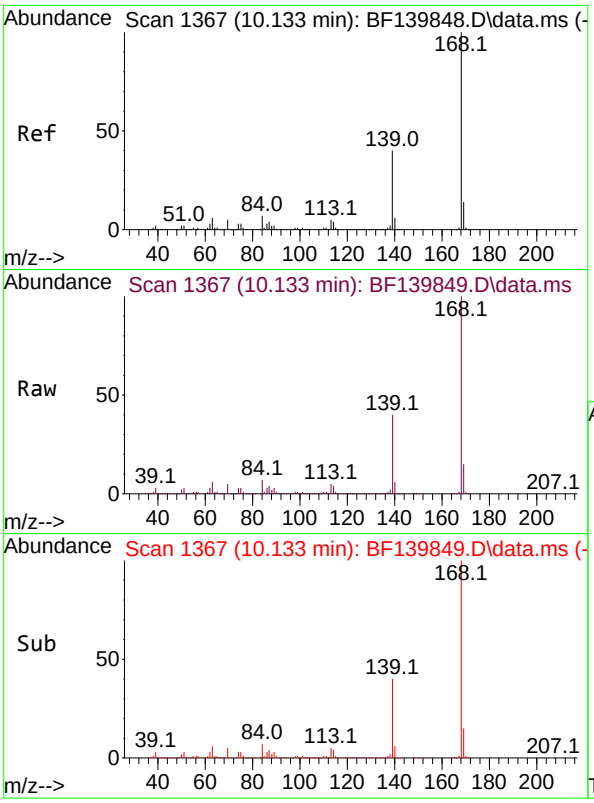


#54
2,4-Dinitrophenol
Concen: 48.105 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:184 Resp: 102786

Ion	Ratio	Lower	Upper
184	100		
63	84.8	84.7	127.1
154	182.9	338.2	507.2#

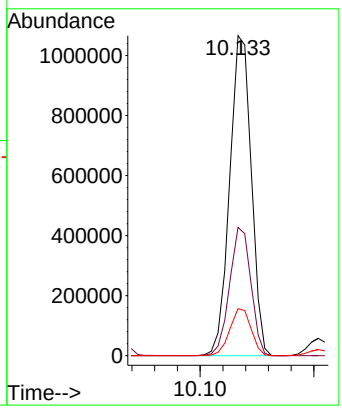




#55
Dibenzofuran
Concen: 46.162 ng
RT: 10.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:168 Resp: 140721

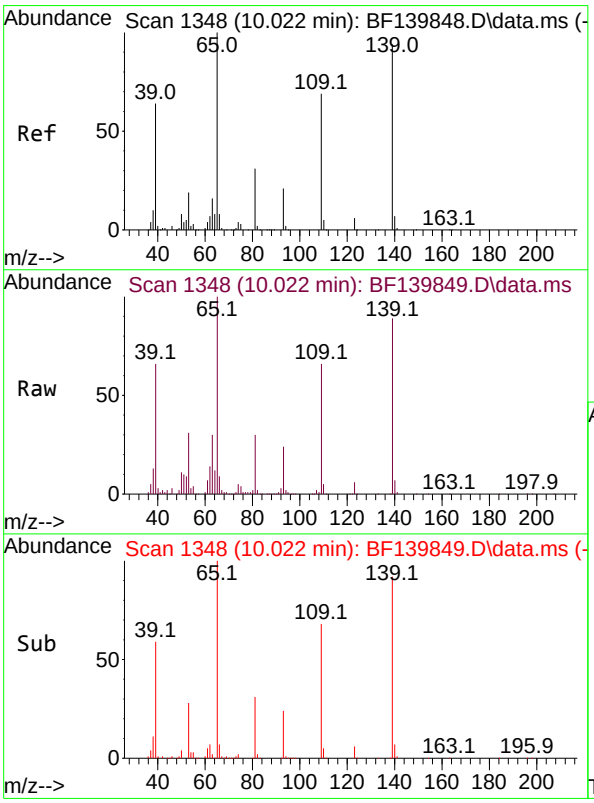
Ion	Ratio	Lower	Upper
168	100		
139	40.1	31.8	47.6
169	14.7	11.6	17.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

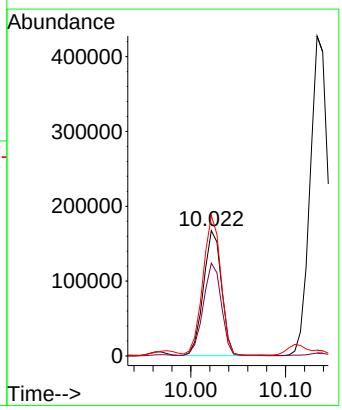
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

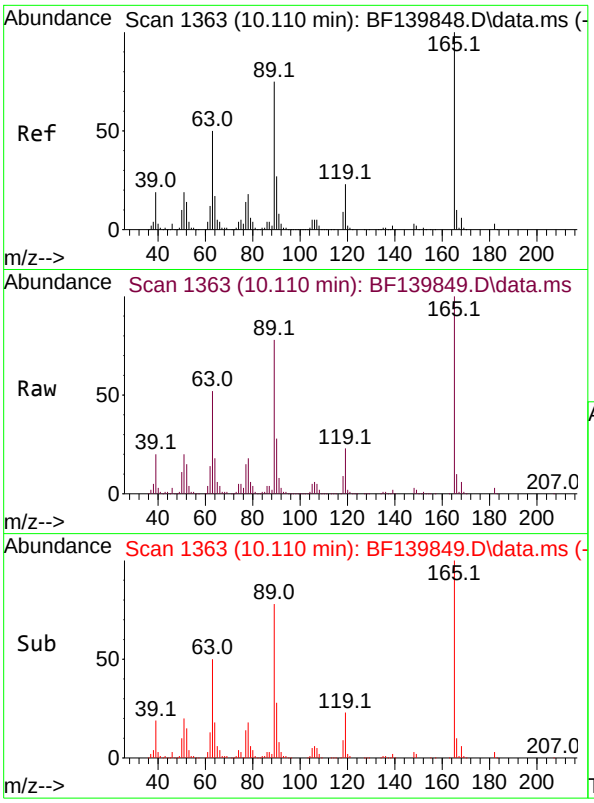


#56
4-Nitrophenol
Concen: 51.068 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:139 Resp: 221410

Ion	Ratio	Lower	Upper
139	100		
109	74.0	53.6	93.6
65	112.1	87.8	127.8

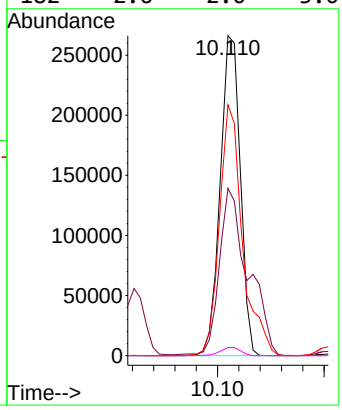




#57
2,4-Dinitrotoluene
Concen: 51.878 ng
RT: 10.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:165 Resp: 34862

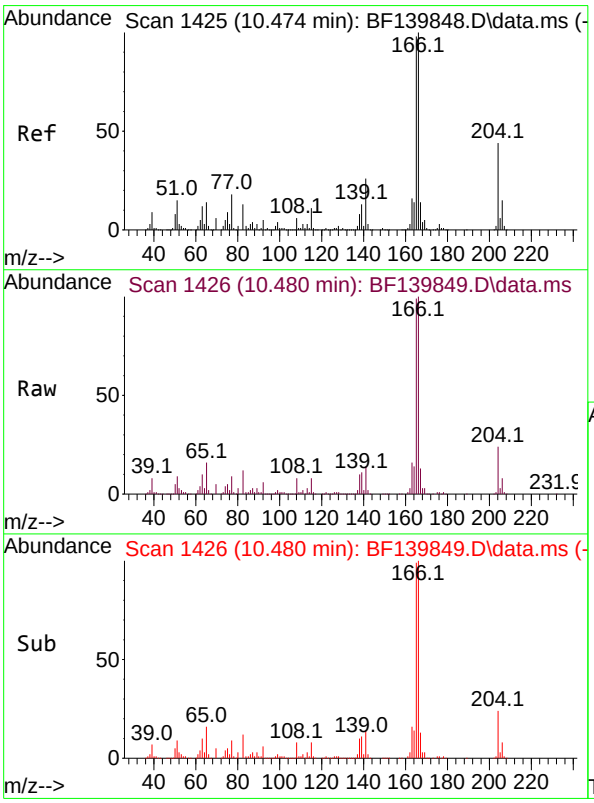
Ion	Ratio	Lower	Upper
165	100		
63	52.2	40.1	60.1
89	78.4	60.4	90.6
182	2.6	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

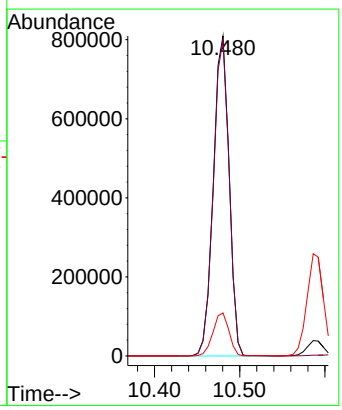
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

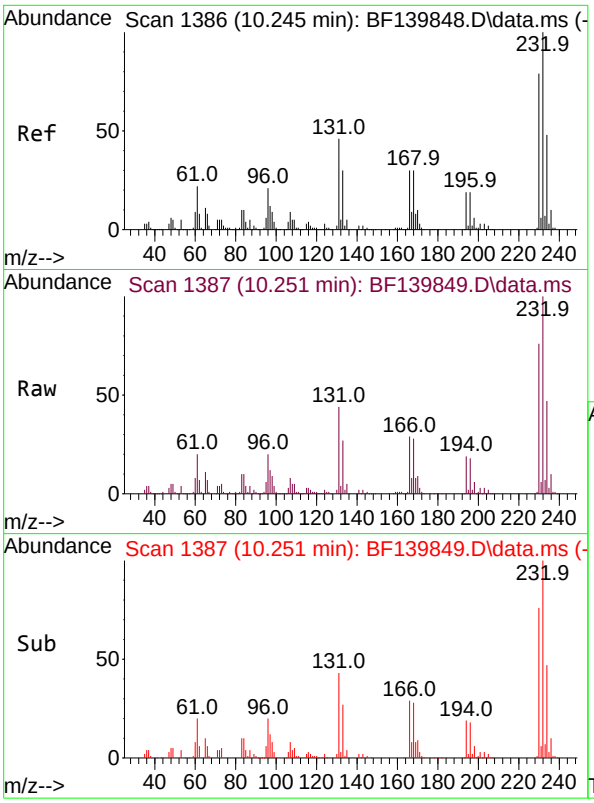


#58
Fluorene
Concen: 44.889 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:166 Resp: 1042268

Ion	Ratio	Lower	Upper
166	100		
165	98.6	78.5	117.7
167	13.5	10.9	16.3

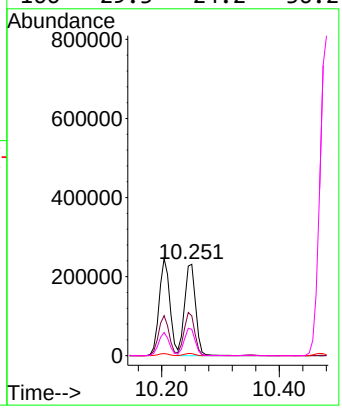




#59
2,3,4,6-Tetrachlorophenol
Concen: 47.975 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:232 Resp: 30030

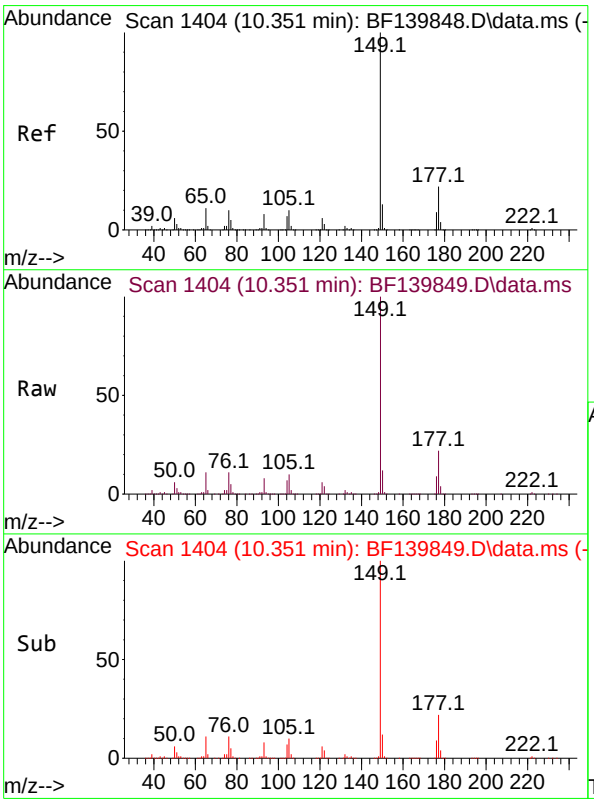
Ion	Ratio	Lower	Upper
232	100		
131	45.6	37.0	55.6
130	2.4	1.9	2.9
166	29.3	24.2	36.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

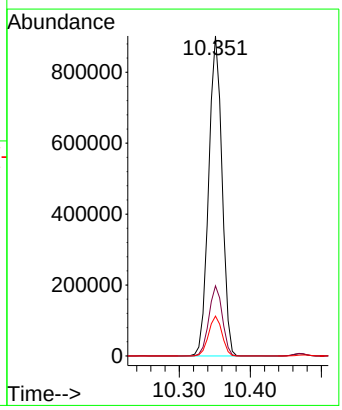
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

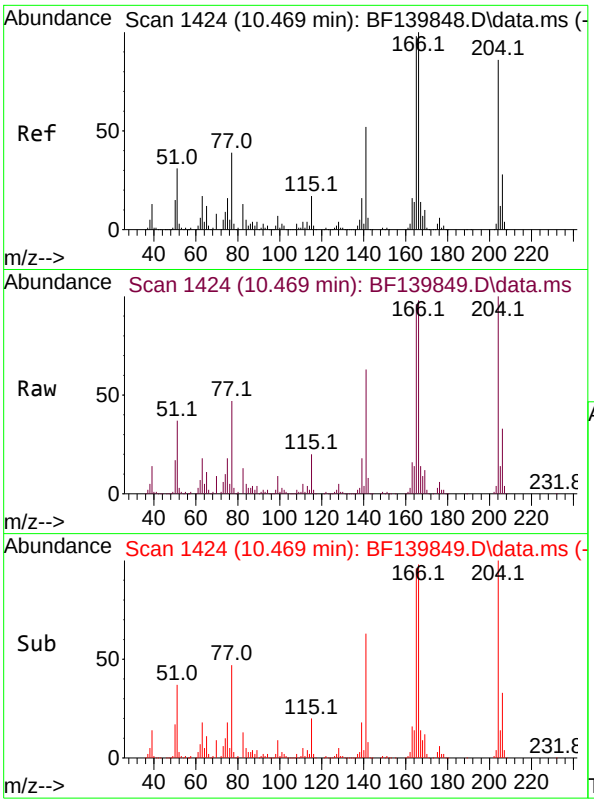


#60
Diethylphthalate
Concen: 47.634 ng
RT: 10.351 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:149 Resp: 1180411

Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.9	26.9
150	12.5	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 45.427 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

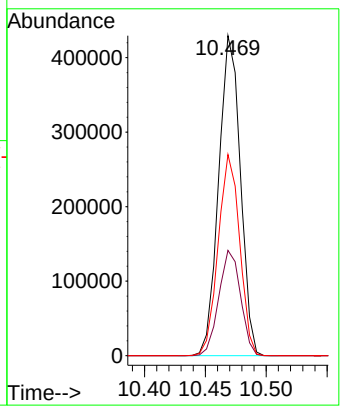
Tgt Ion:204 Resp: 53265

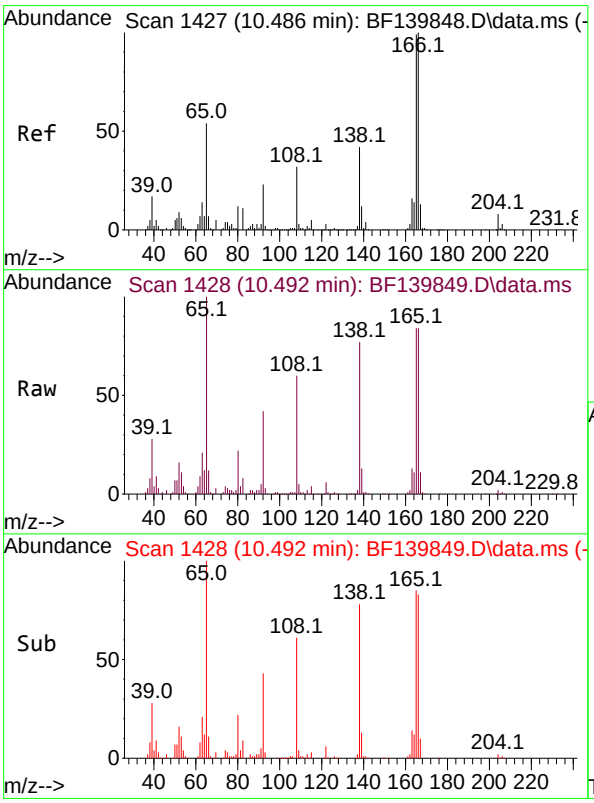
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.3	39.5
141	62.9	48.6	73.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

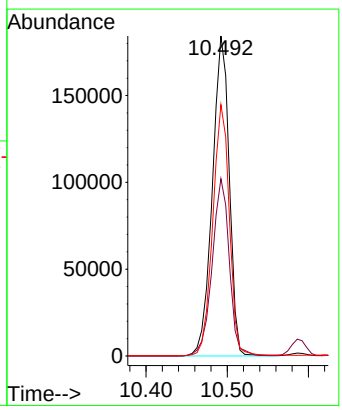


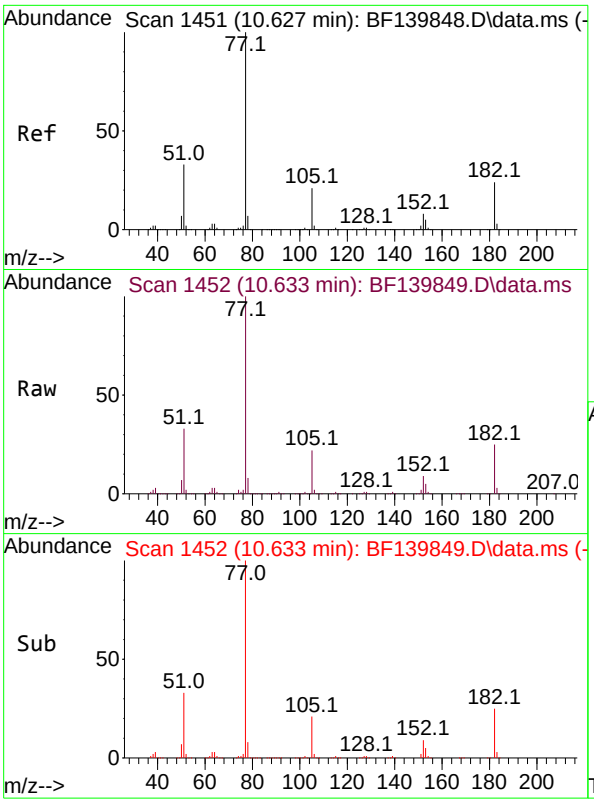


#62
4-Nitroaniline
Concen: 50.037 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:138 Resp: 266320

Ion	Ratio	Lower	Upper
138	100		
92	55.4	35.7	75.7
108	78.6	57.5	97.5

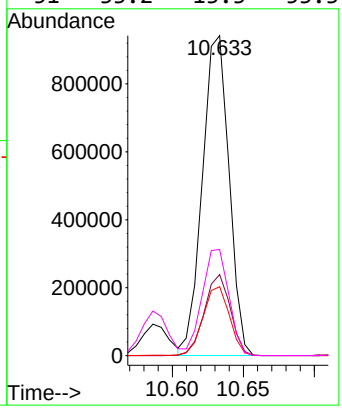




#63
Azobenzene
Concen: 46.881 ng
RT: 10.633 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion: 77 Resp: 123164

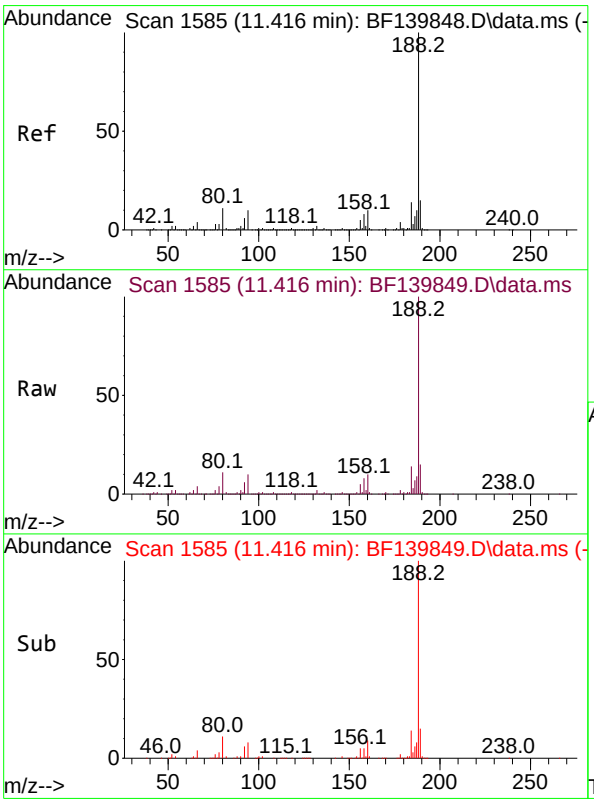
Ion	Ratio	Lower	Upper
77	100		
182	25.4	3.3	43.3
105	21.5	1.2	41.2
51	33.2	13.3	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

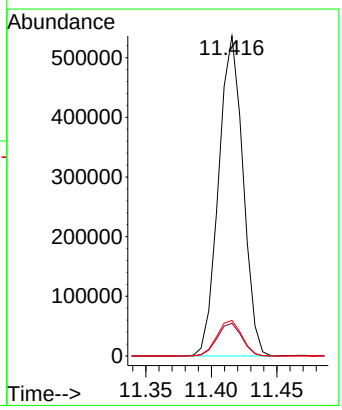
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

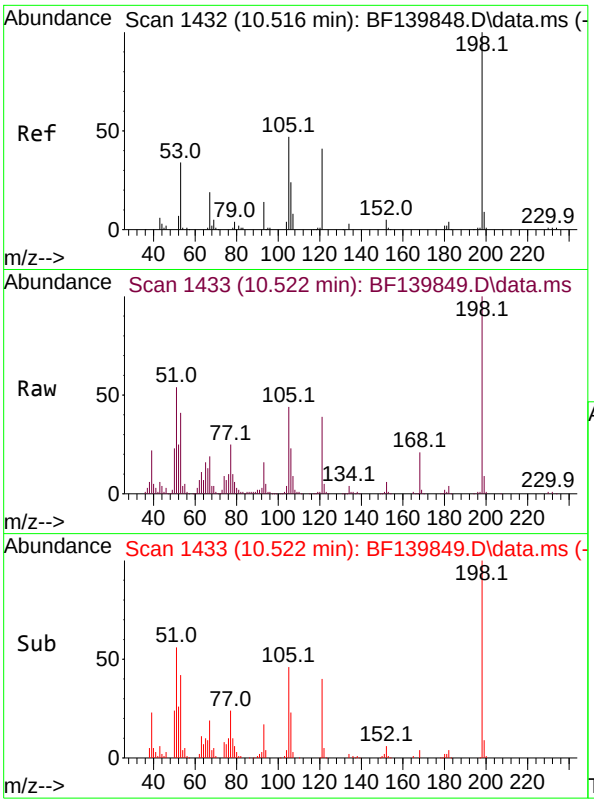


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:188 Resp: 694873

Ion	Ratio	Lower	Upper
188	100		
94	10.2	7.9	11.9
80	11.1	9.0	13.4





#65
4,6-Dinitro-2-methylphenol
Concen: 55.202 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

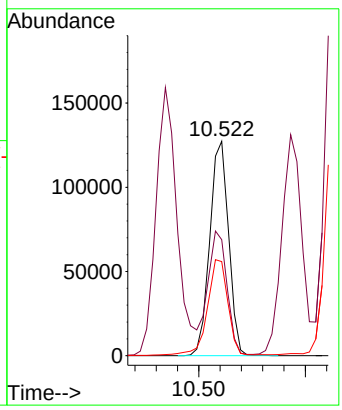
Tgt Ion:198 Resp: 15646

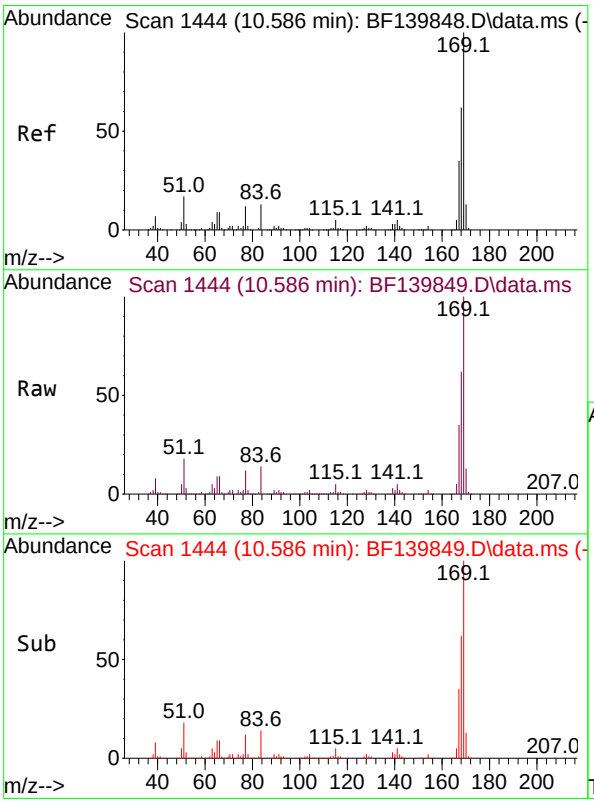
Ion	Ratio	Lower	Upper
198	100		
51	54.1	38.2	78.2
105	43.9	27.9	67.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

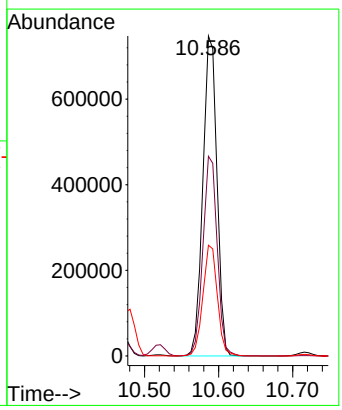


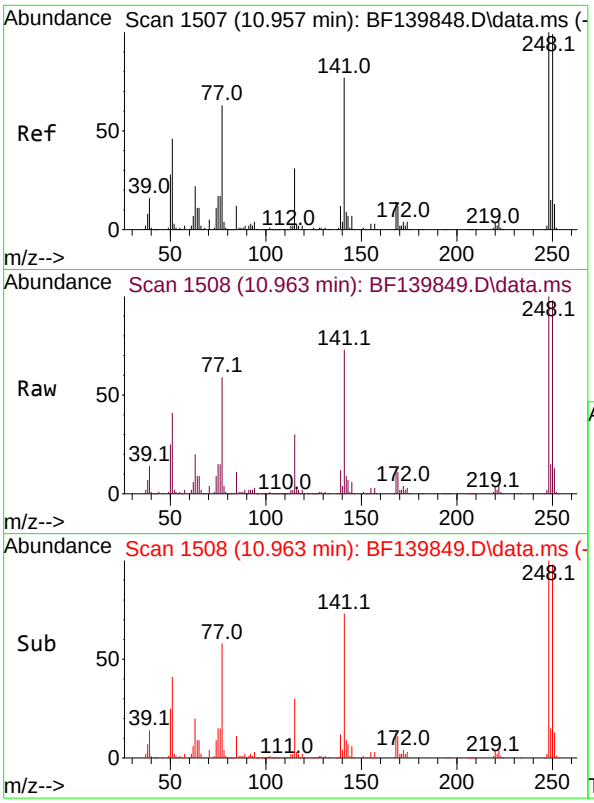


#66
n-Nitrosodiphenylamine
Concen: 47.472 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:169 Resp: 987295

Ion	Ratio	Lower	Upper
169	100		
168	62.4	49.8	74.6
167	34.6	28.0	42.0

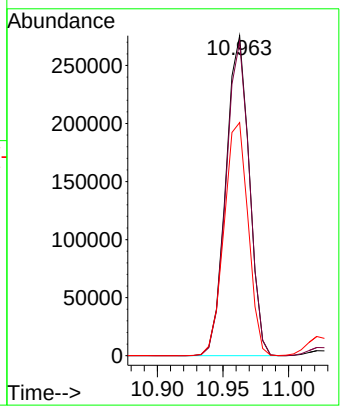




#67
4-Bromophenyl-phenylether
Concen: 47.746 ng
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:248 Resp: 34179

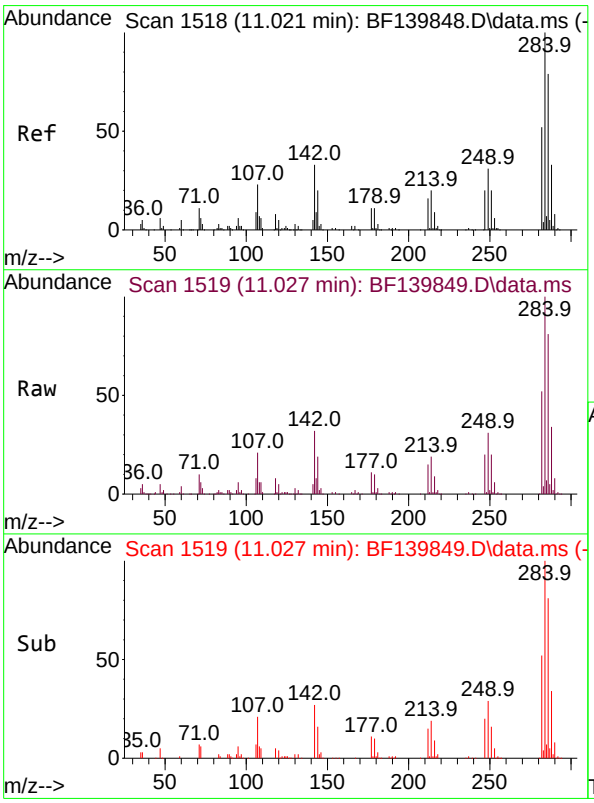
Ion	Ratio	Lower	Upper
248	100		
250	98.1	79.0	118.6
141	72.9	61.7	92.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

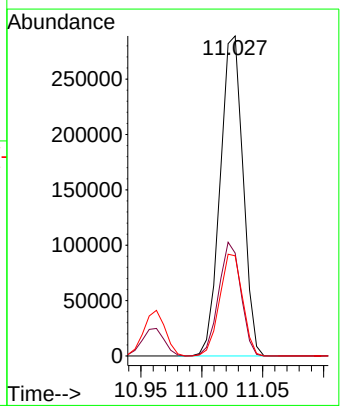
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

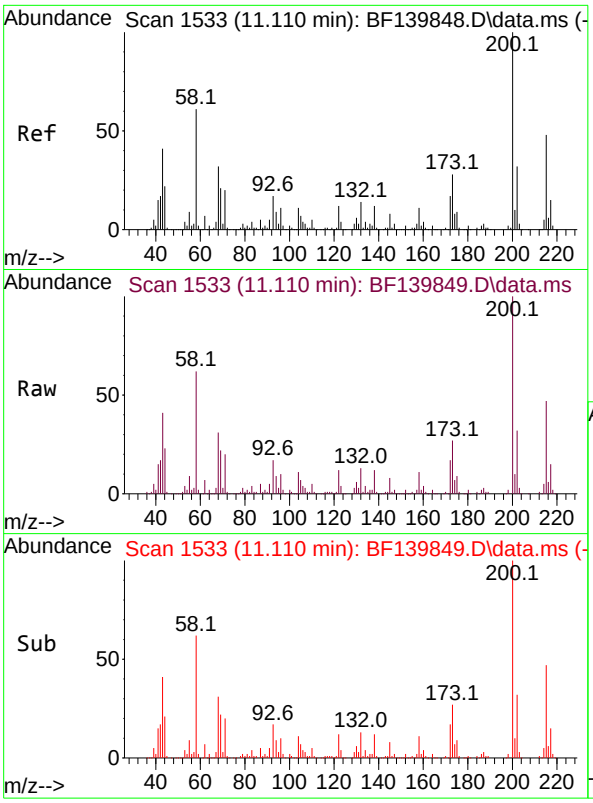


#68
Hexachlorobenzene
Concen: 46.823 ng
RT: 11.027 min Scan# 1519
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:284 Resp: 376968

Ion	Ratio	Lower	Upper
284	100		
142	32.2	26.9	40.3
249	31.3	25.3	37.9

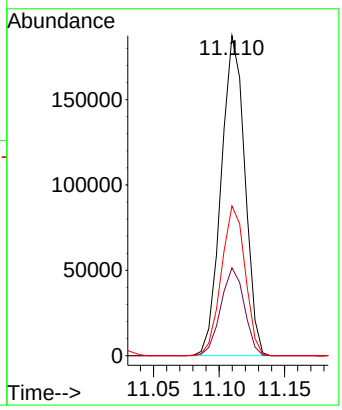




#69
Atrazine
Concen: 41.713 ng
RT: 11.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:200 Resp: 23499

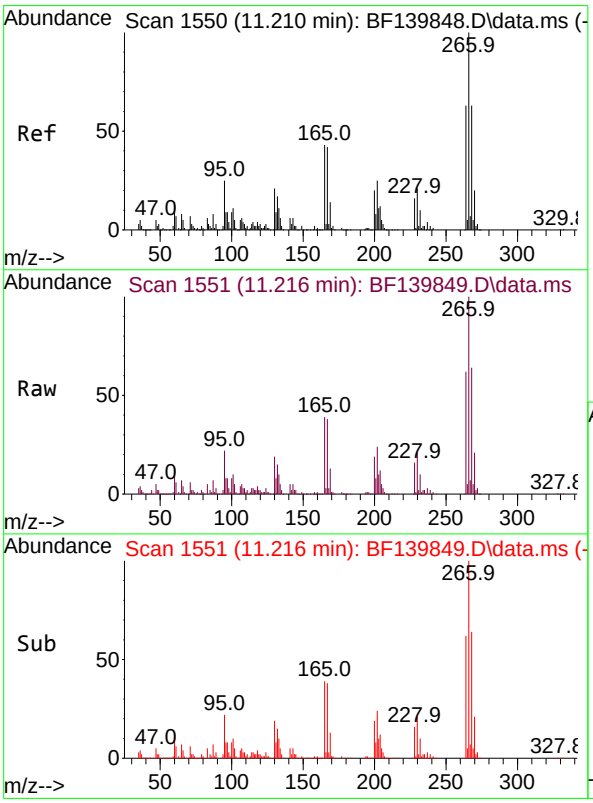
Ion	Ratio	Lower	Upper
200	100		
173	27.4	7.7	47.7
215	46.8	27.7	67.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

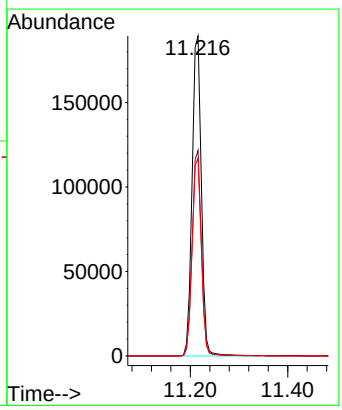
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

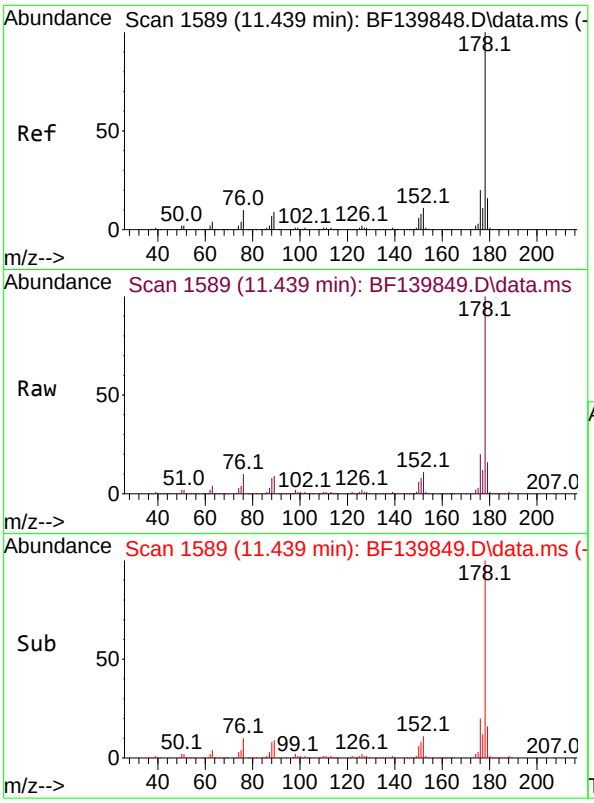


#70
Pentachlorophenol
Concen: 51.587 ng
RT: 11.216 min Scan# 1551
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:266 Resp: 252064

Ion	Ratio	Lower	Upper
266	100		
268	64.2	50.4	75.6
264	61.7	50.6	75.8

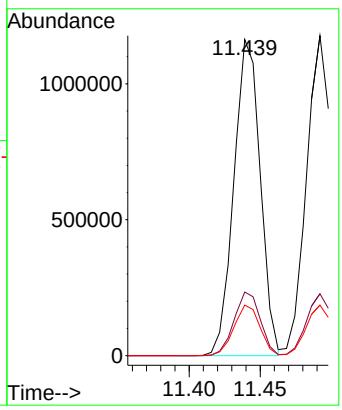




#71
Phenanthrene
Concen: 45.700 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:178 Resp: 150001

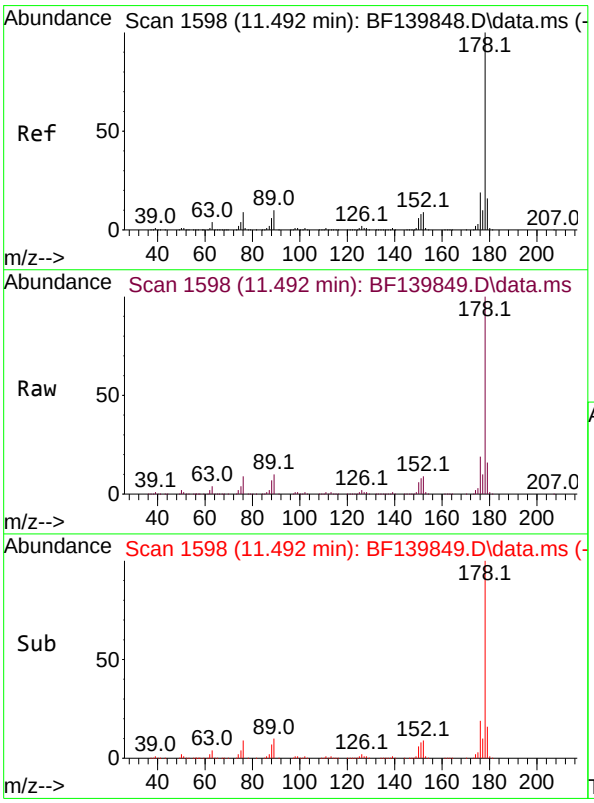
Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.8	23.6
179	16.0	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

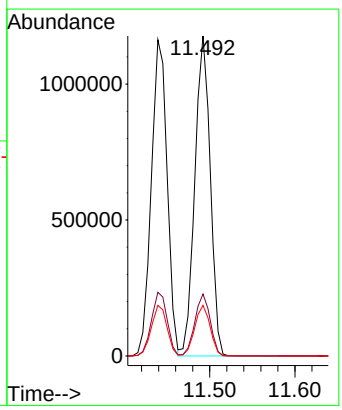
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

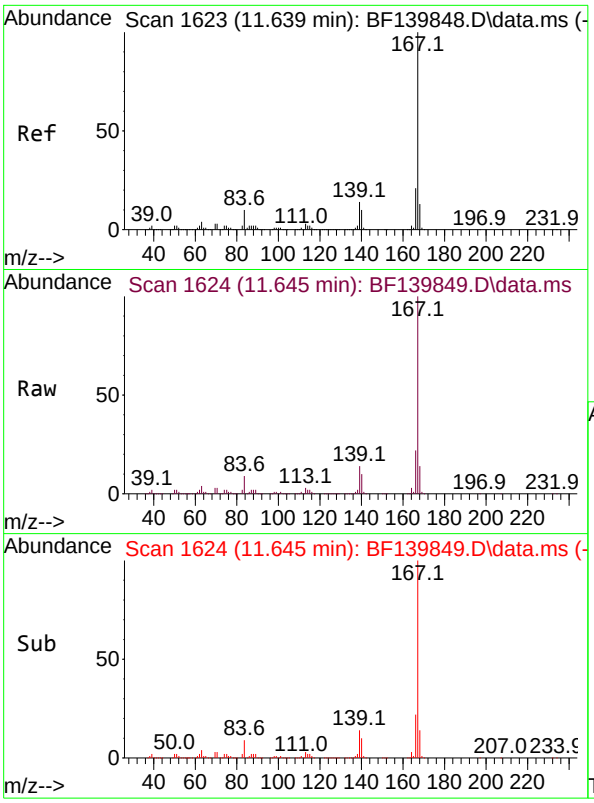


#72
Anthracene
Concen: 46.172 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:178 Resp: 1478655

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.8	12.4	18.6

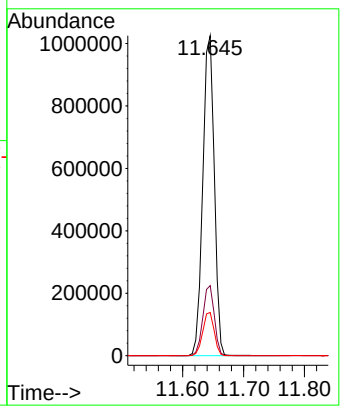




#73
Carbazole
Concen: 45.263 ng
RT: 11.645 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:167 Resp: 134809

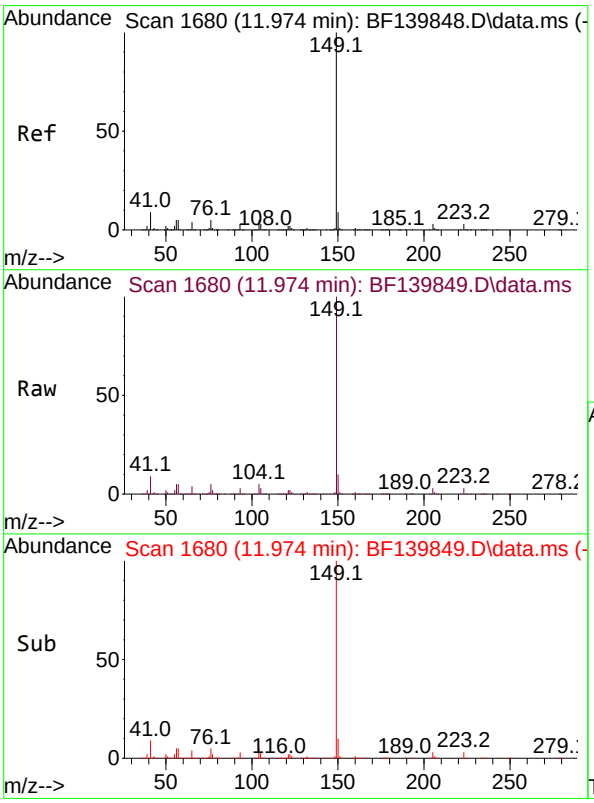
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.0	25.6
139	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

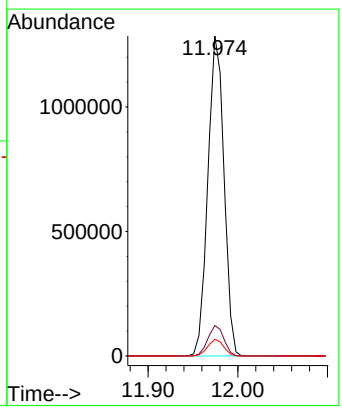
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

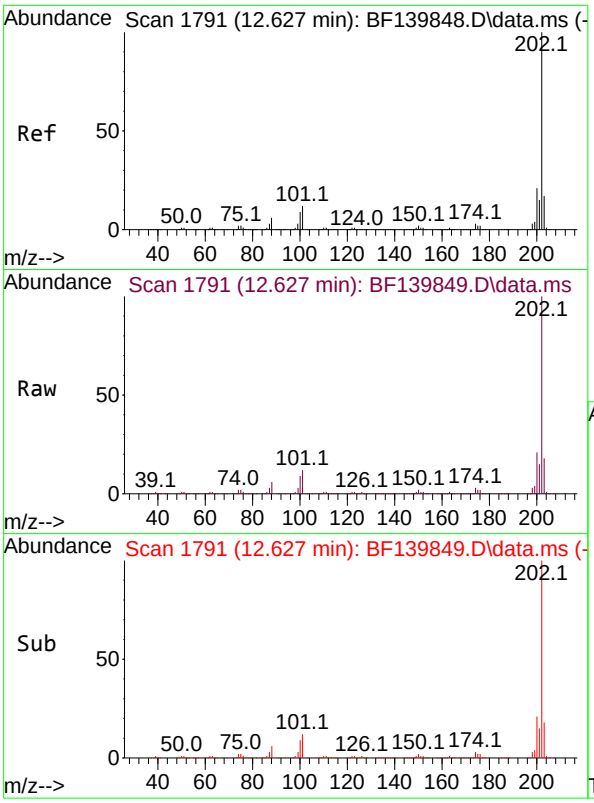


#74
Di-n-butylphthalate
Concen: 46.583 ng
RT: 11.974 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:149 Resp: 1602928

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.5	11.3
104	5.2	4.1	6.1

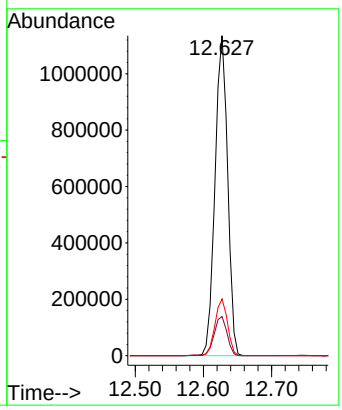




#75
Fluoranthene
Concen: 44.089 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:202 Resp: 146293

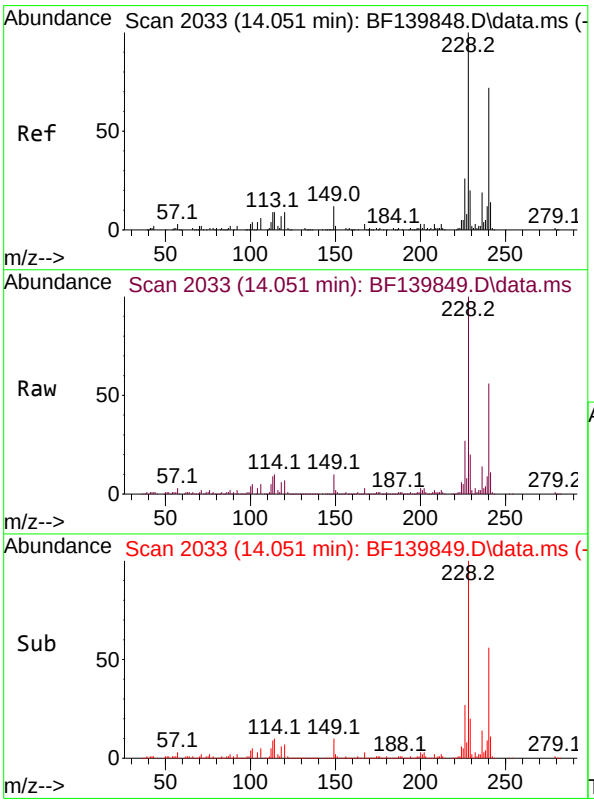
Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	31.9
203	17.7	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

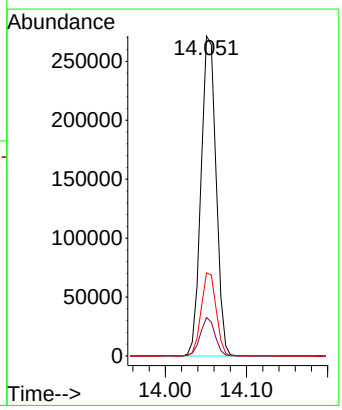
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

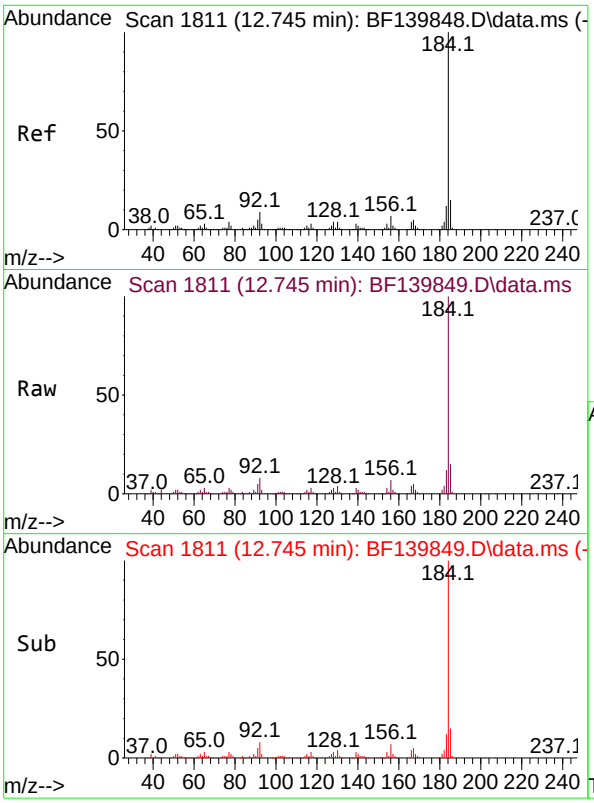


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:240 Resp: 349496

Ion	Ratio	Lower	Upper
240	100		
120	12.0	9.4	14.2
236	26.0	20.9	31.3

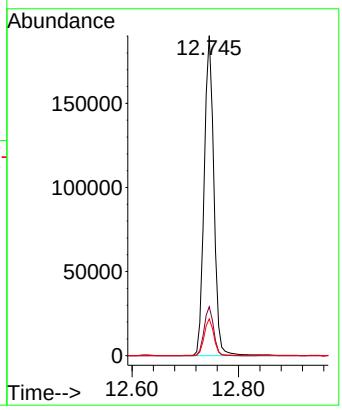




#77
Benzidine
Concen: 42.388 ng
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:184 Resp: 24094

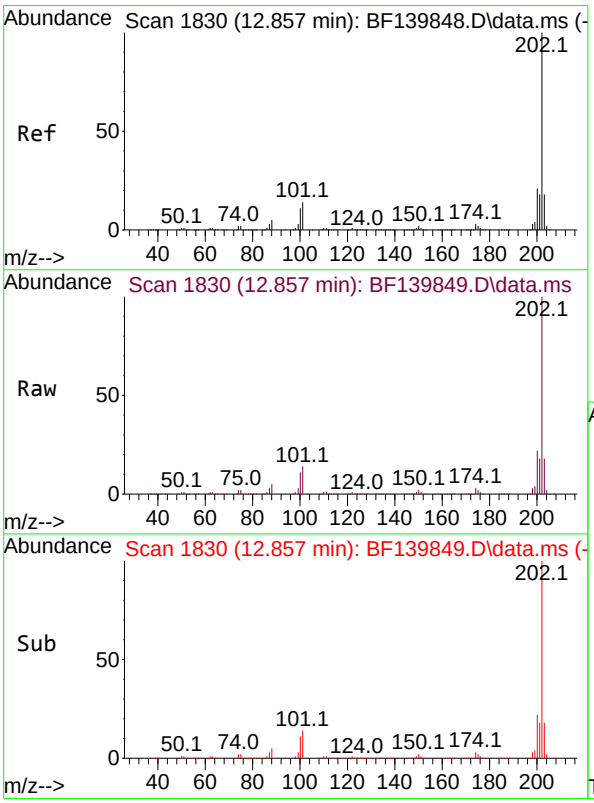
Ion	Ratio	Lower	Upper
184	100		
185	15.3	12.0	18.0
183	11.5	9.4	14.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

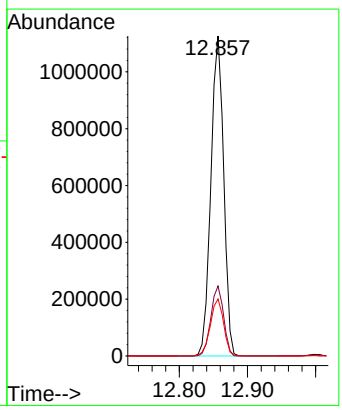
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

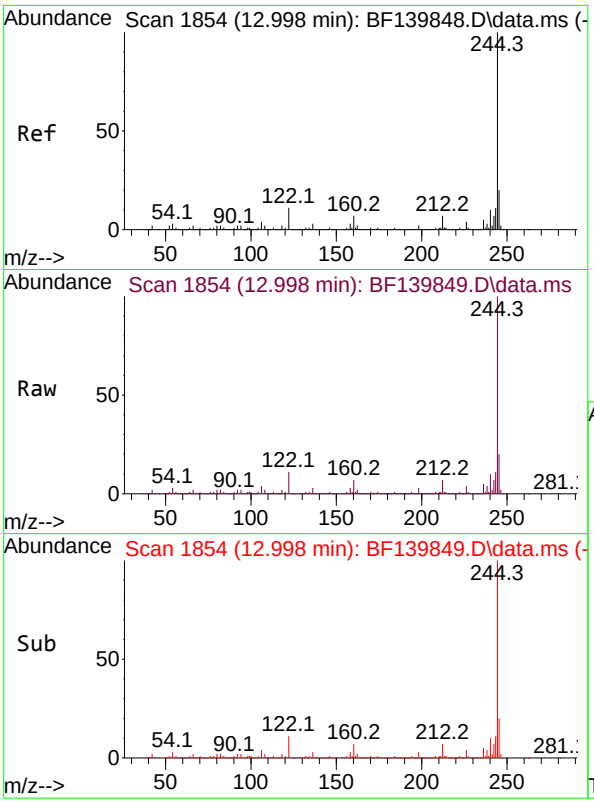


#78
Pyrene
Concen: 48.113 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:202 Resp: 1471893

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.2	25.8
203	17.8	14.2	21.4

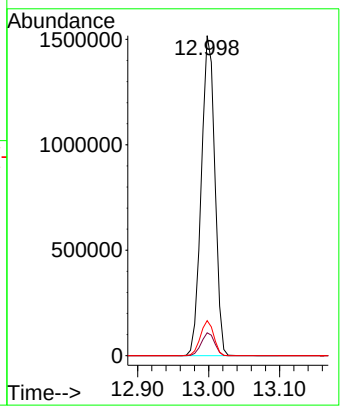




#79
Terphenyl-d14
Concen: 93.988 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:244 Resp: 201587

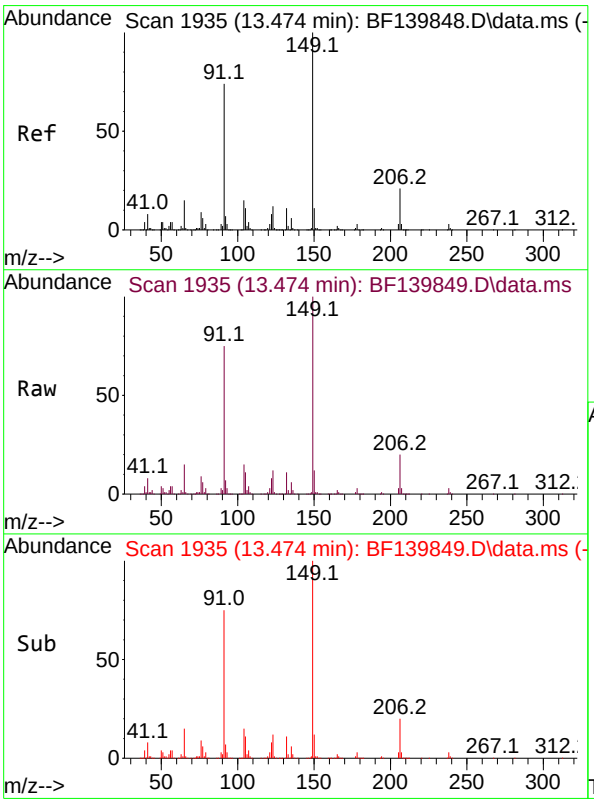
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	11.0	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

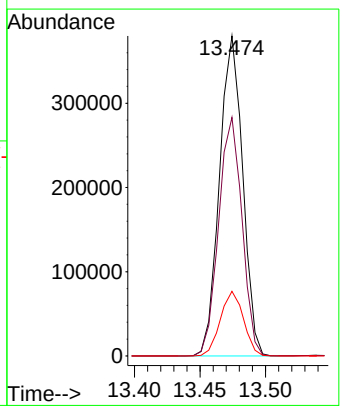
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

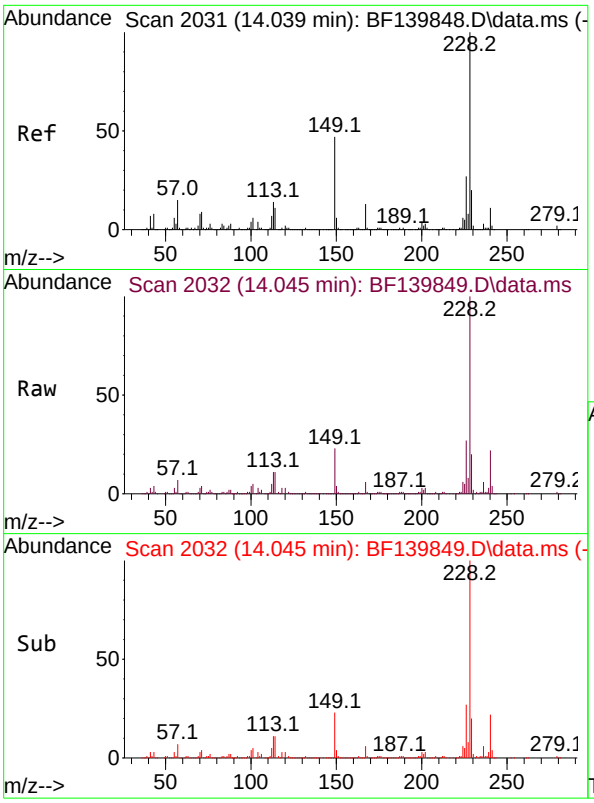


#80
Butylbenzylphthalate
Concen: 50.944 ng
RT: 13.474 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:149 Resp: 467242

Ion	Ratio	Lower	Upper
149	100		
91	74.5	59.4	89.2
206	20.2	16.4	24.6





#81
Benzo(a)anthracene
Concen: 48.667 ng
RT: 14.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

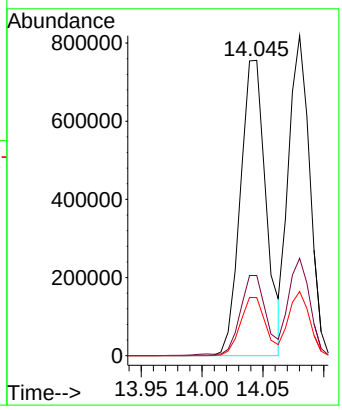
Tgt Ion:228 Resp: 110723

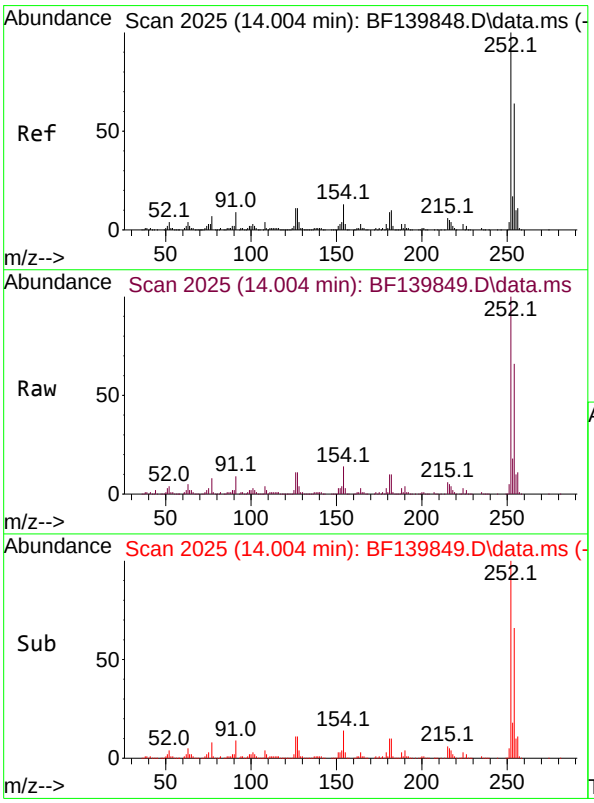
Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.6	32.4
229	19.7	16.1	24.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

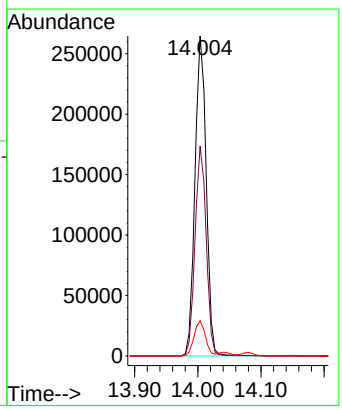


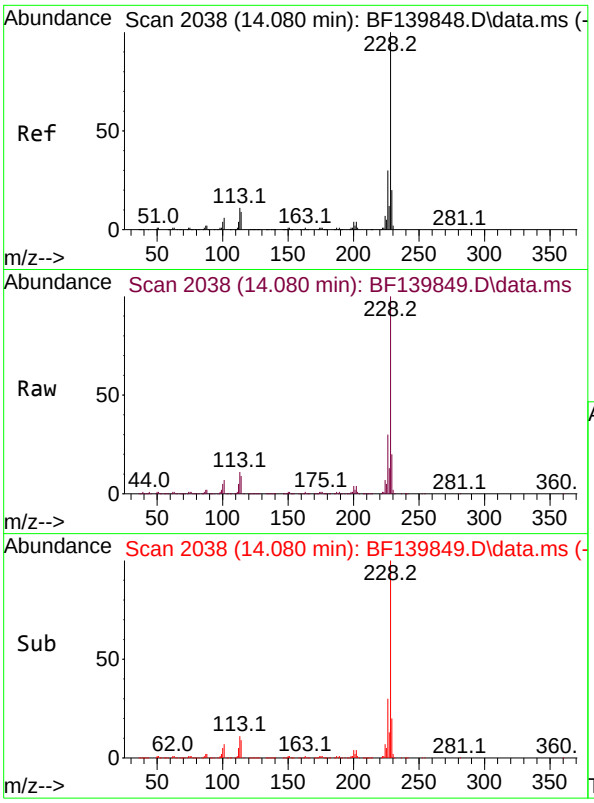


#82
3,3'-Dichlorobenzidine
Concen: 49.251 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:252 Resp: 326706

Ion	Ratio	Lower	Upper
252	100		
254	65.6	50.8	76.2
126	11.0	8.9	13.3

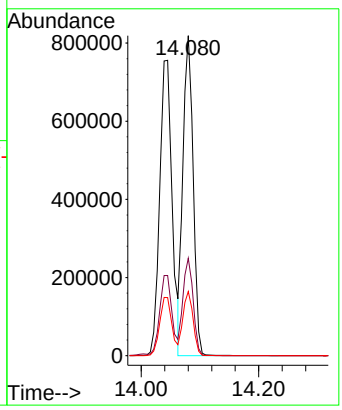




#83
Chrysene
Concen: 47.484 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:228 Resp: 99051

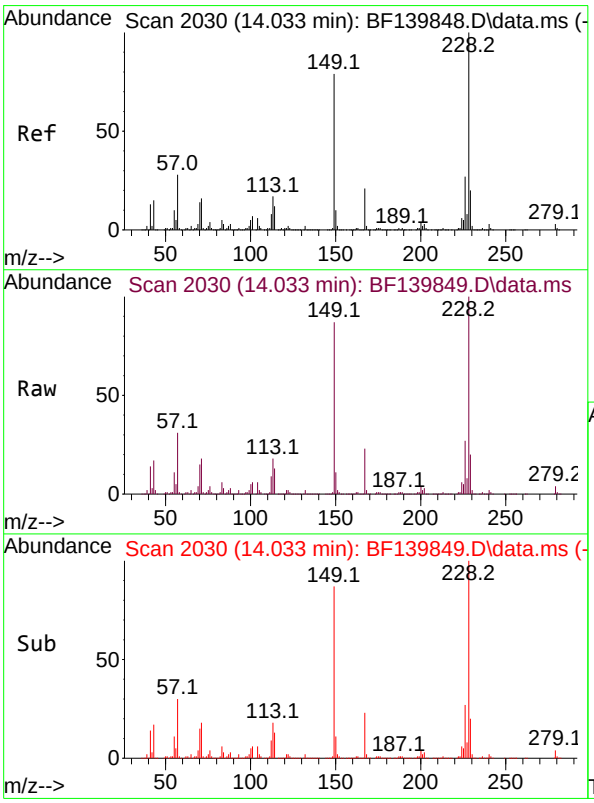
Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.1	36.1
229	20.1	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

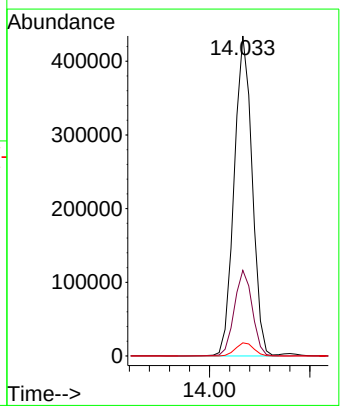
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

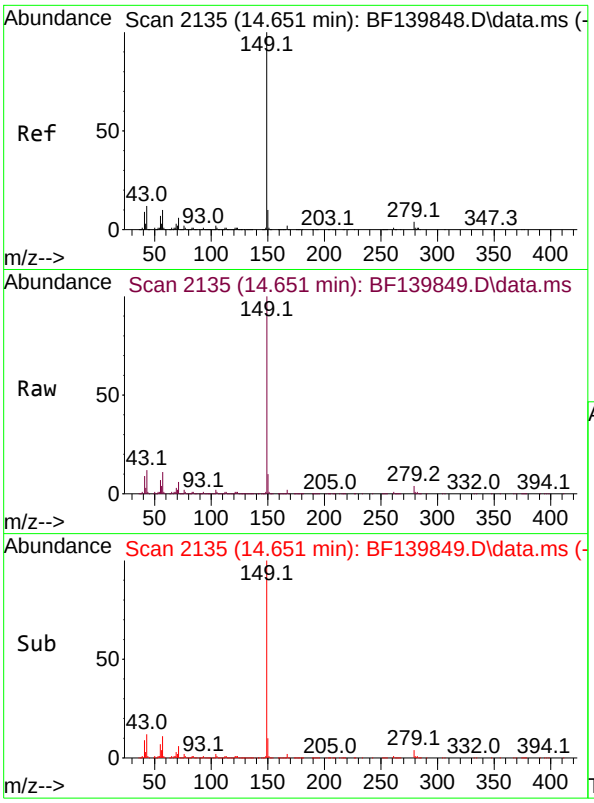


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.655 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:149 Resp: 541828

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.0
279	4.1	3.0	4.4

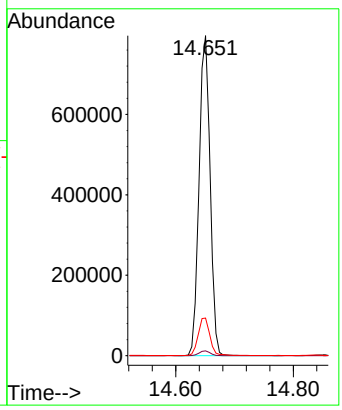




#85
Di-n-octyl phthalate
Concen: 55.195 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:149 Resp: 103305

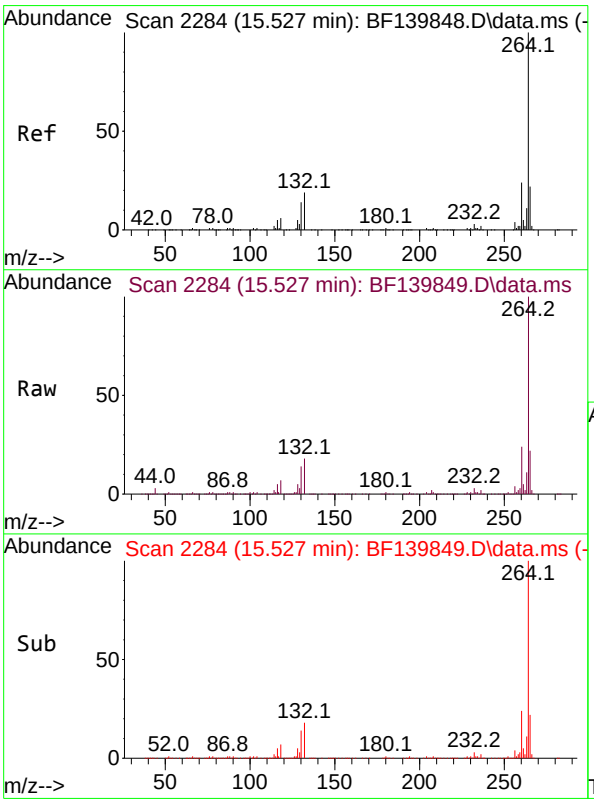
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	12.4	9.8	14.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

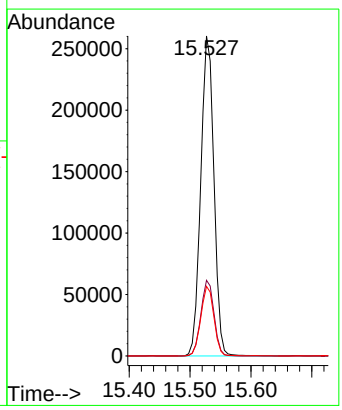
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

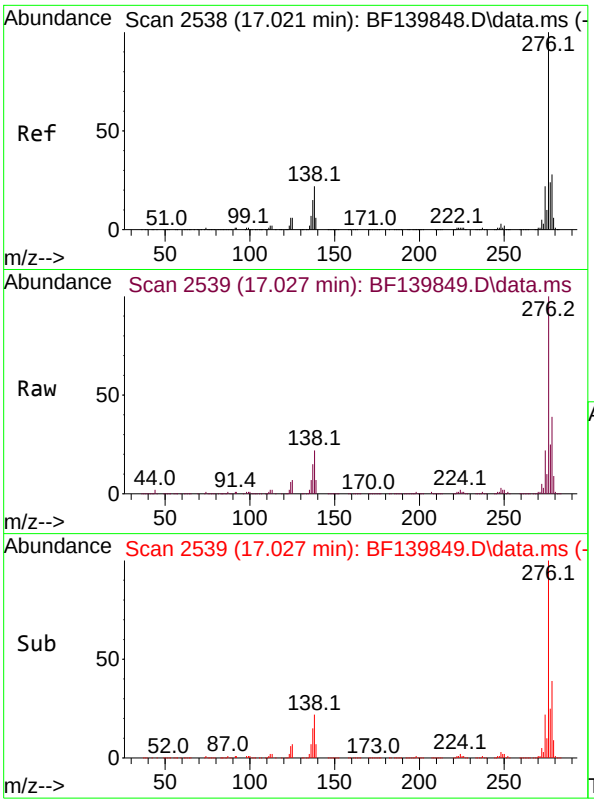


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:264 Resp: 390757

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.4	29.2
265	21.7	17.4	26.0

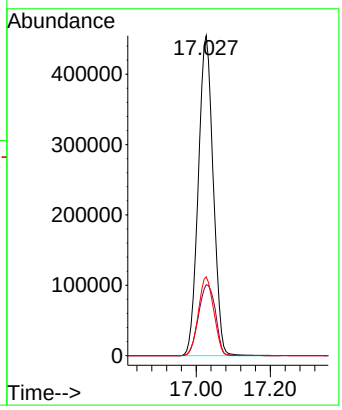




#87
Indeno(1,2,3-cd)pyrene
Concen: 50.463 ng
RT: 17.027 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:276 Resp: 126855

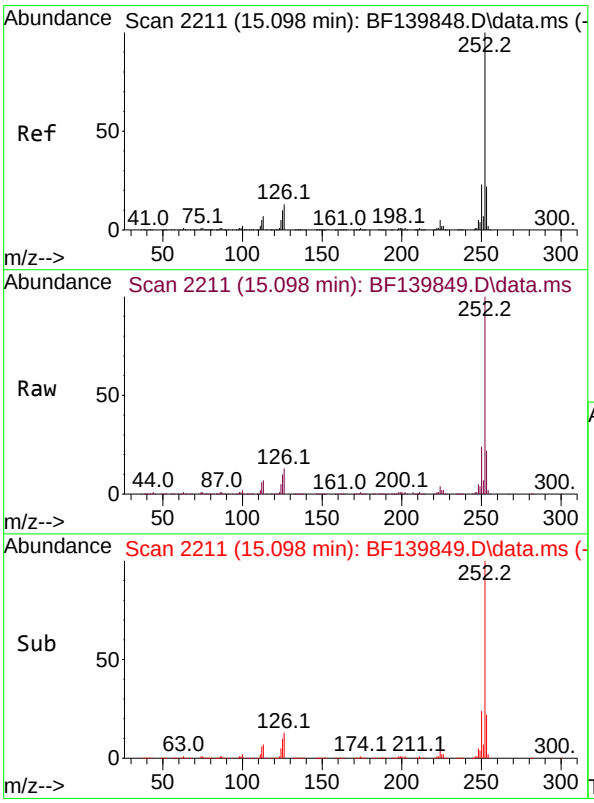
Ion	Ratio	Lower	Upper
276	100		
138	25.2	20.4	30.6
277	25.4	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

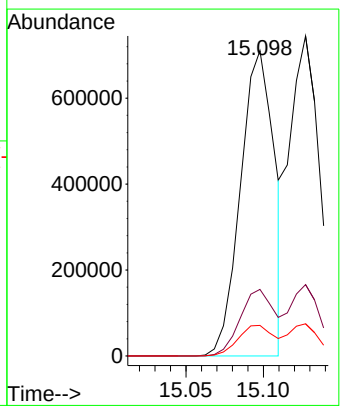
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

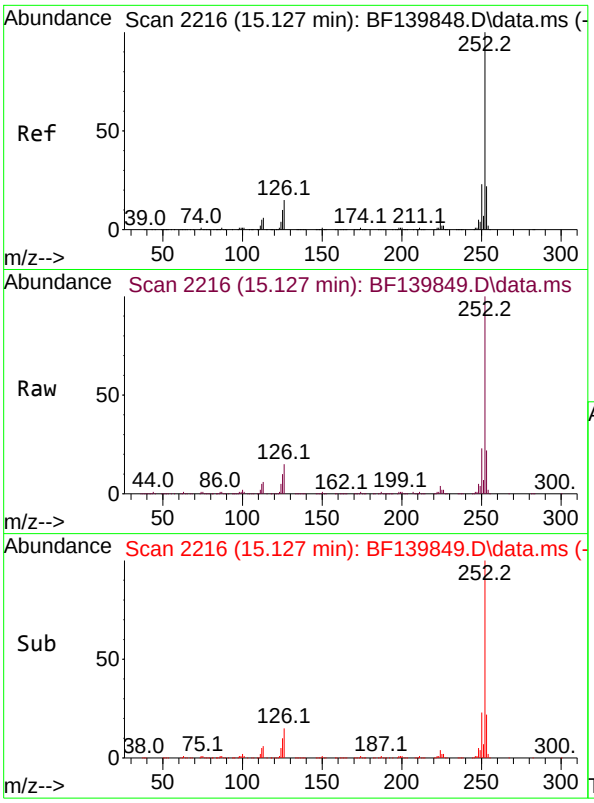


#88
Benzo(b)fluoranthene
Concen: 45.369 ng
RT: 15.098 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:252 Resp: 1079928

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	10.0	7.9	11.9

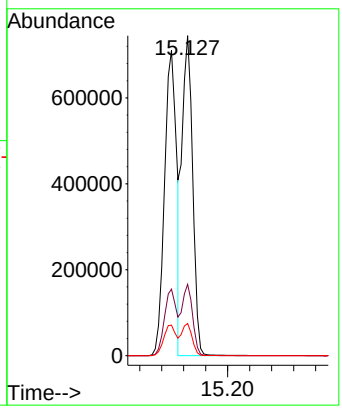




#89
Benzo(k)fluoranthene
Concen: 49.026 ng
RT: 15.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:252 Resp: 100642

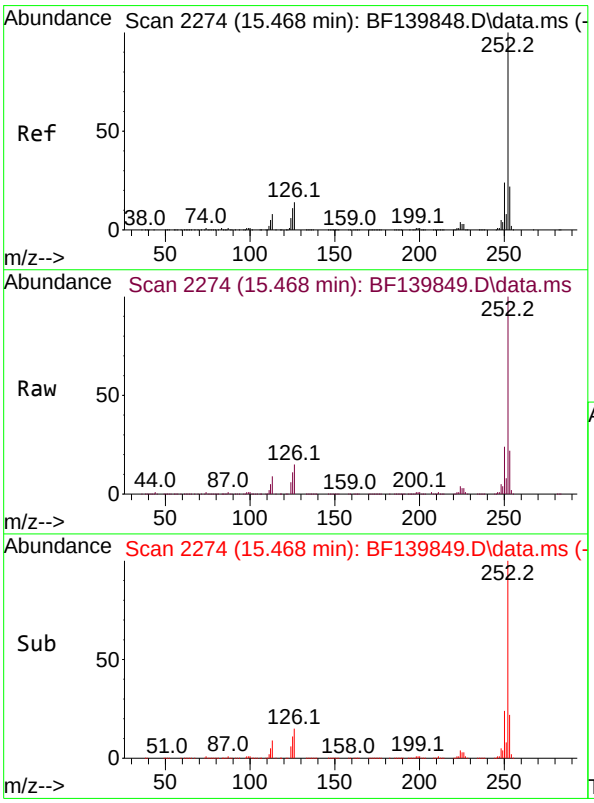
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.6	26.4
125	10.0	7.9	11.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

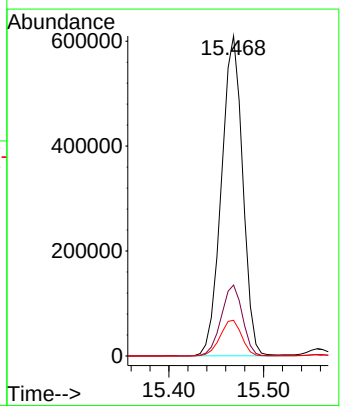
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

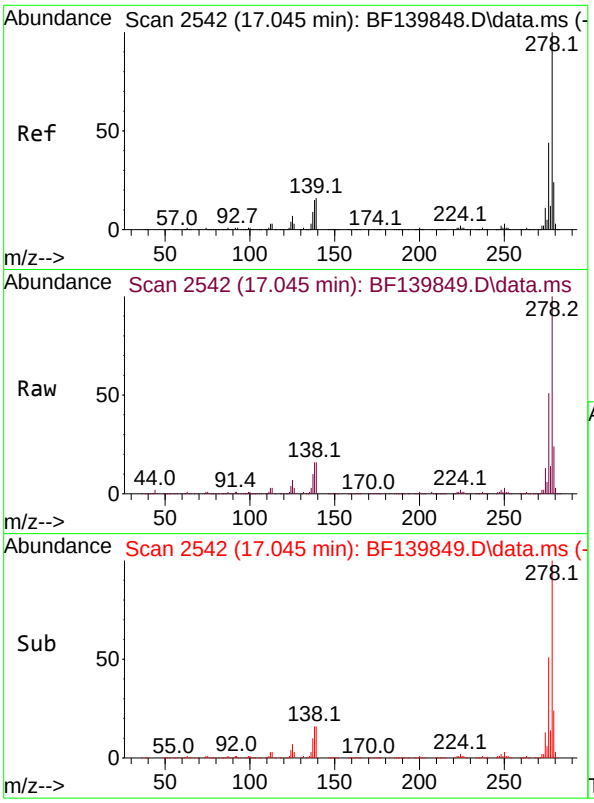


#90
Benzo(a)pyrene
Concen: 48.573 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:252 Resp: 951346

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.3	25.9
125	11.1	8.7	13.1

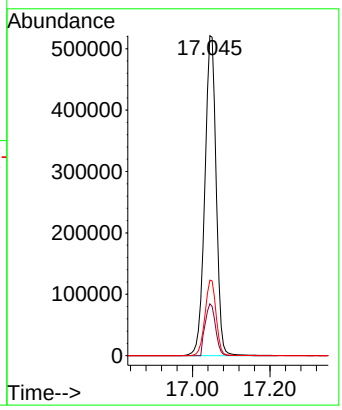




#91
Dibenzo(a,h)anthracene
Concen: 50.456 ng
RT: 17.045 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:278 Resp: 105811

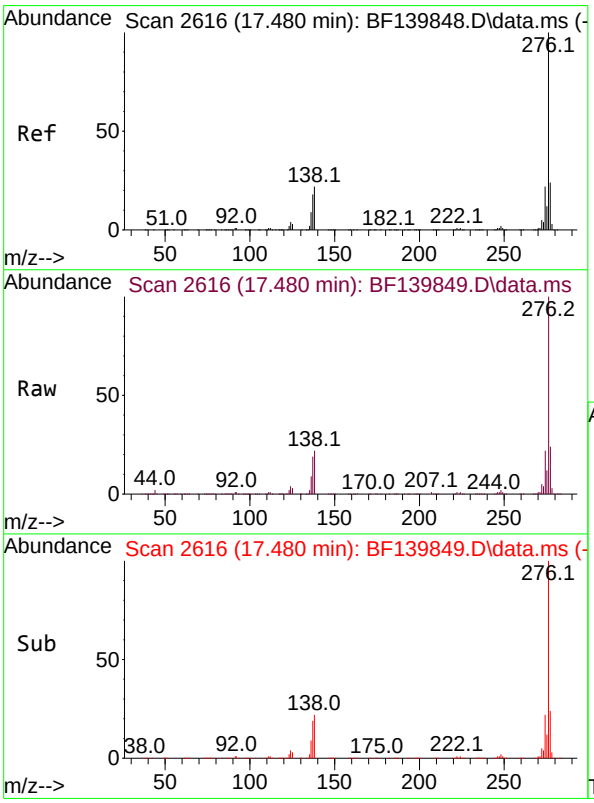
Ion	Ratio	Lower	Upper
278	100		
139	16.2	13.1	19.7
279	23.6	19.0	28.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

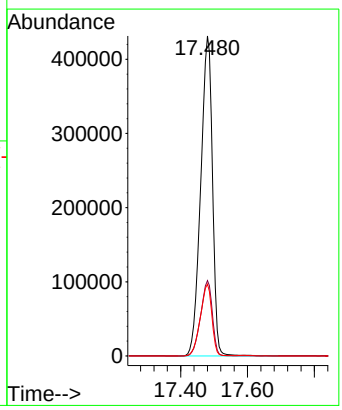
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



#92
Benzo(g,h,i)perylene
Concen: 50.394 ng
RT: 17.480 min Scan# 2616
Delta R.T. 0.000 min
Lab File: BF139849.D
Acq: 18 Oct 2024 12:49

Tgt Ion:276 Resp: 1055618

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.0	28.6
138	22.4	17.4	26.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139850.D
Acq On : 18 Oct 2024 13:17
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 18 14:20:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	189346	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	712033	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	389299	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	667372	20.000	ng	0.00
76) Chrysene-d12	14.057	240	337032	20.000	ng	0.00
86) Perylene-d12	15.527	264	377203	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	1347774	111.432	ng	0.00
7) Phenol-d6	6.516	99	1748088	111.592	ng	0.00
23) Nitrobenzene-d5	7.457	82	1523975	118.624	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	420891	115.586	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	2475821	105.106	ng	0.00
79) Terphenyl-d14	13.004	244	2266127	109.563	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.687	88	330127	58.541	ng	98
3) Pyridine	3.446	79	798529	57.127	ng	99
4) n-Nitrosodimethylamine	3.410	42	451209	60.081	ng	98
6) Aniline	6.551	93	840113	57.544	ng	100
8) 2-Chlorophenol	6.675	128	693549	56.091	ng	96
9) Benzaldehyde	6.440	77	484510	54.980	ng	99
10) Phenol	6.528	94	909456m	55.317	ng	
11) bis(2-Chloroethyl)ether	6.628	93	709494	56.838	ng	99
12) 1,3-Dichlorobenzene	6.834	146	790296	55.679	ng	98
13) 1,4-Dichlorobenzene	6.910	146	790397	55.738	ng	99
14) 1,2-Dichlorobenzene	7.063	146	719470	54.363	ng	99
15) Benzyl Alcohol	7.028	79	650971	56.651	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1201584	56.453	ng	99
17) 2-Methylphenol	7.134	107	603882	57.276	ng	99
18) Hexachloroethane	7.404	117	290250	57.398	ng	100
19) n-Nitroso-di-n-propyla...	7.310	70	526516	55.418	ng	99
20) 3+4-Methylphenols	7.293	107	738542	54.764	ng	93
22) Acetophenone	7.304	105	969975	55.618	ng	99
24) Nitrobenzene	7.475	77	828015	58.785	ng	98
25) Isophorone	7.716	82	1409786	57.816	ng	100
26) 2-Nitrophenol	7.787	139	344300	64.793	ng	100
27) 2,4-Dimethylphenol	7.822	122	500332	56.468	ng	99
28) bis(2-Chloroethoxy)met...	7.922	93	832755	56.369	ng	99
29) 2,4-Dichlorophenol	8.028	162	584871	57.952	ng	99
30) 1,2,4-Trichlorobenzene	8.116	180	635946	56.947	ng	99
31) Naphthalene	8.198	128	2016330	54.907	ng	99
32) Benzoic acid	7.945	122	502169	64.980	ng	98
33) 4-Chloroaniline	8.245	127	695566	55.548	ng	99
34) Hexachlorobutadiene	8.316	225	399483	56.934	ng	99
35) Caprolactam	8.622	113	188948	58.880	ng	97
36) 4-Chloro-3-methylphenol	8.716	107	646732	57.872	ng	100
37) 2-Methylnaphthalene	8.887	142	1245977	55.401	ng	99
38) 1-Methylnaphthalene	8.987	142	1211981	54.926	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	591461	56.315	ng	100
41) Hexachlorocyclopentadiene	9.039	237	216567	59.262	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	447702	60.209	ng	99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139850.D
Acq On : 18 Oct 2024 13:17
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:20:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	431080	56.191	ng		99
46) 1,1'-Biphenyl	9.351	154	1474193	54.396	ng		99
47) 2-Chloronaphthalene	9.375	162	1214856	55.657	ng		98
48) 2-Nitroaniline	9.469	65	423080	63.375	ng		97
49) Acenaphthylene	9.792	152	1758248	55.718	ng		99
50) Dimethylphthalate	9.657	163	1358812	56.037	ng		100
51) 2,6-Dinitrotoluene	9.710	165	320076	60.963	ng		97
52) Acenaphthene	9.969	154	1148095	56.242	ng		98
53) 3-Nitroaniline	9.881	138	328790	60.726	ng		98
54) 2,4-Dinitrophenol	9.981	184	131611	61.938	ng	#	29
55) Dibenzofuran	10.139	168	1605572	54.819	ng		100
56) 4-Nitrophenol	10.028	139	256728	61.631	ng		100
57) 2,4-Dinitrotoluene	10.116	165	410361	63.558	ng		99
58) Fluorene	10.481	166	1192018	53.435	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	342475	56.946	ng		99
60) Diethylphthalate	10.351	149	1355992	56.954	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	606730	53.858	ng		98
62) 4-Nitroaniline	10.498	138	314525	61.507	ng		98
63) Azobenzene	10.633	77	1415762	56.090	ng		99
65) 4,6-Dinitro-2-methylph...	10.522	198	184974	67.951	ng		99
66) n-Nitrosodiphenylamine	10.592	169	1122831	56.214	ng		100
67) 4-Bromophenyl-phenylether	10.963	248	392570	57.100	ng		98
68) Hexachlorobenzene	11.028	284	442187	57.187	ng		98
69) Atrazine	11.116	200	307149	56.767	ng		99
70) Pentachlorophenol	11.216	266	289014	61.587	ng		99
71) Phenanthrene	11.439	178	1721763	54.618	ng		99
72) Anthracene	11.492	178	1667221	54.206	ng		99
73) Carbazole	11.645	167	1545085	54.015	ng		99
74) Di-n-butylphthalate	11.975	149	1819929	55.069	ng		100
75) Fluoranthene	12.627	202	1671405	52.448	ng		99
77) Benzidine	12.745	184	205548	37.499	ng		99
78) Pyrene	12.857	202	1667489	56.522	ng		99
80) Butylbenzylphthalate	13.474	149	537039	60.719	ng		98
81) Benzo(a)anthracene	14.045	228	1250382	56.992	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	386072	60.353	ng		99
83) Chrysene	14.080	228	1163808	57.855	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	632594	63.749	ng		100
85) Di-n-octyl phthalate	14.651	149	1220737	67.634	ng		100
87) Indeno(1,2,3-cd)pyrene	17.027	276	1500084	61.817	ng		99
88) Benzo(b)fluoranthene	15.098	252	1402395	61.033	ng		100
89) Benzo(k)fluoranthene	15.127	252	1051303	53.053	ng		100
90) Benzo(a)pyrene	15.468	252	1129942	59.764	ng		100
91) Dibenzo(a,h)anthracene	17.051	278	1228124	60.667	ng		99
92) Benzo(g,h,i)perylene	17.486	276	1238955	61.272	ng		100

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

ICAL Form

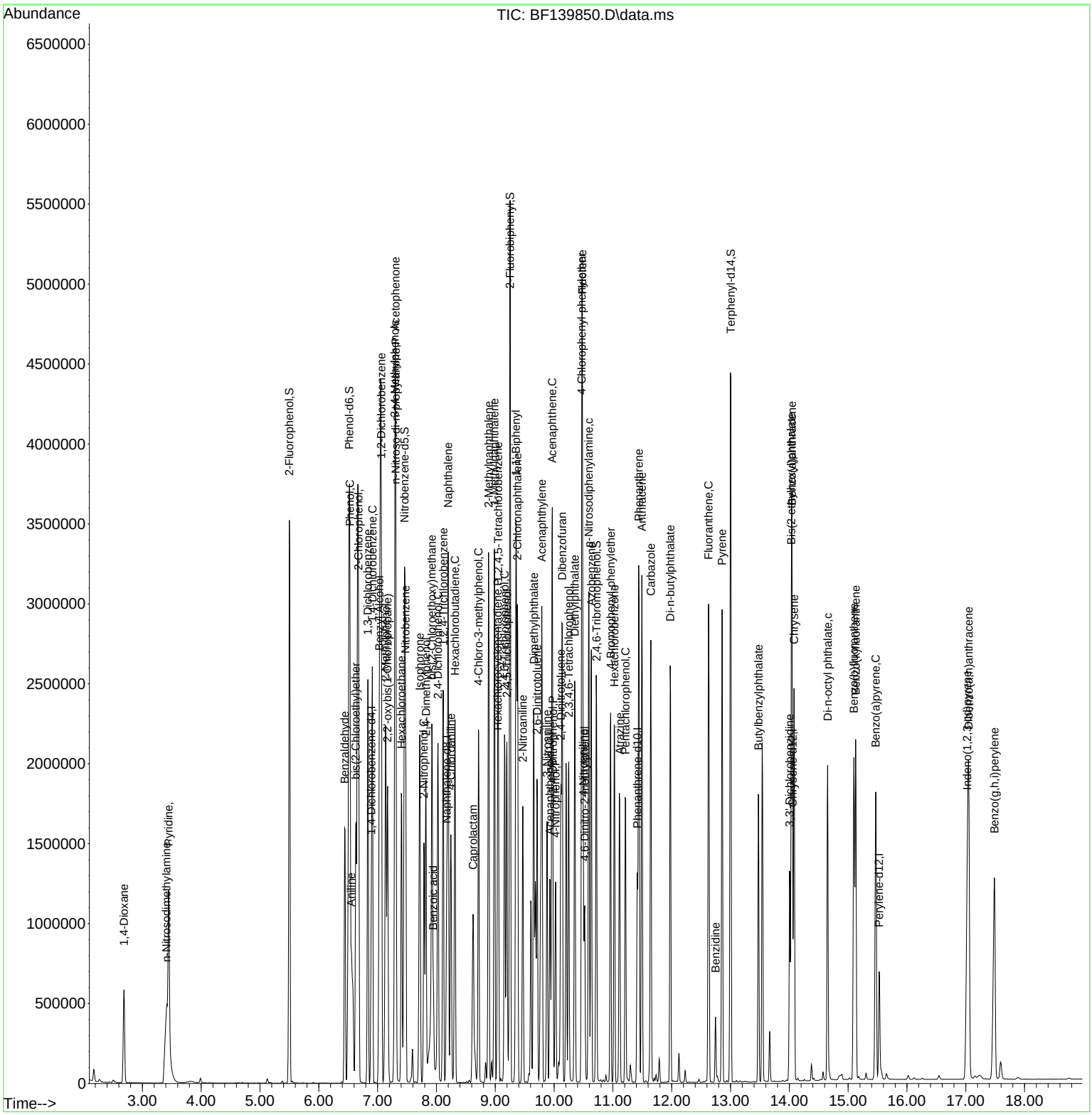
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139850.D
Acq On : 18 Oct 2024 13:17
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

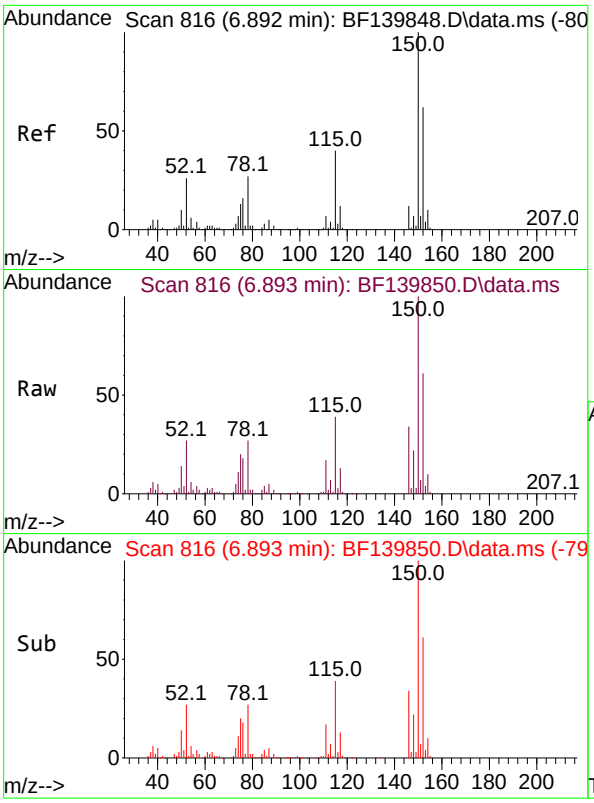
Quant Time: Oct 18 14:20:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

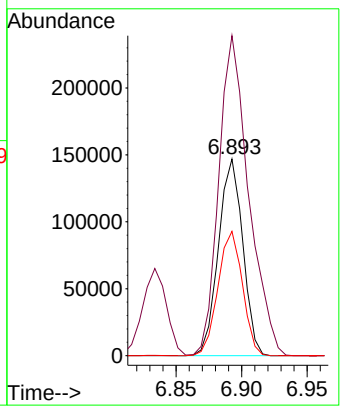




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:152 Resp: 18934

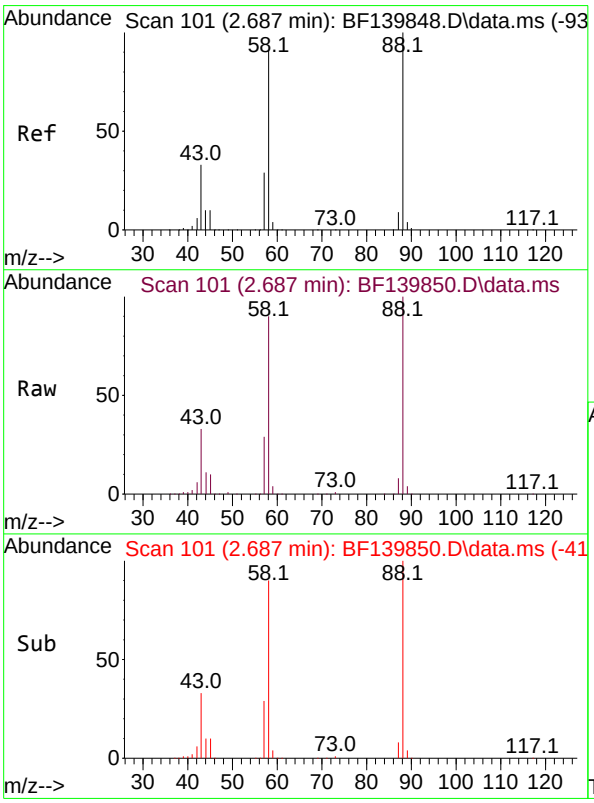
Ion	Ratio	Lower	Upper
152	100		
150	162.7	130.2	195.2
115	63.2	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

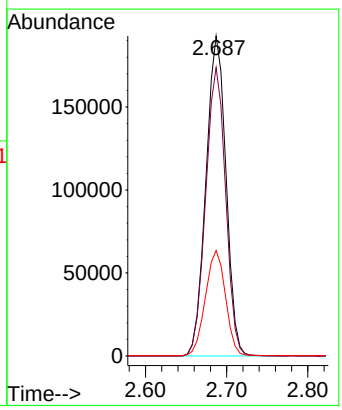
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

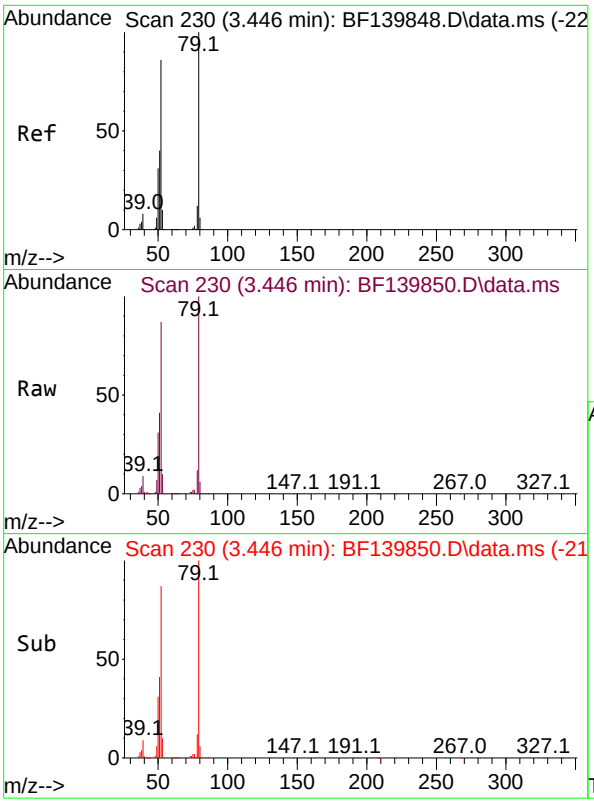


#2
1,4-Dioxane
Concen: 58.541 ng
RT: 2.687 min Scan# 101
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 88 Resp: 330127

Ion	Ratio	Lower	Upper
88	100		
58	89.7	73.3	109.9
43	33.0	27.1	40.7

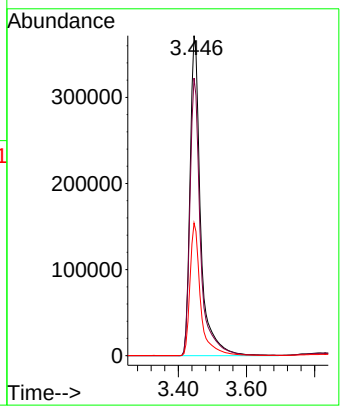




#3
Pyridine
Concen: 57.127 ng
RT: 3.446 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 79 Resp: 79852

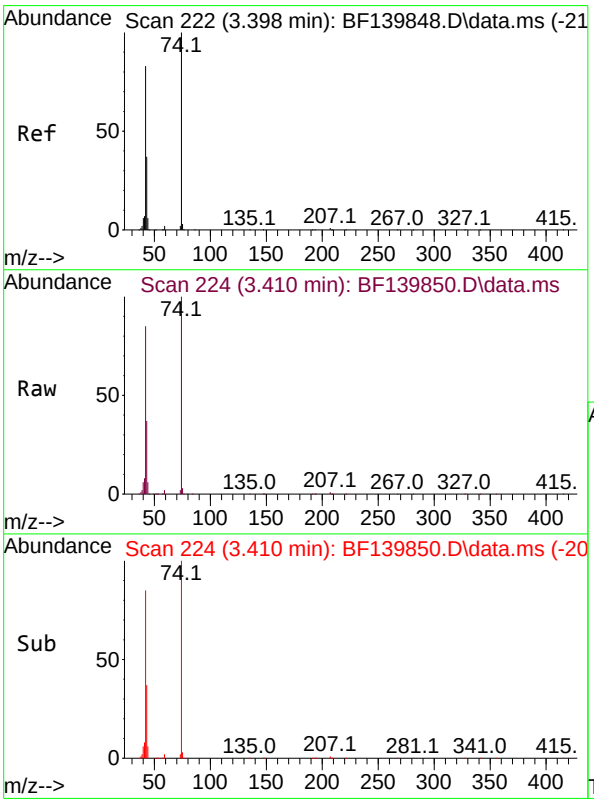
Ion	Ratio	Lower	Upper
79	100		
52	86.8	68.5	102.7
51	41.4	32.3	48.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

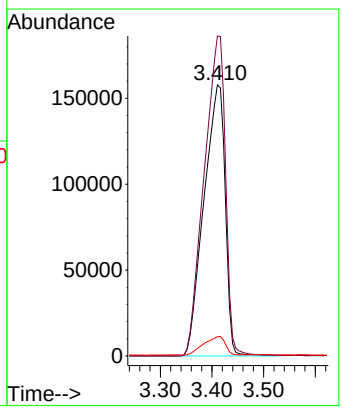
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

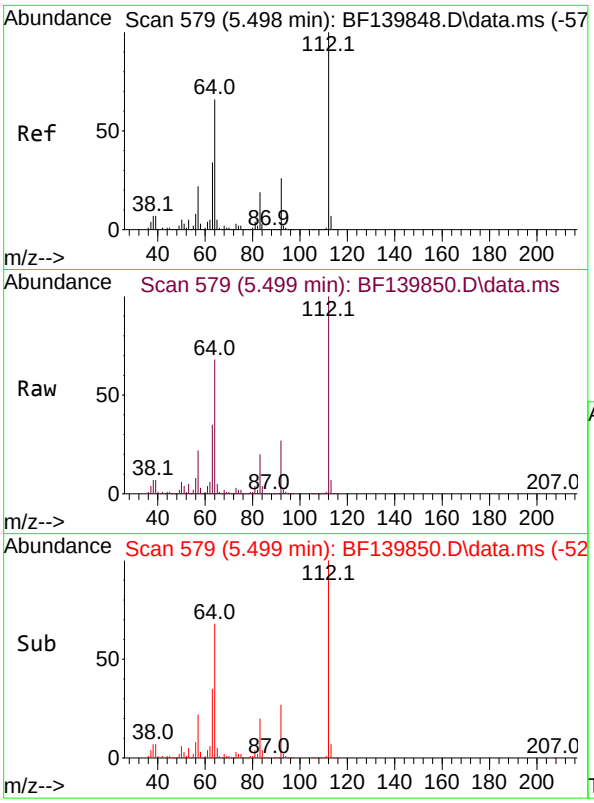


#4
n-Nitrosodimethylamine
Concen: 60.081 ng
RT: 3.410 min Scan# 224
Delta R.T. 0.012 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 42 Resp: 451209

Ion	Ratio	Lower	Upper
42	100		
74	118.0	96.2	144.4
44	7.1	6.2	9.2

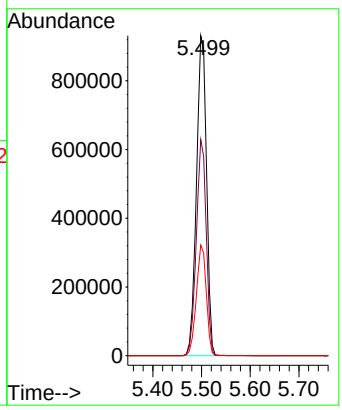




#5
2-Fluorophenol
Concen: 111.432 ng
RT: 5.499 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:112 Resp: 134777

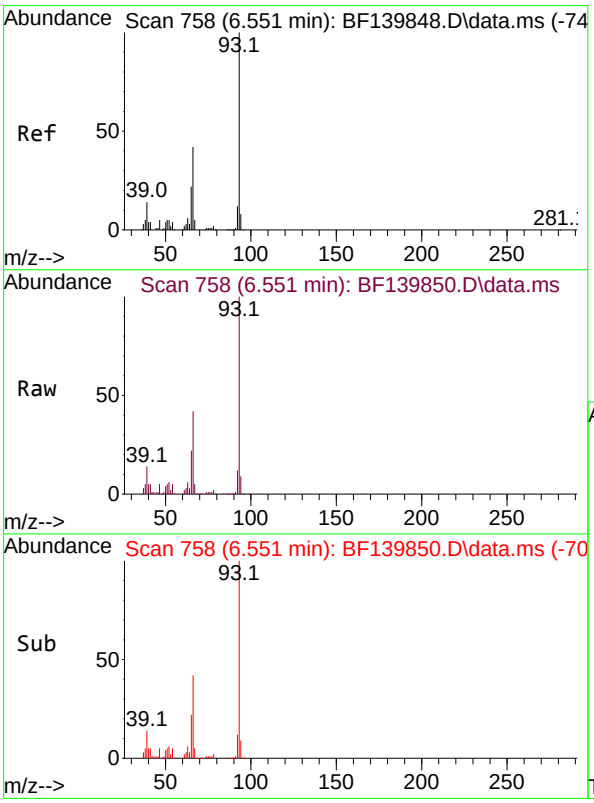
Ion	Ratio	Lower	Upper
112	100		
64	67.5	53.0	79.6
63	34.5	27.0	40.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

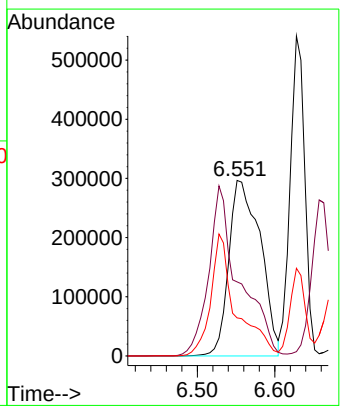
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

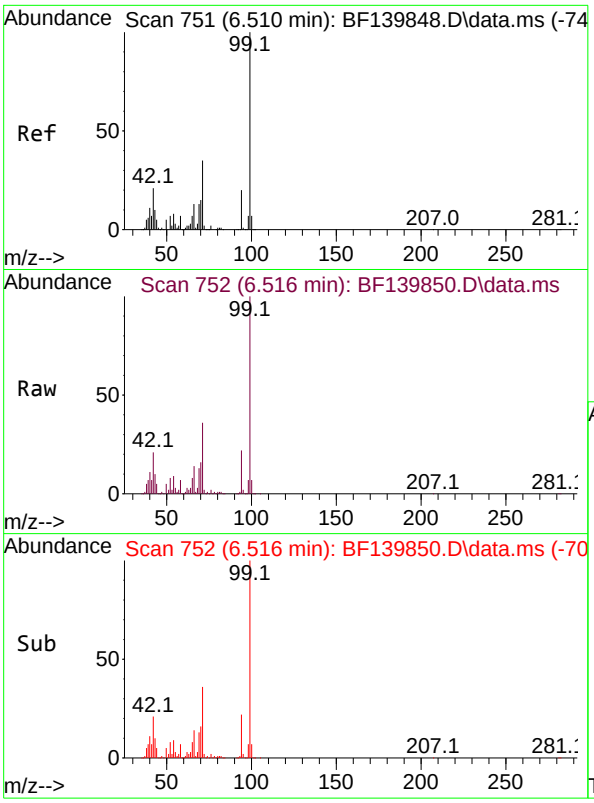


#6
Aniline
Concen: 57.544 ng
RT: 6.551 min Scan# 758
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 93 Resp: 840113

Ion	Ratio	Lower	Upper
93	100		
66	42.2	34.0	51.0
65	21.7	17.4	26.0

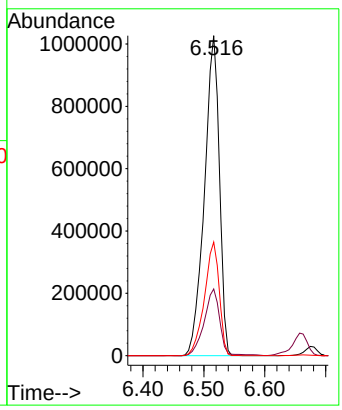




#7
Phenol-d6
Concen: 111.592 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 99 Resp: 174808

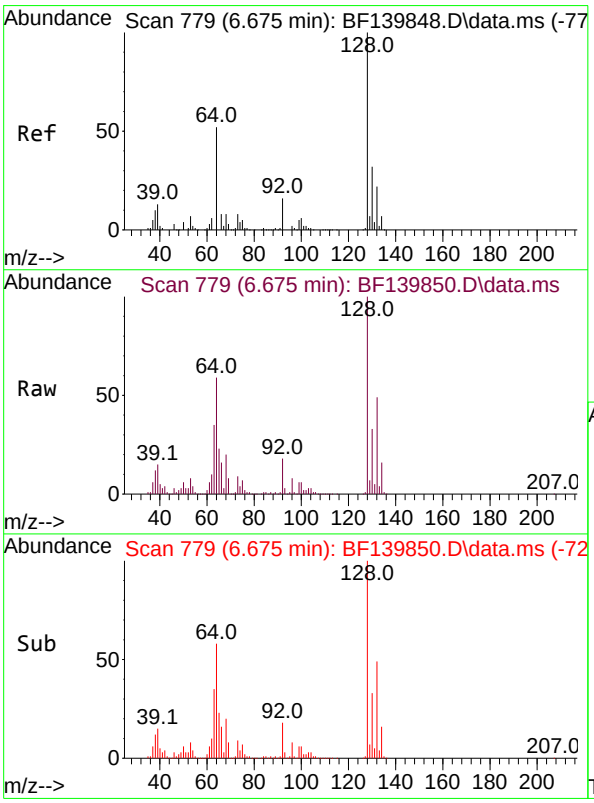
Ion	Ratio	Lower	Upper
99	100		
42	20.9	16.7	25.1
71	35.5	27.7	41.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

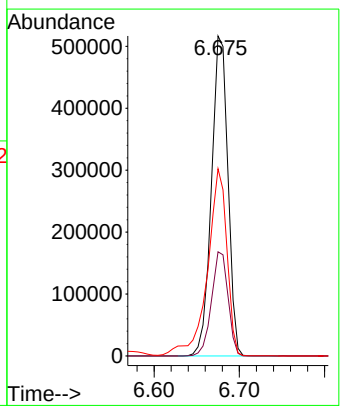
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

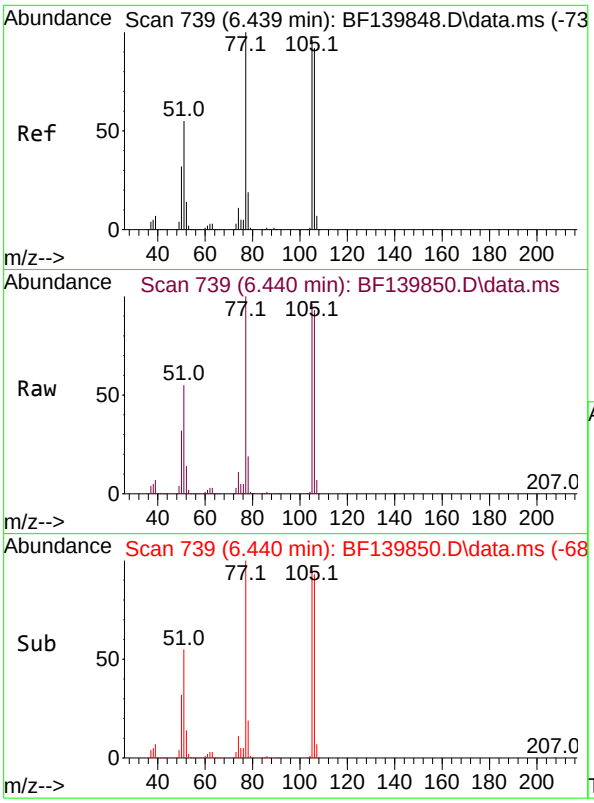


#8
2-Chlorophenol
Concen: 56.091 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:128 Resp: 693549

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.3	52.3
64	58.5	34.6	74.6

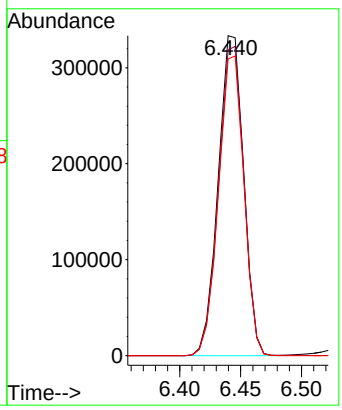




#9
Benzaldehyde
Concen: 54.980 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 77 Resp: 48451

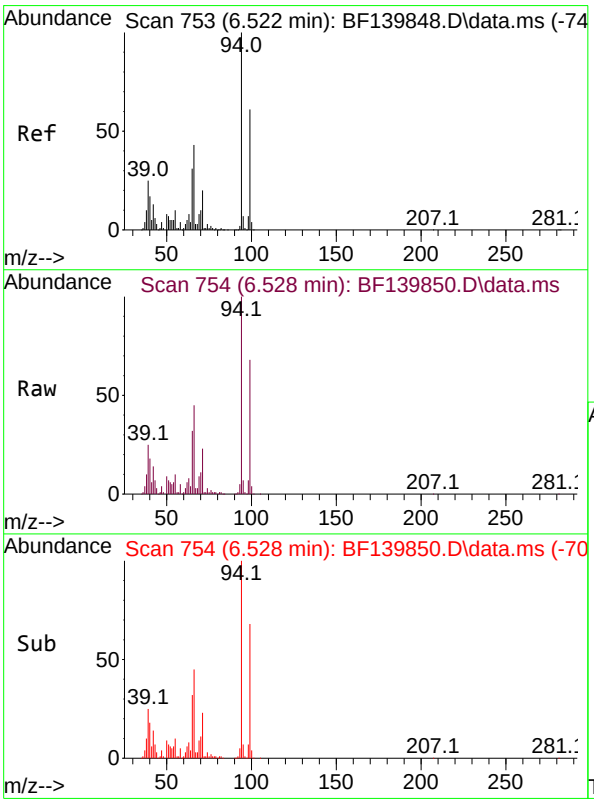
Ion	Ratio	Lower	Upper
77	100		
105	95.6	75.5	115.5
106	92.7	71.7	111.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

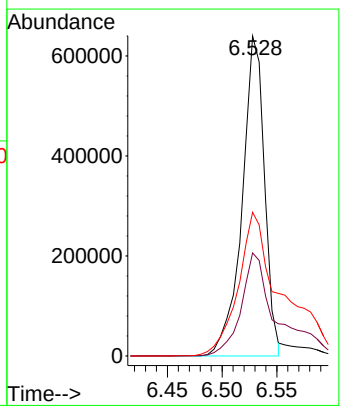
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

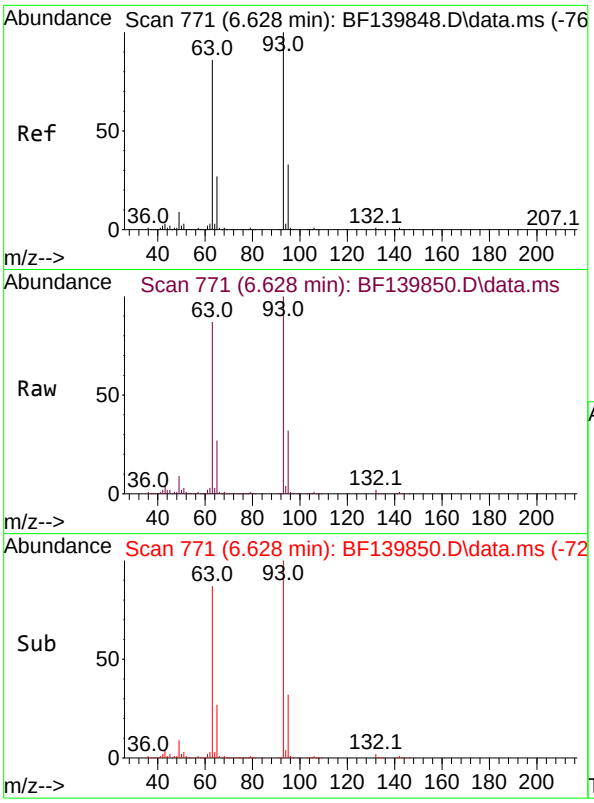


#10
Phenol
Concen: 55.317 ng m
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 94 Resp: 909456

Ion	Ratio	Lower	Upper
94	100		
65	32.2	11.1	51.1
66	44.9	22.7	62.7

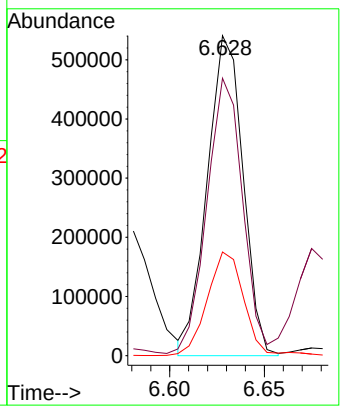




#11
bis(2-Chloroethyl)ether
Concen: 56.838 ng
RT: 6.628 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 93 Resp: 70949

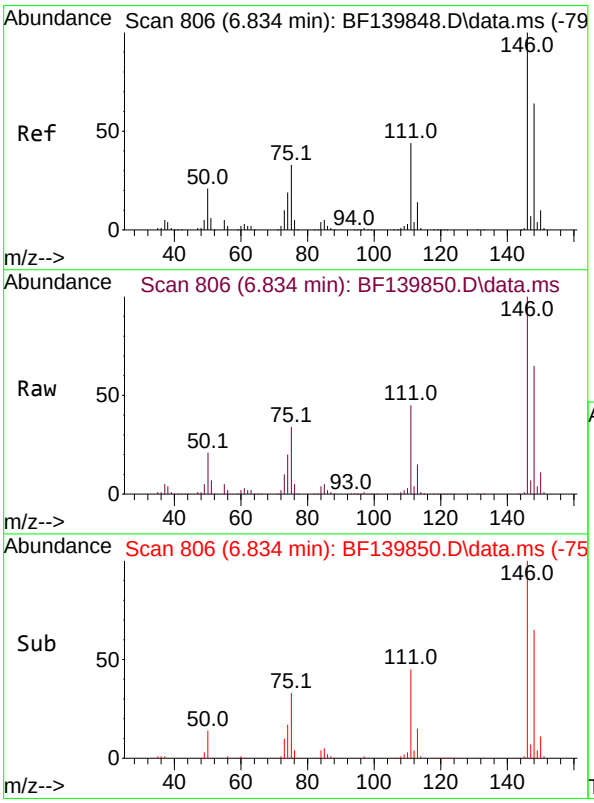
Ion	Ratio	Lower	Upper
93	100		
63	86.7	65.0	105.0
95	32.4	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

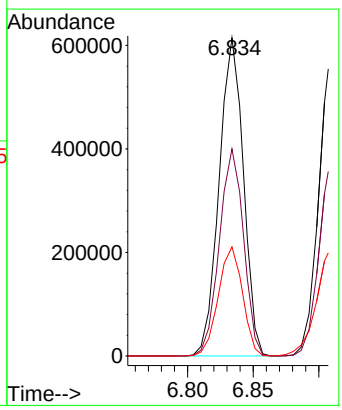
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

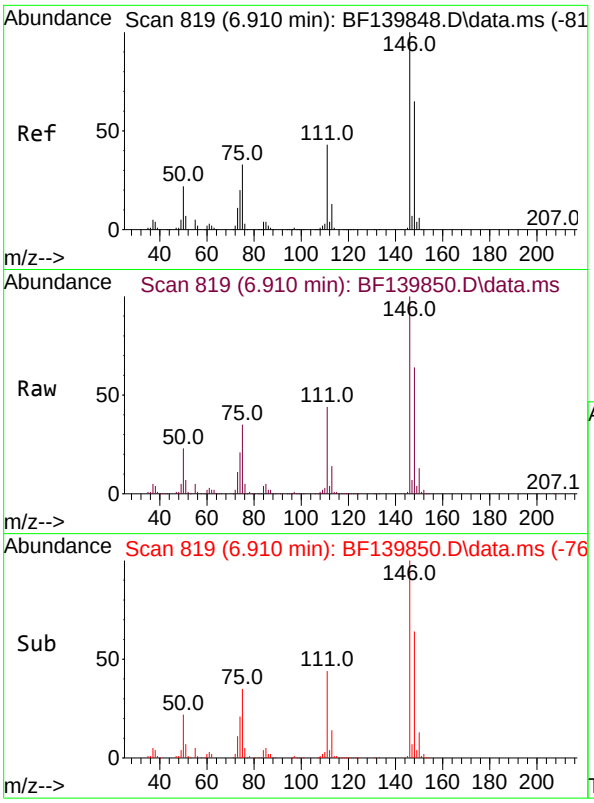


#12
1,3-Dichlorobenzene
Concen: 55.679 ng
RT: 6.834 min Scan# 806
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:146 Resp: 790296

Ion	Ratio	Lower	Upper
146	100		
148	65.1	51.0	76.4
75	34.3	26.4	39.6

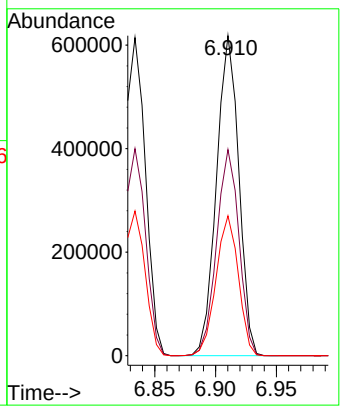




#13
1,4-Dichlorobenzene
Concen: 55.738 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:146 Resp: 79039

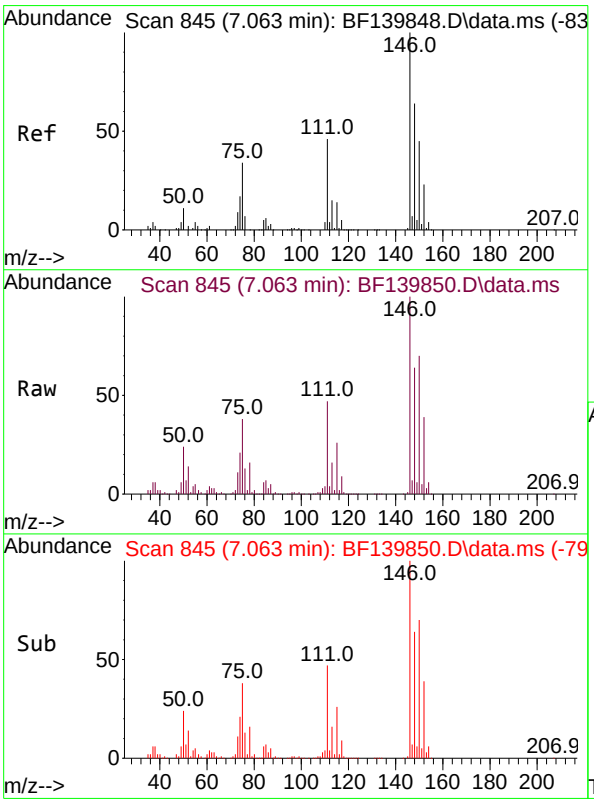
Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.8	77.8
111	43.7	34.6	51.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

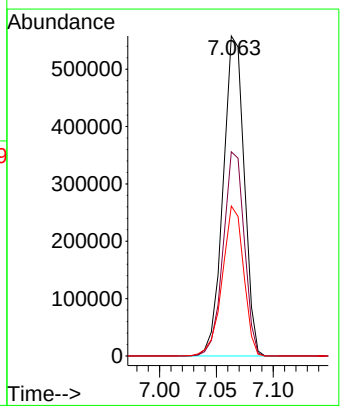
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

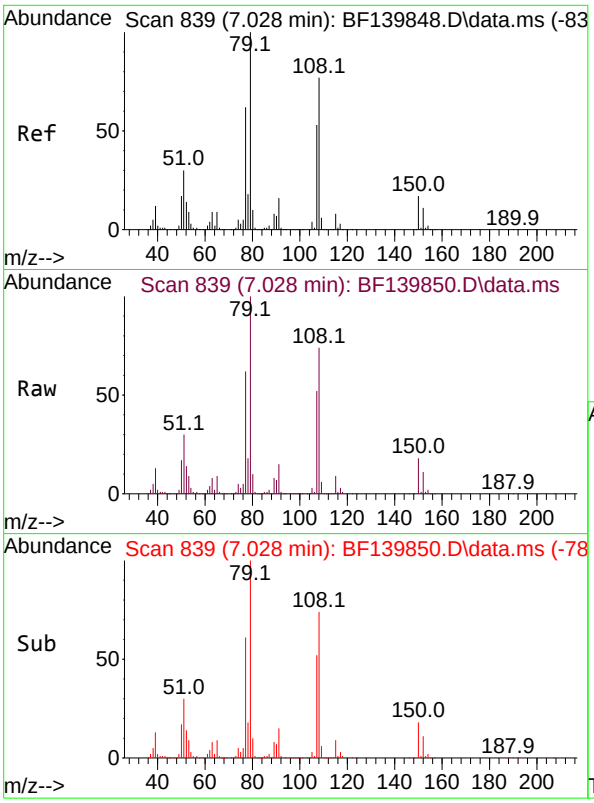


#14
1,2-Dichlorobenzene
Concen: 54.363 ng
RT: 7.063 min Scan# 845
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:146 Resp: 719470

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.4	77.2
111	46.8	36.7	55.1

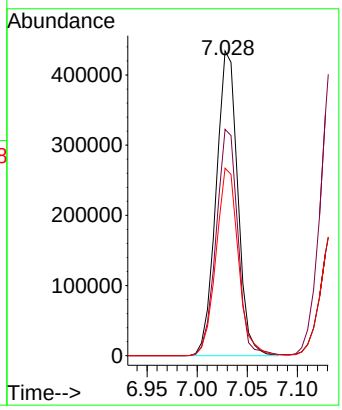




#15
Benzyl Alcohol
Concen: 56.651 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 79 Resp: 65097

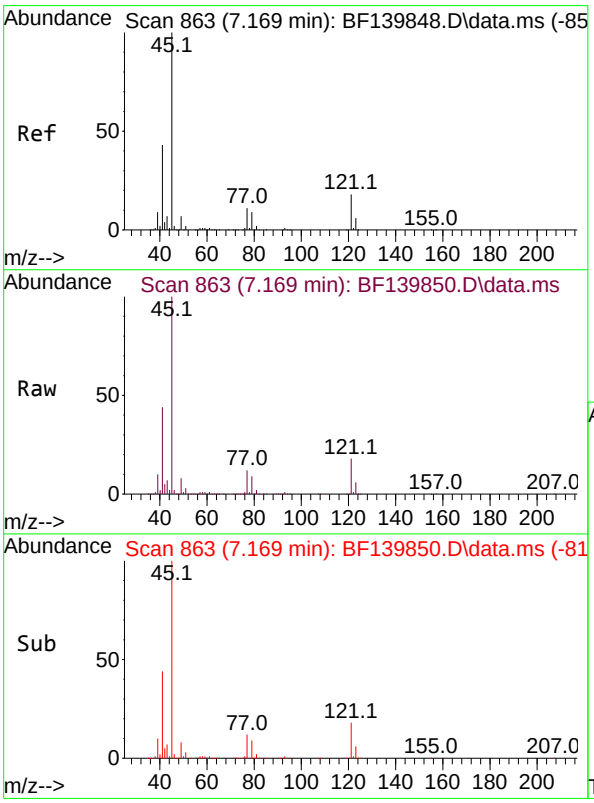
Ion	Ratio	Lower	Upper
79	100		
108	74.3	61.4	92.0
77	61.5	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

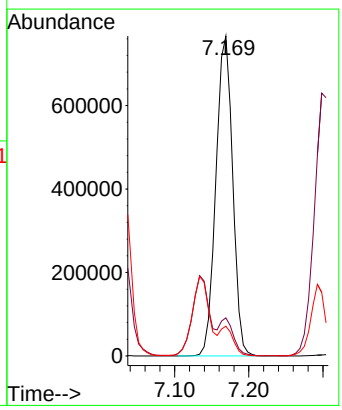
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

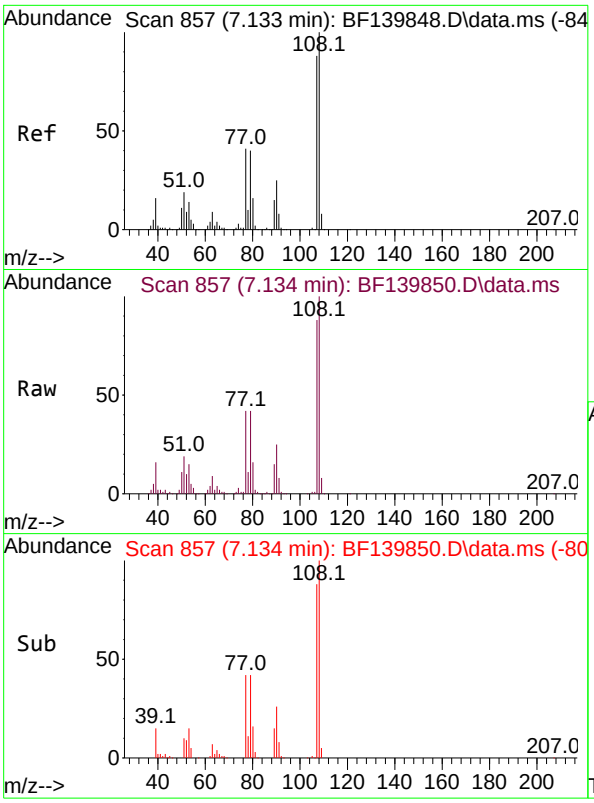


#16
2,2'-oxybis(1-Chloropropane)
Concen: 56.453 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 45 Resp: 1201584

Ion	Ratio	Lower	Upper
45	100		
77	11.9	0.0	31.5
79	9.3	0.0	29.1

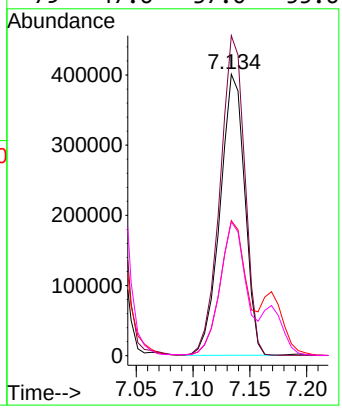




#17
2-Methylphenol
Concen: 57.276 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:107 Resp: 60388

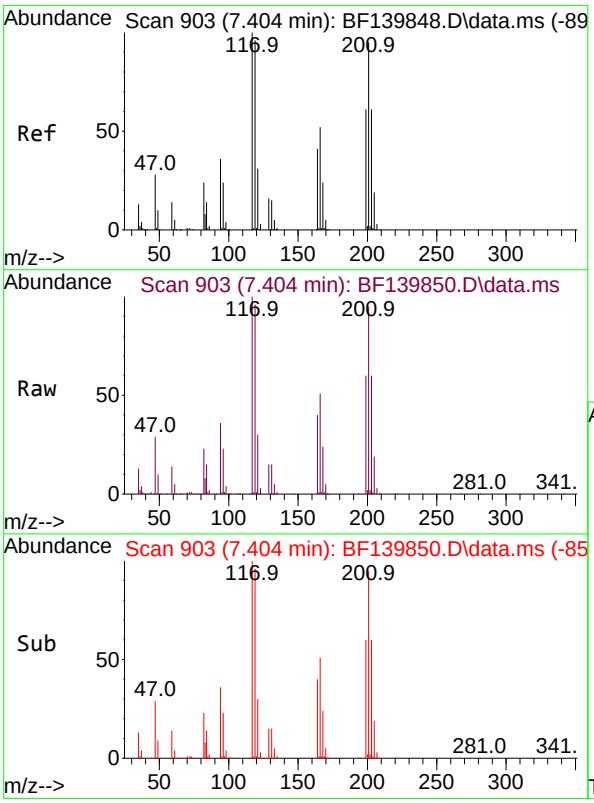
Ion	Ratio	Lower	Upper
107	100		
108	113.7	91.3	136.9
77	48.0	37.1	55.7
79	47.6	37.0	55.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

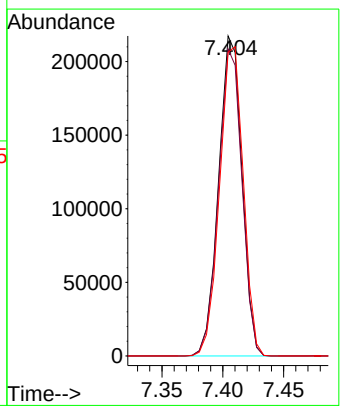
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

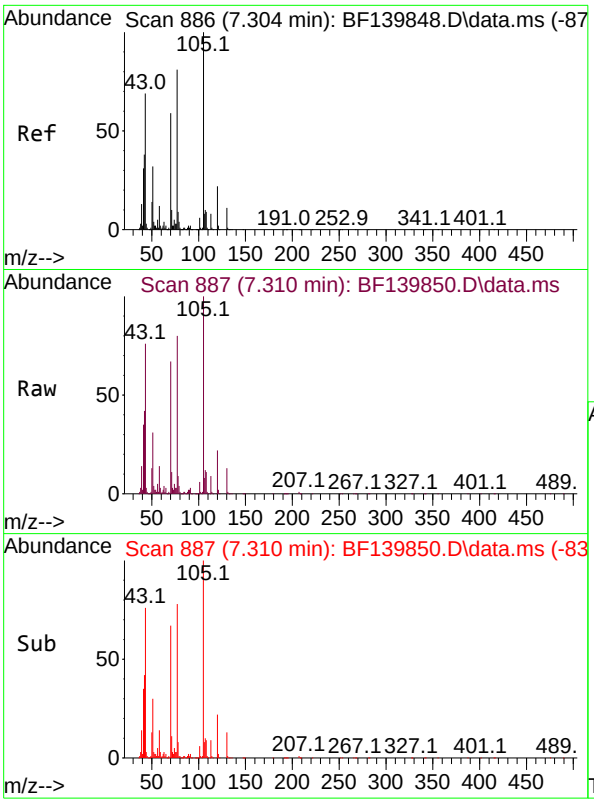


#18
Hexachloroethane
Concen: 57.398 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:117 Resp: 290250

Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.0	115.4
201	94.9	76.2	114.4

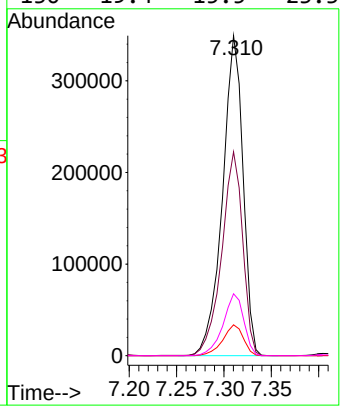




#19
n-Nitroso-di-n-propylamine
Concen: 55.418 ng
RT: 7.310 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 70 Resp: 52651

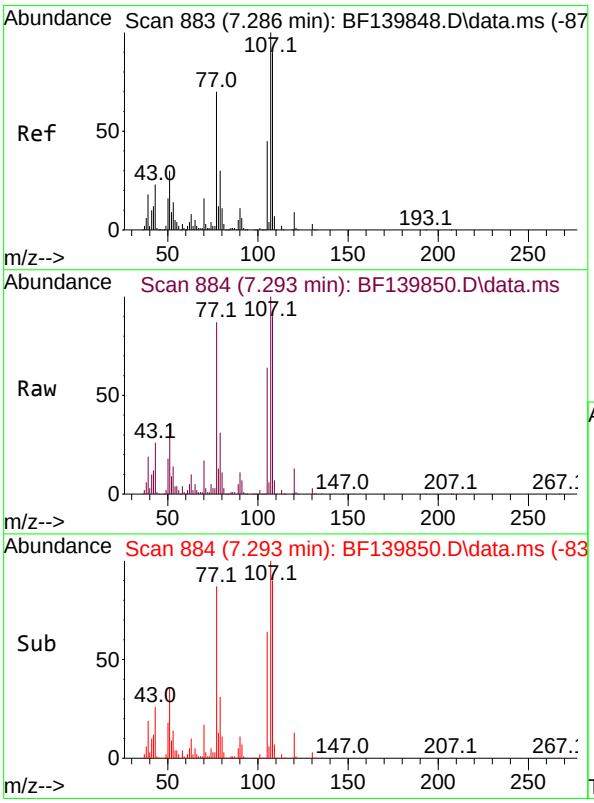
Ion	Ratio	Lower	Upper
70	100		
42	63.7	51.5	77.3
101	9.7	7.5	11.3
130	19.4	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

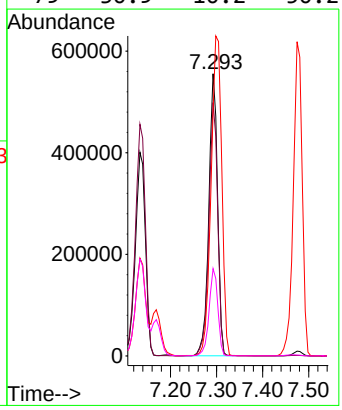
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

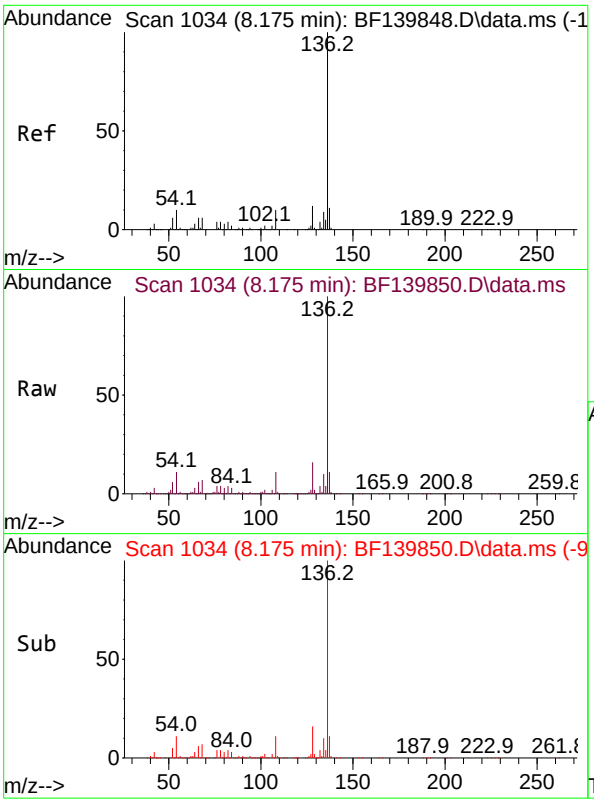


#20
3+4-Methylphenols
Concen: 54.764 ng
RT: 7.293 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:107 Resp: 738542

Ion	Ratio	Lower	Upper
107	100		
108	89.8	69.8	109.8
77	86.6	50.5	90.5
79	30.9	10.2	50.2

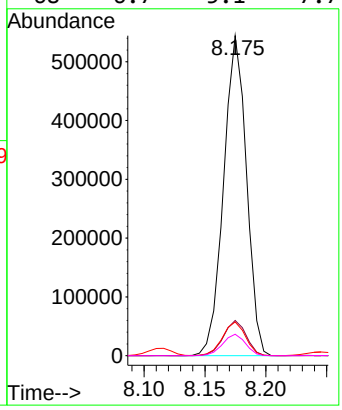




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:136 Resp: 71203

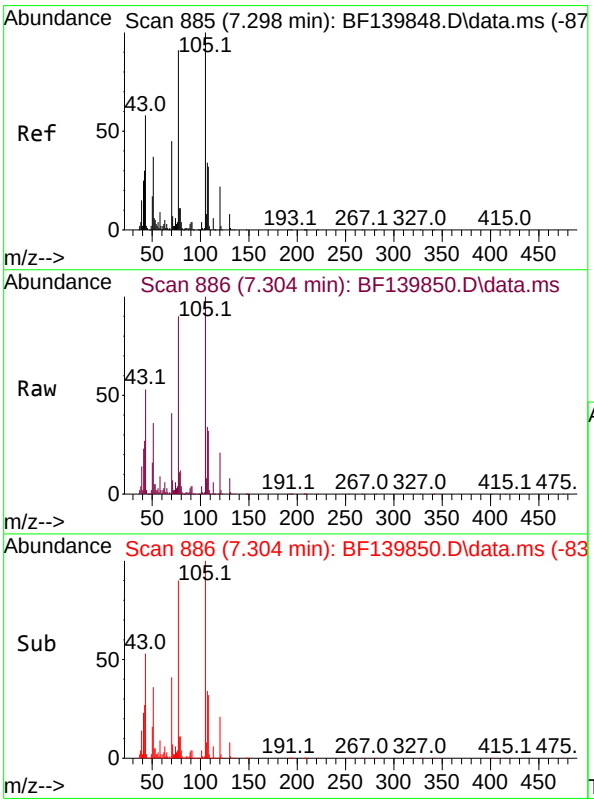
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	10.6	8.4	12.6
68	6.7	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

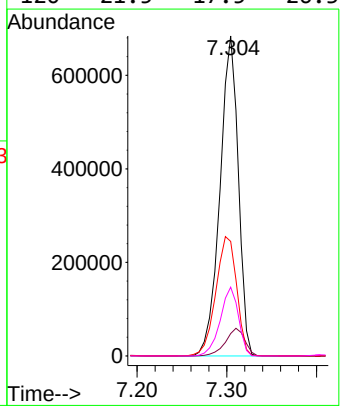
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

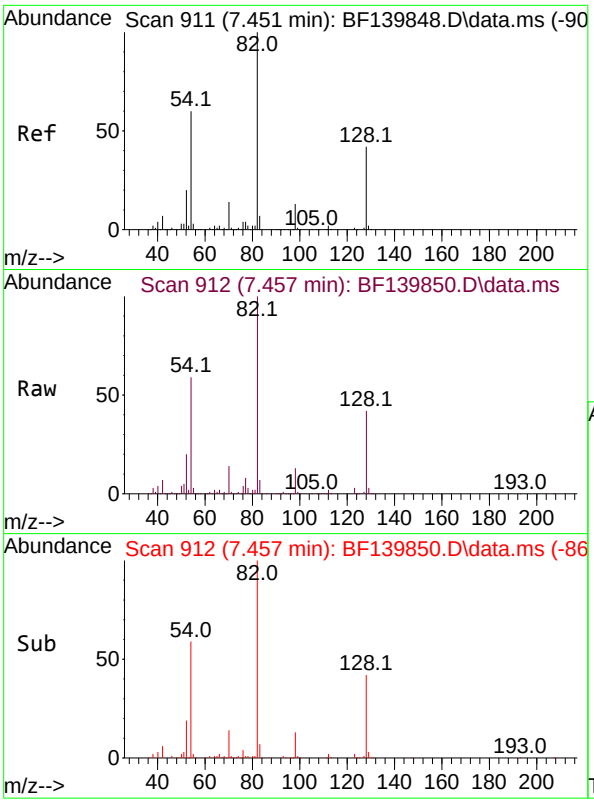


#22
Acetophenone
Concen: 55.618 ng
RT: 7.304 min Scan# 886
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:105 Resp: 969975

Ion	Ratio	Lower	Upper
105	100		
71	7.0	5.9	8.9
51	35.8	29.4	44.2
120	21.5	17.5	26.3





#23
Nitrobenzene-d5
Concen: 118.624 ng
RT: 7.457 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

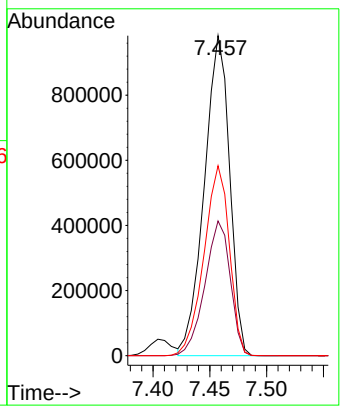
Tgt Ion: 82 Resp: 152397

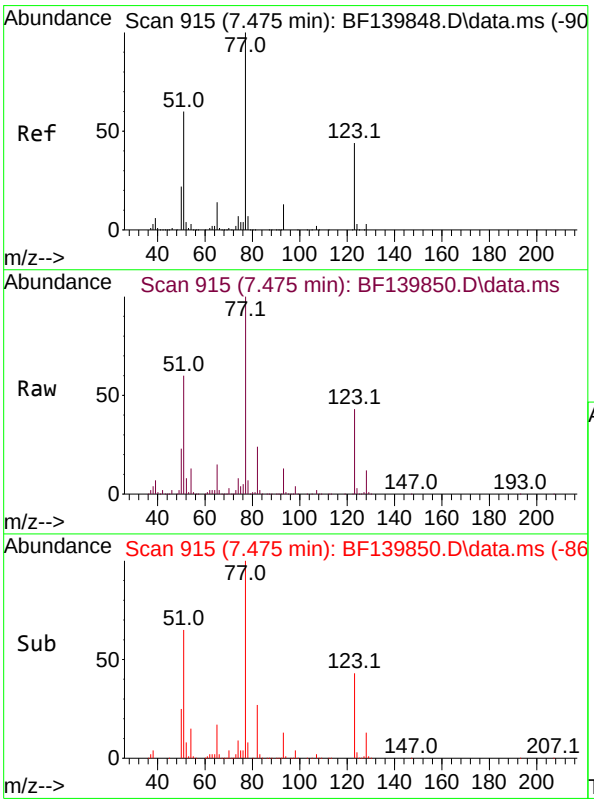
Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.4	50.0
54	59.3	47.8	71.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

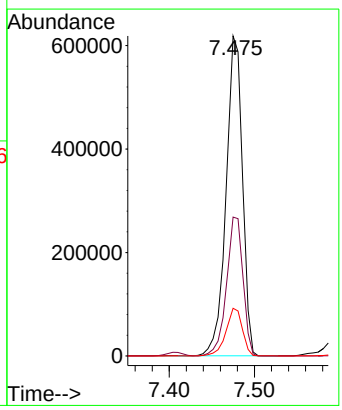


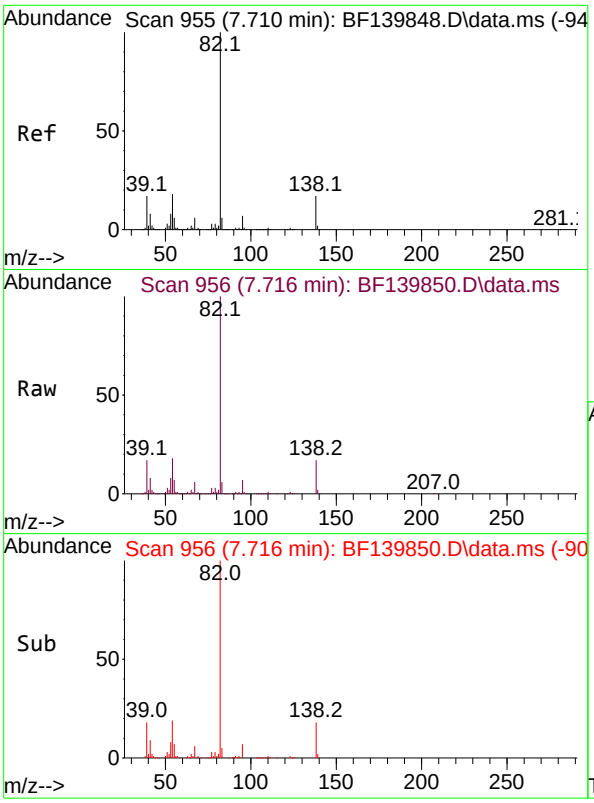


#24
Nitrobenzene
Concen: 58.785 ng
RT: 7.475 min Scan# 915
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 77 Resp: 828015

Ion	Ratio	Lower	Upper
77	100		
123	43.4	35.7	53.5
65	14.9	11.5	17.3

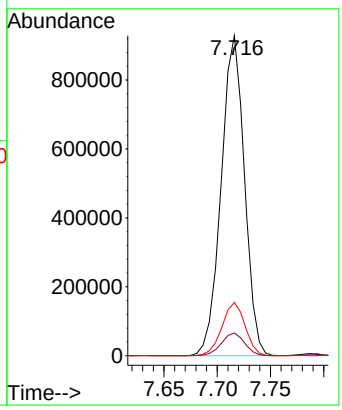




#25
Isophorone
Concen: 57.816 ng
RT: 7.716 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 82 Resp: 140978

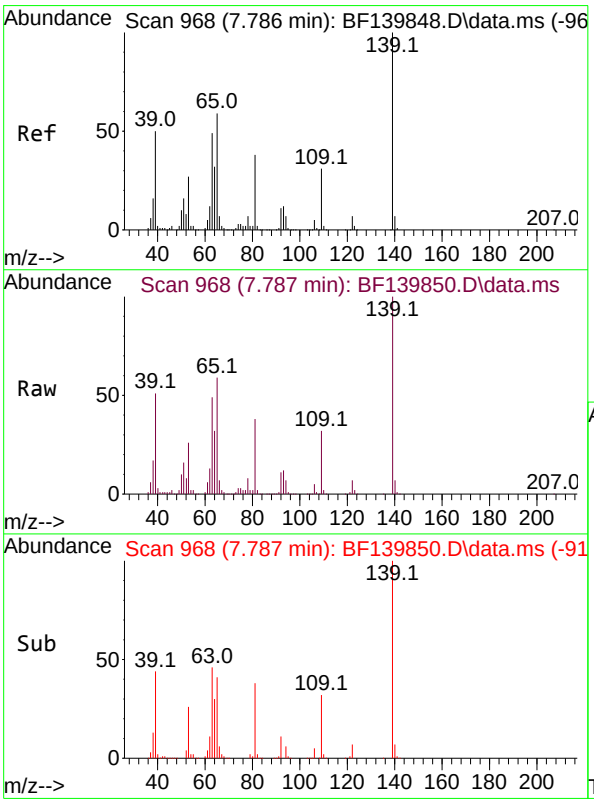
Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.5	8.3
138	16.7	13.2	19.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

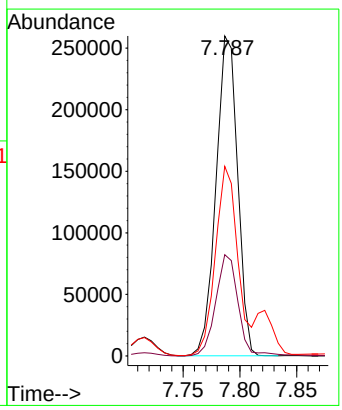
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

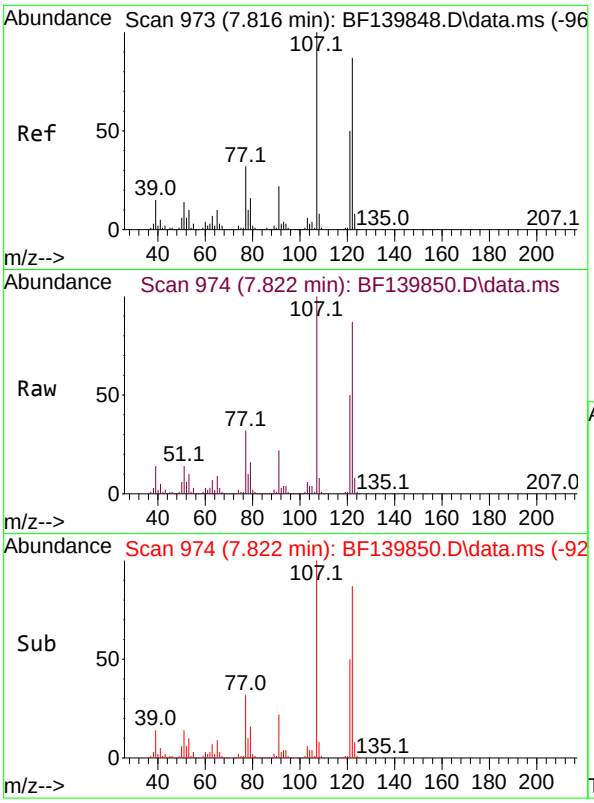


#26
2-Nitrophenol
Concen: 64.793 ng
RT: 7.787 min Scan# 968
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:139 Resp: 344300

Ion	Ratio	Lower	Upper
139	100		
109	31.6	25.1	37.7
65	59.3	47.5	71.3

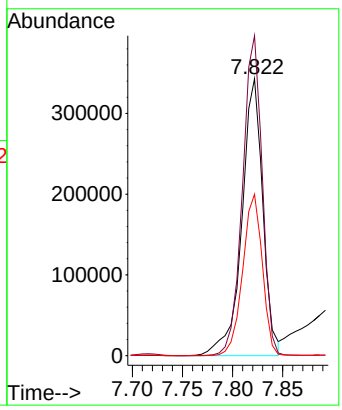




#27
2,4-Dimethylphenol
Concen: 56.468 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:122 Resp: 50033

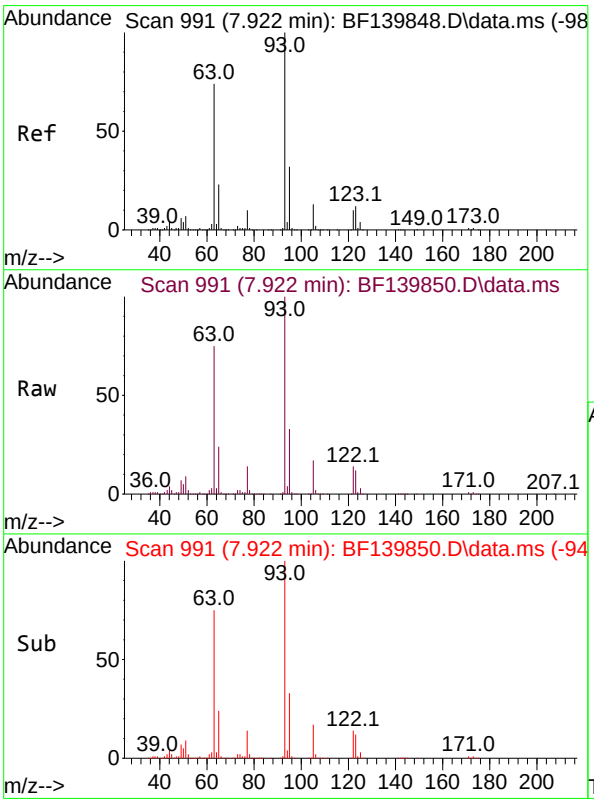
Ion	Ratio	Lower	Upper
122	100		
107	115.6	91.9	137.9
121	58.3	46.2	69.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

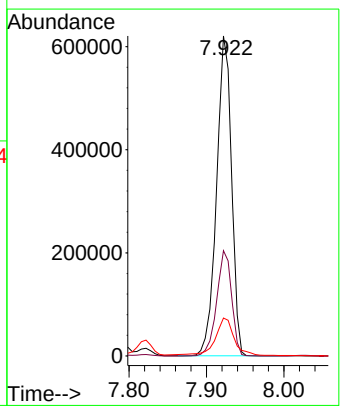
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

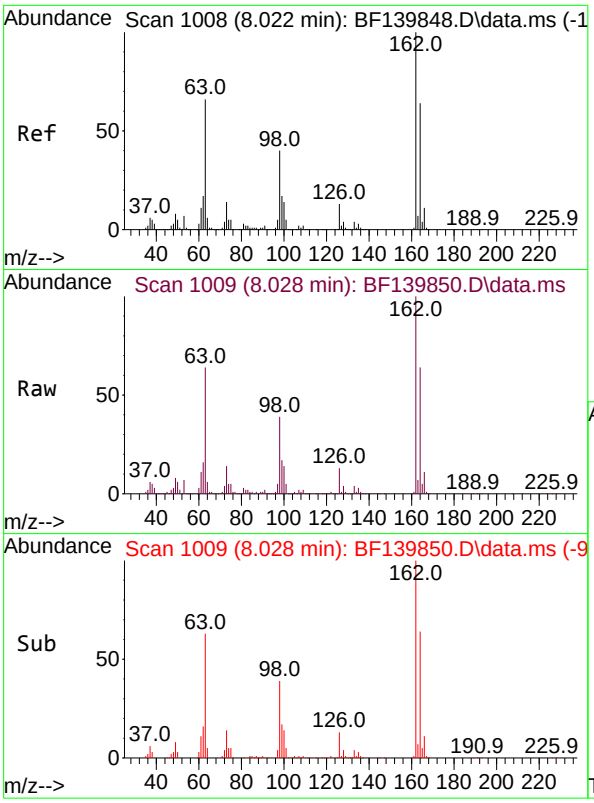


#28
bis(2-Chloroethoxy)methane
Concen: 56.369 ng
RT: 7.922 min Scan# 991
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 93 Resp: 832755

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.0	39.0
123	11.8	9.8	14.8





#29
2,4-Dichlorophenol
Concen: 57.952 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

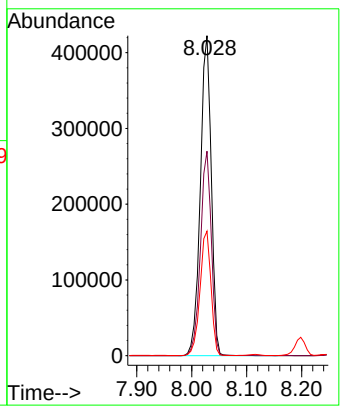
Tgt Ion:162 Resp: 58487

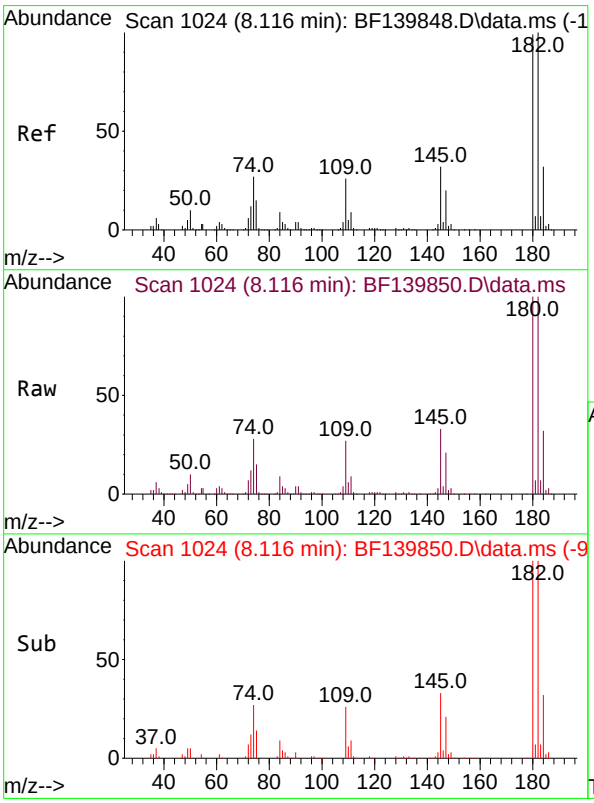
Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.9	83.9
98	38.9	19.9	59.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

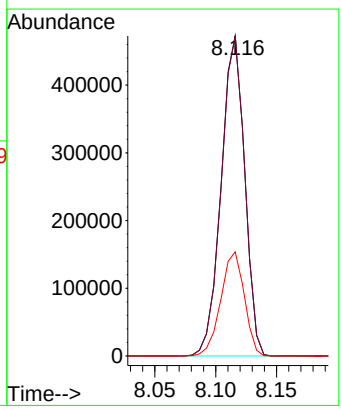


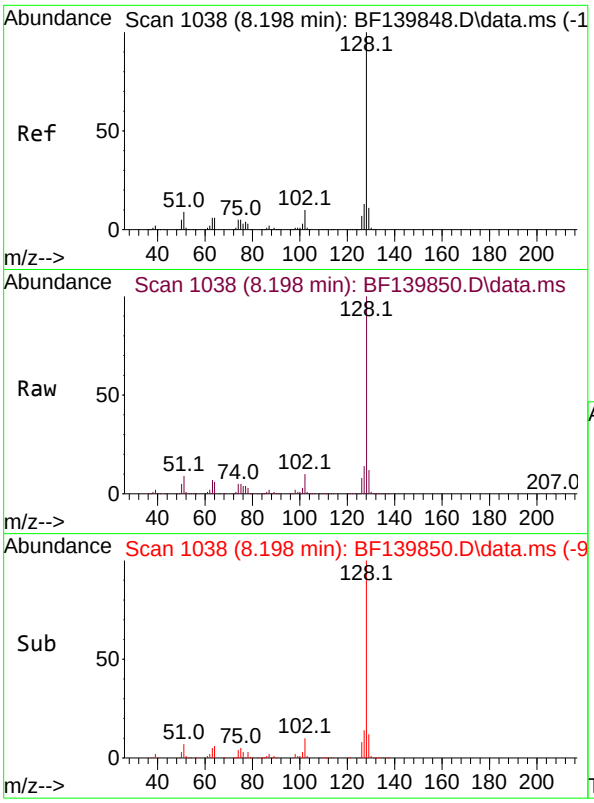


#30
1,2,4-Trichlorobenzene
Concen: 56.947 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:180 Resp: 635946

Ion	Ratio	Lower	Upper
180	100		
182	99.7	80.5	120.7
145	32.6	25.4	38.0





#31
Naphthalene
Concen: 54.907 ng
RT: 8.198 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

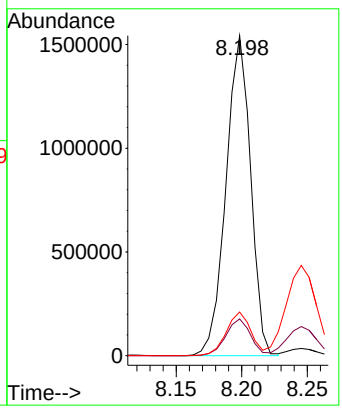
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

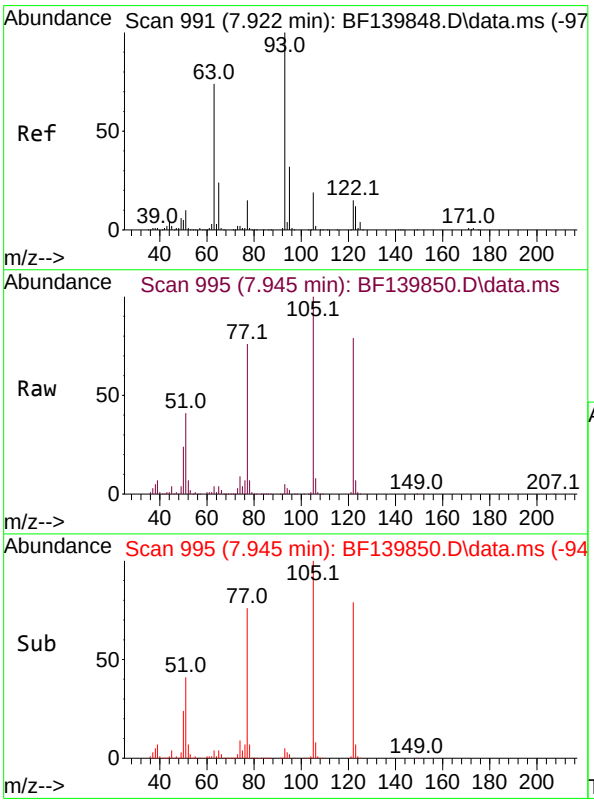
Tgt Ion:128 Resp: 201633(

Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.9	13.3
127	13.7	10.6	16.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

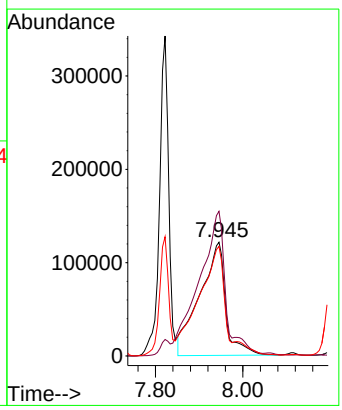


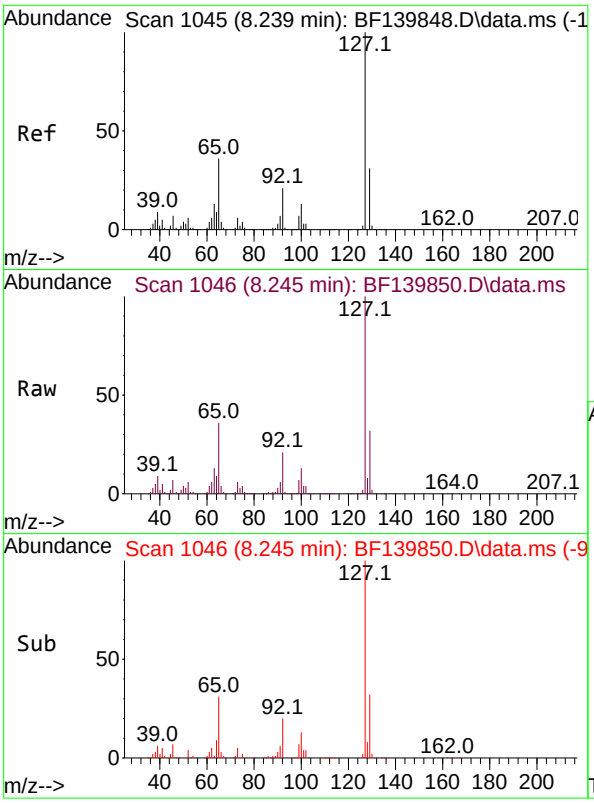


#32
Benzoic acid
Concen: 64.980 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.023 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:122 Resp: 502169

Ion	Ratio	Lower	Upper
122	100		
105	127.1	107.6	147.6
77	96.2	80.2	120.2

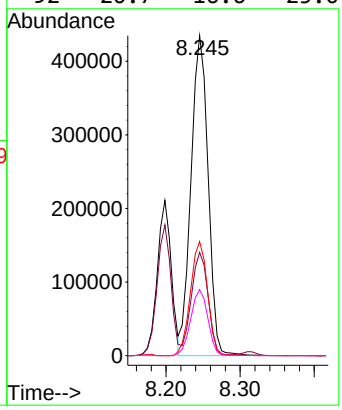




#33
4-Chloroaniline
Concen: 55.548 ng
RT: 8.245 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:127 Resp: 69556

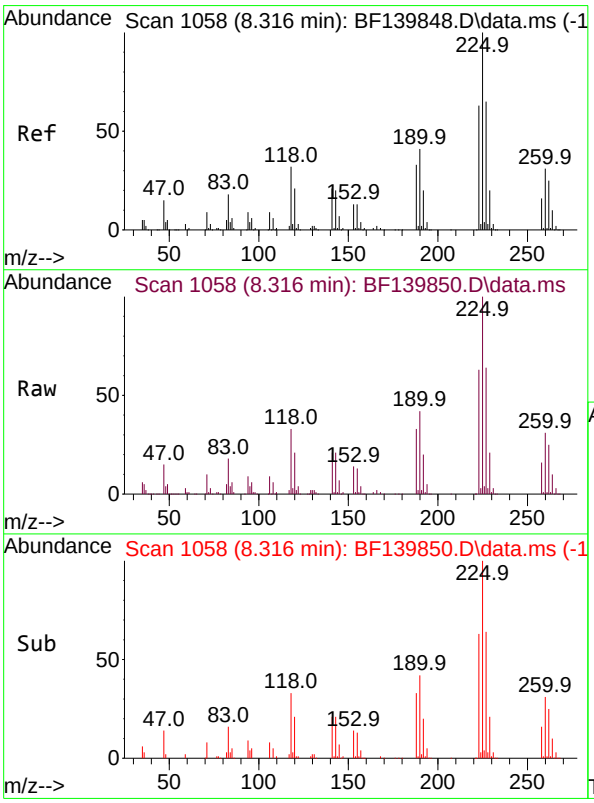
Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.4	38.2
65	35.7	28.4	42.6
92	20.7	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

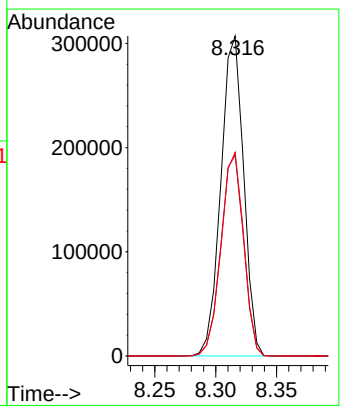
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

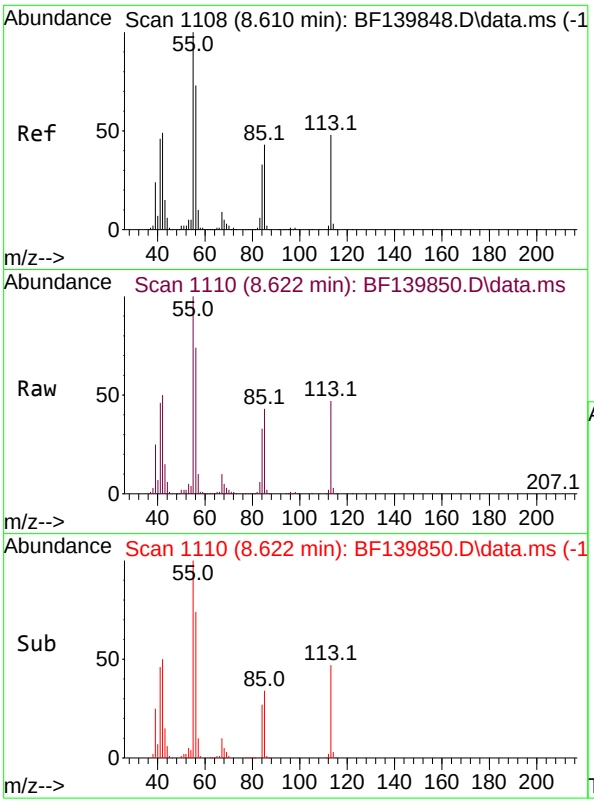


#34
Hexachlorobutadiene
Concen: 56.934 ng
RT: 8.316 min Scan# 1058
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:225 Resp: 399483

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.6	76.0
227	63.6	51.8	77.8

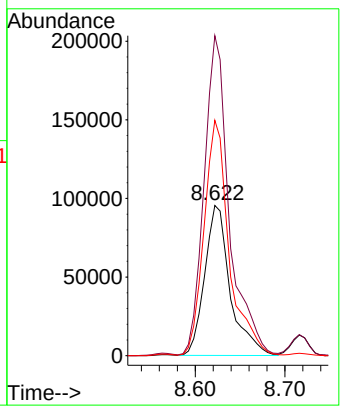




#35
Caprolactam
Concen: 58.880 ng
RT: 8.622 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:113 Resp: 18894

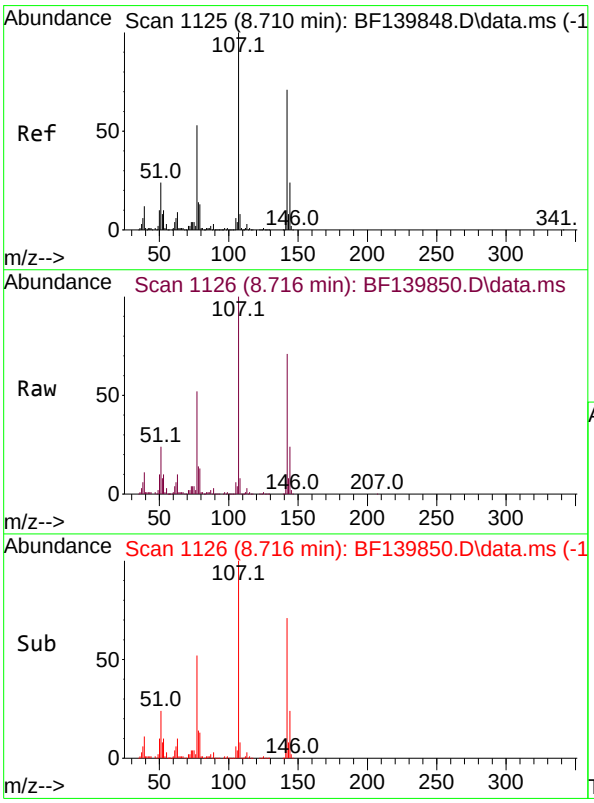
Ion	Ratio	Lower	Upper
113	100		
55	213.0	189.2	229.2
56	156.6	132.5	172.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

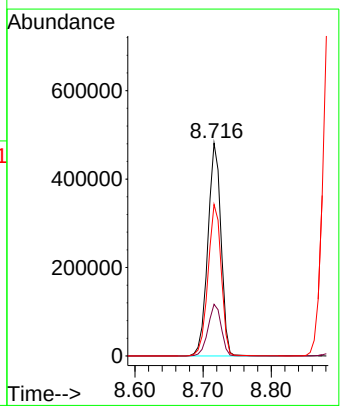
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

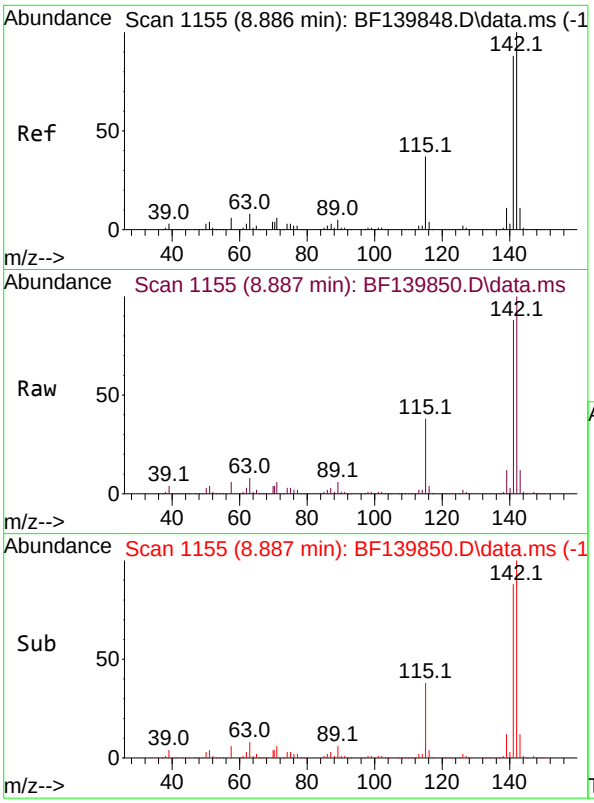


#36
4-Chloro-3-methylphenol
Concen: 57.872 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:107 Resp: 646732

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.1	28.7
142	71.2	57.2	85.8





#37
2-Methylnaphthalene
Concen: 55.401 ng
RT: 8.887 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

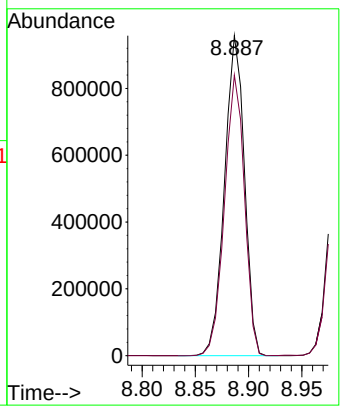
Tgt Ion:142 Resp: 124597

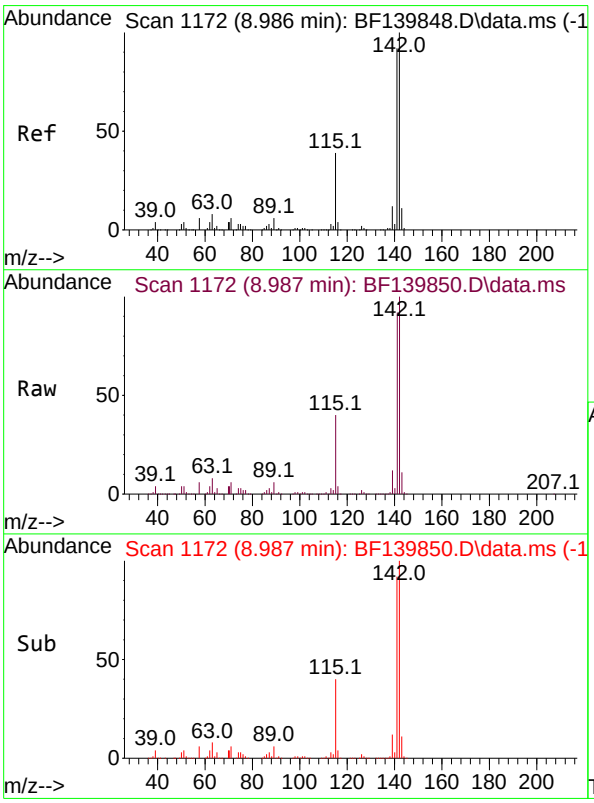
Ion	Ratio	Lower	Upper
142	100		
141	87.7	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

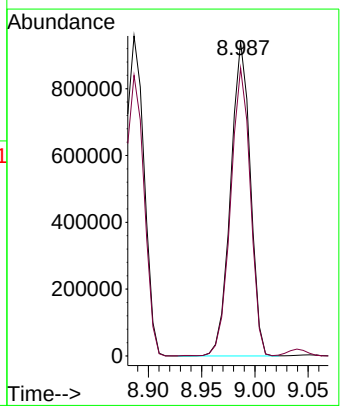


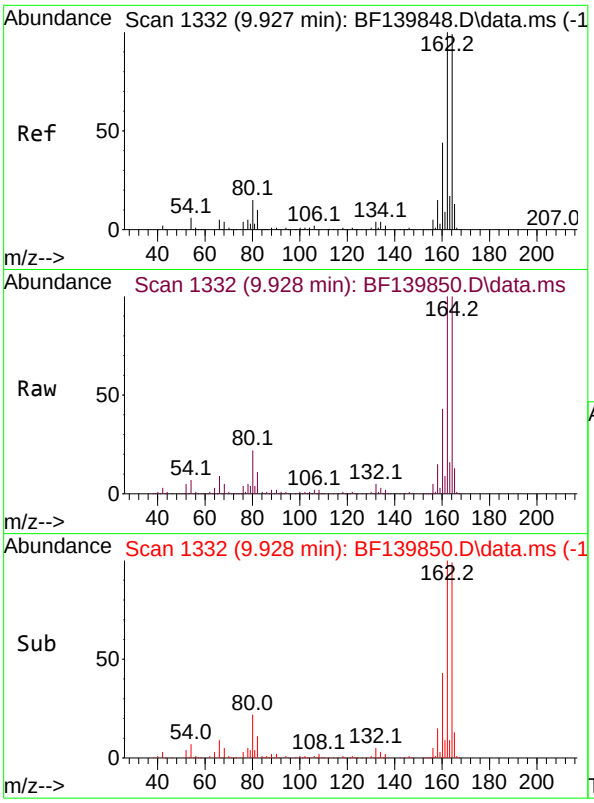


#38
1-Methylnaphthalene
Concen: 54.926 ng
RT: 8.987 min Scan# 1172
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:142 Resp: 1211981

Ion	Ratio	Lower	Upper
142	100		
141	91.6	73.5	110.3





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

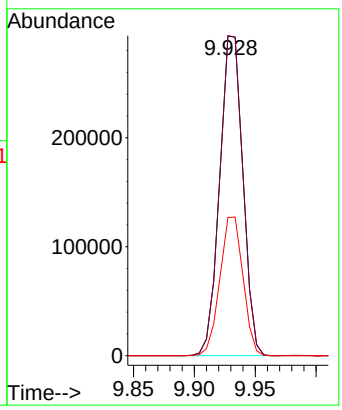
Tgt Ion:164 Resp: 38929

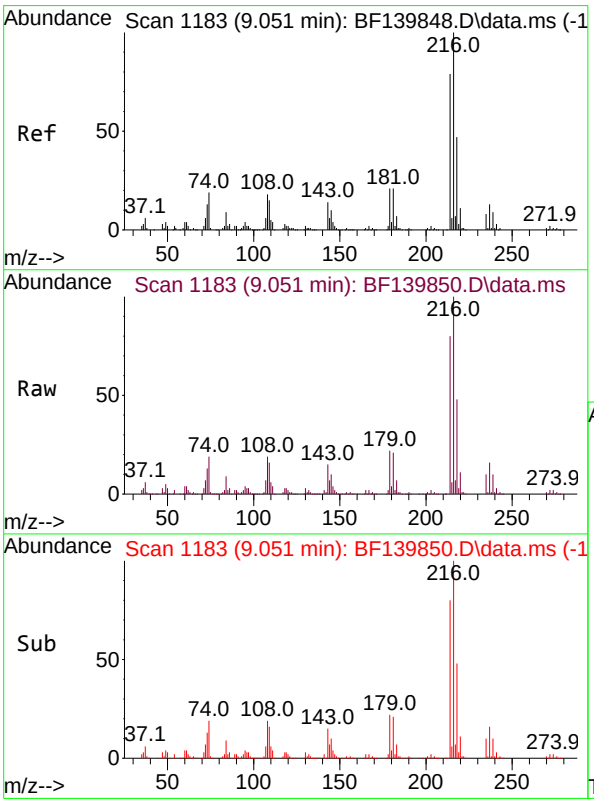
Ion	Ratio	Lower	Upper
164	100		
162	100.1	81.0	121.4
160	43.3	35.4	53.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

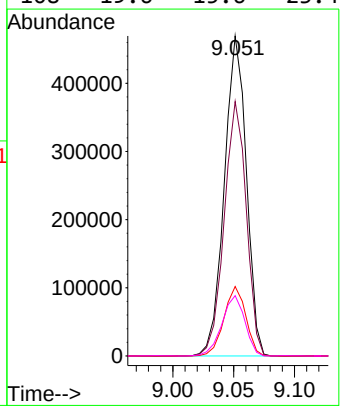


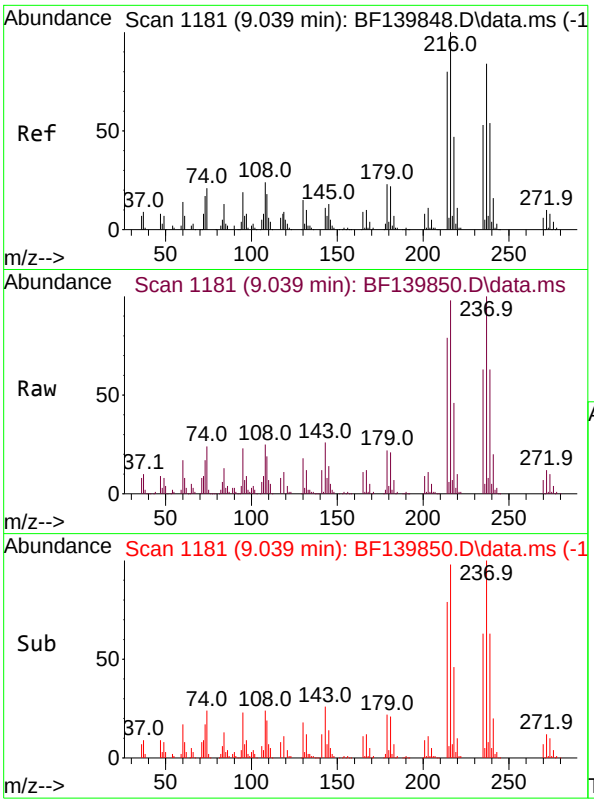


#40
1,2,4,5-Tetrachlorobenzene
Concen: 56.315 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:216 Resp: 591461

Ion	Ratio	Lower	Upper
216	100		
214	79.6	63.4	95.0
179	21.5	17.2	25.8
108	19.6	15.6	23.4

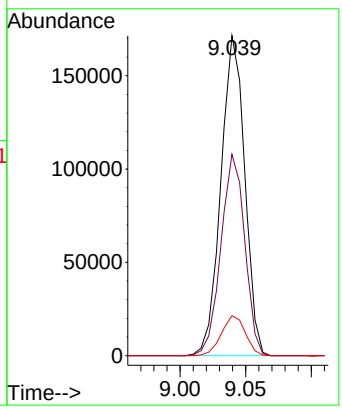




#41
Hexachlorocyclopentadiene
Concen: 59.262 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:237 Resp: 21656

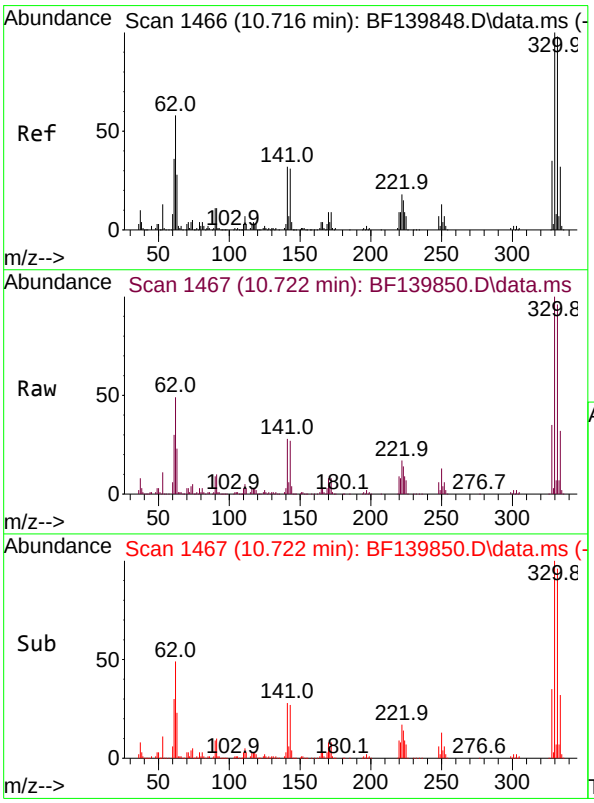
Ion	Ratio	Lower	Upper
237	100		
235	62.9	42.9	82.9
272	12.5	0.0	32.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

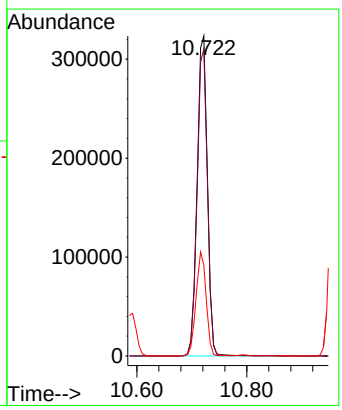
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

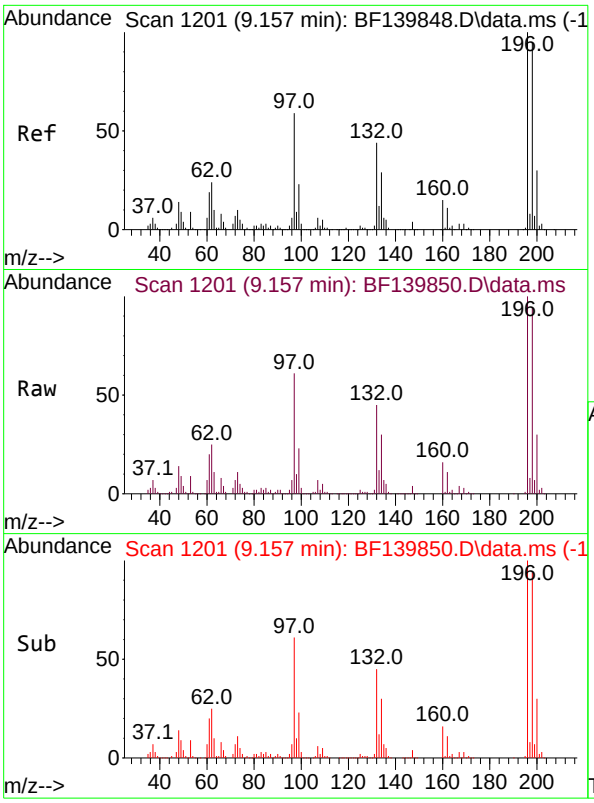


#42
2,4,6-Tribromophenol
Concen: 115.586 ng
RT: 10.722 min Scan# 1467
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:330 Resp: 420891

Ion	Ratio	Lower	Upper
330	100		
332	95.9	78.1	117.1
141	32.0	26.6	39.8

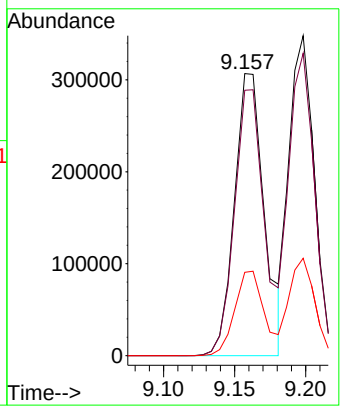




#43
2,4,6-Trichlorophenol
Concen: 60.209 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:196 Resp: 44770

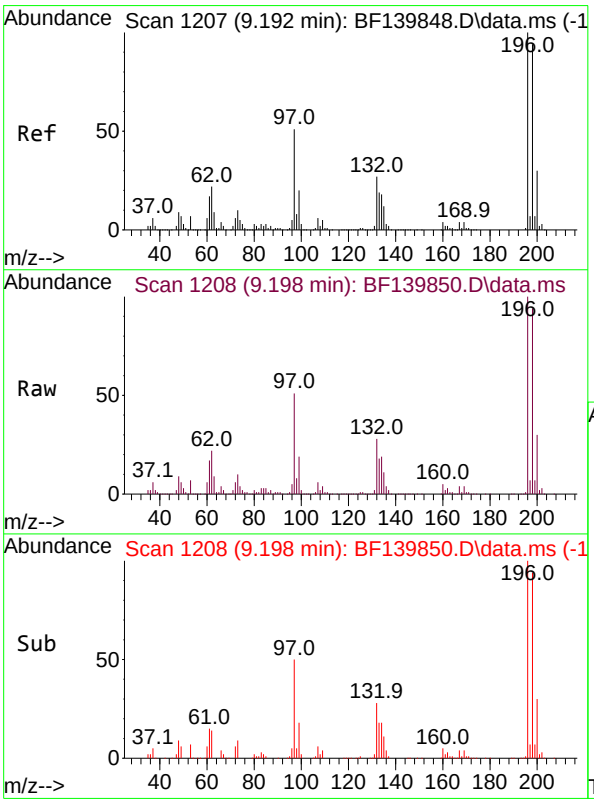
Ion	Ratio	Lower	Upper
196	100		
198	94.1	76.2	114.2
200	29.6	24.0	36.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

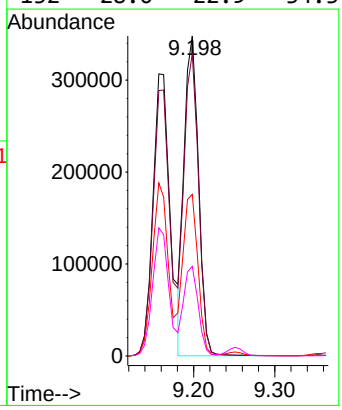
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

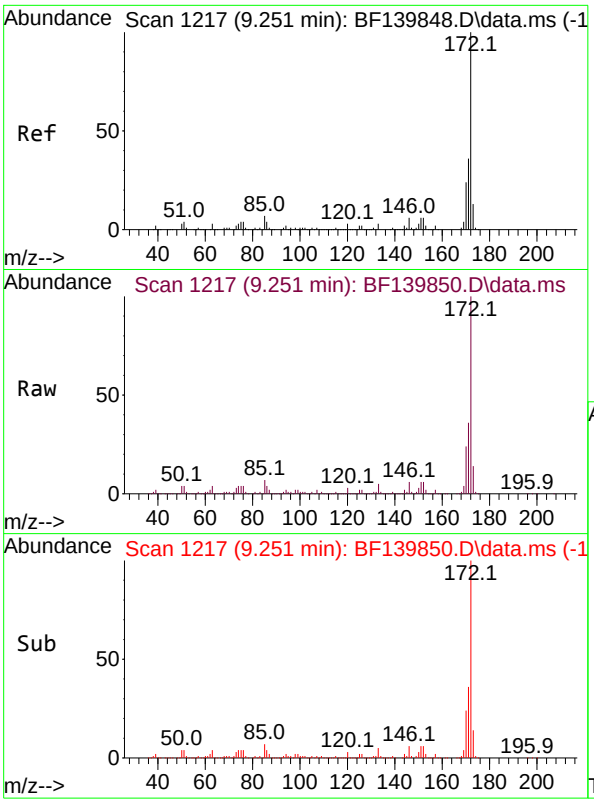


#44
2,4,5-Trichlorophenol
Concen: 56.191 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:196 Resp: 431080

Ion	Ratio	Lower	Upper
196	100		
198	94.5	75.8	113.6
97	50.5	41.8	62.6
132	28.0	22.9	34.3

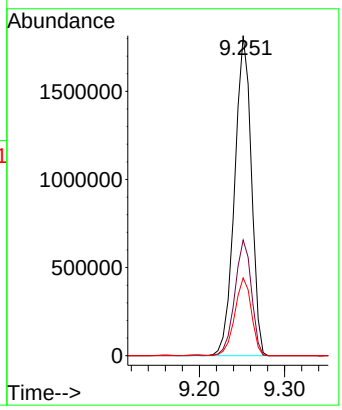




#45
2-Fluorobiphenyl
Concen: 105.106 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:172 Resp: 247582

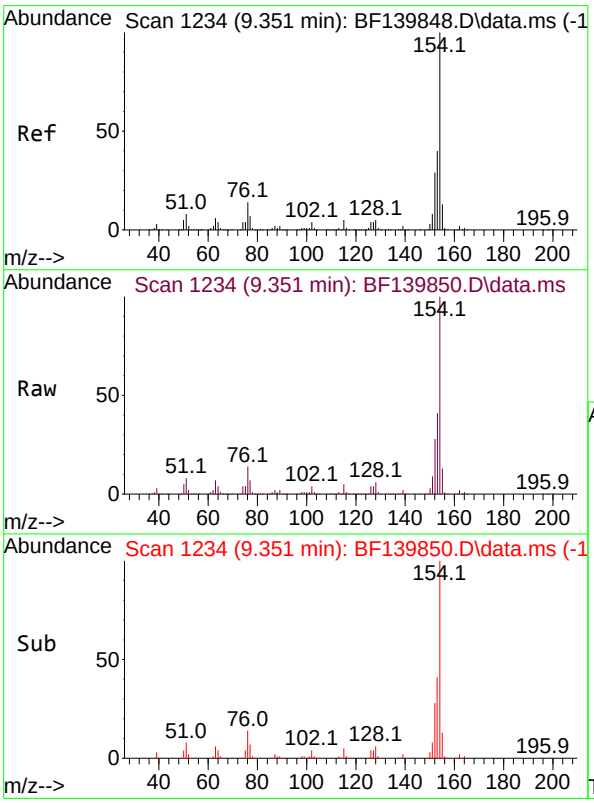
Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.3	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

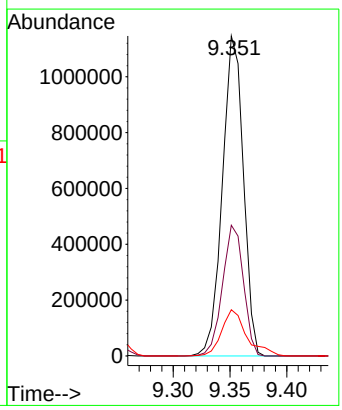
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

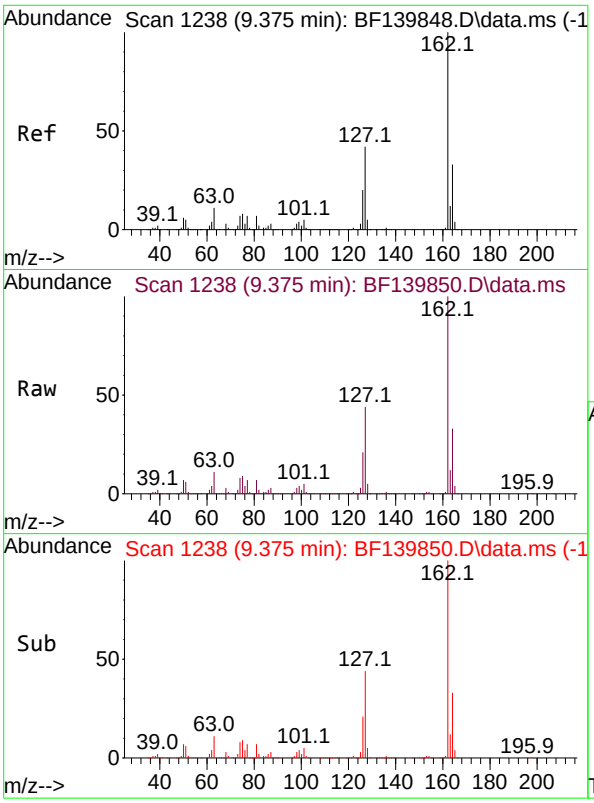


#46
1,1'-Biphenyl
Concen: 54.396 ng
RT: 9.351 min Scan# 1234
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:154 Resp: 1474193

Ion	Ratio	Lower	Upper
154	100		
153	40.9	20.3	60.3
76	14.5	0.0	33.9

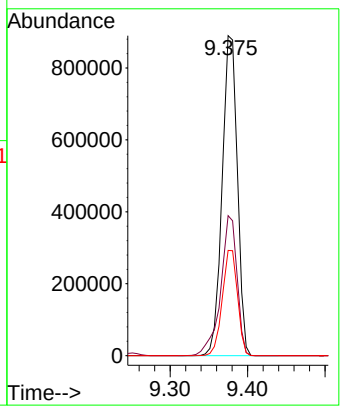




#47
2-Chloronaphthalene
Concen: 55.657 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:162 Resp: 121485

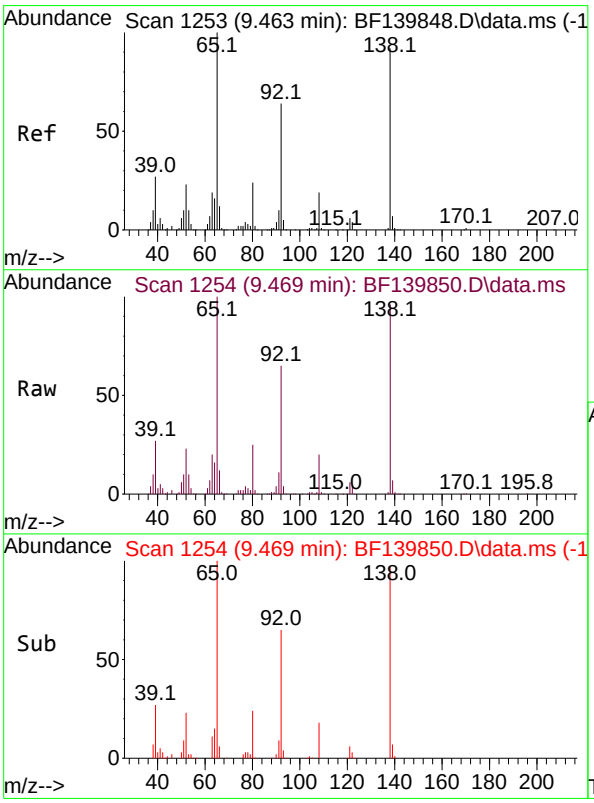
Ion	Ratio	Lower	Upper
162	100		
127	43.7	33.8	50.6
164	32.9	26.6	39.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

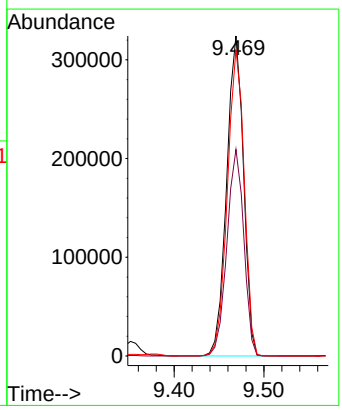
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

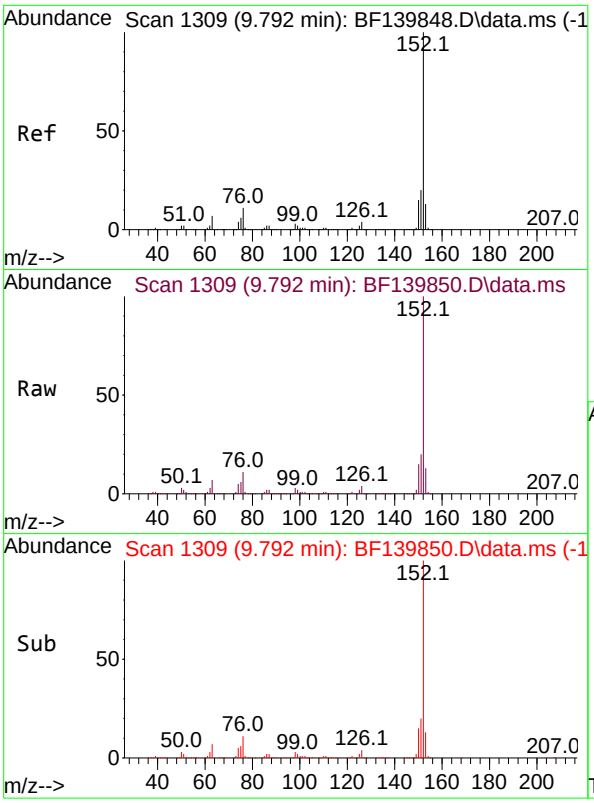


#48
2-Nitroaniline
Concen: 63.375 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 65 Resp: 423080

Ion	Ratio	Lower	Upper
65	100		
92	64.6	50.9	76.3
138	95.8	73.4	110.0

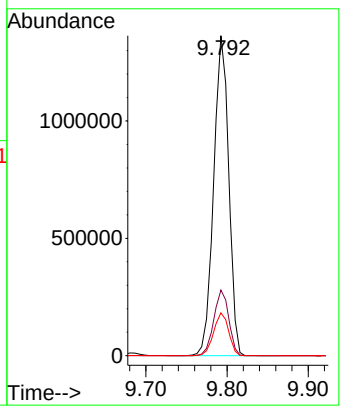




#49
Acenaphthylene
Concen: 55.718 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:152 Resp: 175824

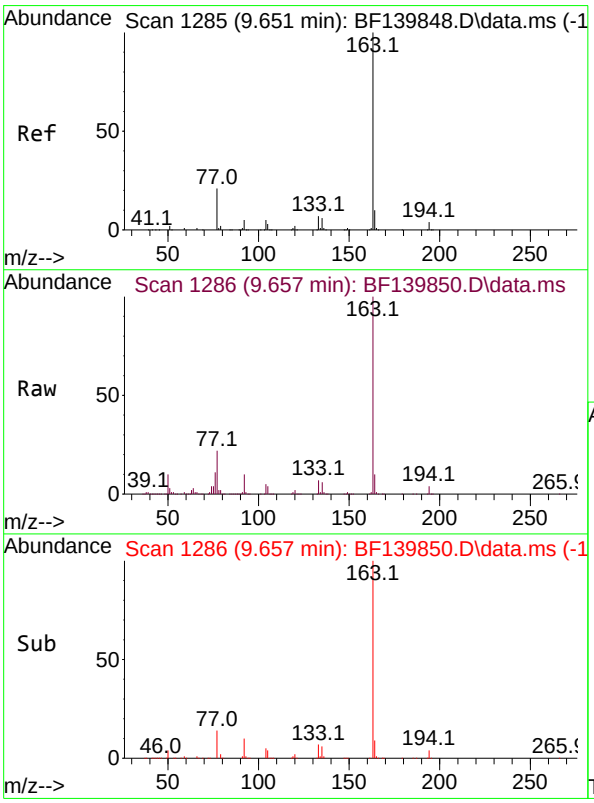
Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.9	23.9
153	13.4	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

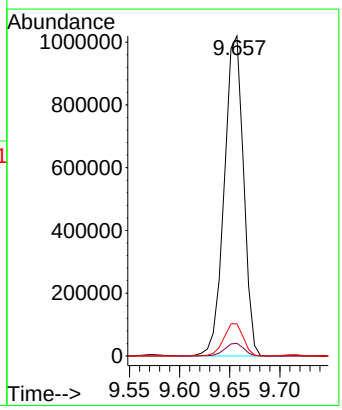
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

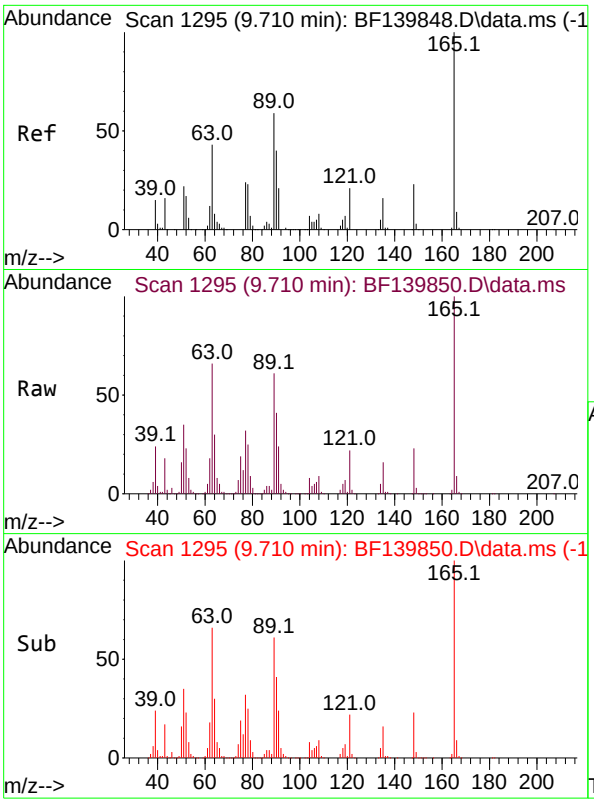


#50
Dimethylphthalate
Concen: 56.037 ng
RT: 9.657 min Scan# 1286
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:163 Resp: 1358812

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.4	5.0
164	10.1	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 60.963 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

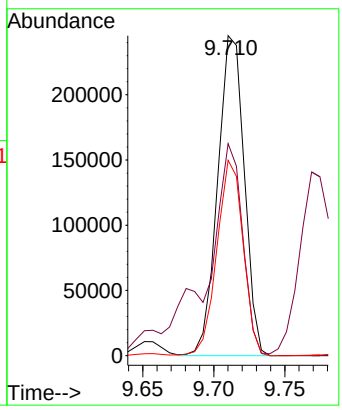
Tgt Ion:165 Resp: 32007

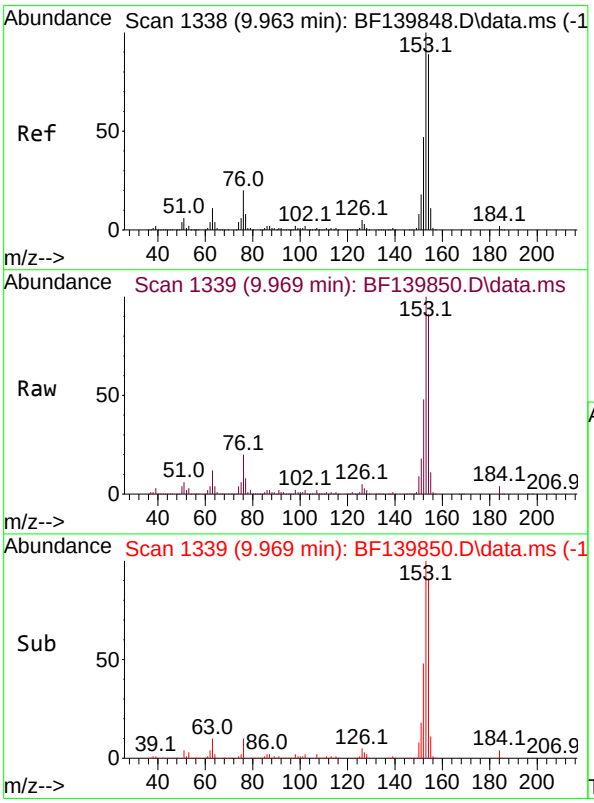
Ion	Ratio	Lower	Upper
165	100		
63	66.3	50.6	75.8
89	61.0	47.5	71.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

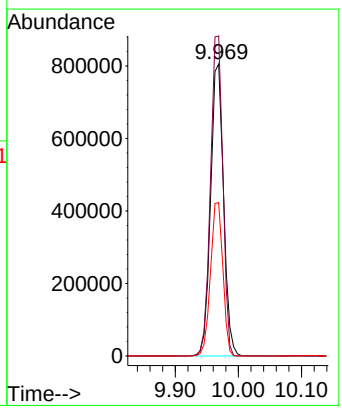


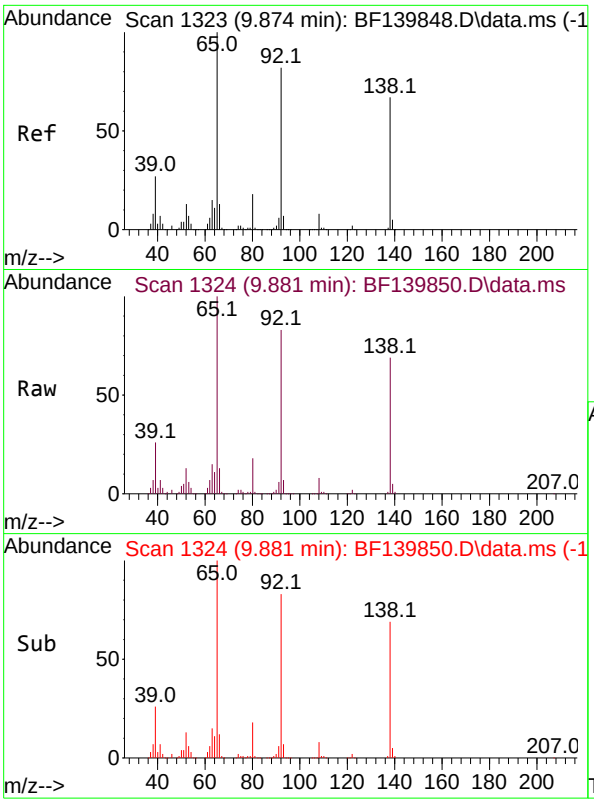


#52
Acenaphthene
Concen: 56.242 ng
RT: 9.969 min Scan# 1339
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:154 Resp: 1148095

Ion	Ratio	Lower	Upper
154	100		
153	109.6	89.8	134.6
152	52.5	42.4	63.6





#53
3-Nitroaniline
Concen: 60.726 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

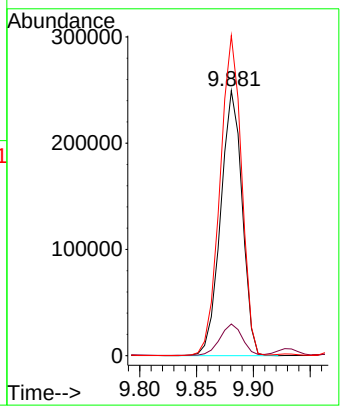
Tgt Ion:138 Resp: 32879

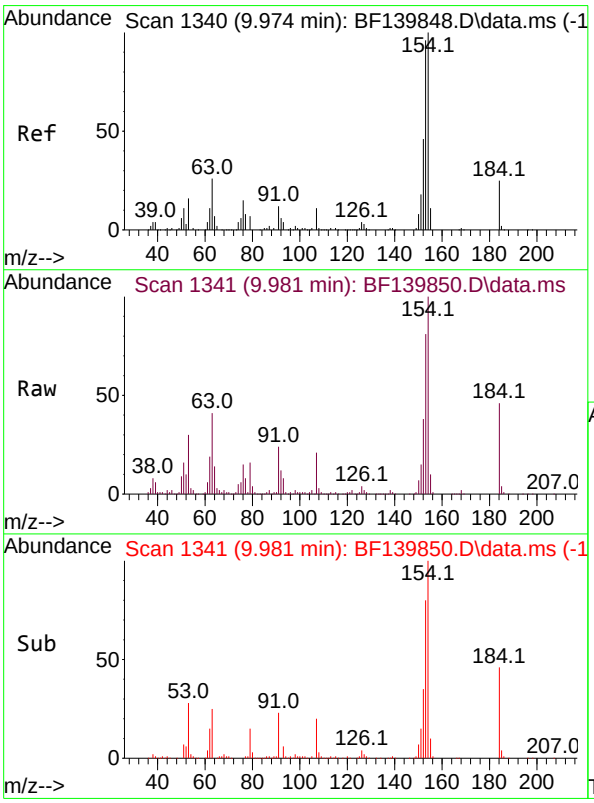
Ion	Ratio	Lower	Upper
138	100		
108	12.0	10.2	15.2
92	120.8	98.3	147.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

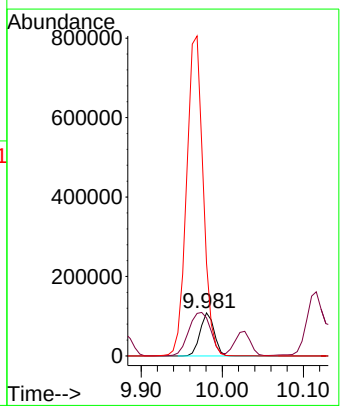


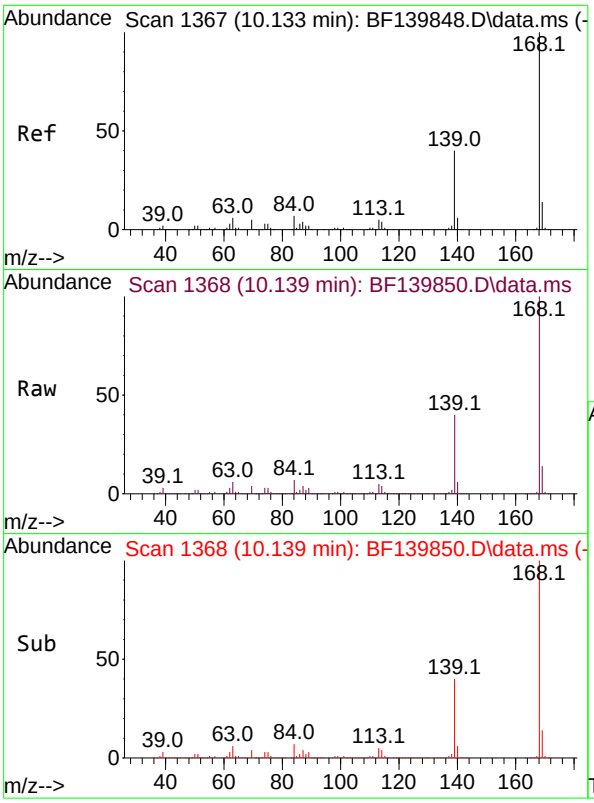


#54
2,4-Dinitrophenol
Concen: 61.938 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.007 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:184 Resp: 131611

Ion	Ratio	Lower	Upper
184	100		
63	88.4	84.7	127.1
154	215.7	338.2	507.2#

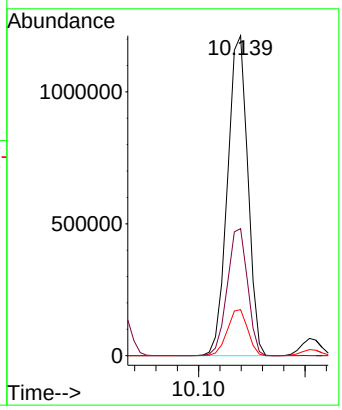




#55
Dibenzofuran
Concen: 54.819 ng
RT: 10.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:168 Resp: 160557

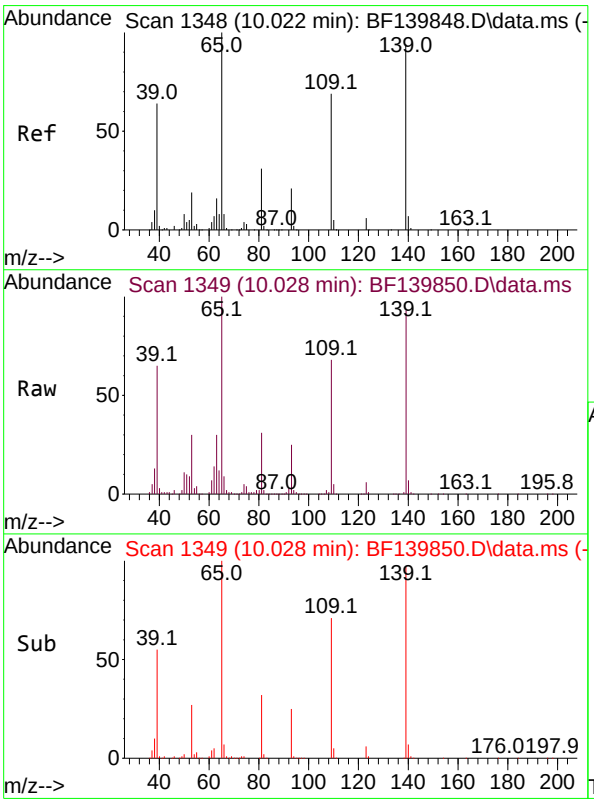
Ion	Ratio	Lower	Upper
168	100		
139	39.7	31.8	47.6
169	14.4	11.6	17.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

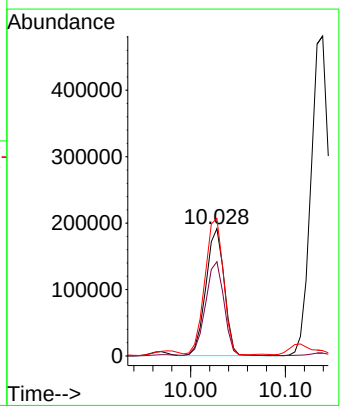
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

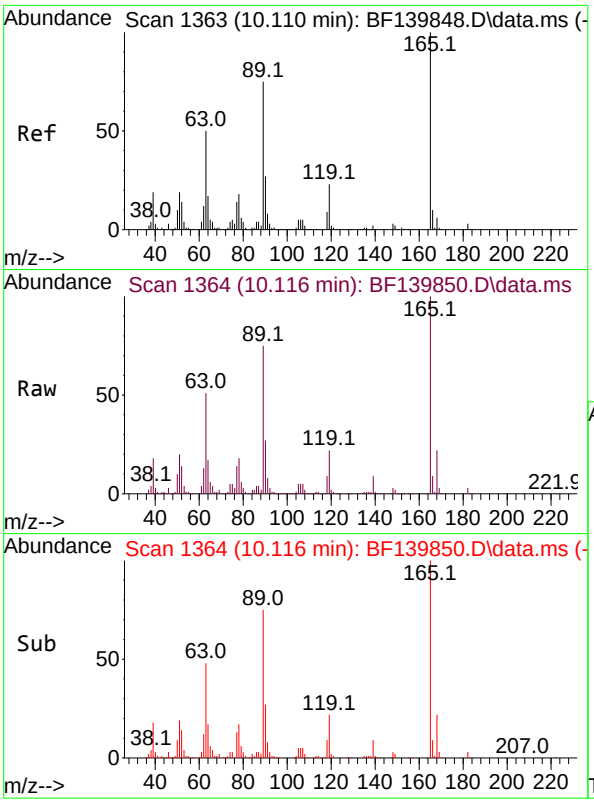


#56
4-Nitrophenol
Concen: 61.631 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:139 Resp: 256728

Ion	Ratio	Lower	Upper
139	100		
109	74.0	53.6	93.6
65	108.1	87.8	127.8

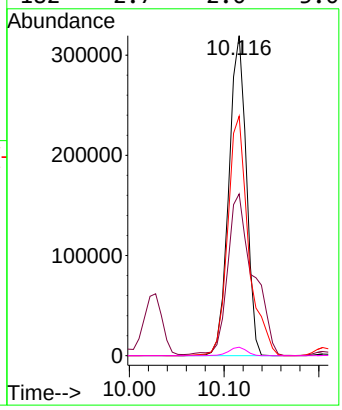




#57
2,4-Dinitrotoluene
Concen: 63.558 ng
RT: 10.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:165 Resp: 41036

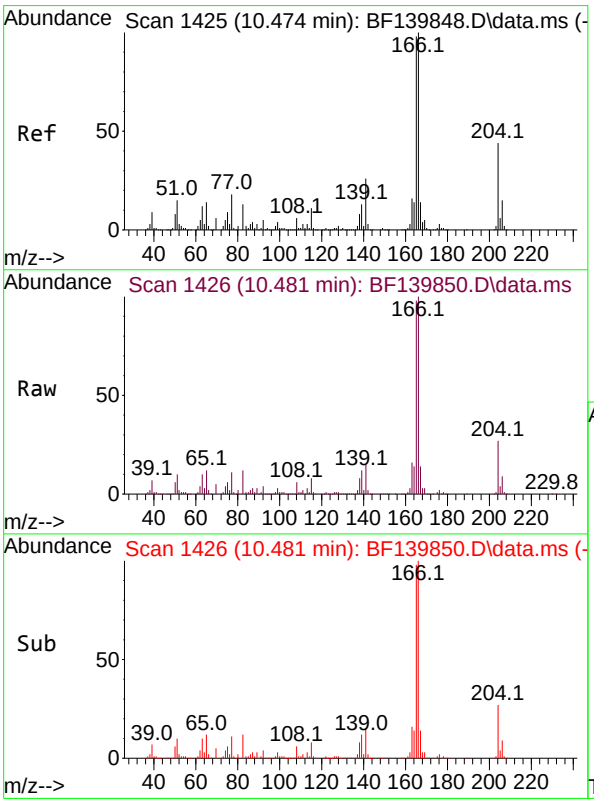
Ion	Ratio	Lower	Upper
165	100		
63	50.6	40.1	60.1
89	74.9	60.4	90.6
182	2.7	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

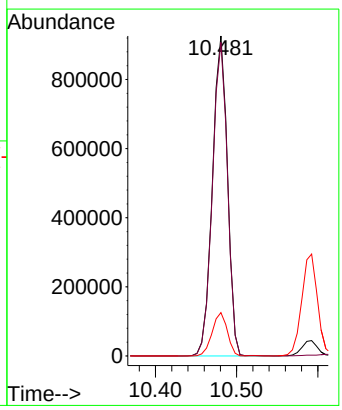
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

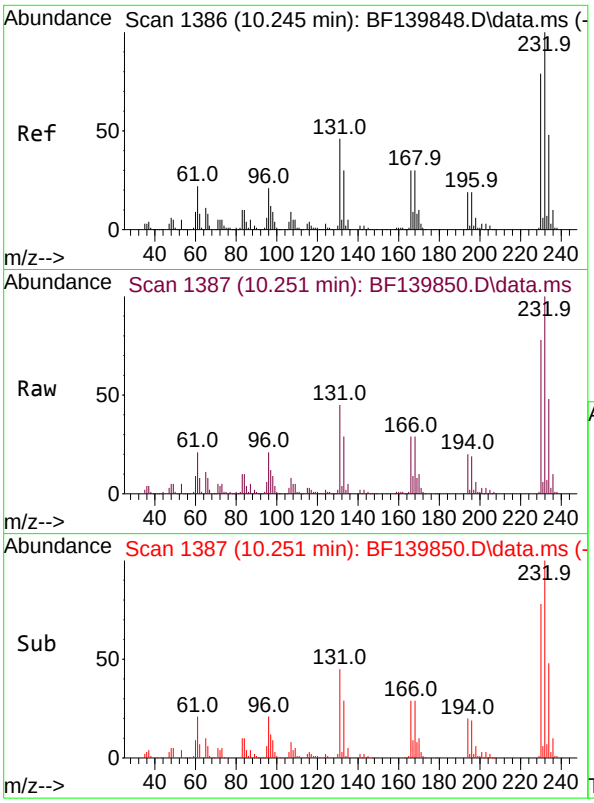


#58
Fluorene
Concen: 53.435 ng
RT: 10.481 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:166 Resp: 1192018

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.5	117.7
167	13.5	10.9	16.3

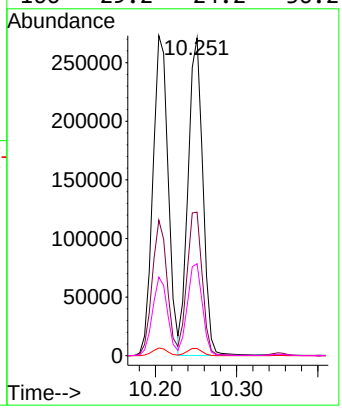




#59
2,3,4,6-Tetrachlorophenol
Concen: 56.946 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:232 Resp: 34247

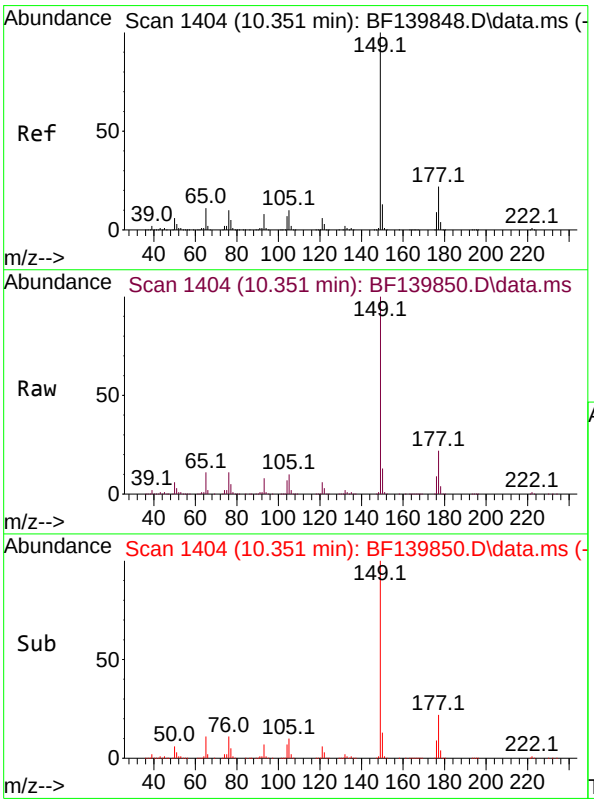
Ion	Ratio	Lower	Upper
232	100		
131	46.7	37.0	55.6
130	2.4	1.9	2.9
166	29.2	24.2	36.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

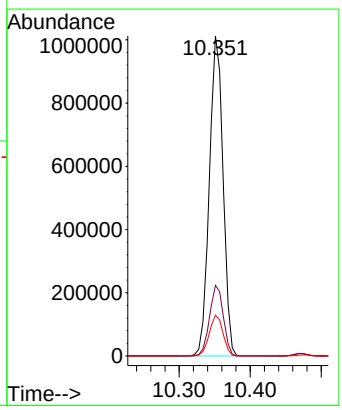
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

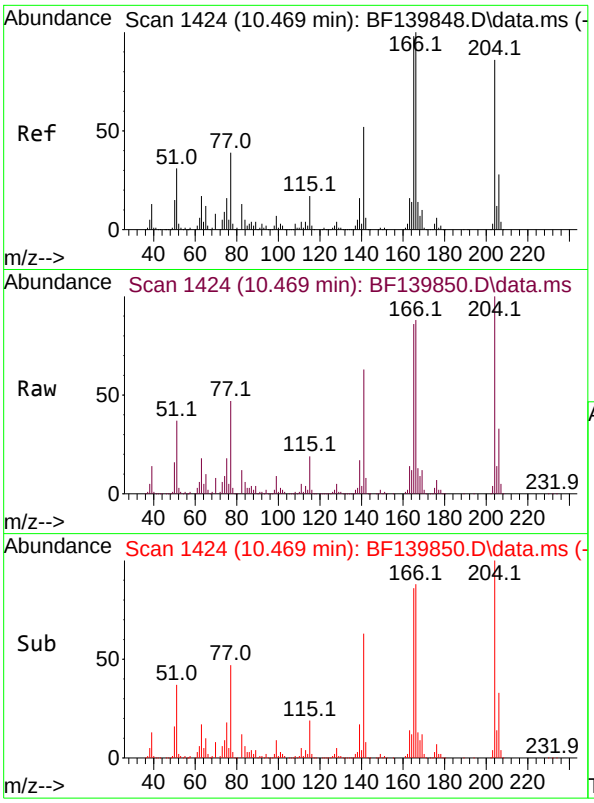


#60
Diethylphthalate
Concen: 56.954 ng
RT: 10.351 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:149 Resp: 1355992

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.9	26.9
150	12.8	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 53.858 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

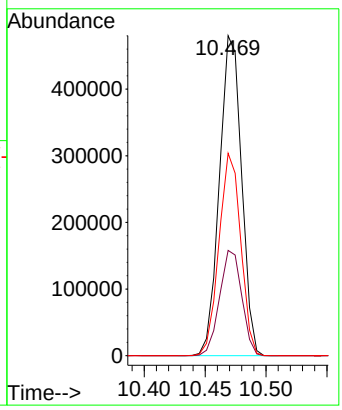
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

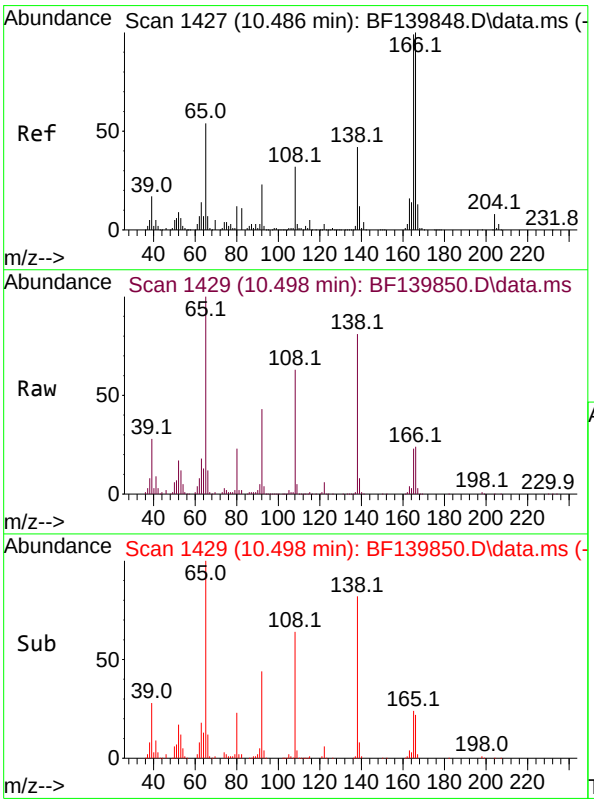
Tgt Ion:204 Resp: 60673

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.3	39.5
141	63.3	48.6	73.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

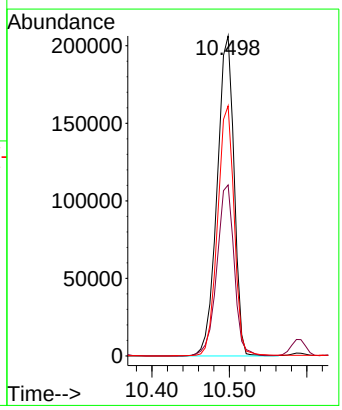


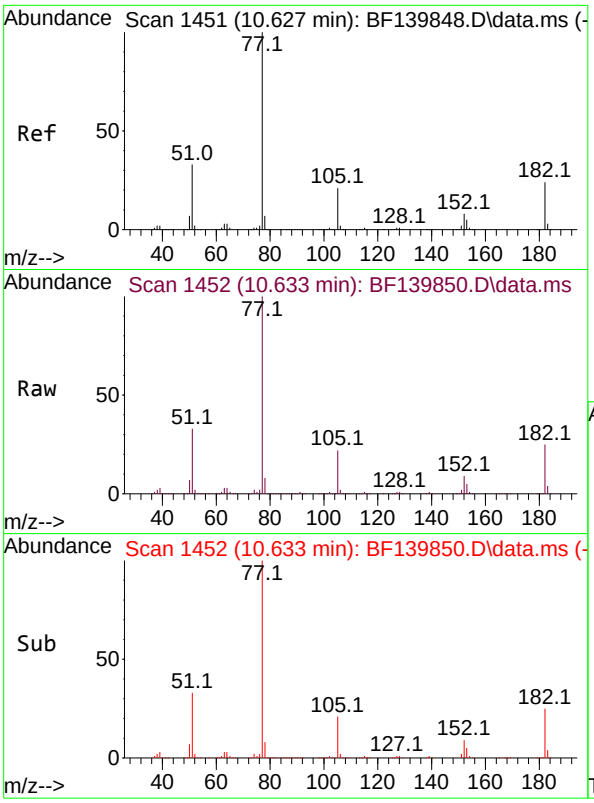


#62
4-Nitroaniline
Concen: 61.507 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.012 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:138 Resp: 314525

Ion	Ratio	Lower	Upper
138	100		
92	53.4	35.7	75.7
108	78.2	57.5	97.5

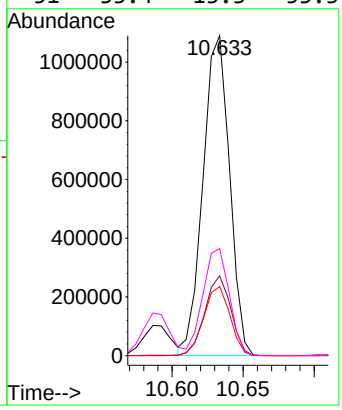




#63
Azobenzene
Concen: 56.090 ng
RT: 10.633 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion: 77 Resp: 141576

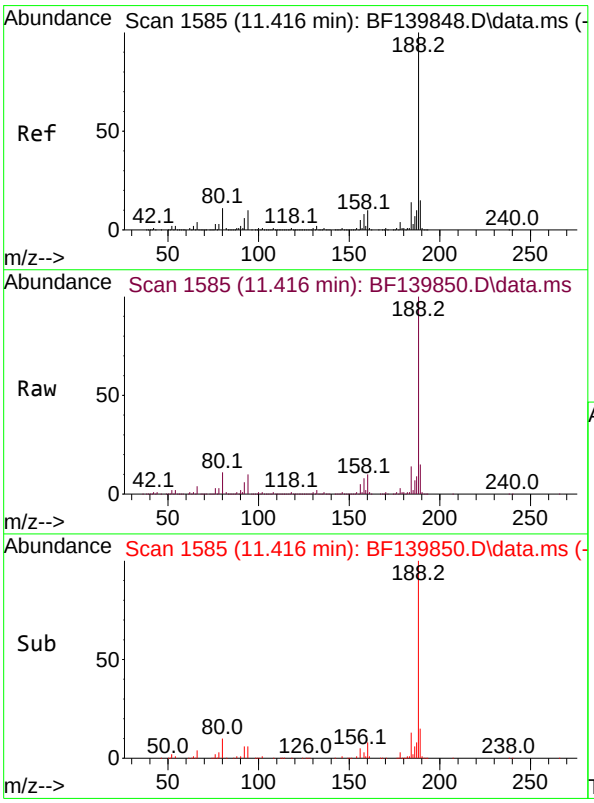
Ion	Ratio	Lower	Upper
77	100		
182	24.9	3.3	43.3
105	21.6	1.2	41.2
51	33.4	13.3	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

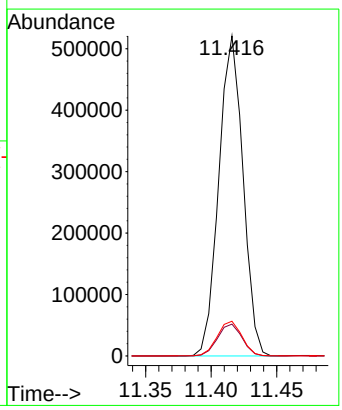
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

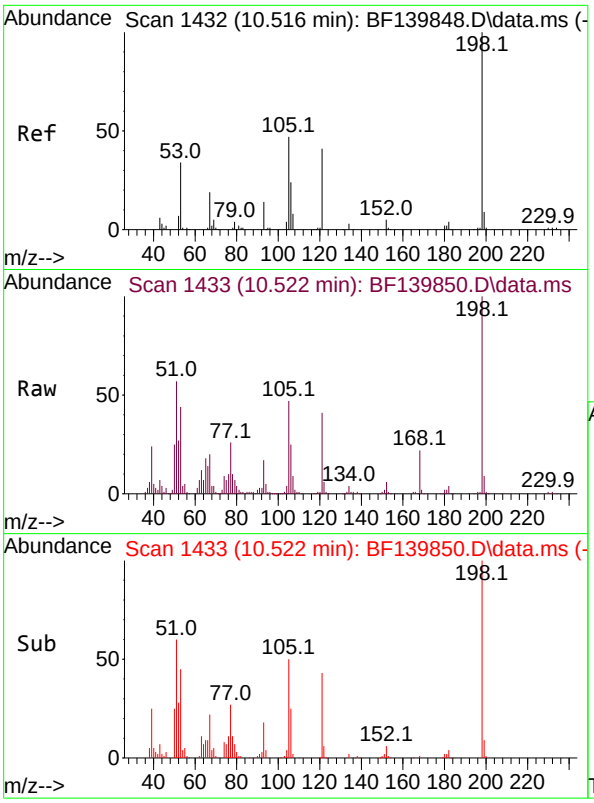


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:188 Resp: 667372

Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.9	11.9
80	10.9	9.0	13.4





#65
4,6-Dinitro-2-methylphenol
Concen: 67.951 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

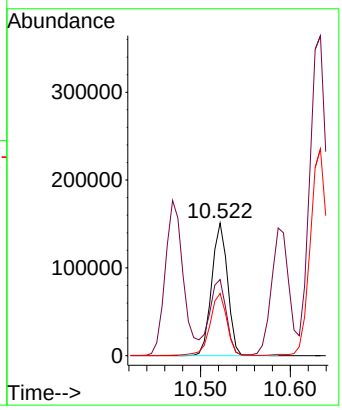
Tgt Ion:198 Resp: 18497

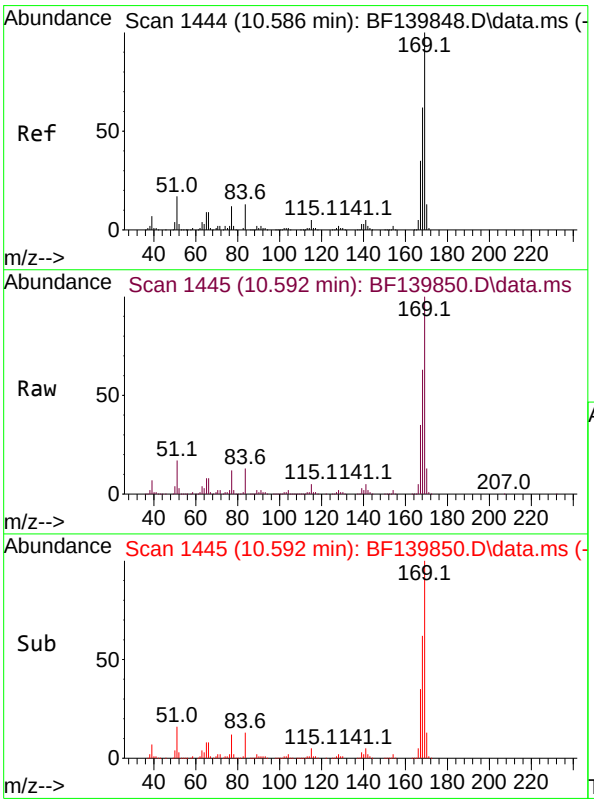
Ion	Ratio	Lower	Upper
198	100		
51	57.4	38.2	78.2
105	47.0	27.9	67.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

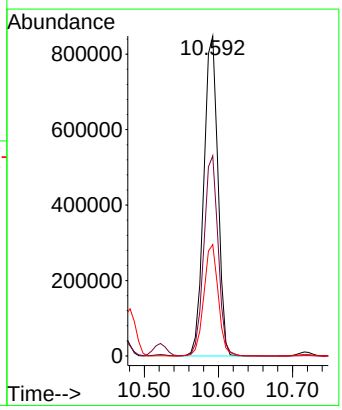


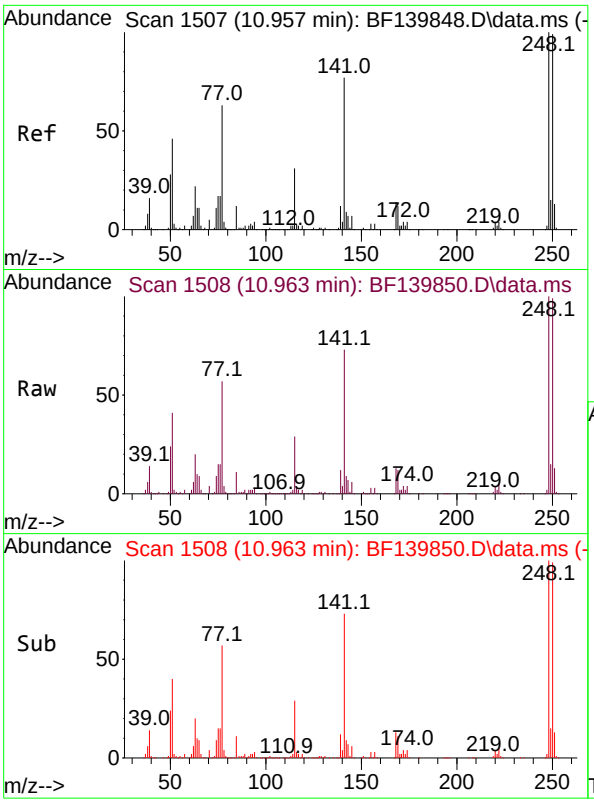


#66
n-Nitrosodiphenylamine
Concen: 56.214 ng
RT: 10.592 min Scan# 1445
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:169 Resp: 1122831

Ion	Ratio	Lower	Upper
169	100		
168	62.5	49.8	74.6
167	34.8	28.0	42.0

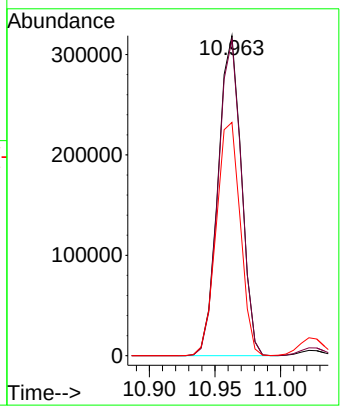




#67
4-Bromophenyl-phenylether
Concen: 57.100 ng
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:248 Resp: 39257

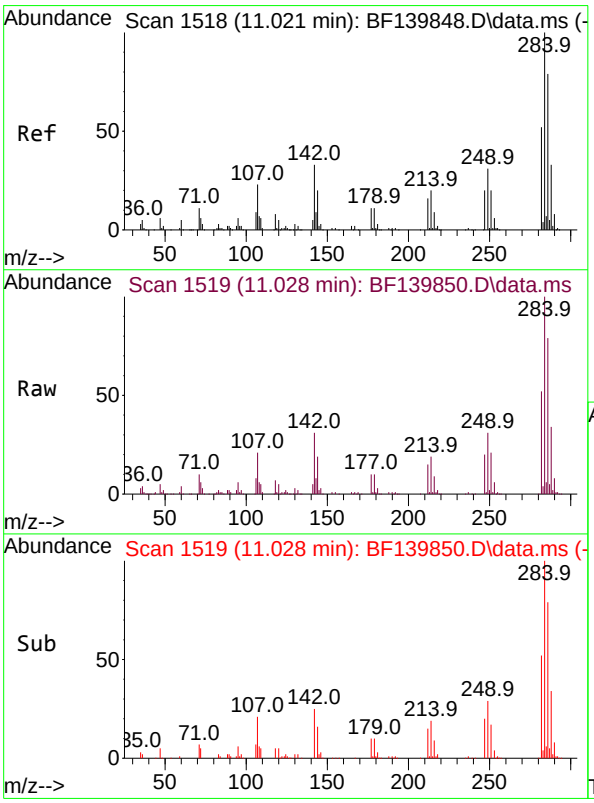
Ion	Ratio	Lower	Upper
248	100		
250	98.7	79.0	118.6
141	72.9	61.7	92.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

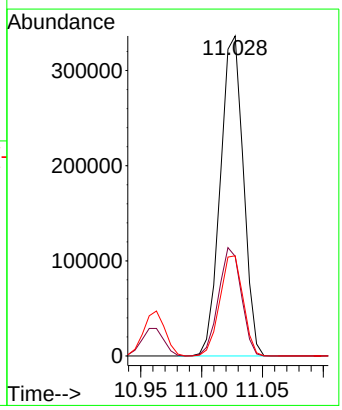
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

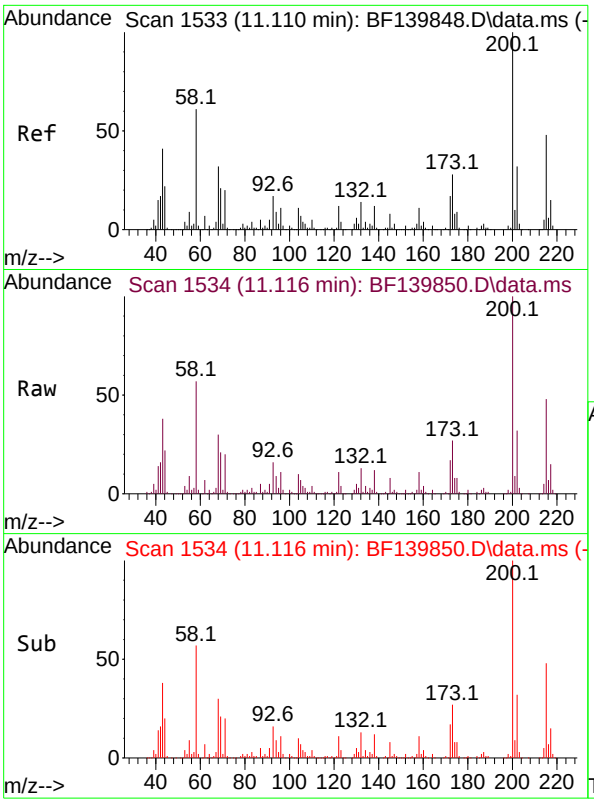


#68
Hexachlorobenzene
Concen: 57.187 ng
RT: 11.028 min Scan# 1519
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:284 Resp: 442187

Ion	Ratio	Lower	Upper
284	100		
142	31.2	26.9	40.3
249	31.3	25.3	37.9

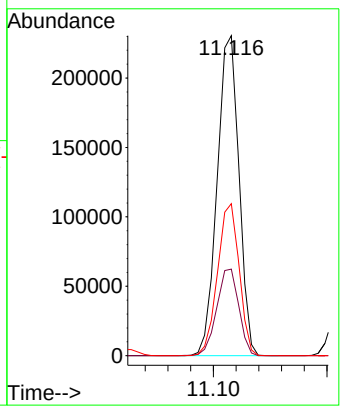




#69
Atrazine
Concen: 56.767 ng
RT: 11.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:200 Resp: 30714

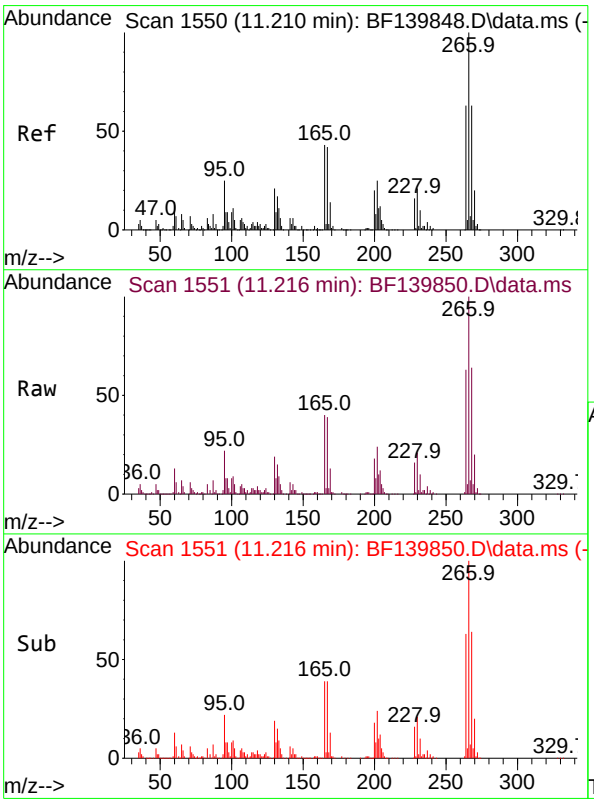
Ion	Ratio	Lower	Upper
200	100		
173	27.1	7.7	47.7
215	47.5	27.7	67.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

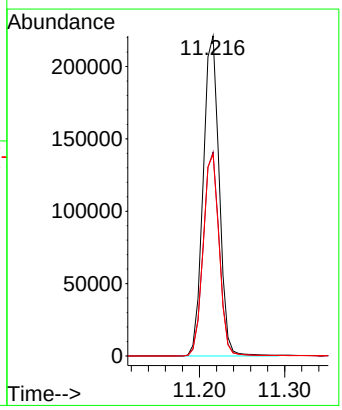
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

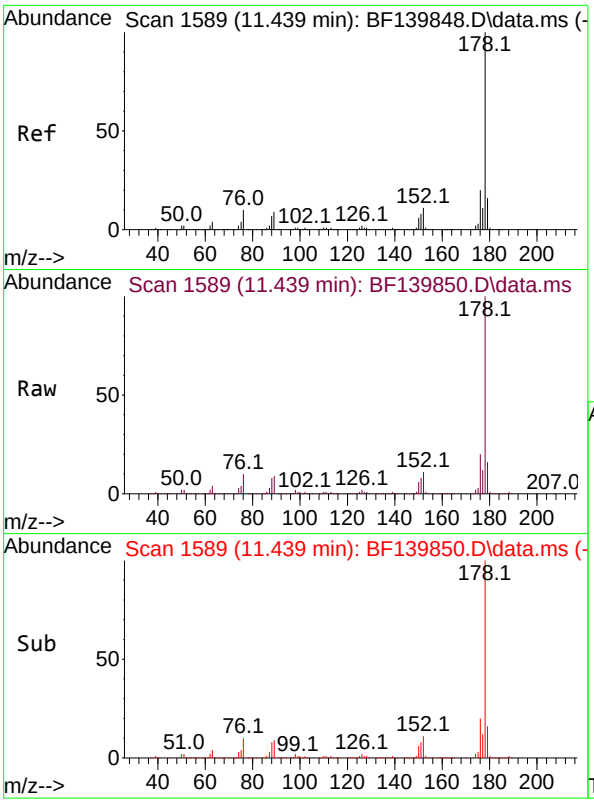


#70
Pentachlorophenol
Concen: 61.587 ng
RT: 11.216 min Scan# 1551
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:266 Resp: 289014

Ion	Ratio	Lower	Upper
266	100		
268	63.7	50.4	75.6
264	63.0	50.6	75.8

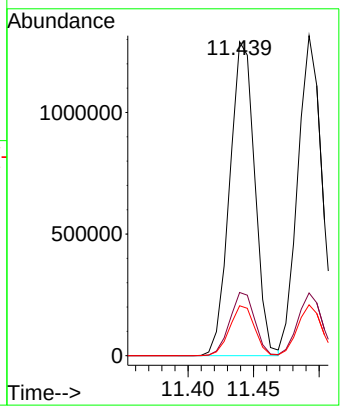




#71
Phenanthrene
Concen: 54.618 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:178 Resp: 172176

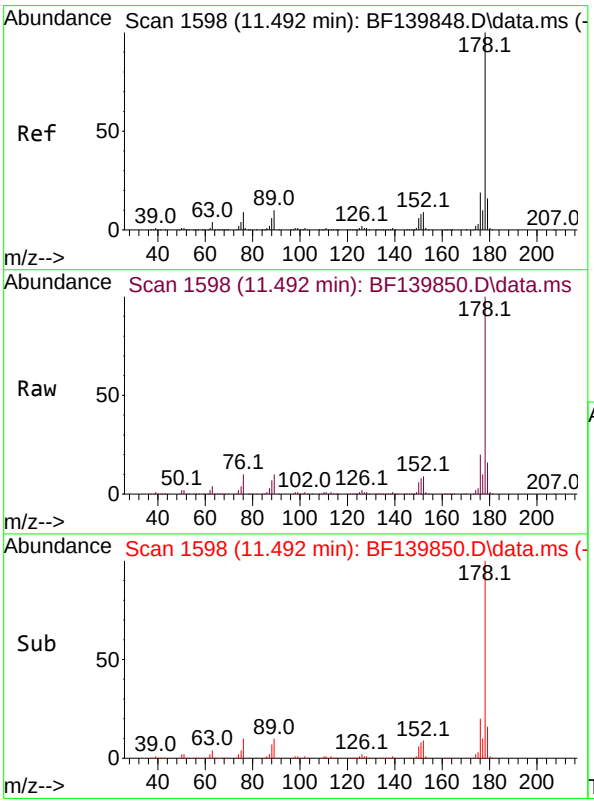
Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.8	23.6
179	15.9	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

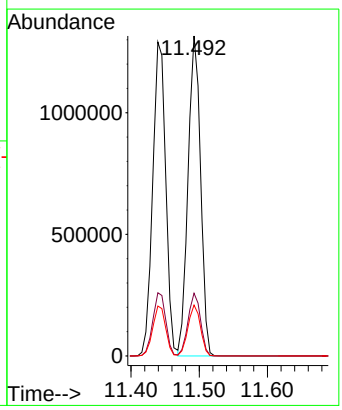
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

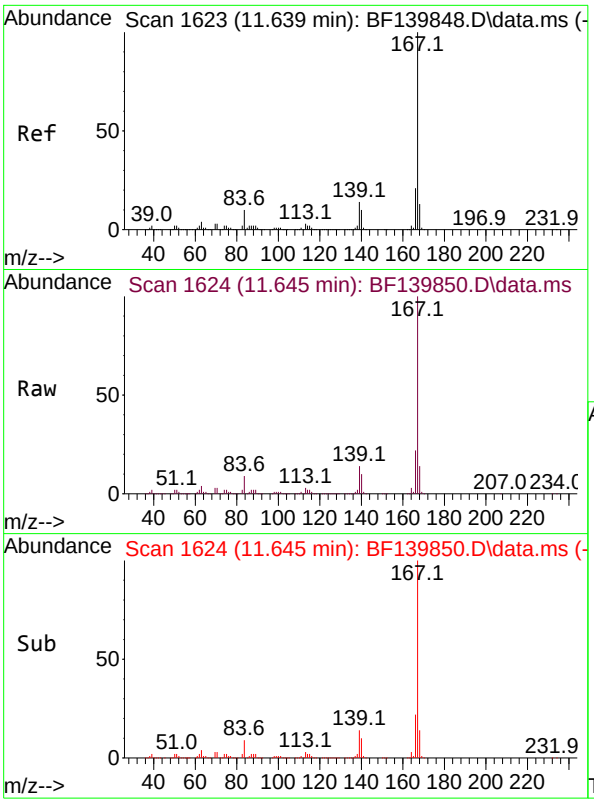


#72
Anthracene
Concen: 54.206 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:178 Resp: 1667221

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.3	22.9
179	15.9	12.4	18.6

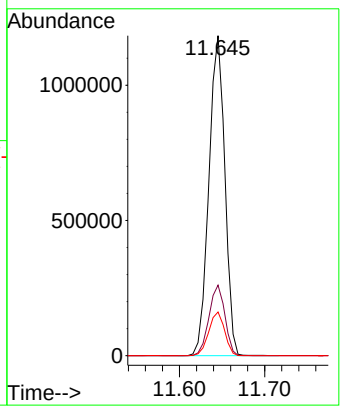




#73
Carbazole
Concen: 54.015 ng
RT: 11.645 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:167 Resp: 154508

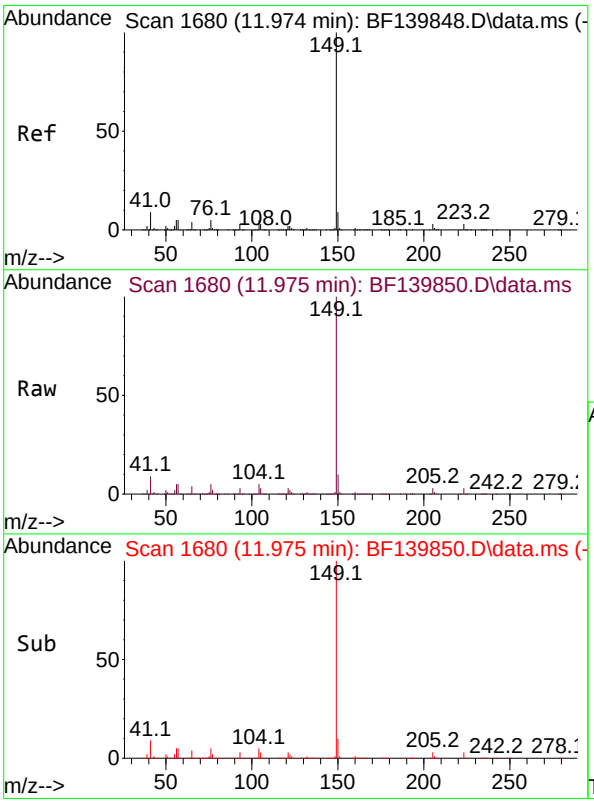
Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.0	25.6
139	13.7	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

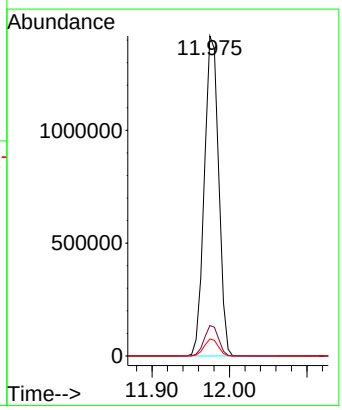
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

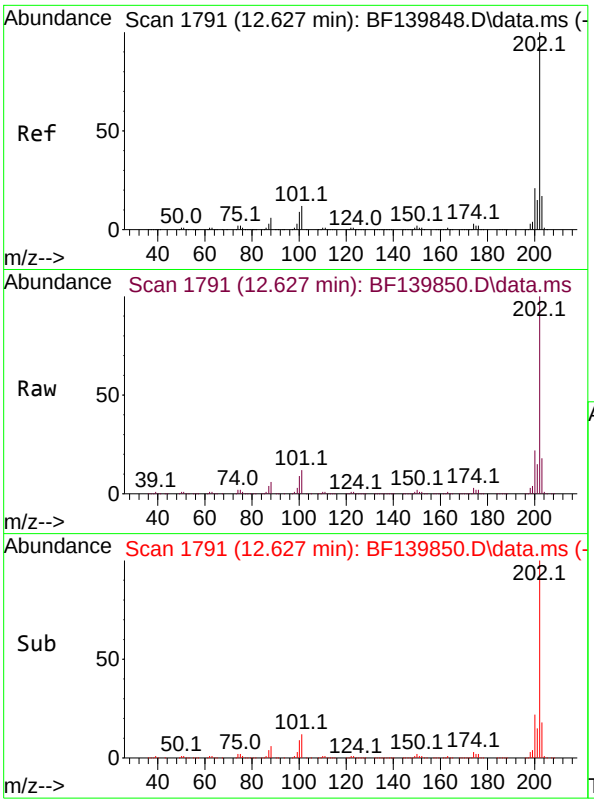


#74
Di-n-butylphthalate
Concen: 55.069 ng
RT: 11.975 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:149 Resp: 1819929

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.5	11.3
104	5.3	4.1	6.1





#75
Fluoranthene
Concen: 52.448 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

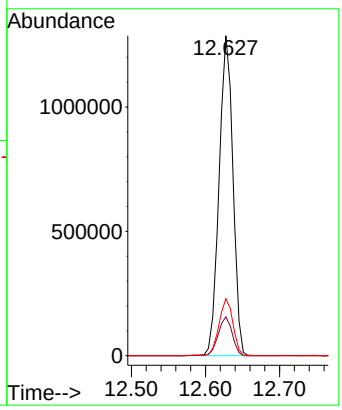
Tgt Ion:202 Resp: 167140

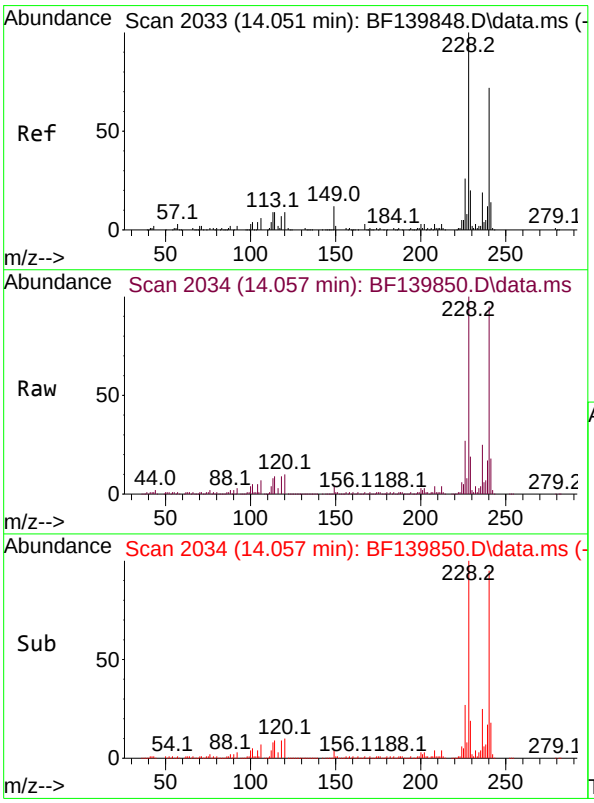
Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	31.9
203	17.8	0.0	37.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

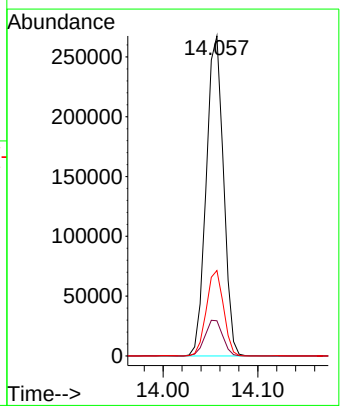


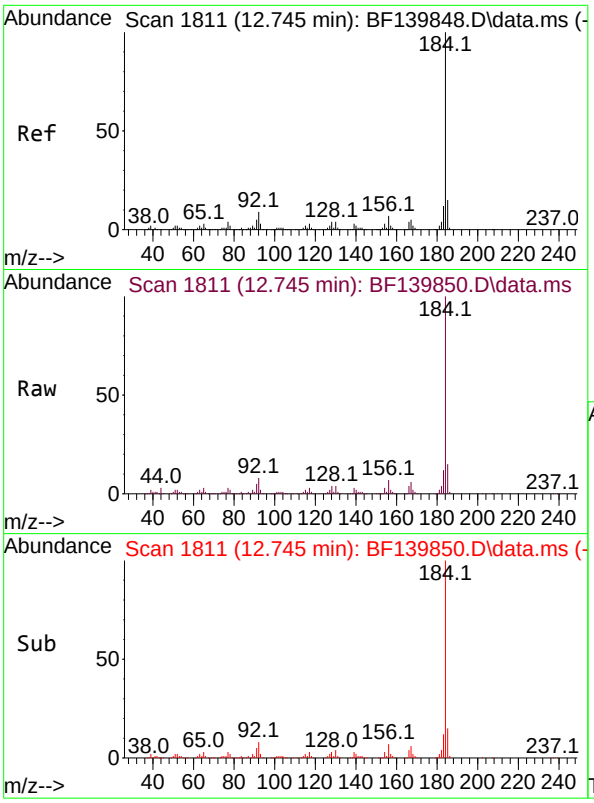


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:240 Resp: 337032

Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.4	14.2
236	26.7	20.9	31.3

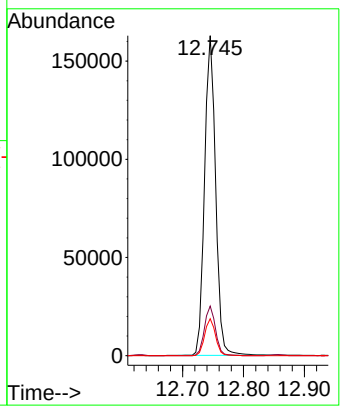




#77
Benzidine
Concen: 37.499 ng
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:184 Resp: 20554

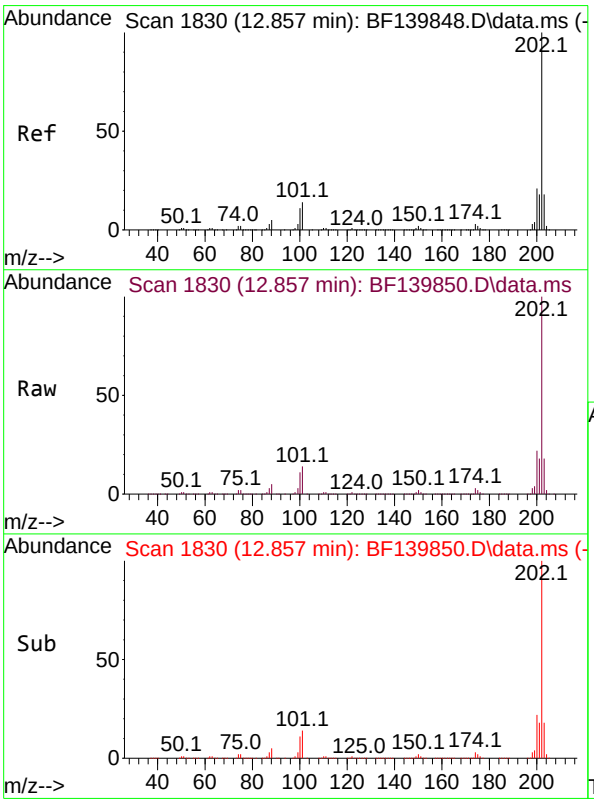
Ion	Ratio	Lower	Upper
184	100		
185	15.5	12.0	18.0
183	11.5	9.4	14.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

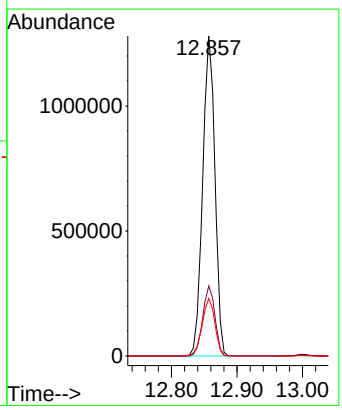
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

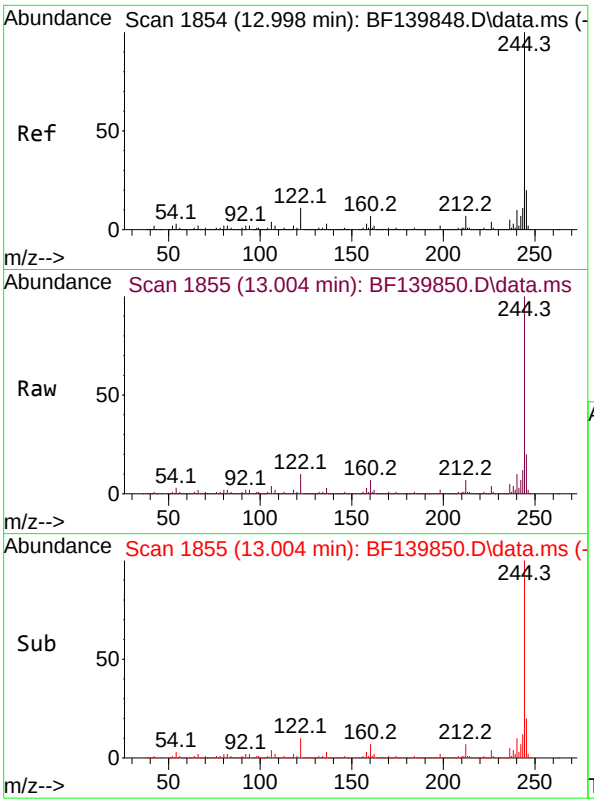


#78
Pyrene
Concen: 56.522 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:202 Resp: 1667489

Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.2	25.8
203	18.0	14.2	21.4

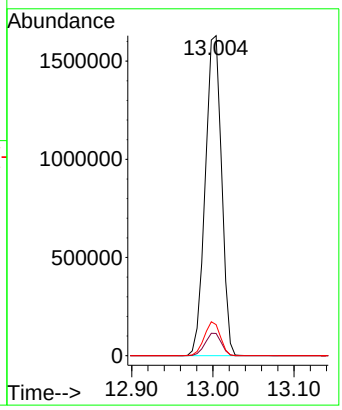




#79
Terphenyl-d14
Concen: 109.563 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:244 Resp: 226612

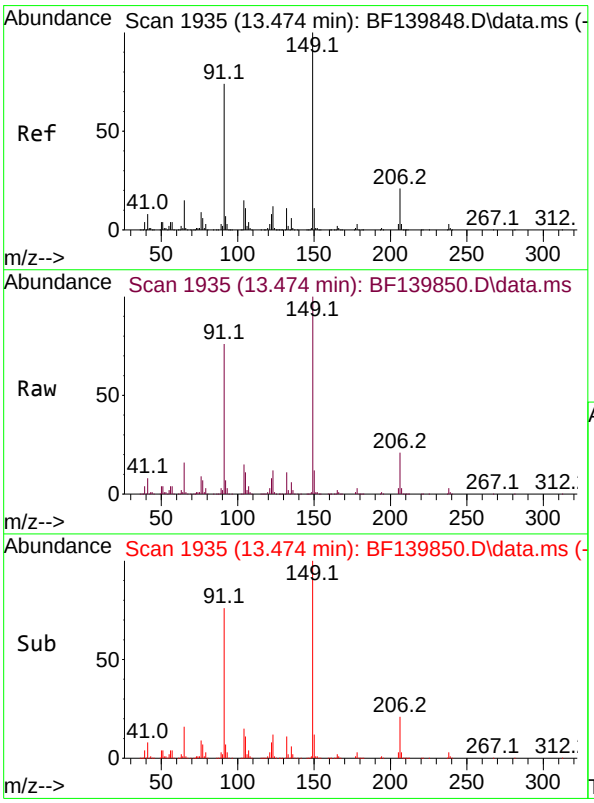
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.7	8.5
122	9.7	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

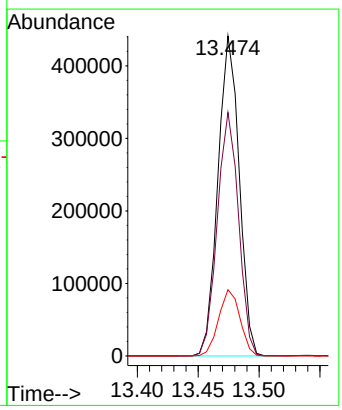
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

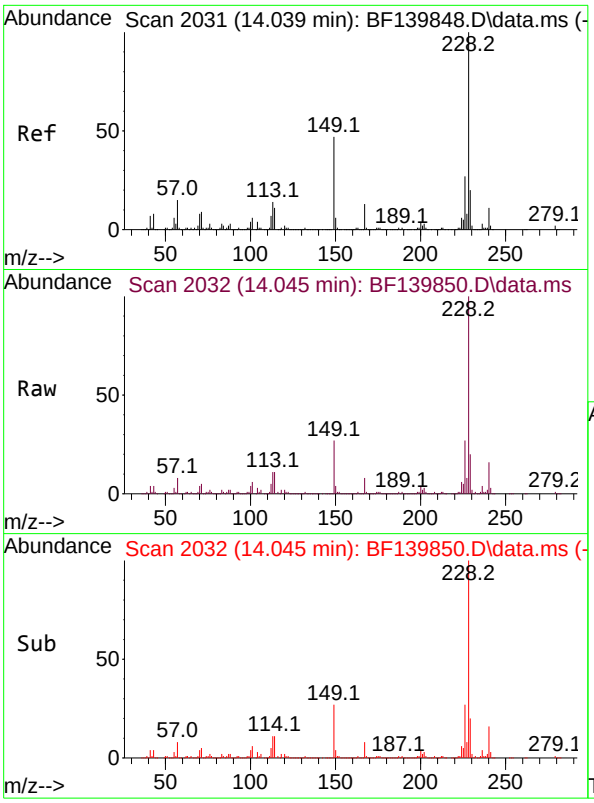


#80
Butylbenzylphthalate
Concen: 60.719 ng
RT: 13.474 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:149 Resp: 537039

Ion	Ratio	Lower	Upper
149	100		
91	76.1	59.4	89.2
206	20.7	16.4	24.6

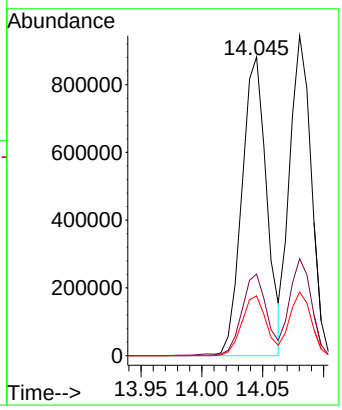




#81
Benzo(a)anthracene
Concen: 56.992 ng
RT: 14.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:228 Resp: 125038

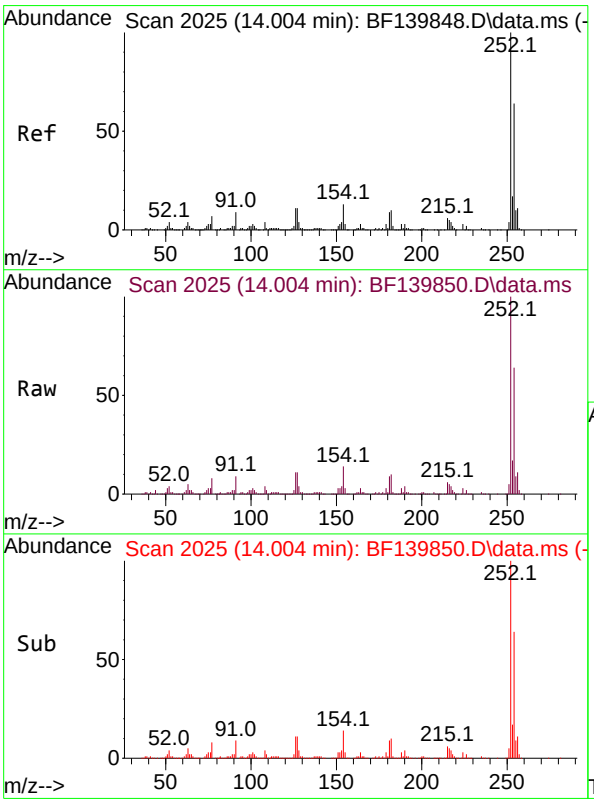
Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.6	32.4
229	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

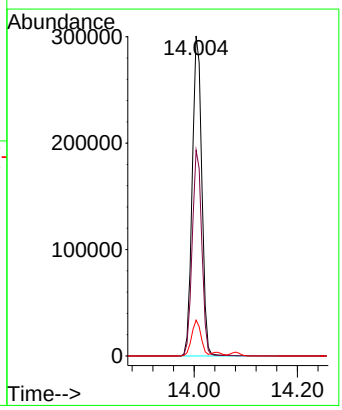
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

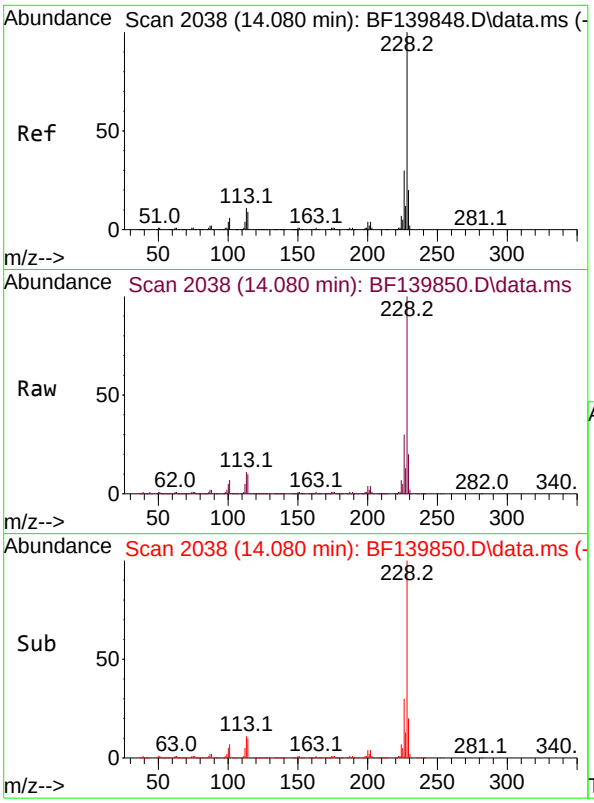


#82
3,3'-Dichlorobenzidine
Concen: 60.353 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:252 Resp: 386072

Ion	Ratio	Lower	Upper
252	100		
254	64.3	50.8	76.2
126	11.2	8.9	13.3

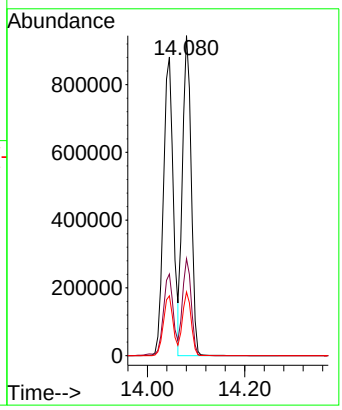




#83
Chrysene
Concen: 57.855 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:228 Resp: 116380

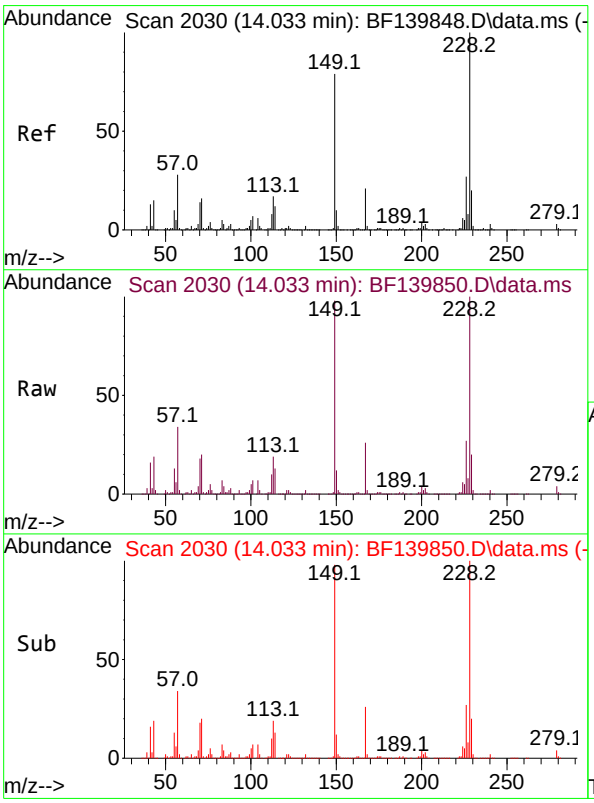
Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.1	36.1
229	19.9	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

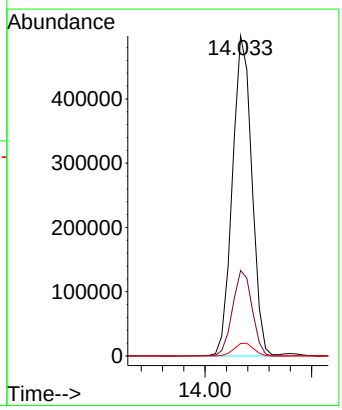
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

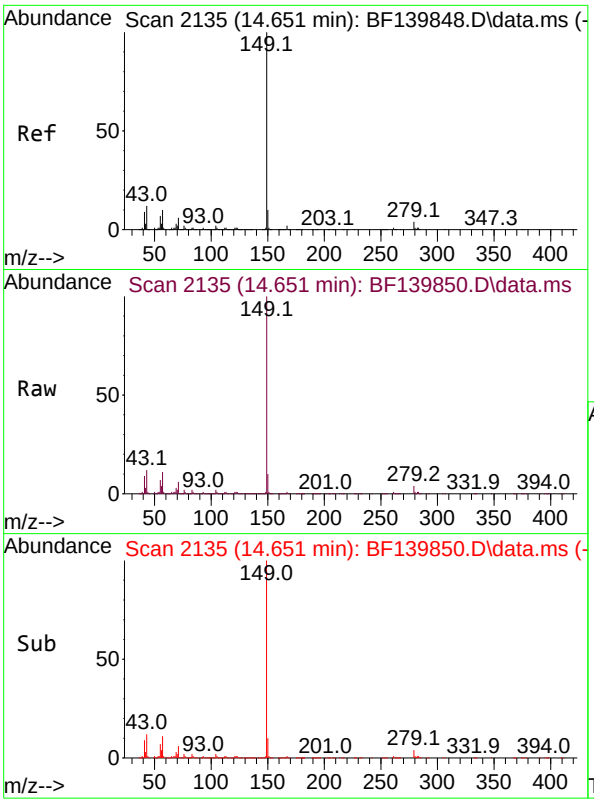


#84
Bis(2-ethylhexyl)phthalate
Concen: 63.749 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:149 Resp: 632594

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.0
279	3.9	3.0	4.4

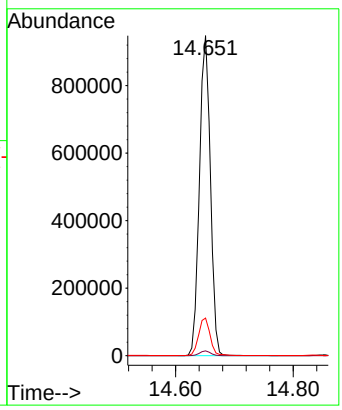




#85
Di-n-octyl phthalate
Concen: 67.634 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:149 Resp: 122073

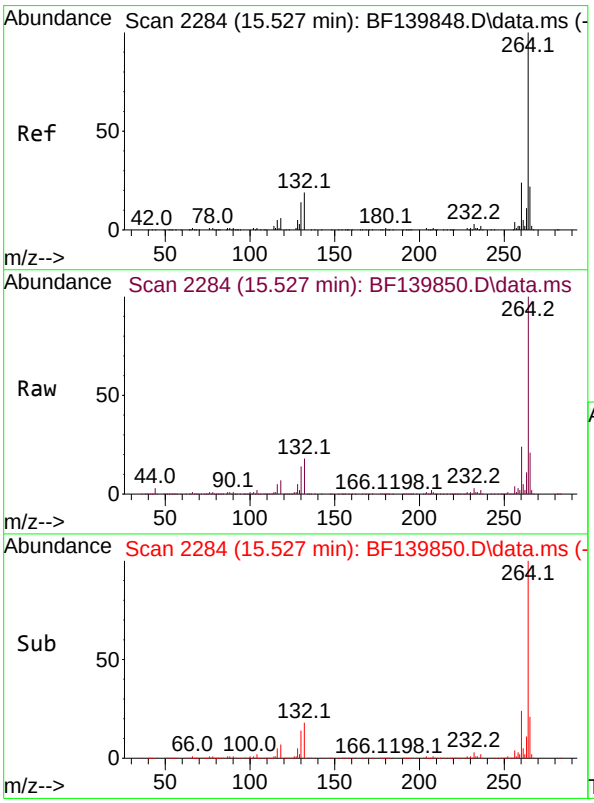
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	12.3	9.8	14.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

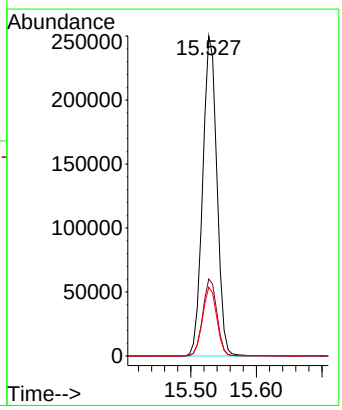
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

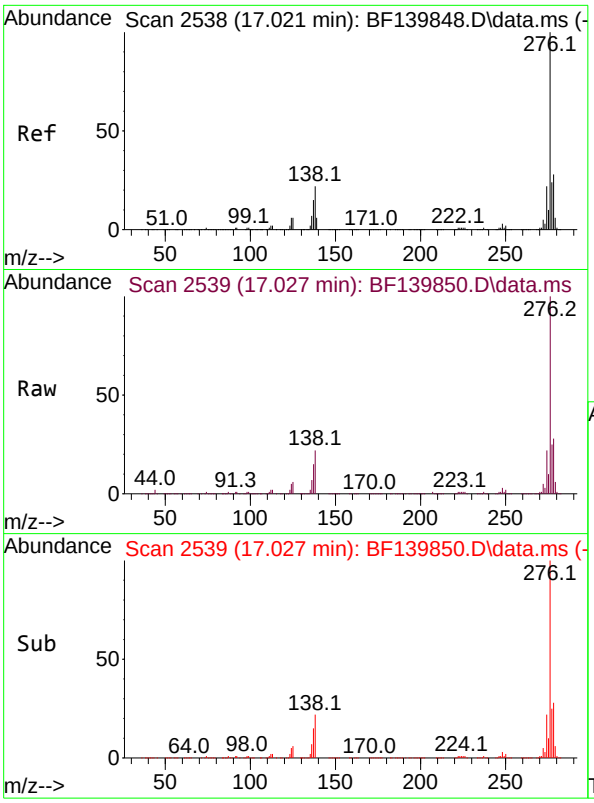


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:264 Resp: 377203

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.4	29.2
265	21.5	17.4	26.0

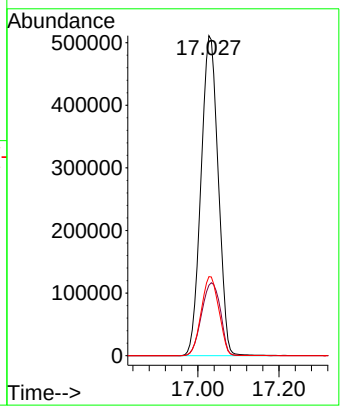




#87
Indeno(1,2,3-cd)pyrene
Concen: 61.817 ng
RT: 17.027 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:276 Resp: 150008

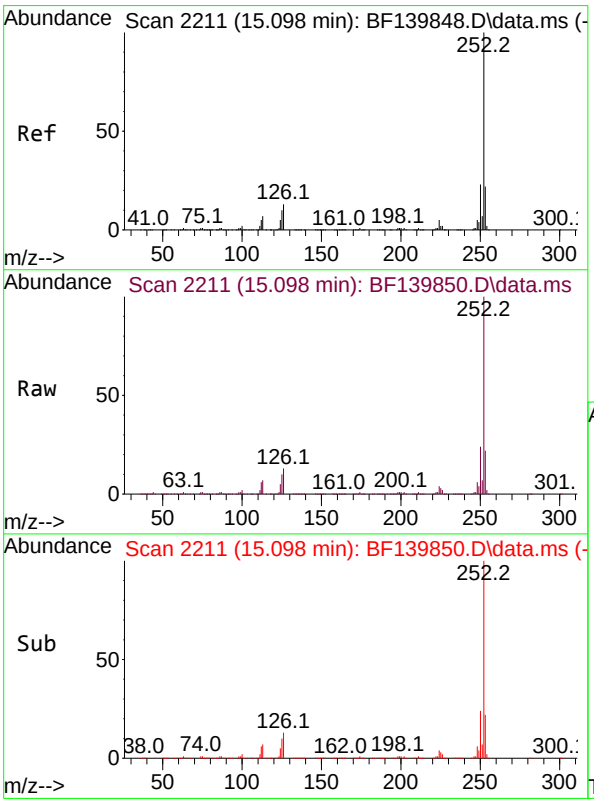
Ion	Ratio	Lower	Upper
276	100		
138	25.0	20.4	30.6
277	25.4	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

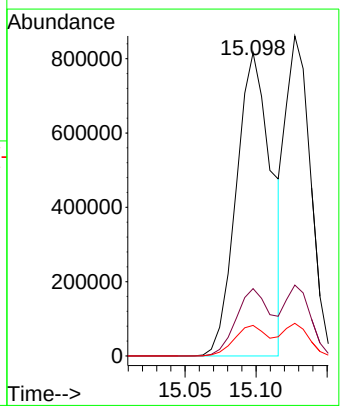
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

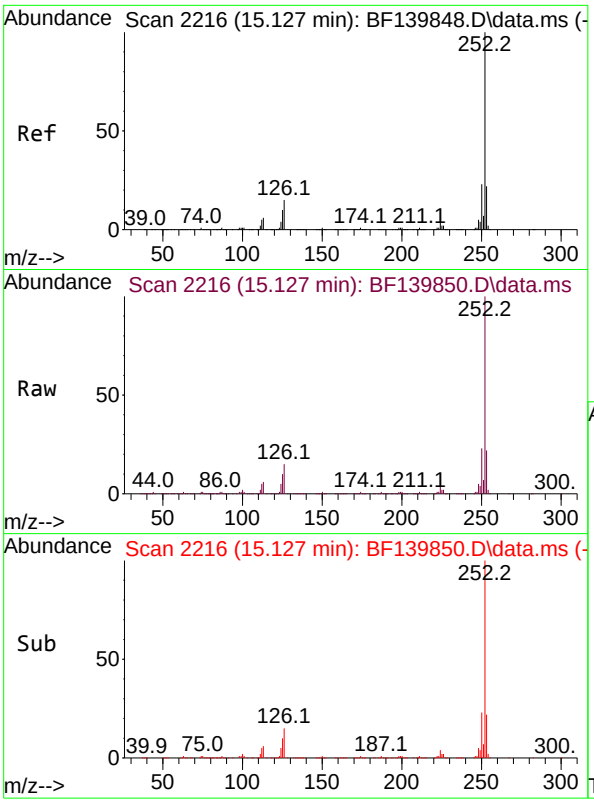


#88
Benzo(b)fluoranthene
Concen: 61.033 ng
RT: 15.098 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:252 Resp: 1402395

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	10.1	7.9	11.9





#89
Benzo(k)fluoranthene
Concen: 53.053 ng
RT: 15.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

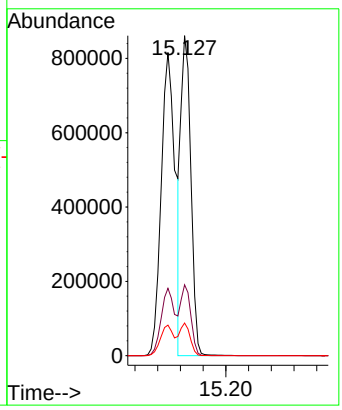
Tgt Ion:252 Resp: 105130

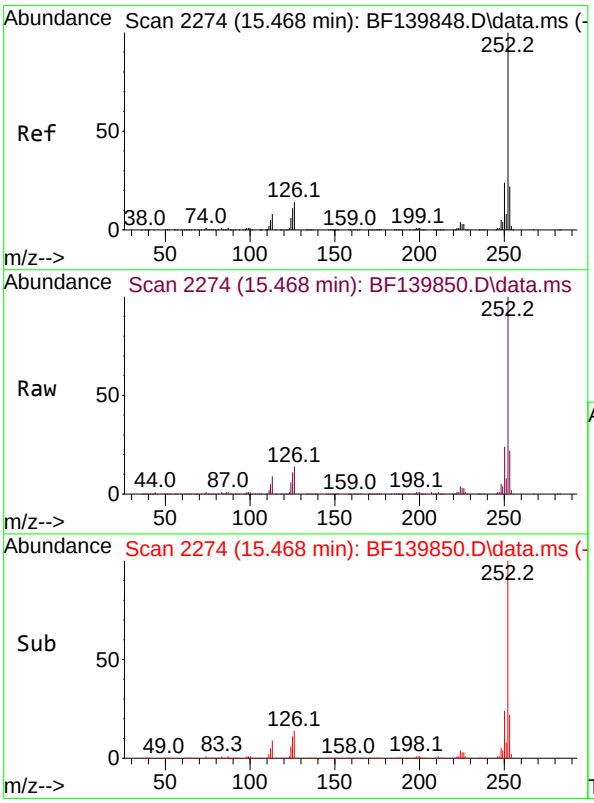
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	10.2	7.9	11.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

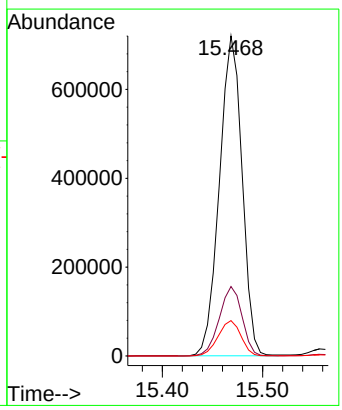


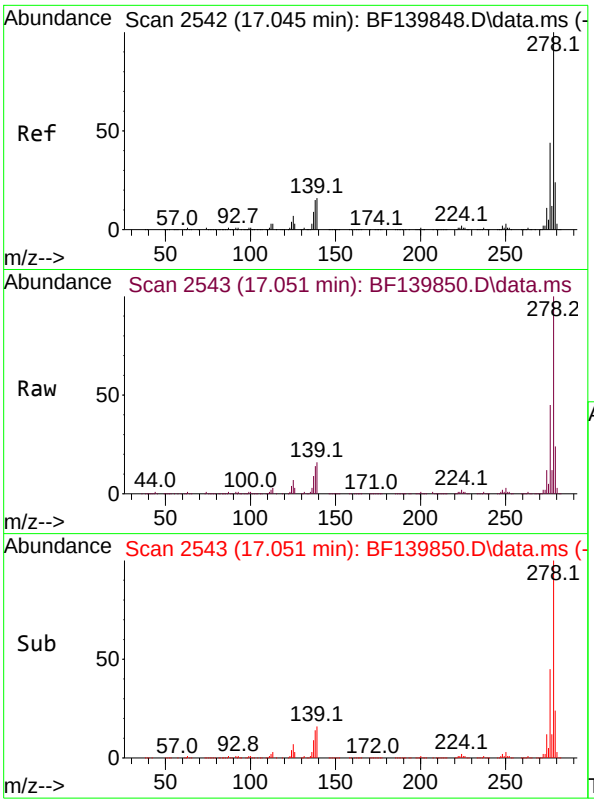


#90
Benzo(a)pyrene
Concen: 59.764 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:252 Resp: 1129942

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9
125	11.0	8.7	13.1

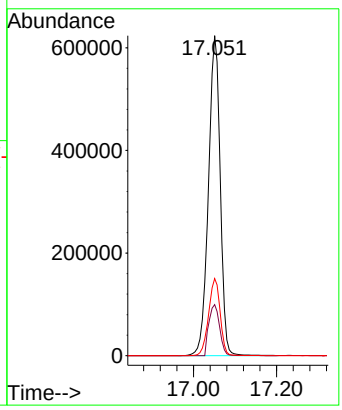




#91
Dibenzo(a,h)anthracene
Concen: 60.667 ng
RT: 17.051 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:278 Resp: 122812

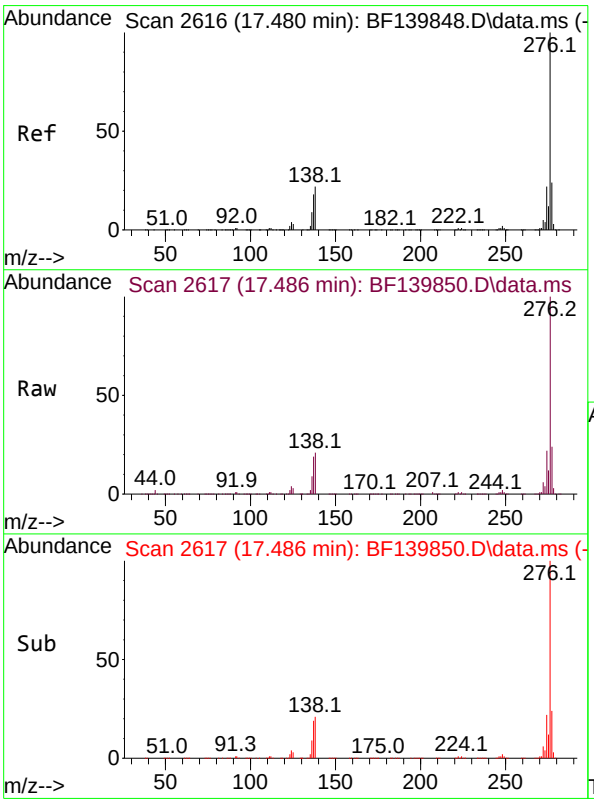
Ion	Ratio	Lower	Upper
278	100		
139	16.0	13.1	19.7
279	24.1	19.0	28.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

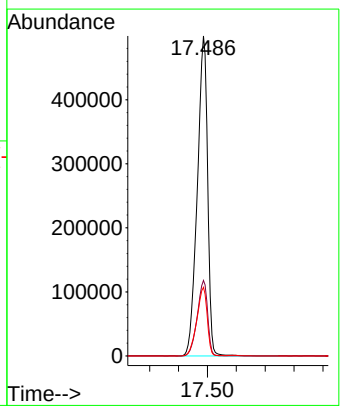
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



#92
Benzo(g,h,i)perylene
Concen: 61.272 ng
RT: 17.486 min Scan# 2617
Delta R.T. 0.006 min
Lab File: BF139850.D
Acq: 18 Oct 2024 13:17

Tgt Ion:276 Resp: 1238955

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.6
138	21.4	17.4	26.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139851.D
Acq On : 18 Oct 2024 13:46
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:21:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	187399	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	693285	20.000	ng		0.00
39) Acenaphthene-d10	9.933	164	377723	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	633721	20.000	ng		0.00
76) Chrysene-d12	14.057	240	323513	20.000	ng		0.00
86) Perylene-d12	15.533	264	374491	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	1657822	138.491	ng		0.00
7) Phenol-d6	6.522	99	2147173	138.492	ng		0.01
23) Nitrobenzene-d5	7.463	82	1897374	151.683	ng		0.01
42) 2,4,6-Tribromophenol	10.722	330	522350	147.845	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	2941186	128.689	ng		0.00
79) Terphenyl-d14	13.004	244	2634676	132.704	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.693	88	410806	73.604	ng		99
3) Pyridine	3.452	79	993777	71.834	ng		99
4) n-Nitrosodimethylamine	3.422	42	567647	76.370	ng		98
6) Aniline	6.598	93	992375m	68.680	ng		
8) 2-Chlorophenol	6.681	128	836233	68.333	ng		98
9) Benzaldehyde	6.445	77	554983	63.632	ng		99
10) Phenol	6.534	94	1125558	69.172	ng		95
11) bis(2-Chloroethyl)ether	6.634	93	886786	71.780	ng		99
12) 1,3-Dichlorobenzene	6.834	146	969627	69.024	ng		98
13) 1,4-Dichlorobenzene	6.910	146	968088	68.978	ng		99
14) 1,2-Dichlorobenzene	7.069	146	861333	65.758	ng		99
15) Benzyl Alcohol	7.034	79	803101	70.616	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1472196	69.886	ng		99
17) 2-Methylphenol	7.140	107	752459	72.109	ng		99
18) Hexachloroethane	7.410	117	357637	71.459	ng		97
19) n-Nitroso-di-n-propyla...	7.316	70	651048	69.238	ng		99
20) 3+4-Methylphenols	7.298	107	878987	65.856	ng	#	85
22) Acetophenone	7.310	105	1149288	67.682	ng		98
24) Nitrobenzene	7.481	77	1025571	74.779	ng		99
25) Isophorone	7.722	82	1767234	74.436	ng		100
26) 2-Nitrophenol	7.792	139	434755	84.029	ng		99
27) 2,4-Dimethylphenol	7.822	122	619136	71.765	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	1022457	71.081	ng		100
29) 2,4-Dichlorophenol	8.028	162	711892	72.445	ng		99
30) 1,2,4-Trichlorobenzene	8.116	180	774108	71.194	ng		99
31) Naphthalene	8.198	128	2427578	67.894	ng		99
32) Benzoic acid	7.963	122	651887	86.634	ng		99
33) 4-Chloroaniline	8.251	127	849601	69.684	ng		99
34) Hexachlorobutadiene	8.316	225	490203	71.753	ng		99
35) Caprolactam	8.634	113	239184	76.550	ng		99
36) 4-Chloro-3-methylphenol	8.722	107	794640	73.031	ng		99
37) 2-Methylnaphthalene	8.886	142	1487841	67.944	ng		100
38) 1-Methylnaphthalene	8.986	142	1457890	67.858	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	712936	69.962	ng		100
41) Hexachlorocyclopentadiene	9.039	237	256007	72.201	ng		100
43) 2,4,6-Trichlorophenol	9.163	196	535533	74.228	ng		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139851.D
Acq On : 18 Oct 2024 13:46
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:21:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	542663	72.904	ng		99
46) 1,1'-Biphenyl	9.357	154	1753952	66.703	ng		99
47) 2-Chloronaphthalene	9.381	162	1470012	69.411	ng		99
48) 2-Nitroaniline	9.469	65	527552	81.447	ng		99
49) Acenaphthylene	9.792	152	2106357	68.796	ng		99
50) Dimethylphthalate	9.657	163	1676969	71.277	ng		99
51) 2,6-Dinitrotoluene	9.716	165	393234	77.193	ng		99
52) Acenaphthene	9.969	154	1378724	69.610	ng		99
53) 3-Nitroaniline	9.886	138	387157	73.697	ng		96
54) 2,4-Dinitrophenol	9.986	184	169167	79.932	ng	#	1
55) Dibenzofuran	10.139	168	1930402	67.930	ng		99
56) 4-Nitrophenol	10.033	139	314170	77.732	ng		99
57) 2,4-Dinitrotoluene	10.116	165	510703	81.523	ng		97
58) Fluorene	10.480	166	1426794	65.920	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	424598	72.764	ng		99
60) Diethylphthalate	10.357	149	1631842	70.641	ng		100
61) 4-Chlorophenyl-phenyle...	10.475	204	730565	66.837	ng		100
62) 4-Nitroaniline	10.504	138	383383	77.270	ng		98
63) Azobenzene	10.633	77	1727533	70.539	ng		99
65) 4,6-Dinitro-2-methylph...	10.528	198	235323	91.037	ng		98
66) n-Nitrosodiphenylamine	10.592	169	1350839	71.220	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	477995	73.216	ng		99
68) Hexachlorobenzene	11.028	284	536511	73.070	ng		98
69) Atrazine	11.116	200	382294	74.406	ng		99
70) Pentachlorophenol	11.216	266	354105	79.464	ng		99
71) Phenanthrene	11.445	178	2045577	68.336	ng		100
72) Anthracene	11.492	178	1995750	68.333	ng		99
73) Carbazole	11.645	167	1818340	66.943	ng		99
74) Di-n-butylphthalate	11.980	149	2153517	68.623	ng		100
75) Fluoranthene	12.627	202	1955847	64.632	ng		99
77) Benzidine	12.745	184	318678	60.567	ng		99
78) Pyrene	12.857	202	1935829	68.360	ng		99
80) Butylbenzylphthalate	13.474	149	664532	78.274	ng		98
81) Benzo(a)anthracene	14.045	228	1512920	71.840	ng		99
82) 3,3'-Dichlorobenzidine	14.010	252	496976	80.937	ng		98
83) Chrysene	14.080	228	1424522	73.774	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	794387	83.399	ng		99
85) Di-n-octyl phthalate	14.651	149	1534331	88.561	ng		100
87) Indeno(1,2,3-cd)pyrene	17.033	276	1877616	77.935	ng		99
88) Benzo(b)fluoranthene	15.098	252	1664856	72.980	ng		99
89) Benzo(k)fluoranthene	15.133	252	1419158	72.134	ng		99
90) Benzo(a)pyrene	15.474	252	1419026	75.598	ng		100
91) Dibenzo(a,h)anthracene	17.057	278	1552091	77.226	ng		99
92) Benzo(g,h,i)perylene	17.492	276	1550622	77.240	ng		100

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

ICAL Form

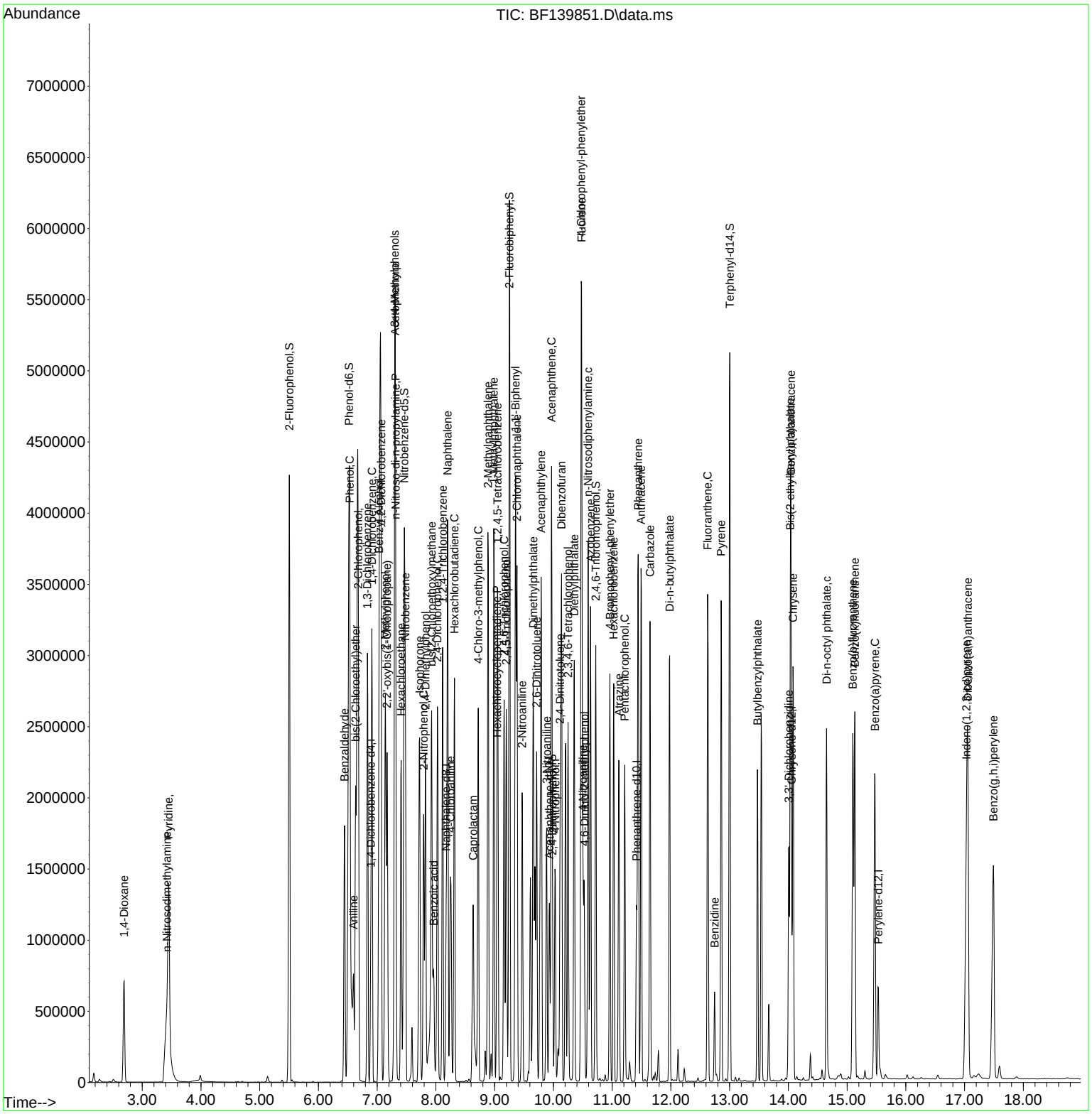
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139851.D
Acq On : 18 Oct 2024 13:46
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

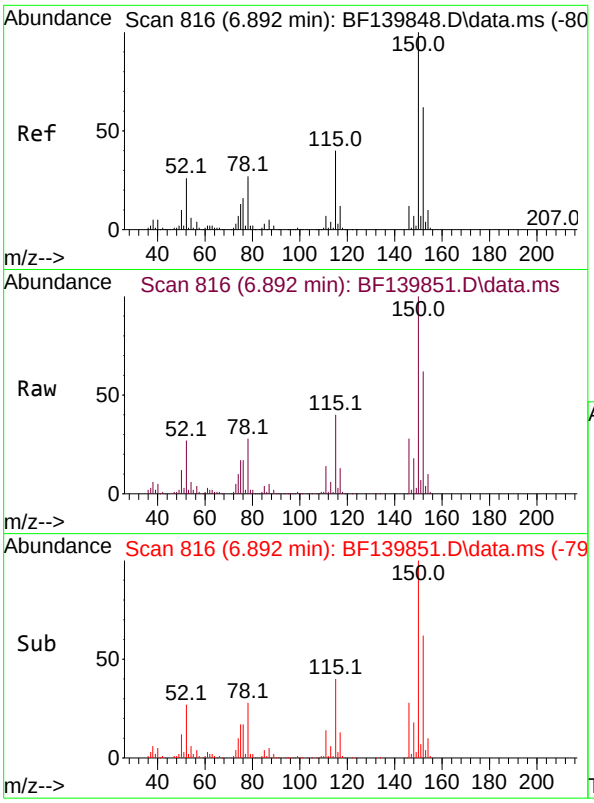
Quant Time: Oct 18 14:21:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

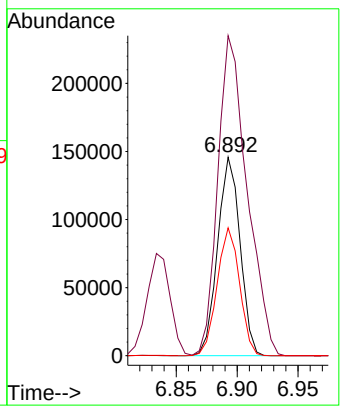




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:152 Resp: 18739

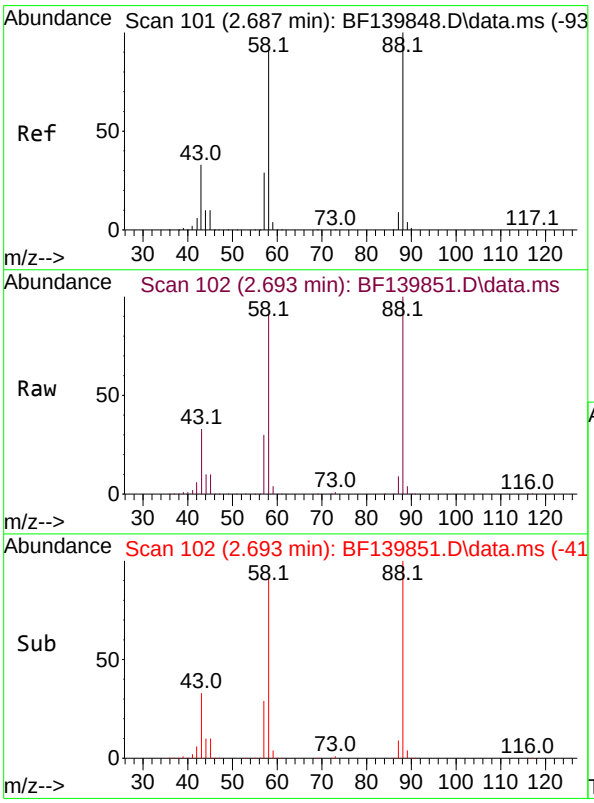
Ion	Ratio	Lower	Upper
152	100		
150	161.2	130.2	195.2
115	64.4	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

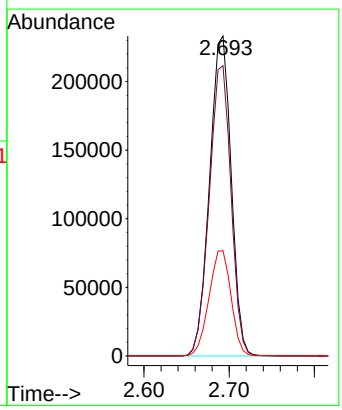
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

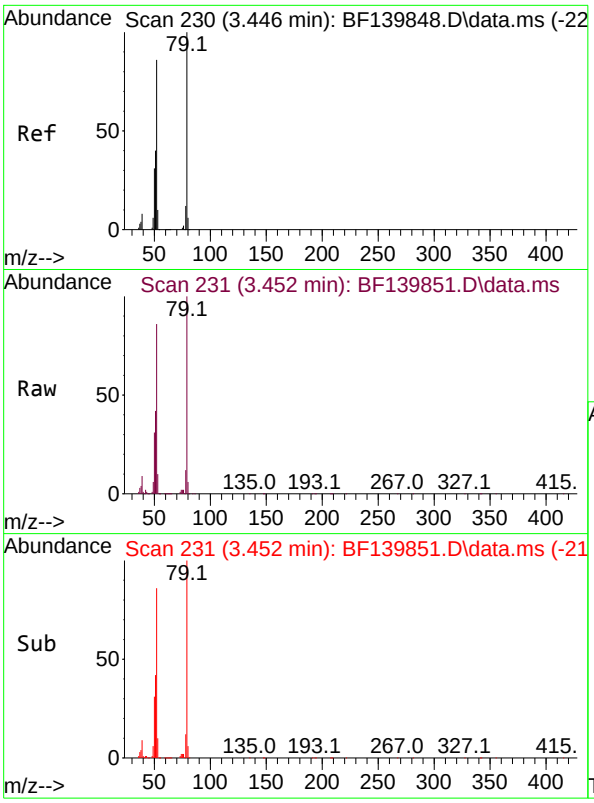


#2
1,4-Dioxane
Concen: 73.604 ng
RT: 2.693 min Scan# 102
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 88 Resp: 410806

Ion	Ratio	Lower	Upper
88	100		
58	91.2	73.3	109.9
43	33.5	27.1	40.7

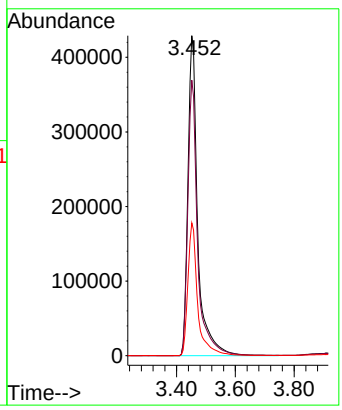




#3
Pyridine
Concen: 71.834 ng
RT: 3.452 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 79 Resp: 99377

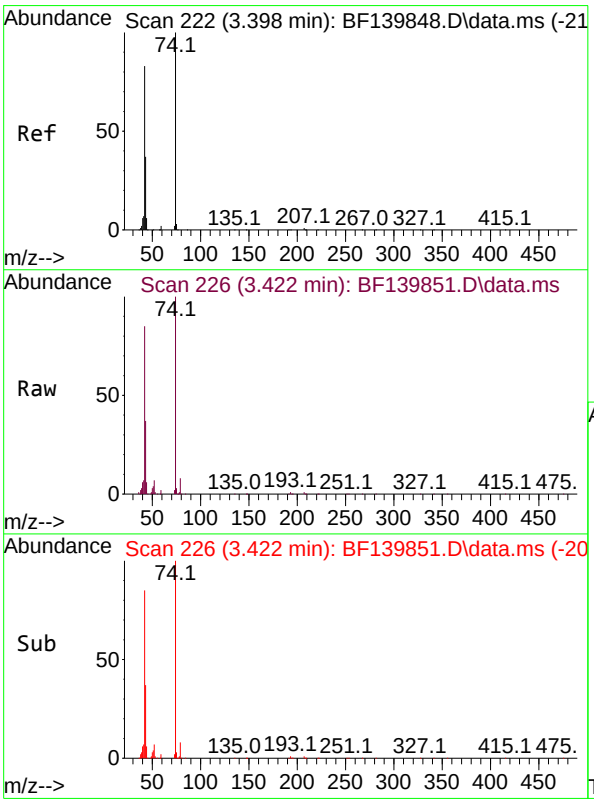
Ion	Ratio	Lower	Upper
79	100		
52	86.1	68.5	102.7
51	41.5	32.3	48.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

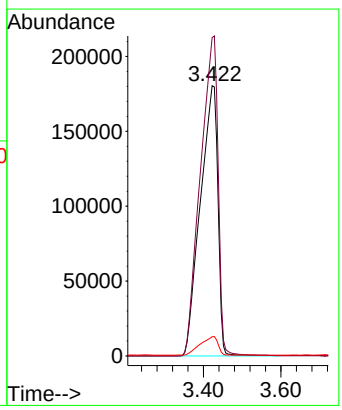
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

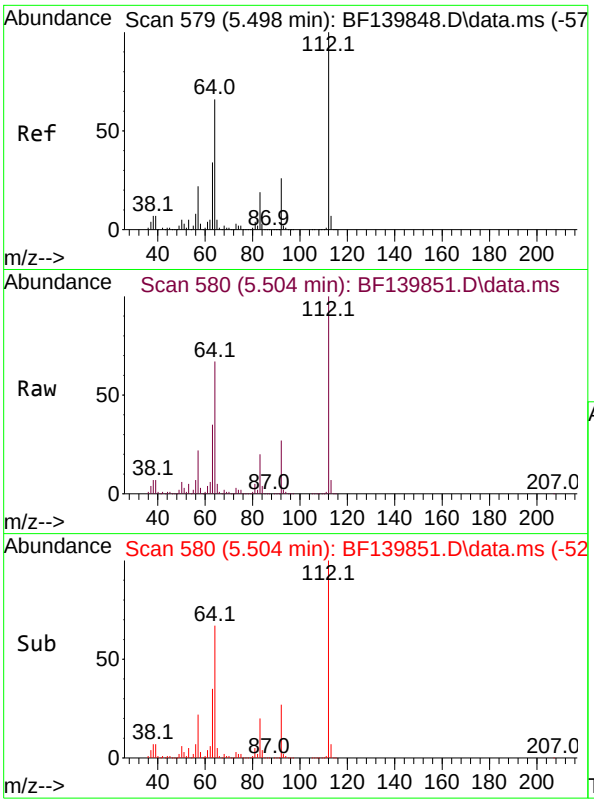


#4
n-Nitrosodimethylamine
Concen: 76.370 ng
RT: 3.422 min Scan# 226
Delta R.T. 0.024 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 42 Resp: 567647

Ion	Ratio	Lower	Upper
42	100		
74	117.8	96.2	144.4
44	7.1	6.2	9.2





#5
2-Fluorophenol
Concen: 138.491 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

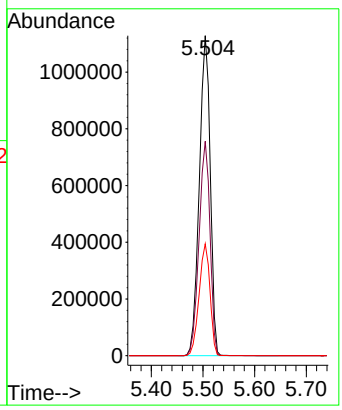
Tgt Ion:112 Resp: 165782

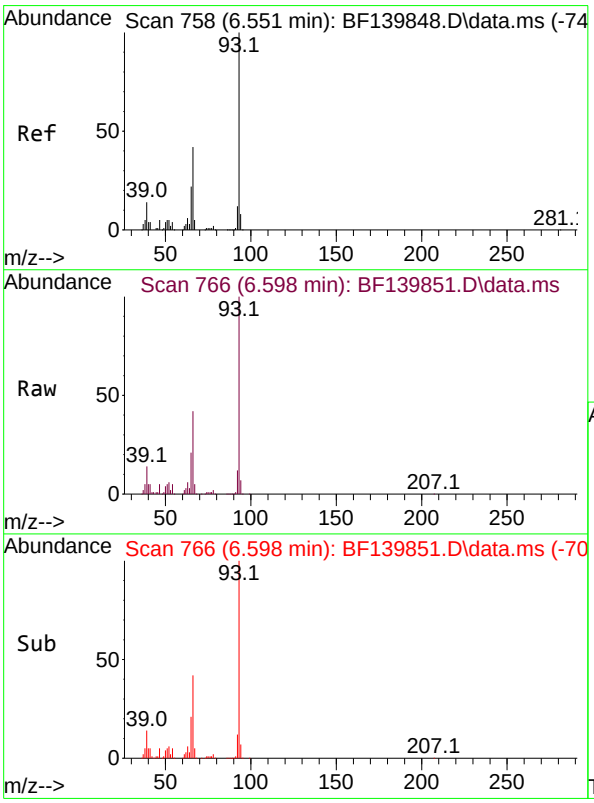
Ion	Ratio	Lower	Upper
112	100		
64	67.0	53.0	79.6
63	35.0	27.0	40.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

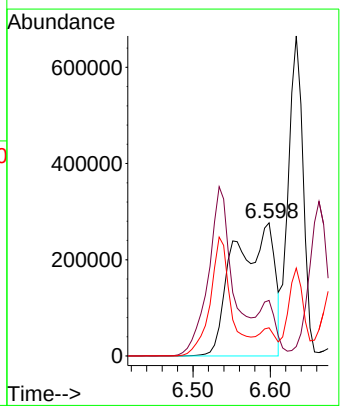


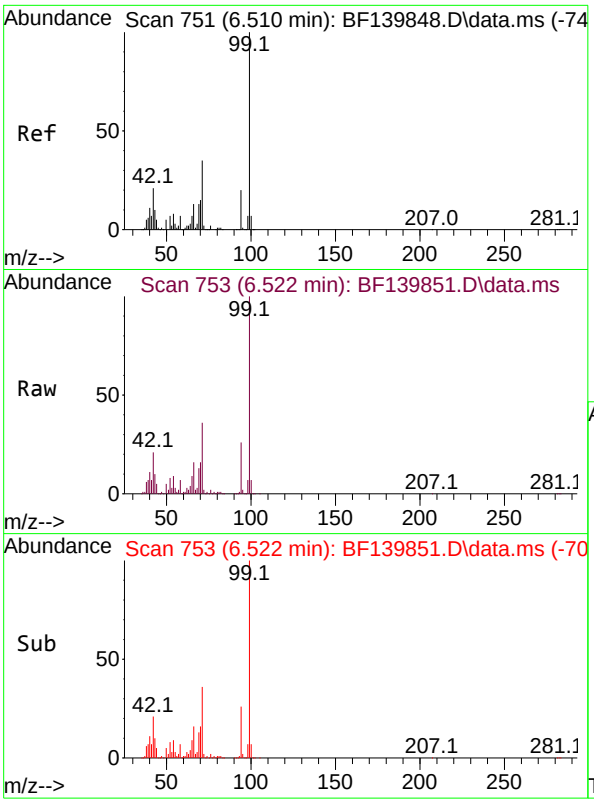


#6
Aniline
Concen: 68.680 ng m
RT: 6.598 min Scan# 766
Delta R.T. 0.047 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 93 Resp: 992375

Ion	Ratio	Lower	Upper
93	100		
66	41.8	34.0	51.0
65	21.1	17.4	26.0

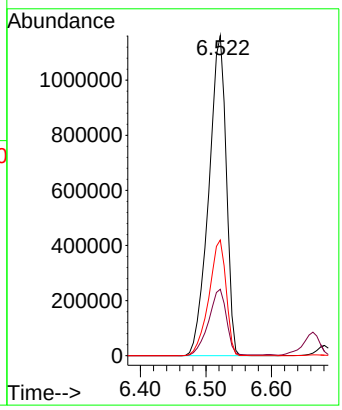




#7
Phenol-d6
Concen: 138.492 ng
RT: 6.522 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 99 Resp: 214717

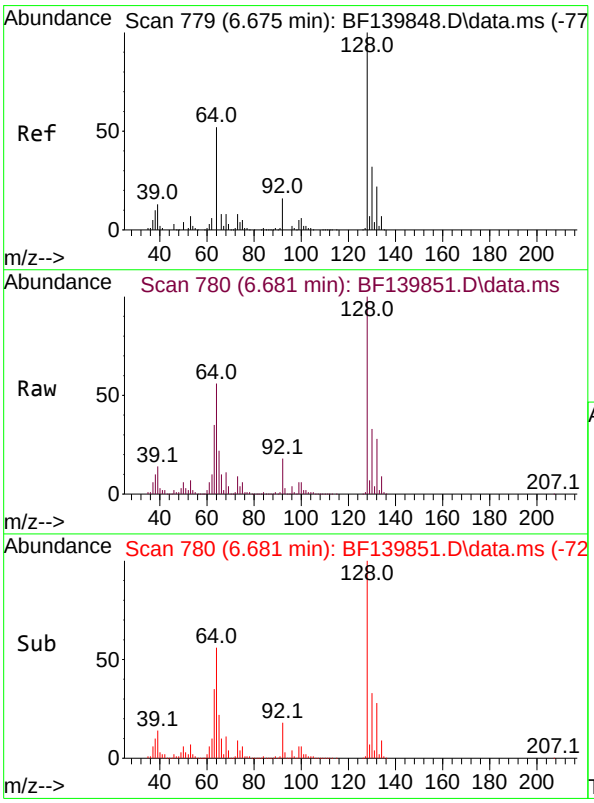
Ion	Ratio	Lower	Upper
99	100		
42	20.8	16.7	25.1
71	36.1	27.7	41.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

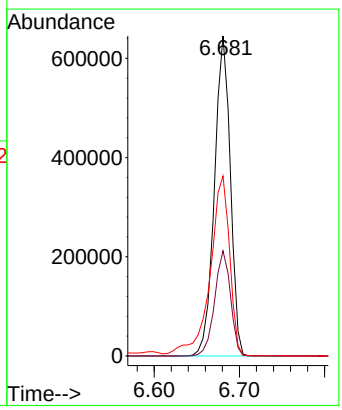
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

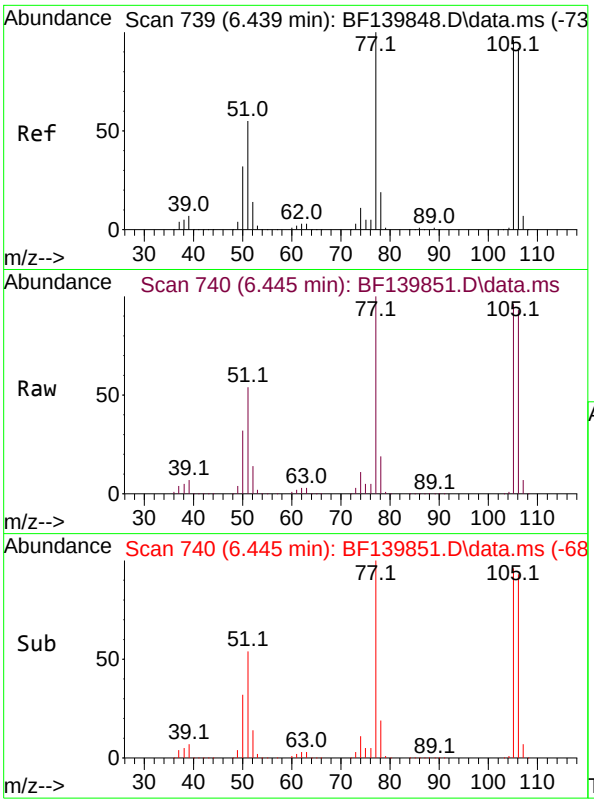


#8
2-Chlorophenol
Concen: 68.333 ng
RT: 6.681 min Scan# 780
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:128 Resp: 836233

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.3	52.3
64	56.2	34.6	74.6

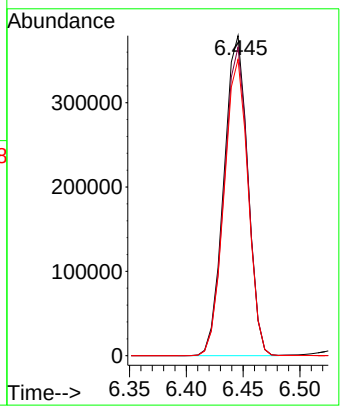




#9
Benzaldehyde
Concen: 63.632 ng
RT: 6.445 min Scan# 74
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 77 Resp: 55498

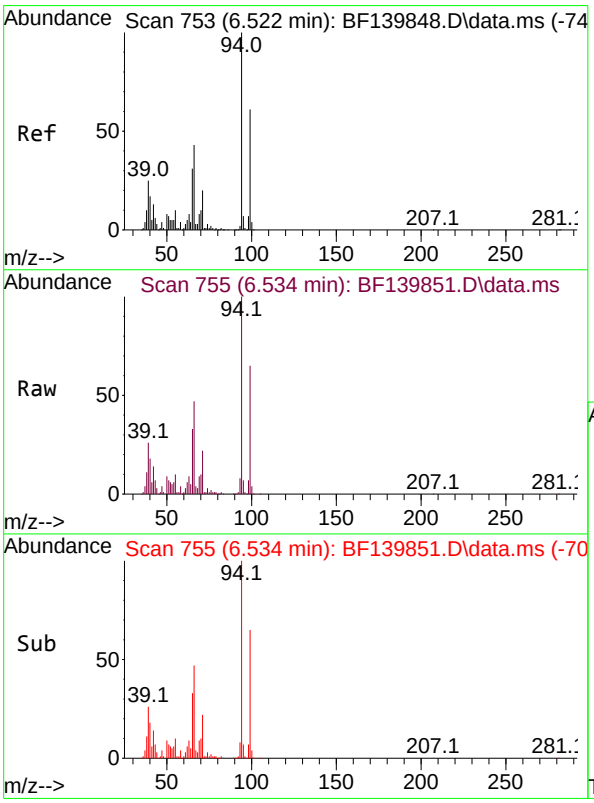
Ion	Ratio	Lower	Upper
77	100		
105	96.4	75.5	115.5
106	92.6	71.7	111.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

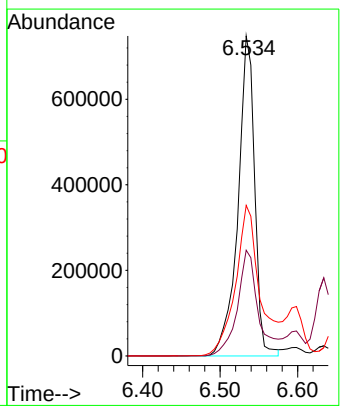
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

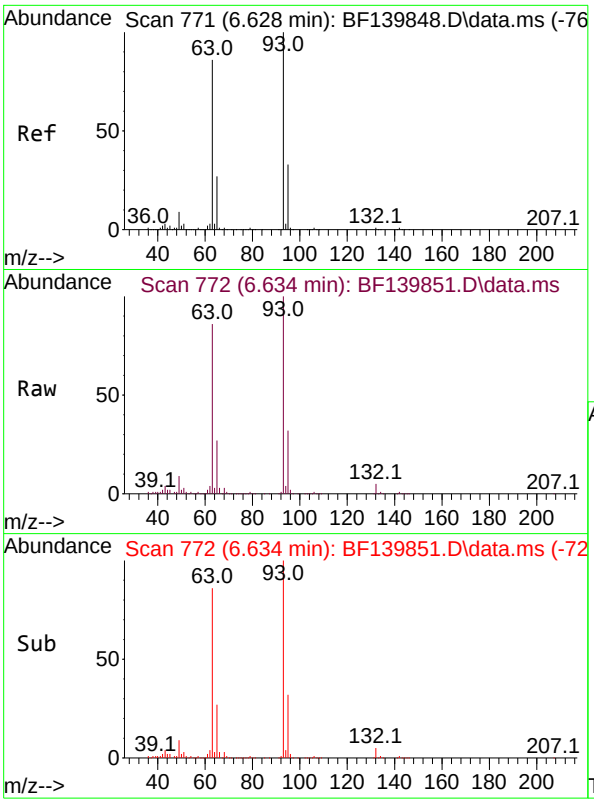


#10
Phenol
Concen: 69.172 ng
RT: 6.534 min Scan# 755
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 94 Resp: 1125558

Ion	Ratio	Lower	Upper
94	100		
65	33.1	11.1	51.1
66	47.1	22.7	62.7

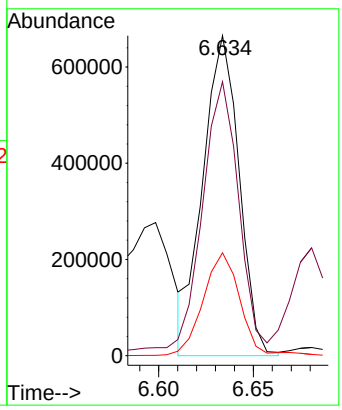




#11
bis(2-Chloroethyl)ether
Concen: 71.780 ng
RT: 6.634 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 93 Resp: 88678

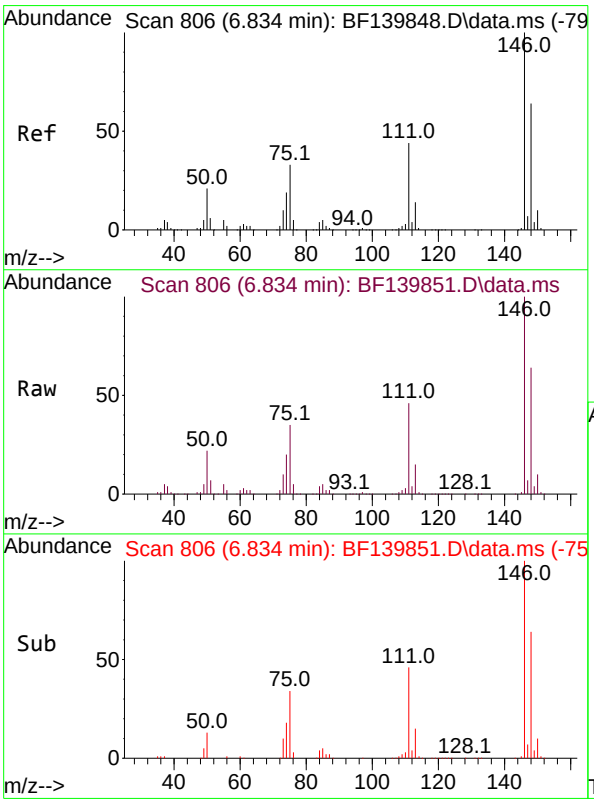
Ion	Ratio	Lower	Upper
93	100		
63	85.6	65.0	105.0
95	32.2	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

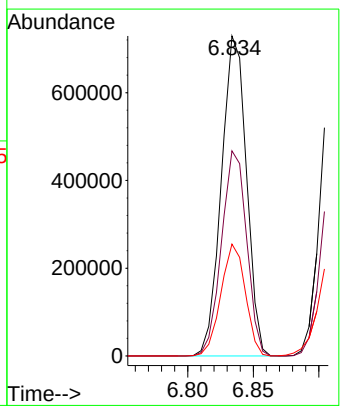
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

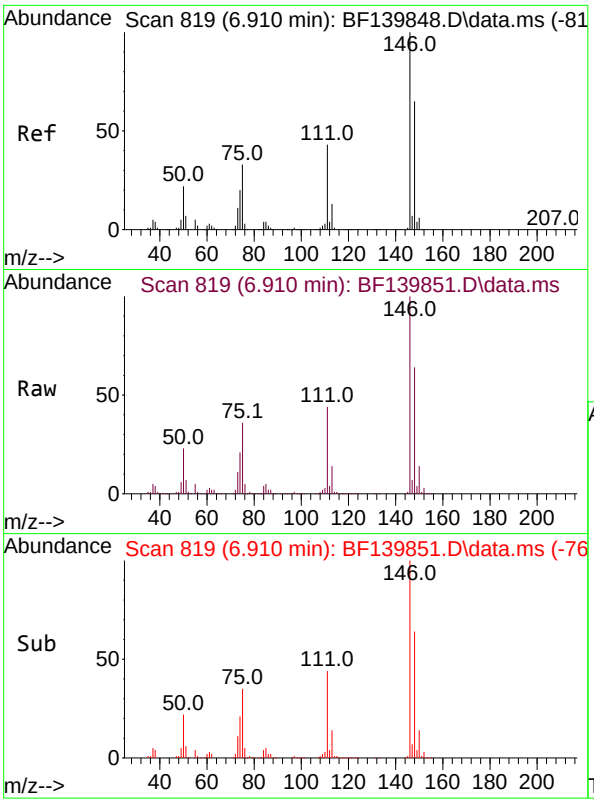


#12
1,3-Dichlorobenzene
Concen: 69.024 ng
RT: 6.834 min Scan# 806
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:146 Resp: 969627

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.0	76.4
75	35.0	26.4	39.6

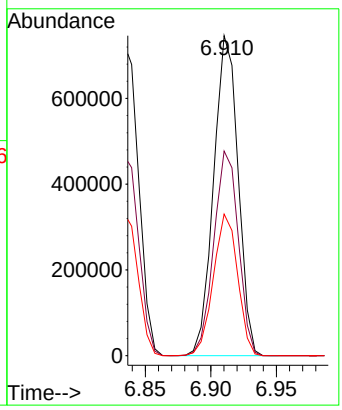




#13
1,4-Dichlorobenzene
Concen: 68.978 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:146 Resp: 96808

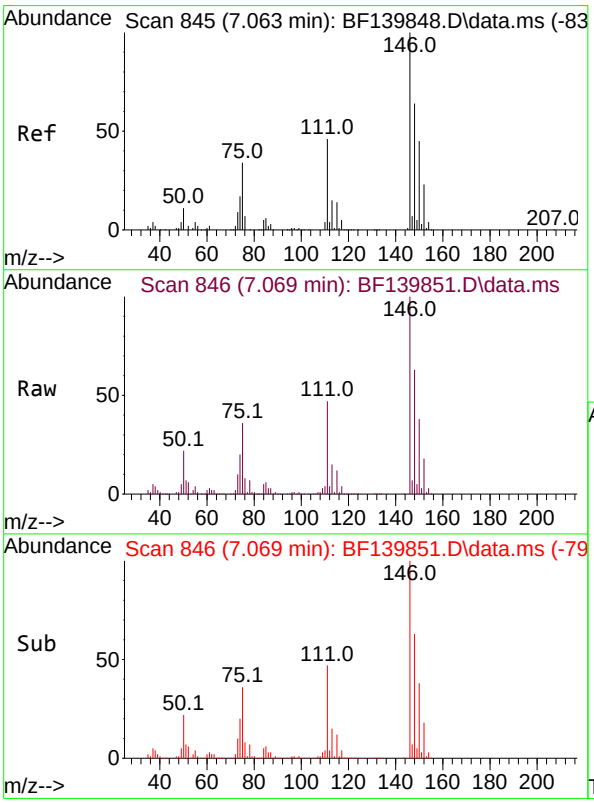
Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.8	77.8
111	44.3	34.6	51.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

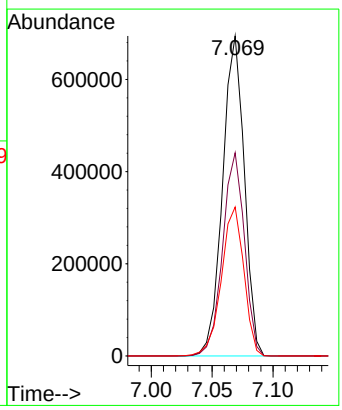
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

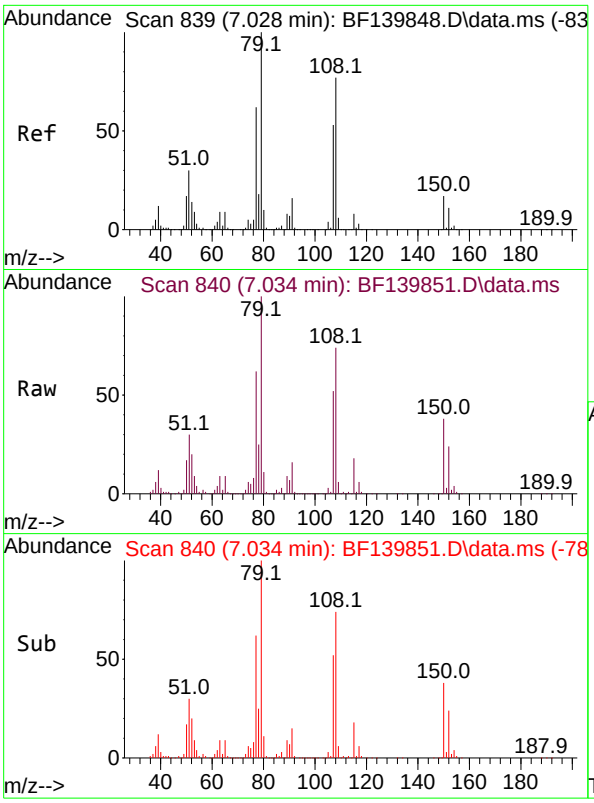


#14
1,2-Dichlorobenzene
Concen: 65.758 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:146 Resp: 861333

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.4	77.2
111	46.5	36.7	55.1





#15
Benzyl Alcohol
Concen: 70.616 ng
RT: 7.034 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

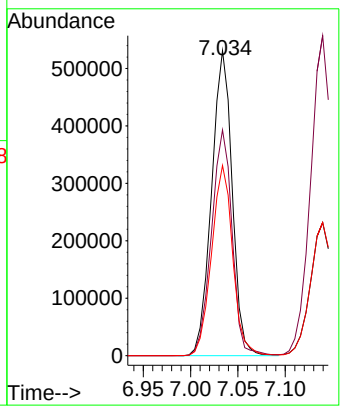
Tgt Ion: 79 Resp: 80310

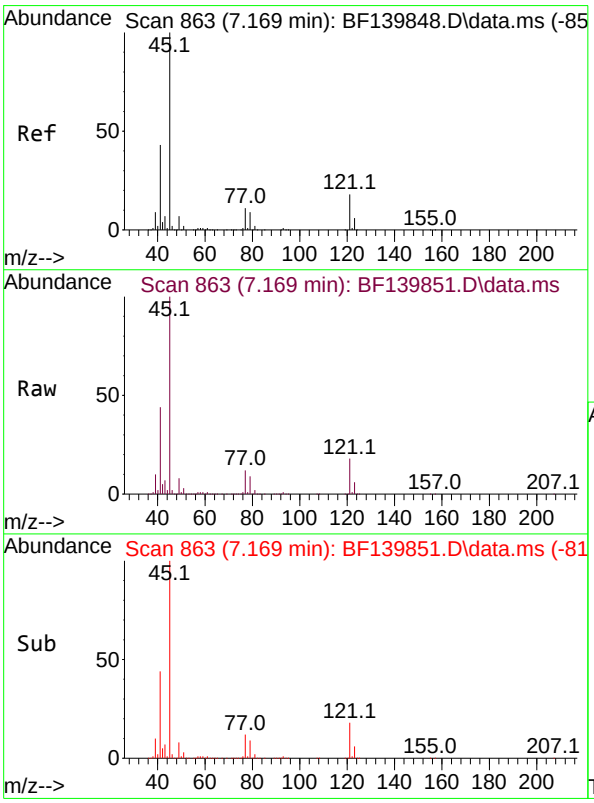
Ion	Ratio	Lower	Upper
79	100		
108	74.0	61.4	92.0
77	62.3	49.9	74.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

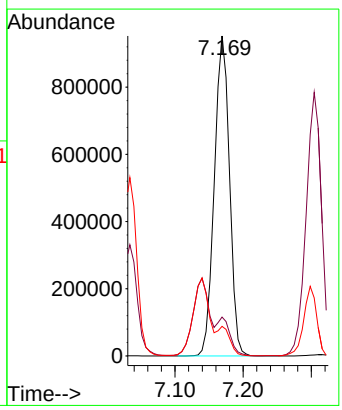


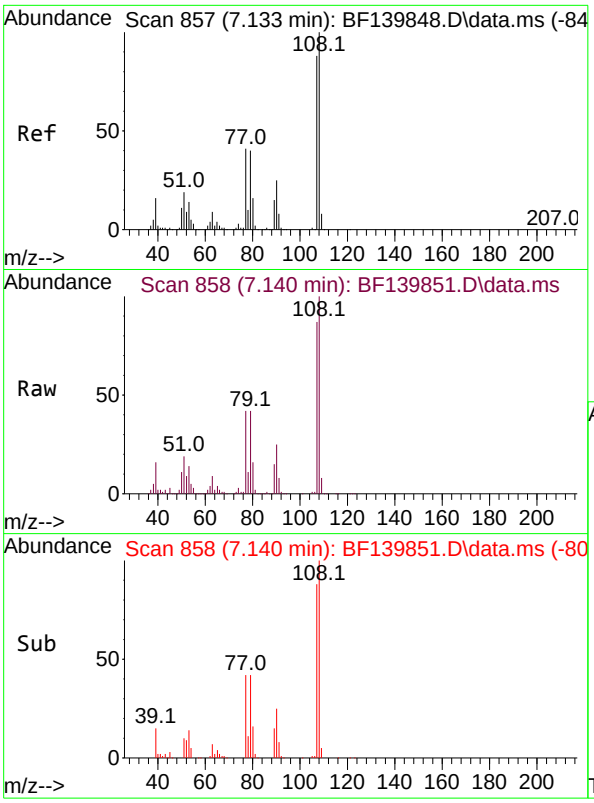


#16
2,2'-oxybis(1-Chloropropane)
Concen: 69.886 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 45 Resp: 1472196

Ion	Ratio	Lower	Upper
45	100		
77	12.2	0.0	31.5
79	9.2	0.0	29.1

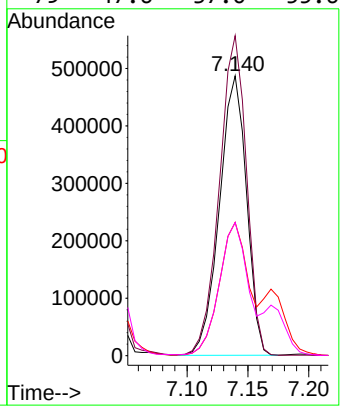




#17
2-Methylphenol
Concen: 72.109 ng
RT: 7.140 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:107 Resp: 75245

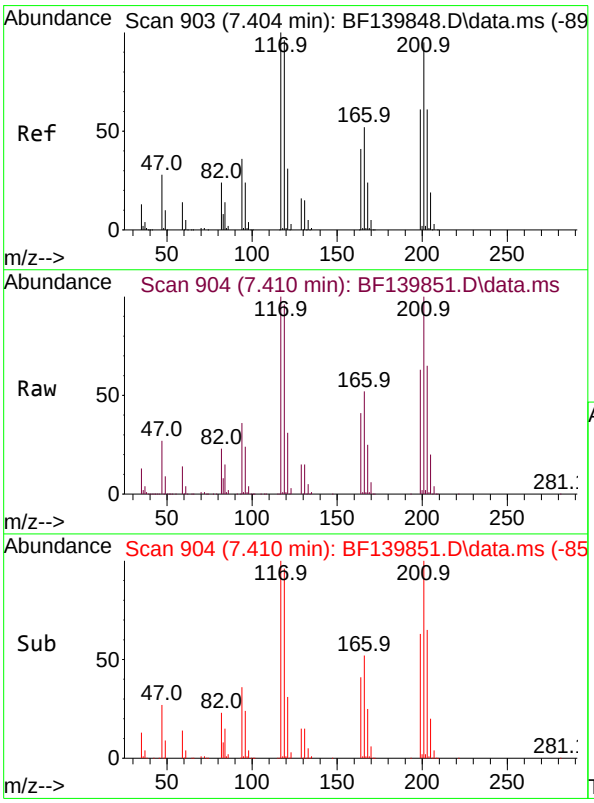
Ion	Ratio	Lower	Upper
107	100		
108	114.3	91.3	136.9
77	47.6	37.1	55.7
79	47.6	37.0	55.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

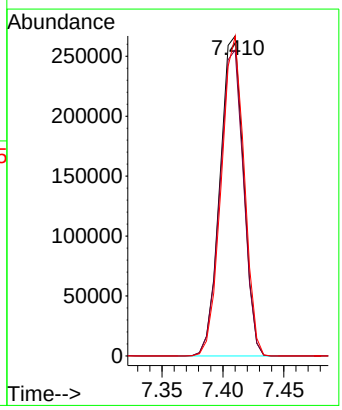
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

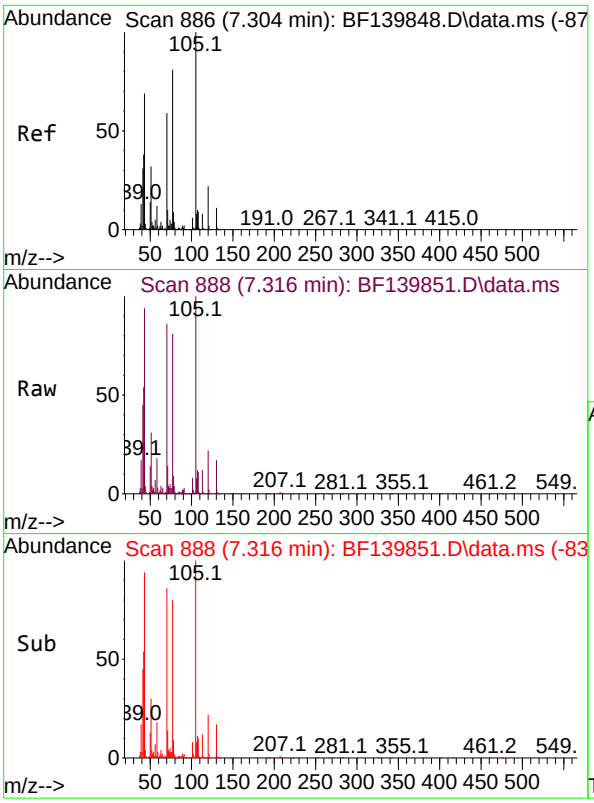


#18
Hexachloroethane
Concen: 71.459 ng
RT: 7.410 min Scan# 904
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:117 Resp: 357637

Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.0	115.4
201	99.9	76.2	114.4

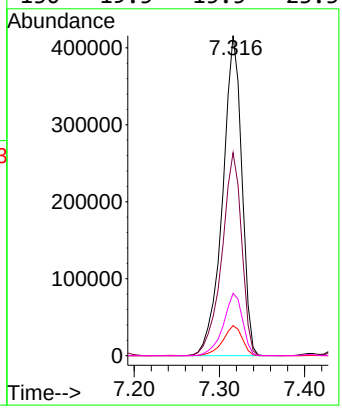




#19
n-Nitroso-di-n-propylamine
Concen: 69.238 ng
RT: 7.316 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 70 Resp: 65104

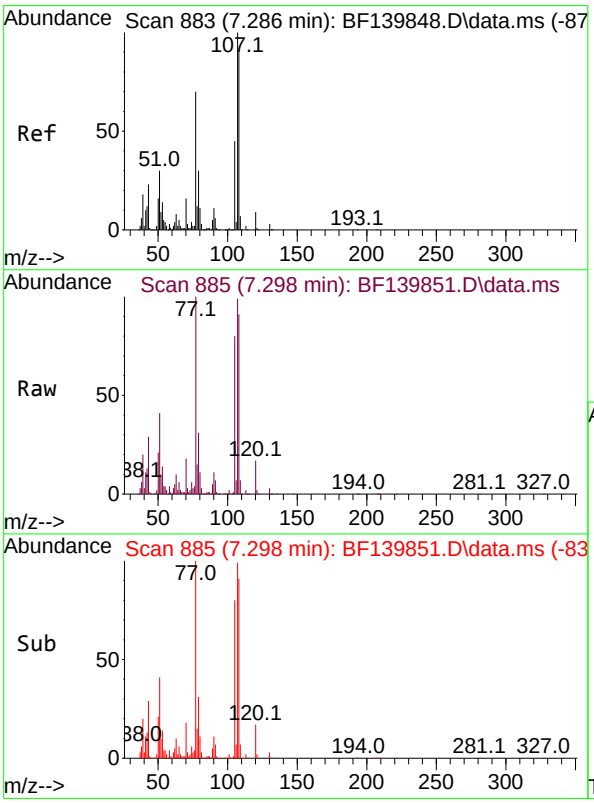
Ion	Ratio	Lower	Upper
70	100		
42	63.4	51.5	77.3
101	9.4	7.5	11.3
130	19.5	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

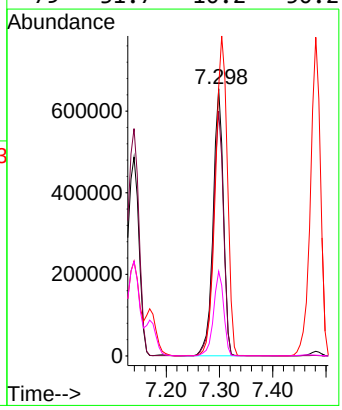
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

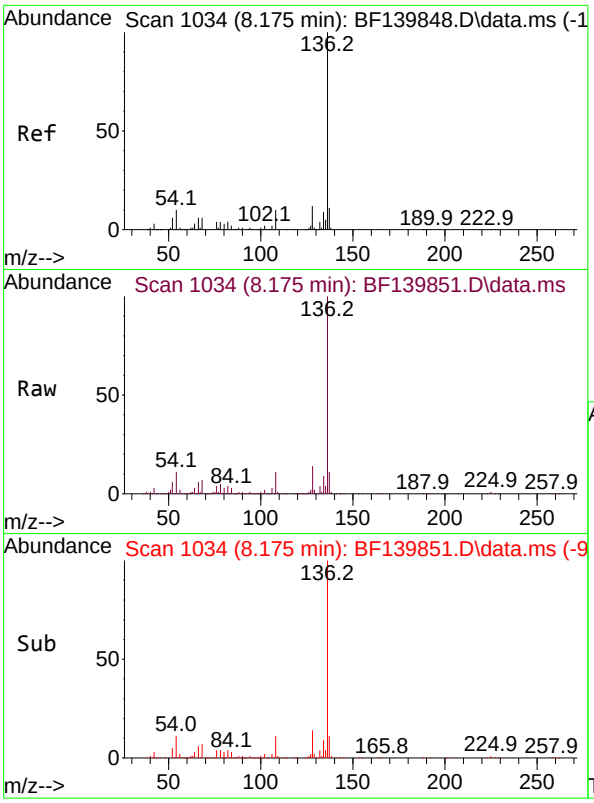


#20
3+4-Methylphenols
Concen: 65.856 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:107 Resp: 878987

Ion	Ratio	Lower	Upper
107	100		
108	91.7	69.8	109.8
77	100.5	50.5	90.5#
79	31.7	10.2	50.2

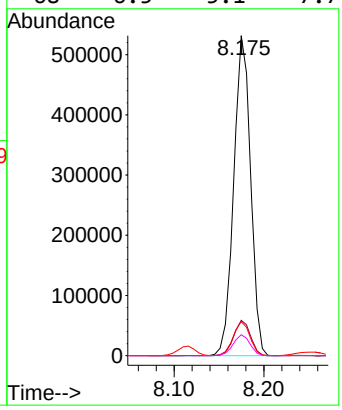




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:136 Resp: 69328

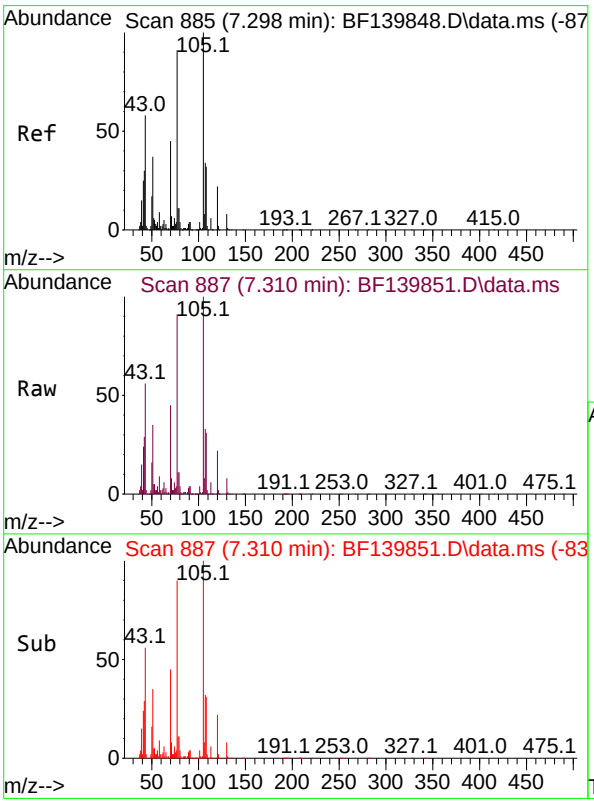
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	10.6	8.4	12.6
68	6.5	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

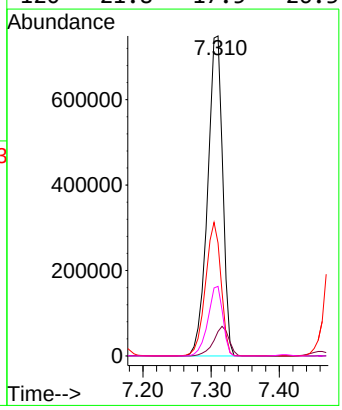
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

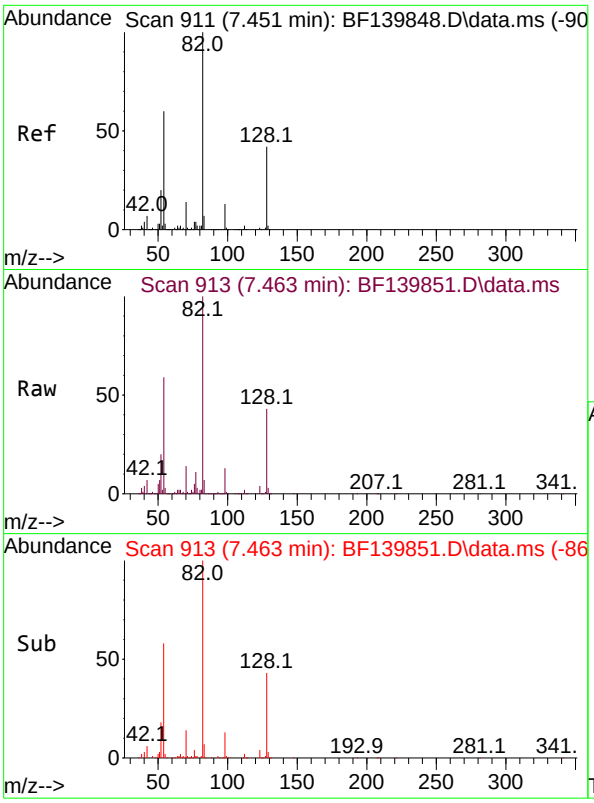


#22
Acetophenone
Concen: 67.682 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:105 Resp: 1149288

Ion	Ratio	Lower	Upper
105	100		
71	7.6	5.9	8.9
51	35.3	29.4	44.2
120	21.8	17.5	26.3





#23
Nitrobenzene-d5
Concen: 151.683 ng
RT: 7.463 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

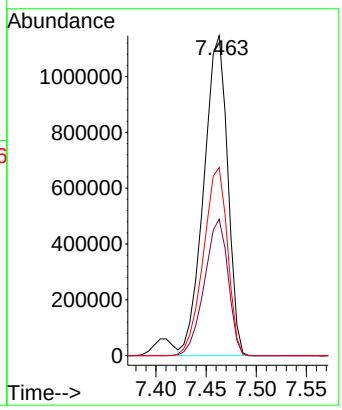
Tgt Ion: 82 Resp: 189737

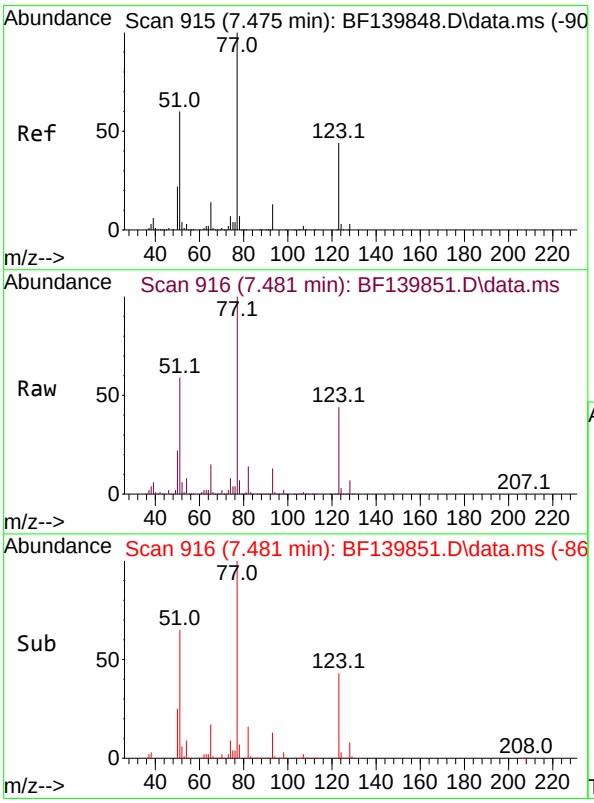
Ion	Ratio	Lower	Upper
82	100		
128	42.6	33.4	50.0
54	58.8	47.8	71.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

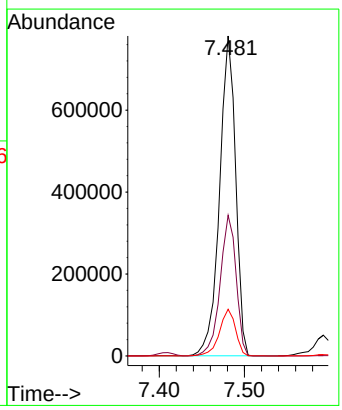


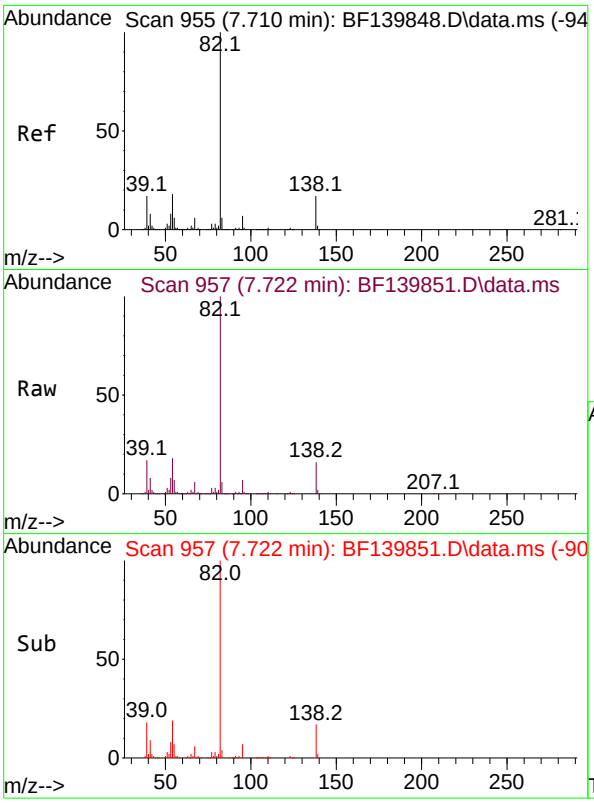


#24
Nitrobenzene
Concen: 74.779 ng
RT: 7.481 min Scan# 916
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 77 Resp: 1025571

Ion	Ratio	Lower	Upper
77	100		
123	44.0	35.7	53.5
65	14.6	11.5	17.3





#25
Isophorone
Concen: 74.436 ng
RT: 7.722 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

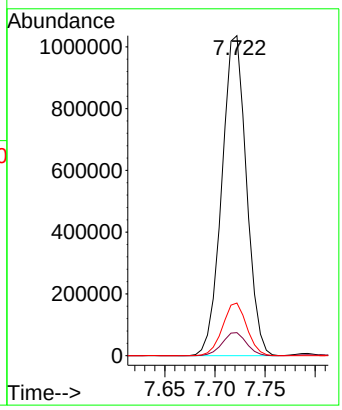
Tgt Ion: 82 Resp: 176723

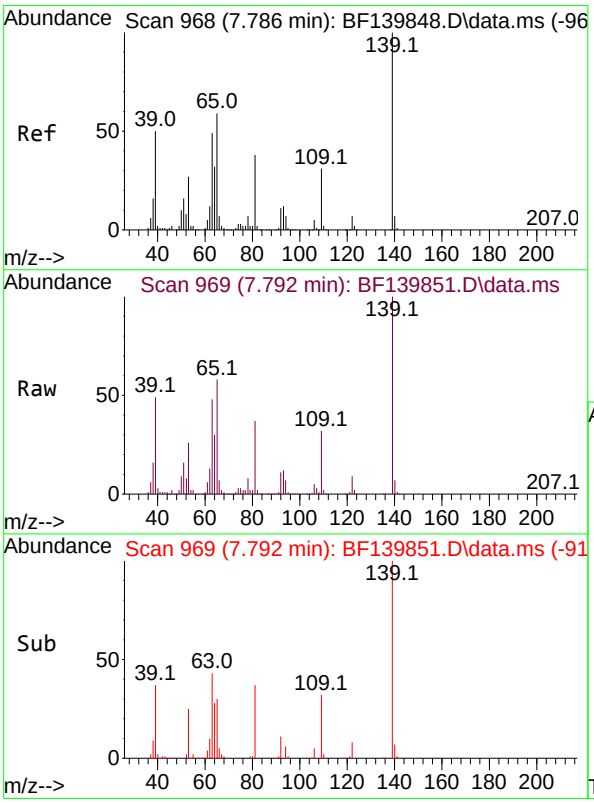
Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.5	8.3
138	16.5	13.2	19.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

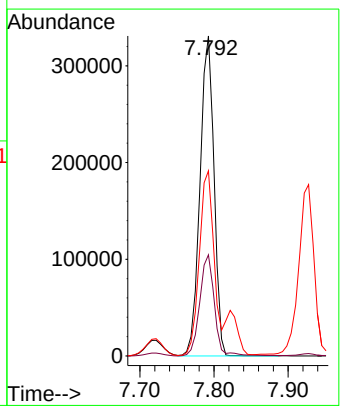


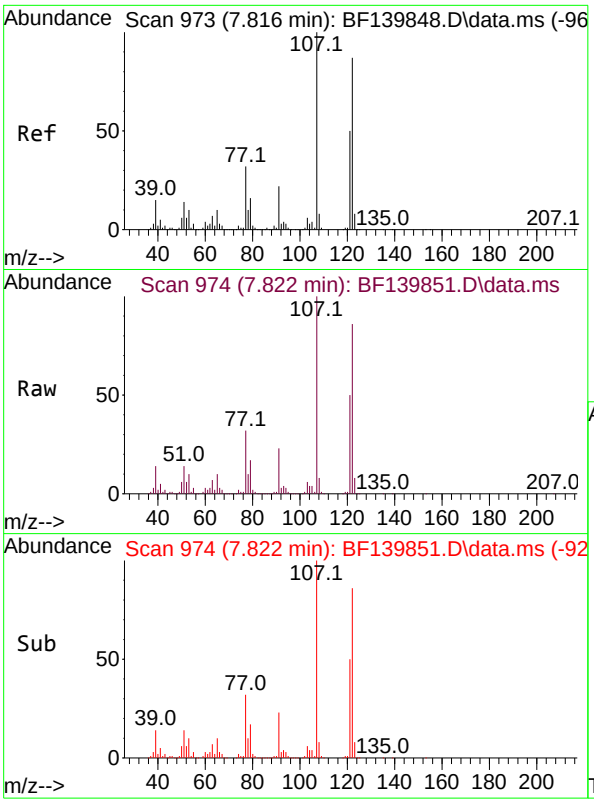


#26
2-Nitrophenol
Concen: 84.029 ng
RT: 7.792 min Scan# 969
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:139 Resp: 434755

Ion	Ratio	Lower	Upper
139	100		
109	31.6	25.1	37.7
65	57.8	47.5	71.3

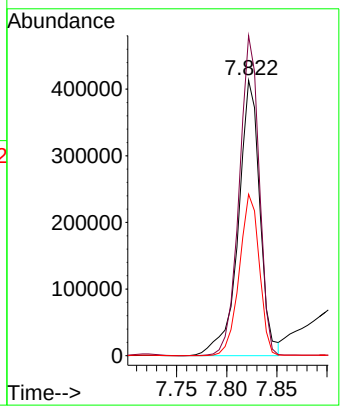




#27
2,4-Dimethylphenol
Concen: 71.765 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:122 Resp: 61913

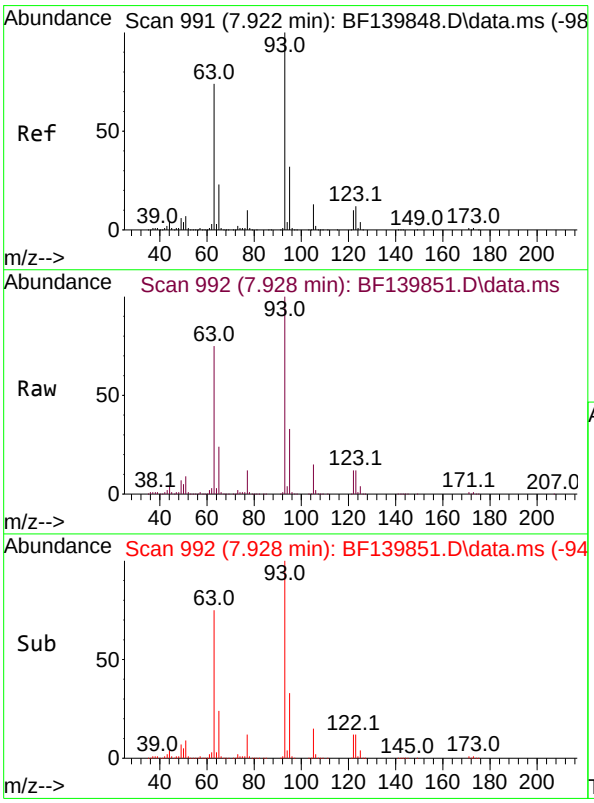
Ion	Ratio	Lower	Upper
122	100		
107	116.2	91.9	137.9
121	58.6	46.2	69.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

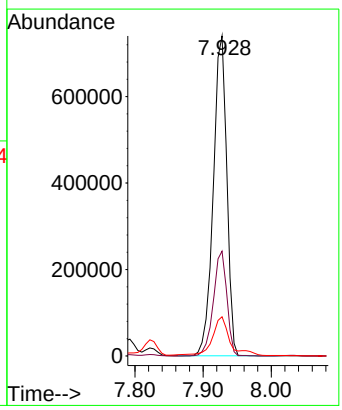
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

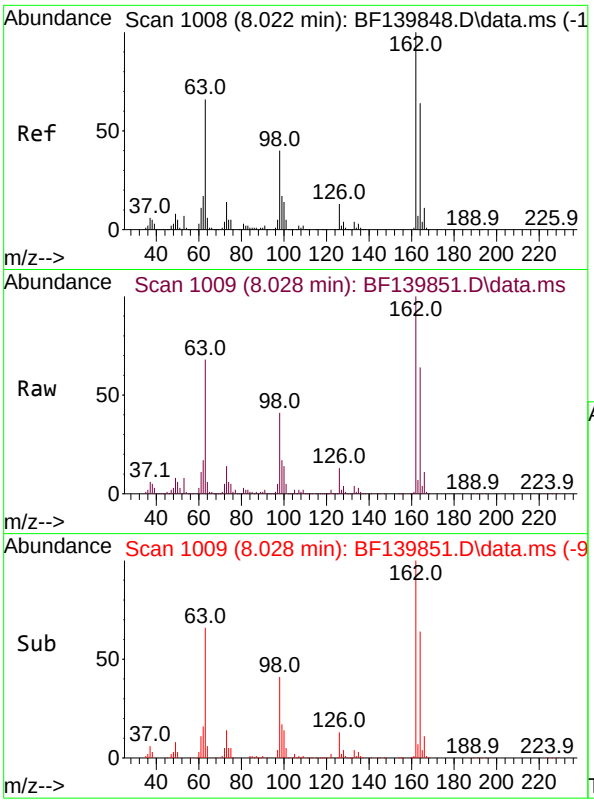


#28
bis(2-Chloroethoxy)methane
Concen: 71.081 ng
RT: 7.928 min Scan# 992
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 93 Resp: 1022457

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.0	39.0
123	12.2	9.8	14.8





#29
2,4-Dichlorophenol
Concen: 72.445 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

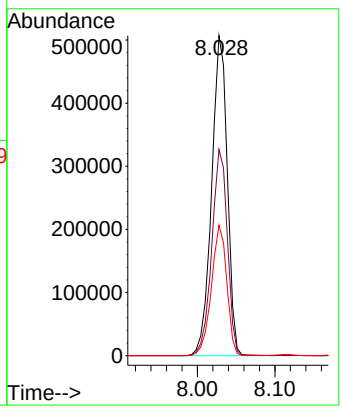
Tgt Ion:162 Resp: 71189

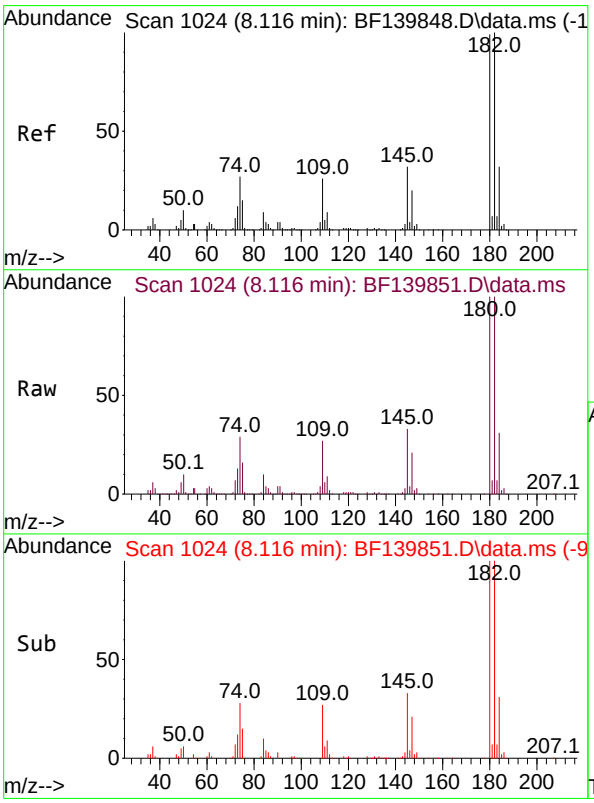
Ion	Ratio	Lower	Upper
162	100		
164	64.5	43.9	83.9
98	40.8	19.9	59.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

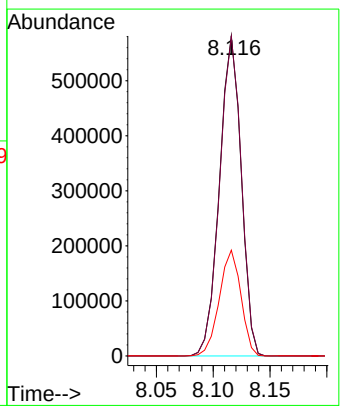


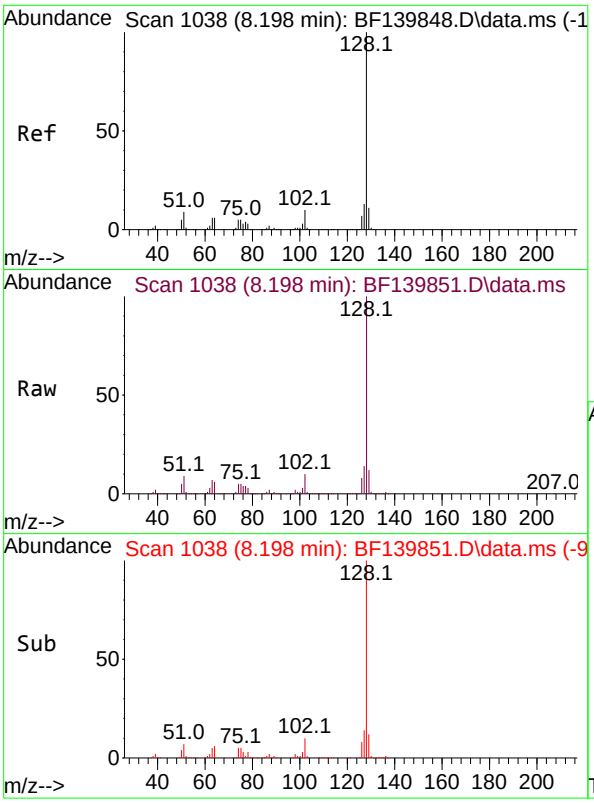


#30
1,2,4-Trichlorobenzene
Concen: 71.194 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:180 Resp: 774108

Ion	Ratio	Lower	Upper
180	100		
182	99.8	80.5	120.7
145	33.0	25.4	38.0

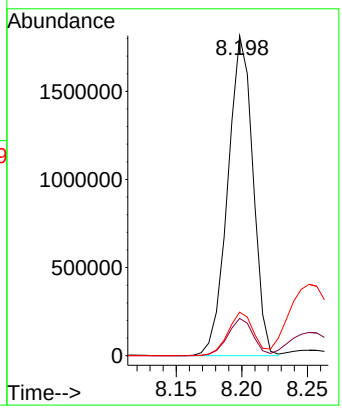




#31
Naphthalene
Concen: 67.894 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:128 Resp: 242757

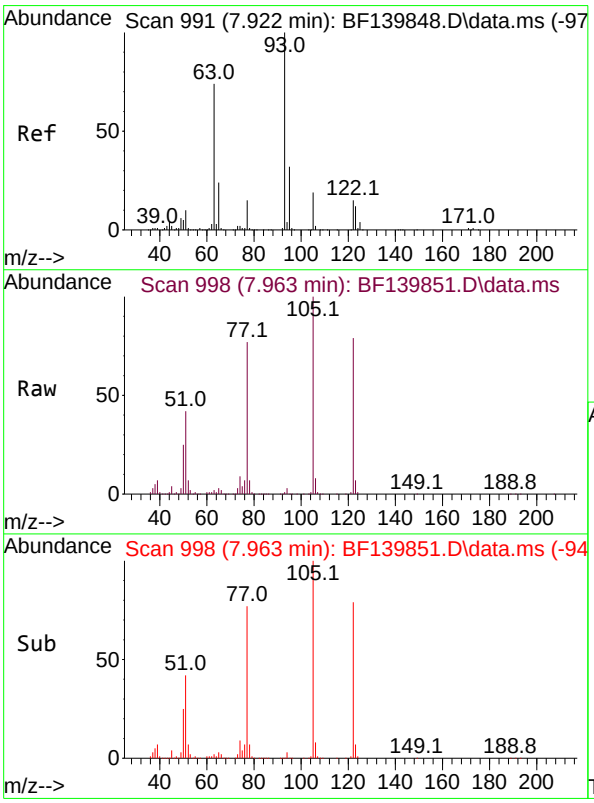
Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.9	13.3
127	13.6	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

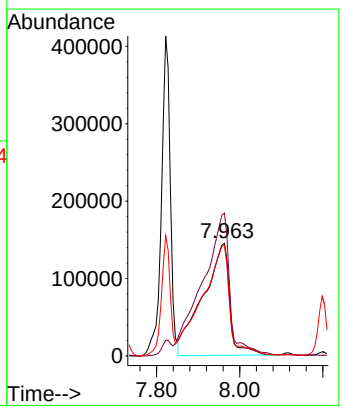
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

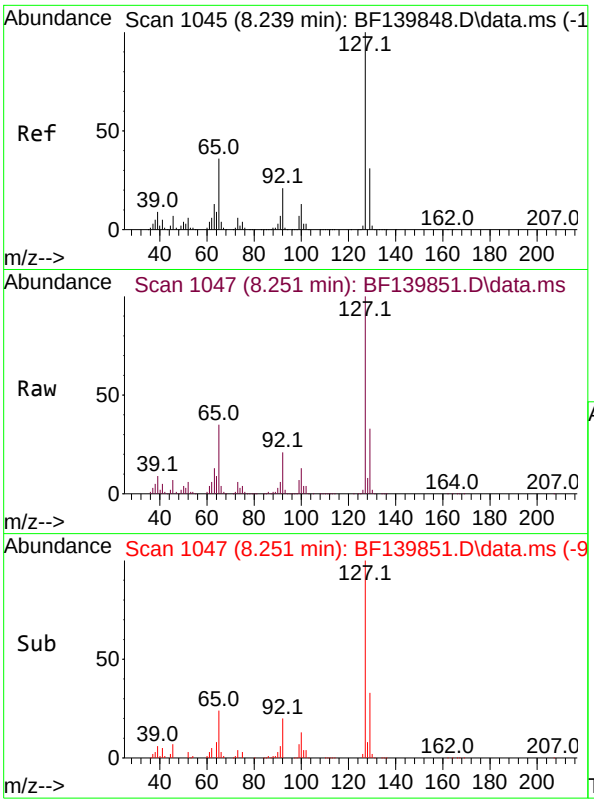


#32
Benzoic acid
Concen: 86.634 ng
RT: 7.963 min Scan# 998
Delta R.T. 0.041 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:122 Resp: 651887

Ion	Ratio	Lower	Upper
122	100		
105	126.8	107.6	147.6
77	98.1	80.2	120.2

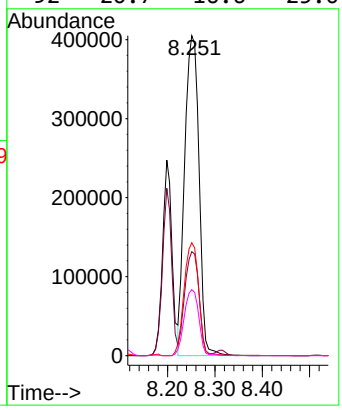




#33
4-Chloroaniline
Concen: 69.684 ng
RT: 8.251 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:127 Resp: 84960

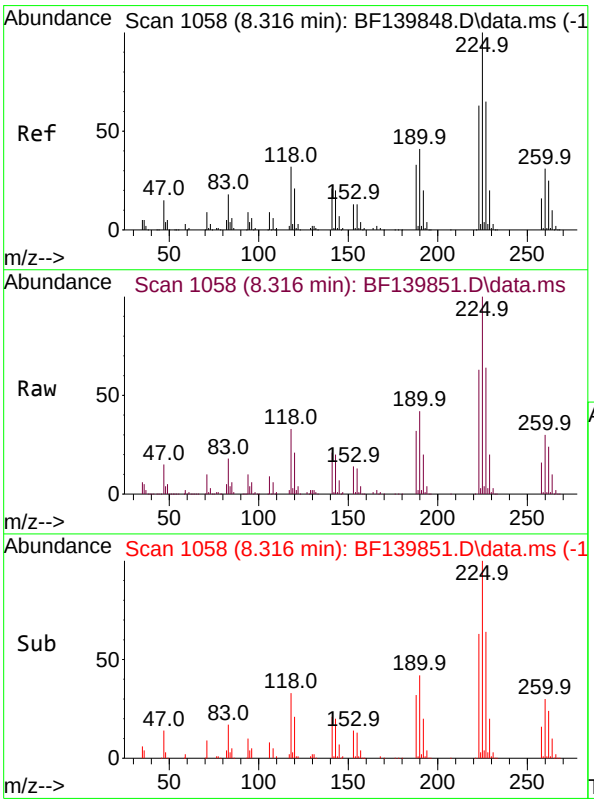
Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.4	38.2
65	35.3	28.4	42.6
92	20.7	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

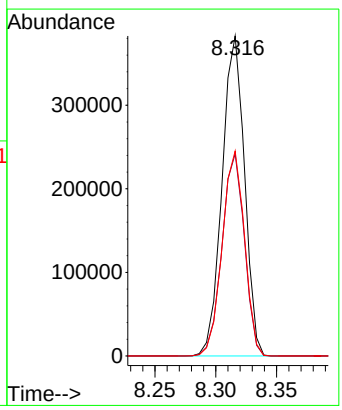
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

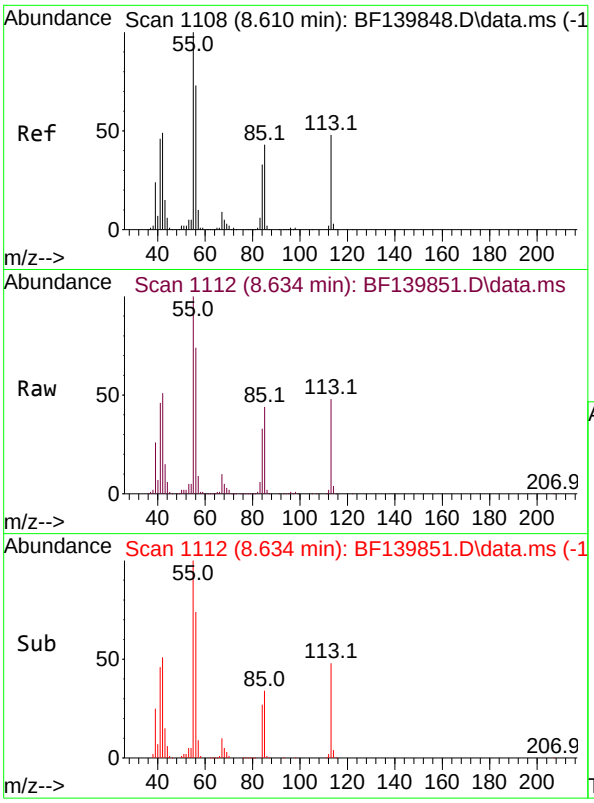


#34
Hexachlorobutadiene
Concen: 71.753 ng
RT: 8.316 min Scan# 1058
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:225 Resp: 490203

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.6	76.0
227	64.0	51.8	77.8





#35
Caprolactam
Concen: 76.550 ng
RT: 8.634 min Scan# 11
Delta R.T. 0.024 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

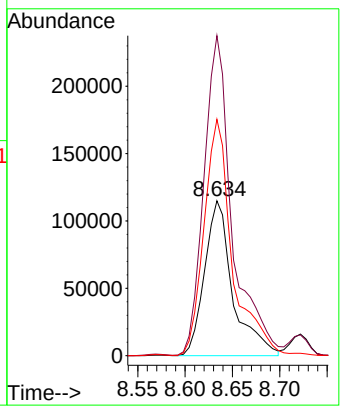
Tgt Ion:113 Resp: 23918

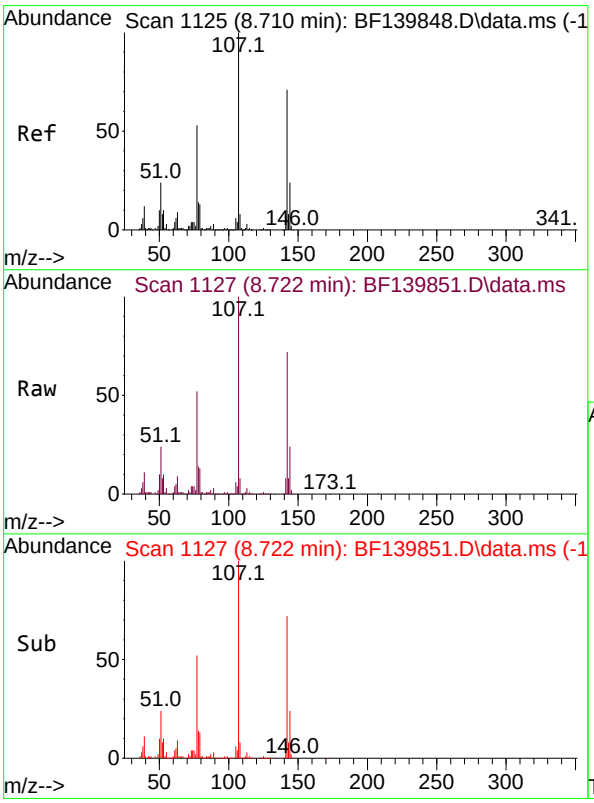
Ion	Ratio	Lower	Upper
113	100		
55	206.7	189.2	229.2
56	152.7	132.5	172.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

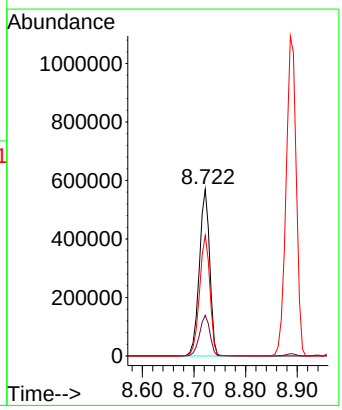


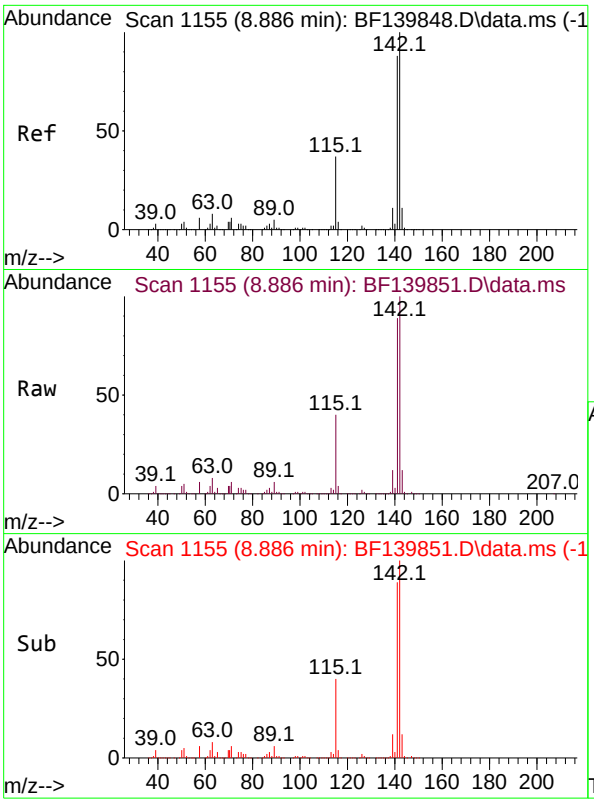


#36
4-Chloro-3-methylphenol
Concen: 73.031 ng
RT: 8.722 min Scan# 1127
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:107 Resp: 794640

Ion	Ratio	Lower	Upper
107	100		
144	24.4	19.1	28.7
142	72.3	57.2	85.8





#37
2-Methylnaphthalene
Concen: 67.944 ng
RT: 8.886 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

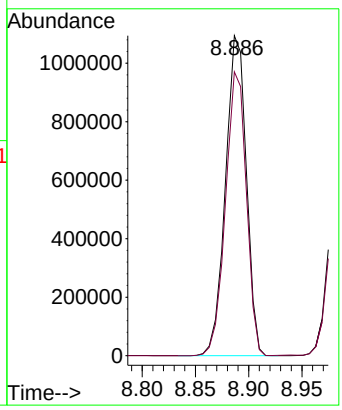
Tgt Ion:142 Resp: 148784

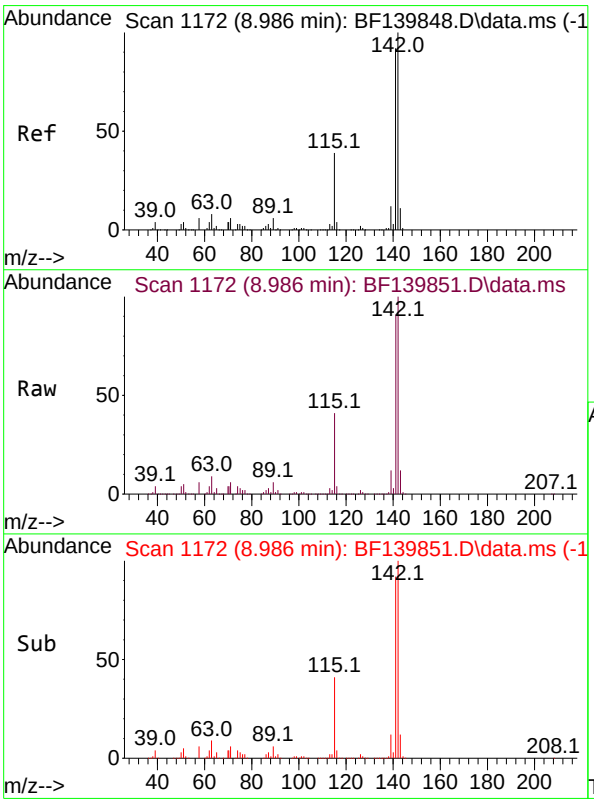
Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

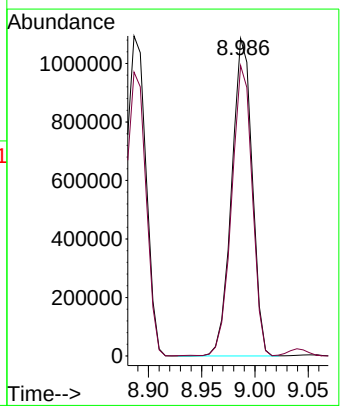


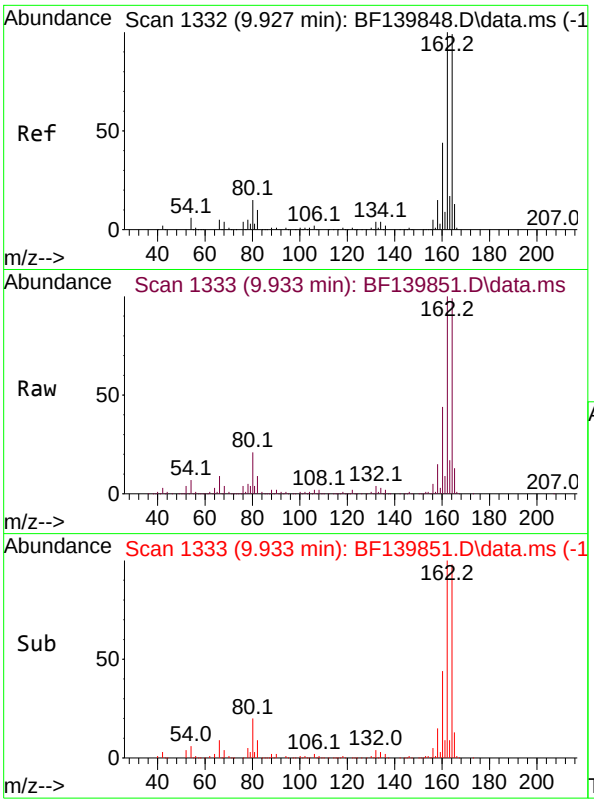


#38
1-Methylnaphthalene
Concen: 67.858 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:142 Resp: 1457890

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.5	110.3

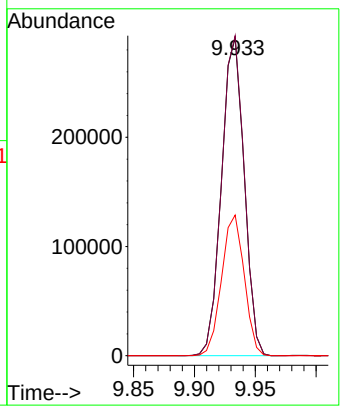




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:164 Resp: 37772

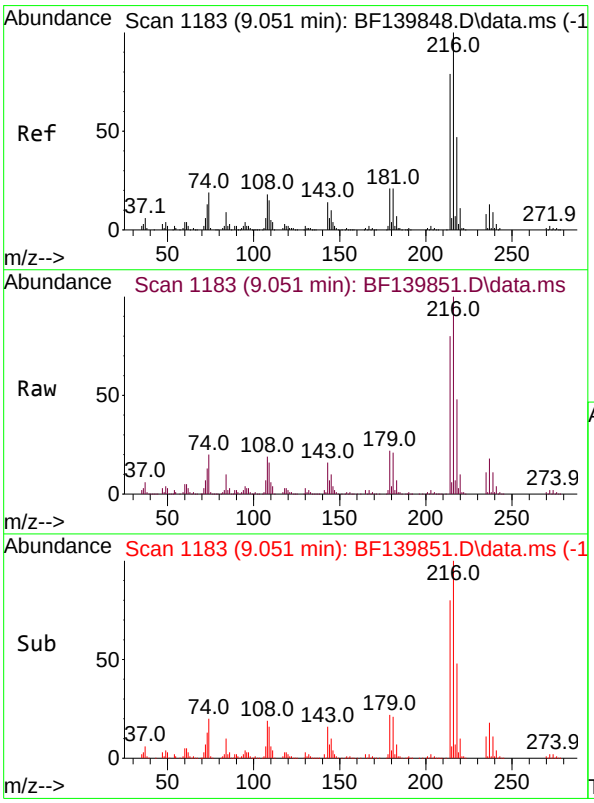
Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.0	121.4
160	44.3	35.4	53.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

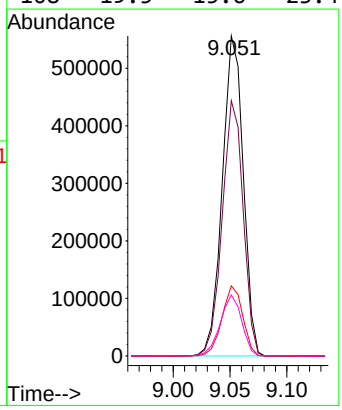
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

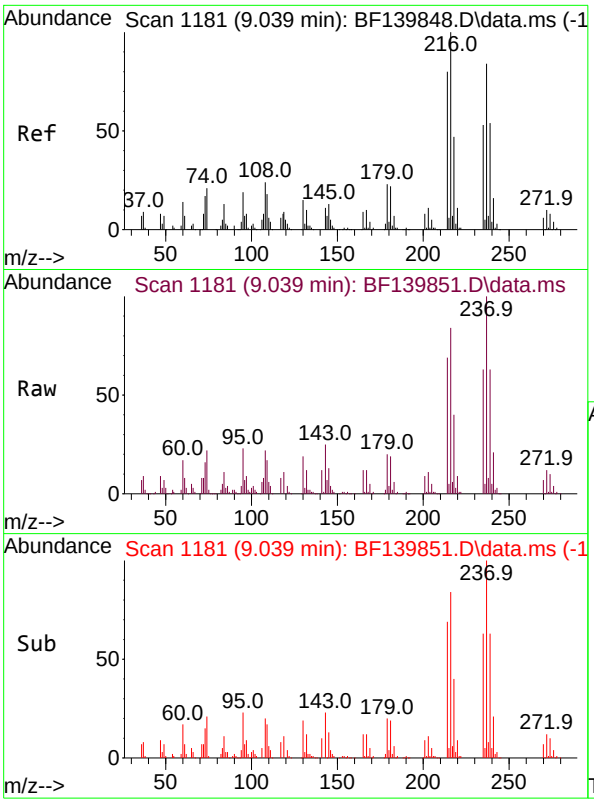


#40
1,2,4,5-Tetrachlorobenzene
Concen: 69.962 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:216 Resp: 712936

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.4	95.0
179	21.7	17.2	25.8
108	19.5	15.6	23.4

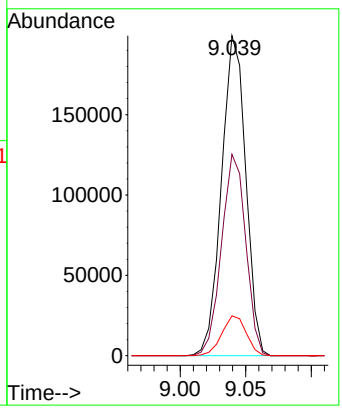




#41
Hexachlorocyclopentadiene
Concen: 72.201 ng
RT: 9.039 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:237 Resp: 25600

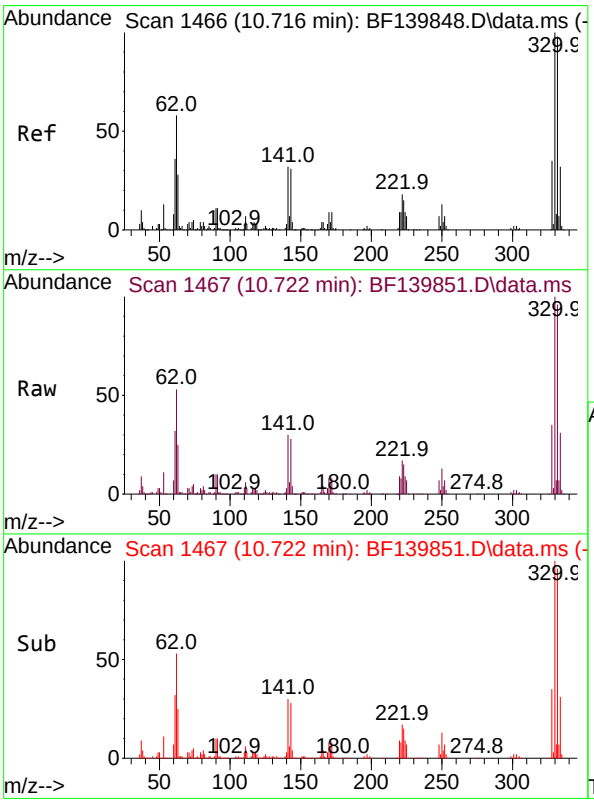
Ion	Ratio	Lower	Upper
237	100		
235	62.9	42.9	82.9
272	12.5	0.0	32.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

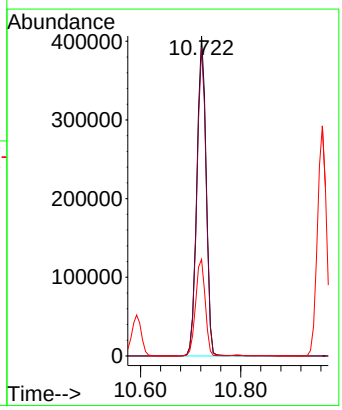
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

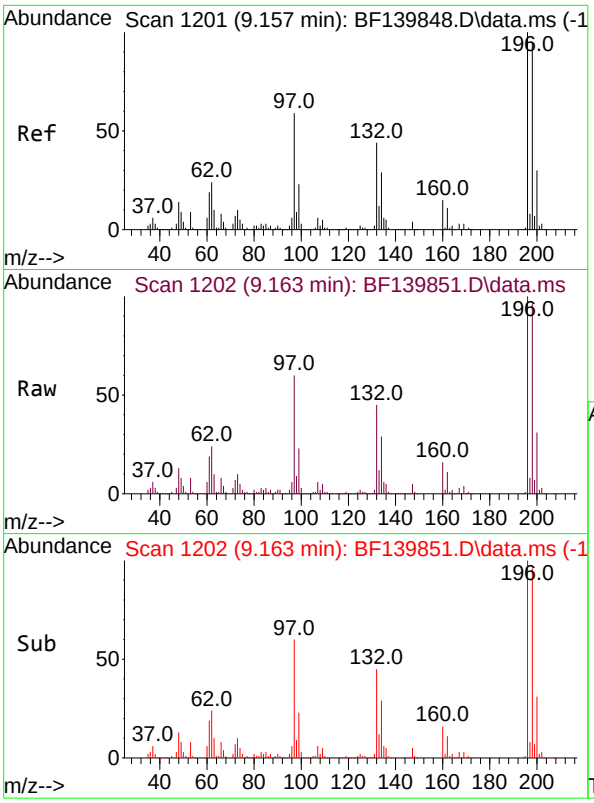


#42
2,4,6-Tribromophenol
Concen: 147.845 ng
RT: 10.722 min Scan# 1467
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:330 Resp: 522350

Ion	Ratio	Lower	Upper
330	100		
332	96.0	78.1	117.1
141	31.2	26.6	39.8

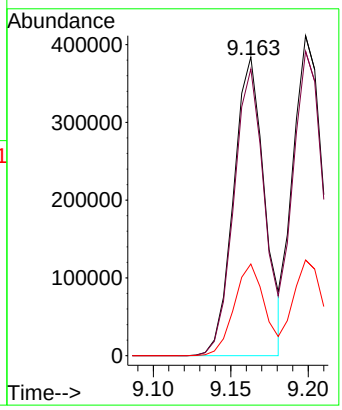




#43
2,4,6-Trichlorophenol
Concen: 74.228 ng
RT: 9.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:196 Resp: 53553

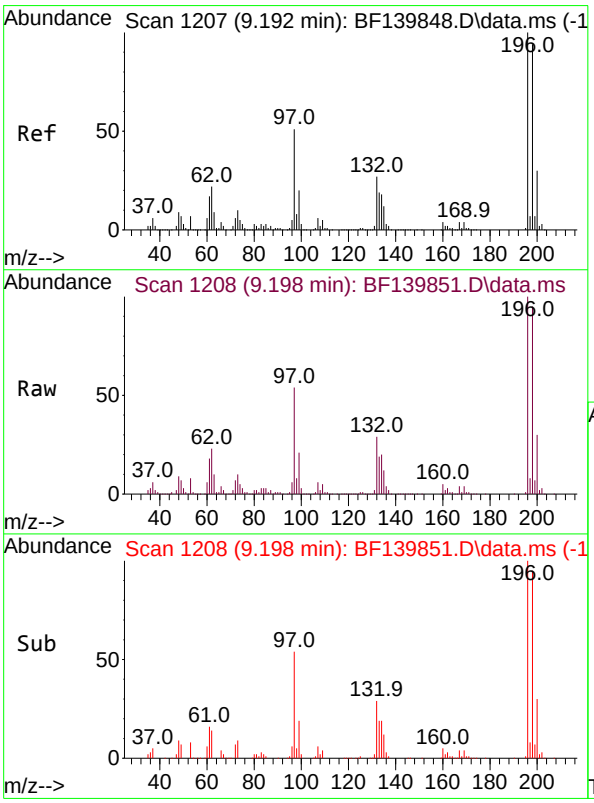
Ion	Ratio	Lower	Upper
196	100		
198	96.0	76.2	114.2
200	30.7	24.0	36.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

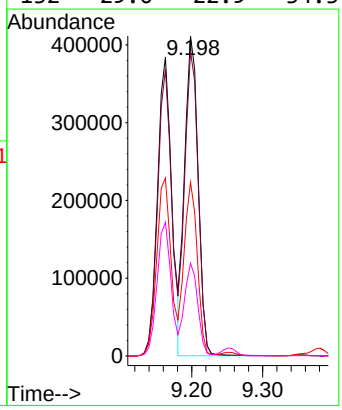
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

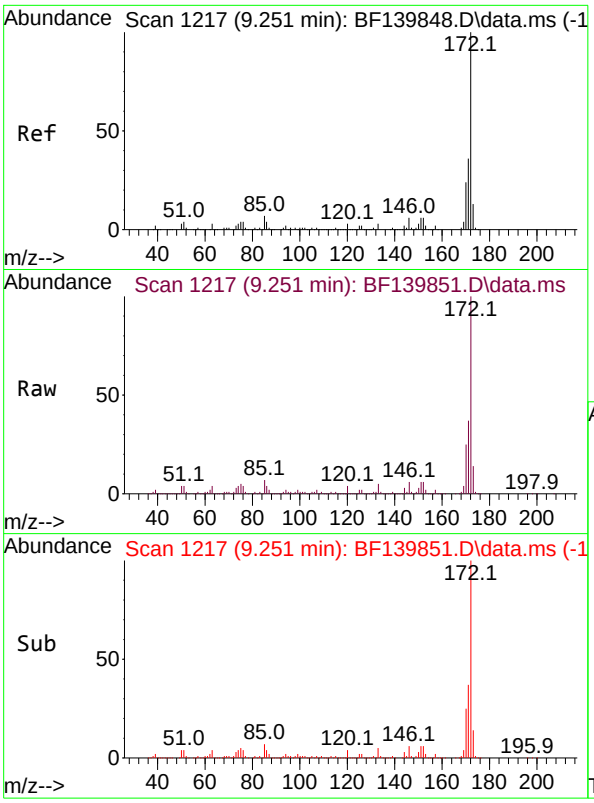


#44
2,4,5-Trichlorophenol
Concen: 72.904 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:196 Resp: 542663

Ion	Ratio	Lower	Upper
196	100		
198	95.2	75.8	113.6
97	54.3	41.8	62.6
132	29.0	22.9	34.3

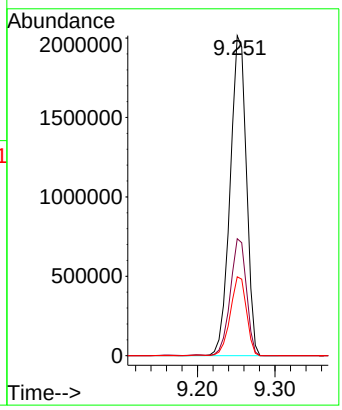




#45
2-Fluorobiphenyl
Concen: 128.689 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:172 Resp: 294118

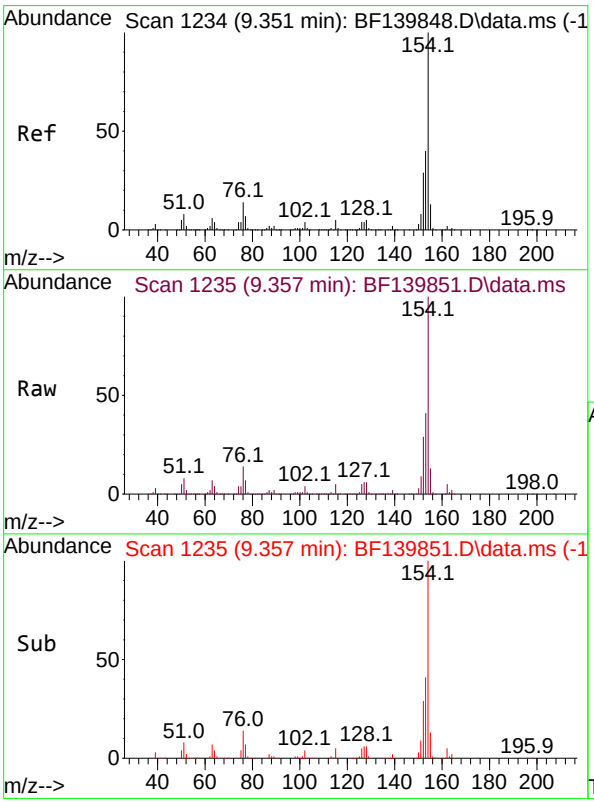
Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.6	43.0
170	24.7	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

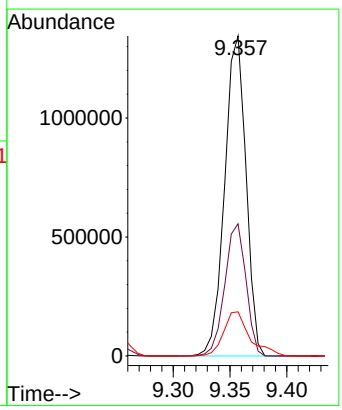
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

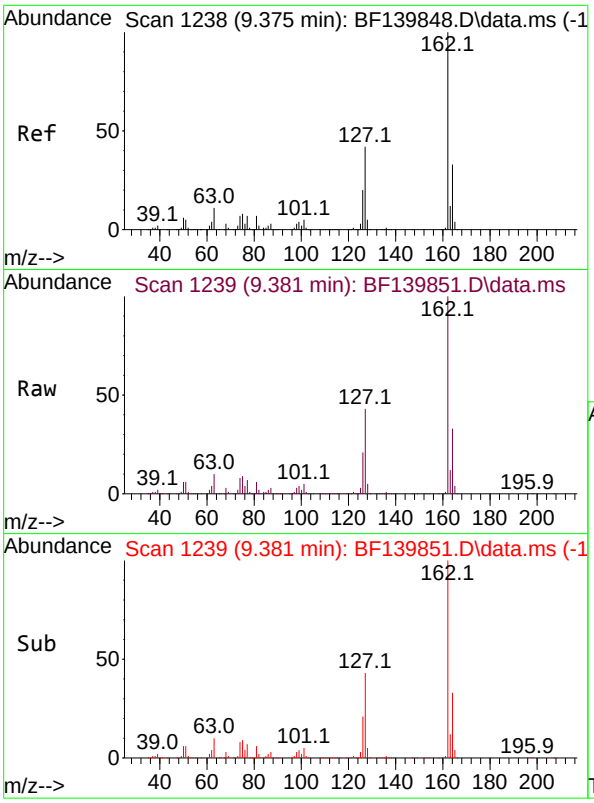


#46
1,1'-Biphenyl
Concen: 66.703 ng
RT: 9.357 min Scan# 1235
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:154 Resp: 1753952

Ion	Ratio	Lower	Upper
154	100		
153	41.3	20.3	60.3
76	13.8	0.0	33.9

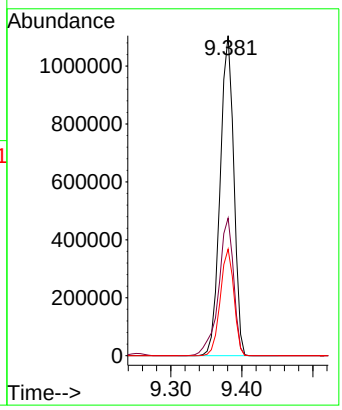




#47
2-Chloronaphthalene
Concen: 69.411 ng
RT: 9.381 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:162 Resp: 147001

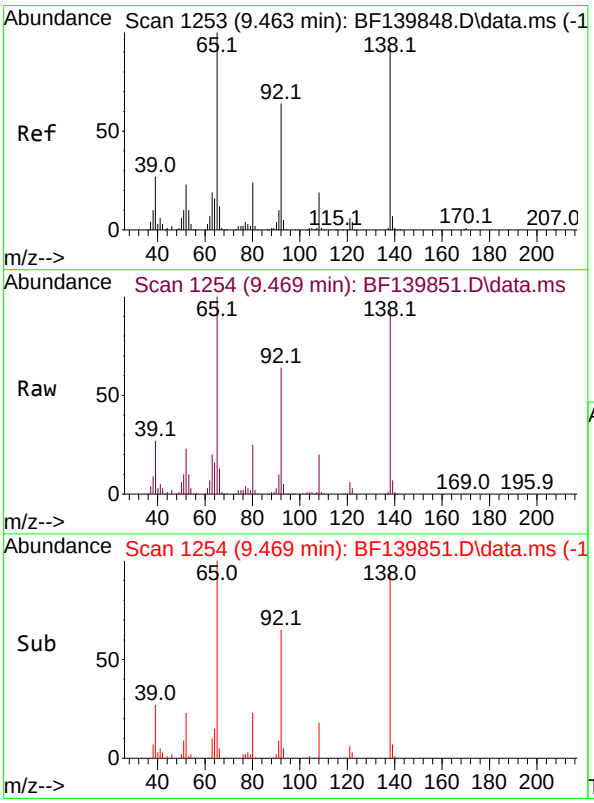
Ion	Ratio	Lower	Upper
162	100		
127	43.0	33.8	50.6
164	33.3	26.6	39.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

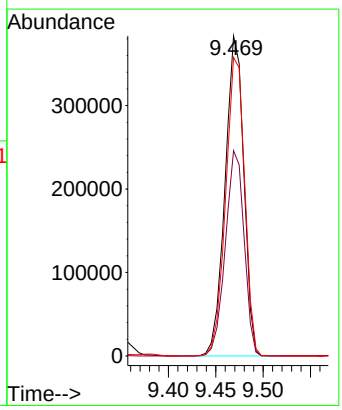
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

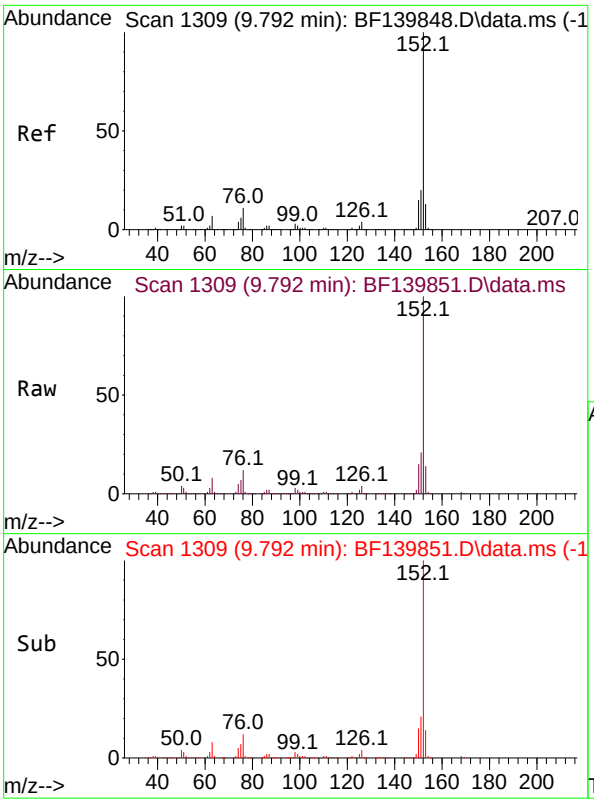


#48
2-Nitroaniline
Concen: 81.447 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 65 Resp: 527552

Ion	Ratio	Lower	Upper
65	100		
92	64.1	50.9	76.3
138	93.3	73.4	110.0

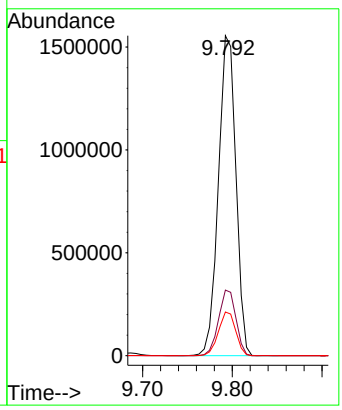




#49
Acenaphthylene
Concen: 68.796 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:152 Resp: 210635

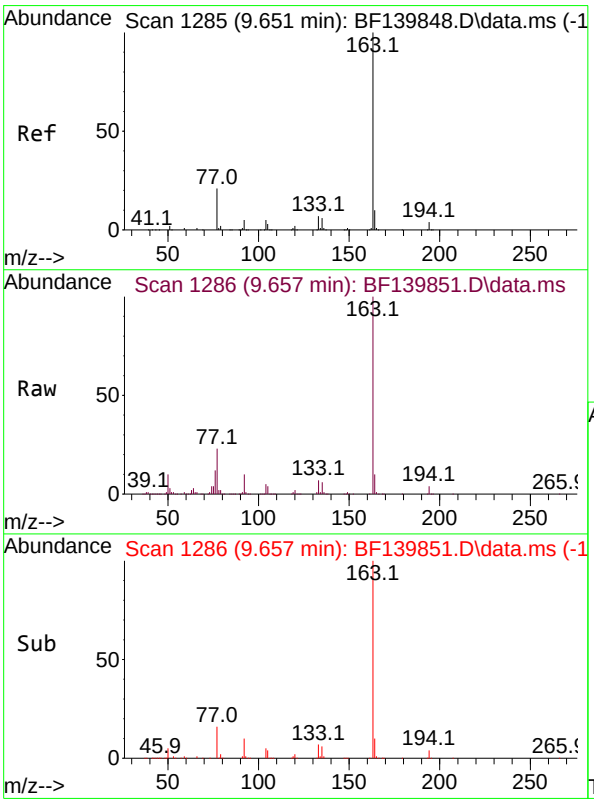
Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.9	23.9
153	13.7	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

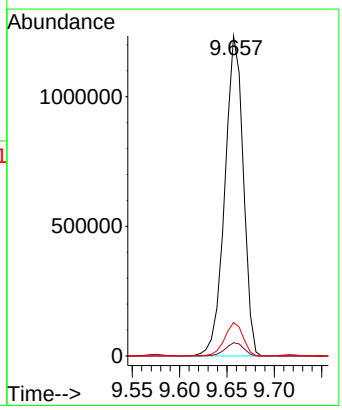
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

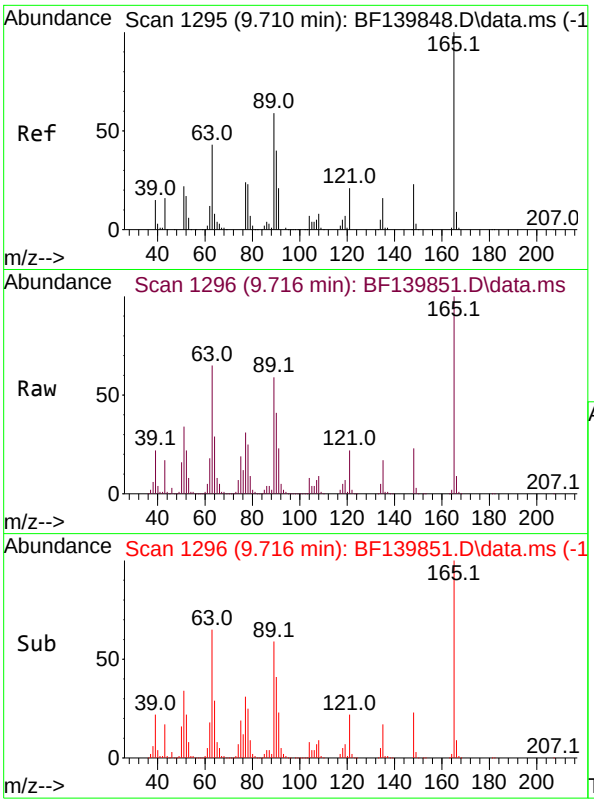


#50
Dimethylphthalate
Concen: 71.277 ng
RT: 9.657 min Scan# 1286
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:163 Resp: 1676969

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.5	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 77.193 ng
RT: 9.716 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

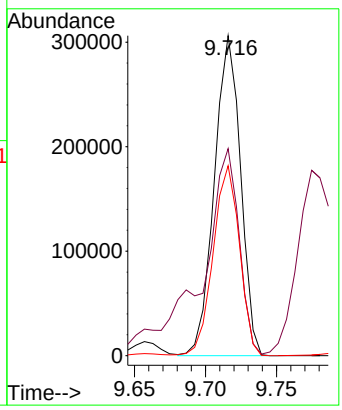
Tgt Ion:165 Resp: 39323

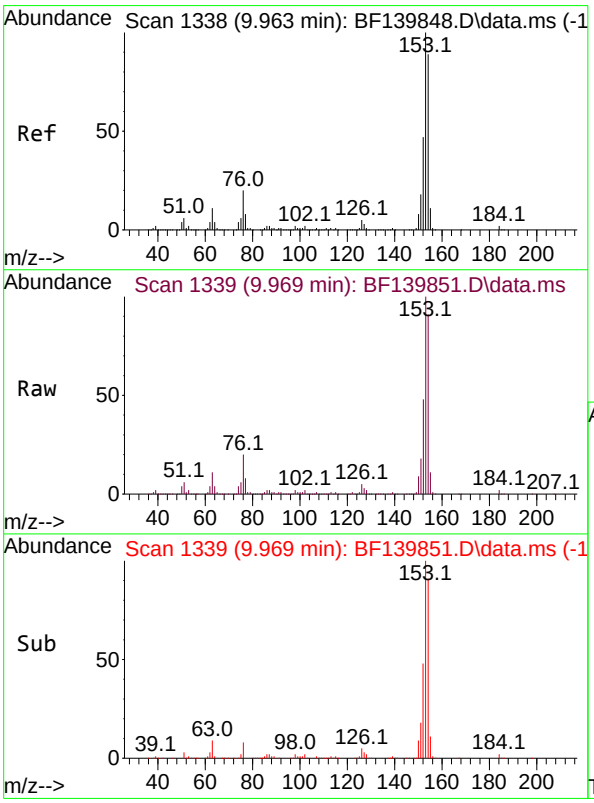
Ion	Ratio	Lower	Upper
165	100		
63	64.7	50.6	75.8
89	59.4	47.5	71.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

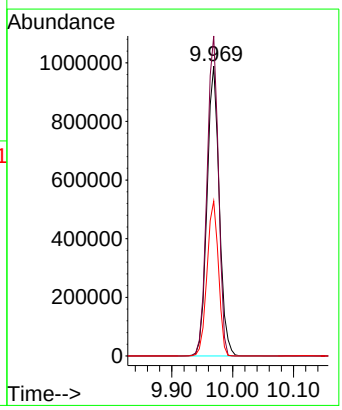


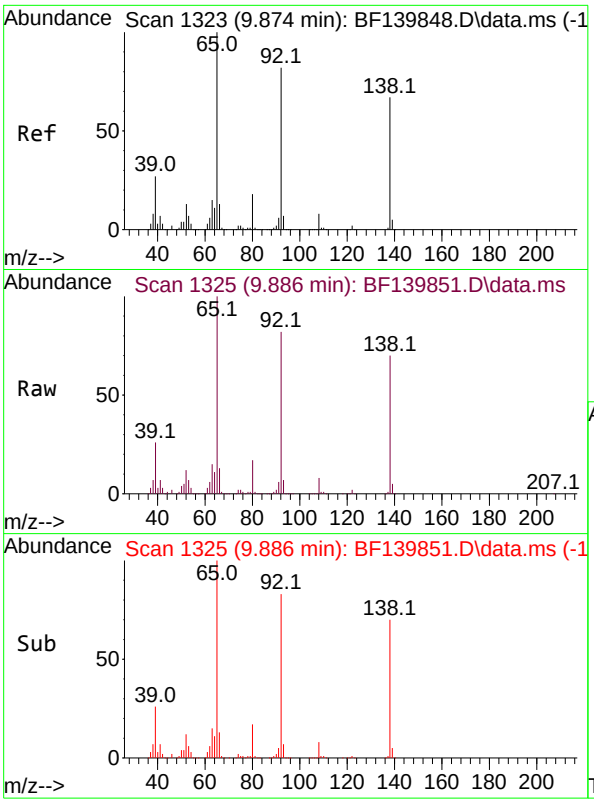


#52
Acenaphthene
Concen: 69.610 ng
RT: 9.969 min Scan# 1339
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:154 Resp: 1378724

Ion	Ratio	Lower	Upper
154	100		
153	110.4	89.8	134.6
152	53.4	42.4	63.6





#53
3-Nitroaniline
Concen: 73.697 ng
RT: 9.886 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

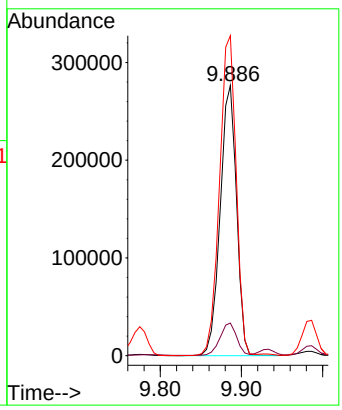
Tgt Ion:138 Resp: 38715

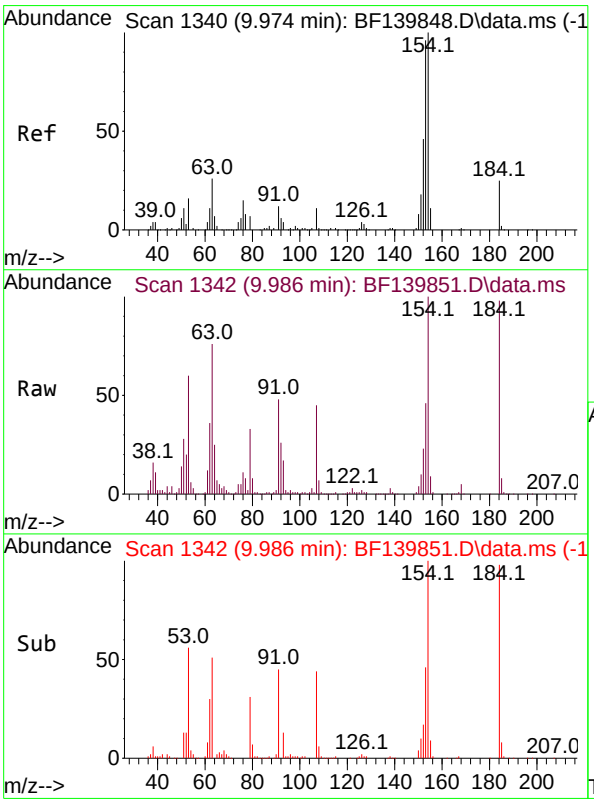
Ion	Ratio	Lower	Upper
138	100		
108	12.1	10.2	15.2
92	118.4	98.3	147.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

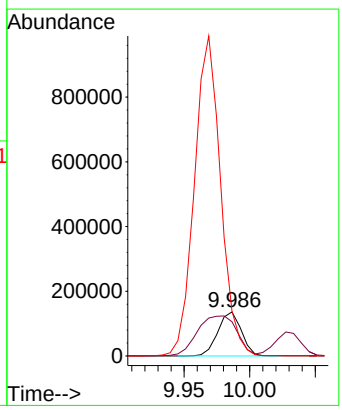


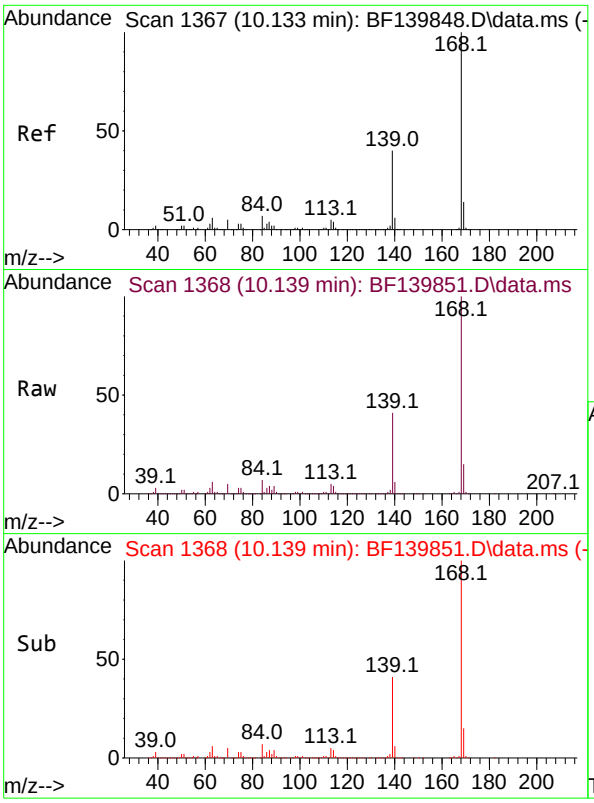


#54
2,4-Dinitrophenol
Concen: 79.932 ng
RT: 9.986 min Scan# 1342
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:184 Resp: 169167

Ion	Ratio	Lower	Upper
184	100		
63	77.7	84.7	127.1#
154	102.0	338.2	507.2#

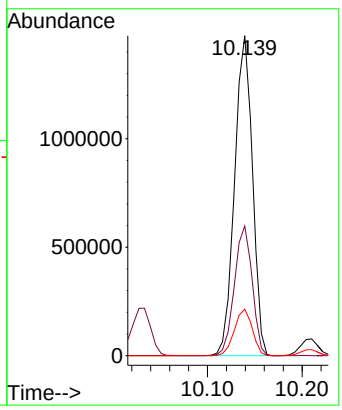




#55
Dibenzofuran
Concen: 67.930 ng
RT: 10.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:168 Resp: 193040

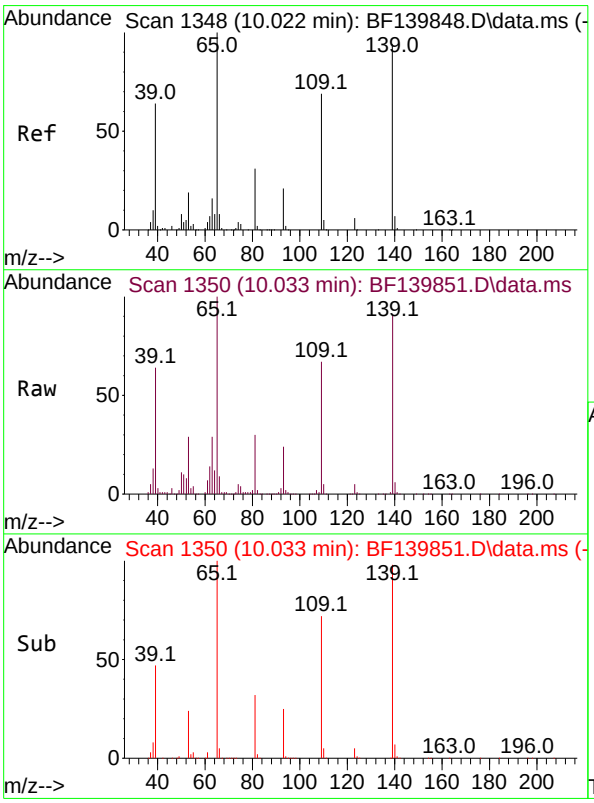
Ion	Ratio	Lower	Upper
168	100		
139	40.6	31.8	47.6
169	14.6	11.6	17.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

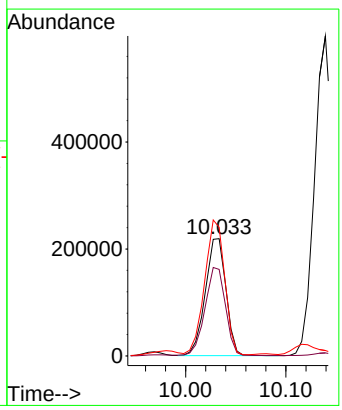
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

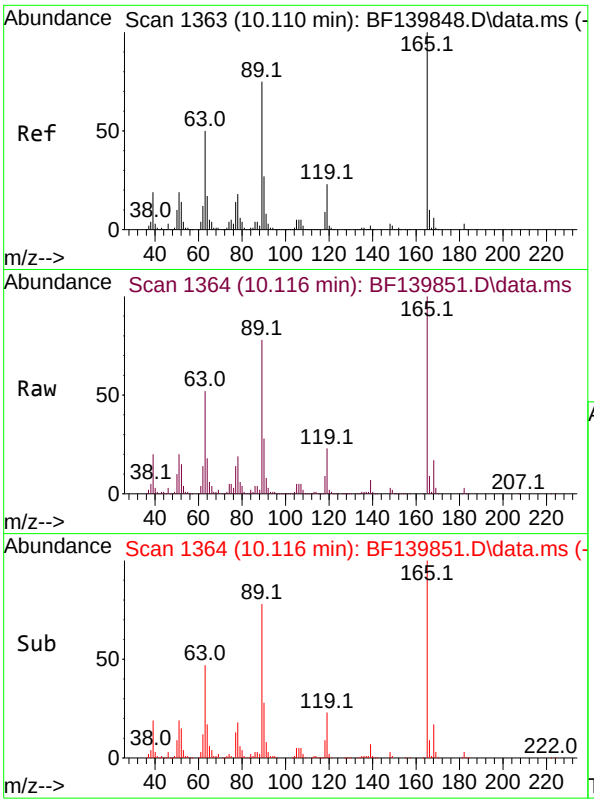


#56
4-Nitrophenol
Concen: 77.732 ng
RT: 10.033 min Scan# 1350
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:139 Resp: 314170

Ion	Ratio	Lower	Upper
139	100		
109	73.7	53.6	93.6
65	109.6	87.8	127.8

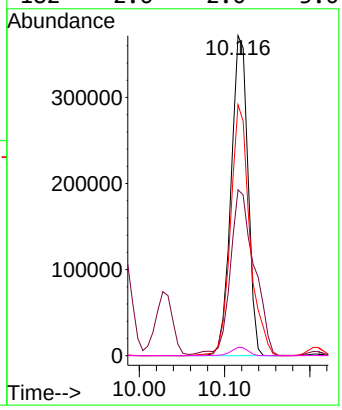




#57
2,4-Dinitrotoluene
Concen: 81.523 ng
RT: 10.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:165 Resp: 51070

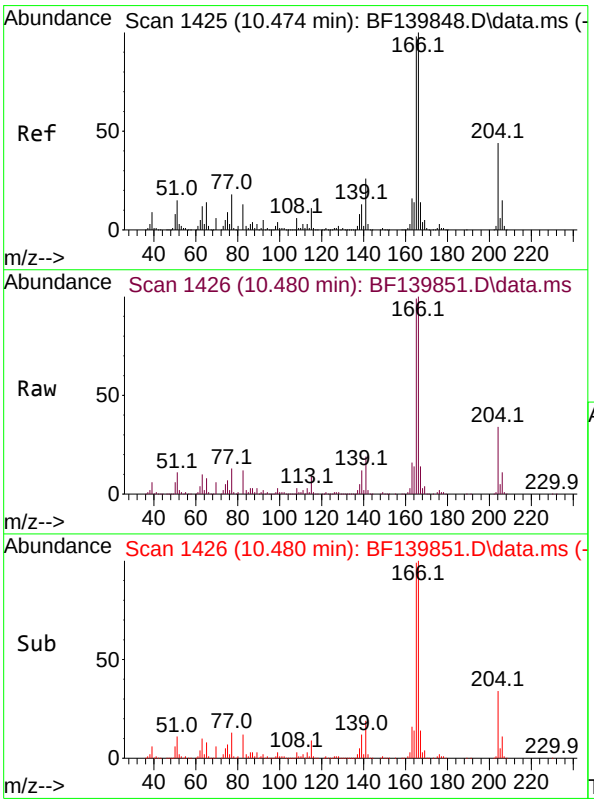
Ion	Ratio	Lower	Upper
165	100		
63	51.9	40.1	60.1
89	78.4	60.4	90.6
182	2.6	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

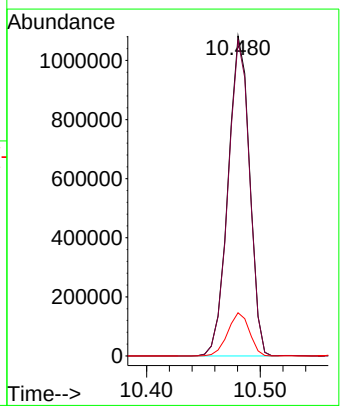
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

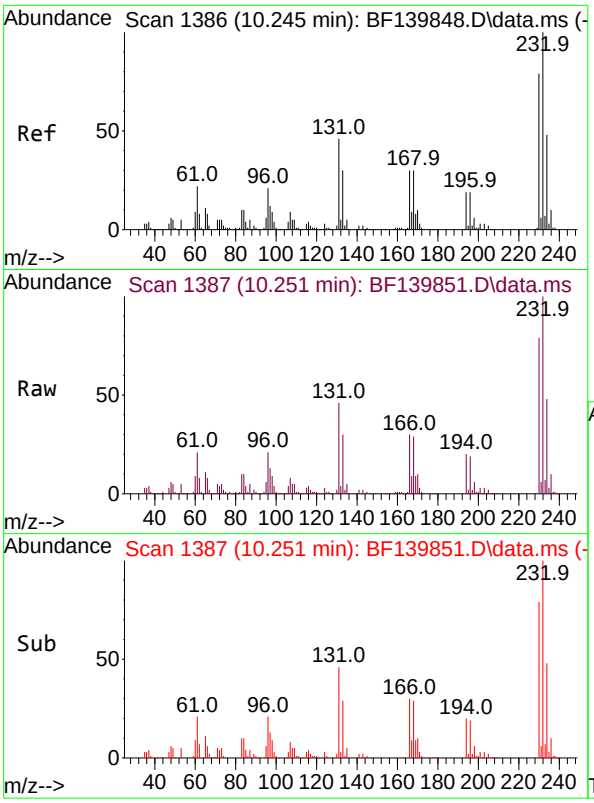


#58
Fluorene
Concen: 65.920 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:166 Resp: 1426794

Ion	Ratio	Lower	Upper
166	100		
165	98.6	78.5	117.7
167	13.5	10.9	16.3

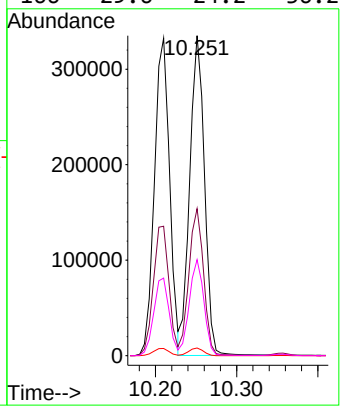




#59
2,3,4,6-Tetrachlorophenol
Concen: 72.764 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:232 Resp: 42459

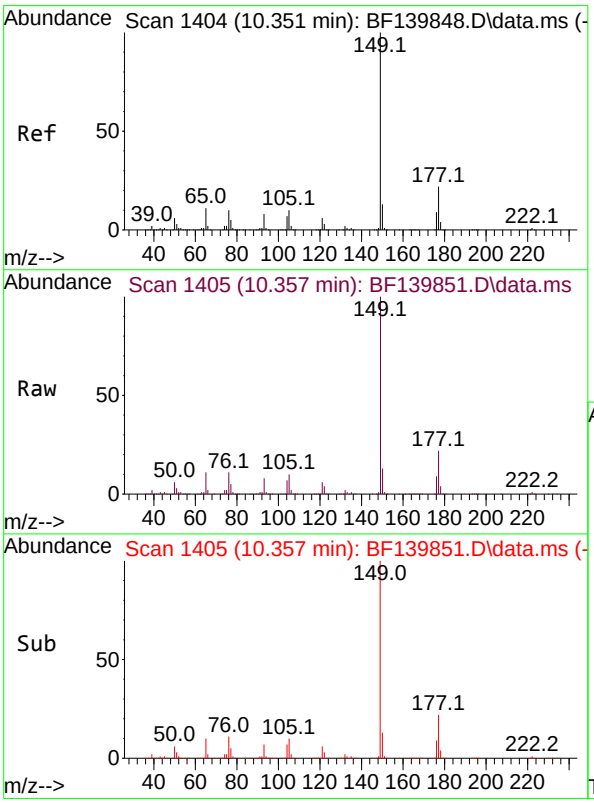
Ion	Ratio	Lower	Upper
232	100		
131	45.6	37.0	55.6
130	2.4	1.9	2.9
166	29.6	24.2	36.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

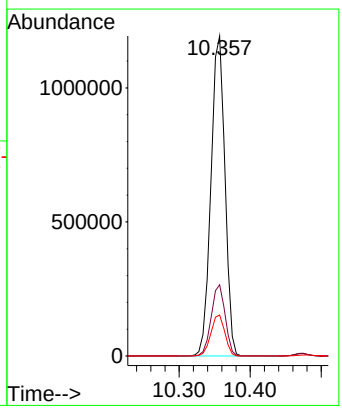
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

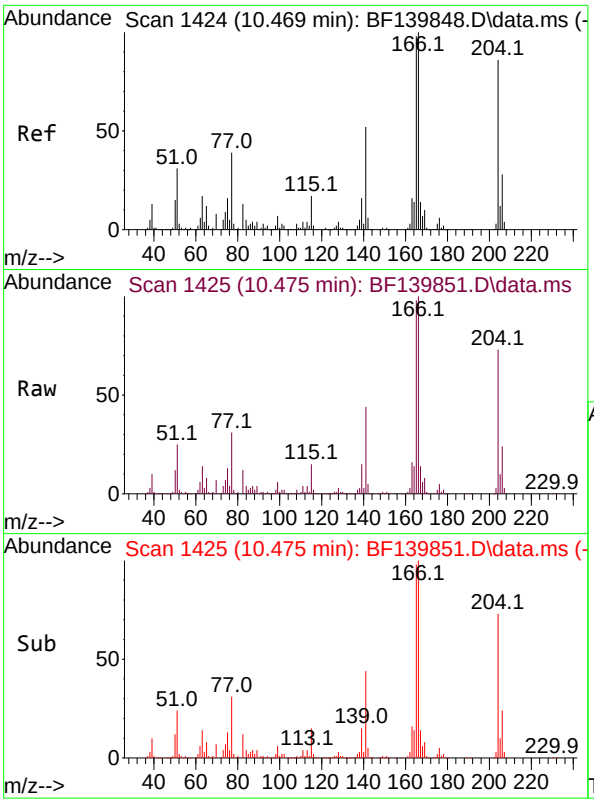


#60
Diethylphthalate
Concen: 70.641 ng
RT: 10.357 min Scan# 1405
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:149 Resp: 1631842

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.9	26.9
150	12.8	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 66.837 ng
RT: 10.475 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

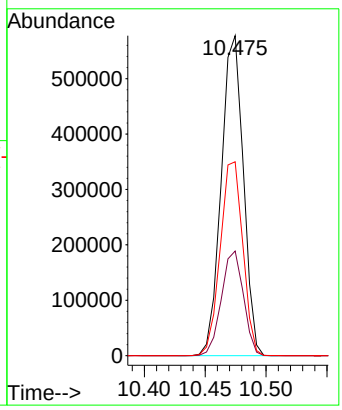
Tgt Ion:204 Resp: 73056

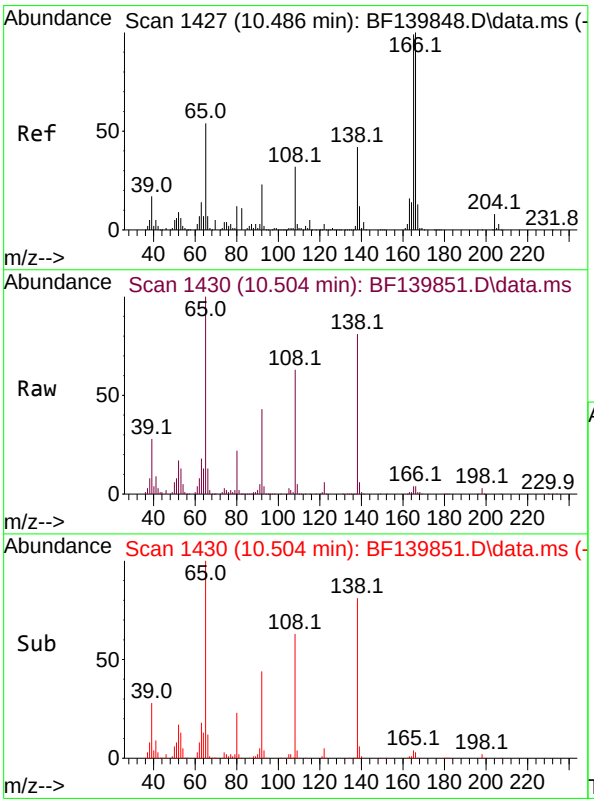
Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.3	39.5
141	60.6	48.6	73.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

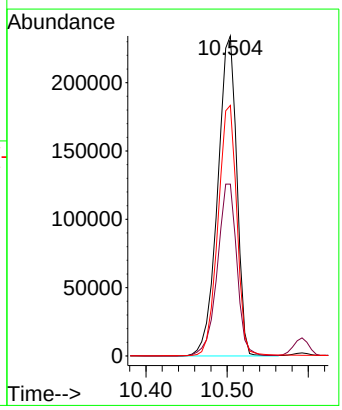


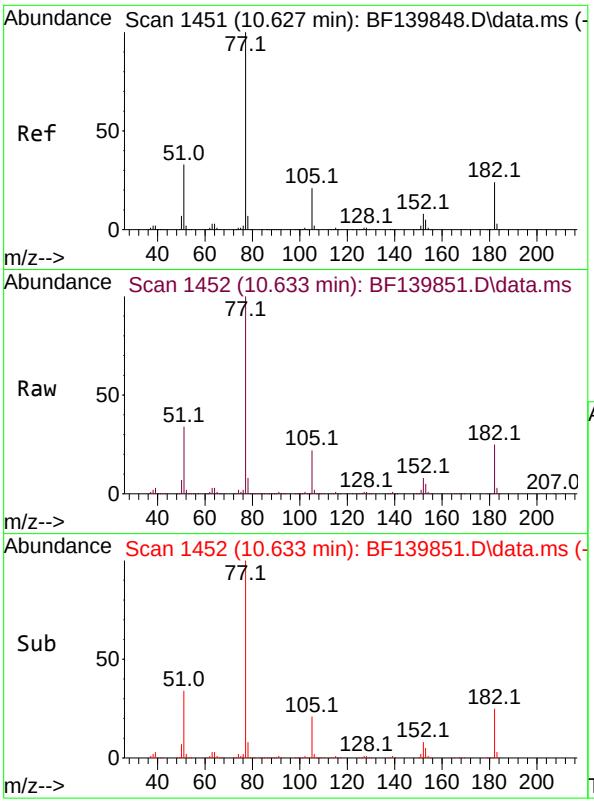


#62
4-Nitroaniline
Concen: 77.270 ng
RT: 10.504 min Scan# 1430
Delta R.T. 0.018 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:138 Resp: 383383

Ion	Ratio	Lower	Upper
138	100		
92	53.7	35.7	75.7
108	78.3	57.5	97.5

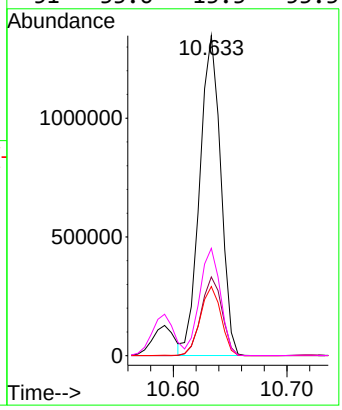




#63
Azobenzene
Concen: 70.539 ng
RT: 10.633 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion: 77 Resp: 172753

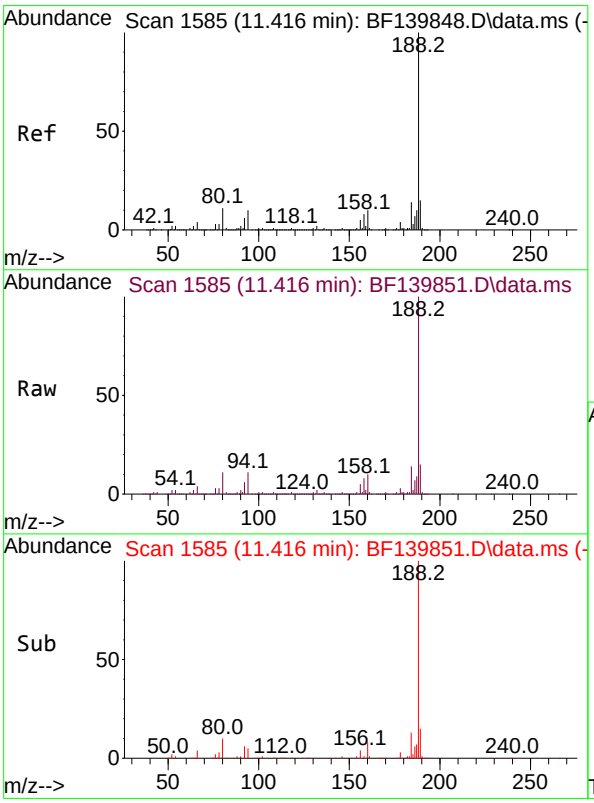
Ion	Ratio	Lower	Upper
77	100		
182	24.6	3.3	43.3
105	21.6	1.2	41.2
51	33.6	13.3	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

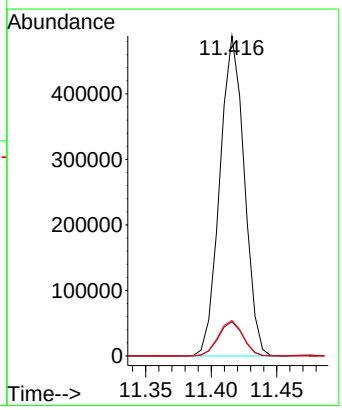
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

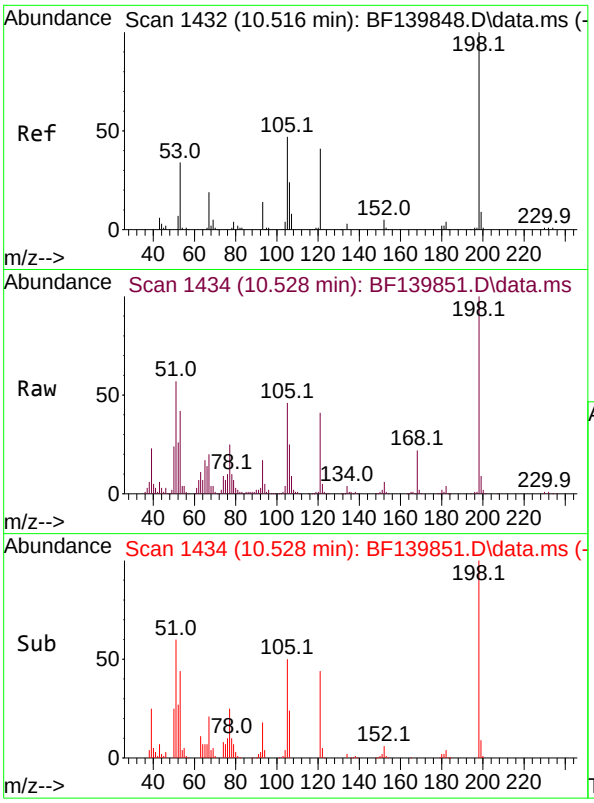


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:188 Resp: 633721

Ion	Ratio	Lower	Upper
188	100		
94	10.7	7.9	11.9
80	11.1	9.0	13.4

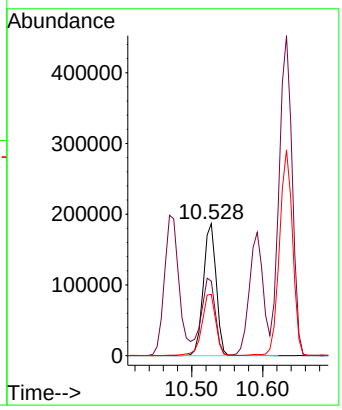




#65
4,6-Dinitro-2-methylphenol
Concen: 91.037 ng
RT: 10.528 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:198 Resp: 23532

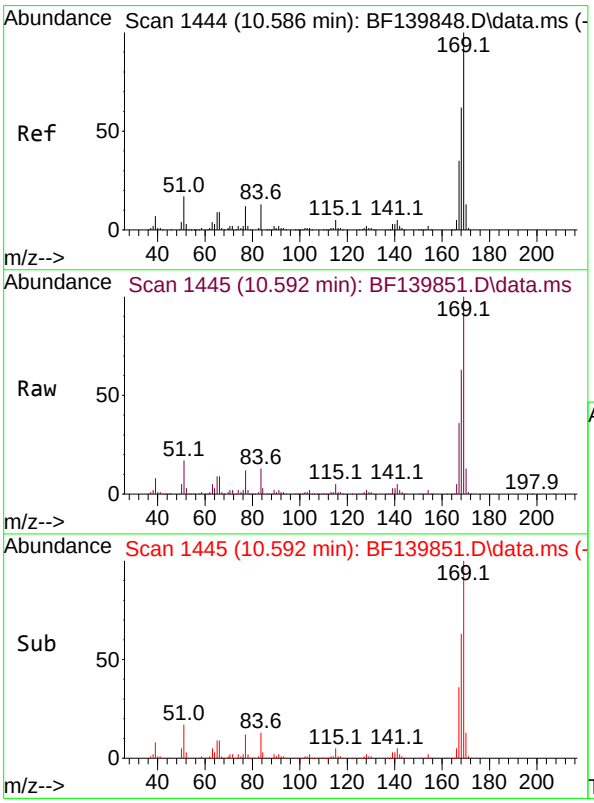
Ion	Ratio	Lower	Upper
198	100		
51	56.5	38.2	78.2
105	46.4	27.9	67.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

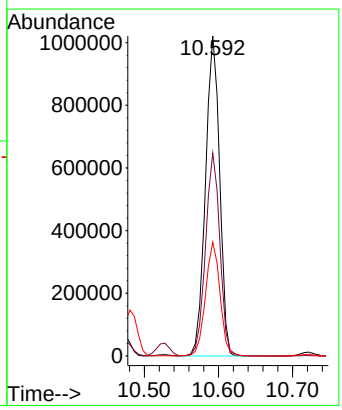
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

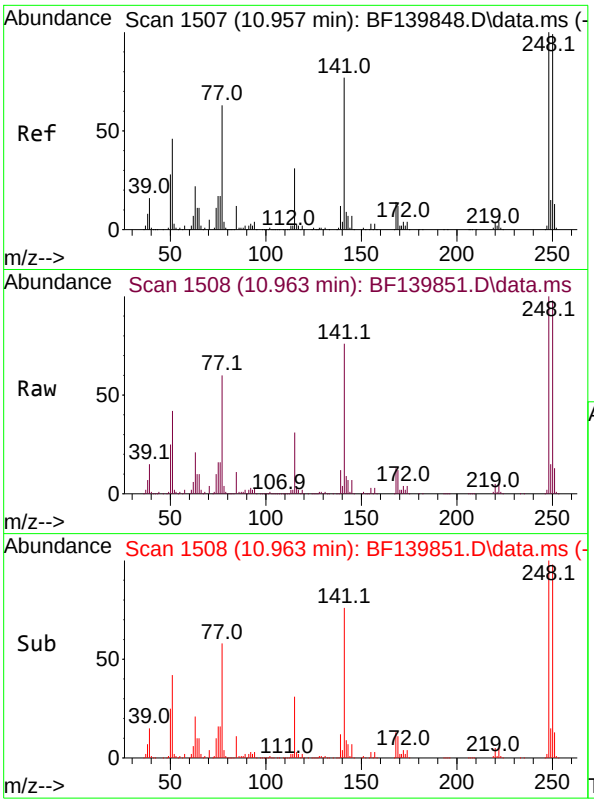


#66
n-Nitrosodiphenylamine
Concen: 71.220 ng
RT: 10.592 min Scan# 1445
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:169 Resp: 1350839

Ion	Ratio	Lower	Upper
169	100		
168	63.4	49.8	74.6
167	35.5	28.0	42.0

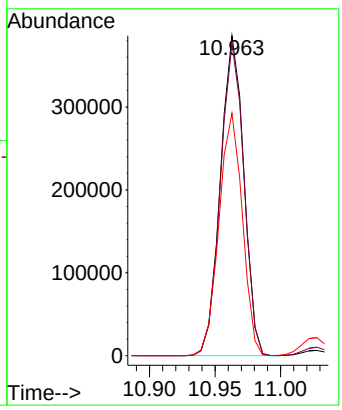




#67
4-Bromophenyl-phenylether
Concen: 73.216 ng
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:248 Resp: 47799

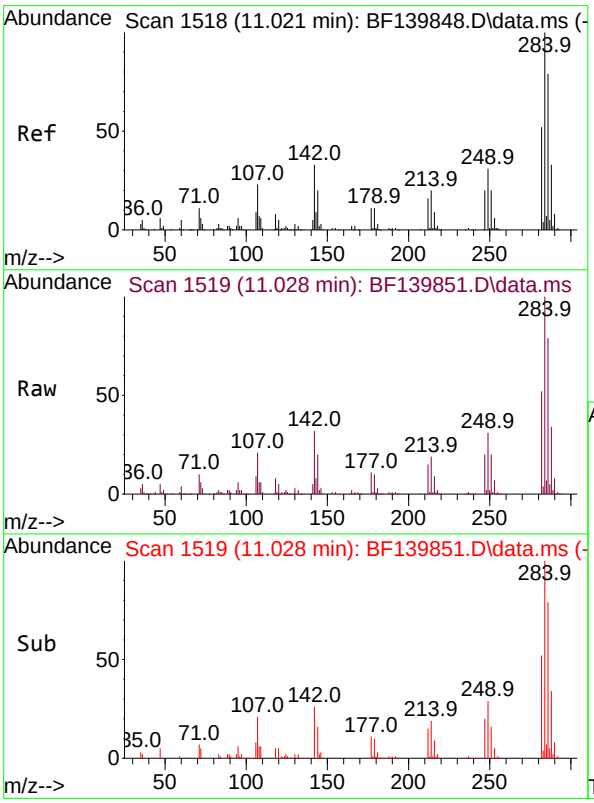
Ion	Ratio	Lower	Upper
248	100		
250	97.5	79.0	118.6
141	75.7	61.7	92.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

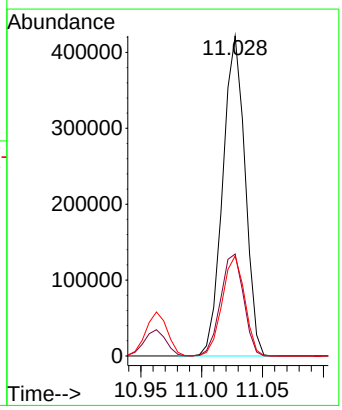
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

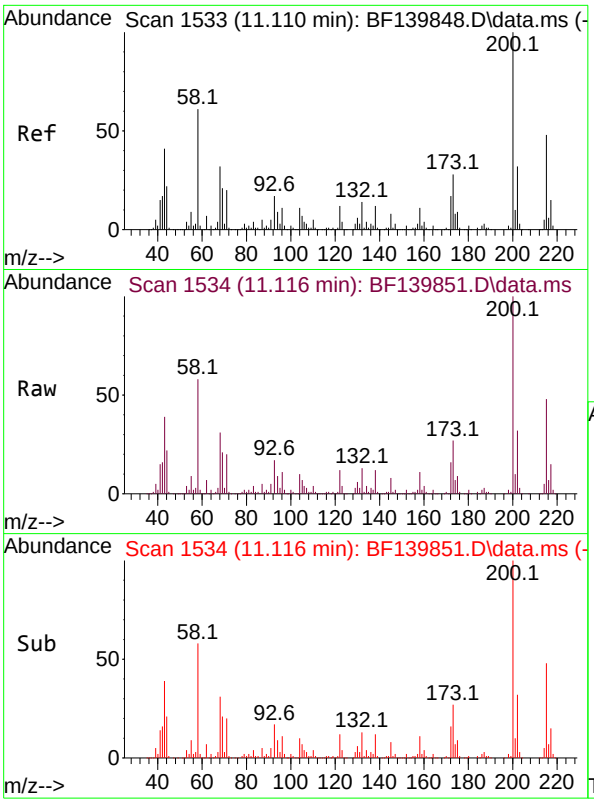


#68
Hexachlorobenzene
Concen: 73.070 ng
RT: 11.028 min Scan# 1519
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:284 Resp: 536511

Ion	Ratio	Lower	Upper
284	100		
142	31.9	26.9	40.3
249	31.3	25.3	37.9

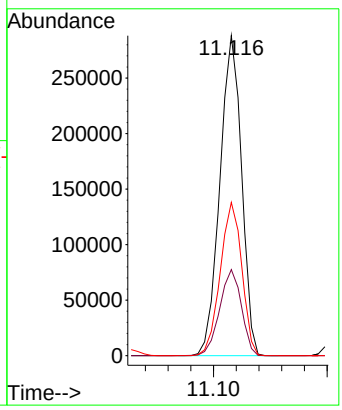




#69
Atrazine
Concen: 74.406 ng
RT: 11.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:200 Resp: 38229

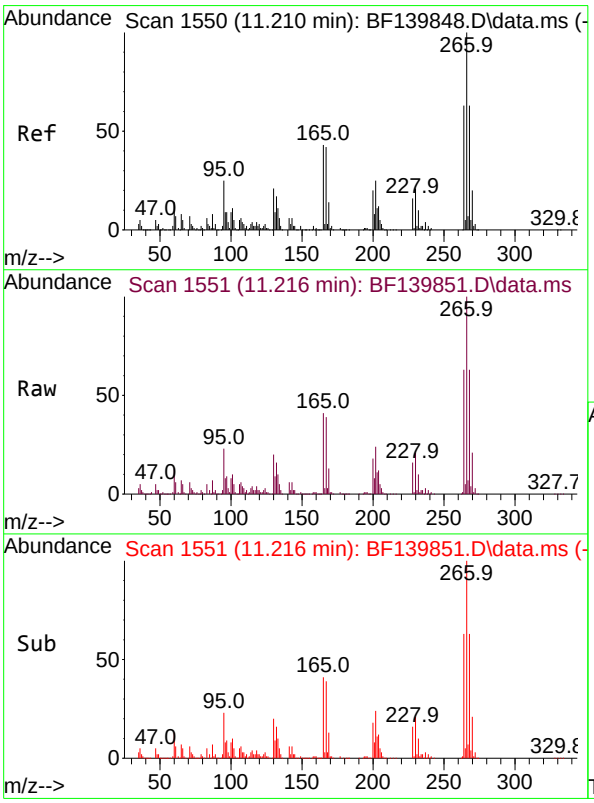
Ion	Ratio	Lower	Upper
200	100		
173	26.9	7.7	47.7
215	47.9	27.7	67.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

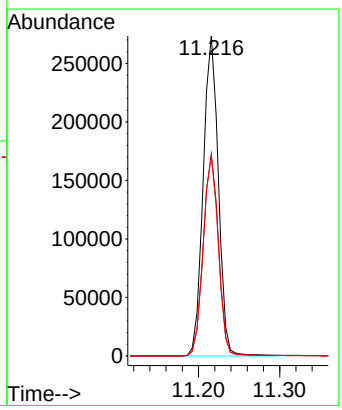
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

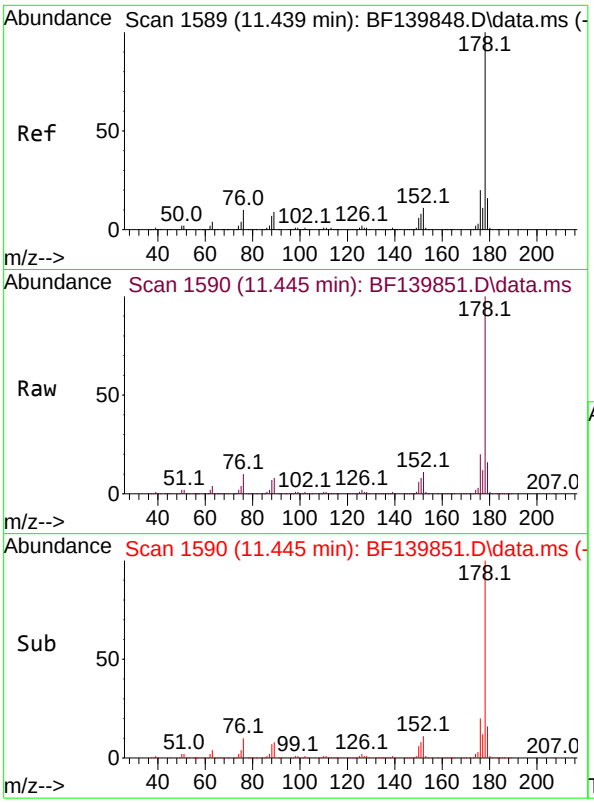


#70
Pentachlorophenol
Concen: 79.464 ng
RT: 11.216 min Scan# 1551
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:266 Resp: 354105

Ion	Ratio	Lower	Upper
266	100		
268	63.1	50.4	75.6
264	62.5	50.6	75.8

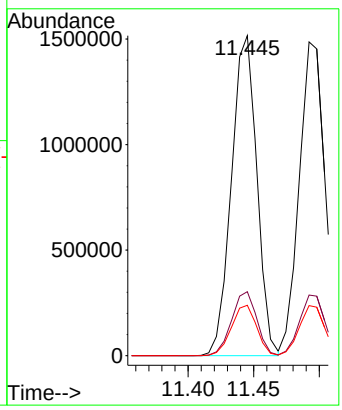




#71
Phenanthrene
Concen: 68.336 ng
RT: 11.445 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:178 Resp: 204557

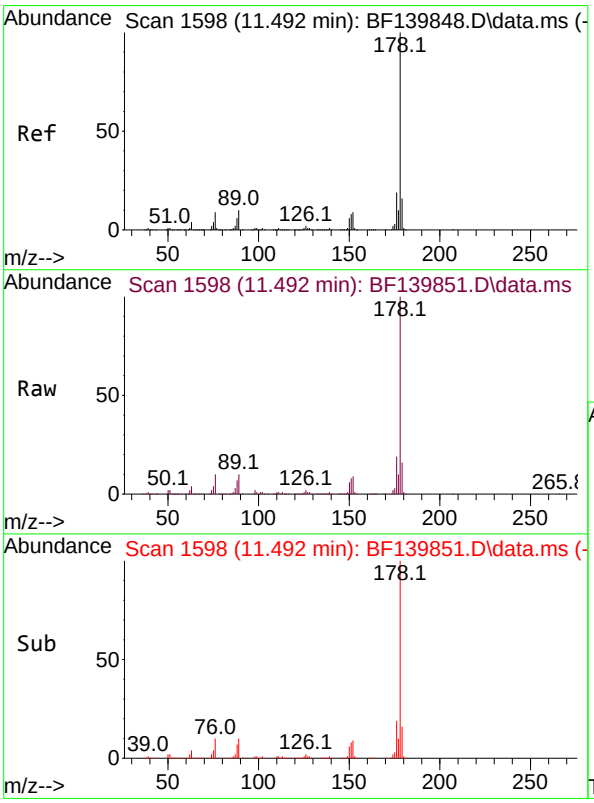
Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.8	23.6
179	15.7	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

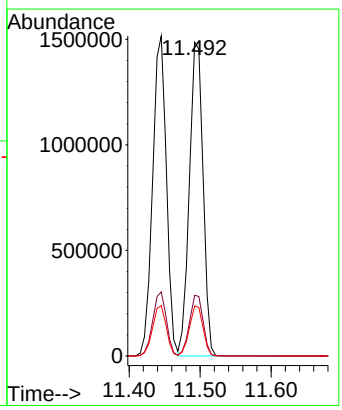
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

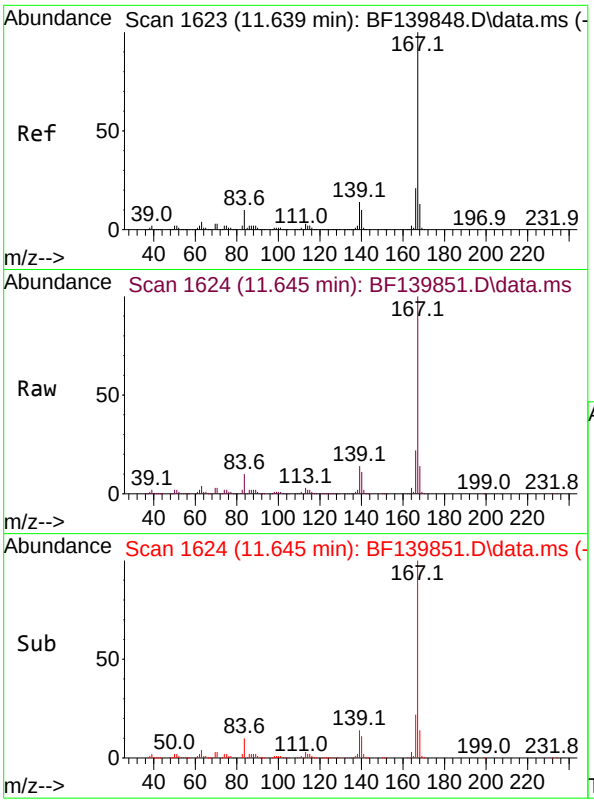


#72
Anthracene
Concen: 68.333 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:178 Resp: 1995750

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	16.0	12.4	18.6





#73
Carbazole
Concen: 66.943 ng
RT: 11.645 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

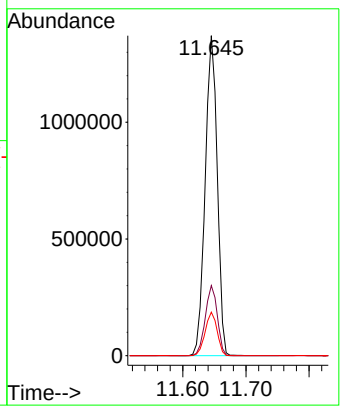
Tgt Ion:167 Resp: 181834

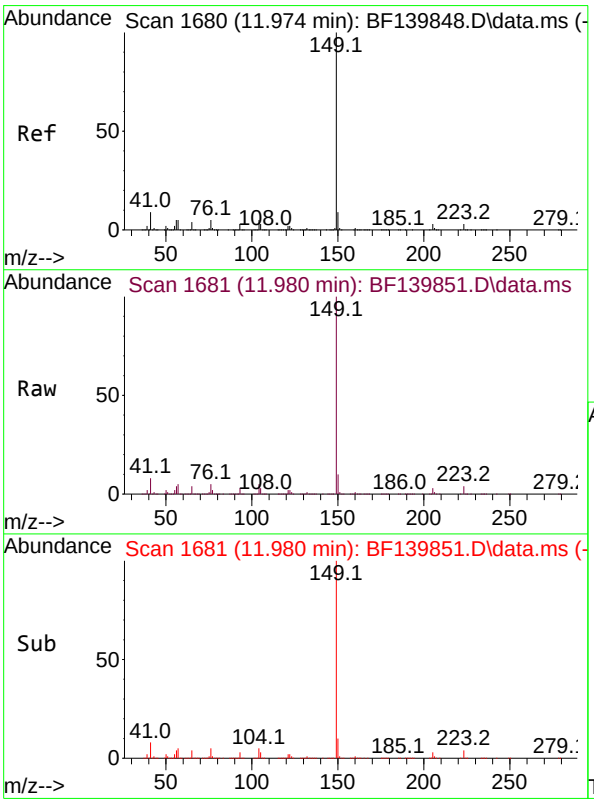
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.0	25.6
139	13.6	10.8	16.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

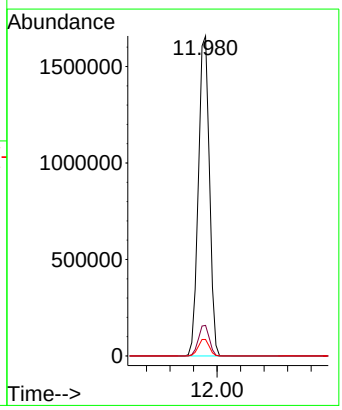


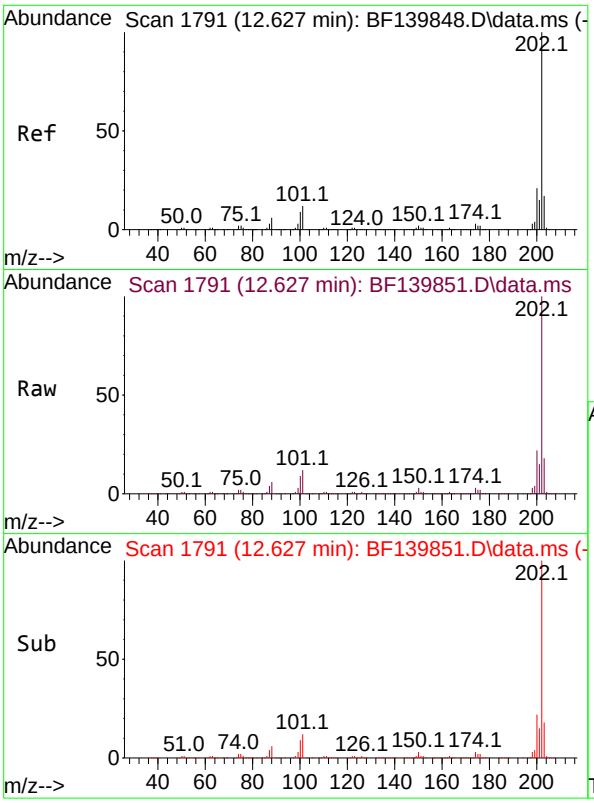


#74
Di-n-butylphthalate
Concen: 68.623 ng
RT: 11.980 min Scan# 1681
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:149 Resp: 2153517

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.5	11.3
104	5.2	4.1	6.1

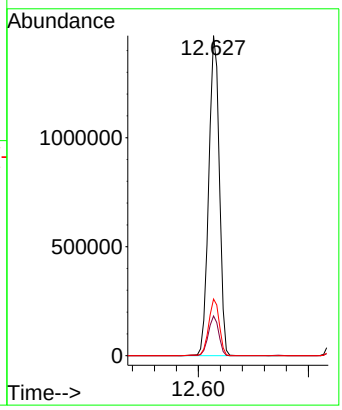




#75
Fluoranthene
Concen: 64.632 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:202 Resp: 195584

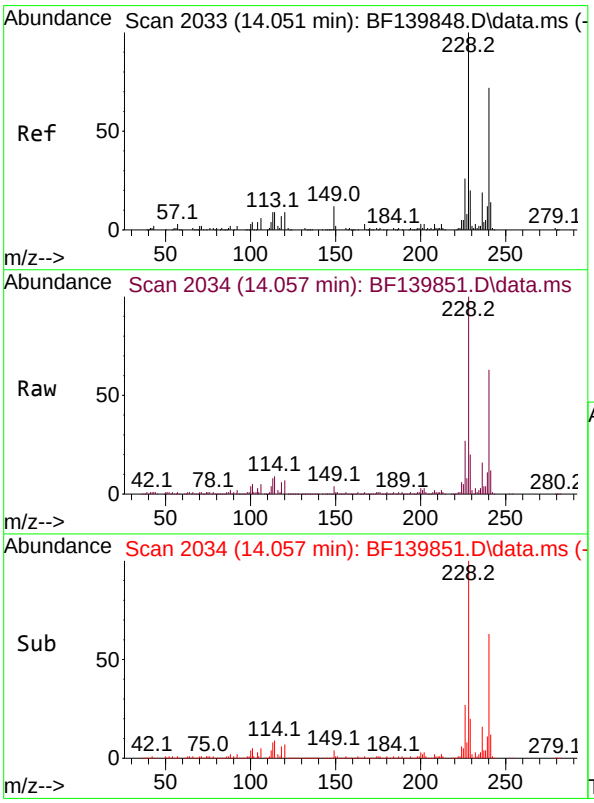
Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	31.9
203	17.7	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

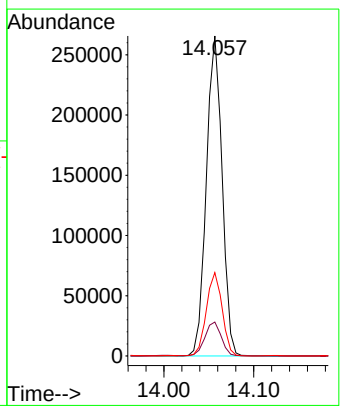
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

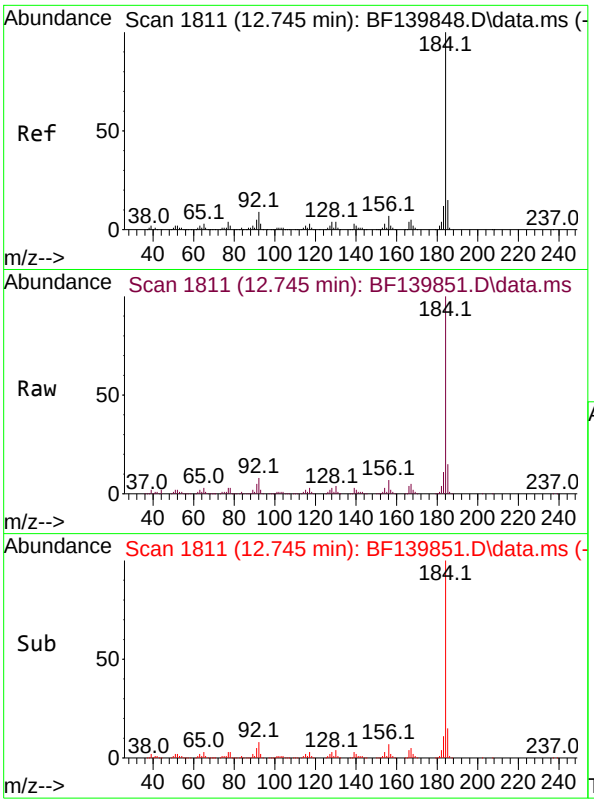


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:240 Resp: 323513

Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.4	14.2
236	26.1	20.9	31.3

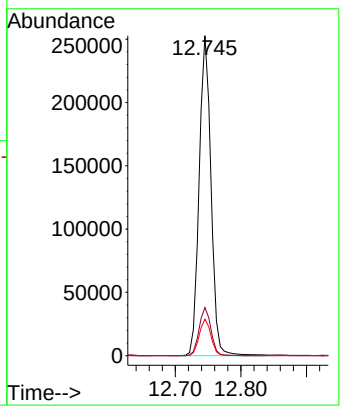




#77
Benzidine
Concen: 60.567 ng
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:184 Resp: 31867

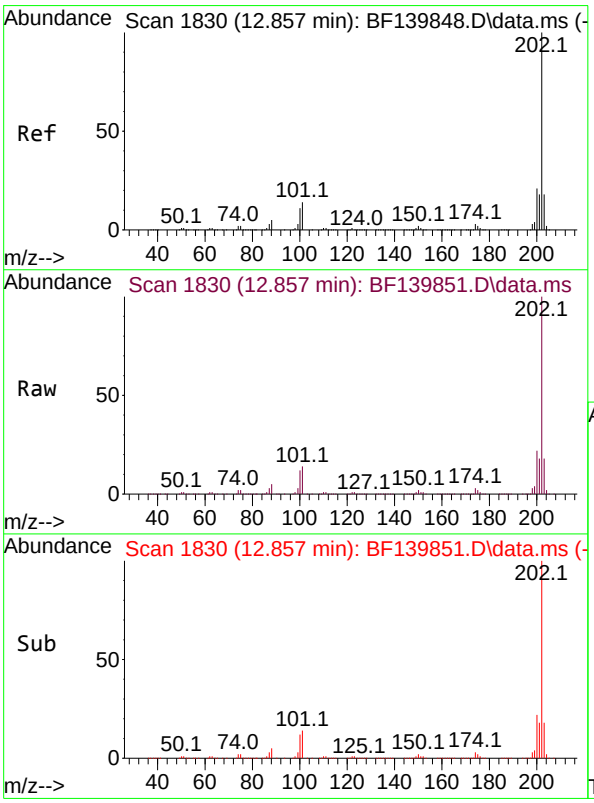
Ion	Ratio	Lower	Upper
184	100		
185	15.1	12.0	18.0
183	11.4	9.4	14.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

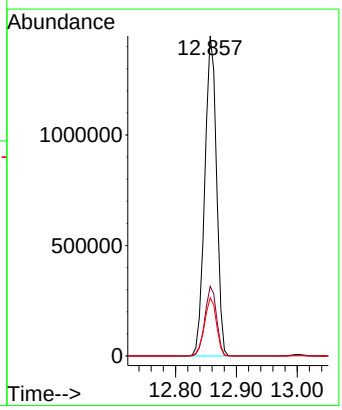
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

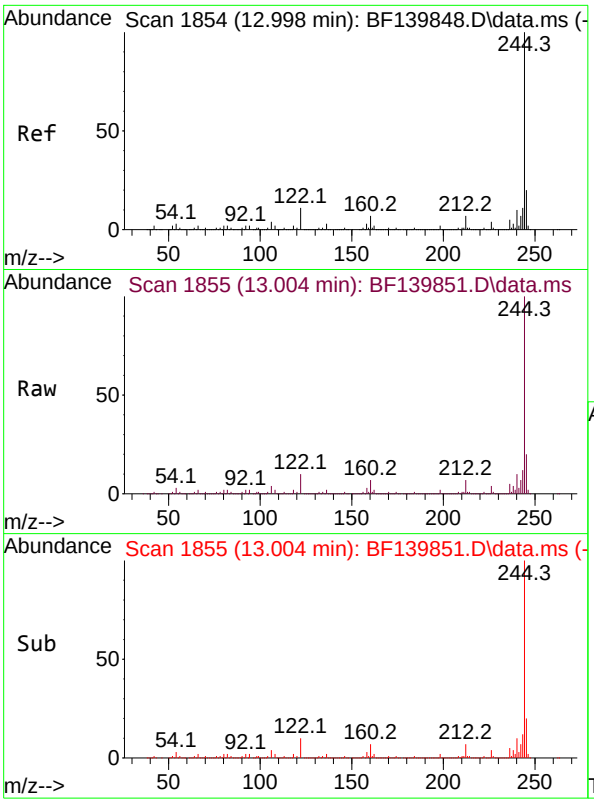


#78
Pyrene
Concen: 68.360 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:202 Resp: 1935829

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.2	25.8
203	18.2	14.2	21.4

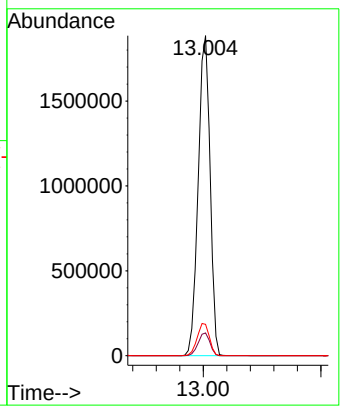




#79
Terphenyl-d14
Concen: 132.704 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:244 Resp: 263467

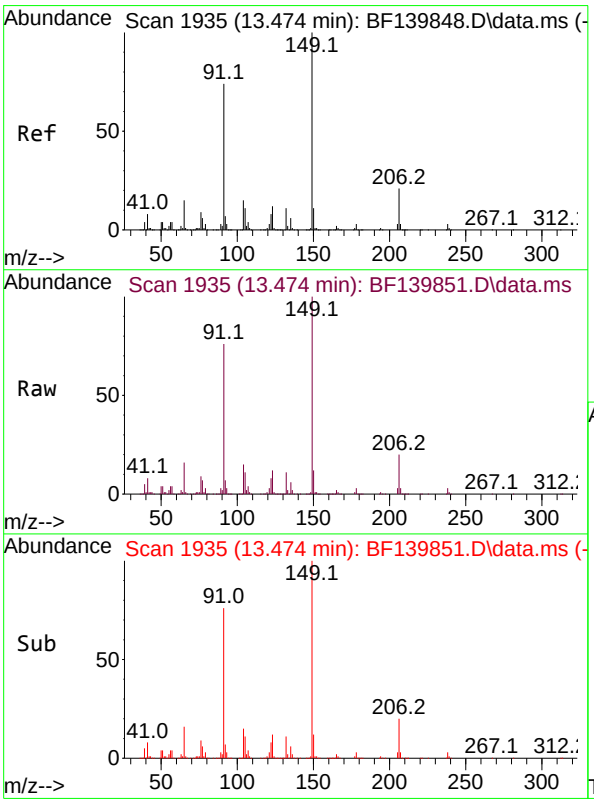
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	9.8	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

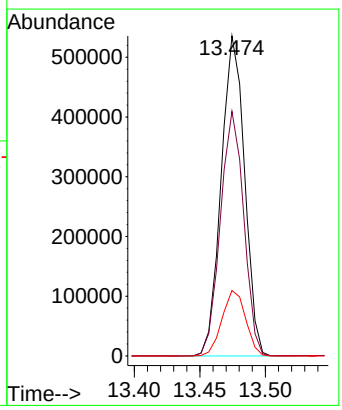
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

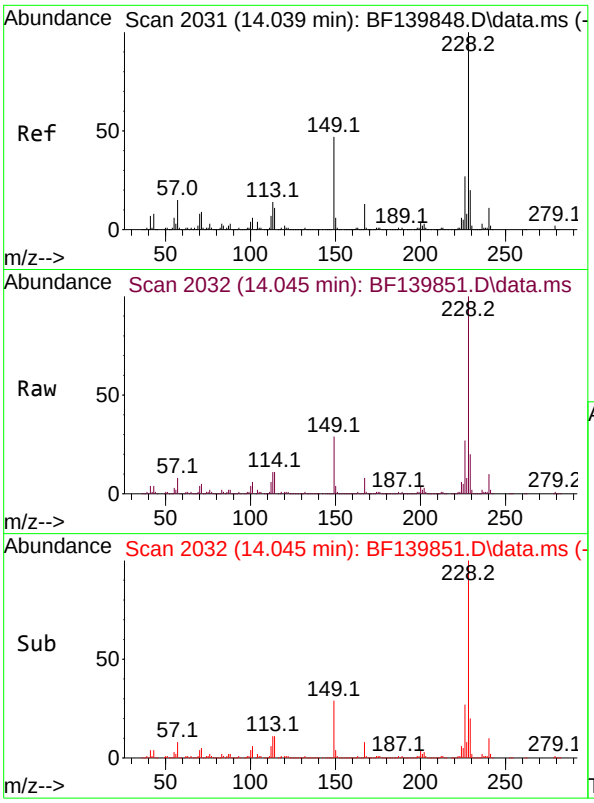


#80
Butylbenzylphthalate
Concen: 78.274 ng
RT: 13.474 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:149 Resp: 664532

Ion	Ratio	Lower	Upper
149	100		
91	76.5	59.4	89.2
206	20.5	16.4	24.6

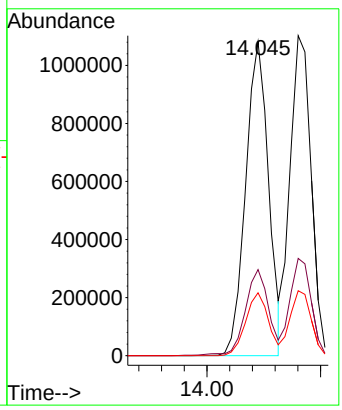




#81
Benzo(a)anthracene
Concen: 71.840 ng
RT: 14.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:228 Resp: 151292

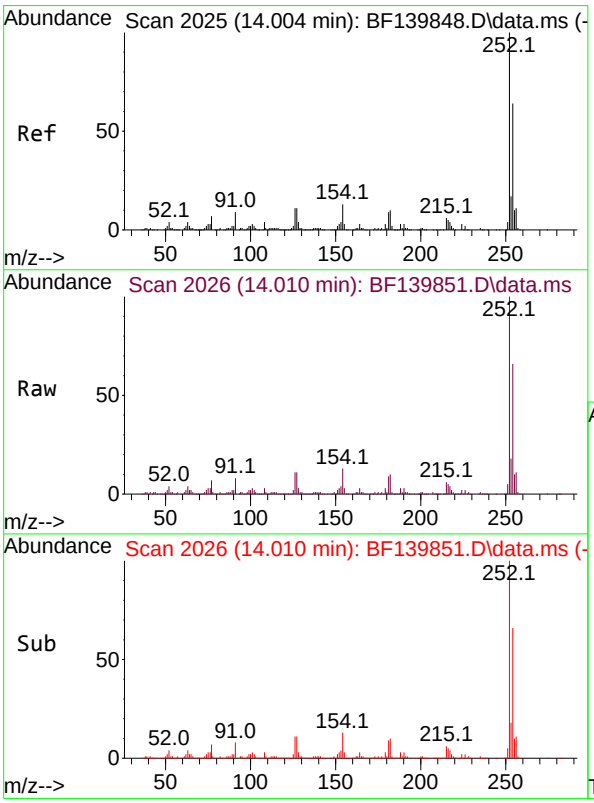
Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.6	32.4
229	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

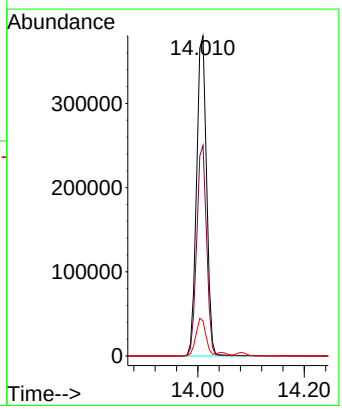
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

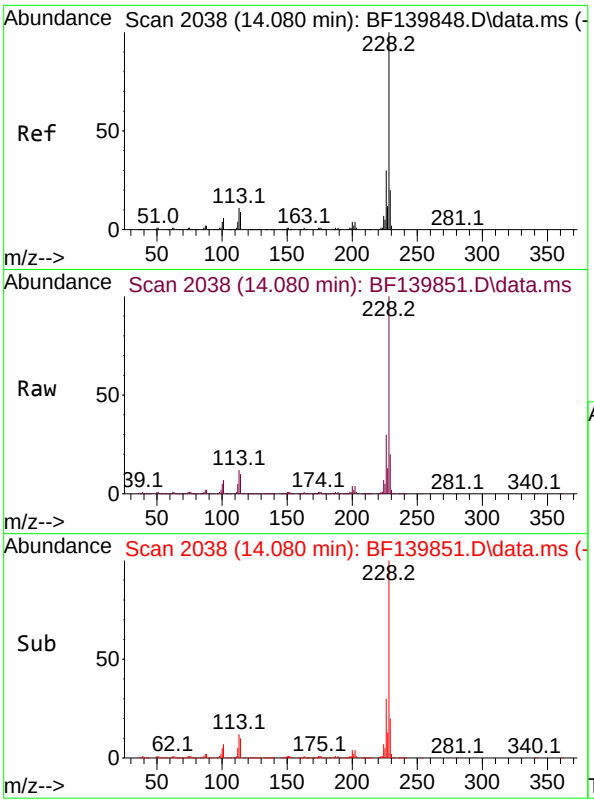


#82
3,3'-Dichlorobenzidine
Concen: 80.937 ng
RT: 14.010 min Scan# 2026
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:252 Resp: 496976

Ion	Ratio	Lower	Upper
252	100		
254	65.7	50.8	76.2
126	11.0	8.9	13.3

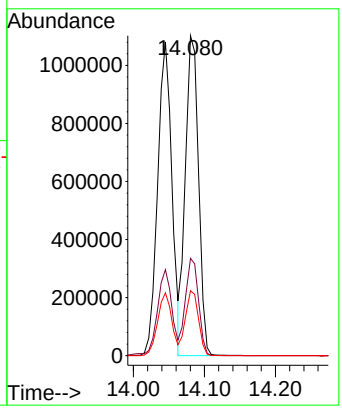




#83
Chrysene
Concen: 73.774 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:228 Resp: 142452

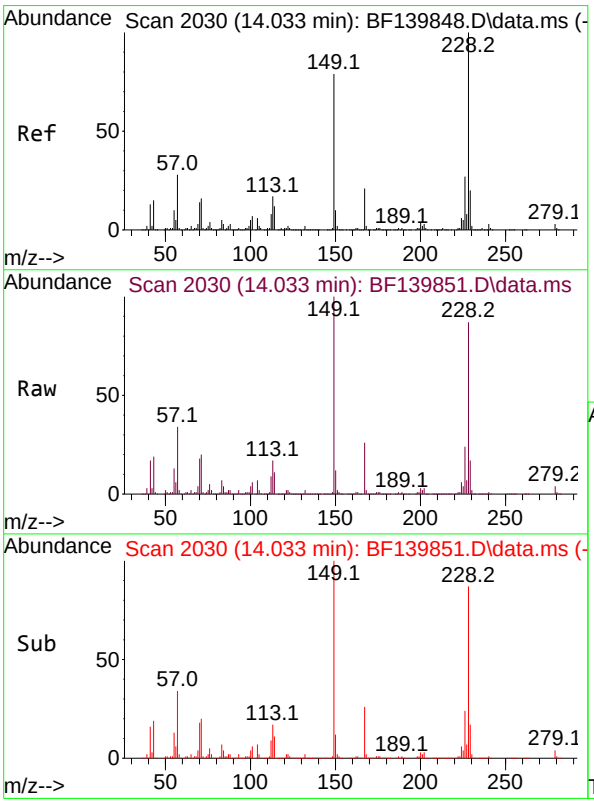
Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.1	36.1
229	20.3	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

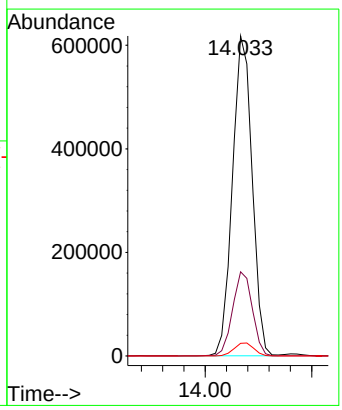
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

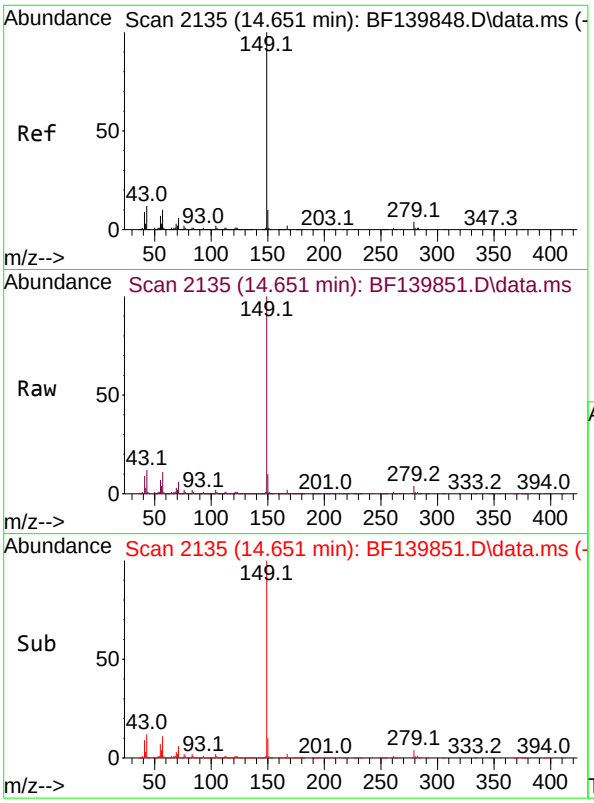


#84
Bis(2-ethylhexyl)phthalate
Concen: 83.399 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:149 Resp: 794387

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.4	32.0
279	4.0	3.0	4.4





#85
Di-n-octyl phthalate
Concen: 88.561 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

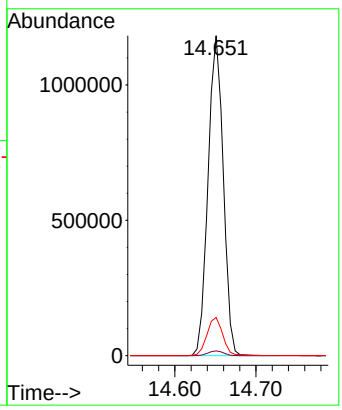
Tgt Ion:149 Resp: 153433

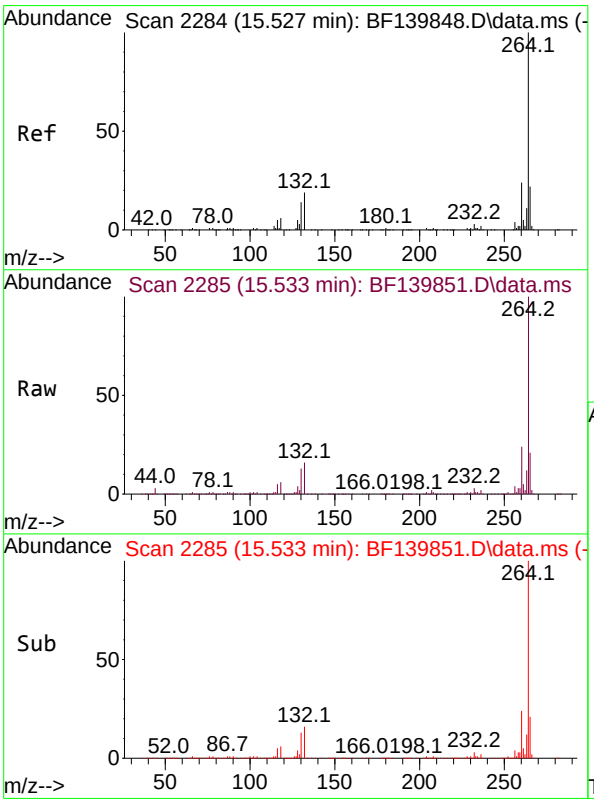
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	12.4	9.8	14.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

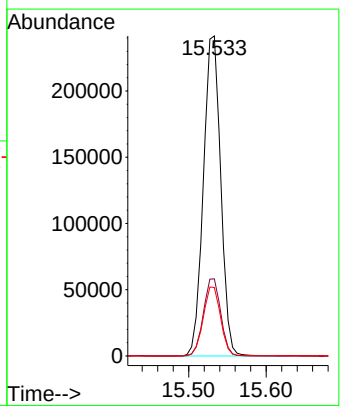


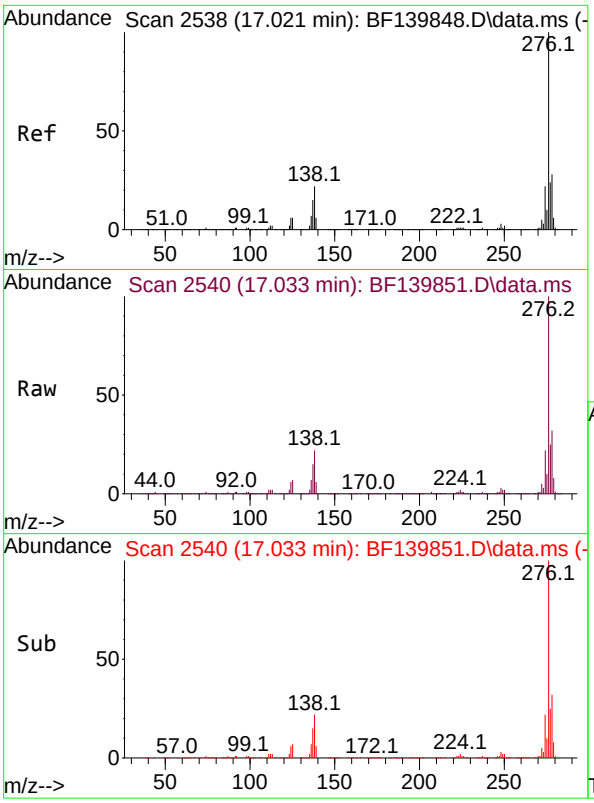


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:264 Resp: 374491

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.4	29.2
265	21.4	17.4	26.0

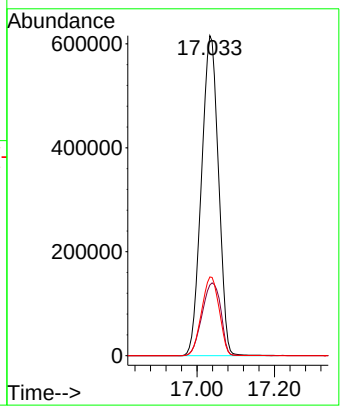




#87
Indeno(1,2,3-cd)pyrene
Concen: 77.935 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:276 Resp: 187761

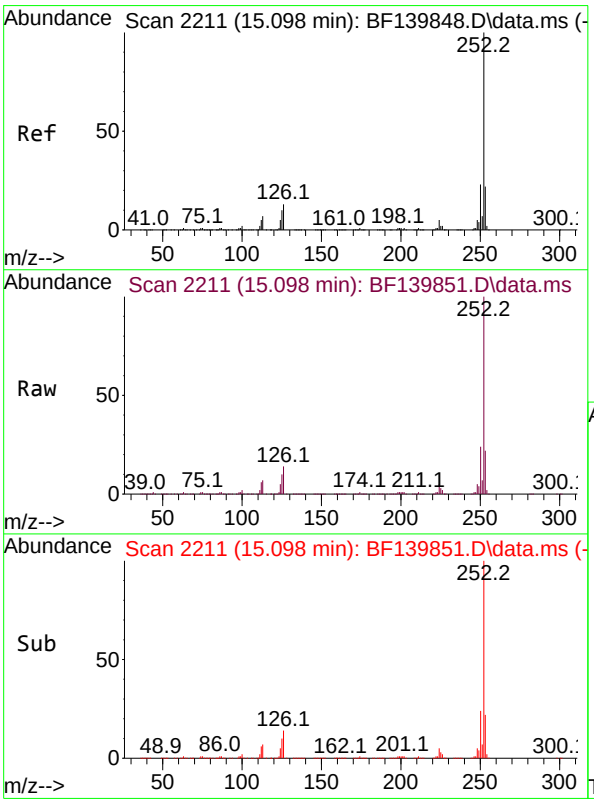
Ion	Ratio	Lower	Upper
276	100		
138	25.1	20.4	30.6
277	25.4	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

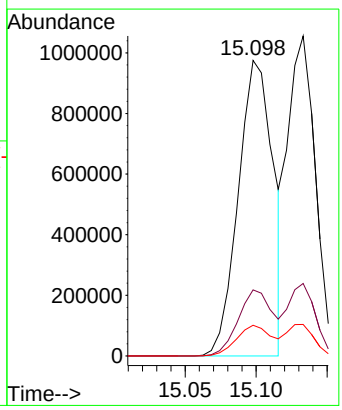
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

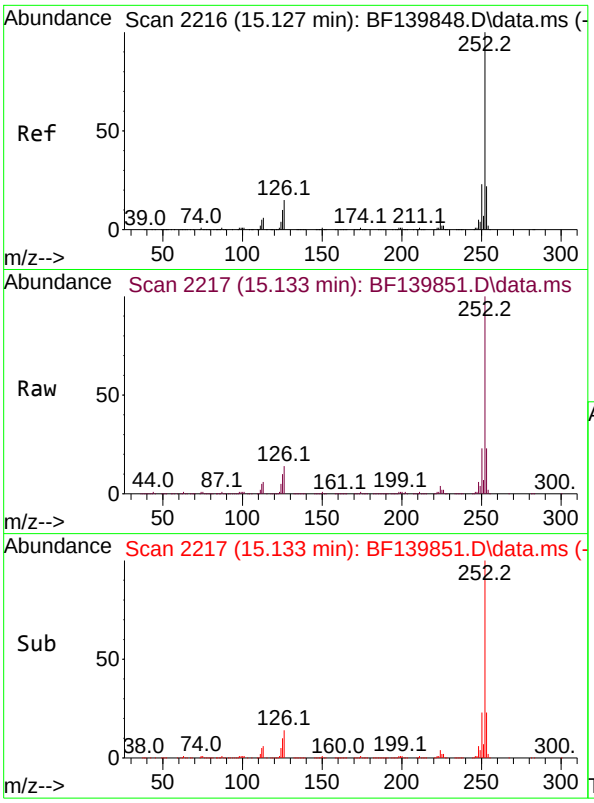


#88
Benzo(b)fluoranthene
Concen: 72.980 ng
RT: 15.098 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:252 Resp: 1664856

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.6	26.4
125	10.4	7.9	11.9

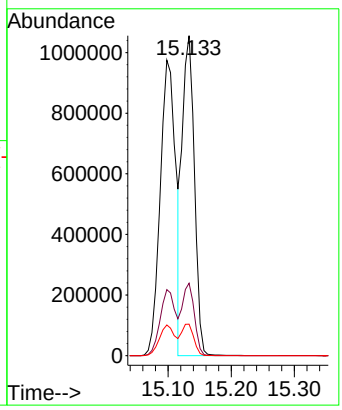




#89
Benzo(k)fluoranthene
Concen: 72.134 ng
RT: 15.133 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:252 Resp: 141915

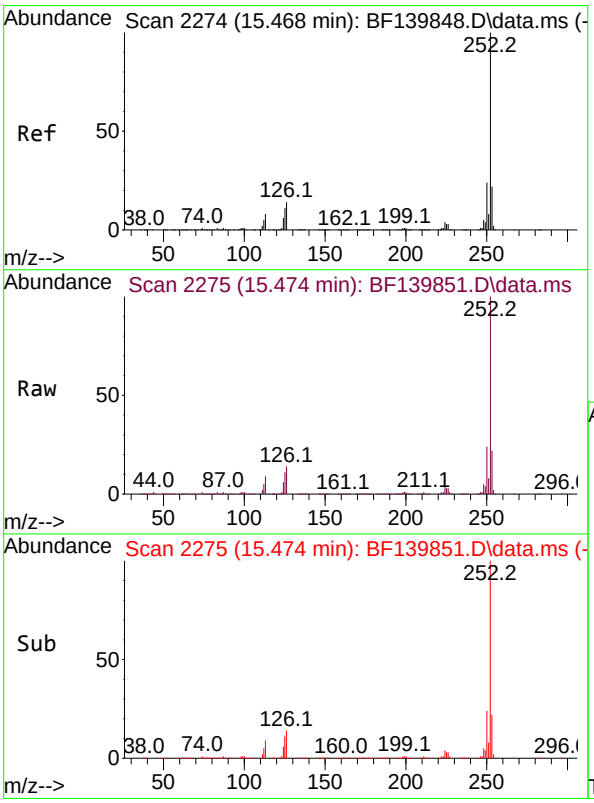
Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.6	26.4
125	9.9	7.9	11.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

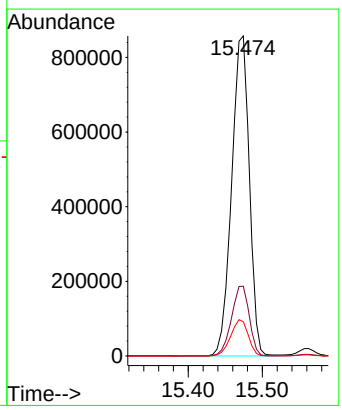
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

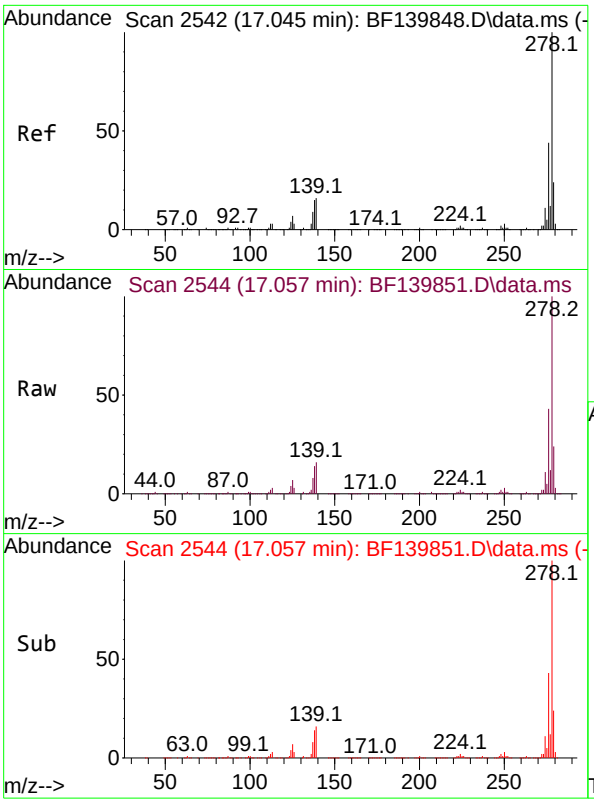


#90
Benzo(a)pyrene
Concen: 75.598 ng
RT: 15.474 min Scan# 2275
Delta R.T. 0.006 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:252 Resp: 1419026

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9
125	10.7	8.7	13.1

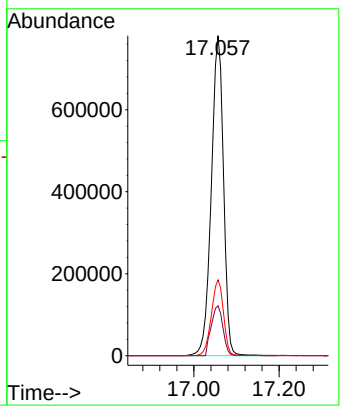




#91
Dibenzo(a,h)anthracene
Concen: 77.226 ng
RT: 17.057 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:278 Resp: 155209

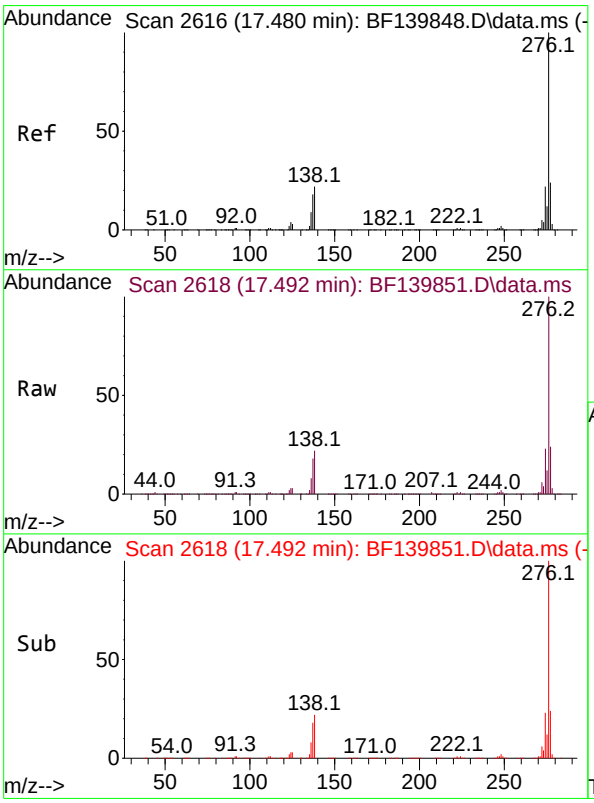
Ion	Ratio	Lower	Upper
278	100		
139	15.6	13.1	19.7
279	23.7	19.0	28.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

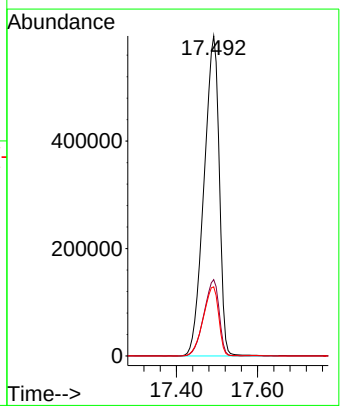
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



#92
Benzo(g,h,i)perylene
Concen: 77.240 ng
RT: 17.492 min Scan# 2618
Delta R.T. 0.012 min
Lab File: BF139851.D
Acq: 18 Oct 2024 13:46

Tgt Ion:276 Resp: 1550622

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.0	28.6
138	21.6	17.4	26.0



Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024

Calibration Time(s): 09:01 12:48

LAB FILE ID: RRF2.5 = BF140332.D RRF005 = BF140333.D RRF010 = BF140334.D
RRF020 = BF140335.D RRF050 = BF140337.D RRF060 = BF140338.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
n-Nitrosodimethylamine		0.658	0.632	0.651	0.644	0.671	0.649	2.4
Pyridine		1.430	1.343	1.323	1.189	1.237	1.283	7.6
2-Fluorophenol		1.329	1.257	1.223	1.090	1.118	1.171	8.8
Benzaldehyde		1.101	1.087	1.017	0.828	0.783	0.951	14.3
Aniline		1.587	1.527	1.495	1.267	1.270	1.381	13.4
Phenol-d6		1.773	1.691	1.643	1.483	1.507	1.587	8.1
Phenol		1.799	1.793	1.743	1.582	1.597	1.674	7.3
bis(2-Chloroethyl)ether		1.359	1.294	1.306	1.227	1.249	1.268	4.6
2-Chlorophenol		1.397	1.349	1.332	1.176	1.184	1.258	8.5
1,2-Dichlorobenzene		1.494	1.429	1.398	1.212	1.214	1.307	10.6
1,3-Dichlorobenzene		1.585	1.475	1.454	1.291	1.317	1.388	9.0
1,4-Dichlorobenzene		1.590	1.534	1.486	1.306	1.326	1.408	9.5
Benzyl Alcohol		1.172	1.193	1.199	1.100	1.108	1.143	6.1
2-Methylphenol		1.092	1.062	1.072	0.998	1.016	1.035	5.1
2,2-oxybis(1-Chloropropane)		1.906	1.826	1.815	1.666	1.684	1.752	7.0
Acetophenone		0.532	0.508	0.481	0.434	0.441	0.465	9.4
3+4-Methylphenols		1.436	1.427	1.359	1.200	1.198	1.295	10.2
n-Nitroso-di-n-propylamine	1.032	1.029	1.003	0.986	0.883	0.905	0.959	7.3
Nitrobenzene-d5		0.411	0.401	0.399	0.368	0.379	0.384	5.3
Hexachloroethane		0.562	0.543	0.550	0.500	0.506	0.520	6.3
Nitrobenzene		0.423	0.421	0.406	0.390	0.394	0.400	4.6
Isophorone		0.736	0.702	0.692	0.654	0.671	0.680	4.9
2-Nitrophenol		0.175	0.179	0.181	0.175	0.181	0.177	2.0
2,4-Dimethylphenol		0.238	0.236	0.232	0.221	0.227	0.227	3.9
bis(2-Chloroethoxy)methane		0.461	0.442	0.430	0.398	0.404	0.417	6.8
2,4-Dichlorophenol		0.307	0.296	0.287	0.272	0.272	0.281	6.2
1,2,4-Trichlorobenzene		0.346	0.331	0.325	0.298	0.301	0.312	7.1
Benzoic acid		0.162	0.178	0.180	0.215	0.226	0.200	13.0
Naphthalene		1.160	1.105	1.064	0.950	0.955	1.015	9.6
4-Chloroaniline		0.390	0.386	0.370	0.333	0.340	0.353	8.4
Hexachlorobutadiene		0.220	0.214	0.210	0.188	0.190	0.199	7.7
Caprolactam		0.098	0.093	0.094	0.091	0.095	0.093	3.3
4-Chloro-3-methylphenol		0.331	0.327	0.320	0.299	0.304	0.311	5.1
2-Methylnaphthalene		0.751	0.706	0.683	0.610	0.607	0.651	10.0

All other compounds must meet a minimum RRF of 0.010.

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024

Calibration Time(s): 09:01 12:48

LAB FILE ID: RRF2.5 = BF140332.D RRF005 = BF140333.D RRF010 = BF140334.D
RRF020 = BF140335.D RRF050 = BF140337.D RRF060 = BF140338.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
Hexachlorocyclopentadiene			0.111	0.143	0.156	0.159	0.142	12.0
2,4,6-Trichlorophenol		0.380	0.374	0.374	0.360	0.352	0.363	3.9
2-Fluorobiphenyl		1.524	1.396	1.351	1.125	1.110	1.244	14.5
2,4,5-Trichlorophenol		0.421	0.417	0.412	0.387	0.390	0.397	5.4
1,1-Biphenyl		1.690	1.571	1.565	1.368	1.343	1.455	10.8
2-Chloronaphthalene		1.279	1.182	1.149	1.064	1.049	1.108	9.2
2-Nitroaniline		0.378	0.365	0.384	0.365	0.366	0.368	2.9
Dimethylphthalate		1.464	1.358	1.371	1.246	1.244	1.304	7.5
Acenaphthylene		1.940	1.802	1.786	1.582	1.552	1.677	10.3
2,6-Dinitrotoluene		0.317	0.303	0.313	0.291	0.289	0.297	5.6
3-Nitroaniline		0.333	0.327	0.335	0.307	0.298	0.312	6.9
Acenaphthene		1.259	1.204	1.192	1.091	1.079	1.133	7.8
2,4-Dinitrophenol			0.109	0.148	0.178	0.170	0.153	16.3
4-Nitrophenol		0.199	0.217	0.239	0.240	0.237	0.228	6.7
Dibenzofuran		1.904	1.736	1.715	1.502	1.466	1.603	11.9
2,4-Dinitrotoluene		0.414	0.400	0.417	0.387	0.382	0.391	5.8
Diethylphthalate		1.525	1.417	1.398	1.272	1.246	1.333	8.8
4-Chlorophenyl-phenylether		0.739	0.688	0.669	0.583	0.567	0.625	12.0
Fluorene		1.525	1.403	1.365	1.168	1.137	1.267	13.1
4-Nitroaniline		0.335	0.325	0.328	0.316	0.313	0.319	3.9
4,6-Dinitro-2-methylphenol		0.080	0.098	0.113	0.117	0.120	0.108	13.0
n-Nitrosodiphenylamine		0.651	0.630	0.600	0.541	0.541	0.578	8.6
Azobenzene		1.498	1.391	1.380	1.251	1.244	1.317	8.6
2,4,6-Tribromophenol		0.220	0.211	0.207	0.191	0.189	0.199	6.9
4-Bromophenyl-phenylether		0.227	0.210	0.209	0.191	0.188	0.200	8.1
Hexachlorobenzene		0.251	0.242	0.232	0.209	0.215	0.225	7.5
Atrazine		0.191	0.183	0.135	0.155	0.205	0.175	17.0
Pentachlorophenol		0.097	0.108	0.124	0.131	0.130	0.121	10.9
Phenanthrene		1.096	1.053	0.986	0.868	0.851	0.940	11.3
Anthracene		1.071	1.018	0.966	0.860	0.839	0.921	10.8
Carbazole		1.053	1.009	0.963	0.846	0.834	0.909	11.0
Di-n-butylphthalate		1.214	1.177	1.150	1.036	1.023	1.091	8.4
Fluoranthene		1.256	1.201	1.141	0.962	0.933	1.054	13.9
Benzidine			0.634	0.684	0.742	0.953	0.768	18.6
Pyrene		1.748	1.706	1.643	1.728	1.800	1.711	3.1

All other compounds must meet a minimum RRF of 0.010.

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024

Calibration Time(s): 09:01 12:48

LAB FILE ID: RRF2.5 = BF140332.D RRF005 = BF140333.D RRF010 = BF140334.D
RRF020 = BF140335.D RRF050 = BF140337.D RRF060 = BF140338.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
Terphenyl-d14		1.226	1.185	1.108	1.139	1.190	1.152	4.3
Butylbenzylphthalate		0.640	0.638	0.654	0.670	0.681	0.657	3.6
3,3-Dichlorobenzidine		0.438	0.431	0.433	0.406	0.416	0.418	3.8
Benzo(a)anthracene		1.451	1.418	1.351	1.229	1.294	1.314	7.3
Chrysene		1.394	1.241	1.235	1.137	1.123	1.199	8.4
Bis(2-ethylhexyl)phthalate		0.886	0.890	0.897	0.858	0.869	0.877	4.1
Di-n-octyl phthalate		1.231	1.217	1.270	1.187	1.241	1.235	2.9
Benzo(b)fluoranthene		1.405	1.352	1.471	1.235	1.233	1.308	7.8
Benzo(k)fluoranthene		1.286	1.241	1.120	0.952	0.935	1.069	14.5
Benzo(a)pyrene		1.100	1.053	1.054	0.970	0.980	1.016	5.4
Indeno(1,2,3-cd)pyrene		1.116	1.150	1.138	1.316	1.354	1.235	8.0
Dibenzo(a,h)anthracene		0.941	0.952	0.944	1.074	1.121	1.021	7.3
Benzo(g,h,i)perylene		0.941	0.963	0.954	1.122	1.146	1.044	8.5
1,2,4,5-Tetrachlorobenzene		0.646	0.585	0.583	0.524	0.517	0.553	9.8
1,4-Dioxane		0.582	0.546	0.530	0.495	0.506	0.522	6.5
2,3,4,6-Tetrachlorophenol		0.322	0.328	0.326	0.308	0.302	0.313	4.6
1-Methylnaphthalene		0.734	0.696	0.673	0.589	0.592	0.637	10.4

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF1403
39.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.582	0.546	0.530	0.515	0.495	0.506	0.480	0.522	6.53
3)		Pyridine		1.430	1.343	1.323	1.316	1.189	1.237	1.147	1.283	7.61
4)		n-Nitrosodimet...		0.658	0.632	0.651	0.659	0.644	0.671	0.627	0.649	2.39
5)	S	2-Fluorophenol		1.329	1.257	1.223	1.150	1.090	1.118	1.032	1.171	8.84
6)		Aniline		1.587	1.527	1.495	1.451	1.267	1.270	1.066	1.381	13.42
7)	S	Phenol-d6		1.773	1.691	1.643	1.605	1.483	1.507	1.407	1.587	8.09
8)		2-Chlorophenol		1.397	1.349	1.332	1.263	1.176	1.184	1.106	1.258	8.49
9)		Benzaldehyde		1.101	1.087	1.017	0.891	0.828	0.783		0.951	14.32
10)	C	Phenol		1.799	1.793	1.743	1.724	1.582	1.597	1.478	1.674	7.31
11)		bis(2-Chloroet...		1.359	1.294	1.306	1.263	1.227	1.249	1.179	1.268	4.60
12)		1,3-Dichlorobe...		1.585	1.475	1.454	1.374	1.291	1.317	1.221	1.388	8.98
13)	C	1,4-Dichlorobe...		1.590	1.534	1.486	1.391	1.306	1.326	1.221	1.408	9.49
14)		1,2-Dichlorobe...		1.494	1.429	1.398	1.294	1.212	1.214	1.108	1.307	10.63
15)		Benzyl Alcohol		1.172	1.193	1.199	1.211	1.100	1.108	1.020	1.143	6.10
16)		2,2'-oxybis(1-...		1.906	1.826	1.815	1.816	1.666	1.684	1.549	1.752	7.01
17)		2-Methylphenol		1.092	1.062	1.072	1.064	0.998	1.016	0.942	1.035	5.07
18)		Hexachloroethane		0.562	0.543	0.550	0.514	0.500	0.506	0.468	0.520	6.30
19)	P	n-Nitroso-di-n...	1.032	1.029	1.003	0.986	0.982	0.883	0.905	0.848	0.959	7.30
20)		3+4-Methylphenols		1.436	1.427	1.359	1.351	1.200	1.198	1.091	1.294	10.21
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.532	0.508	0.481	0.450	0.434	0.441	0.411	0.465	9.35
23)	S	Nitrobenzene-d5		0.411	0.401	0.399	0.375	0.368	0.379	0.354	0.384	5.28
24)		Nitrobenzene		0.423	0.421	0.406	0.393	0.390	0.394	0.371	0.400	4.61
25)		Isophorone		0.736	0.702	0.692	0.674	0.654	0.671	0.634	0.680	4.87
26)	C	2-Nitrophenol		0.175	0.179	0.181	0.179	0.175	0.181	0.171	0.177	1.99
27)		2,4-Dimethylph...		0.238	0.236	0.232	0.223	0.221	0.227	0.214	0.227	3.86
28)		bis(2-Chloroet...		0.461	0.442	0.430	0.407	0.398	0.404	0.379	0.417	6.80
29)	C	2,4-Dichloroph...		0.307	0.296	0.287	0.275	0.272	0.272	0.255	0.281	6.20
30)		1,2,4-Trichlor...		0.346	0.331	0.325	0.302	0.298	0.301	0.283	0.312	7.15
31)		Naphthalene		1.160	1.105	1.064	0.982	0.950	0.955	0.886	1.015	9.60
32)		Benzoic acid		0.162	0.178	0.180	0.212	0.215	0.226	0.226	0.200	13.01
33)		4-Chloroaniline		0.390	0.386	0.370	0.340	0.333	0.340	0.311	0.353	8.36
34)	C	Hexachlorobuta...		0.220	0.214	0.210	0.193	0.188	0.190	0.178	0.199	7.73
35)		Caprolactam		0.098	0.093	0.094	0.092	0.091	0.095	0.089	0.093	3.27
36)	C	4-Chloro-3-met...		0.331	0.327	0.320	0.309	0.299	0.304	0.287	0.311	5.14
37)		2-Methylnaphth...		0.751	0.706	0.683	0.632	0.610	0.607	0.565	0.651	10.01
38)		1-Methylnaphth...		0.734	0.696	0.673	0.625	0.589	0.592	0.550	0.637	10.39

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.646	0.585	0.583	0.531	0.524	0.517	0.485	0.553	9.85
41)	P	Hexachlorocycl...		0.111	0.143	0.139	0.156	0.159	0.145	0.142	12.04
42)	S	2,4,6-Tribromo...	0.220	0.211	0.207	0.193	0.191	0.189	0.182	0.199	6.88
43)	C	2,4,6-Trichlor...	0.380	0.374	0.374	0.360	0.360	0.352	0.341	0.363	3.87
44)		2,4,5-Trichlor...	0.421	0.417	0.412	0.389	0.387	0.390	0.361	0.397	5.41
45)	S	2-Fluorobiphenyl	1.524	1.396	1.351	1.172	1.125	1.110	1.031	1.244	14.50
46)		1,1'-Biphenyl	1.690	1.571	1.565	1.404	1.368	1.343	1.244	1.455	10.80
47)		2-Chloronaphth...	1.279	1.182	1.149	1.065	1.064	1.049	0.971	1.108	9.20
48)		2-Nitroaniline	0.378	0.365	0.384	0.364	0.365	0.366	0.351	0.368	2.91
49)		Acenaphthylene	1.940	1.802	1.786	1.636	1.582	1.552	1.441	1.677	10.29
50)		Dimethylphthalate	1.464	1.358	1.371	1.261	1.246	1.244	1.181	1.304	7.47
51)		2,6-Dinitrotol...	0.317	0.303	0.313	0.297	0.291	0.289	0.268	0.297	5.57
52)	C	Acenaphthene	1.259	1.204	1.192	1.096	1.091	1.079	1.006	1.133	7.78
53)		3-Nitroaniline	0.333	0.327	0.335	0.310	0.307	0.298	0.275	0.312	6.92
54)	P	2,4-Dinitrophenol		0.109	0.148	0.147	0.178	0.170	0.168	0.153	16.27
55)		Dibenzofuran	1.904	1.736	1.715	1.558	1.502	1.466	1.344	1.603	11.92
56)	P	4-Nitrophenol	0.199	0.217	0.239	0.236	0.240	0.237	0.225	0.228	6.67
57)		2,4-Dinitrotol...	0.414	0.400	0.417	0.387	0.387	0.382	0.351	0.391	5.77
58)		Fluorene	1.525	1.403	1.365	1.202	1.168	1.137	1.066	1.267	13.14
59)		2,3,4,6-Tetrac...	0.322	0.328	0.326	0.318	0.308	0.302	0.288	0.313	4.61
60)		Diethylphthalate	1.525	1.417	1.398	1.287	1.272	1.246	1.185	1.333	8.85
61)		4-Chlorophenyl...	0.739	0.688	0.669	0.604	0.583	0.567	0.528	0.625	12.01
62)		4-Nitroaniline	0.335	0.325	0.328	0.319	0.316	0.313	0.297	0.319	3.86
63)		Azobenzene	1.498	1.391	1.380	1.293	1.251	1.244	1.163	1.317	8.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.080	0.098	0.113	0.109	0.117	0.120	0.116	0.108	13.00
66)	c	n-Nitrosodiphe...	0.651	0.630	0.600	0.559	0.541	0.541	0.522	0.578	8.57
67)		4-Bromophenyl-...	0.227	0.210	0.209	0.194	0.191	0.188	0.180	0.200	8.14
68)		Hexachlorobenzene	0.251	0.242	0.232	0.218	0.209	0.215	0.208	0.225	7.54
69)		Atrazine	0.191	0.183	0.135	0.145	0.155	0.205	0.209	0.175	17.03
70)	C	Pentachlorophenol	0.097	0.108	0.124	0.127	0.131	0.130	0.130	0.121	10.87
71)		Phenanthrene	1.096	1.053	0.986	0.903	0.868	0.851	0.820	0.940	11.33
72)		Anthracene	1.071	1.018	0.966	0.889	0.860	0.839	0.803	0.921	10.81
73)		Carbazole	1.053	1.009	0.963	0.876	0.846	0.834	0.783	0.909	11.02
74)		Di-n-butylphth...	1.214	1.177	1.150	1.074	1.036	1.023	0.964	1.091	8.37
75)	C	Fluoranthene	1.256	1.201	1.141	1.018	0.962	0.933	0.867	1.054	13.92
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.634	0.684	0.653	0.742	0.953	0.939	0.768	18.64
78)		Pyrene	1.748	1.706	1.643	1.679	1.728	1.800	1.672	1.711	3.08
79)	S	Terphenyl-d14	1.226	1.185	1.108	1.123	1.139	1.190	1.093	1.152	4.26
80)		Butylbenzylpht...	0.640	0.638	0.654	0.690	0.670	0.681	0.628	0.657	3.56
81)		Benzo(a)anthra...	1.451	1.418	1.351	1.263	1.229	1.294	1.195	1.314	7.31
82)		3,3'-Dichlorob...	0.438	0.431	0.433	0.402	0.406	0.416	0.399	0.418	3.79
83)		Chrysene	1.394	1.241	1.235	1.168	1.137	1.123	1.099	1.199	8.44
84)		Bis(2-ethylhex...	0.886	0.890	0.897	0.927	0.858	0.869	0.813	0.877	4.07
85)	c	Di-n-octyl pht...	1.231	1.217	1.270	1.290	1.187	1.241	1.212	1.235	2.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

86)	I	Perylene-d12	----------ISTD----------								
87)		Indeno(1,2,3-c...	1.116	1.150	1.138	1.258	1.316	1.354	1.317	1.235	8.02
88)		Benzo(b)fluora...	1.405	1.352	1.471	1.263	1.235	1.233	1.199	1.308	7.82
89)		Benzo(k)fluora...	1.286	1.241	1.120	1.060	0.952	0.935	0.888	1.069	14.47
90)	C	Benzo(a)pyrene	1.100	1.053	1.054	1.005	0.970	0.980	0.948	1.016	5.40
91)		Dibenzo(a,h)an...	0.941	0.952	0.944	1.039	1.074	1.121	1.077	1.021	7.30
92)		Benzo(g,h,i)pe...	0.941	0.963	0.954	1.063	1.122	1.146	1.120	1.044	8.55

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140332.D
Acq On : 13 Nov 2024 09:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 13 14:21:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	147206	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	569357	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	324094	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	631650	20.000	ng	0.00
76) Chrysene-d12	14.057	240	473843	20.000	ng	0.00
86) Perylene-d12	15.574	264	387360	20.000	ng	0.02
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...	7.275	70	18995	2.692	ng	97

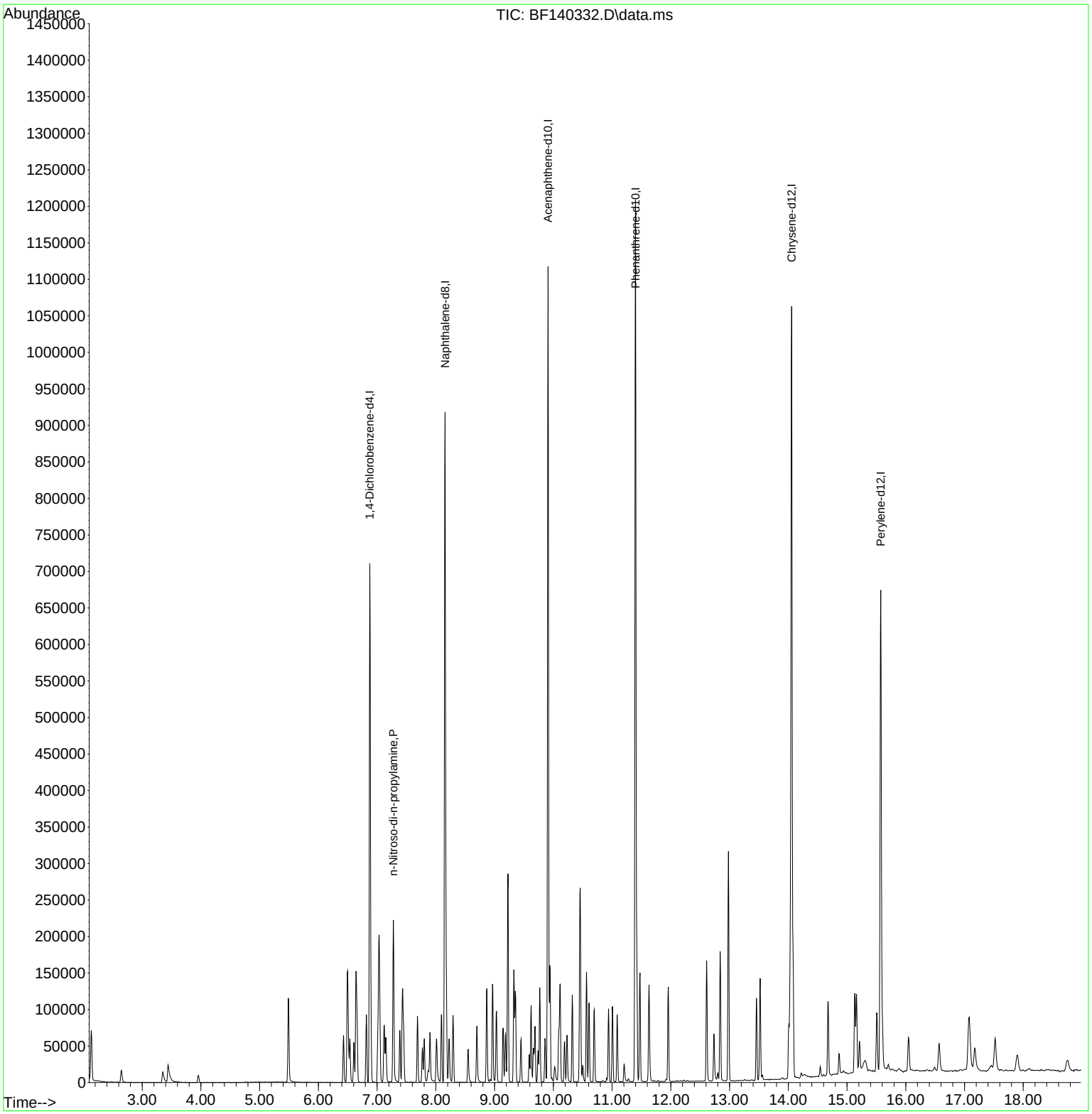
(#) = qualifier out of range (m) = manual integration (+) = signals summed

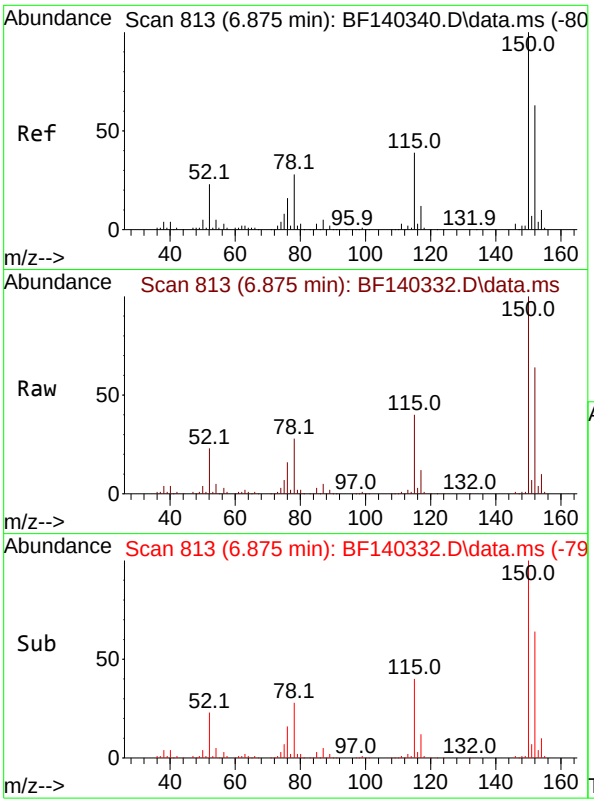
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140332.D
Acq On : 13 Nov 2024 09:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 13 14:21:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



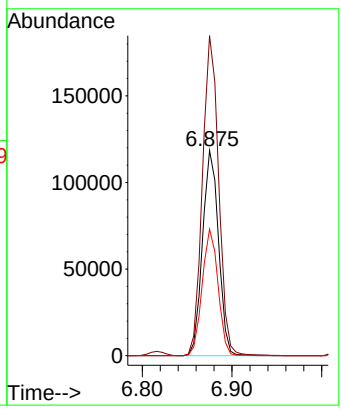


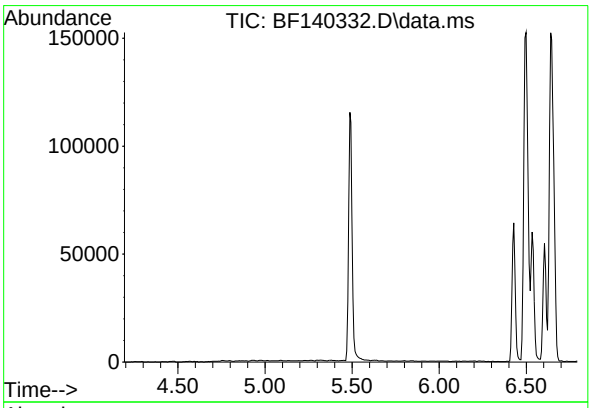
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 147206

Ion	Ratio	Lower	Upper
152	100		
150	156.0	127.4	191.0
115	61.7	47.4	71.2



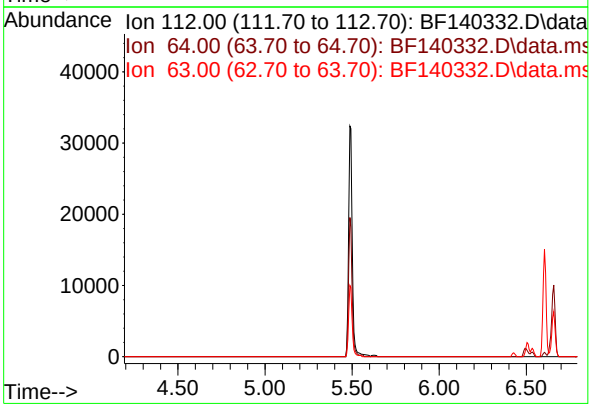


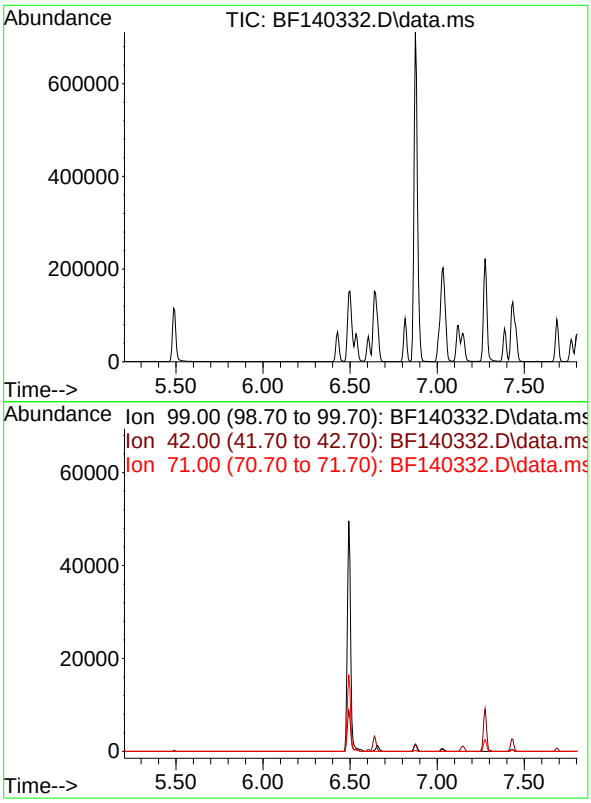
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.49 min

Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	61.5
63	32.0





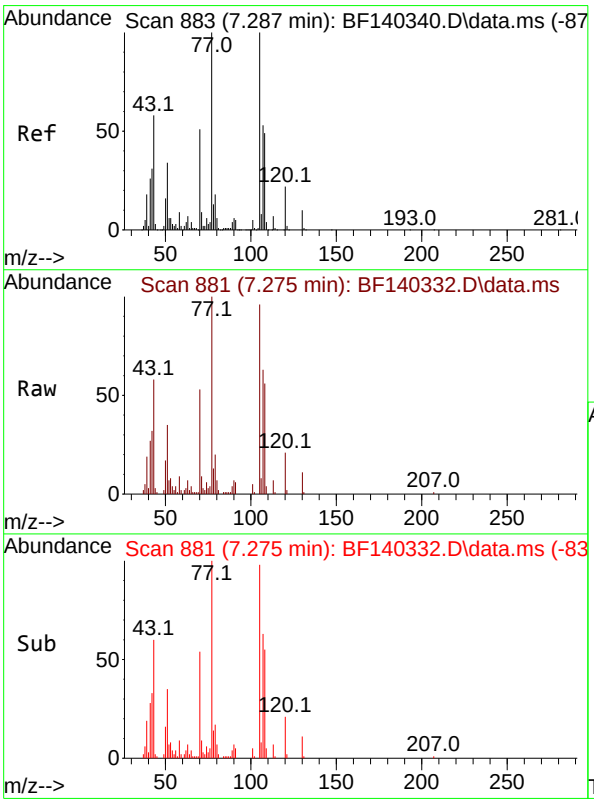
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.50 min

Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

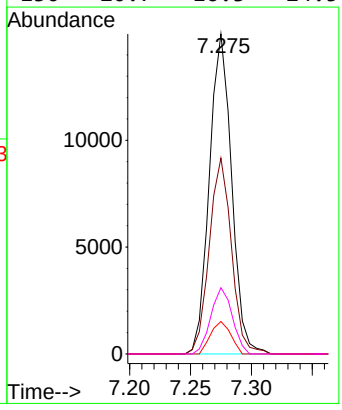
Sig	Exp Ratio
99	100
42	18.9
71	34.9

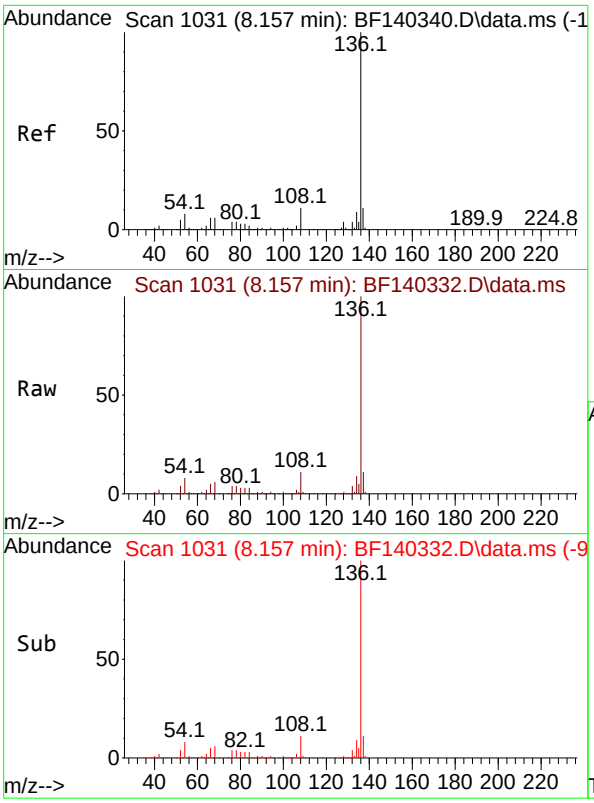


#19
n-Nitroso-di-n-propylamine
Concen: 2.692 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.018 min
Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Tgt Ion: 70 Resp: 18995

Ion	Ratio	Lower	Upper
70	100		
42	61.2	46.8	70.2
101	10.1	7.5	11.3
130	20.7	16.3	24.5



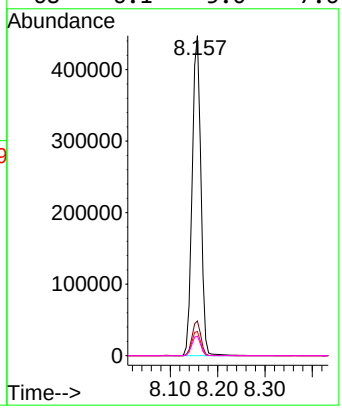


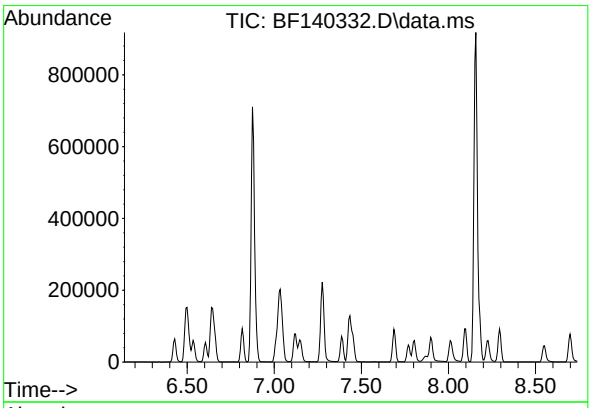
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 569357

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	7.6	6.5	9.7
68	6.1	5.0	7.6



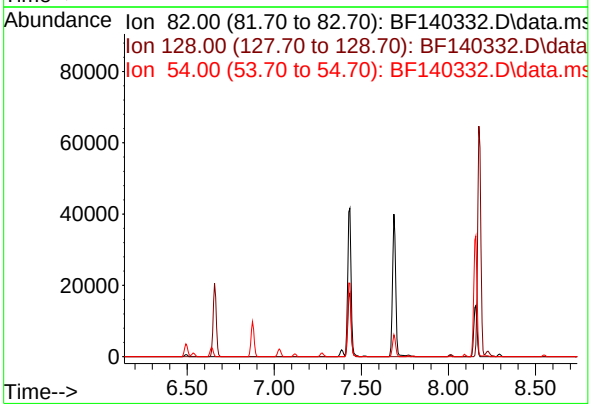


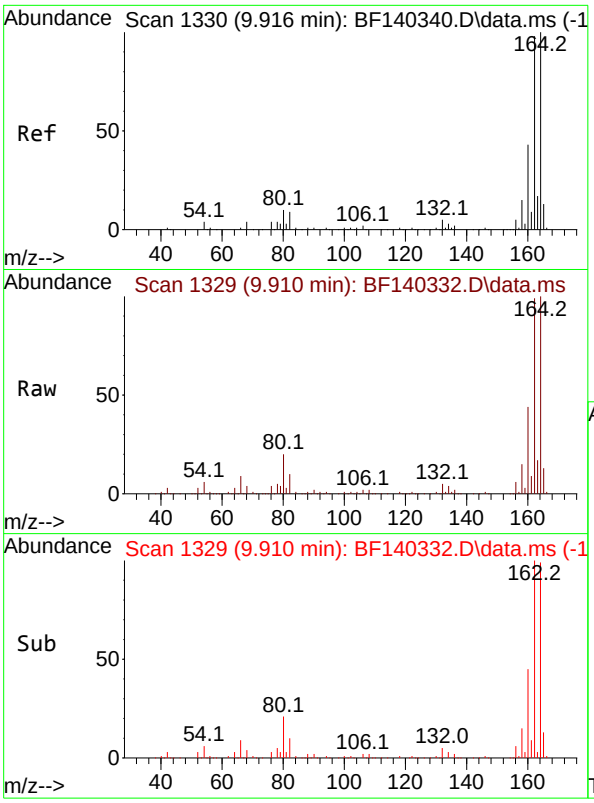
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.44 min

Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	41.6
54	49.8



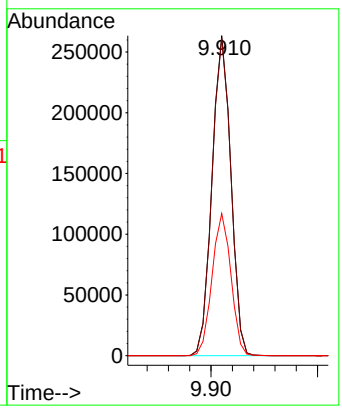


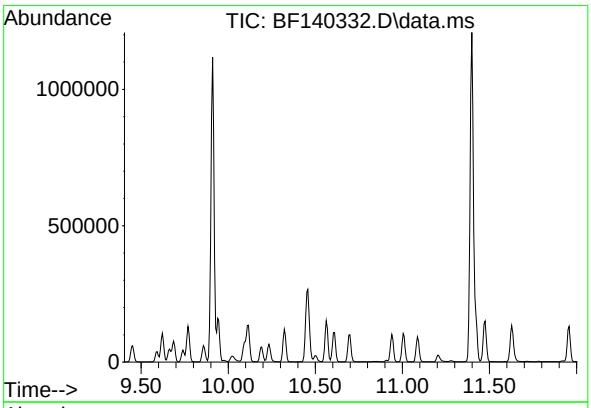
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 324094

Ion	Ratio	Lower	Upper
164	100		
162	99.2	79.8	119.8
160	44.4	35.4	53.0



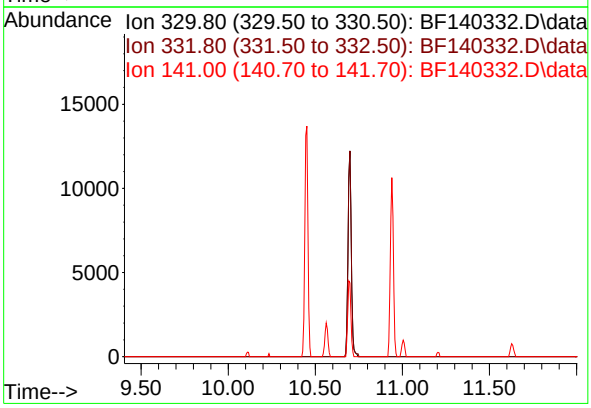


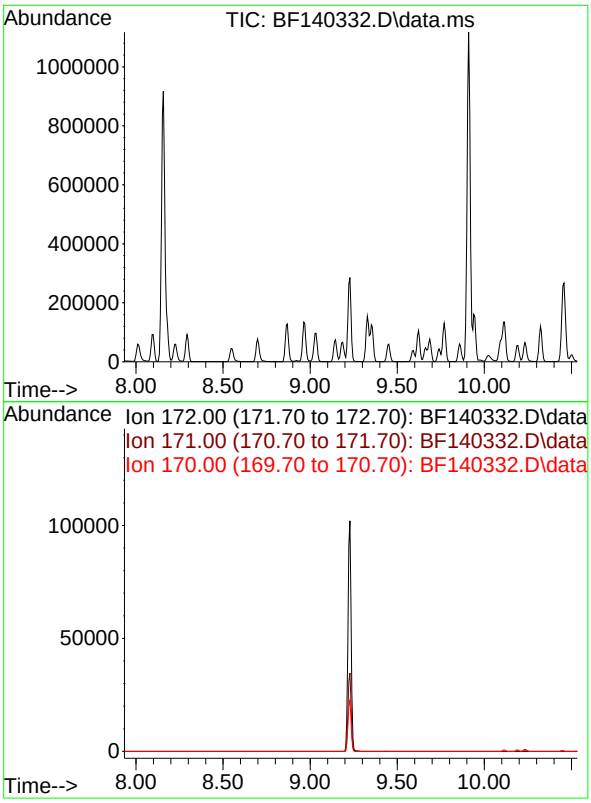
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.70 min

Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	94.9
141	33.6





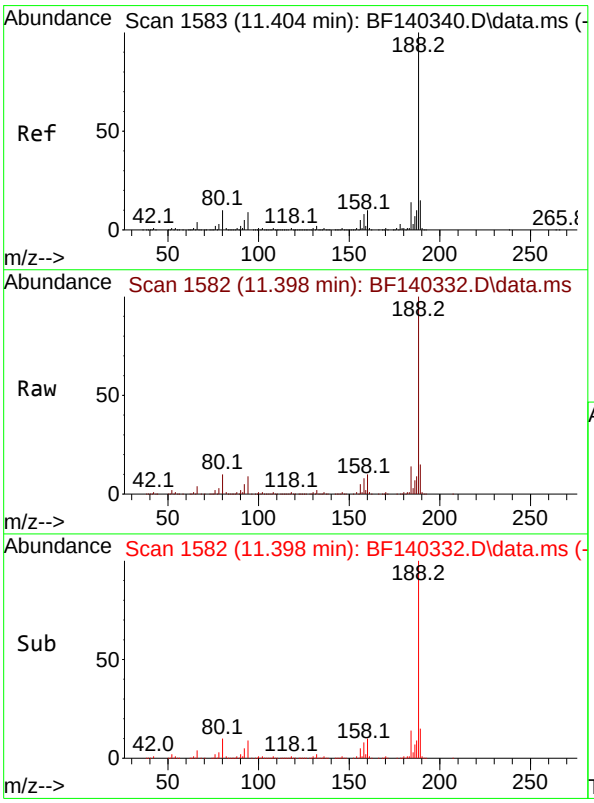
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.23 min

Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

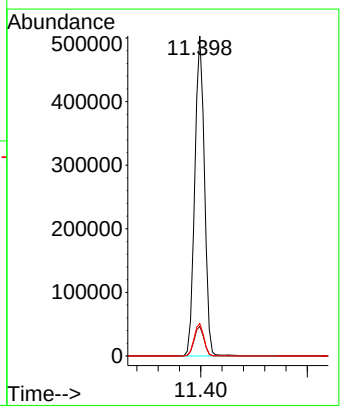
Sig	Exp Ratio
172	100
171	35.6
170	23.9

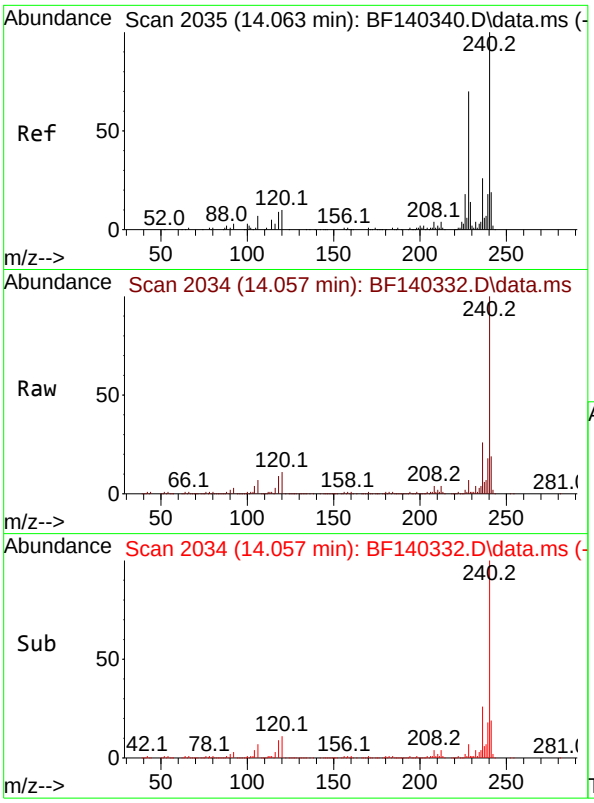


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Tgt Ion:188 Resp: 631650

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.6	11.4
80	10.2	8.0	12.0



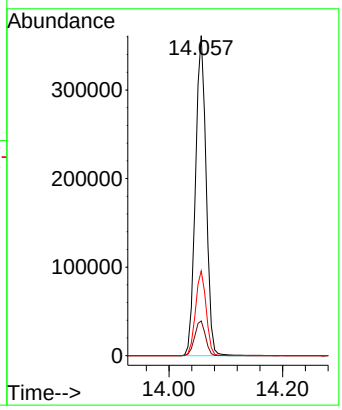


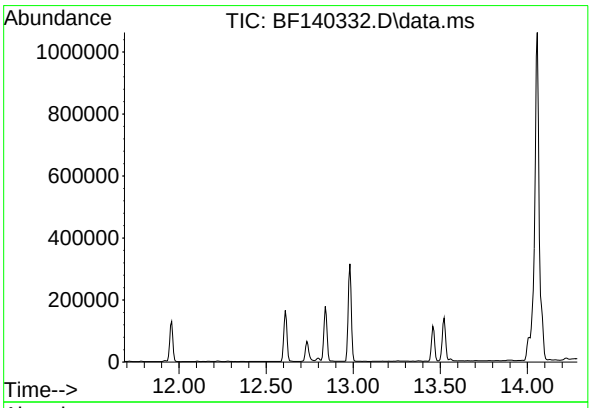
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 473843

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.8	13.2
236	26.5	20.9	31.3



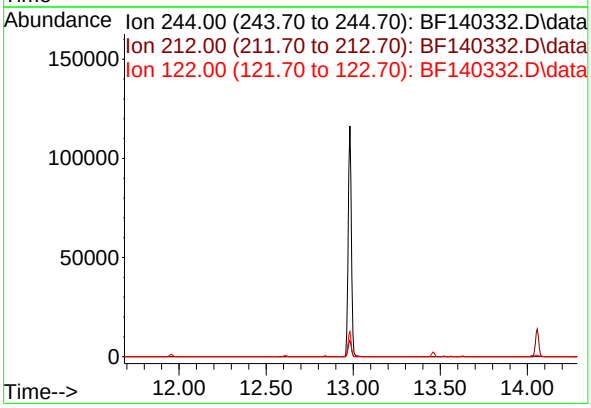


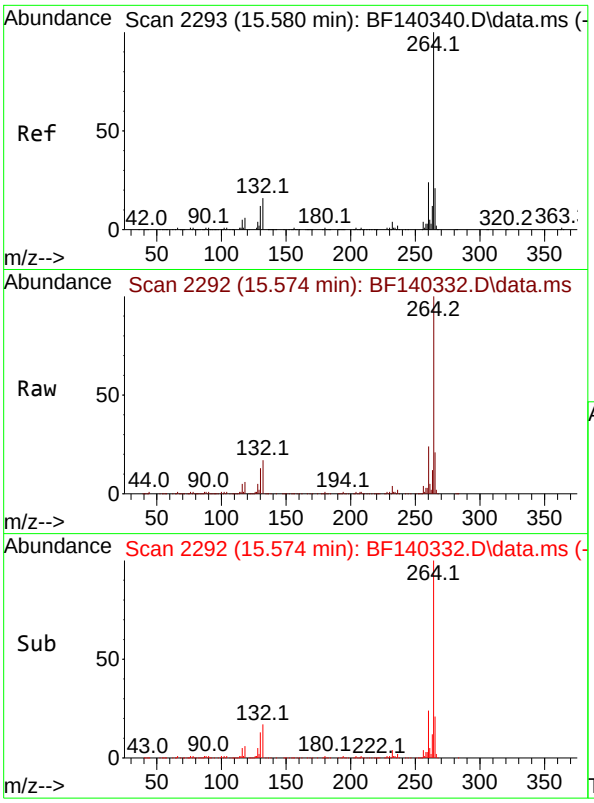
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.99 min

Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.3
122	11.0



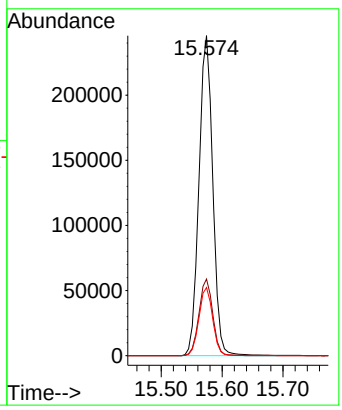


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140332.D
Acq: 13 Nov 2024 09:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 387360

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.3	17.1	25.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140333.D
Acq On : 13 Nov 2024 09:27
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 13 14:22:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	147440	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	561082	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	317345	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	615904	20.000	ng		0.00
76) Chrysene-d12	14.051	240	462864	20.000	ng		0.00
86) Perylene-d12	15.563	264	372118	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	98004	11.349	ng		0.00
7) Phenol-d6	6.493	99	130723	11.173	ng		-0.01
23) Nitrobenzene-d5	7.434	82	115292	10.706	ng		0.00
42) 2,4,6-Tribromophenol	10.698	330	34890	11.056	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	241751	12.246	ng		0.00
79) Terphenyl-d14	12.980	244	283824	10.644	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.640	88	21442	5.571	ng		95
3) Pyridine	3.422	79	52697	5.569	ng		98
4) n-Nitrosodimethylamine	3.346	42	24263	5.074	ng	#	97
6) Aniline	6.534	93	58498	5.748	ng		98
8) 2-Chlorophenol	6.657	128	51502	5.552	ng		99
9) Benzaldehyde	6.428	77	40600	5.790	ng		100
10) Phenol	6.504	94	66303	5.374	ng		99
11) bis(2-Chloroethyl)ether	6.604	93	50099	5.359	ng		97
12) 1,3-Dichlorobenzene	6.816	146	58435	5.709	ng		99
13) 1,4-Dichlorobenzene	6.893	146	58594	5.646	ng		99
14) 1,2-Dichlorobenzene	7.046	146	55054	5.714	ng		100
15) Benzyl Alcohol	7.010	79	43212	5.126	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.146	45	70257	5.441	ng		100
17) 2-Methylphenol	7.116	107	40243	5.274	ng		97
18) Hexachloroethane	7.387	117	20701	5.396	ng		97
19) n-Nitroso-di-n-propyla...	7.275	70	37919	5.366	ng		97
20) 3+4-Methylphenols	7.275	107	52942	5.548	ng	#	82
22) Acetophenone	7.281	105	74642	5.720	ng		95
24) Nitrobenzene	7.451	77	59394	5.297	ng		99
25) Isophorone	7.687	82	103224	5.409	ng		99
26) 2-Nitrophenol	7.769	139	24576	4.939	ng		99
27) 2,4-Dimethylphenol	7.804	122	33358	5.237	ng		97
28) bis(2-Chloroethoxy)met...	7.898	93	64672	5.526	ng		100
29) 2,4-Dichlorophenol	8.010	162	43077	5.472	ng		98
30) 1,2,4-Trichlorobenzene	8.098	180	48599	5.545	ng		99
31) Naphthalene	8.175	128	162710	5.717	ng		99
32) Benzoic acid	7.869	122	22671m	4.051	ng		
33) 4-Chloroaniline	8.222	127	54728	5.529	ng		99
34) Hexachlorobutadiene	8.293	225	30821	5.519	ng		99
35) Caprolactam	8.551	113	13807	5.217	ng		98
36) 4-Chloro-3-methylphenol	8.698	107	46450	5.324	ng		97
37) 2-Methylnaphthalene	8.869	142	105353	5.773	ng		97
38) 1-Methylnaphthalene	8.963	142	102975	5.762	ng		100
40) 1,2,4,5-Tetrachloroben...	9.034	216	51260	5.841	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	30173	5.239	ng		98
44) 2,4,5-Trichlorophenol	9.181	196	33434	5.310	ng		96

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140333.D
Acq On : 13 Nov 2024 09:27
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

Quant Time: Nov 13 14:22:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.328	154	134098	5.808	ng	98
47) 2-Chloronaphthalene	9.351	162	101447	5.768	ng	100
48) 2-Nitroaniline	9.451	65	29995	5.143	ng	100
49) Acenaphthylene	9.769	152	153886	5.783	ng	99
50) Dimethylphthalate	9.622	163	116132	5.614	ng	99
51) 2,6-Dinitrotoluene	9.687	165	25188	5.341	ng	98
52) Acenaphthene	9.939	154	99899	5.559	ng	98
53) 3-Nitroaniline	9.857	138	26407	5.332	ng	94
55) Dibenzofuran	10.116	168	151058	5.937	ng	97
56) 4-Nitrophenol	10.016	139	15801	4.374	ng	98
57) 2,4-Dinitrotoluene	10.092	165	32877	5.297	ng	98
58) Fluorene	10.457	166	121014	6.021	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.234	232	25576	5.149	ng	99
60) Diethylphthalate	10.322	149	120988	5.720	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	58593	5.905	ng	97
62) 4-Nitroaniline	10.463	138	26578	5.249	ng	96
63) Azobenzene	10.610	77	118816	5.685	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	12385	3.738	ng	96
66) n-Nitrosodiphenylamine	10.563	169	100287	5.636	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	34999	5.685	ng	96
68) Hexachlorobenzene	11.004	284	38627	5.576	ng	98
69) Atrazine	11.086	200	29460	5.472	ng	97
70) Pentachlorophenol	11.204	266	14987	4.016	ng	97
71) Phenanthrene	11.422	178	168742	5.832	ng	99
72) Anthracene	11.475	178	164923	5.816	ng	98
73) Carbazole	11.628	167	162080	5.789	ng	99
74) Di-n-butylphthalate	11.957	149	186931	5.563	ng	100
75) Fluoranthene	12.610	202	193346	5.956	ng	99
78) Pyrene	12.839	202	202260	5.109	ng	99
80) Butylbenzylphthalate	13.457	149	74075	4.870	ng	96
81) Benzo(a)anthracene	14.039	228	167855	5.518	ng	98
82) 3,3'-Dichlorobenzidine	14.004	252	50636	5.237	ng	98
83) Chrysene	14.074	228	161255	5.810	ng	98
84) Bis(2-ethylhexyl)phtha...	14.027	149	102534	5.051	ng	99
85) Di-n-octyl phthalate	14.663	149	142493	4.984	ng	100
87) Indeno(1,2,3-cd)pyrene	17.057	276	103830	4.517	ng	98
88) Benzo(b)fluoranthene	15.121	252	130731	5.371	ng	99
89) Benzo(k)fluoranthene	15.145	252	119602	6.014	ng	99
90) Benzo(a)pyrene	15.492	252	102364	5.415	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	87528	4.607	ng	99
92) Benzo(g,h,i)perylene	17.504	276	87547	4.507	ng	99

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

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140333.D
Acq On : 13 Nov 2024 09:27
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

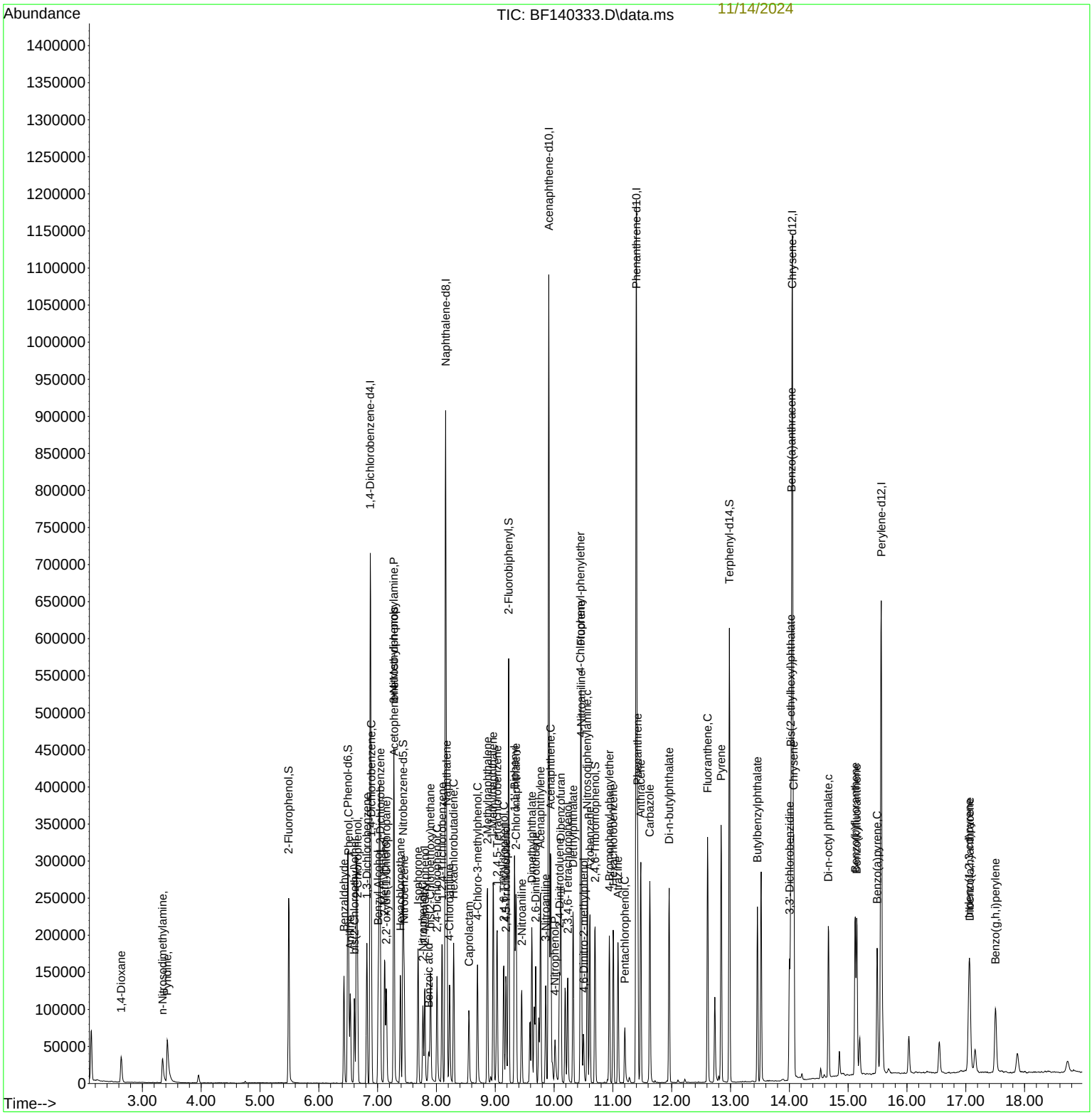
Quant Time: Nov 13 14:22:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

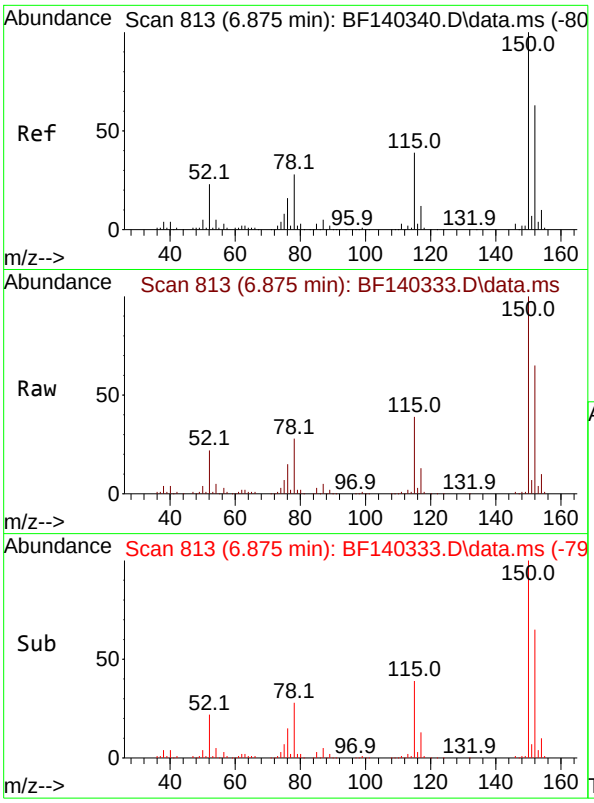
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

Supervised By :mohammad ahmed
11/14/2024

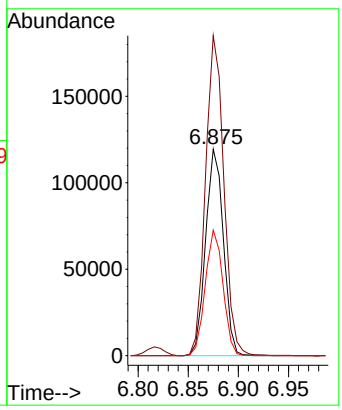




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:152 Resp: 14744

Ion	Ratio	Lower	Upper
152	100		
150	154.9	127.4	191.0
115	60.7	47.4	71.2

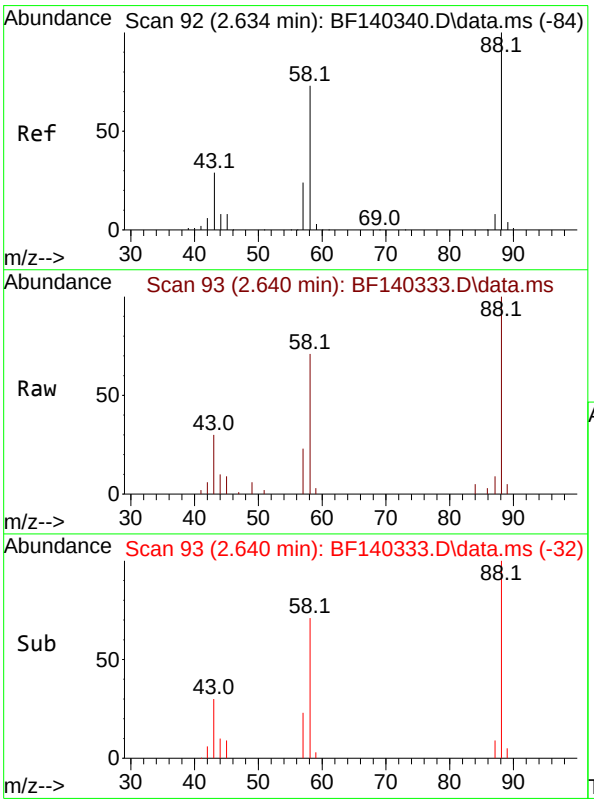


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

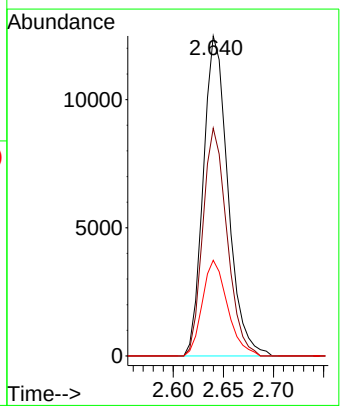
Supervised By :mohammad ahmed
11/14/2024

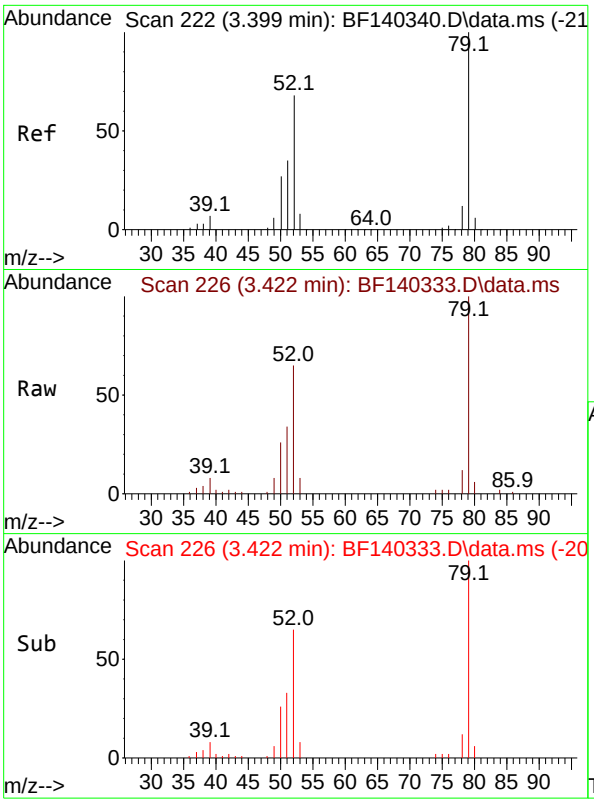


#2
1,4-Dioxane
Concen: 5.571 ng
RT: 2.640 min Scan# 93
Delta R.T. 0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 88 Resp: 21442

Ion	Ratio	Lower	Upper
88	100		
58	69.5	59.5	89.3
43	30.4	23.4	35.2

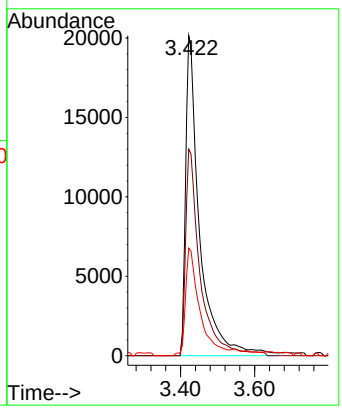




#3
Pyridine
Concen: 5.569 ng
RT: 3.422 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 79 Resp: 5269

Ion	Ratio	Lower	Upper
79	100		
52	64.5	53.8	80.6
51	33.6	27.3	40.9

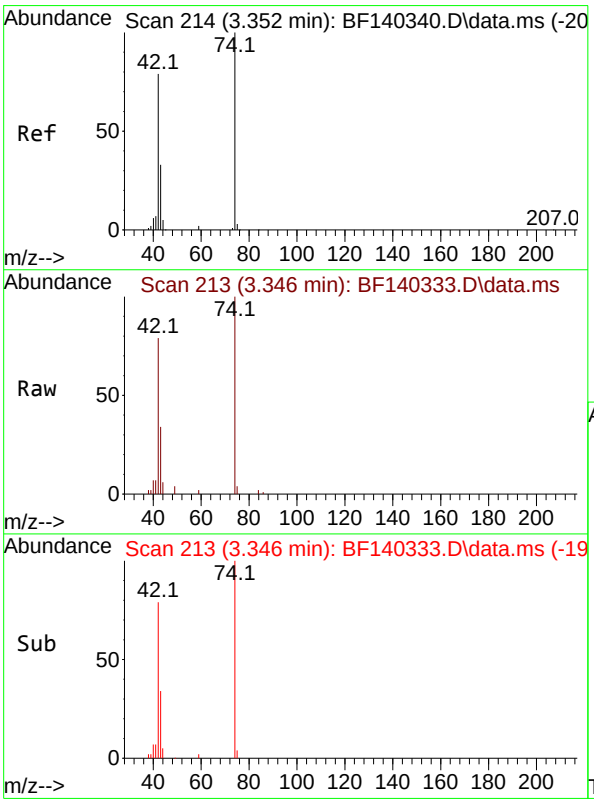


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

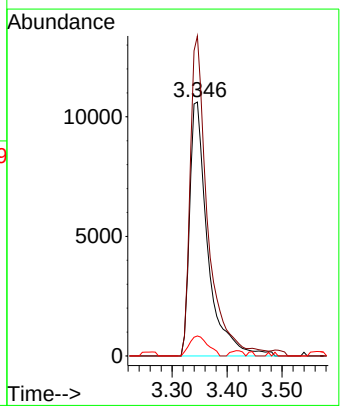
Supervised By :mohammad ahmed
11/14/2024

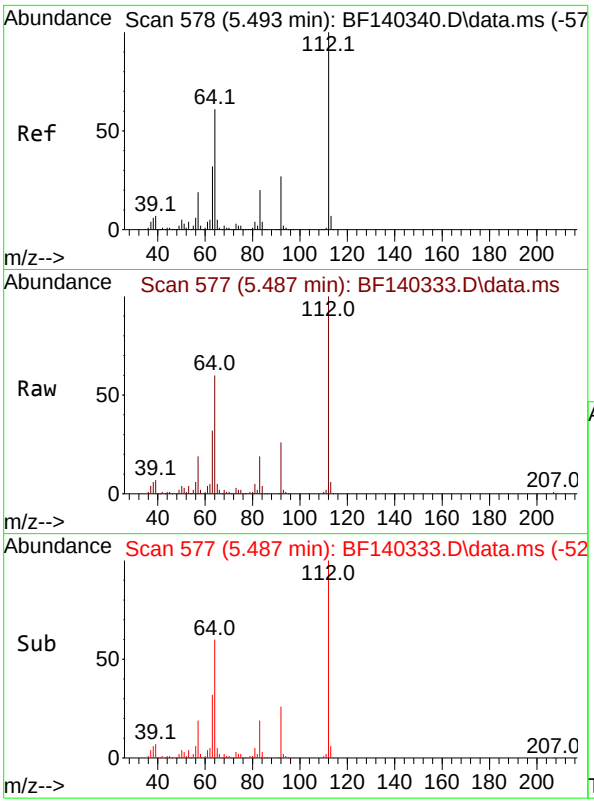


#4
n-Nitrosodimethylamine
Concen: 5.074 ng
RT: 3.346 min Scan# 213
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 42 Resp: 24263

Ion	Ratio	Lower	Upper
42	100		
74	126.0	103.5	155.3
44	7.9	5.1	7.7#

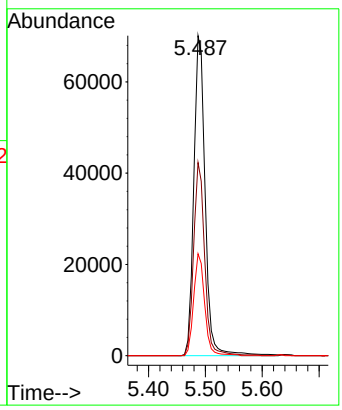




#5
2-Fluorophenol
Concen: 11.349 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:112 Resp: 9800

Ion	Ratio	Lower	Upper
112	100		
64	60.4	49.2	73.8
63	31.9	25.6	38.4

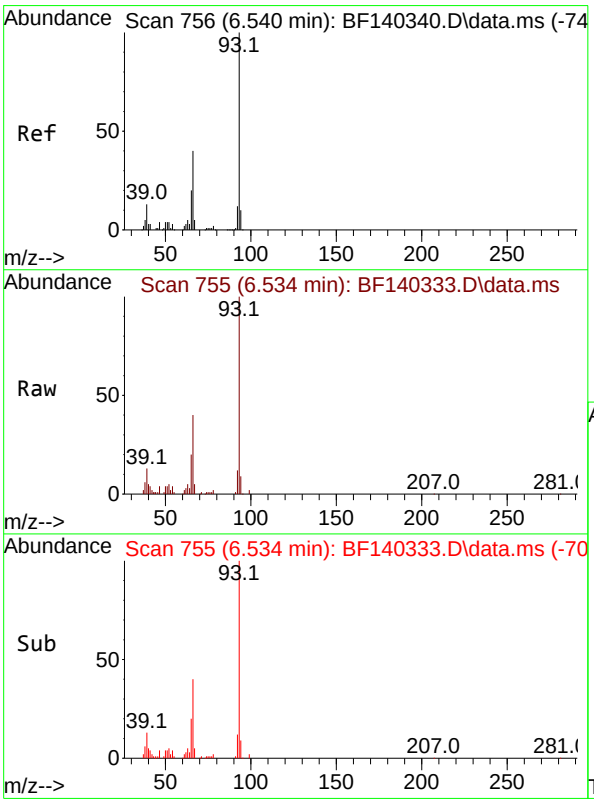


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

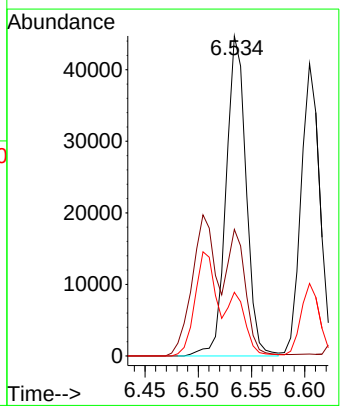
Supervised By :mohammad ahmed
11/14/2024

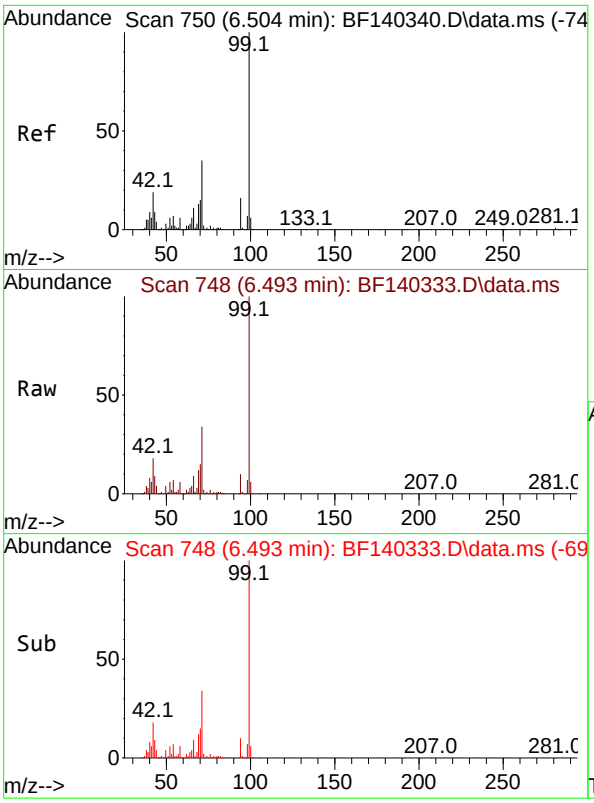


#6
Aniline
Concen: 5.748 ng
RT: 6.534 min Scan# 755
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 93 Resp: 58498

Ion	Ratio	Lower	Upper
93	100		
66	39.6	32.8	49.2
65	19.9	16.6	25.0

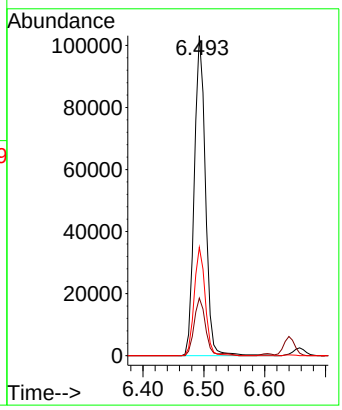




#7
Phenol-d6
Concen: 11.173 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 99 Resp: 13072

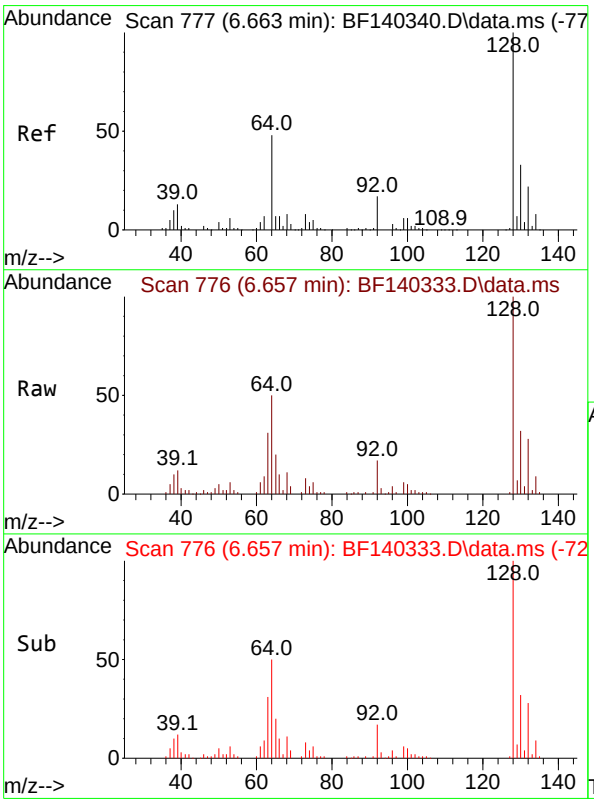
Ion	Ratio	Lower	Upper
99	100		
42	18.0	15.1	22.7
71	33.8	27.9	41.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

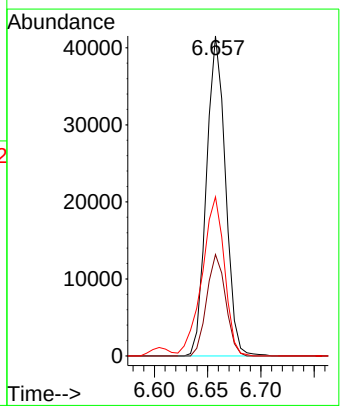
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

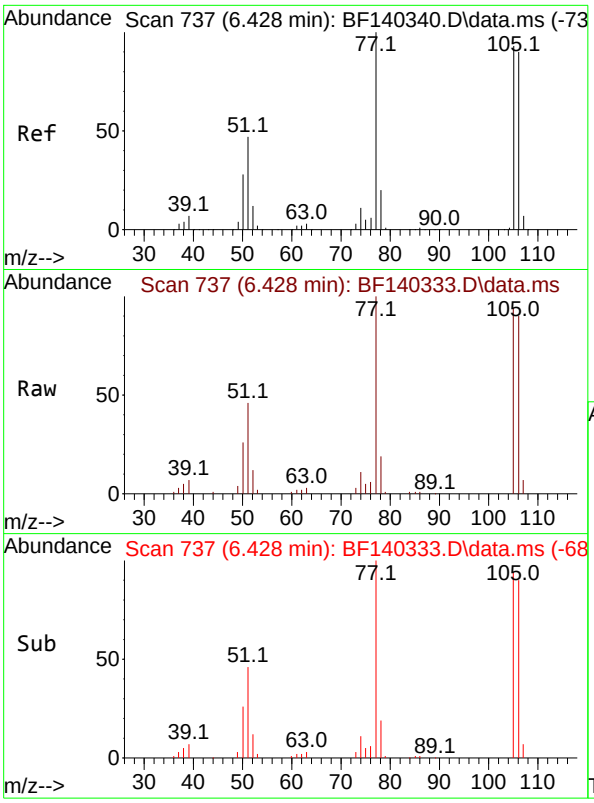


#8
2-Chlorophenol
Concen: 5.552 ng
RT: 6.657 min Scan# 776
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:128 Resp: 51502

Ion	Ratio	Lower	Upper
128	100		
130	31.7	12.2	52.2
64	49.7	30.2	70.2

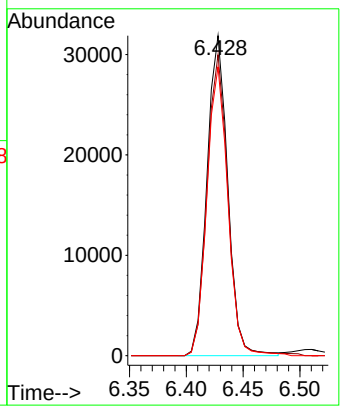




#9
Benzaldehyde
Concen: 5.790 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 77 Resp: 4060

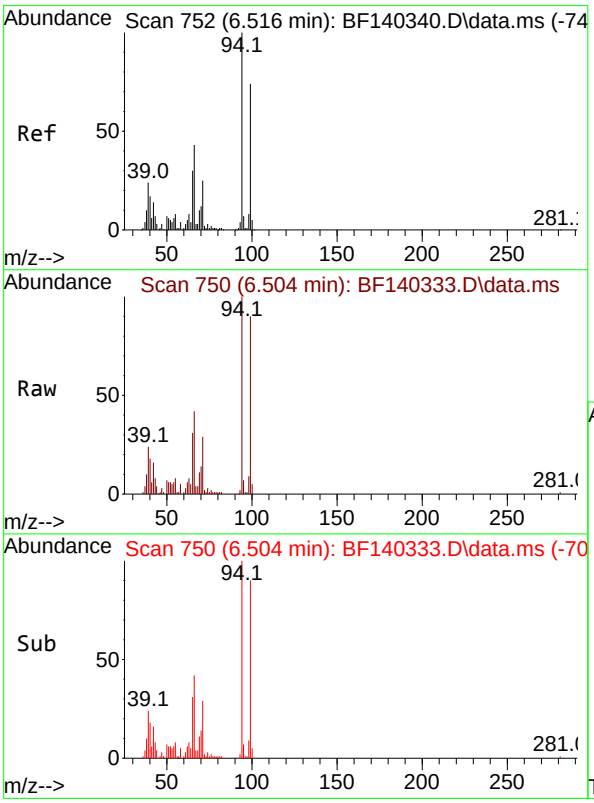
Ion	Ratio	Lower	Upper
77	100		
105	94.0	74.4	114.4
106	90.2	69.9	109.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

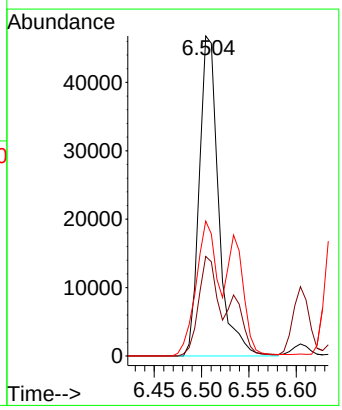
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

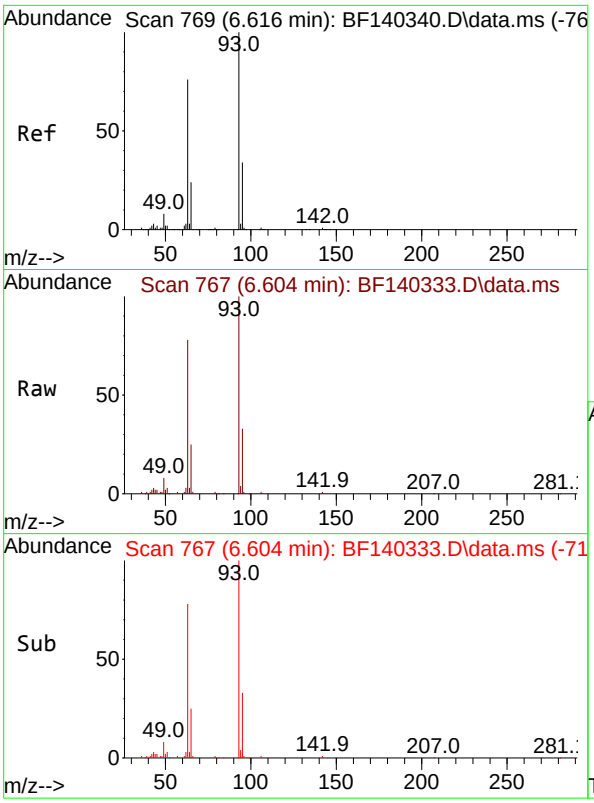


#10
Phenol
Concen: 5.374 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.018 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 94 Resp: 66303

Ion	Ratio	Lower	Upper
94	100		
65	31.1	10.4	50.4
66	42.1	22.9	62.9

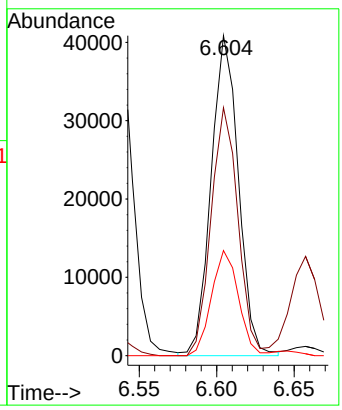




#11
bis(2-Chloroethyl)ether
Concen: 5.359 ng
RT: 6.604 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 93 Resp: 5009

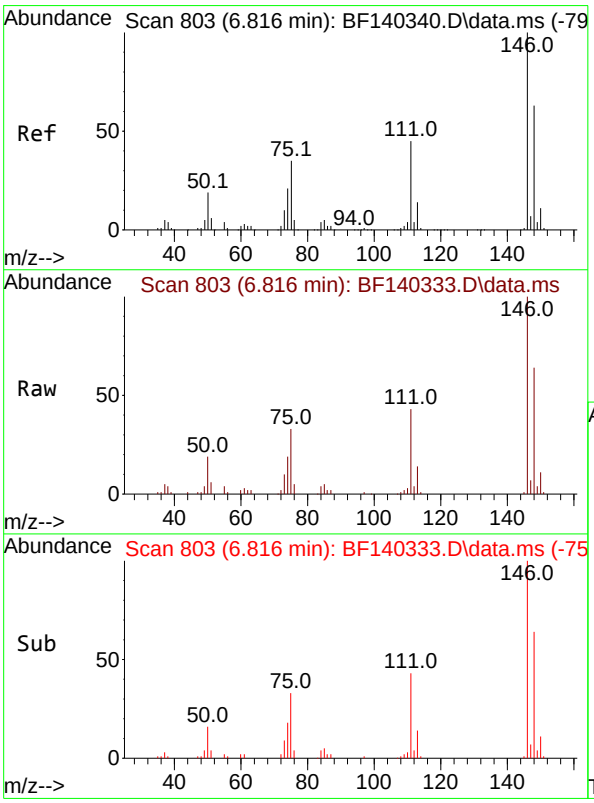
Ion	Ratio	Lower	Upper
93	100		
63	77.5	54.0	94.0
95	32.8	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

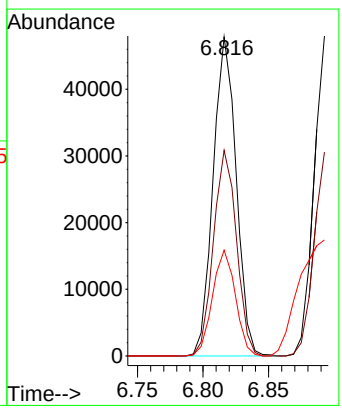
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

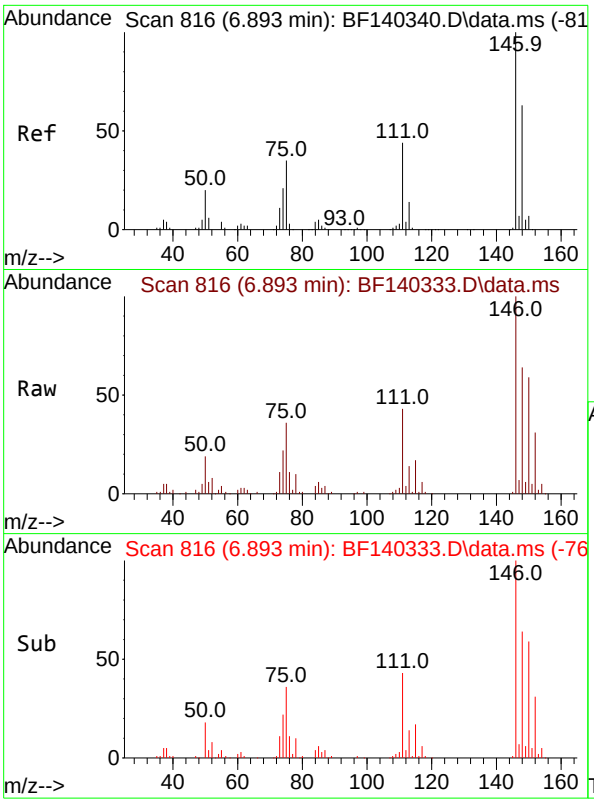


#12
1,3-Dichlorobenzene
Concen: 5.709 ng
RT: 6.816 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:146 Resp: 58435

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.7	76.1
75	33.2	26.4	39.6

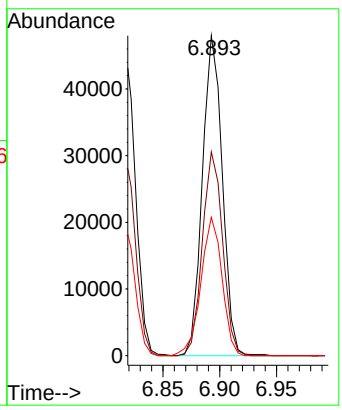




#13
1,4-Dichlorobenzene
Concen: 5.646 ng
RT: 6.893 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:146 Resp: 5859

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.8	76.2
111	43.3	34.2	51.2

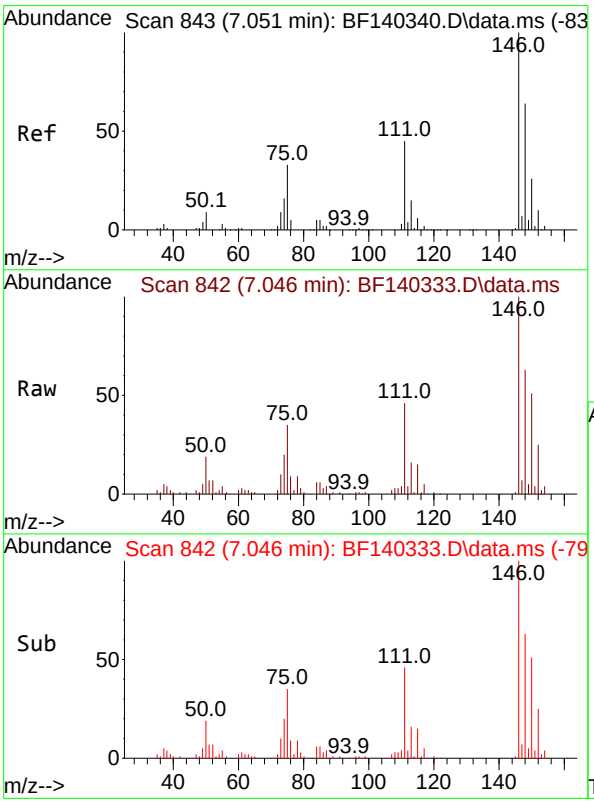


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

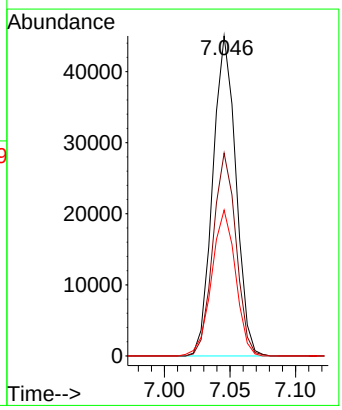
Supervised By :mohammad ahmed
11/14/2024

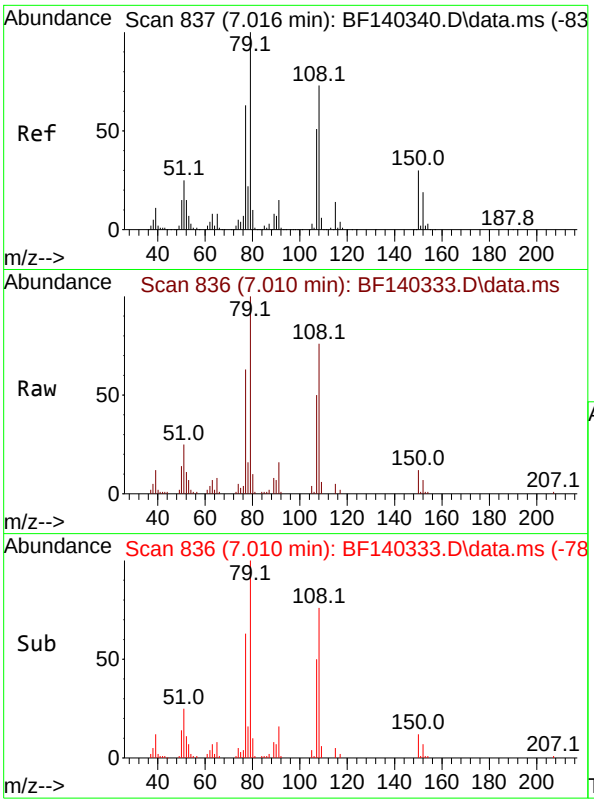


#14
1,2-Dichlorobenzene
Concen: 5.714 ng
RT: 7.046 min Scan# 842
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:146 Resp: 55054

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.2	76.8
111	45.6	36.5	54.7

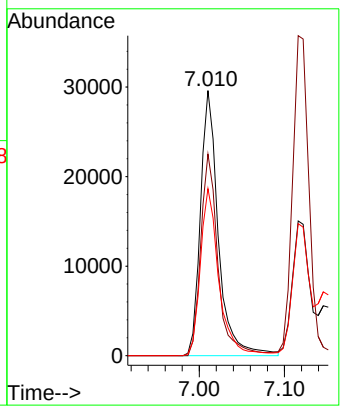




#15
Benzyl Alcohol
Concen: 5.126 ng
RT: 7.010 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 79 Resp: 4321

Ion	Ratio	Lower	Upper
79	100		
108	76.1	57.8	86.6
77	63.0	49.8	74.6

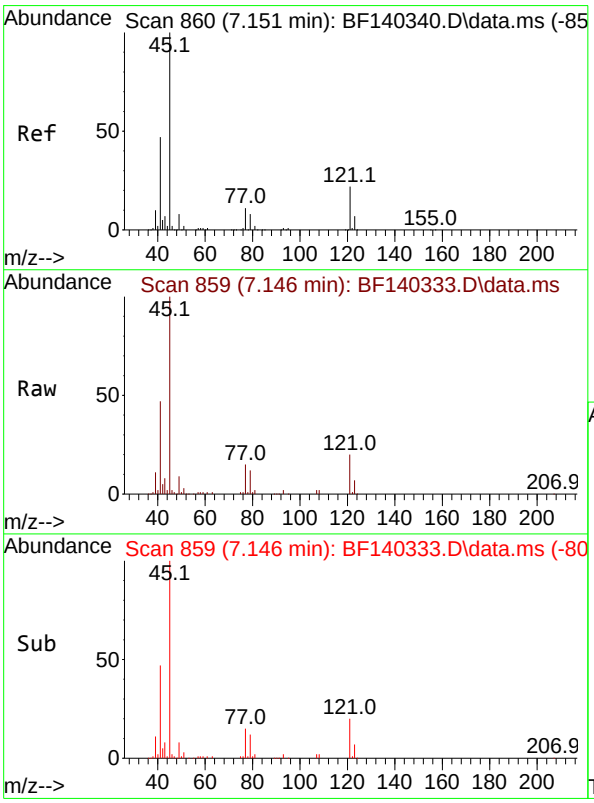


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

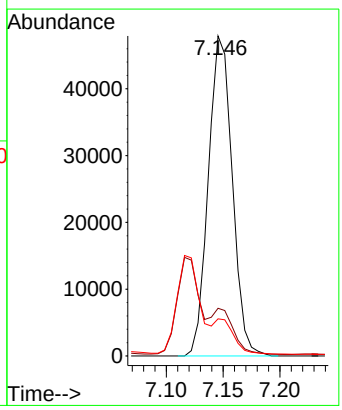
Supervised By :mohammad ahmed
11/14/2024

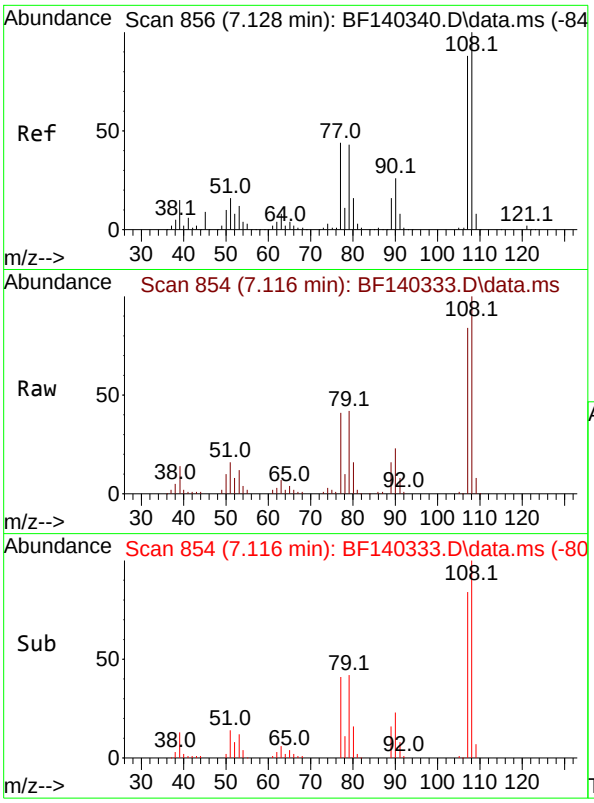


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.441 ng
RT: 7.146 min Scan# 859
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 45 Resp: 70257

Ion	Ratio	Lower	Upper
45	100		
77	14.9	0.0	34.8
79	11.6	0.0	31.4

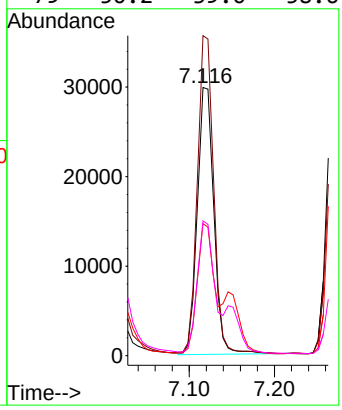




#17
2-Methylphenol
Concen: 5.274 ng
RT: 7.116 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:107 Resp: 4024

Ion	Ratio	Lower	Upper
107	100		
108	119.3	91.9	137.9
77	49.2	39.7	59.5
79	50.2	39.0	58.6

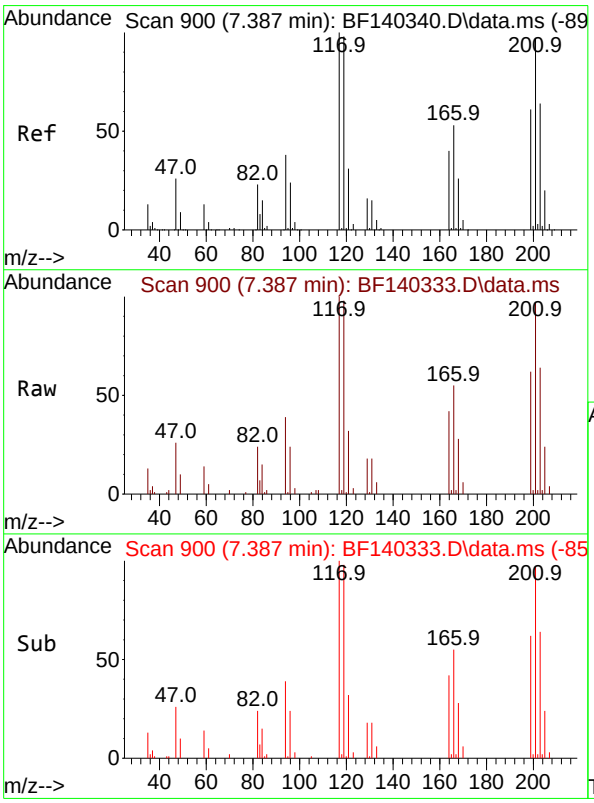


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

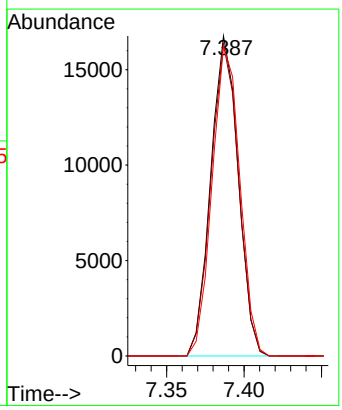
Supervised By :mohammad ahmed
11/14/2024

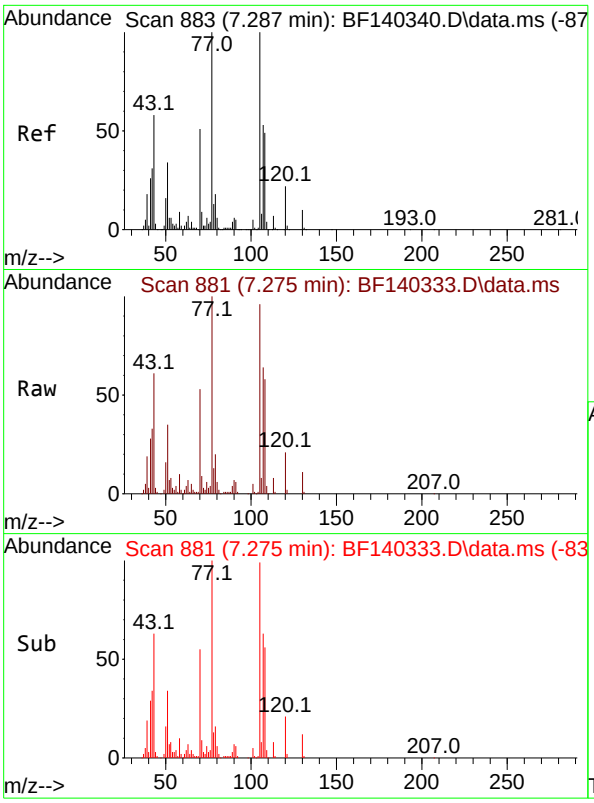


#18
Hexachloroethane
Concen: 5.396 ng
RT: 7.387 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:117 Resp: 20701

Ion	Ratio	Lower	Upper
117	100		
119	97.6	76.9	115.3
201	96.8	80.2	120.4

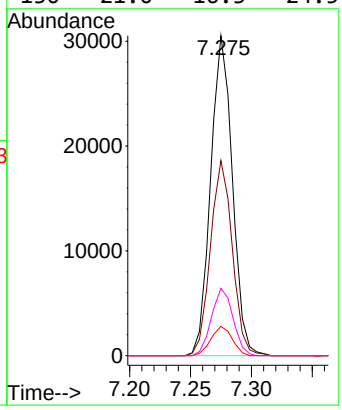




#19
n-Nitroso-di-n-propylamine
Concen: 5.366 ng
RT: 7.275 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 70 Resp: 3791

Ion	Ratio	Lower	Upper
70	100		
42	61.0	46.8	70.2
101	9.1	7.5	11.3
130	21.0	16.3	24.5

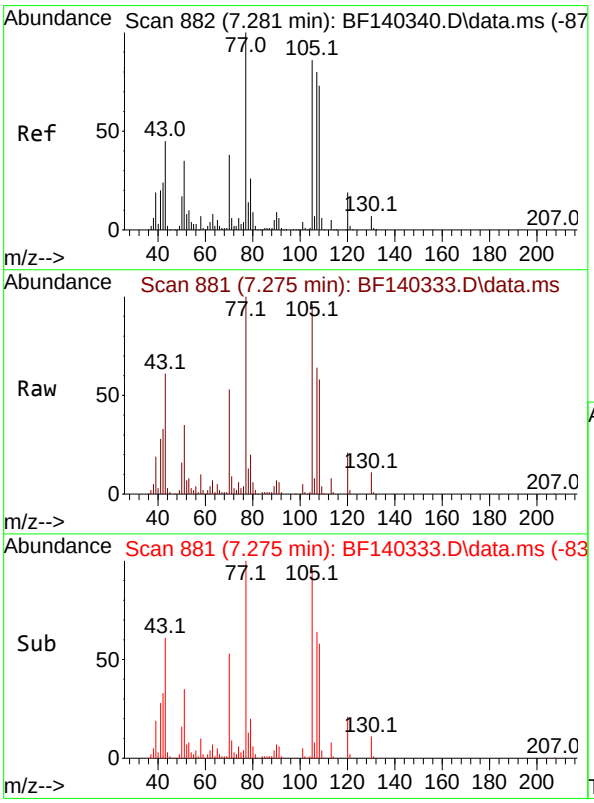


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

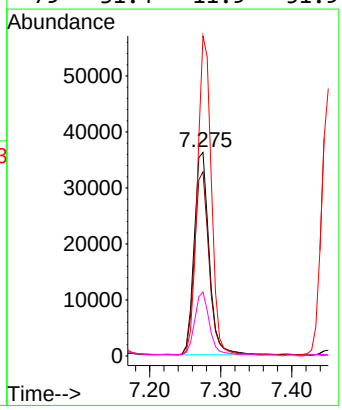
Supervised By :mohammad ahmed
11/14/2024

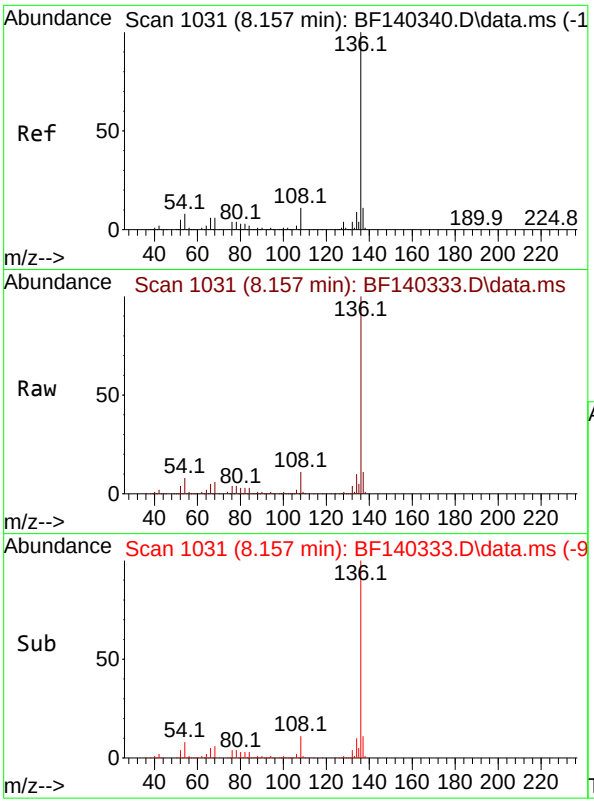


#20
3+4-Methylphenols
Concen: 5.548 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:107 Resp: 52942

Ion	Ratio	Lower	Upper
107	100		
108	90.5	71.4	111.4
77	157.2	97.0	137.0#
79	31.4	11.9	51.9

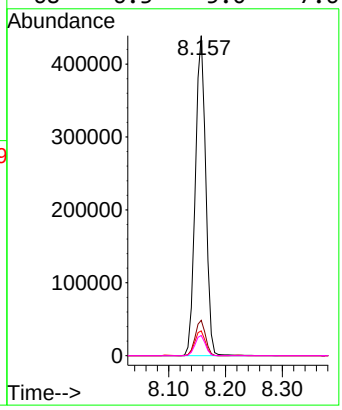




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:136 Resp: 56108

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	7.8	6.5	9.7
68	6.3	5.0	7.6

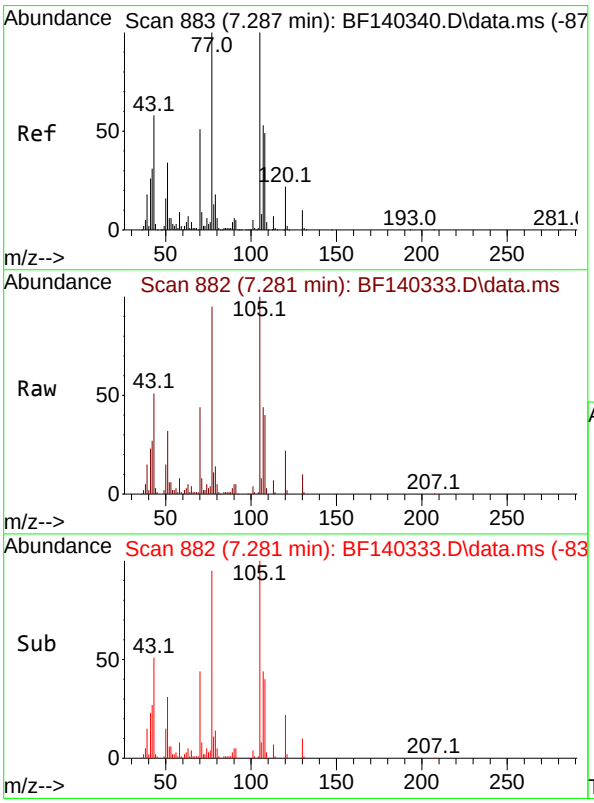


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

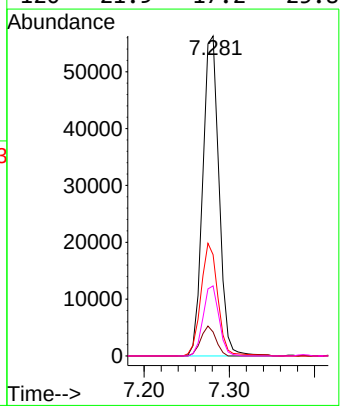
Supervised By :mohammad ahmed
11/14/2024

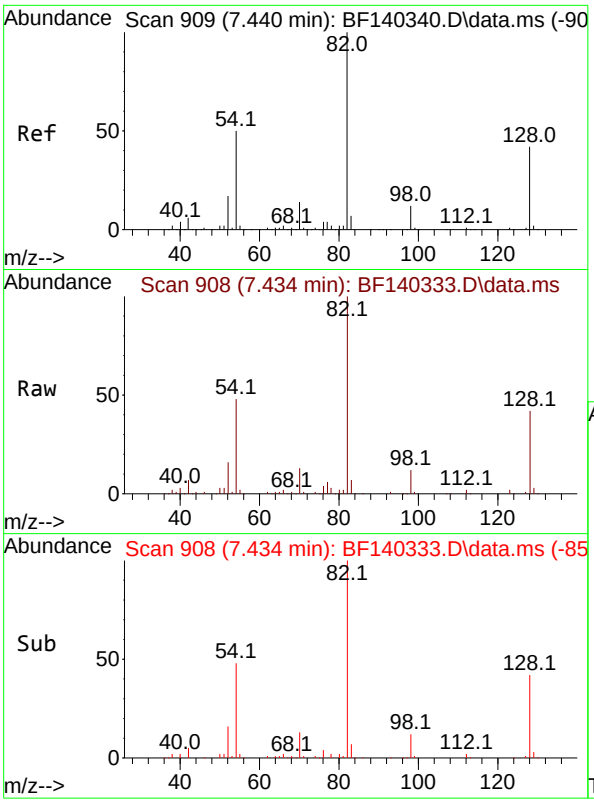


#22
Acetophenone
Concen: 5.720 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:105 Resp: 74642

Ion	Ratio	Lower	Upper
105	100		
71	7.5	6.9	10.3
51	31.7	28.6	43.0
120	21.9	17.2	25.8

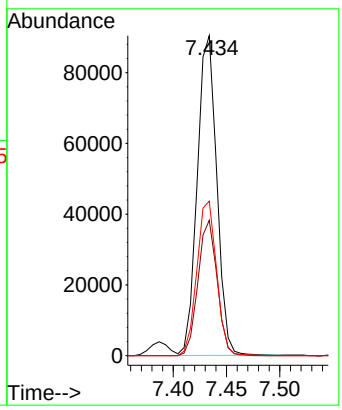




#23
Nitrobenzene-d5
Concen: 10.706 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 82 Resp: 11529

Ion	Ratio	Lower	Upper
82	100		
128	42.3	33.3	49.9
54	48.3	39.8	59.8

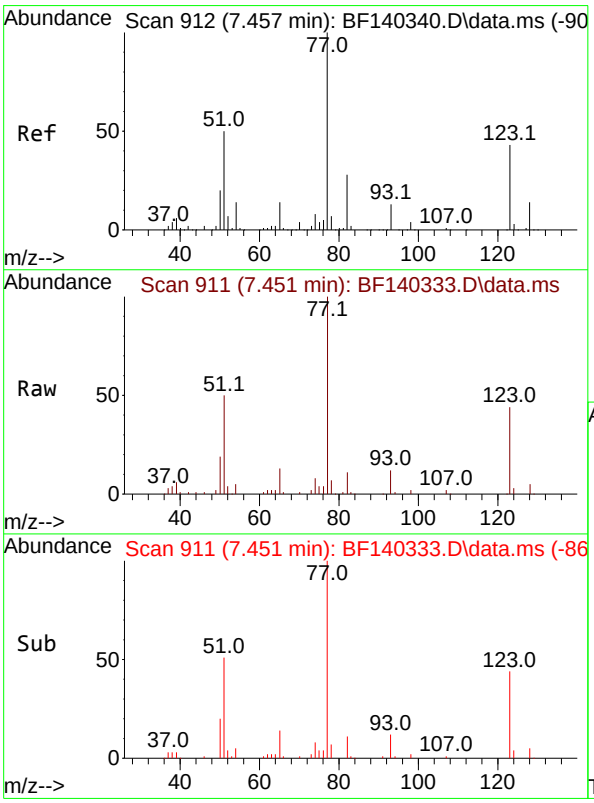


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

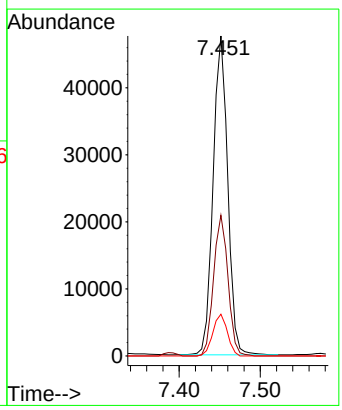
Supervised By :mohammad ahmed
11/14/2024

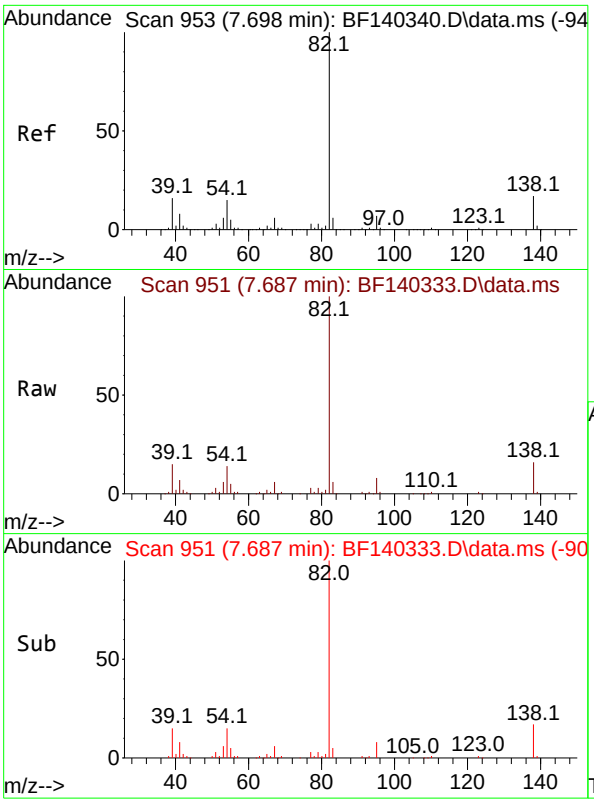


#24
Nitrobenzene
Concen: 5.297 ng
RT: 7.451 min Scan# 911
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 77 Resp: 59394

Ion	Ratio	Lower	Upper
77	100		
123	44.0	35.4	53.0
65	13.1	11.1	16.7

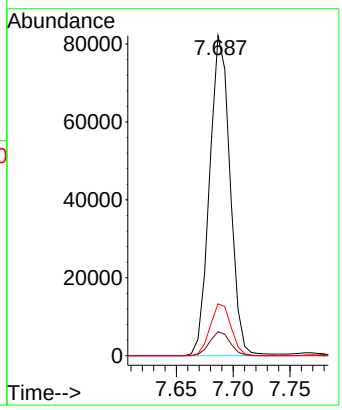




#25
Isophorone
Concen: 5.409 ng
RT: 7.687 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 82 Resp: 10322

Ion	Ratio	Lower	Upper
82	100		
95	7.5	5.9	8.9
138	16.2	13.4	20.2

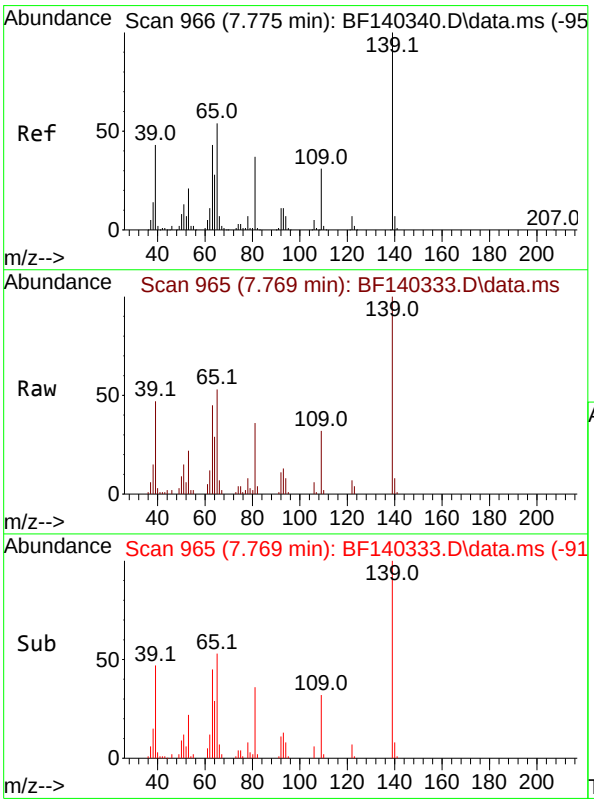


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

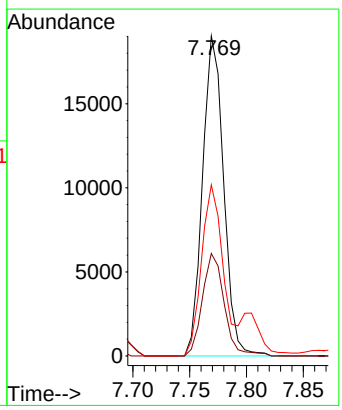
Supervised By :mohammad ahmed
11/14/2024

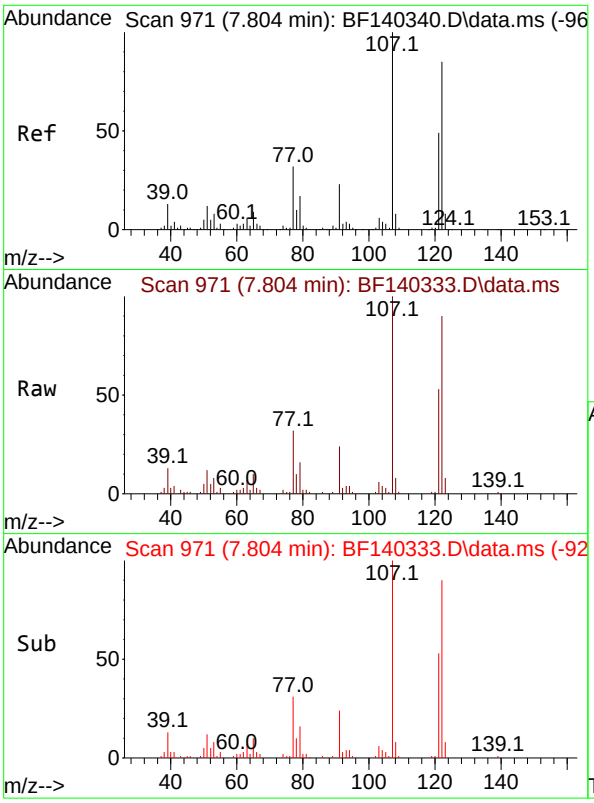


#26
2-Nitrophenol
Concen: 4.939 ng
RT: 7.769 min Scan# 965
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:139 Resp: 24576

Ion	Ratio	Lower	Upper
139	100		
109	32.0	24.4	36.6
65	53.5	42.8	64.2

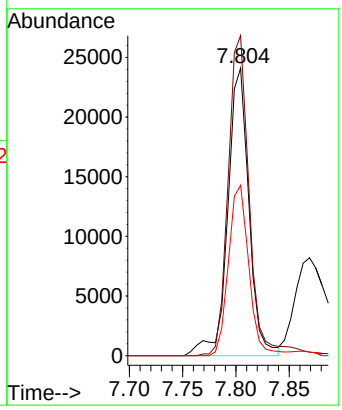




#27
2,4-Dimethylphenol
Concen: 5.237 ng
RT: 7.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:122 Resp: 3335

Ion	Ratio	Lower	Upper
122	100		
107	111.3	91.3	136.9
121	59.3	45.5	68.3

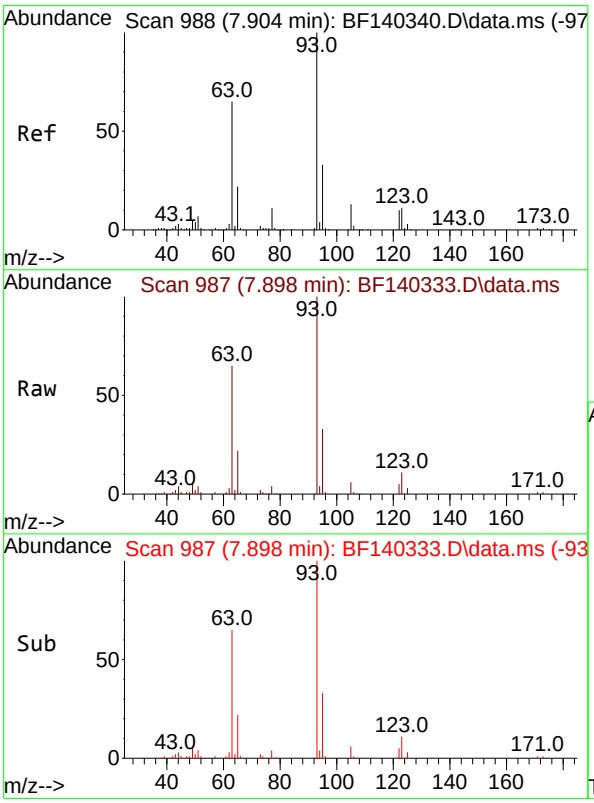


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

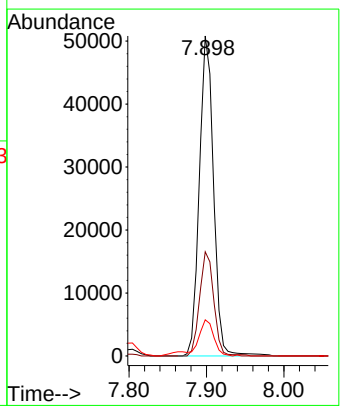
Supervised By :mohammad ahmed
11/14/2024

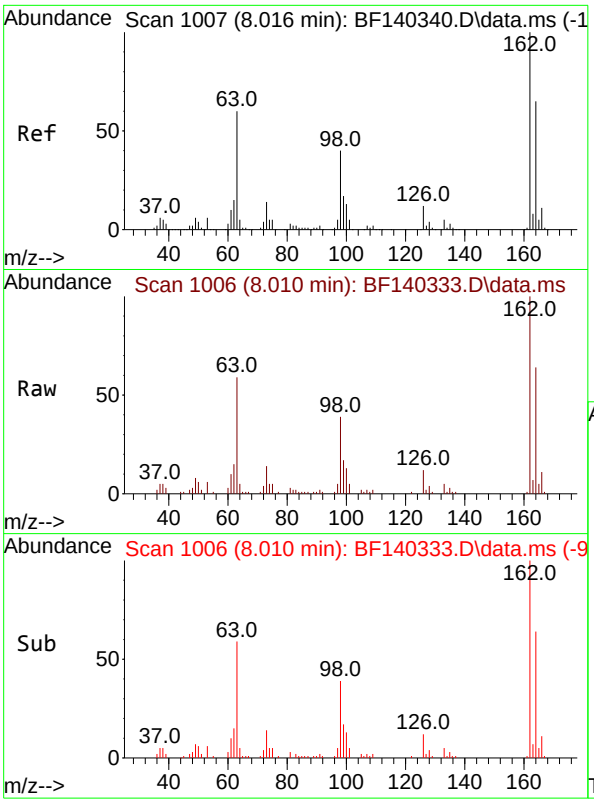


#28
bis(2-Chloroethoxy)methane
Concen: 5.526 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 93 Resp: 64672

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.9	38.9
123	11.3	9.2	13.8

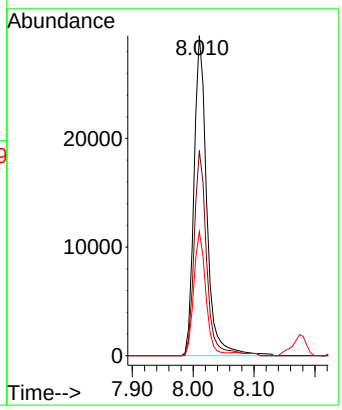




#29
2,4-Dichlorophenol
Concen: 5.472 ng
RT: 8.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:162 Resp: 4307

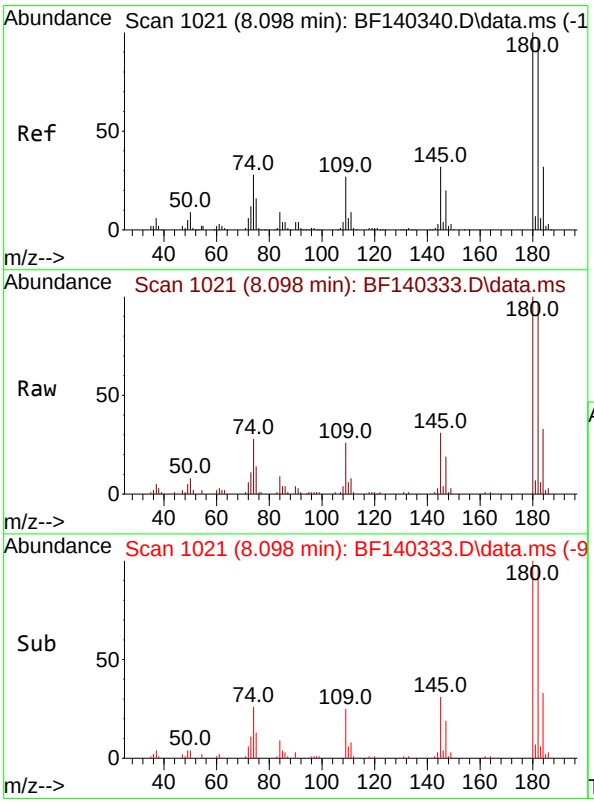
Ion	Ratio	Lower	Upper
162	100		
164	64.1	45.4	85.4
98	38.8	19.9	59.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

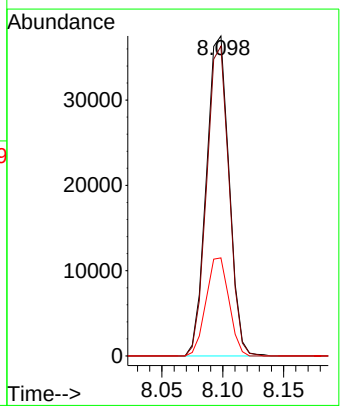
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

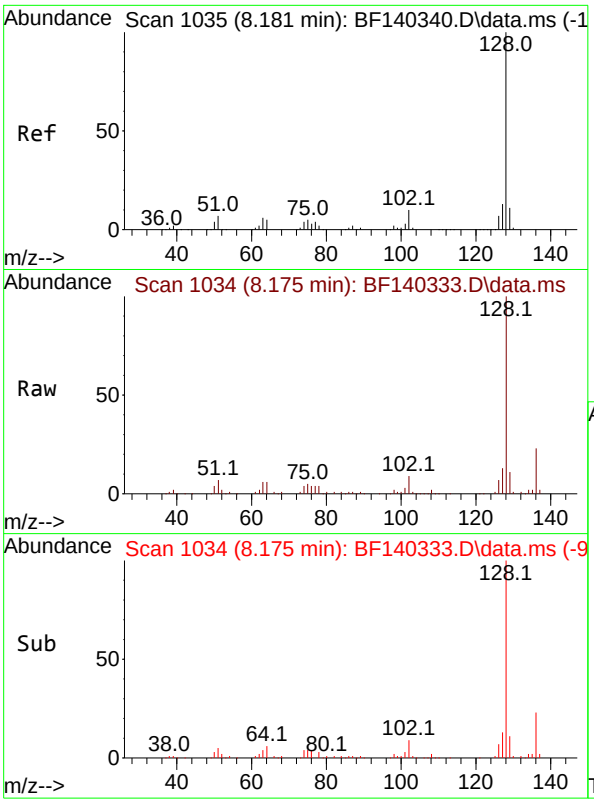


#30
1,2,4-Trichlorobenzene
Concen: 5.545 ng
RT: 8.098 min Scan# 1021
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:180 Resp: 48599

Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.5	114.7
145	30.7	25.3	37.9

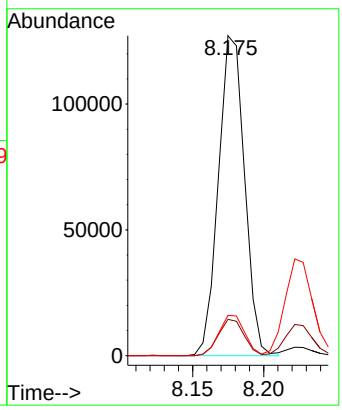




#31
Naphthalene
Concen: 5.717 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:128 Resp: 16271

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.9	13.3
127	12.6	10.6	15.8

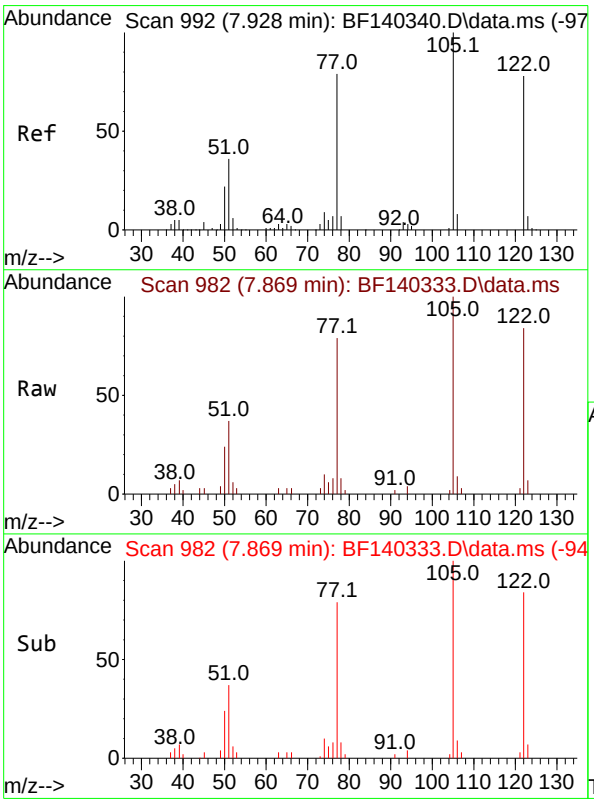


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

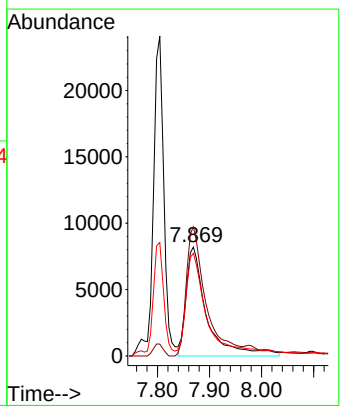
Supervised By :mohammad ahmed
11/14/2024

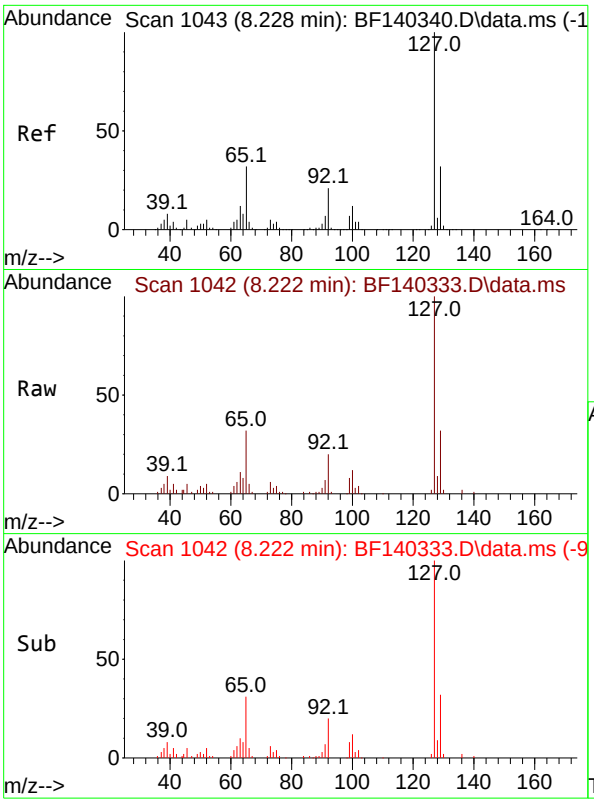


#32
Benzoic acid
Concen: 4.051 ng m
RT: 7.869 min Scan# 982
Delta R.T. -0.059 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:122 Resp: 22671

Ion	Ratio	Lower	Upper
122	100		
105	118.6	100.9	140.9
77	94.1	76.0	116.0

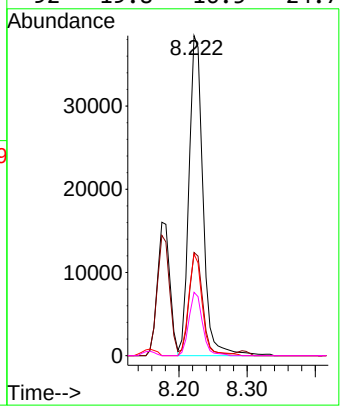




#33
4-Chloroaniline
Concen: 5.529 ng
RT: 8.222 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:127 Resp: 5472

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.2	39.4
65	31.8	25.8	38.6
92	19.8	16.5	24.7

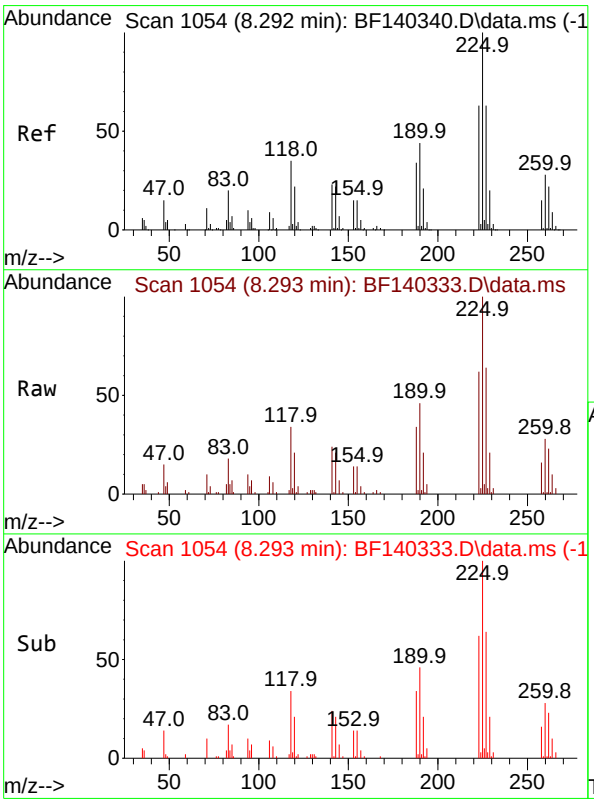


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

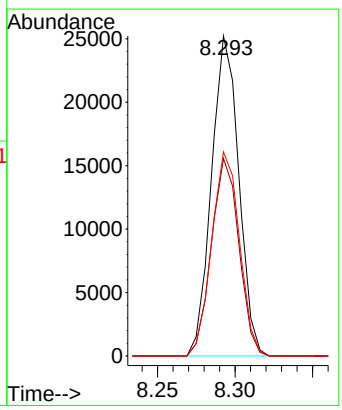
Supervised By :mohammad ahmed
11/14/2024

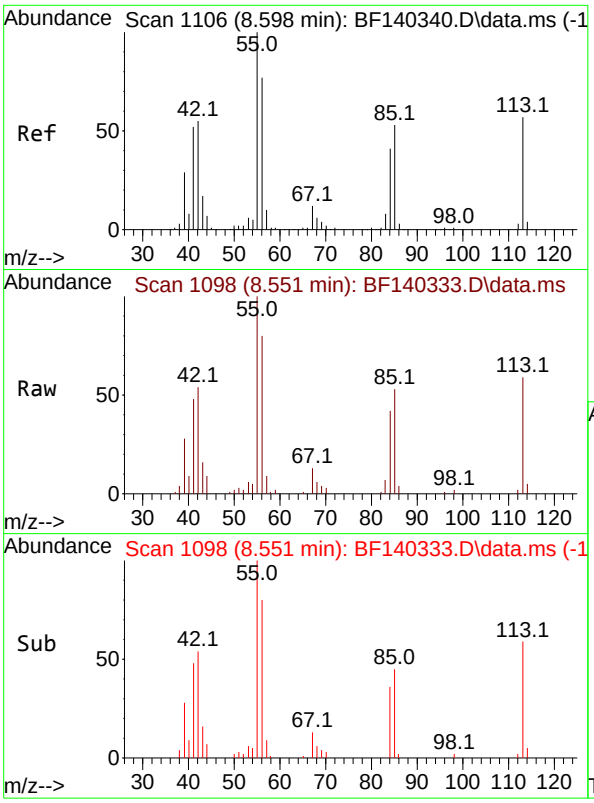


#34
Hexachlorobutadiene
Concen: 5.519 ng
RT: 8.293 min Scan# 1054
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:225 Resp: 30821

Ion	Ratio	Lower	Upper
225	100		
223	61.7	50.1	75.1
227	63.8	51.3	76.9

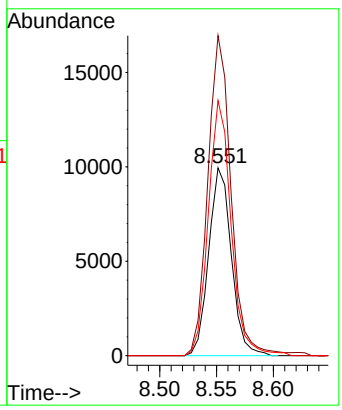




#35
Caprolactam
Concen: 5.217 ng
RT: 8.551 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:113 Resp: 1380

Ion	Ratio	Lower	Upper
113	100		
55	170.3	150.0	190.0
56	135.7	111.1	151.1

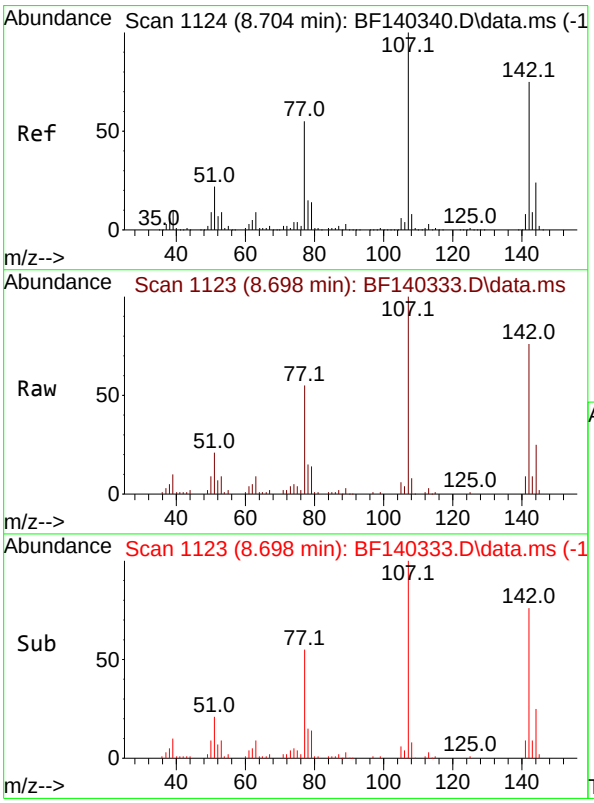


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

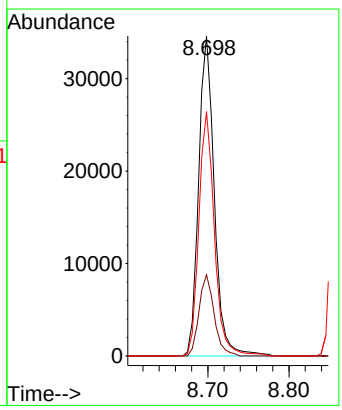
Supervised By :mohammad ahmed
11/14/2024

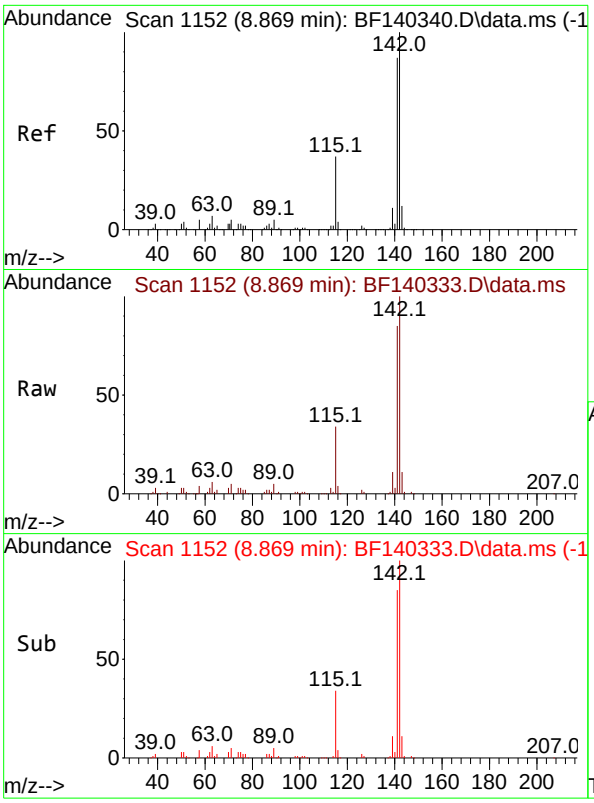


#36
4-Chloro-3-methylphenol
Concen: 5.324 ng
RT: 8.698 min Scan# 1123
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:107 Resp: 46450

Ion	Ratio	Lower	Upper
107	100		
144	25.4	19.3	28.9
142	76.4	59.4	89.0

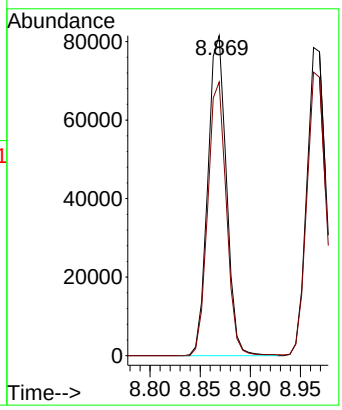




#37
2-Methylnaphthalene
Concen: 5.773 ng
RT: 8.869 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:142 Resp: 10535

Ion	Ratio	Lower	Upper
142	100		
141	85.5	70.4	105.6

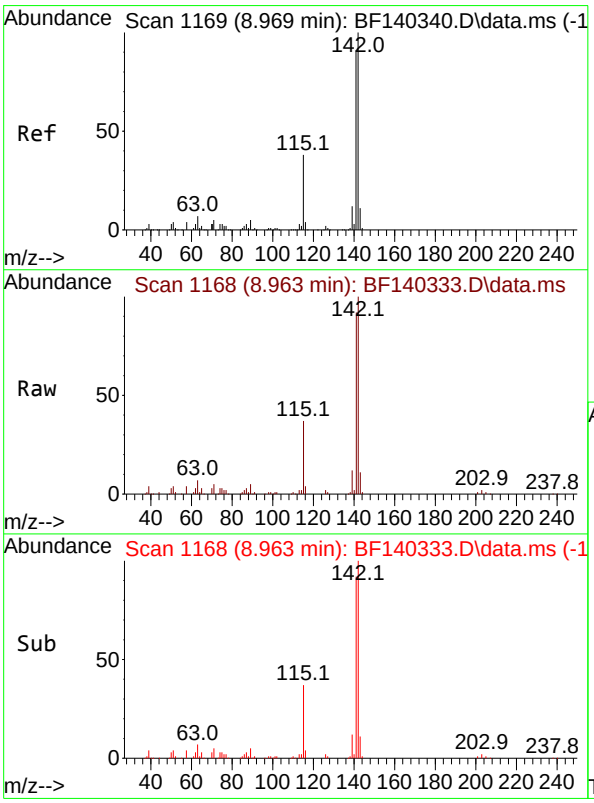


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

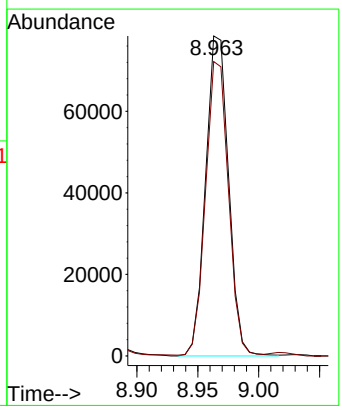
Supervised By :mohammad ahmed
11/14/2024

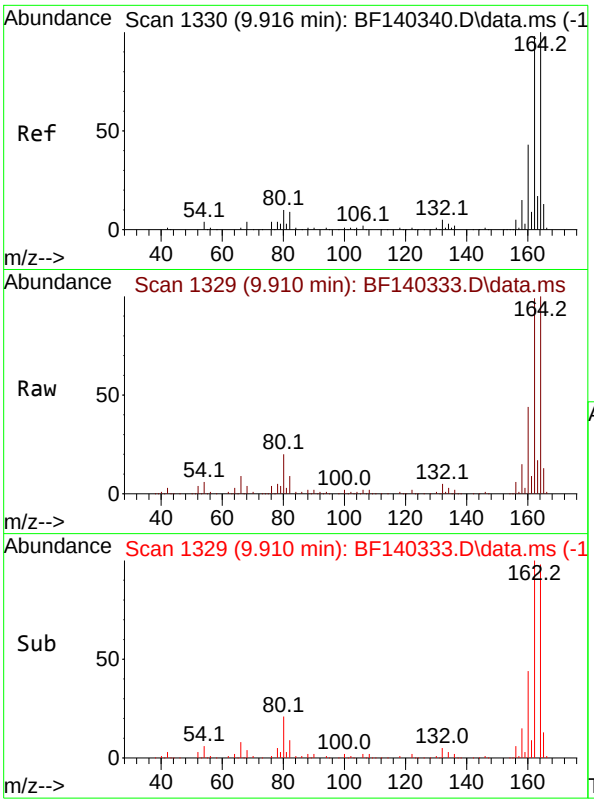


#38
1-Methylnaphthalene
Concen: 5.762 ng
RT: 8.963 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:142 Resp: 102975

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.6	110.4

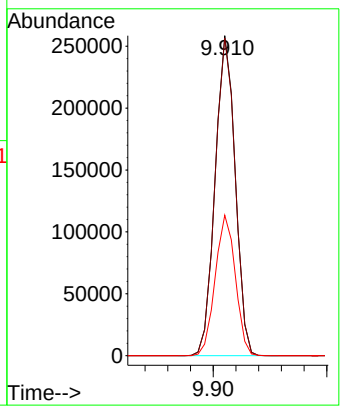




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:164 Resp: 31734

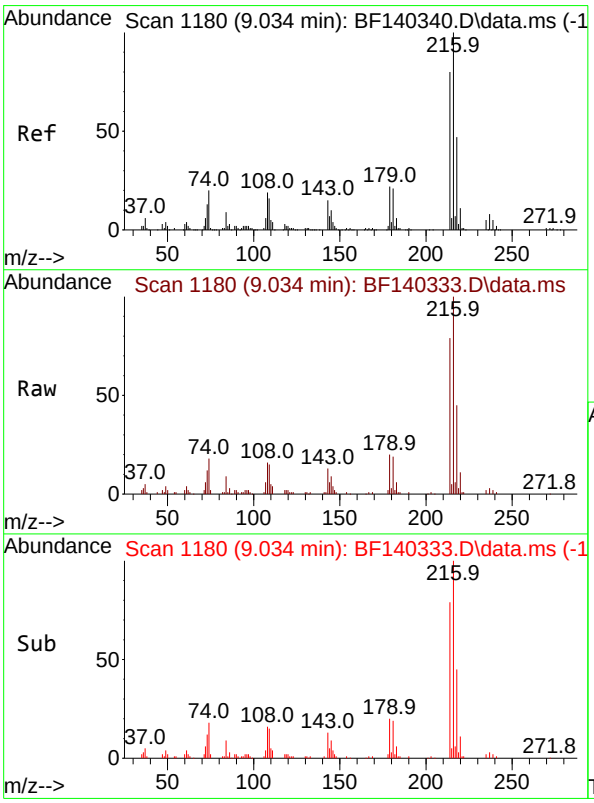
Ion	Ratio	Lower	Upper
164	100		
162	99.3	79.8	119.8
160	43.9	35.4	53.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

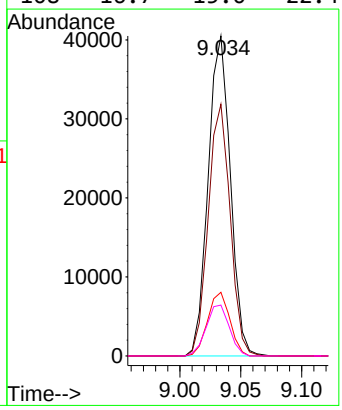
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

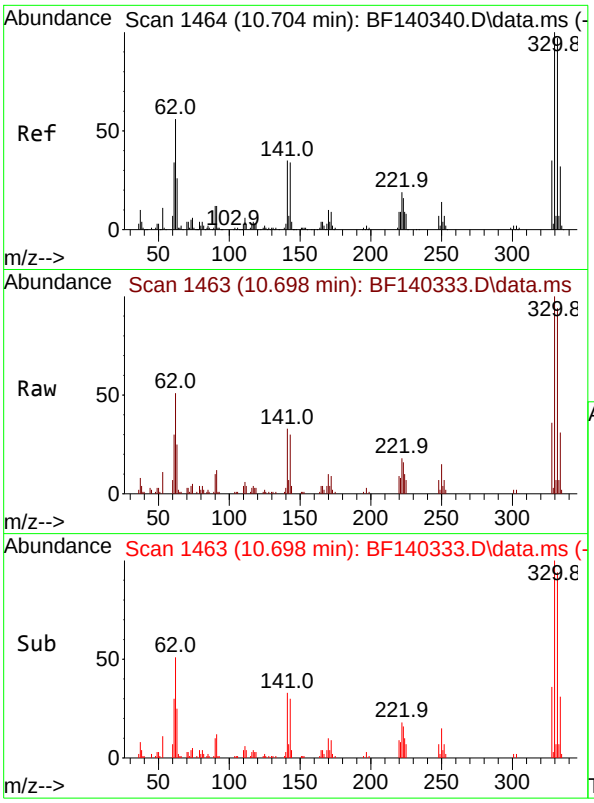


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.841 ng
RT: 9.034 min Scan# 1180
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:216 Resp: 51260

Ion	Ratio	Lower	Upper
216	100		
214	77.8	63.2	94.8
179	19.9	17.2	25.8
108	16.7	15.0	22.4

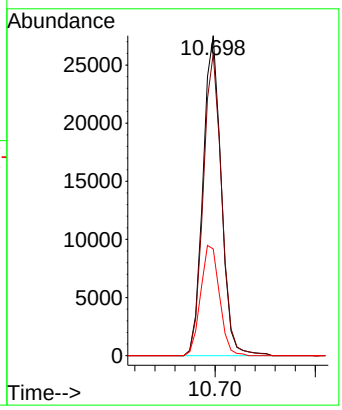




#42
2,4,6-Tribromophenol
Concen: 11.056 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:330 Resp: 3489

Ion	Ratio	Lower	Upper
330	100		
332	95.2	75.9	113.9
141	35.6	26.9	40.3

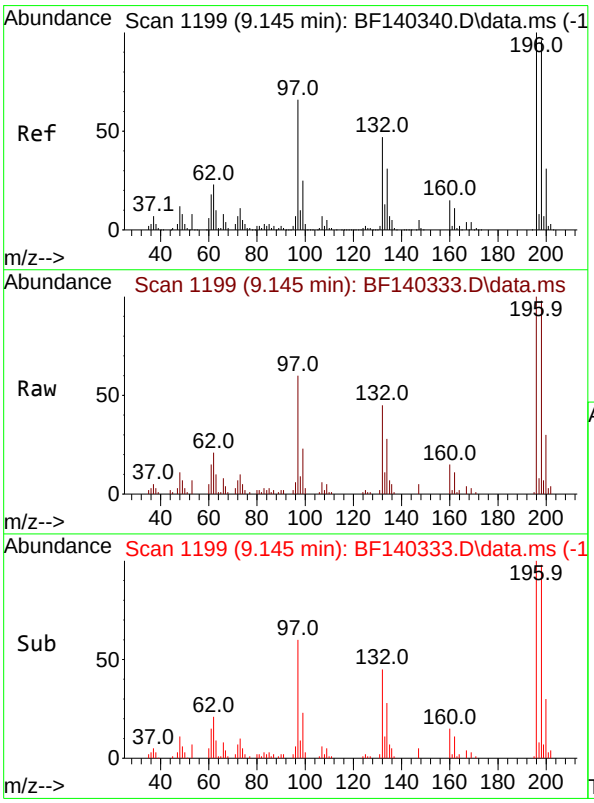


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

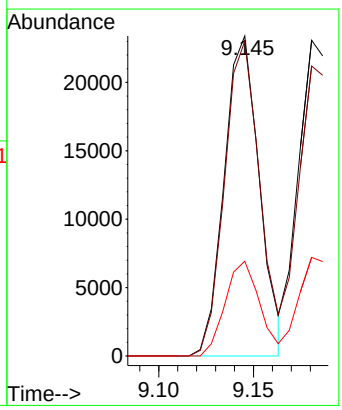
Supervised By :mohammad ahmed
11/14/2024

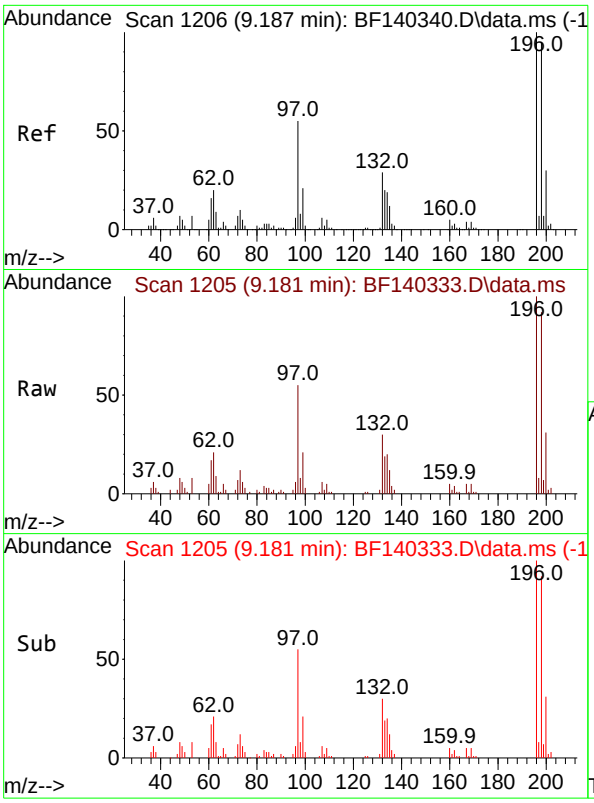


#43
2,4,6-Trichlorophenol
Concen: 5.239 ng
RT: 9.145 min Scan# 1199
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:196 Resp: 30173

Ion	Ratio	Lower	Upper
196	100		
198	98.4	77.0	115.4
200	29.6	24.2	36.4

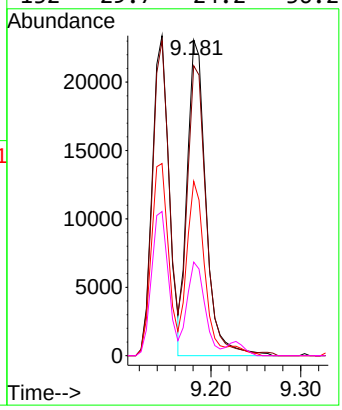




#44
2,4,5-Trichlorophenol
Concen: 5.310 ng
RT: 9.181 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:196 Resp: 3343

Ion	Ratio	Lower	Upper
196	100		
198	91.9	77.6	116.4
97	55.3	45.4	68.2
132	29.7	24.2	36.2

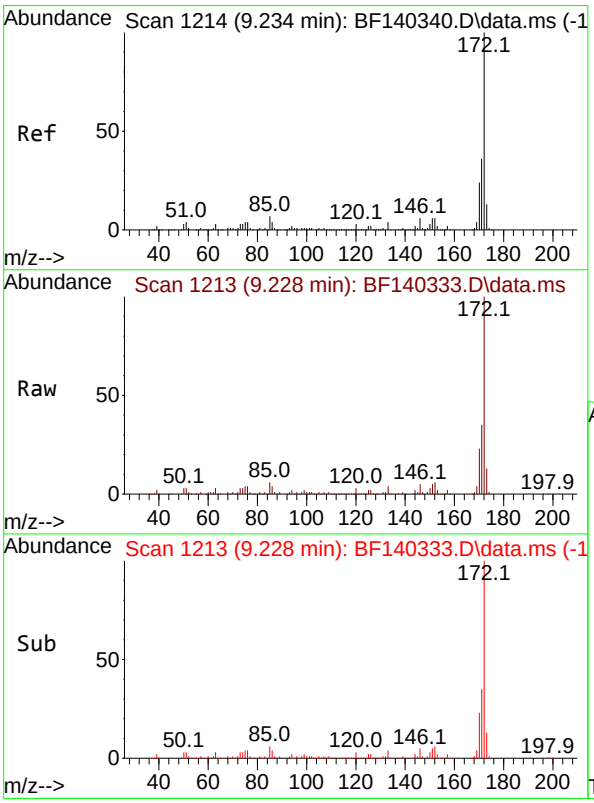


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

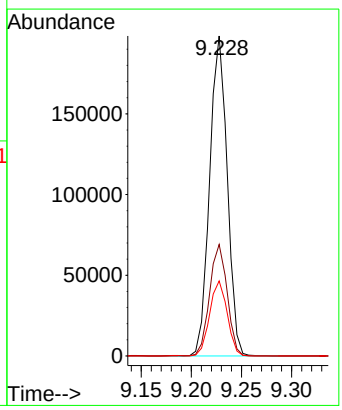
Supervised By :mohammad ahmed
11/14/2024

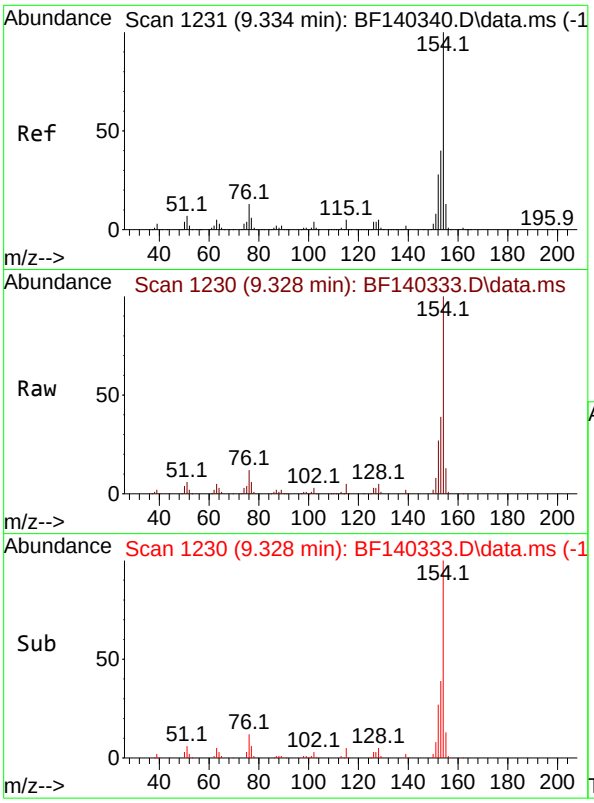


#45
2-Fluorobiphenyl
Concen: 12.246 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:172 Resp: 241751

Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.5	42.7
170	23.5	19.1	28.7

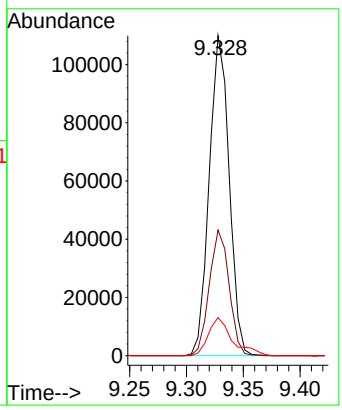




#46
1,1'-Biphenyl
Concen: 5.808 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:154 Resp: 13409

Ion	Ratio	Lower	Upper
154	100		
153	39.3	20.4	60.4
76	11.9	0.0	32.9

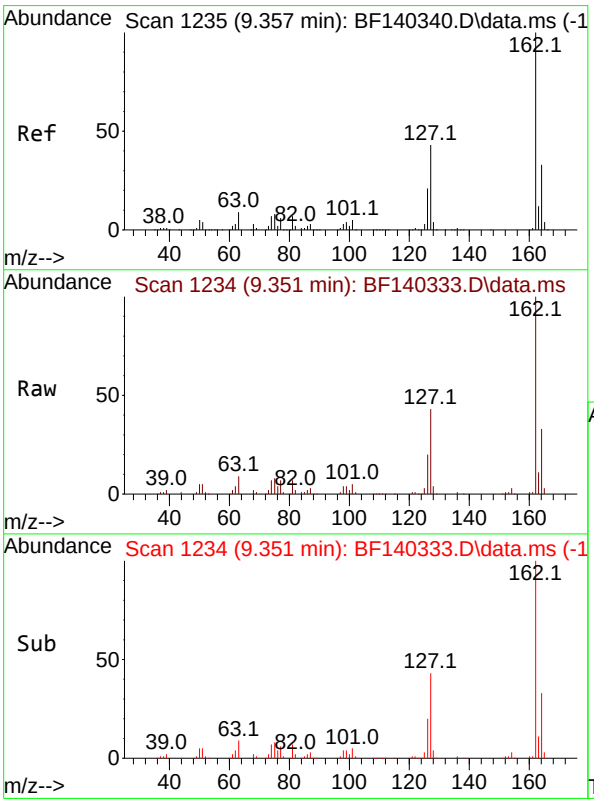


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

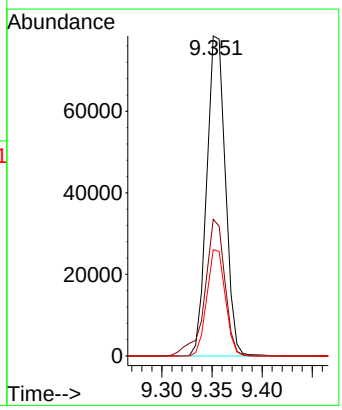
Supervised By :mohammad ahmed
11/14/2024

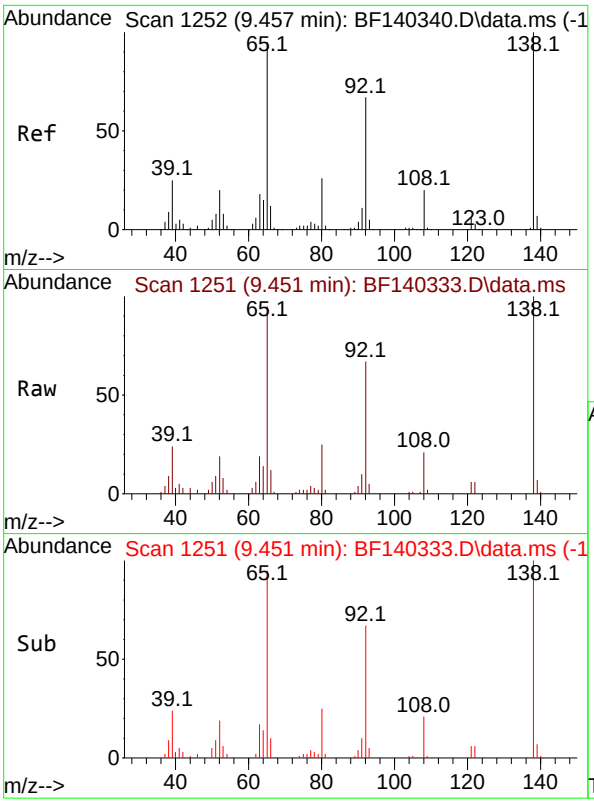


#47
2-Chloronaphthalene
Concen: 5.768 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:162 Resp: 101447

Ion	Ratio	Lower	Upper
162	100		
127	42.7	34.0	51.0
164	33.2	26.5	39.7

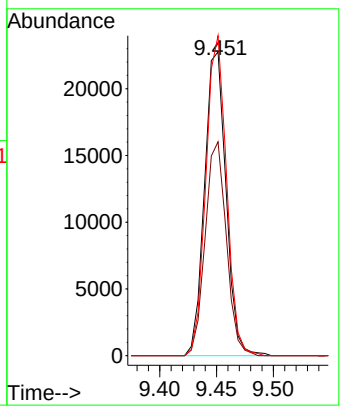




#48
2-Nitroaniline
Concen: 5.143 ng
RT: 9.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 65 Resp: 2999

Ion	Ratio	Lower	Upper
65	100		
92	70.4	56.4	84.6
138	105.3	84.8	127.2

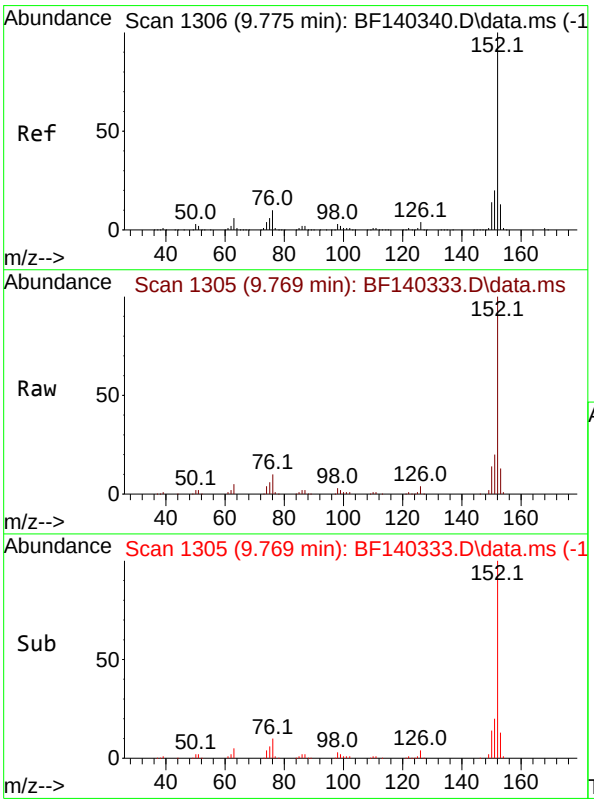


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

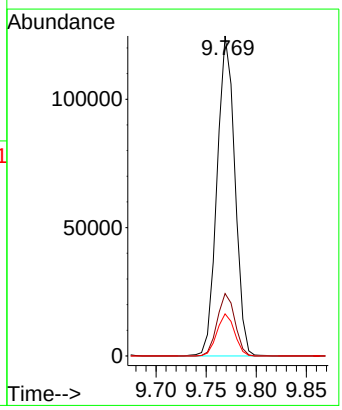
Supervised By :mohammad ahmed
11/14/2024

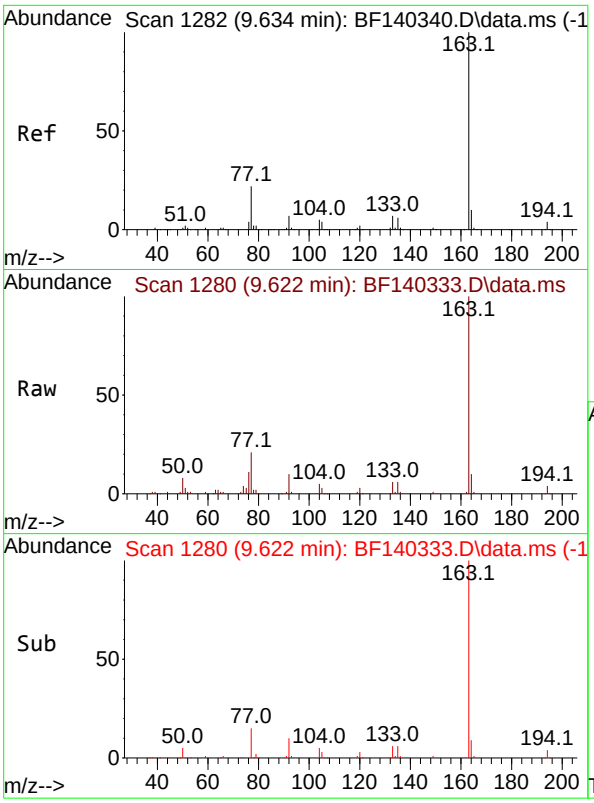


#49
Acenaphthylene
Concen: 5.783 ng
RT: 9.769 min Scan# 1305
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:152 Resp: 153886

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.1	24.1
153	13.1	10.7	16.1

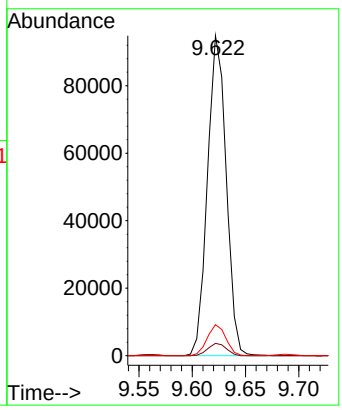




#50
Dimethylphthalate
Concen: 5.614 ng
RT: 9.622 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:163 Resp: 11613

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	9.7	8.2	12.4

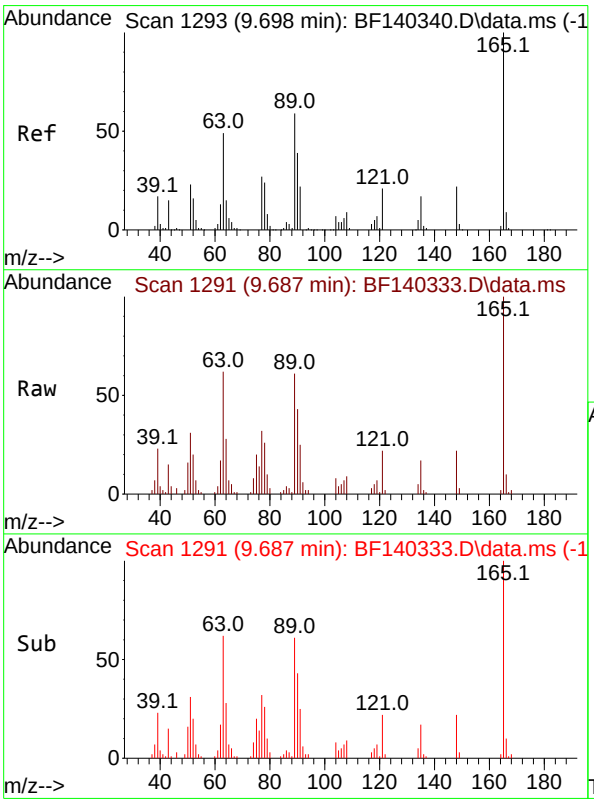


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

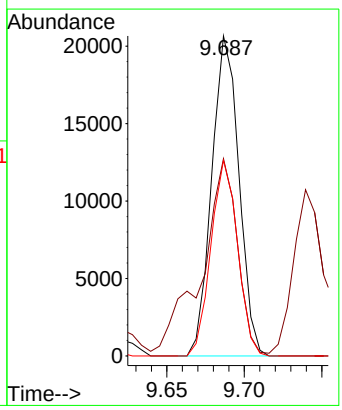
Supervised By :mohammad ahmed
11/14/2024

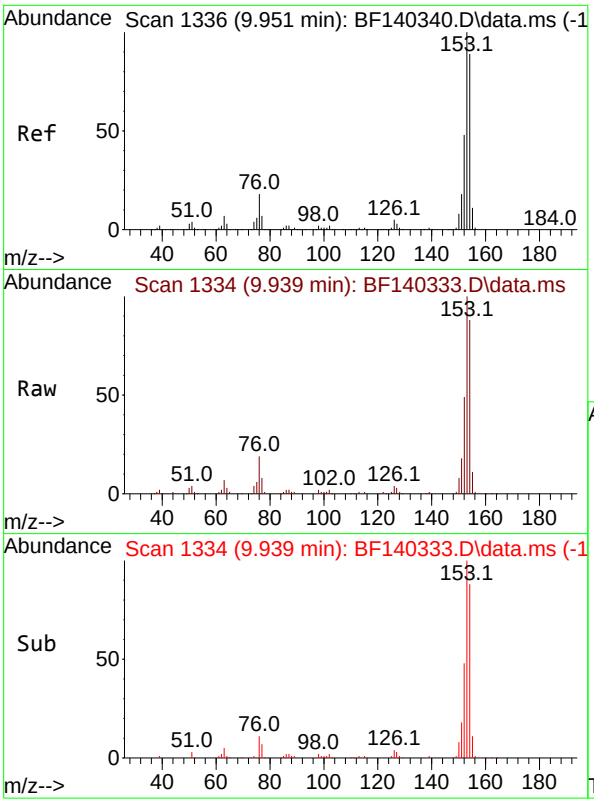


#51
2,6-Dinitrotoluene
Concen: 5.341 ng
RT: 9.687 min Scan# 1291
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:165 Resp: 25188

Ion	Ratio	Lower	Upper
165	100		
63	61.6	47.6	71.4
89	61.1	48.1	72.1

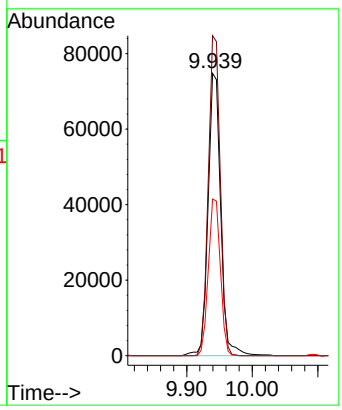




#52
Acenaphthene
Concen: 5.559 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:154 Resp: 9989

Ion	Ratio	Lower	Upper
154	100		
153	113.4	89.8	134.8
152	55.5	42.6	64.0

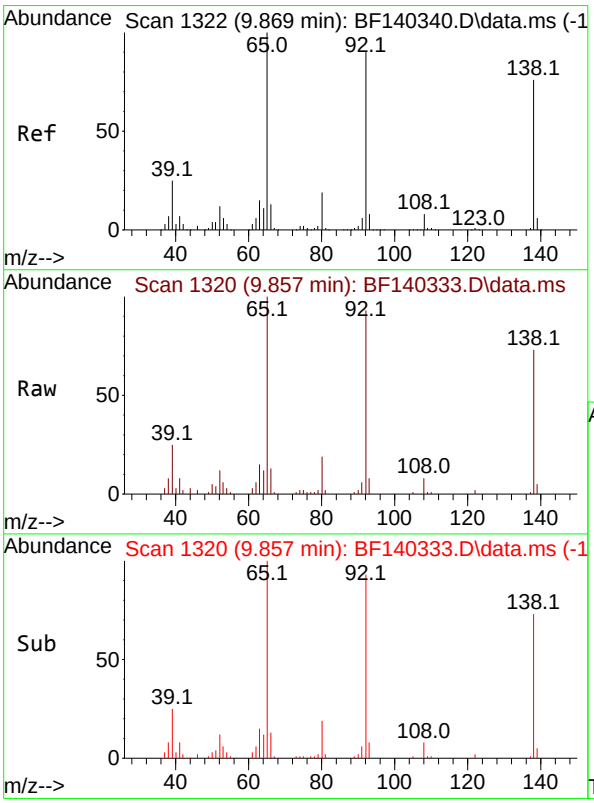


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

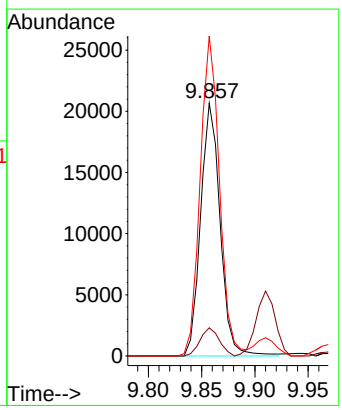
Supervised By :mohammad ahmed
11/14/2024

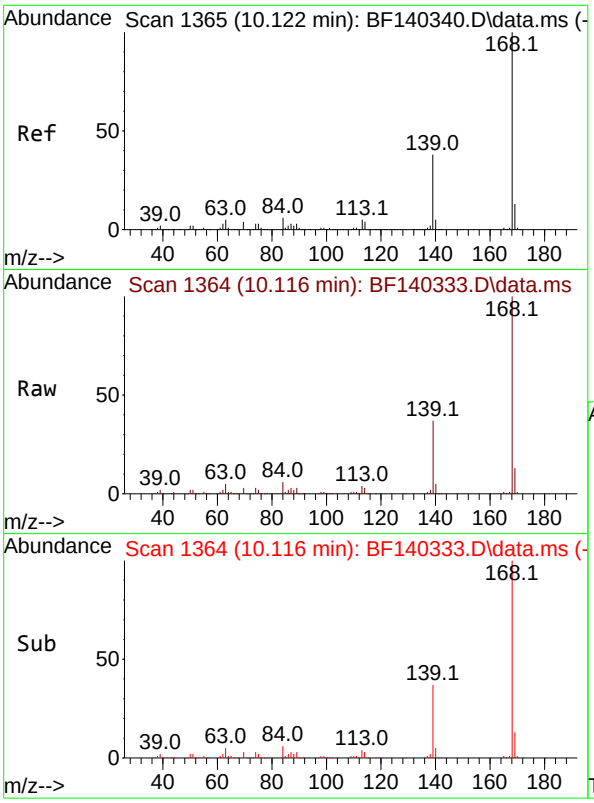


#53
3-Nitroaniline
Concen: 5.332 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:138 Resp: 26407

Ion	Ratio	Lower	Upper
138	100		
108	11.2	8.4	12.6
92	126.5	95.5	143.3

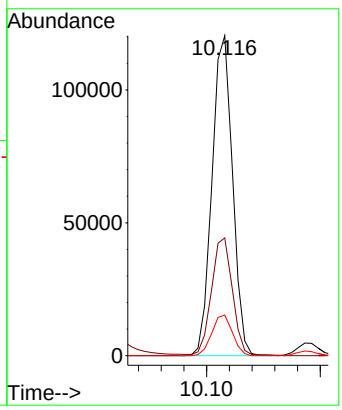




#55
Dibenzofuran
Concen: 5.937 ng
RT: 10.116 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:168 Resp: 15105

Ion	Ratio	Lower	Upper
168	100		
139	36.8	30.8	46.2
169	12.7	10.8	16.2

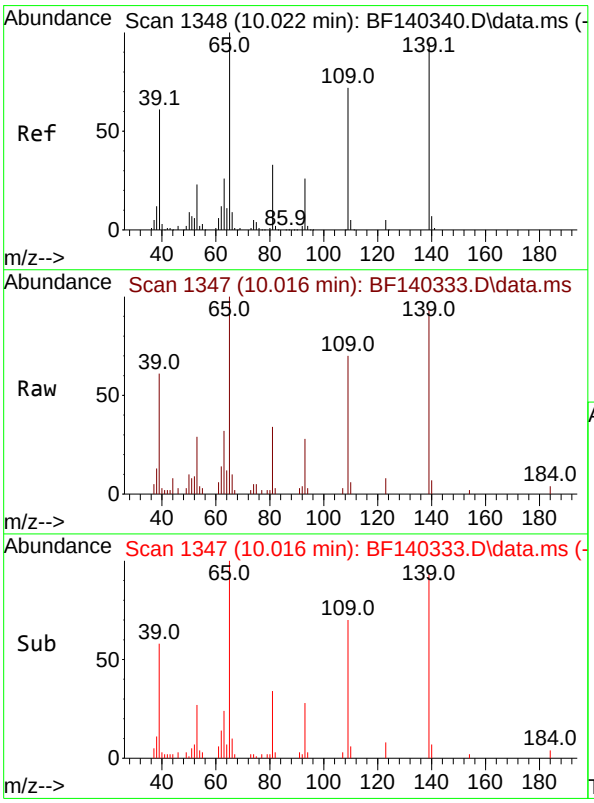


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

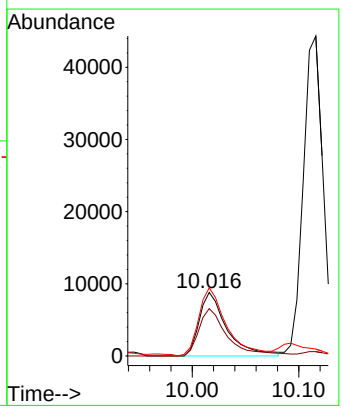
Supervised By :mohammad ahmed
11/14/2024

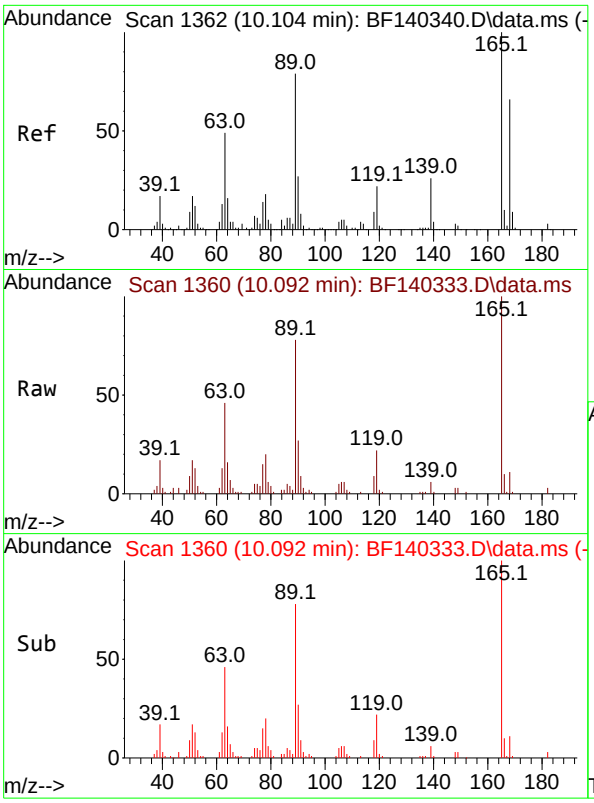


#56
4-Nitrophenol
Concen: 4.374 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:139 Resp: 15801

Ion	Ratio	Lower	Upper
139	100		
109	74.7	54.5	94.5
65	107.3	84.4	124.4

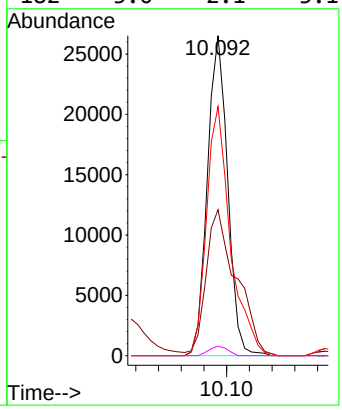




#57
2,4-Dinitrotoluene
Concen: 5.297 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:165 Resp: 3287

Ion	Ratio	Lower	Upper
165	100		
63	45.6	39.4	59.0
89	77.9	62.4	93.6
182	3.0	2.1	3.1

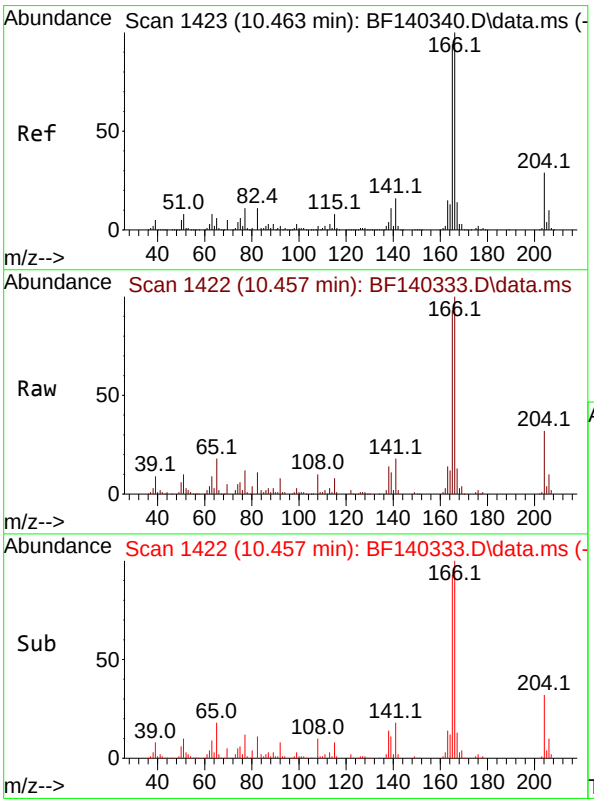


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

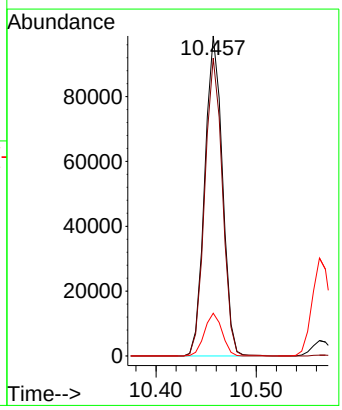
Supervised By :mohammad ahmed
11/14/2024

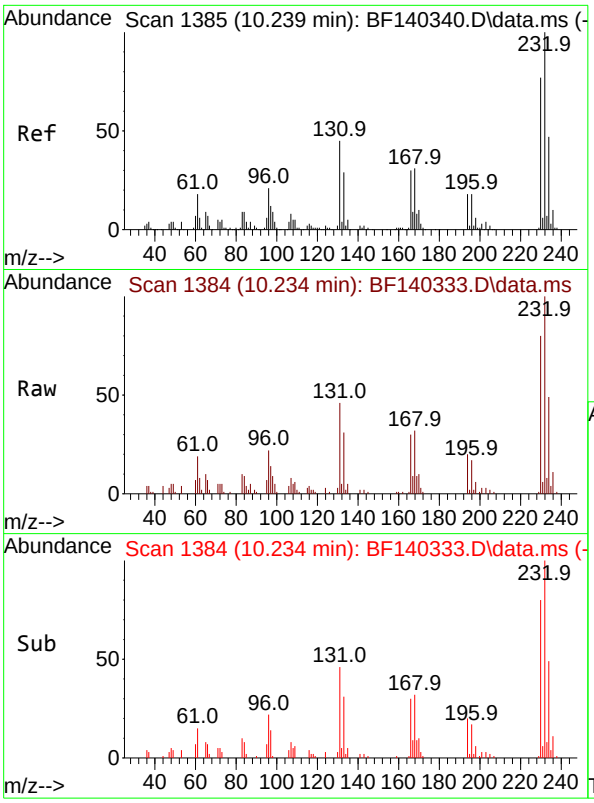


#58
Fluorene
Concen: 6.021 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:166 Resp: 121014

Ion	Ratio	Lower	Upper
166	100		
165	93.1	73.9	110.9
167	13.4	10.9	16.3

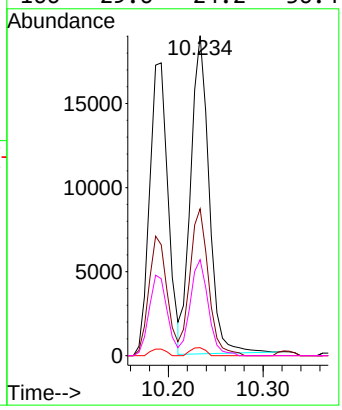




#59
2,3,4,6-Tetrachlorophenol
Concen: 5.149 ng
RT: 10.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:232 Resp: 2557

Ion	Ratio	Lower	Upper
232	100		
131	46.6	36.8	55.2
130	2.1	1.9	2.9
166	29.6	24.2	36.4

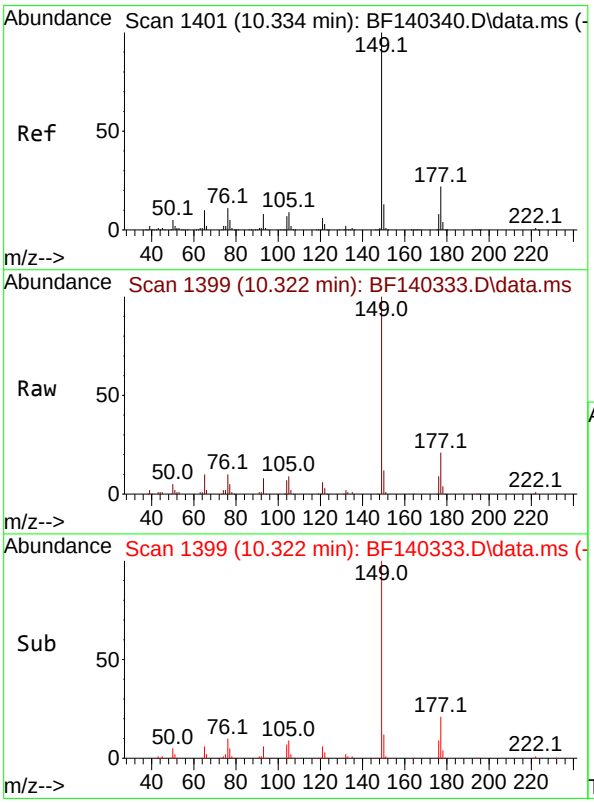


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

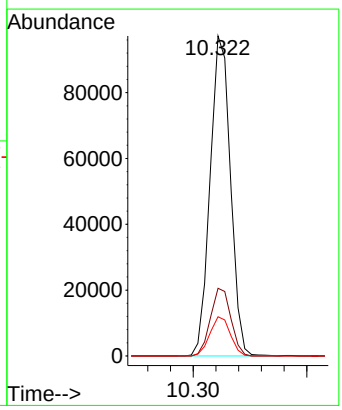
Supervised By :mohammad ahmed
11/14/2024

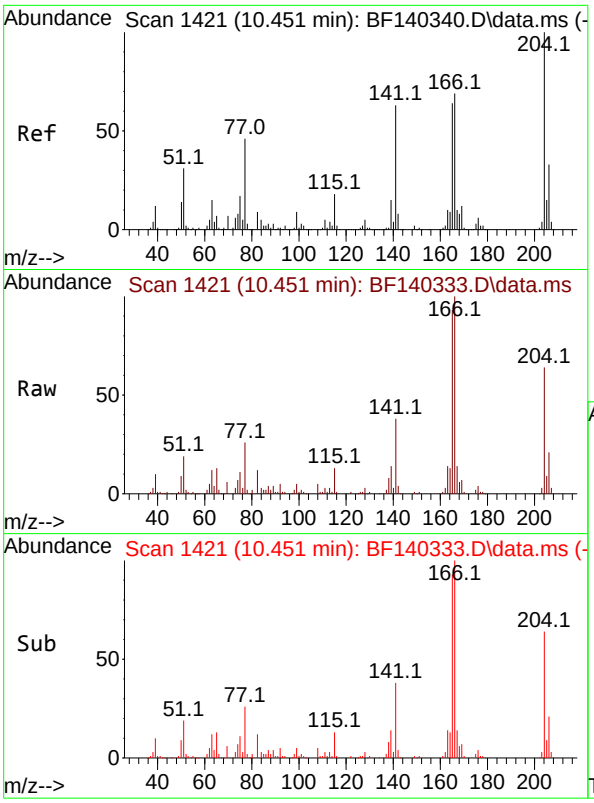


#60
Diethylphthalate
Concen: 5.720 ng
RT: 10.322 min Scan# 1399
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:149 Resp: 120988

Ion	Ratio	Lower	Upper
149	100		
177	21.2	17.5	26.3
150	12.3	10.1	15.1

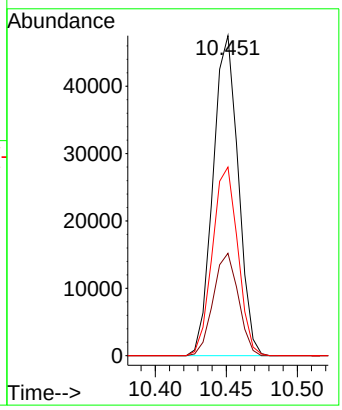




#61
4-Chlorophenyl-phenylether
Concen: 5.905 ng
RT: 10.451 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:204 Resp: 5859

Ion	Ratio	Lower	Upper
204	100		
206	32.0	26.0	39.0
141	58.9	49.8	74.8

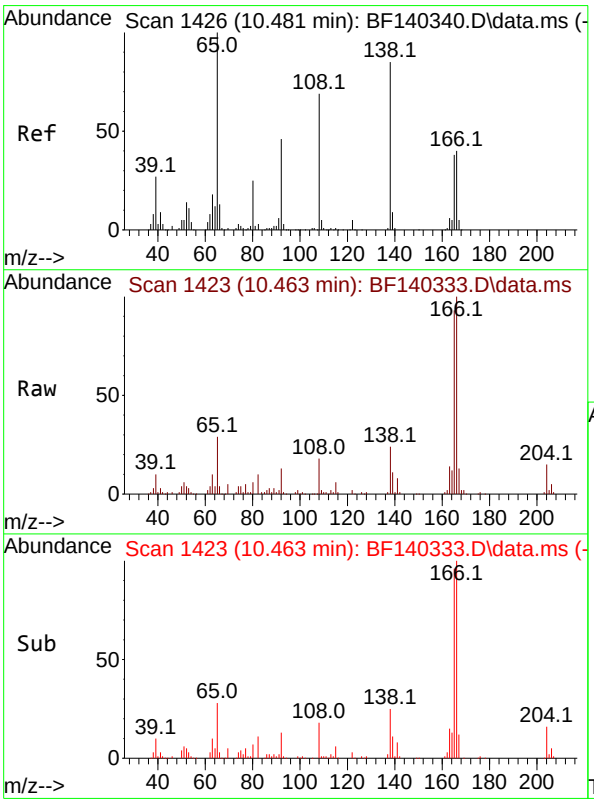


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

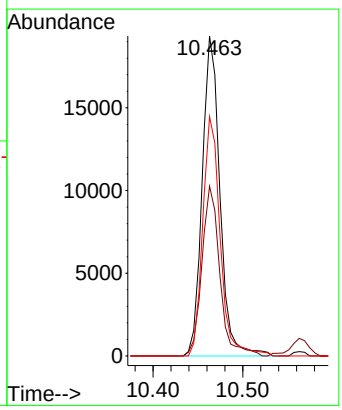
Supervised By :mohammad ahmed
11/14/2024

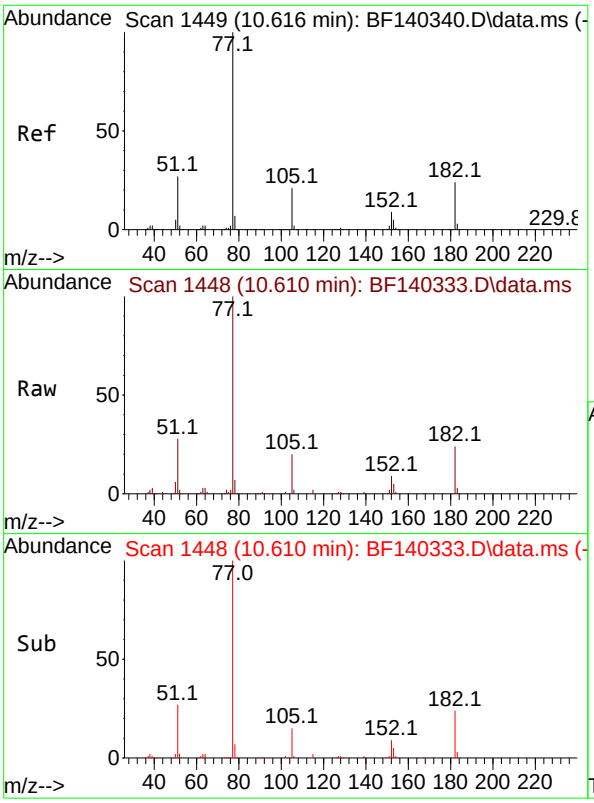


#62
4-Nitroaniline
Concen: 5.249 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.018 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:138 Resp: 26578

Ion	Ratio	Lower	Upper
138	100		
92	53.0	33.8	73.8
108	74.8	59.9	99.9

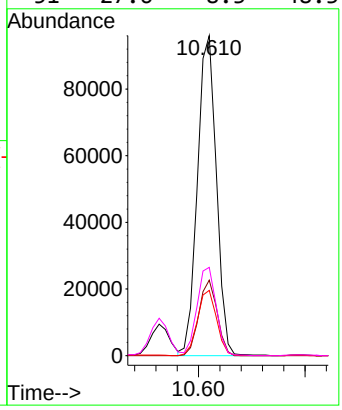




#63
Azobenzene
Concen: 5.685 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion: 77 Resp: 11881

Ion	Ratio	Lower	Upper
77	100		
182	23.6	4.6	44.6
105	20.4	0.9	40.9
51	27.6	8.3	48.3

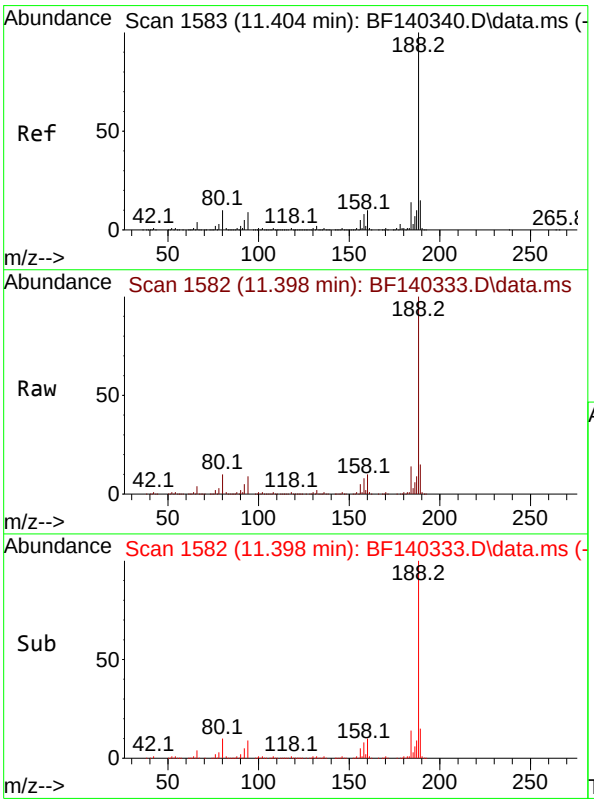


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

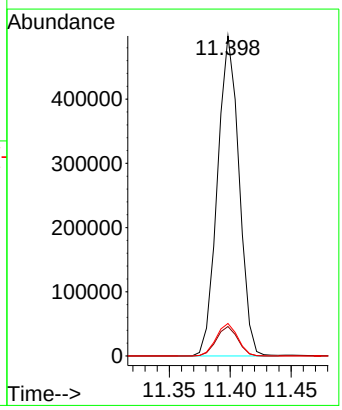
Supervised By :mohammad ahmed
11/14/2024

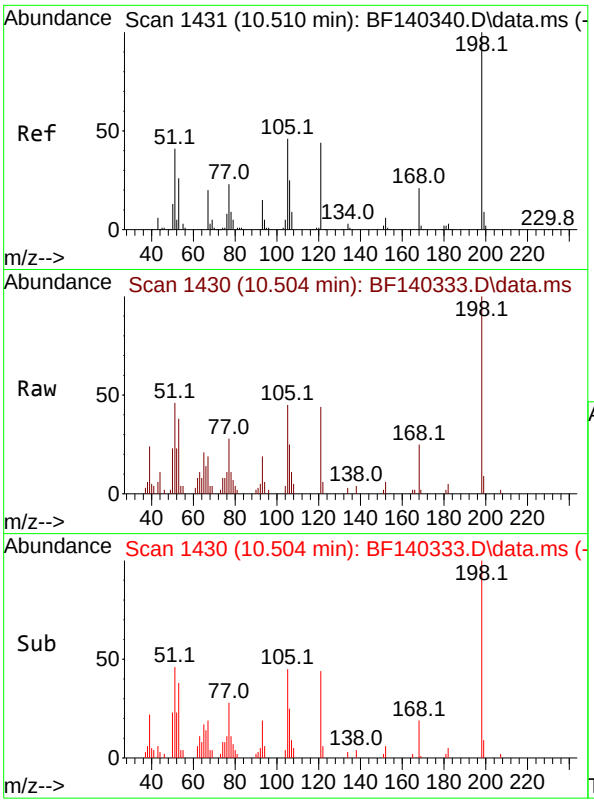


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:188 Resp: 615904

Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.6	11.4
80	10.1	8.0	12.0

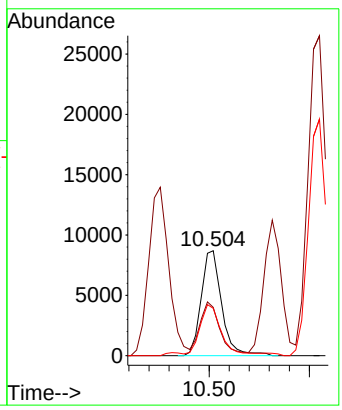




#65
4,6-Dinitro-2-methylphenol
Concen: 3.738 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:198 Resp: 1238

Ion	Ratio	Lower	Upper
198	100		
51	46.0	29.7	69.7
105	45.2	26.3	66.3

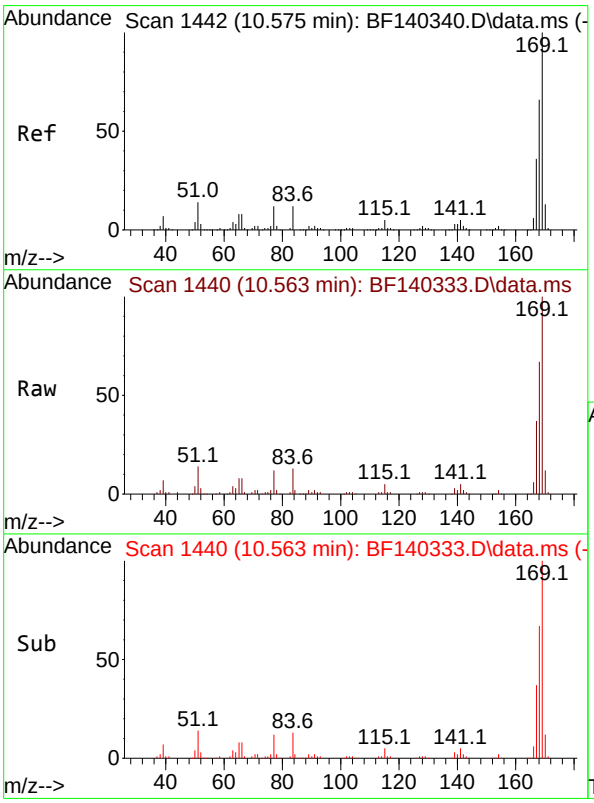


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

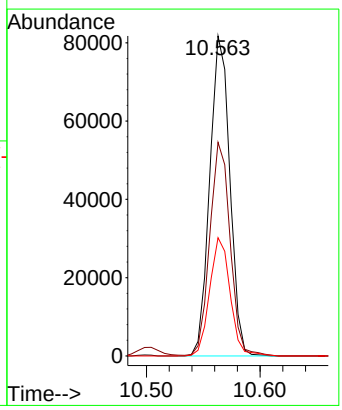
Supervised By :mohammad ahmed
11/14/2024

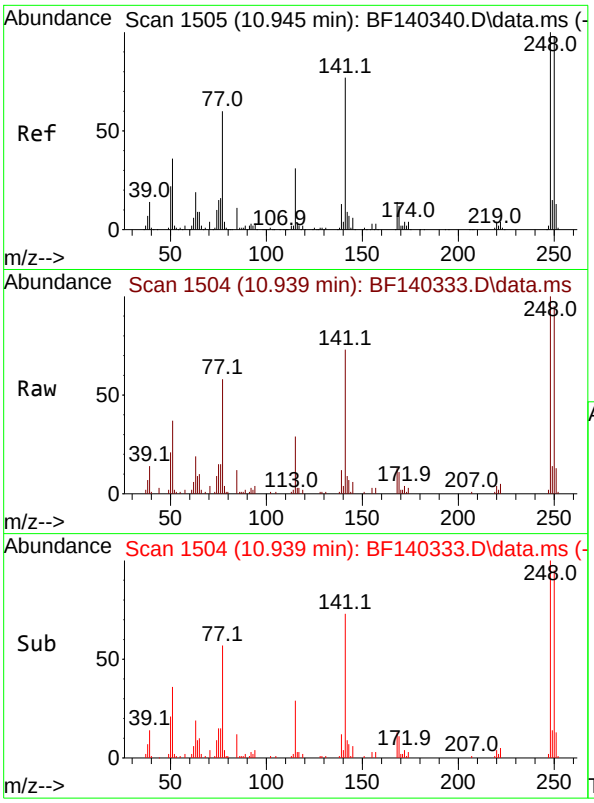


#66
n-Nitrosodiphenylamine
Concen: 5.636 ng
RT: 10.563 min Scan# 1440
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:169 Resp: 100287

Ion	Ratio	Lower	Upper
169	100		
168	66.7	52.7	79.1
167	36.9	29.3	43.9

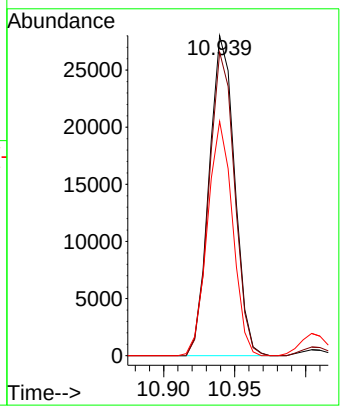




#67
4-Bromophenyl-phenylether
Concen: 5.685 ng
RT: 10.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:248 Resp: 3499

Ion	Ratio	Lower	Upper
248	100		
250	94.8	77.9	116.9
141	73.2	61.8	92.6

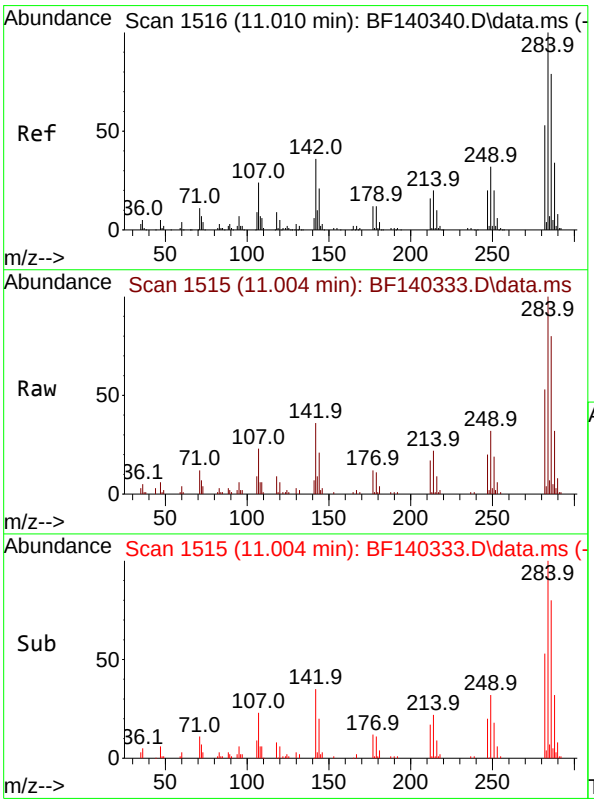


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

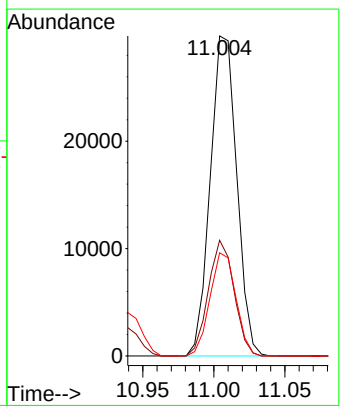
Supervised By :mohammad ahmed
11/14/2024

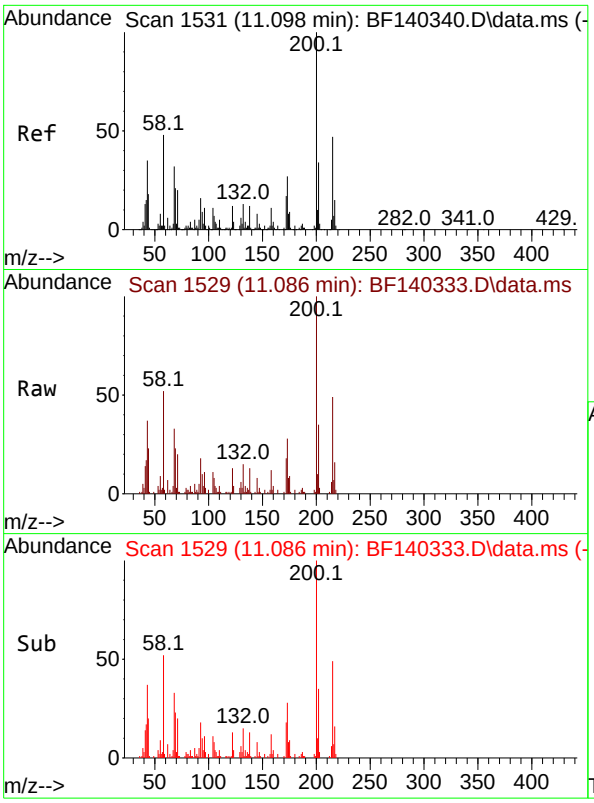


#68
Hexachlorobenzene
Concen: 5.576 ng
RT: 11.004 min Scan# 1515
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:284 Resp: 38627

Ion	Ratio	Lower	Upper
284	100		
142	36.1	28.1	42.1
249	32.3	24.9	37.3

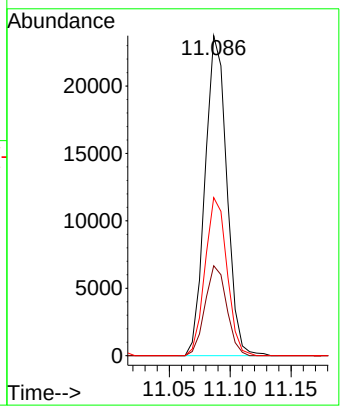




#69
Atrazine
Concen: 5.472 ng
RT: 11.086 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:200 Resp: 2946

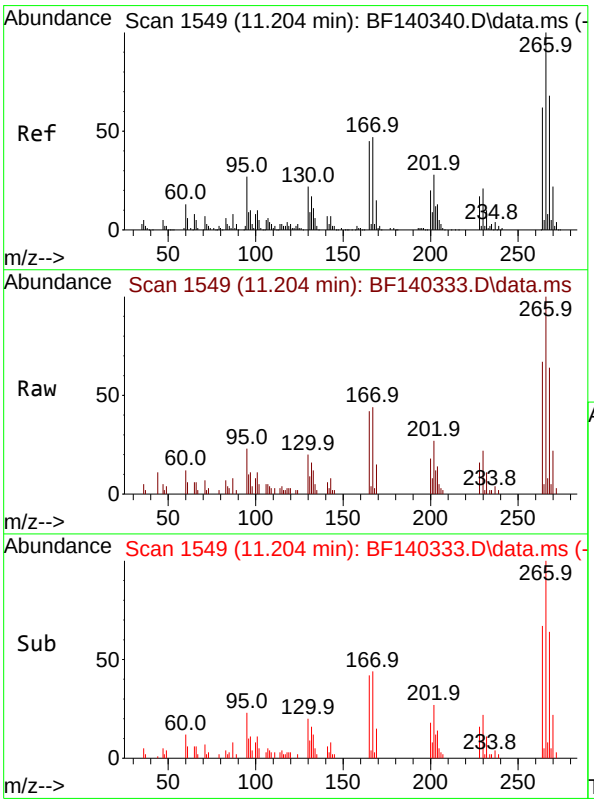
Ion	Ratio	Lower	Upper
200	100		
173	28.1	6.6	46.6
215	49.4	27.2	67.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

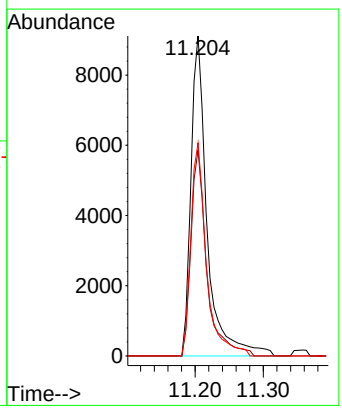
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

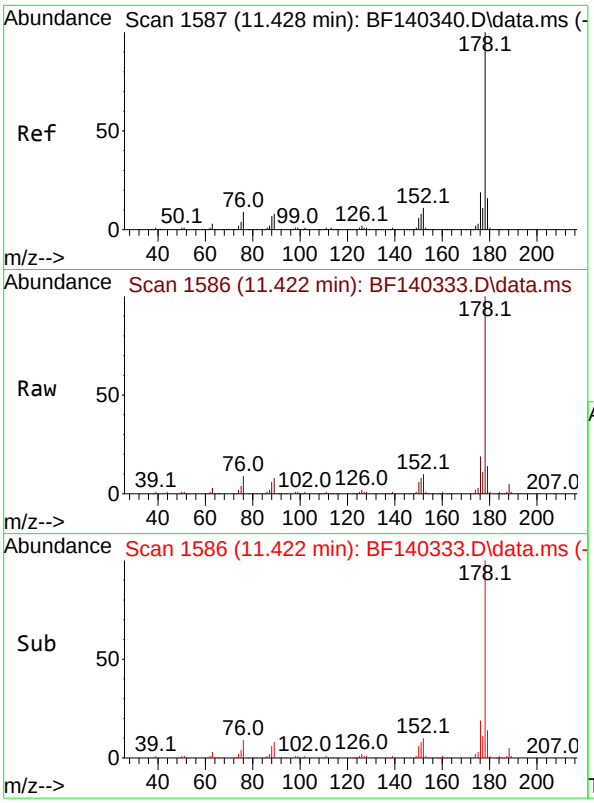


#70
Pentachlorophenol
Concen: 4.016 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:266 Resp: 14987

Ion	Ratio	Lower	Upper
266	100		
268	64.3	52.9	79.3
264	66.6	50.3	75.5

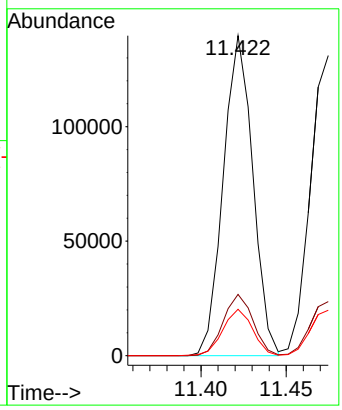




#71
Phenanthrene
Concen: 5.832 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:178 Resp: 16874

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	14.5	12.4	18.6

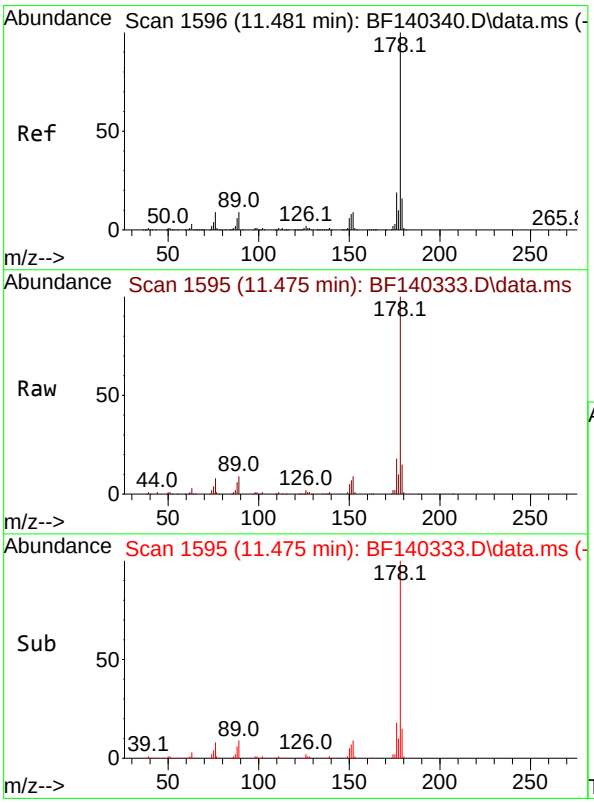


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

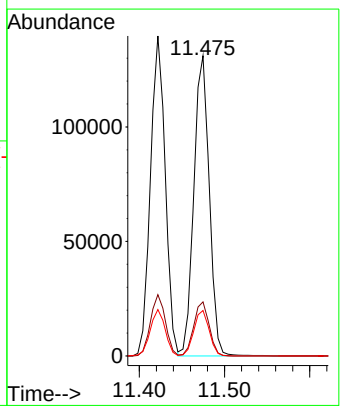
Supervised By :mohammad ahmed
11/14/2024

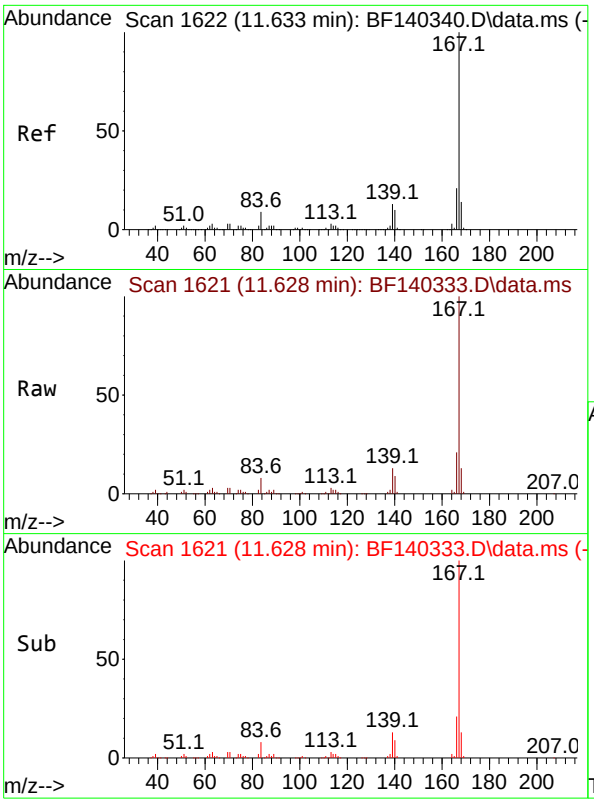


#72
Anthracene
Concen: 5.816 ng
RT: 11.475 min Scan# 1595
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:178 Resp: 164923

Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.0
179	15.2	12.6	18.8

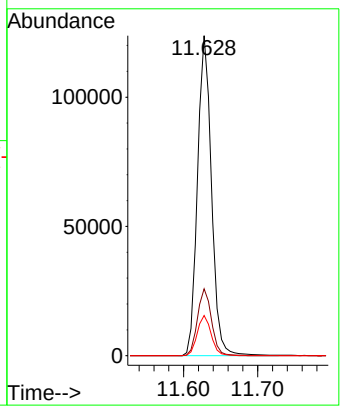




#73
Carbazole
Concen: 5.789 ng
RT: 11.628 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:167 Resp: 16208

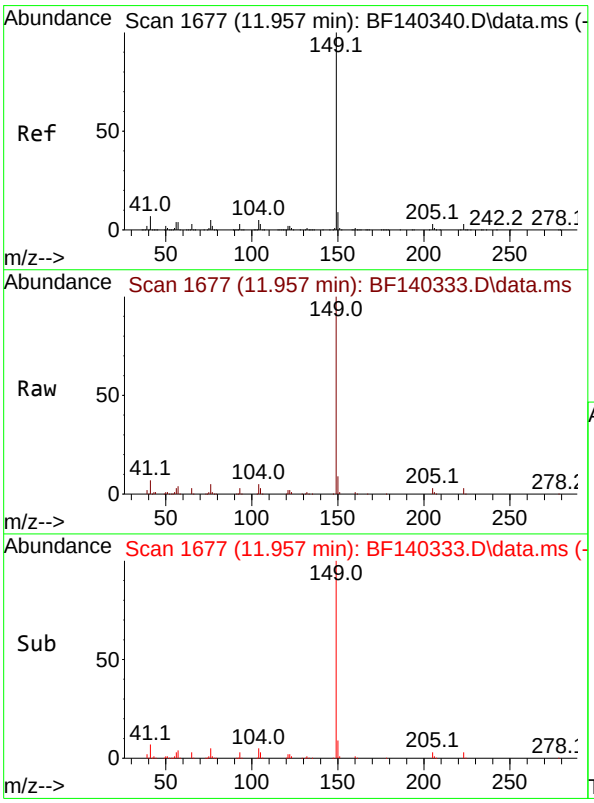
Ion	Ratio	Lower	Upper
167	100		
166	20.9	17.2	25.8
139	12.6	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

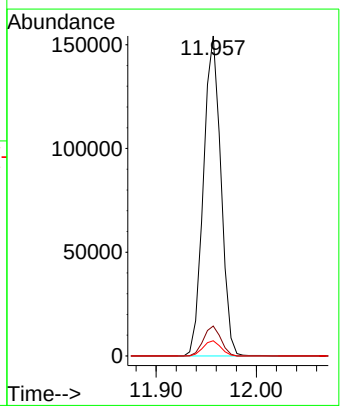
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

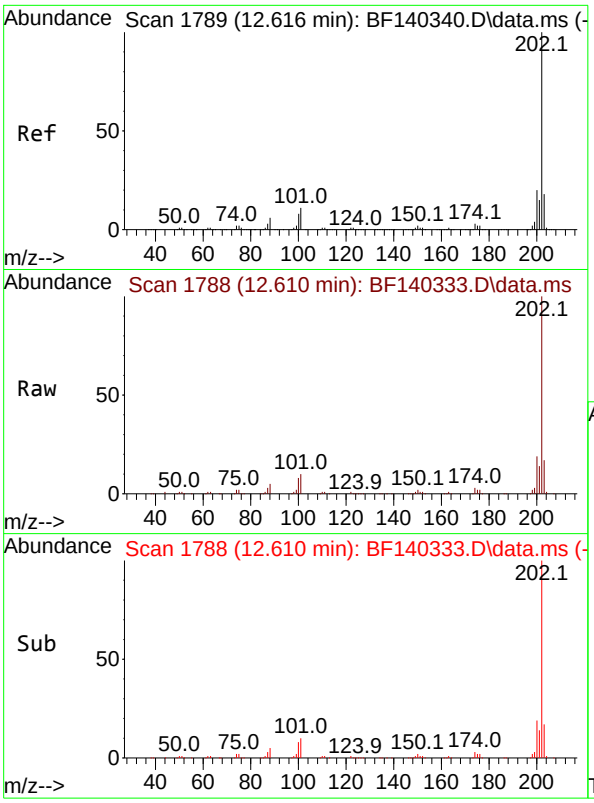


#74
Di-n-butylphthalate
Concen: 5.563 ng
RT: 11.957 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:149 Resp: 186931

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	4.8	4.0	6.0

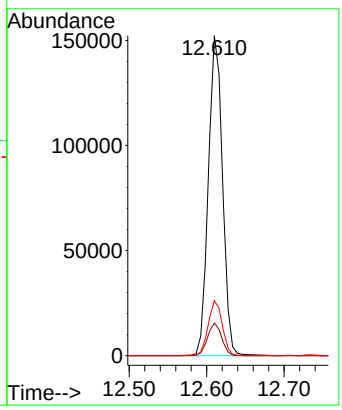




#75
Fluoranthene
Concen: 5.956 ng
RT: 12.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:202 Resp: 19334

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.7
203	17.2	0.0	37.7

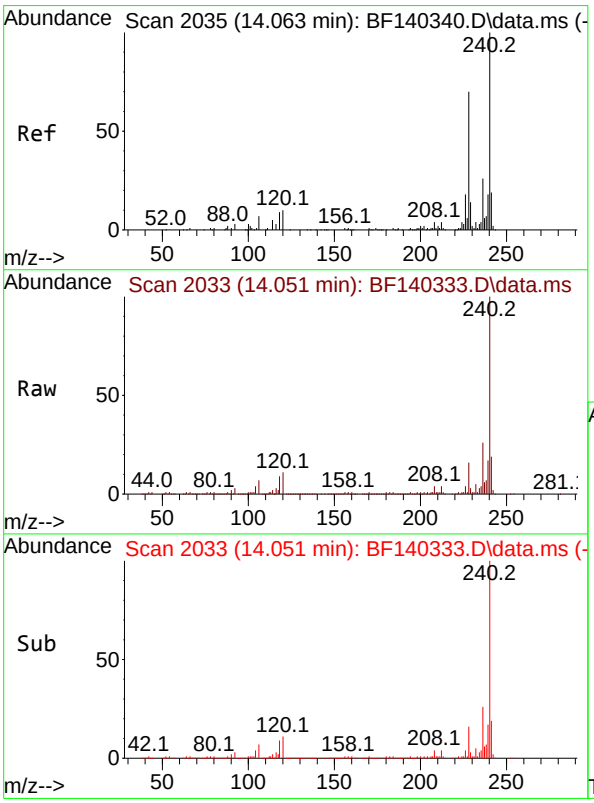


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

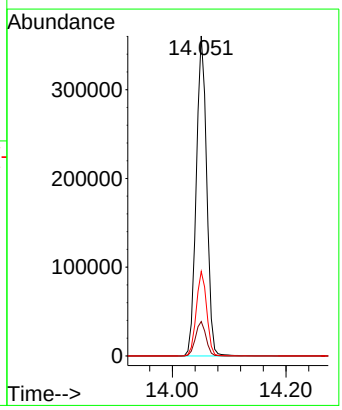
Supervised By :mohammad ahmed
11/14/2024

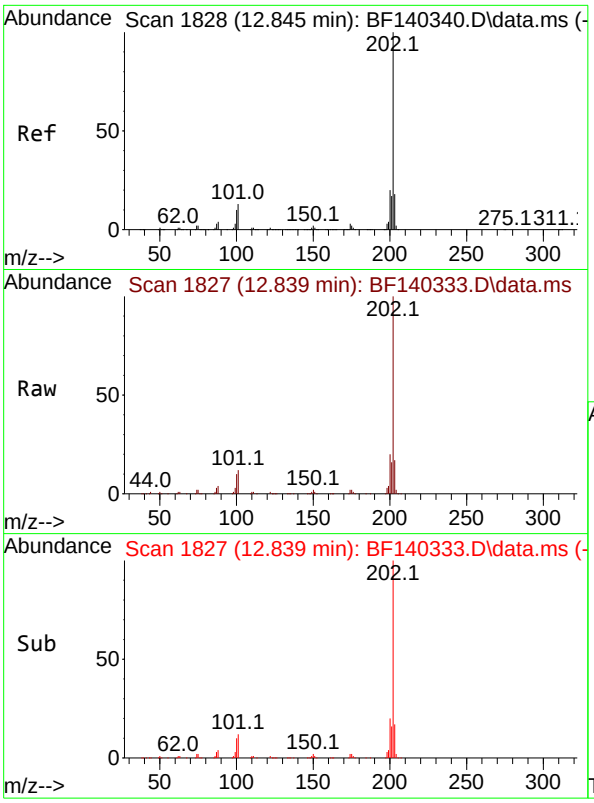


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:240 Resp: 462864

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.8	13.2
236	26.4	20.9	31.3

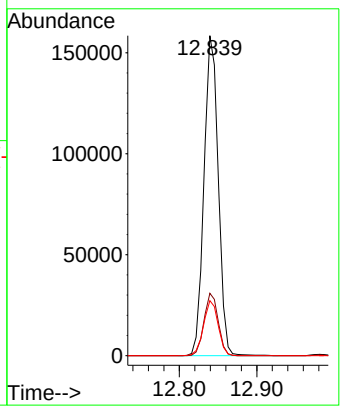




#78
Pyrene
Concen: 5.109 ng
RT: 12.839 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:202 Resp: 20226

Ion	Ratio	Lower	Upper
202	100		
200	19.5	16.2	24.2
203	17.2	14.2	21.4

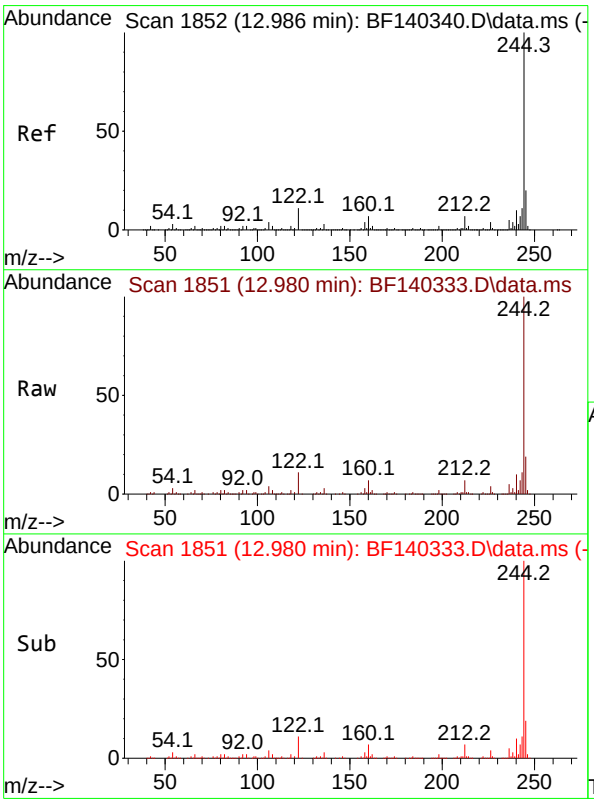


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

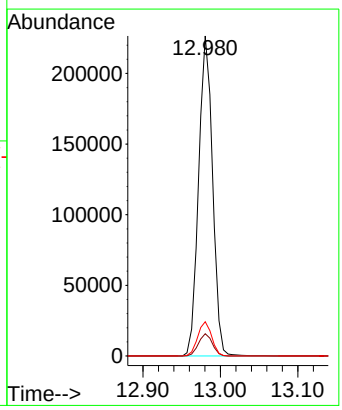
Supervised By :mohammad ahmed
11/14/2024

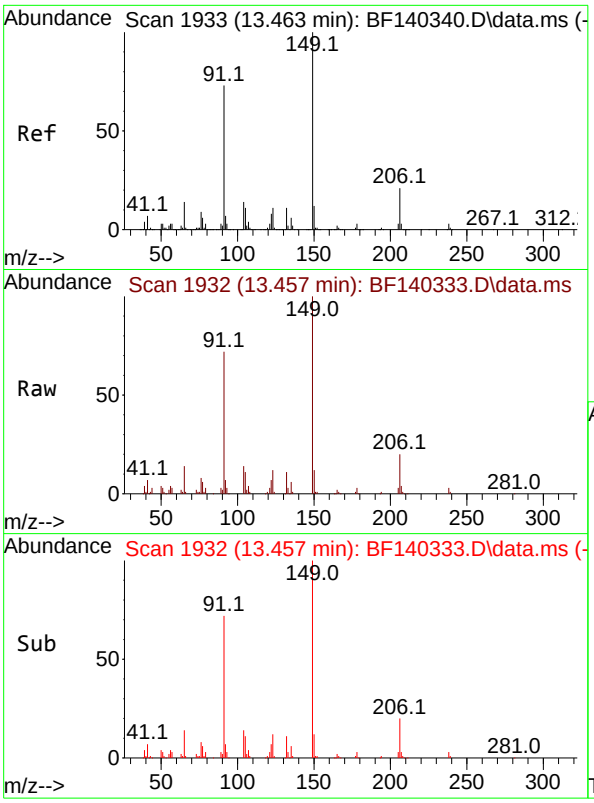


#79
Terphenyl-d14
Concen: 10.644 ng
RT: 12.980 min Scan# 1851
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:244 Resp: 283824

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.8	8.8
122	10.7	8.8	13.2

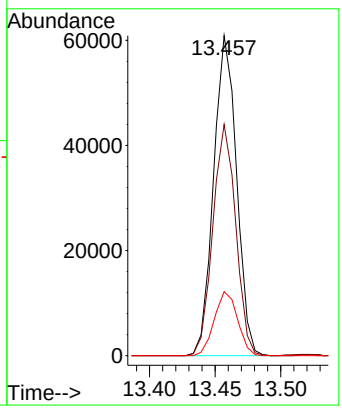




#80
Butylbenzylphthalate
Concen: 4.870 ng
RT: 13.457 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:149 Resp: 7407

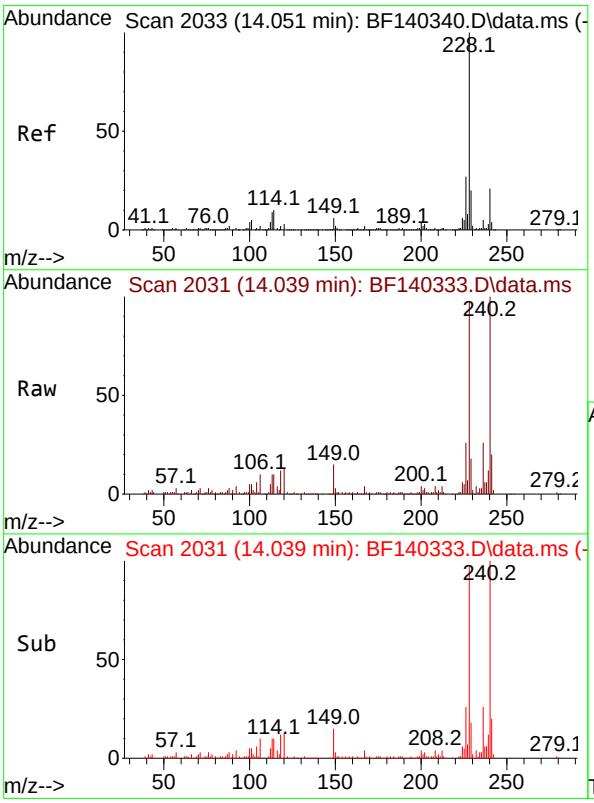
Ion	Ratio	Lower	Upper
149	100		
91	72.3	61.0	91.4
206	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

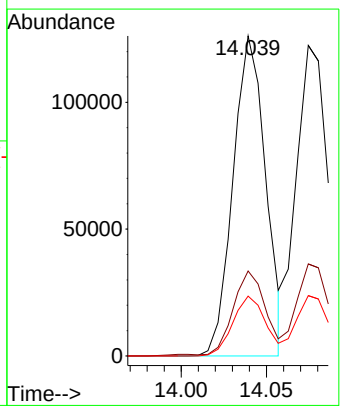
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

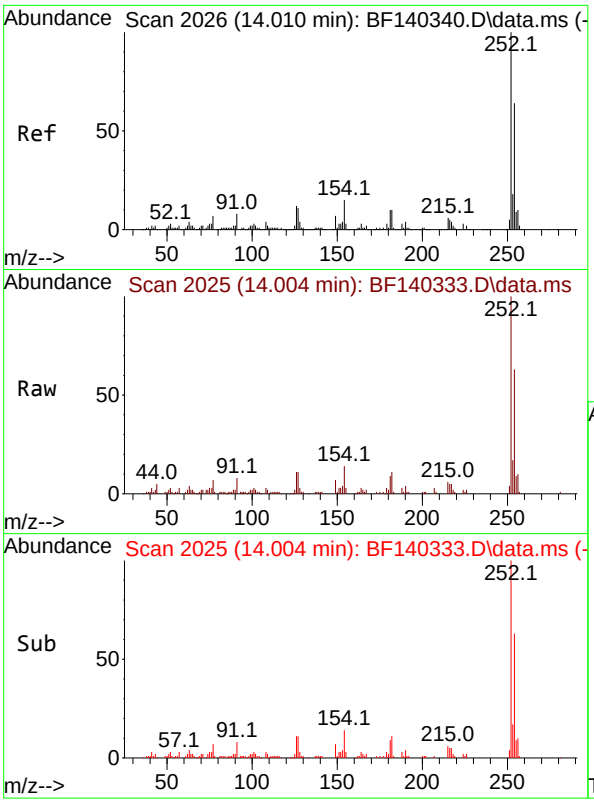


#81
Benzo(a)anthracene
Concen: 5.518 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:228 Resp: 167855

Ion	Ratio	Lower	Upper
228	100		
226	26.5	22.2	33.4
229	18.7	15.8	23.6

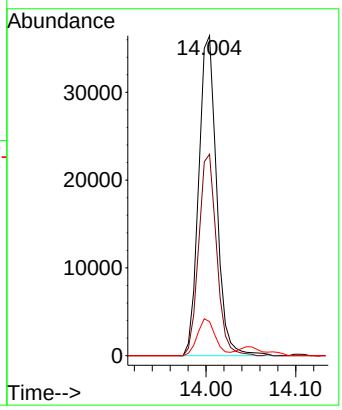




#82
3,3'-Dichlorobenzidine
Concen: 5.237 ng
RT: 14.004 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:252 Resp: 5063

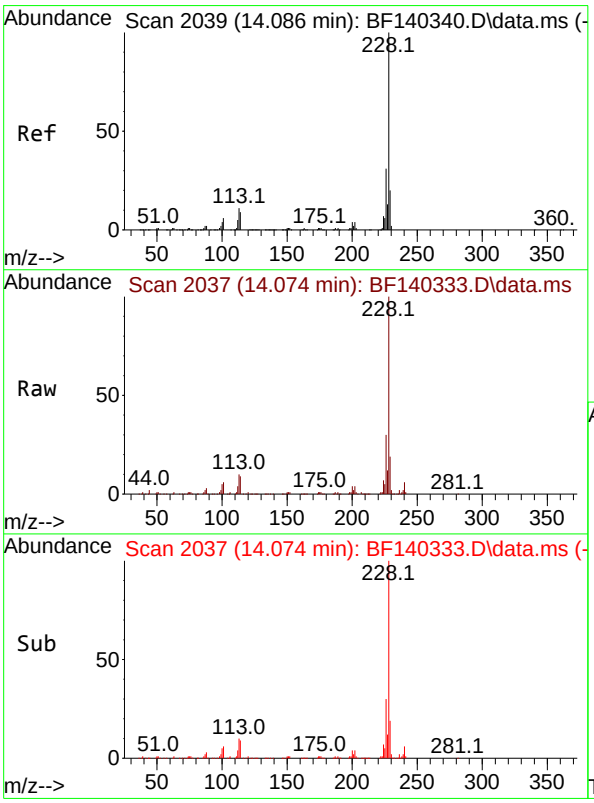
Ion	Ratio	Lower	Upper
252	100		
254	63.0	51.4	77.2
126	10.6	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

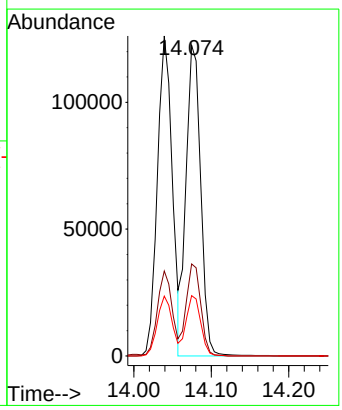
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

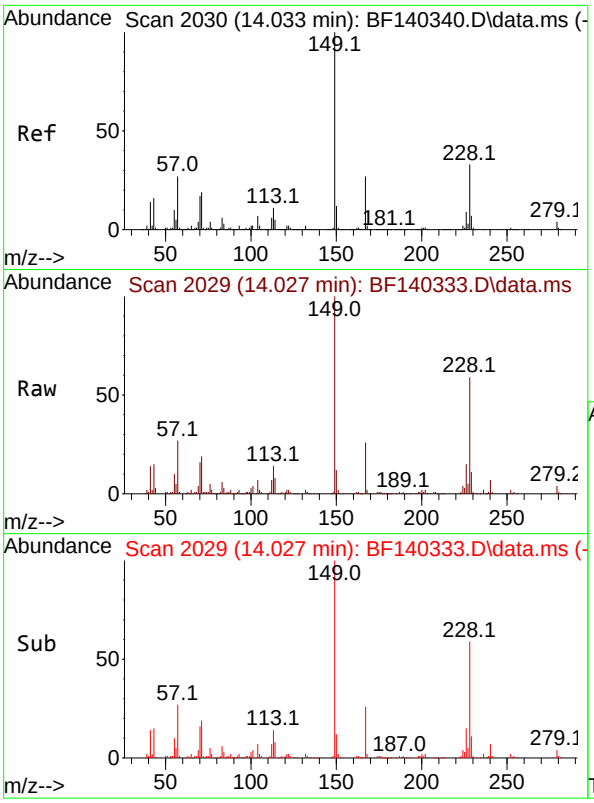


#83
Chrysene
Concen: 5.810 ng
RT: 14.074 min Scan# 2037
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:228 Resp: 161255

Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.5	36.7
229	19.4	16.0	24.0

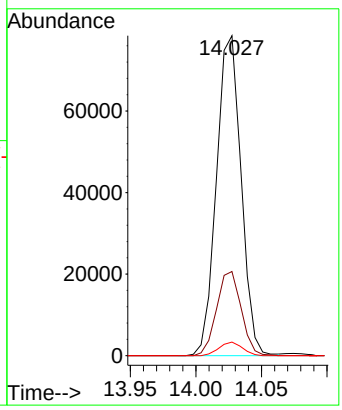




#84
Bis(2-ethylhexyl)phthalate
Concen: 5.051 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:149 Resp: 10253

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.4	32.0
279	4.2	3.0	4.6

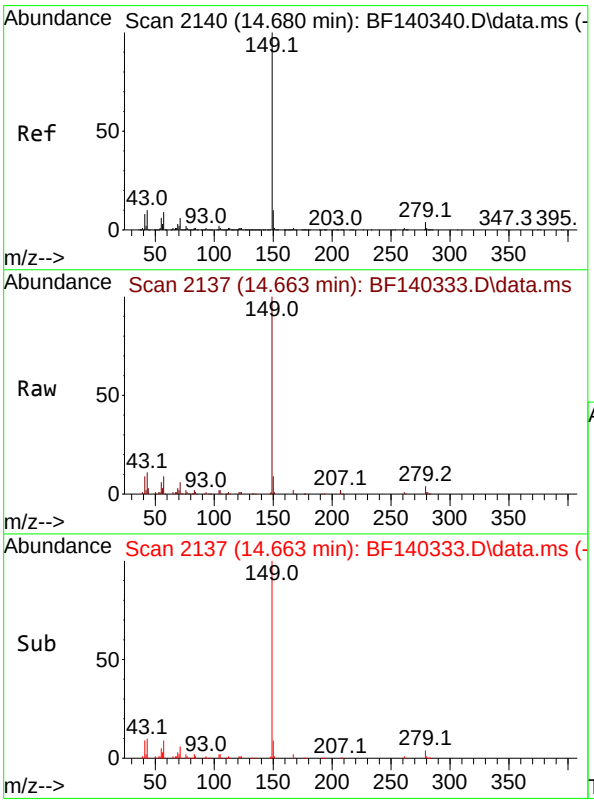


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

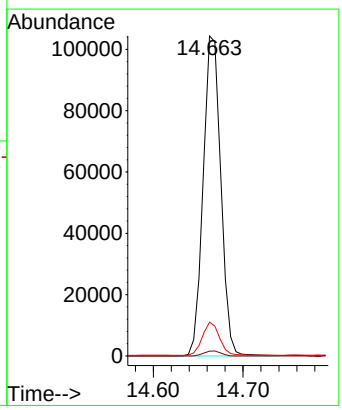
Supervised By :mohammad ahmed
11/14/2024

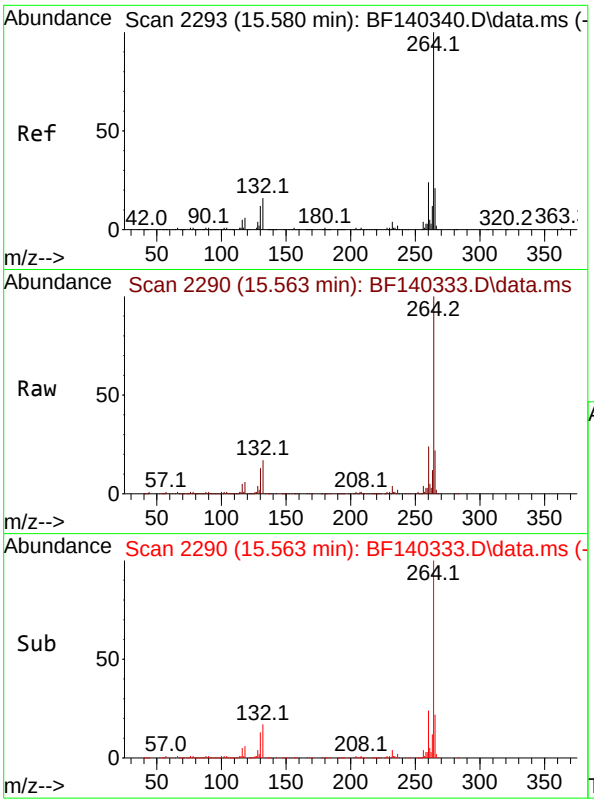


#85
Di-n-octyl phthalate
Concen: 4.984 ng
RT: 14.663 min Scan# 2137
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:149 Resp: 142493

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.1	8.0	12.0

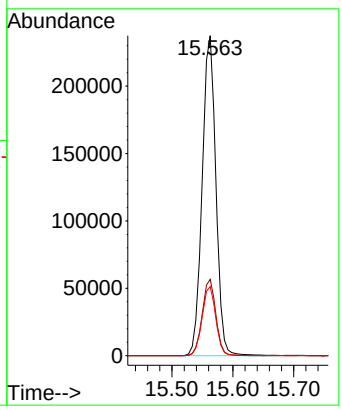




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:264 Resp: 37211

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.6	17.1	25.7

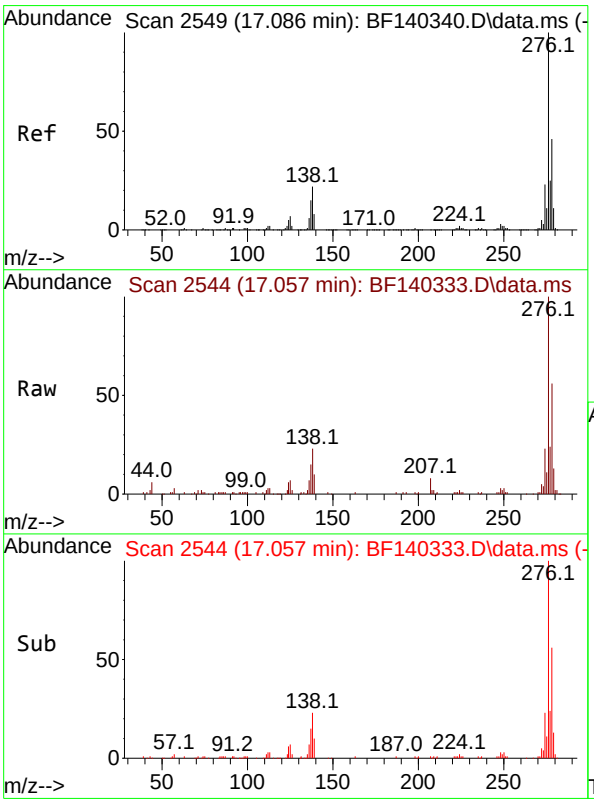


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

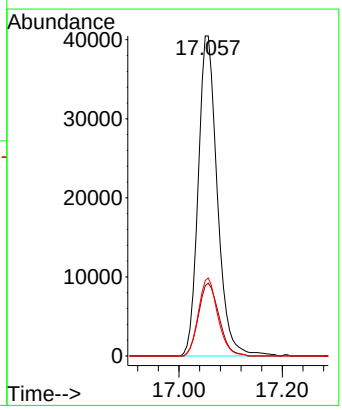
Supervised By :mohammad ahmed
11/14/2024

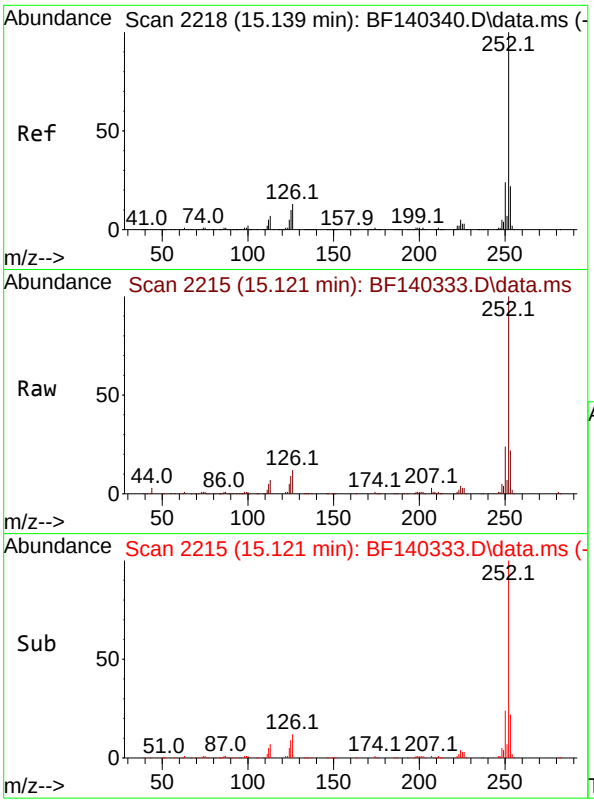


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.517 ng
RT: 17.057 min Scan# 2544
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:276 Resp: 103830

Ion	Ratio	Lower	Upper
276	100		
138	24.4	18.8	28.2
277	24.6	20.2	30.2

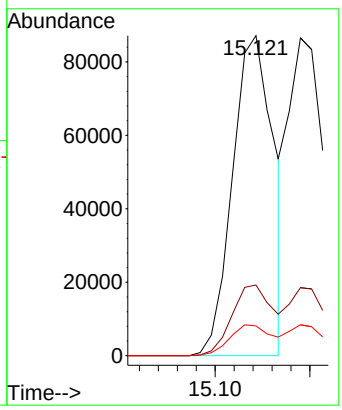




#88
Benzo(b)fluoranthene
Concen: 5.371 ng
RT: 15.121 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:252 Resp: 13073

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.3	8.0	12.0

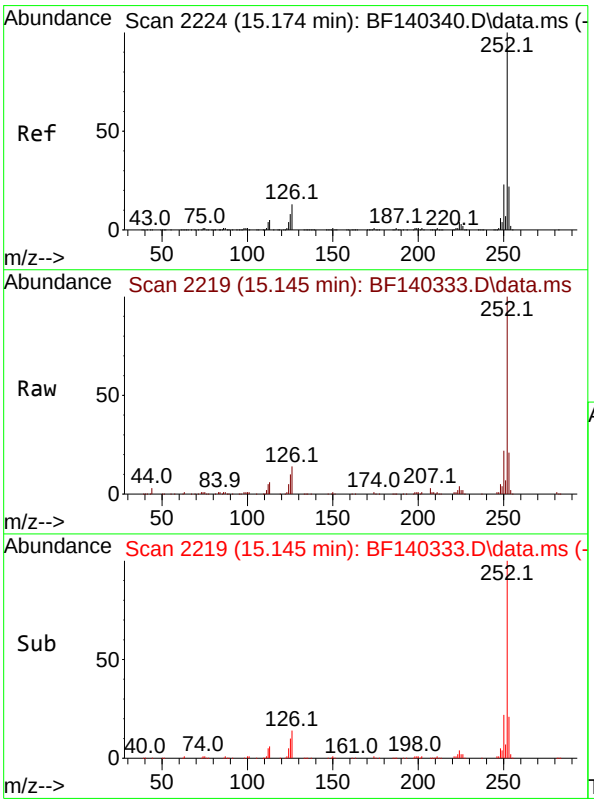


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

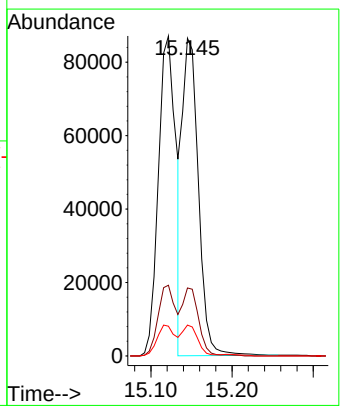
Supervised By :mohammad ahmed
11/14/2024

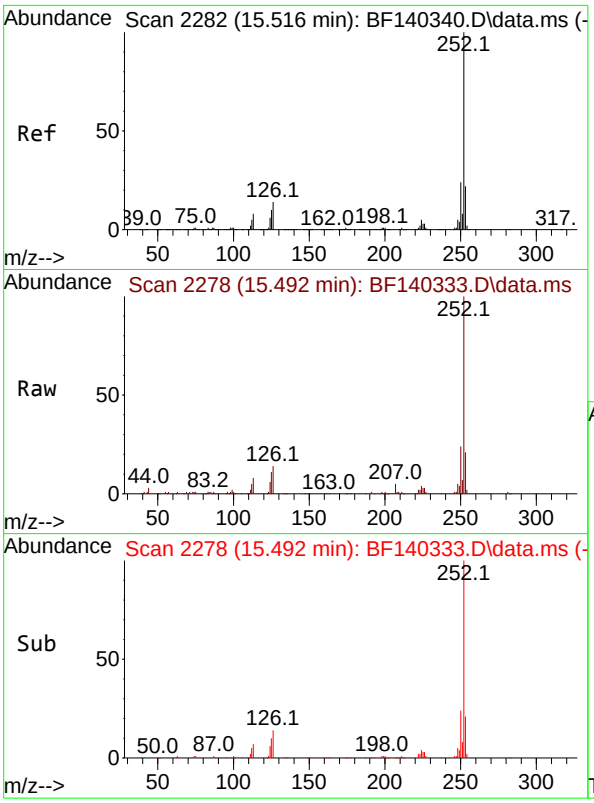


#89
Benzo(k)fluoranthene
Concen: 6.014 ng
RT: 15.145 min Scan# 2219
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:252 Resp: 119602

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.3	25.9
125	9.7	7.4	11.2

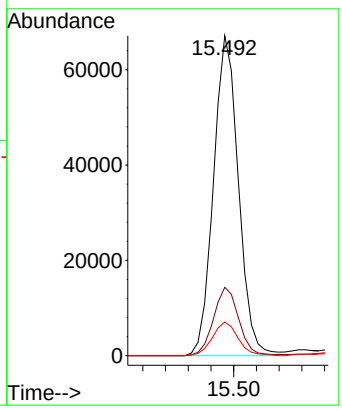




#90
Benzo(a)pyrene
Concen: 5.415 ng
RT: 15.492 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:252 Resp: 10236

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.8	26.6
125	10.5	8.4	12.6

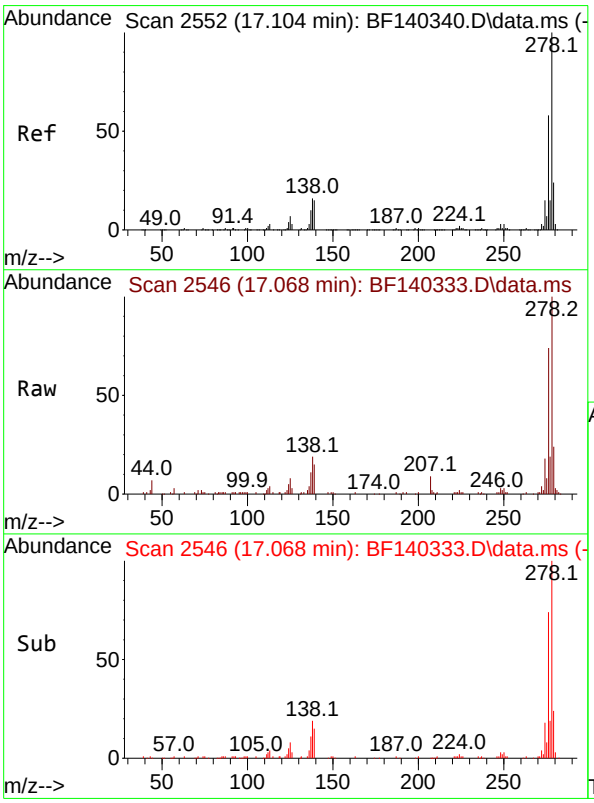


Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

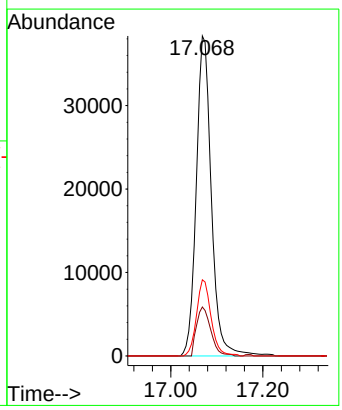
Supervised By :mohammad ahmed
11/14/2024

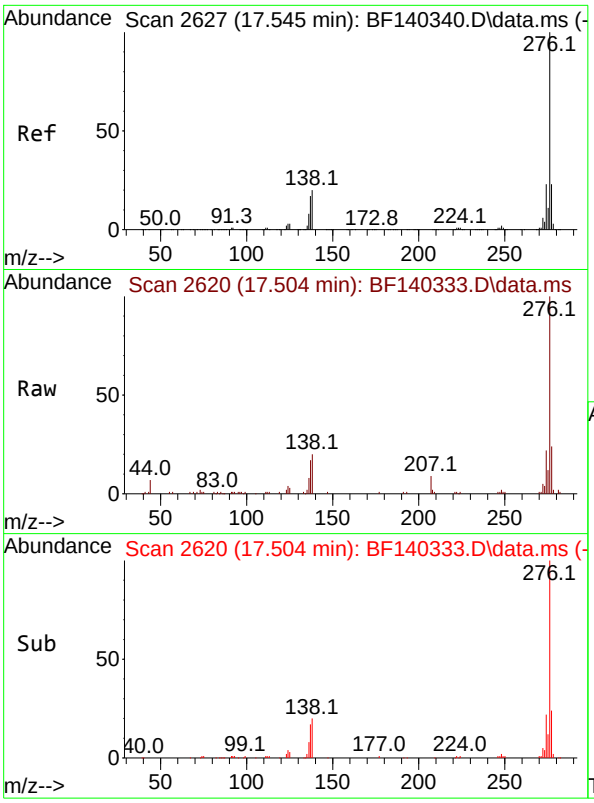


#91
Dibenzo(a,h)anthracene
Concen: 4.607 ng
RT: 17.068 min Scan# 2546
Delta R.T. -0.006 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:278 Resp: 87528

Ion	Ratio	Lower	Upper
278	100		
139	15.3	11.8	17.8
279	23.8	18.9	28.3

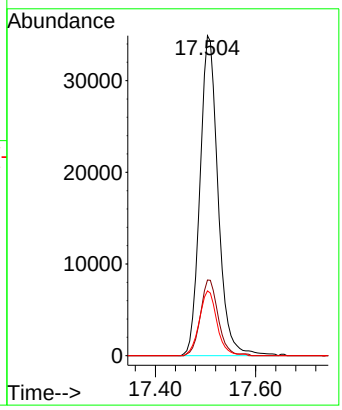




#92
Benzo(g,h,i)perylene
Concen: 4.507 ng
RT: 17.504 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140333.D
Acq: 13 Nov 2024 09:27

Tgt Ion:276 Resp: 8754

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.6	28.0
138	20.2	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

Supervised By :mohammad ahmed
11/14/2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140334.D
Acq On : 13 Nov 2024 09:53
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 13 14:23:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	151757	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	576727	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	332343	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	625922	20.000	ng		0.00
76) Chrysene-d12	14.051	240	456049	20.000	ng		0.00
86) Perylene-d12	15.562	264	358045	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	190834	21.470	ng		0.00
7) Phenol-d6	6.492	99	256677	21.315	ng		-0.01
23) Nitrobenzene-d5	7.434	82	231031	20.872	ng		0.00
42) 2,4,6-Tribromophenol	10.698	330	70040	21.193	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	463950	22.441	ng		0.00
79) Terphenyl-d14	12.980	244	540367	20.567	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.640	88	41430	10.458	ng		98
3) Pyridine	3.416	79	101886	10.462	ng		100
4) n-Nitrosodimethylamine	3.346	42	47921	9.736	ng		96
6) Aniline	6.534	93	115851	11.059	ng		99
8) 2-Chlorophenol	6.657	128	102376	10.723	ng		100
9) Benzaldehyde	6.428	77	82498	11.431	ng		99
10) Phenol	6.510	94	136055	10.713	ng		96
11) bis(2-Chloroethyl)ether	6.604	93	98194	10.205	ng		97
12) 1,3-Dichlorobenzene	6.816	146	111939	10.626	ng		99
13) 1,4-Dichlorobenzene	6.892	146	116395	10.897	ng		99
14) 1,2-Dichlorobenzene	7.045	146	108453	10.937	ng		98
15) Benzyl Alcohol	7.010	79	90500	10.431	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	138565	10.425	ng		99
17) 2-Methylphenol	7.122	107	80567	10.258	ng		99
18) Hexachloroethane	7.387	117	41189	10.431	ng		97
19) n-Nitroso-di-n-propyla...	7.275	70	76077	10.460	ng		96
20) 3+4-Methylphenols	7.275	107	108265	11.022	ng	#	89
22) Acetophenone	7.281	105	146536	10.925	ng		97
24) Nitrobenzene	7.451	77	121397	10.534	ng		99
25) Isophorone	7.686	82	202309	10.313	ng		98
26) 2-Nitrophenol	7.769	139	51547	10.079	ng		97
27) 2,4-Dimethylphenol	7.804	122	68066	10.396	ng		100
28) bis(2-Chloroethoxy)met...	7.898	93	127440	10.594	ng		99
29) 2,4-Dichlorophenol	8.010	162	85290	10.540	ng		98
30) 1,2,4-Trichlorobenzene	8.098	180	95485	10.599	ng		99
31) Naphthalene	8.181	128	318527	10.887	ng		99
32) Benzoic acid	7.875	122	51387m	8.934	ng		
33) 4-Chloroaniline	8.222	127	111264	10.936	ng		99
34) Hexachlorobutadiene	8.292	225	61596	10.731	ng		99
35) Caprolactam	8.563	113	26940	9.902	ng		97
36) 4-Chloro-3-methylphenol	8.698	107	94282	10.514	ng		99
37) 2-Methylnaphthalene	8.869	142	203533	10.850	ng		99
38) 1-Methylnaphthalene	8.969	142	200722	10.926	ng		99
40) 1,2,4,5-Tetrachloroben...	9.033	216	97174	10.573	ng		98
41) Hexachlorocyclopentadiene	9.022	237	18405	7.800	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	62134	10.302	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140334.D
Acq On : 13 Nov 2024 09:53
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:23:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	69370	10.520	ng	98
46) 1,1'-Biphenyl	9.328	154	261030	10.796	ng	99
47) 2-Chloronaphthalene	9.357	162	196370	10.662	ng	99
48) 2-Nitroaniline	9.451	65	60634	9.927	ng	99
49) Acenaphthylene	9.769	152	299521	10.749	ng	100
50) Dimethylphthalate	9.628	163	225705	10.419	ng	99
51) 2,6-Dinitrotoluene	9.692	165	50400	10.206	ng	97
52) Acenaphthene	9.945	154	200055	10.629	ng	99
53) 3-Nitroaniline	9.857	138	54319	10.473	ng	99
54) 2,4-Dinitrophenol	9.969	184	18126	7.117	ng	98
55) Dibenzofuran	10.116	168	288411	10.825	ng	98
56) 4-Nitrophenol	10.016	139	36056	9.531	ng	98
57) 2,4-Dinitrotoluene	10.092	165	66496	10.231	ng	98
58) Fluorene	10.457	166	233209	11.080	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	54566m	10.489	ng	
60) Diethylphthalate	10.328	149	235508	10.632	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	114328	11.002	ng	98
62) 4-Nitroaniline	10.469	138	54026	10.188	ng	98
63) Azobenzene	10.610	77	231165	10.562	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	30629	9.095	ng	97
66) n-Nitrosodiphenylamine	10.563	169	197047	10.896	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	65844	10.524	ng	98
68) Hexachlorobenzene	11.010	284	75713	10.755	ng	95
69) Atrazine	11.092	200	57244	10.462	ng	99
70) Pentachlorophenol	11.204	266	33884	8.935	ng	98
71) Phenanthrene	11.422	178	329580	11.209	ng	99
72) Anthracene	11.475	178	318560	11.055	ng	98
73) Carbazole	11.627	167	315859	11.101	ng	99
74) Di-n-butylphthalate	11.957	149	368412	10.788	ng	99
75) Fluoranthene	12.610	202	375846	11.394	ng	99
77) Benzidine	12.733	184	144597	8.261	ng	99
78) Pyrene	12.839	202	388982	9.972	ng	98
80) Butylbenzylphthalate	13.457	149	145394	9.702	ng	98
81) Benzo(a)anthracene	14.039	228	323440	10.791	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	98211	10.309	ng	99
83) Chrysene	14.080	228	282868	10.343	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	202970	10.147	ng	99
85) Di-n-octyl phthalate	14.668	149	277399	9.847	ng	100
87) Indeno(1,2,3-cd)pyrene	17.062	276	205803	9.305	ng	99
88) Benzo(b)fluoranthene	15.127	252	241957	10.331	ng	99
89) Benzo(k)fluoranthene	15.151	252	222087	11.607	ng	99
90) Benzo(a)pyrene	15.498	252	188533	10.366	ng	98
91) Dibenzo(a,h)anthracene	17.080	278	170496	9.326	ng	100
92) Benzo(g,h,i)perylene	17.515	276	172345	9.221	ng	100

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

ICAL Form

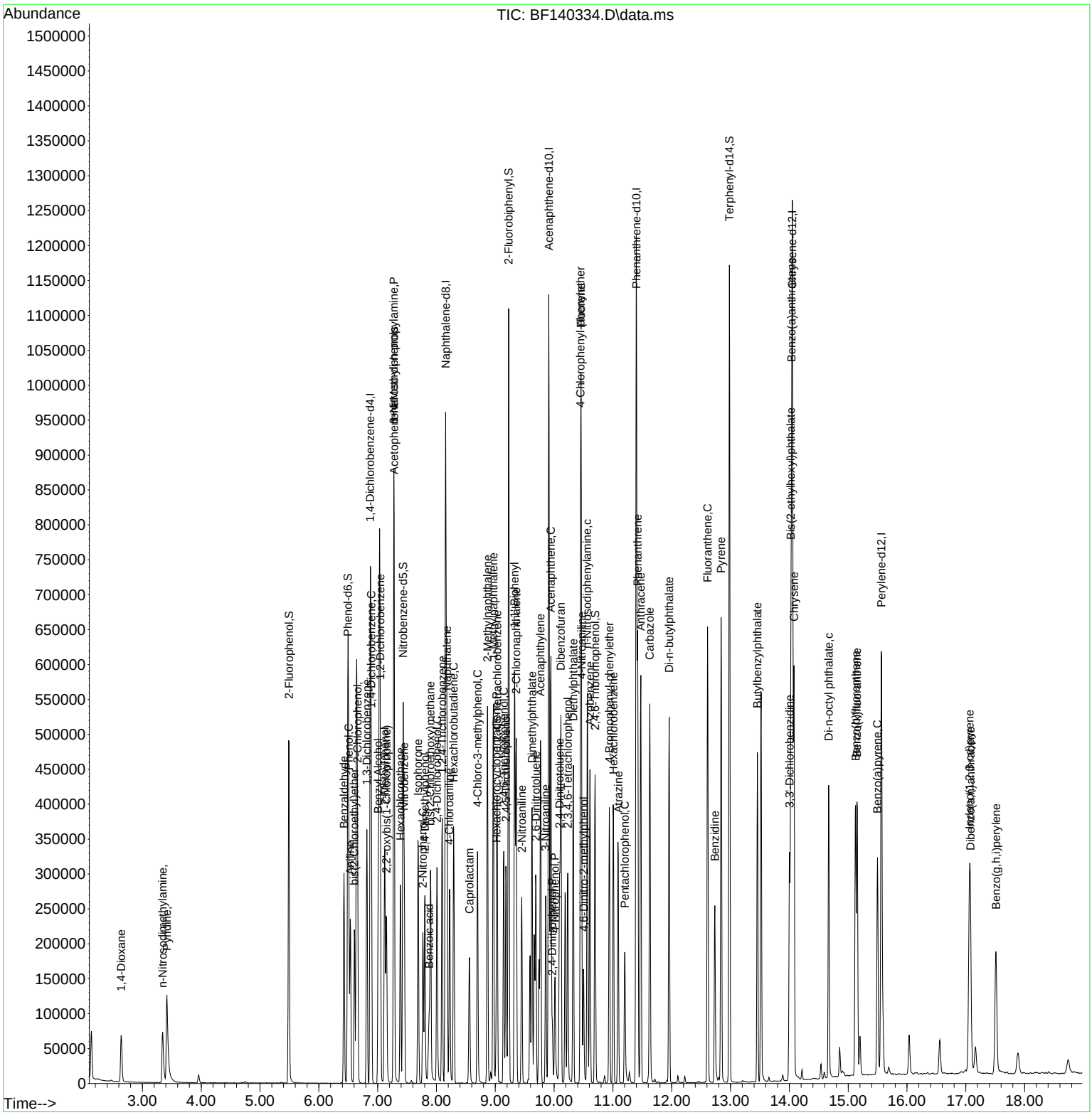
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140334.D
Acq On : 13 Nov 2024 09:53
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

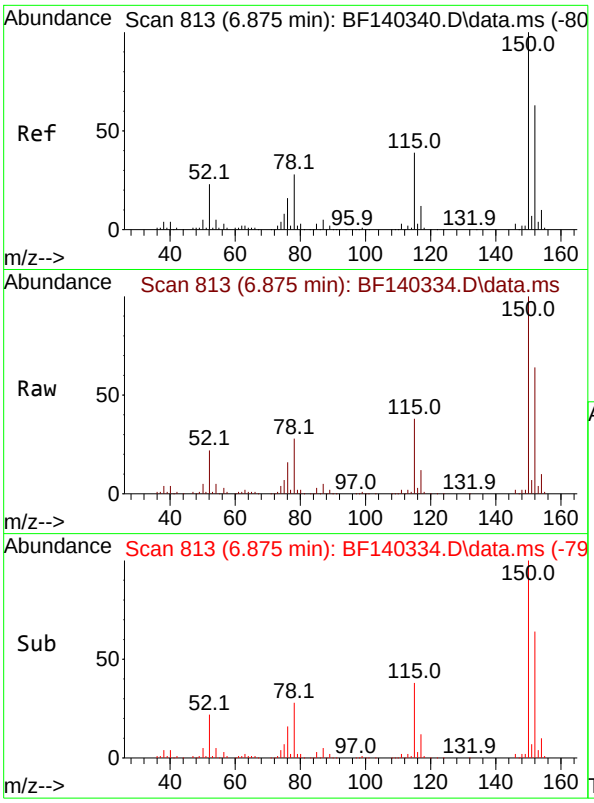
Quant Time: Nov 13 14:23:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

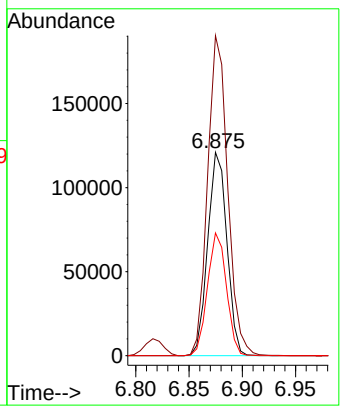




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:152 Resp: 15175

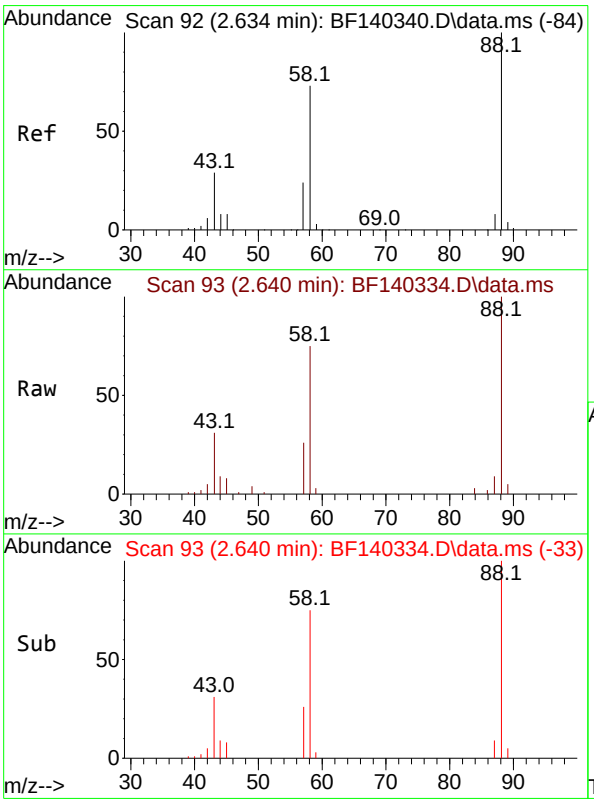
Ion	Ratio	Lower	Upper
152	100		
150	157.4	127.4	191.0
115	60.4	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

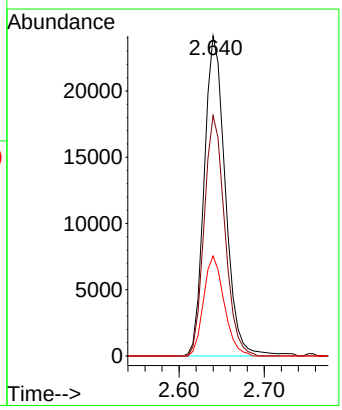
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

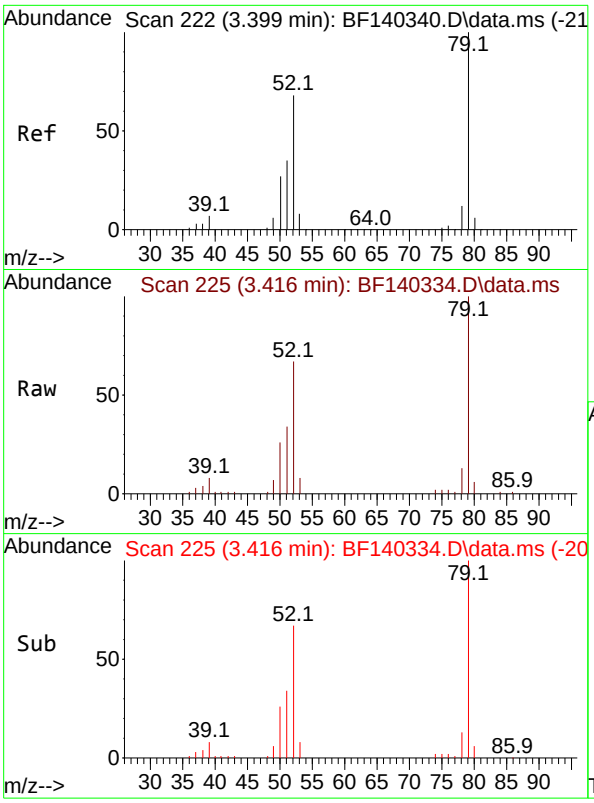


#2
1,4-Dioxane
Concen: 10.458 ng
RT: 2.640 min Scan# 93
Delta R.T. 0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 88 Resp: 41430

Ion	Ratio	Lower	Upper
88	100		
58	73.3	59.5	89.3
43	30.5	23.4	35.2

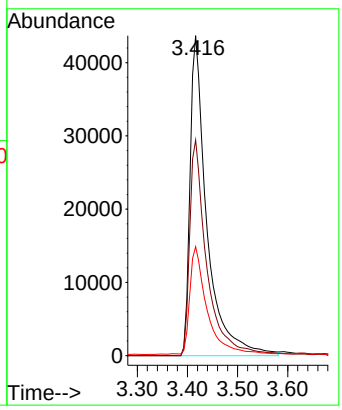




#3
Pyridine
Concen: 10.462 ng
RT: 3.416 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 79 Resp: 10188

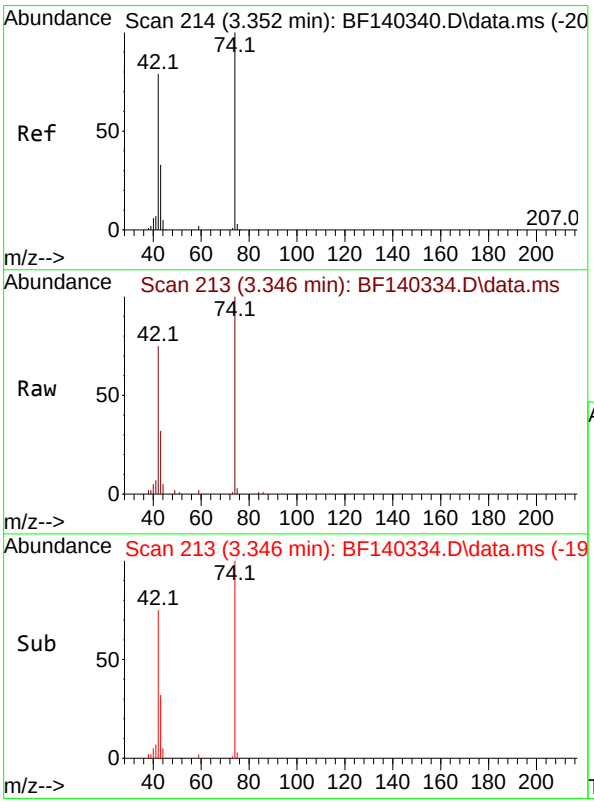
Ion	Ratio	Lower	Upper
79	100		
52	67.4	53.8	80.6
51	34.0	27.3	40.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

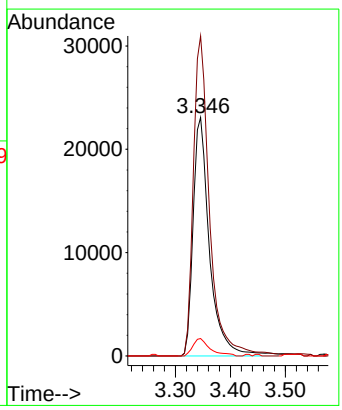
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

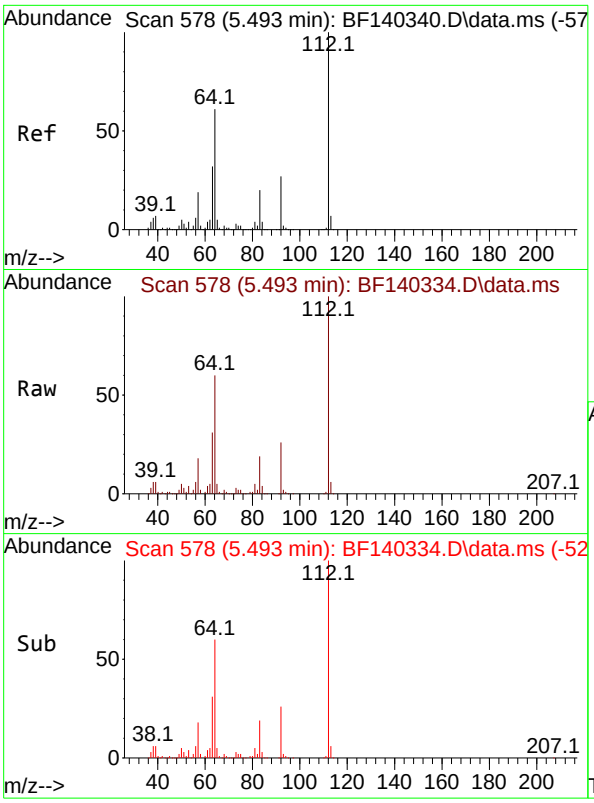


#4
n-Nitrosodimethylamine
Concen: 9.736 ng
RT: 3.346 min Scan# 213
Delta R.T. -0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 42 Resp: 47921

Ion	Ratio	Lower	Upper
42	100		
74	134.2	103.5	155.3
44	7.3	5.1	7.7





#5
2-Fluorophenol
Concen: 21.470 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

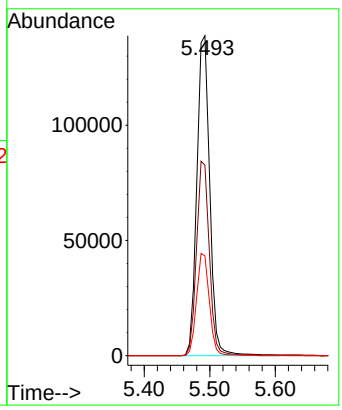
Tgt Ion:112 Resp: 19083

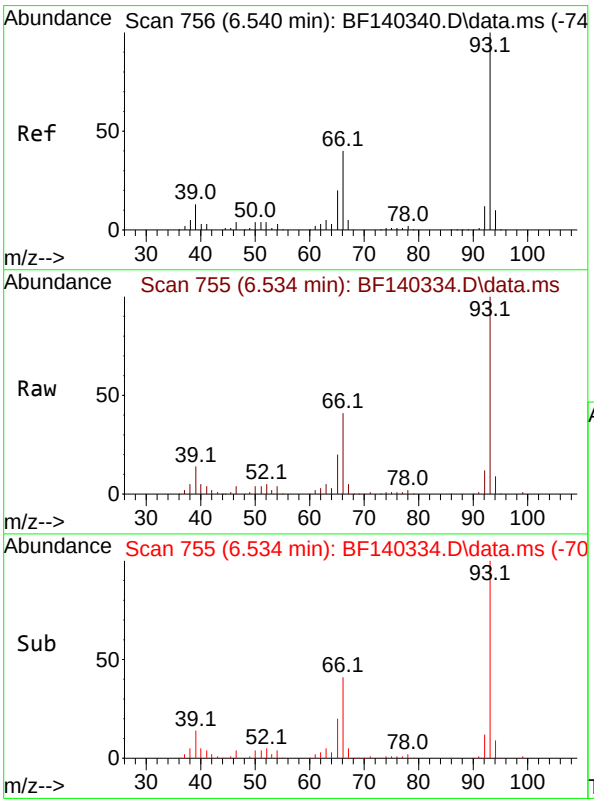
Ion	Ratio	Lower	Upper
112	100		
64	59.5	49.2	73.8
63	31.2	25.6	38.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

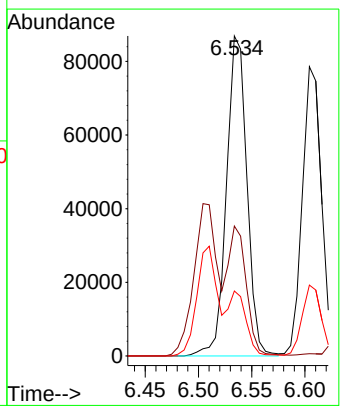


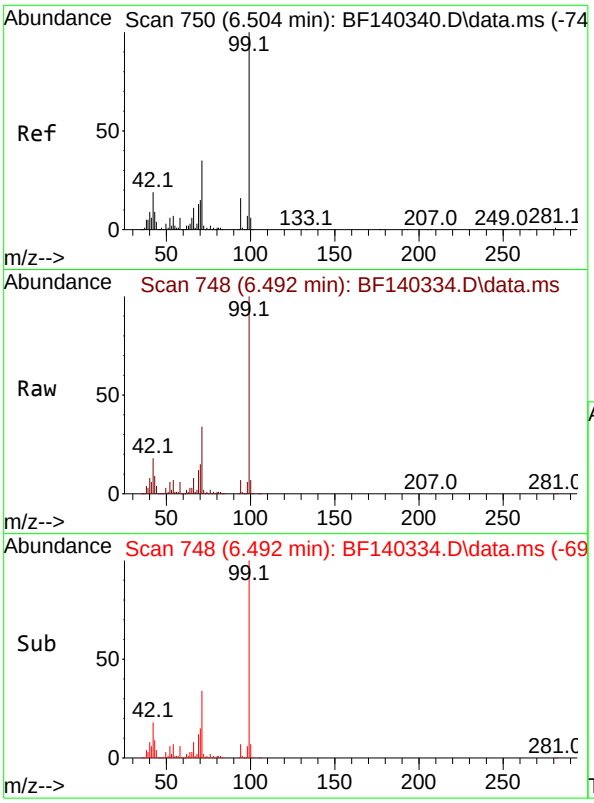


#6
Aniline
Concen: 11.059 ng
RT: 6.534 min Scan# 755
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 93 Resp: 115851

Ion	Ratio	Lower	Upper
93	100		
66	40.6	32.8	49.2
65	20.3	16.6	25.0

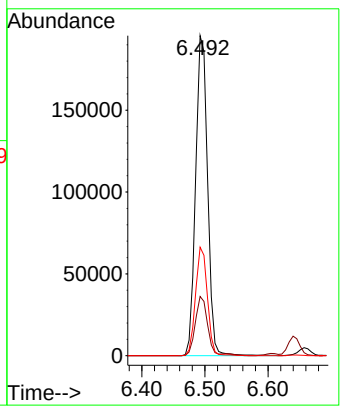




#7
Phenol-d6
Concen: 21.315 ng
RT: 6.492 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 99 Resp: 25667

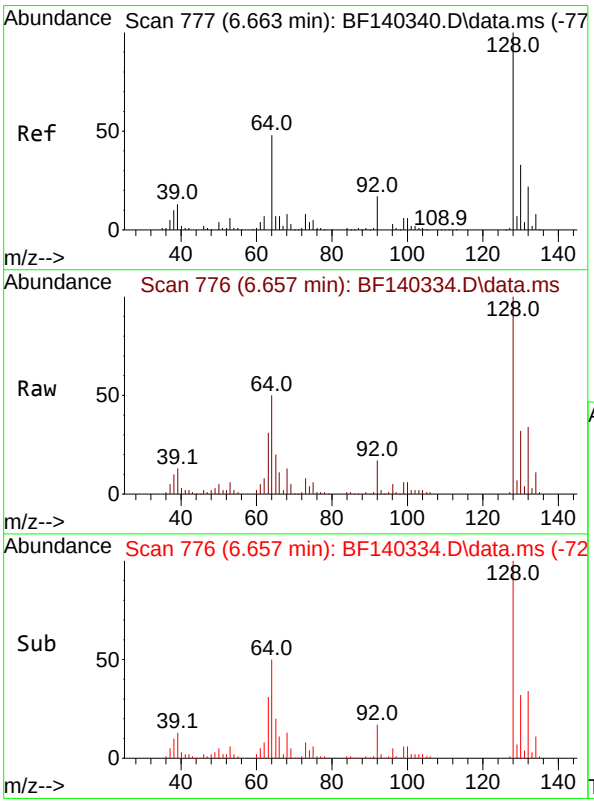
Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.1	22.7
71	33.9	27.9	41.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

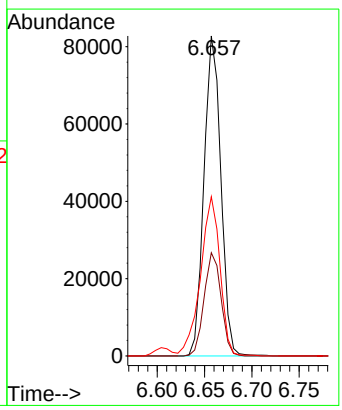
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

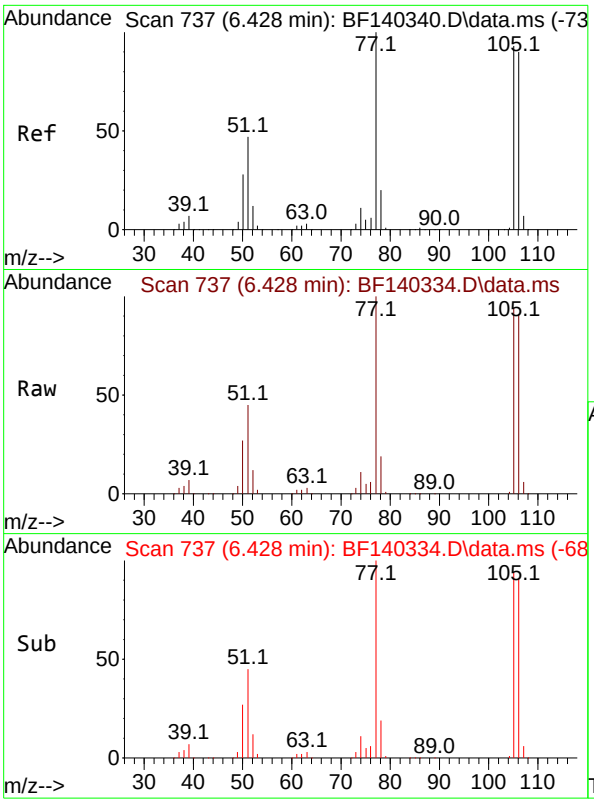


#8
2-Chlorophenol
Concen: 10.723 ng
RT: 6.657 min Scan# 776
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:128 Resp: 102376

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.2	52.2
64	49.8	30.2	70.2

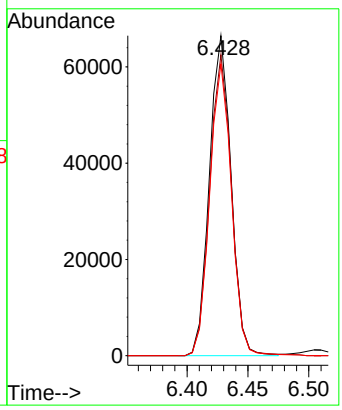




#9
Benzaldehyde
Concen: 11.431 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 77 Resp: 8249

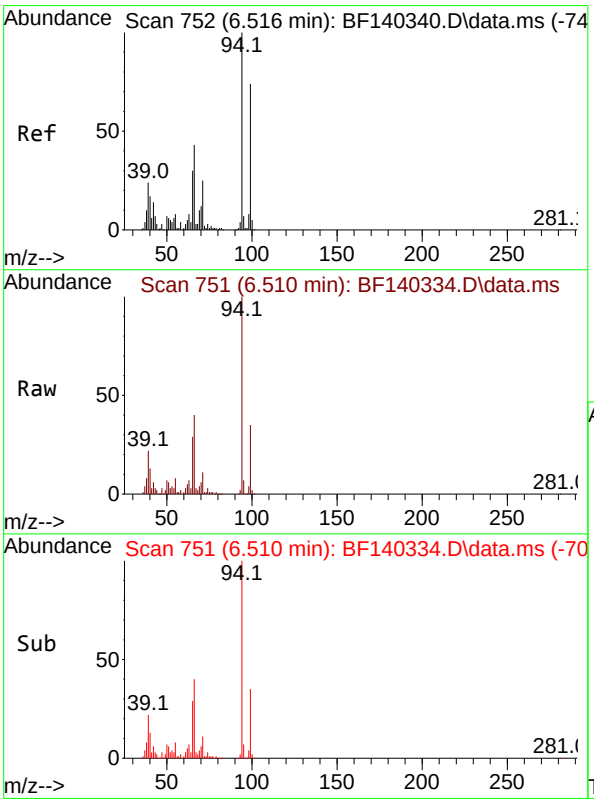
Ion	Ratio	Lower	Upper
77	100		
105	94.1	74.4	114.4
106	91.2	69.9	109.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

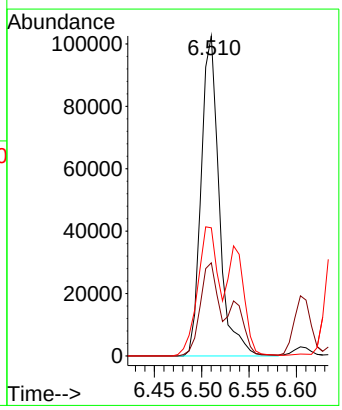
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

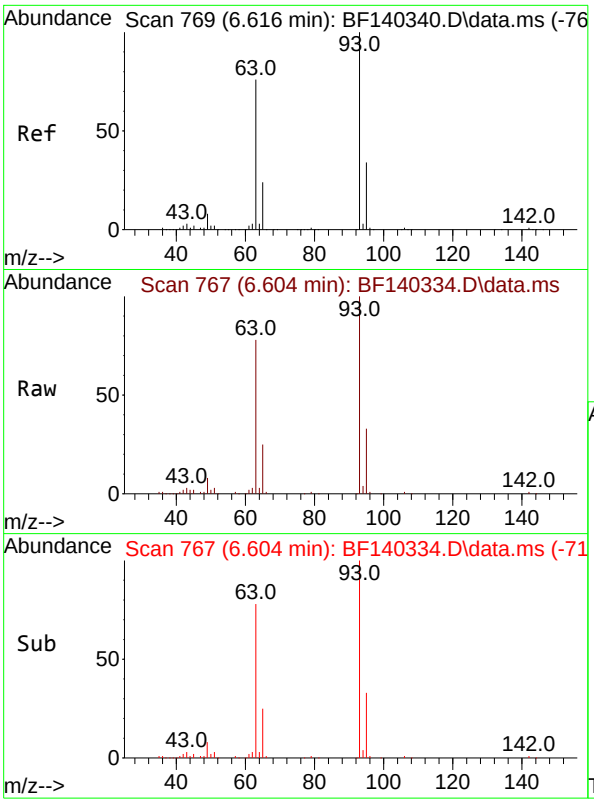


#10
Phenol
Concen: 10.713 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 94 Resp: 136055

Ion	Ratio	Lower	Upper
94	100		
65	29.1	10.4	50.4
66	40.1	22.9	62.9

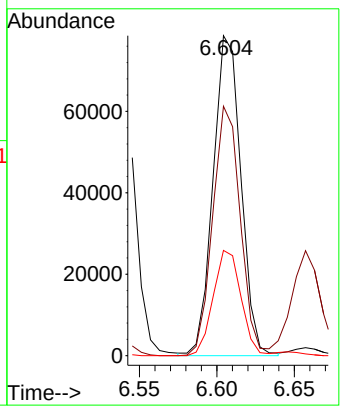




#11
bis(2-Chloroethyl)ether
Concen: 10.205 ng
RT: 6.604 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 93 Resp: 9819

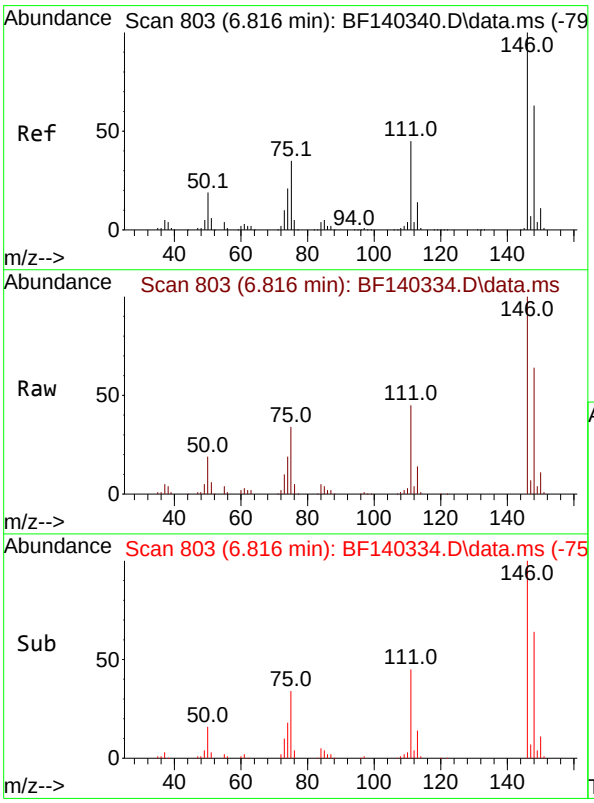
Ion	Ratio	Lower	Upper
93	100		
63	78.0	54.0	94.0
95	32.9	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

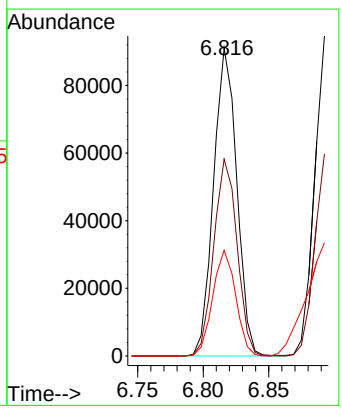
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

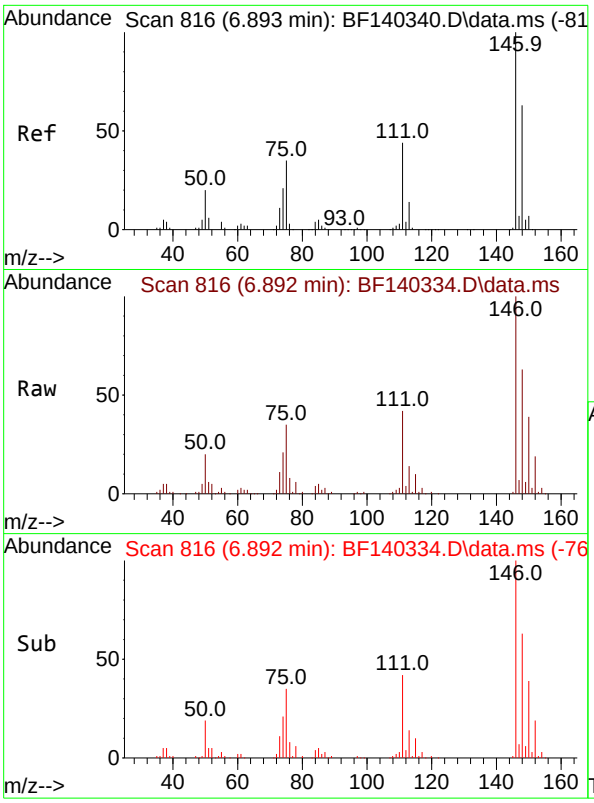


#12
1,3-Dichlorobenzene
Concen: 10.626 ng
RT: 6.816 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:146 Resp: 111939

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.7	76.1
75	34.3	26.4	39.6

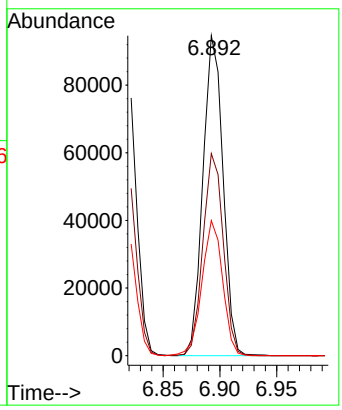




#13
1,4-Dichlorobenzene
Concen: 10.897 ng
RT: 6.892 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:146 Resp: 11639

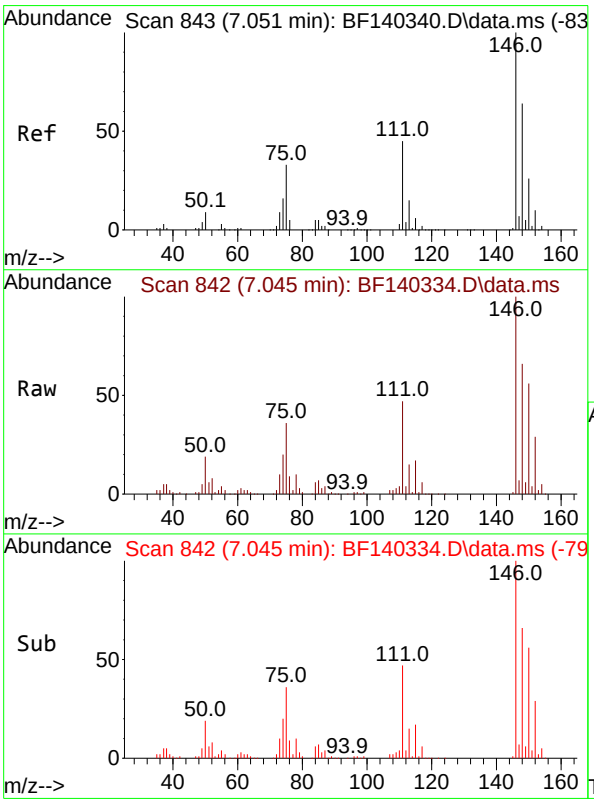
Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.8	76.2
111	42.2	34.2	51.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

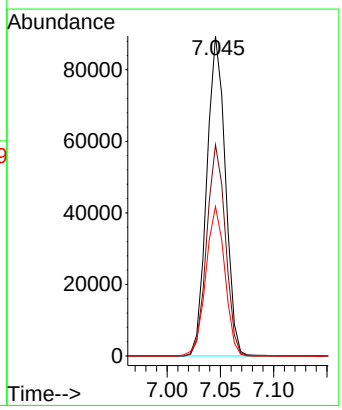
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

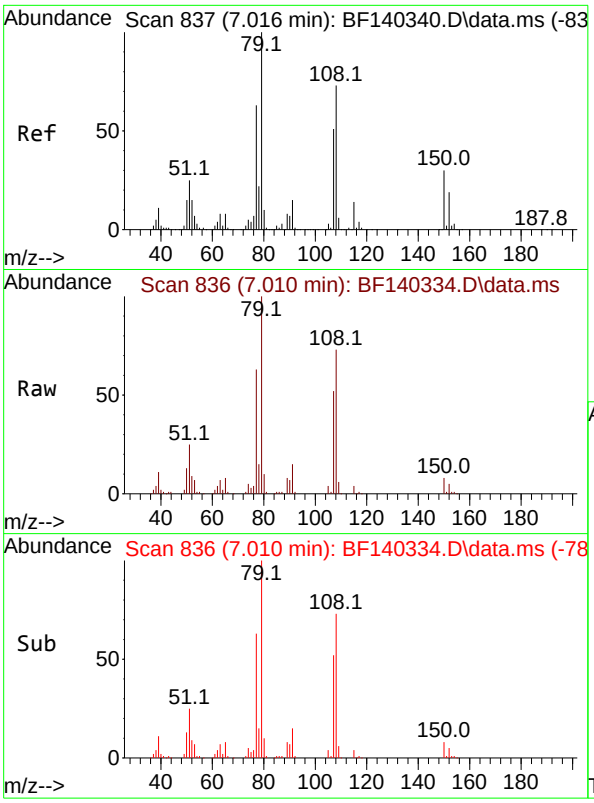


#14
1,2-Dichlorobenzene
Concen: 10.937 ng
RT: 7.045 min Scan# 842
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:146 Resp: 108453

Ion	Ratio	Lower	Upper
146	100		
148	66.0	51.2	76.8
111	46.7	36.5	54.7





#15
Benzyl Alcohol
Concen: 10.431 ng
RT: 7.010 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

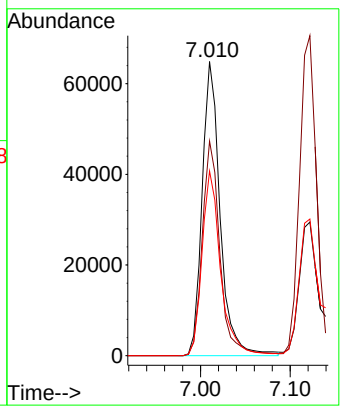
Tgt Ion: 79 Resp: 9050

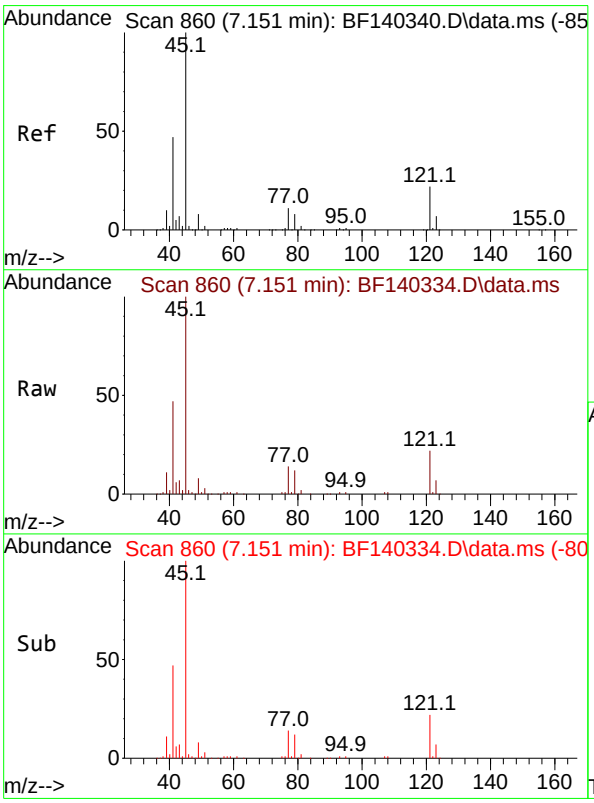
Ion	Ratio	Lower	Upper
79	100		
108	73.0	57.8	86.6
77	62.8	49.8	74.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

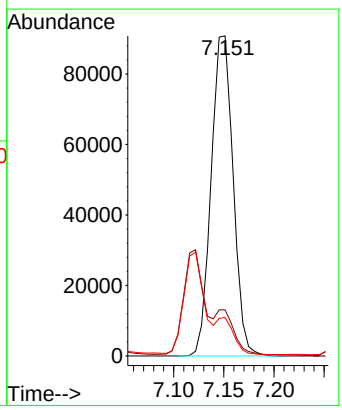


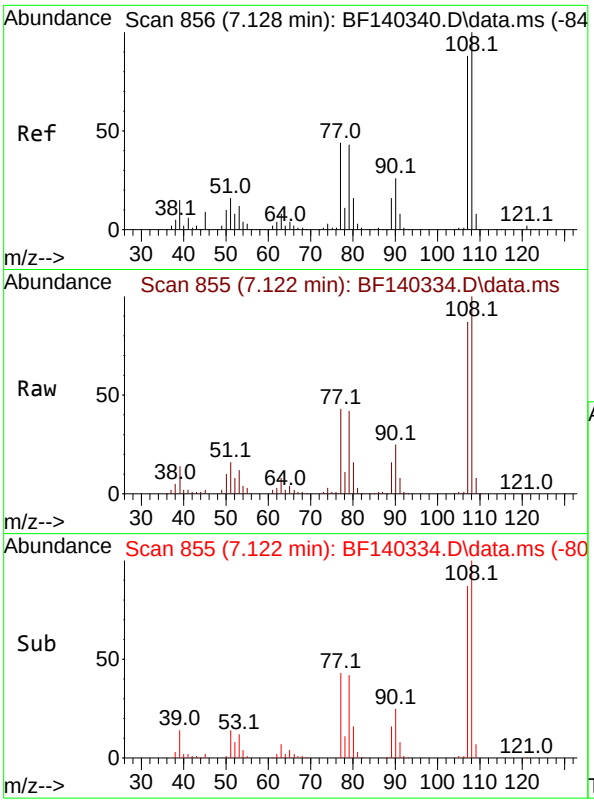


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.425 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 45 Resp: 138565

Ion	Ratio	Lower	Upper
45	100		
77	14.4	0.0	34.8
79	12.0	0.0	31.4

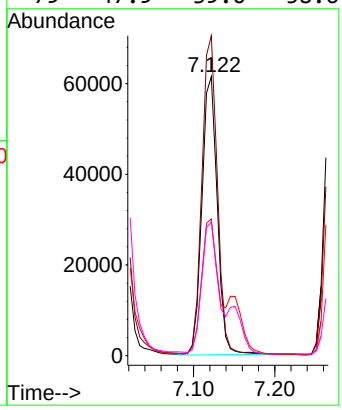




#17
2-Methylphenol
Concen: 10.258 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:107 Resp: 8056

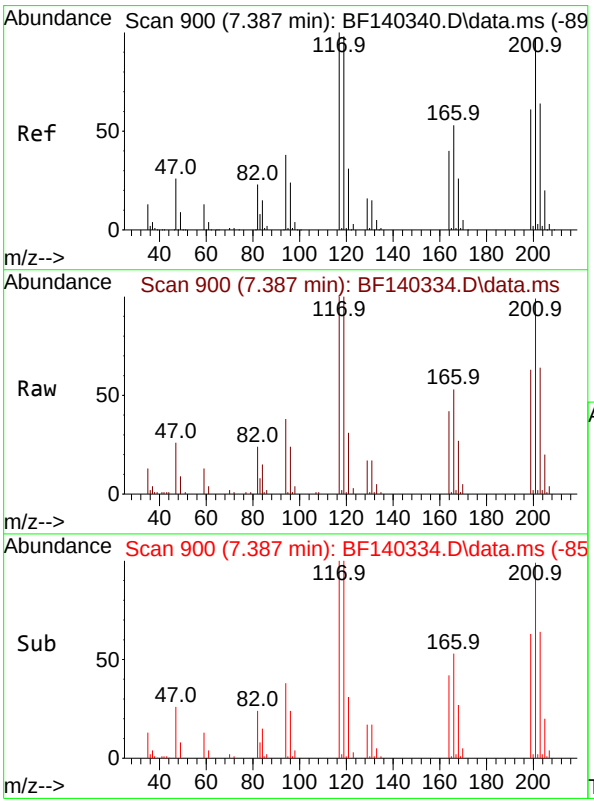
Ion	Ratio	Lower	Upper
107	100		
108	114.7	91.9	137.9
77	49.0	39.7	59.5
79	47.9	39.0	58.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

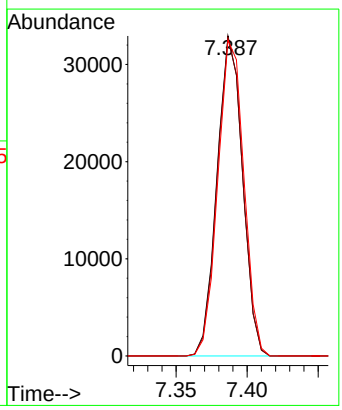
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

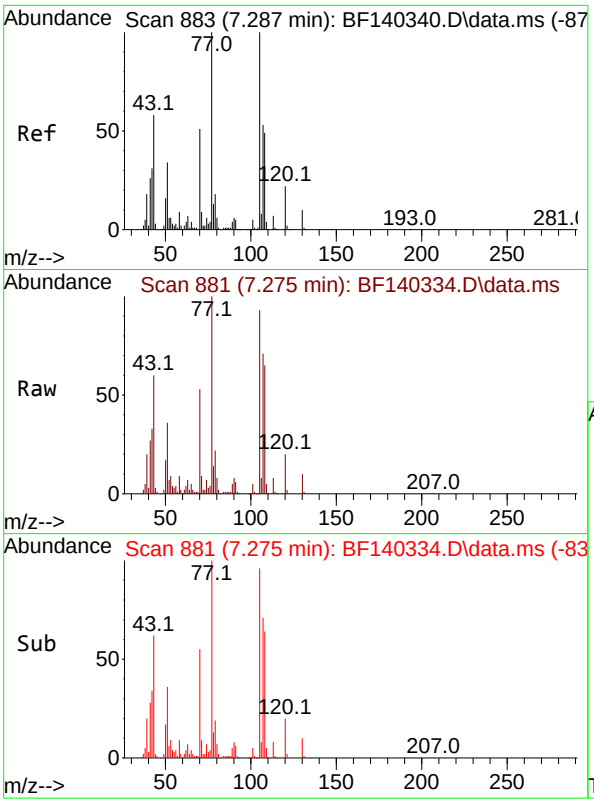


#18
Hexachloroethane
Concen: 10.431 ng
RT: 7.387 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:117 Resp: 41189

Ion	Ratio	Lower	Upper
117	100		
119	99.6	76.9	115.3
201	98.7	80.2	120.4

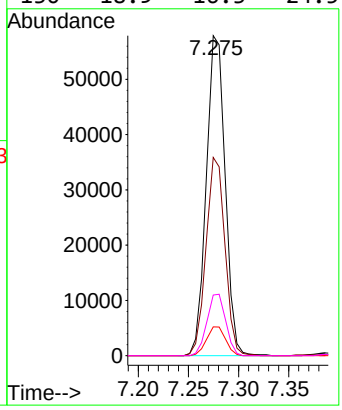




#19
n-Nitroso-di-n-propylamine
Concen: 10.460 ng
RT: 7.275 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 70 Resp: 7607

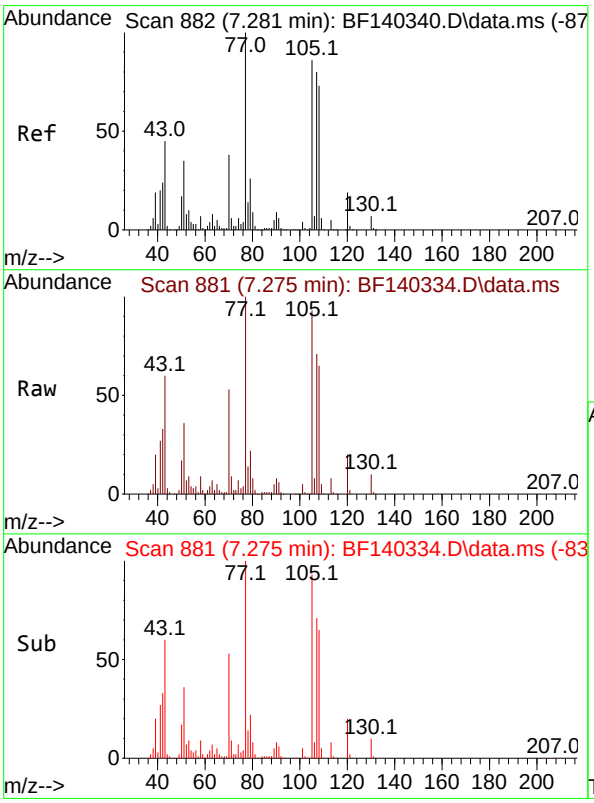
Ion	Ratio	Lower	Upper
70	100		
42	62.0	46.8	70.2
101	9.0	7.5	11.3
130	18.9	16.3	24.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

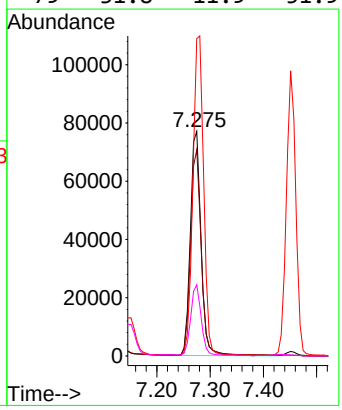
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

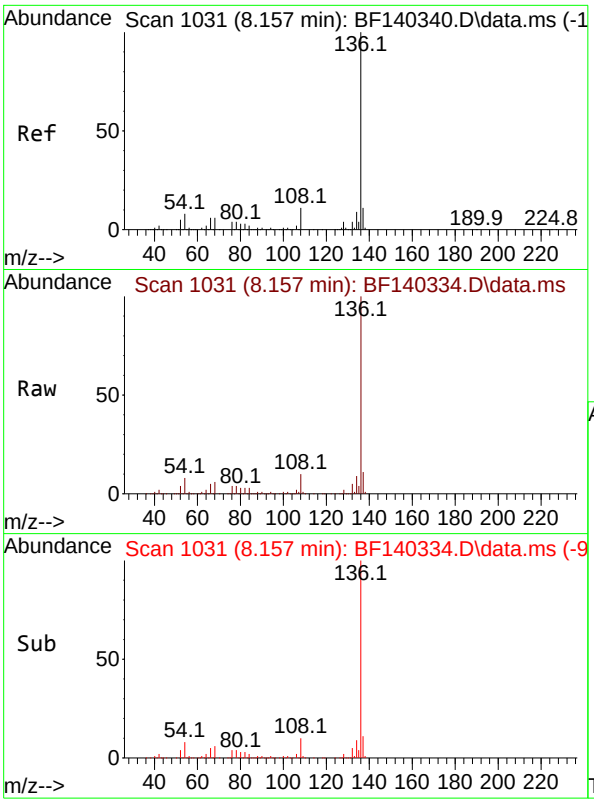


#20
3+4-Methylphenols
Concen: 11.022 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:107 Resp: 108265

Ion	Ratio	Lower	Upper
107	100		
108	91.9	71.4	111.4
77	141.5	97.0	137.0#
79	31.8	11.9	51.9

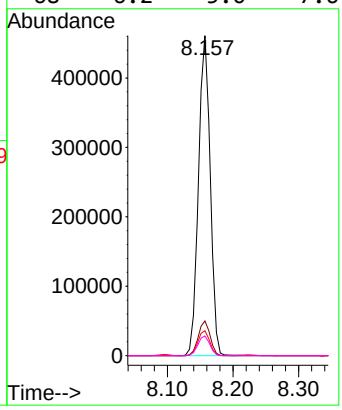




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:136 Resp: 57672

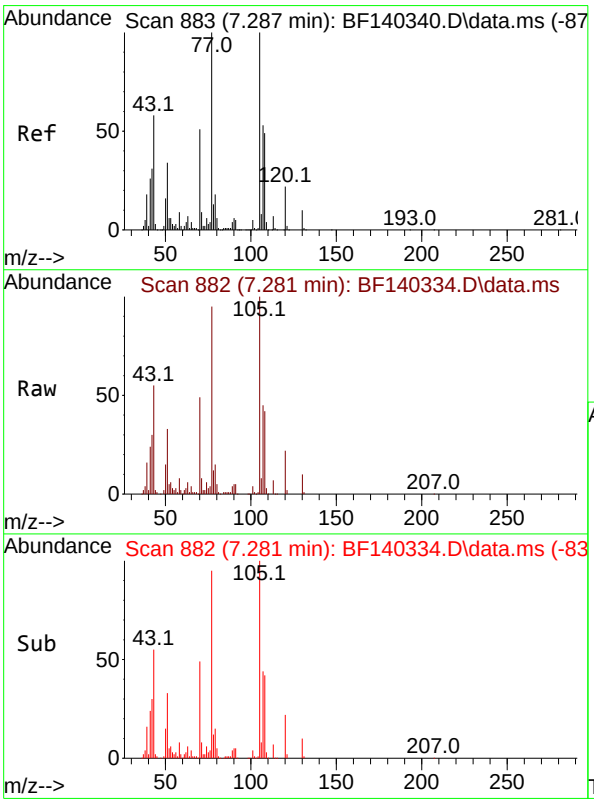
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	7.8	6.5	9.7
68	6.2	5.0	7.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

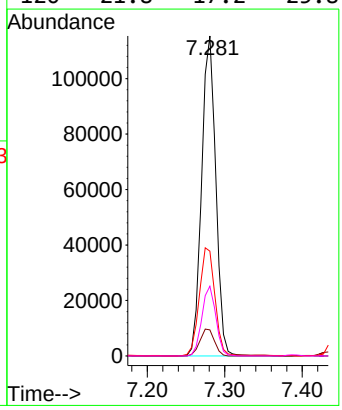
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

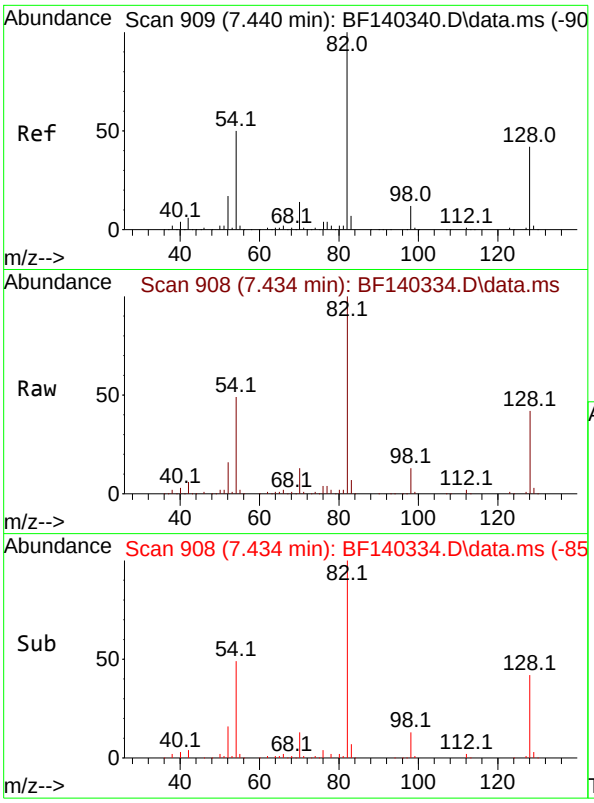


#22
Acetophenone
Concen: 10.925 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:105 Resp: 146536

Ion	Ratio	Lower	Upper
105	100		
71	8.2	6.9	10.3
51	32.8	28.6	43.0
120	21.8	17.2	25.8

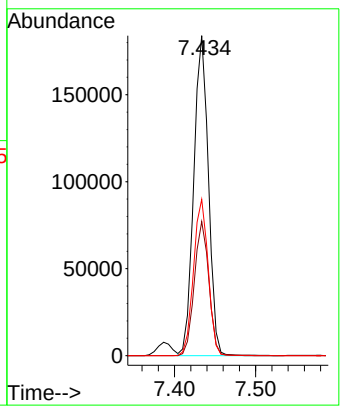




#23
Nitrobenzene-d5
Concen: 20.872 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 82 Resp: 23103

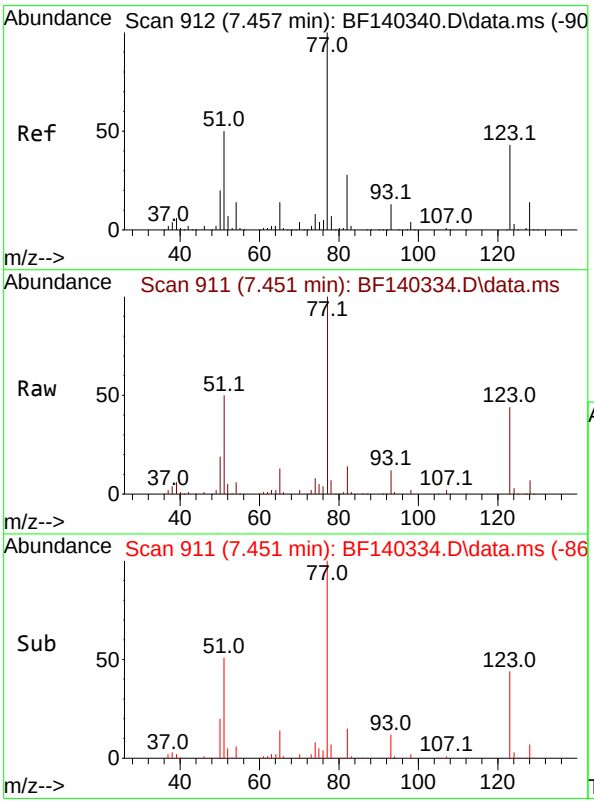
Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.3	49.9
54	48.9	39.8	59.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

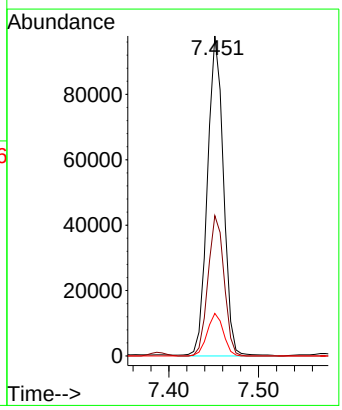
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

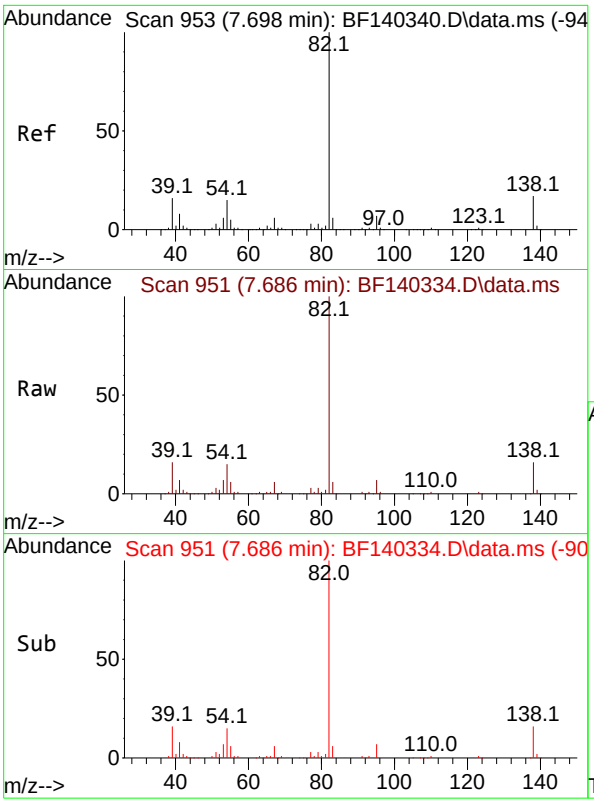


#24
Nitrobenzene
Concen: 10.534 ng
RT: 7.451 min Scan# 911
Delta R.T. -0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 77 Resp: 121397

Ion	Ratio	Lower	Upper
77	100		
123	43.8	35.4	53.0
65	13.3	11.1	16.7

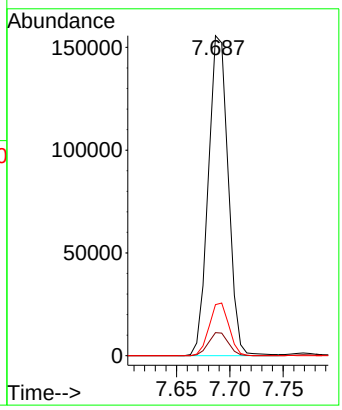




#25
Isophorone
Concen: 10.313 ng
RT: 7.686 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 82 Resp: 20230

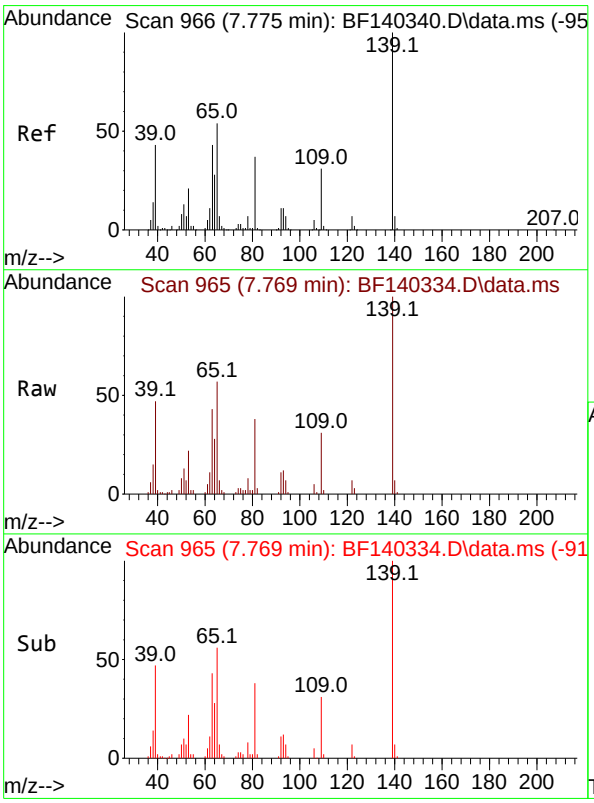
Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.9	8.9
138	16.0	13.4	20.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

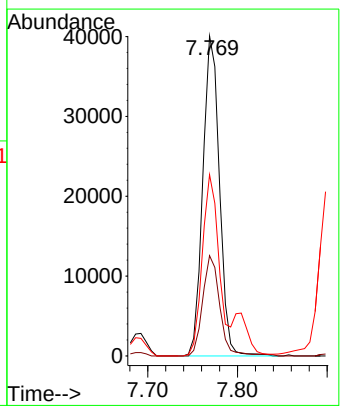
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

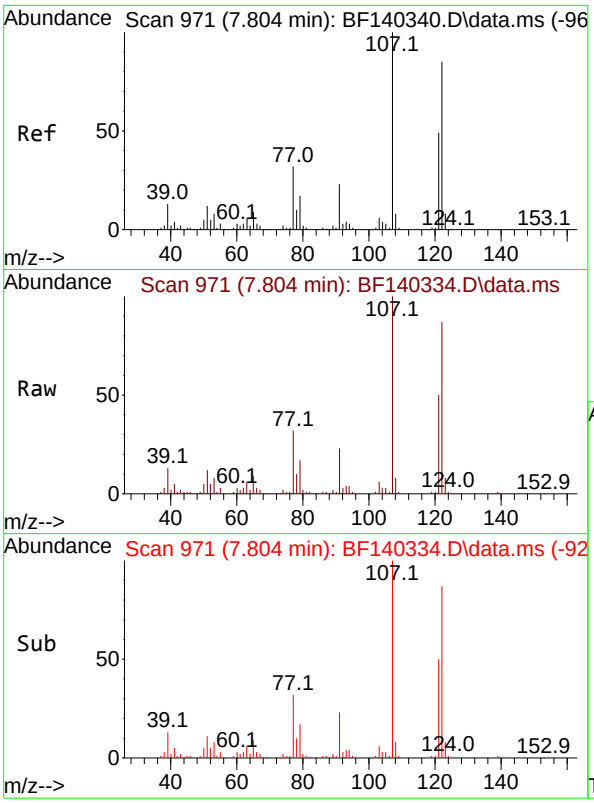


#26
2-Nitrophenol
Concen: 10.079 ng
RT: 7.769 min Scan# 965
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:139 Resp: 51547

Ion	Ratio	Lower	Upper
139	100		
109	31.4	24.4	36.6
65	56.6	42.8	64.2

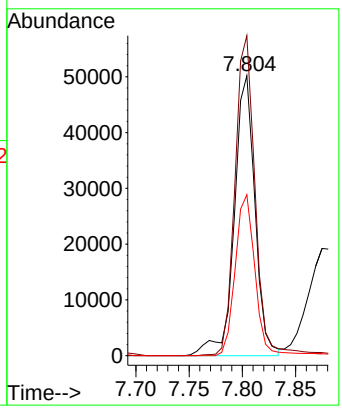




#27
2,4-Dimethylphenol
Concen: 10.396 ng
RT: 7.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:122 Resp: 6806

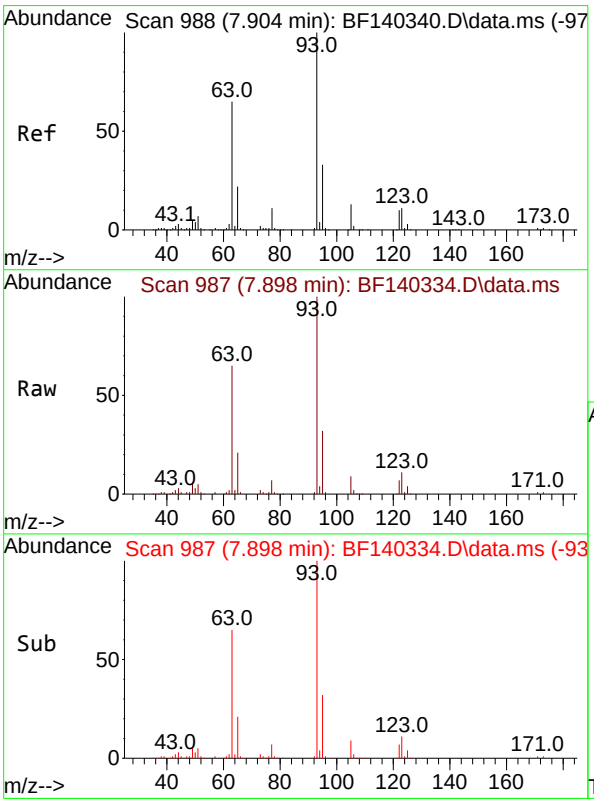
Ion	Ratio	Lower	Upper
122	100		
107	114.3	91.3	136.9
121	57.5	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

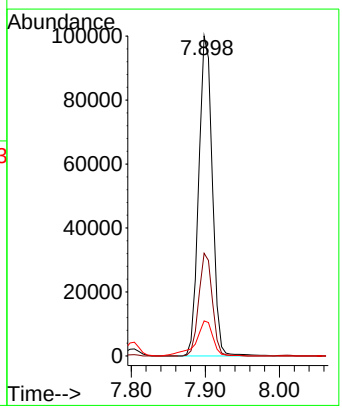
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

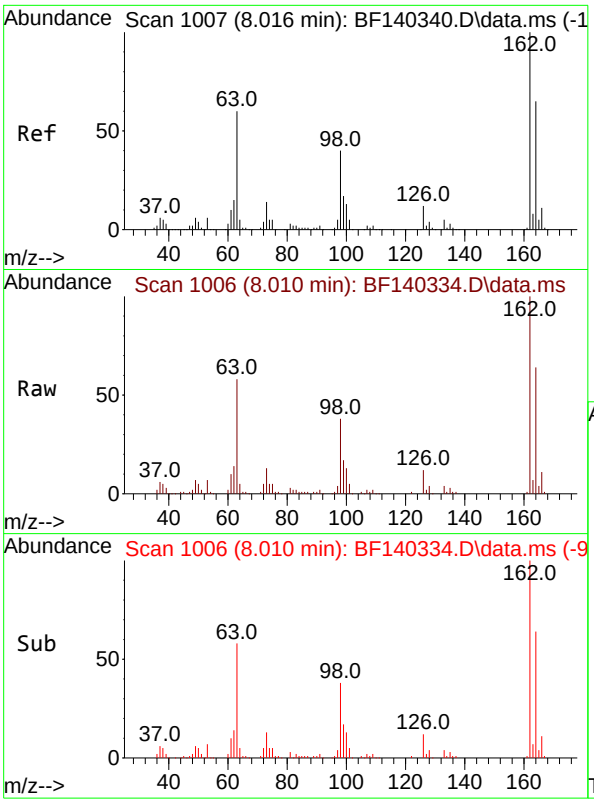


#28
bis(2-Chloroethoxy)methane
Concen: 10.594 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 93 Resp: 127440

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.9	38.9
123	11.0	9.2	13.8

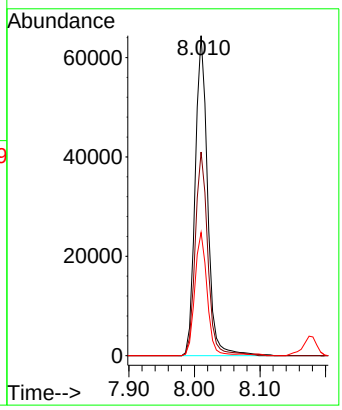




#29
2,4-Dichlorophenol
Concen: 10.540 ng
RT: 8.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:162 Resp: 8529

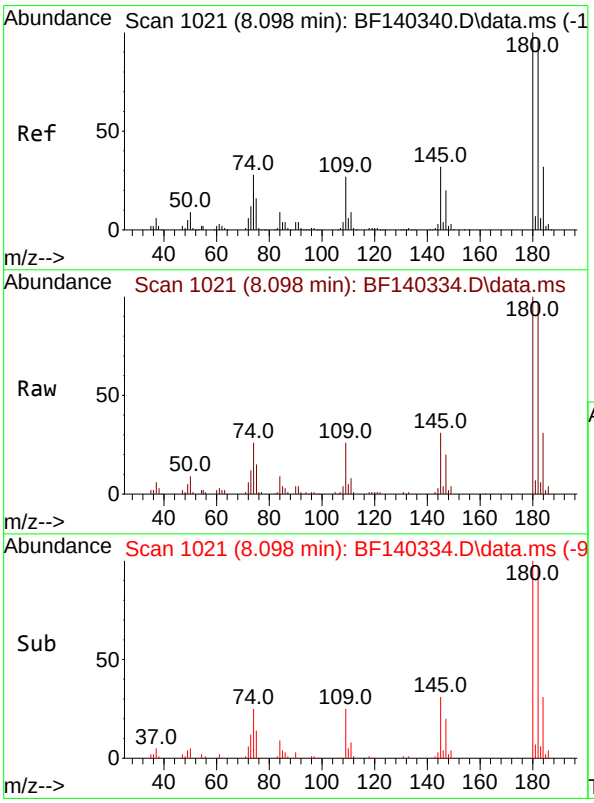
Ion	Ratio	Lower	Upper
162	100		
164	63.6	45.4	85.4
98	38.5	19.9	59.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

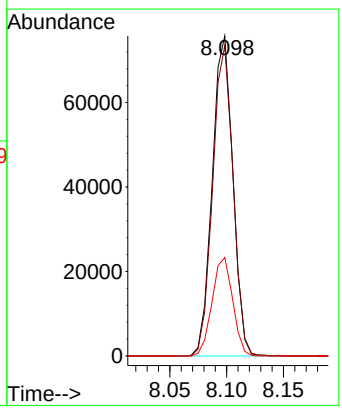
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

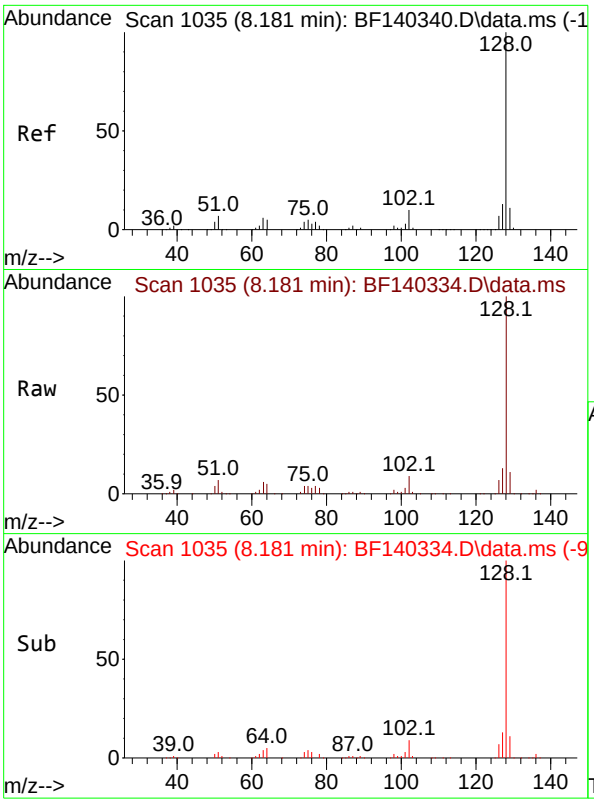


#30
1,2,4-Trichlorobenzene
Concen: 10.599 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:180 Resp: 95485

Ion	Ratio	Lower	Upper
180	100		
182	96.9	76.5	114.7
145	30.8	25.3	37.9

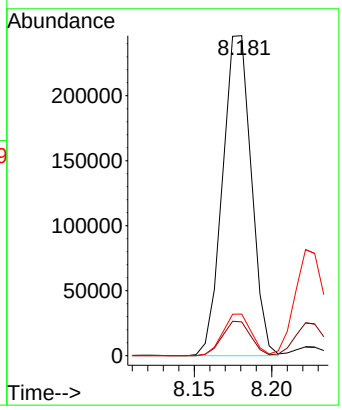




#31
Naphthalene
Concen: 10.887 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:128 Resp: 31852

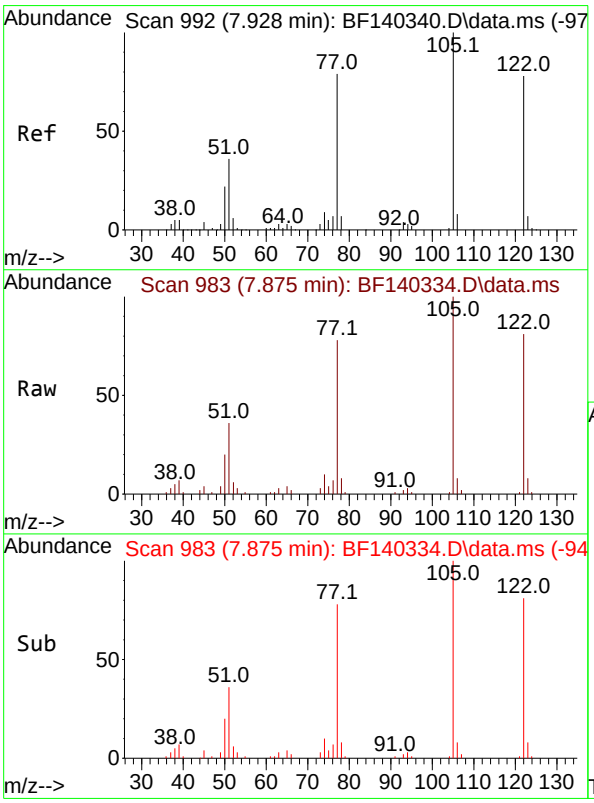
Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.9	13.3
127	13.0	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

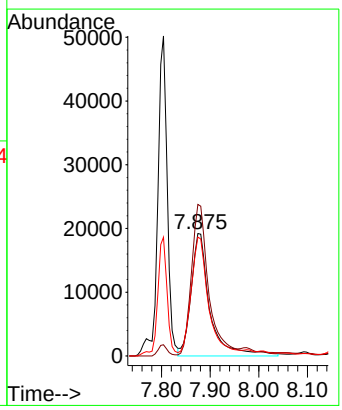
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

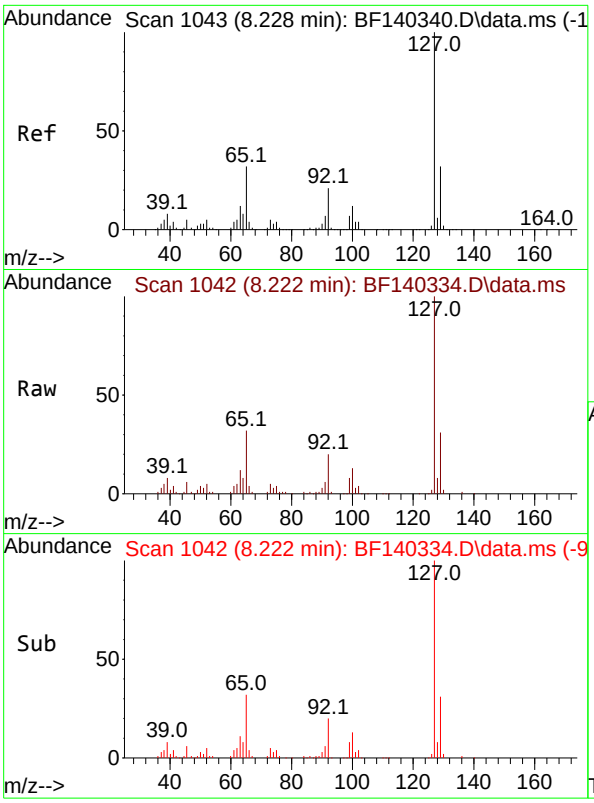


#32
Benzoic acid
Concen: 8.934 ng m
RT: 7.875 min Scan# 983
Delta R.T. -0.053 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:122 Resp: 51387

Ion	Ratio	Lower	Upper
122	100		
105	123.8	100.9	140.9
77	97.1	76.0	116.0

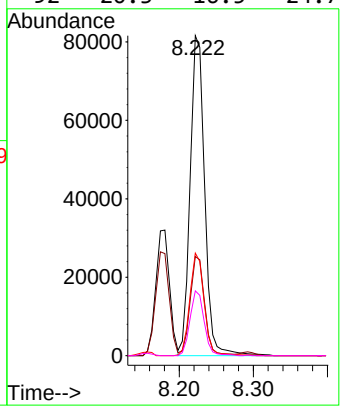




#33
4-Chloroaniline
Concen: 10.936 ng
RT: 8.222 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:127 Resp: 11126

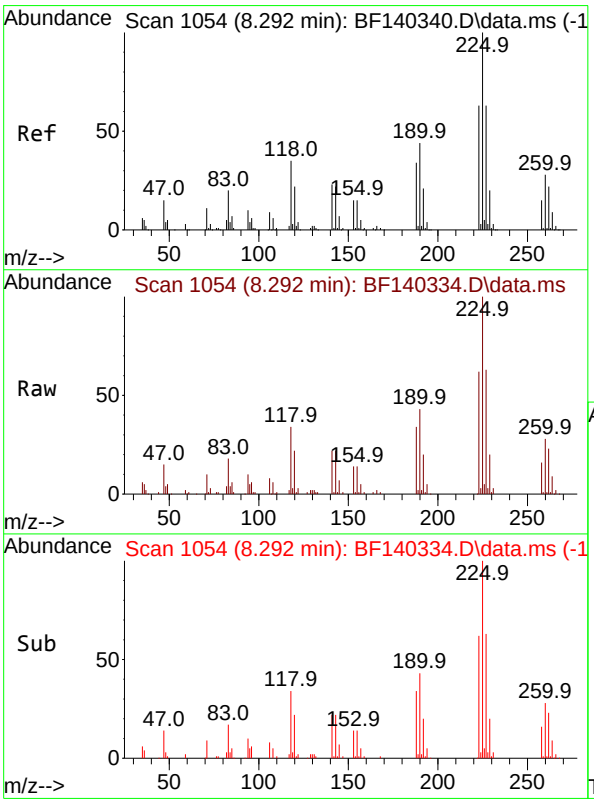
Ion	Ratio	Lower	Upper
127	100		
129	31.0	26.2	39.4
65	32.1	25.8	38.6
92	20.3	16.5	24.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

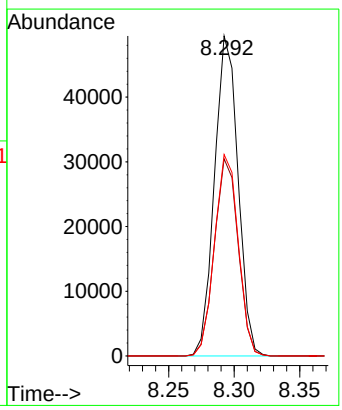
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

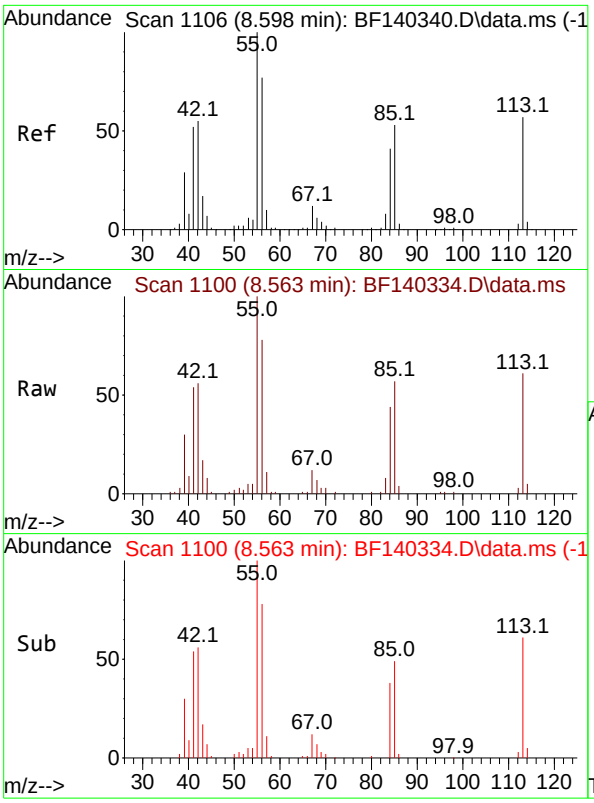


#34
Hexachlorobutadiene
Concen: 10.731 ng
RT: 8.292 min Scan# 1054
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:225 Resp: 61596

Ion	Ratio	Lower	Upper
225	100		
223	61.6	50.1	75.1
227	63.0	51.3	76.9

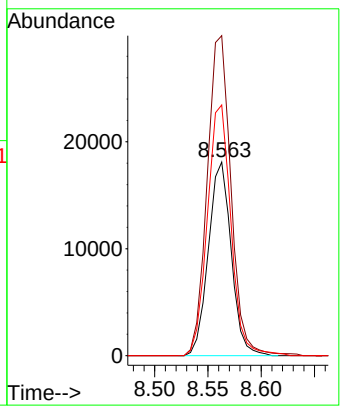




#35
Caprolactam
Concen: 9.902 ng
RT: 8.563 min Scan# 1
Delta R.T. -0.035 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:113 Resp: 2694

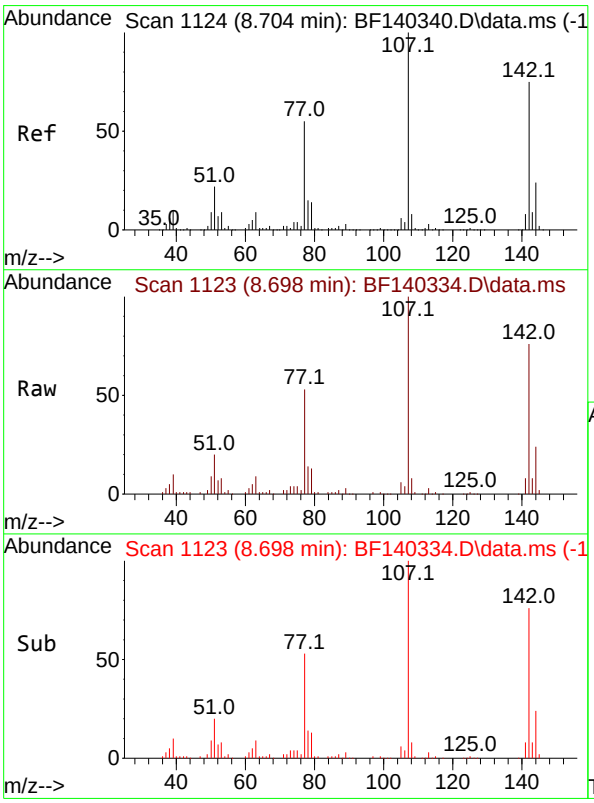
Ion	Ratio	Lower	Upper
113	100		
55	165.2	150.0	190.0
56	129.5	111.1	151.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

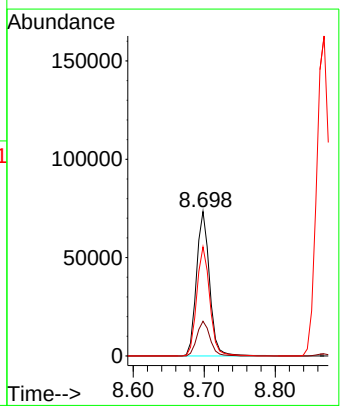
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

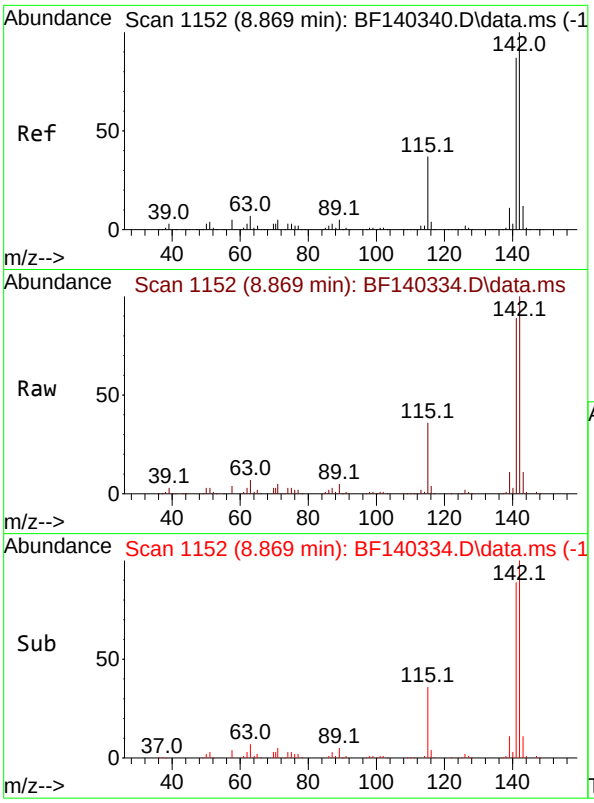


#36
4-Chloro-3-methylphenol
Concen: 10.514 ng
RT: 8.698 min Scan# 1123
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:107 Resp: 94282

Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.3	28.9
142	75.6	59.4	89.0

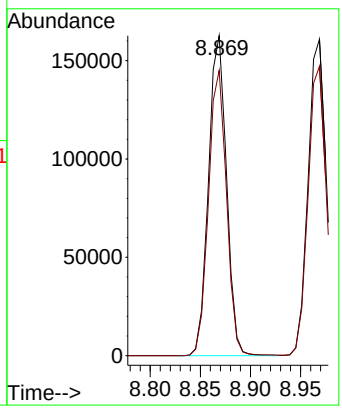




#37
2-Methylnaphthalene
Concen: 10.850 ng
RT: 8.869 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:142 Resp: 20353

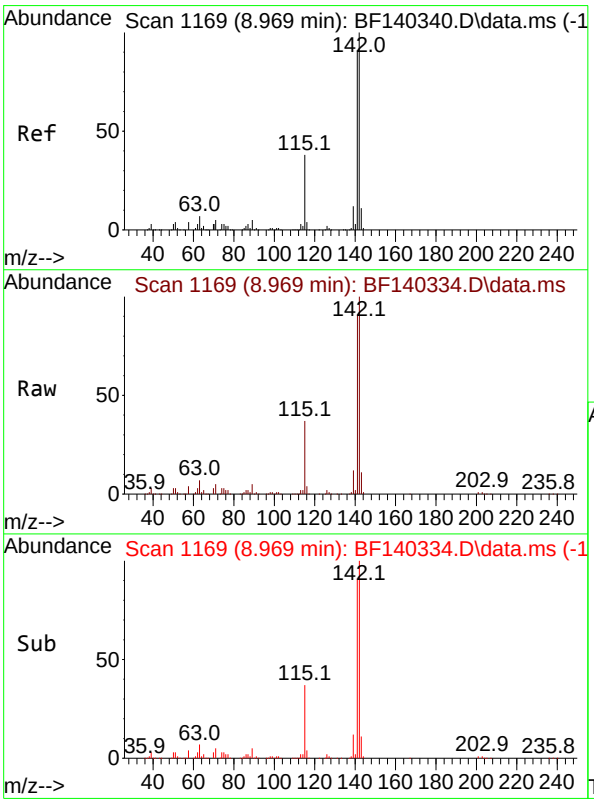
Ion	Ratio	Lower	Upper
142	100		
141	89.1	70.4	105.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

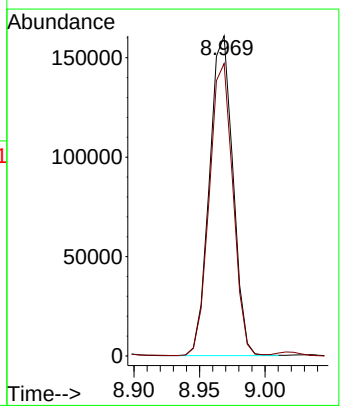
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

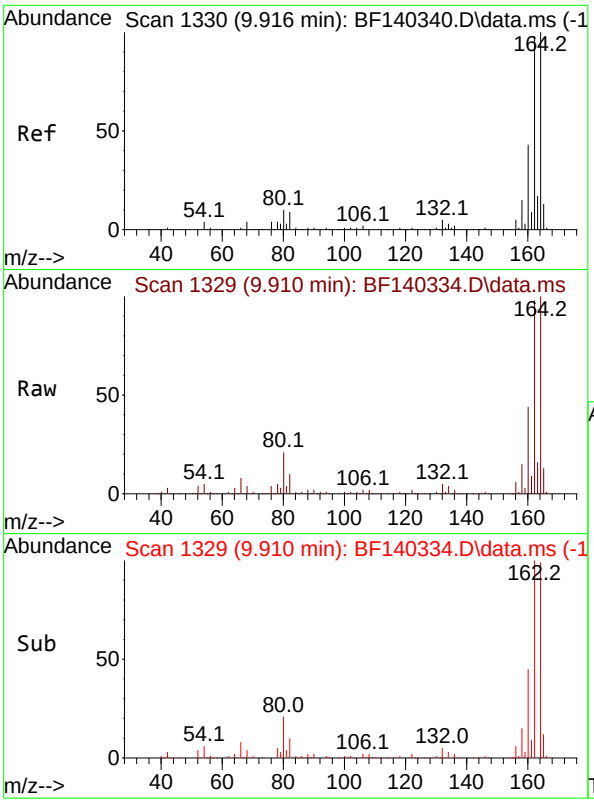


#38
1-Methylnaphthalene
Concen: 10.926 ng
RT: 8.969 min Scan# 1169
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:142 Resp: 200722

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.6	110.4

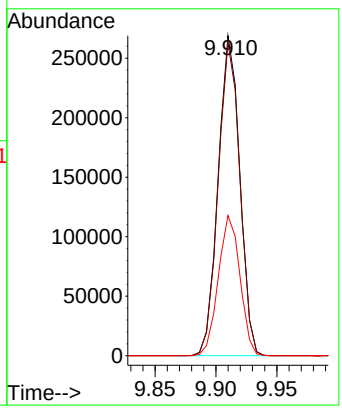




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:164 Resp: 33234

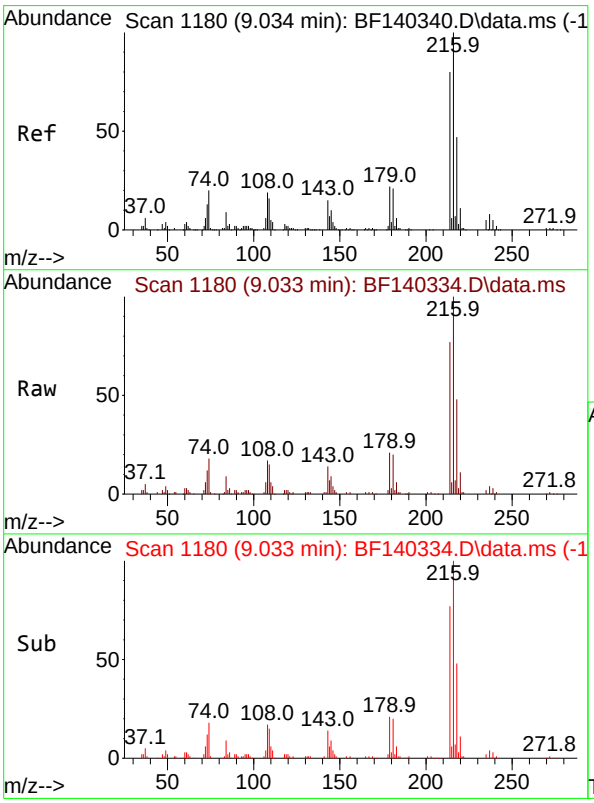
Ion	Ratio	Lower	Upper
164	100		
162	97.7	79.8	119.8
160	43.8	35.4	53.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

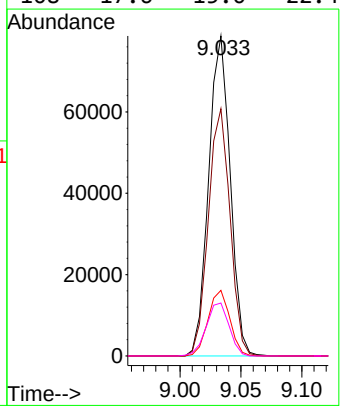
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

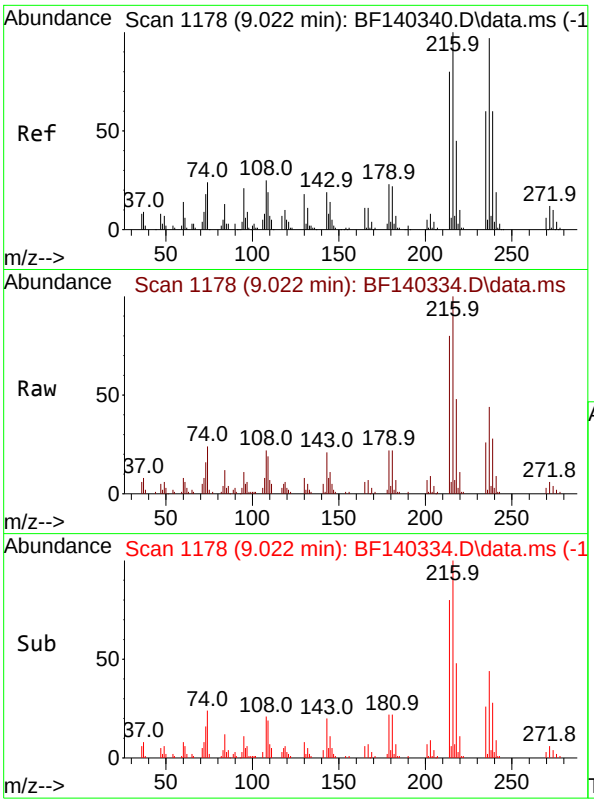


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.573 ng
RT: 9.033 min Scan# 1180
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:216 Resp: 97174

Ion	Ratio	Lower	Upper
216	100		
214	77.6	63.2	94.8
179	20.6	17.2	25.8
108	17.6	15.0	22.4





#41
Hexachlorocyclopentadiene
Concen: 7.800 ng
RT: 9.022 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

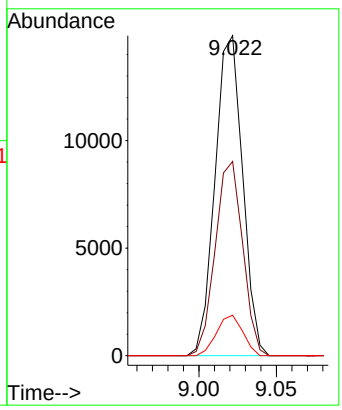
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

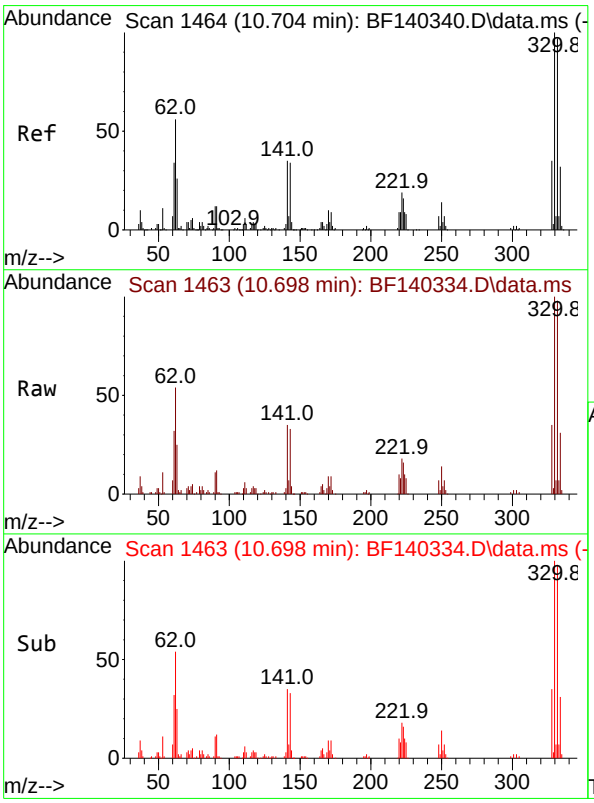
Tgt Ion:237 Resp: 1840

Ion	Ratio	Lower	Upper
237	100		
235	60.7	42.8	82.8
272	12.7	0.0	33.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

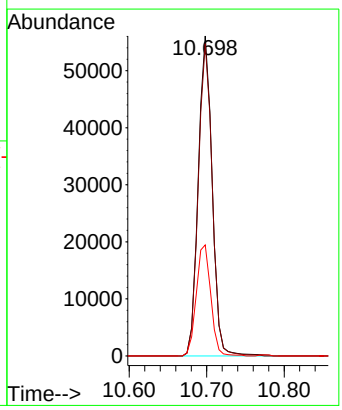


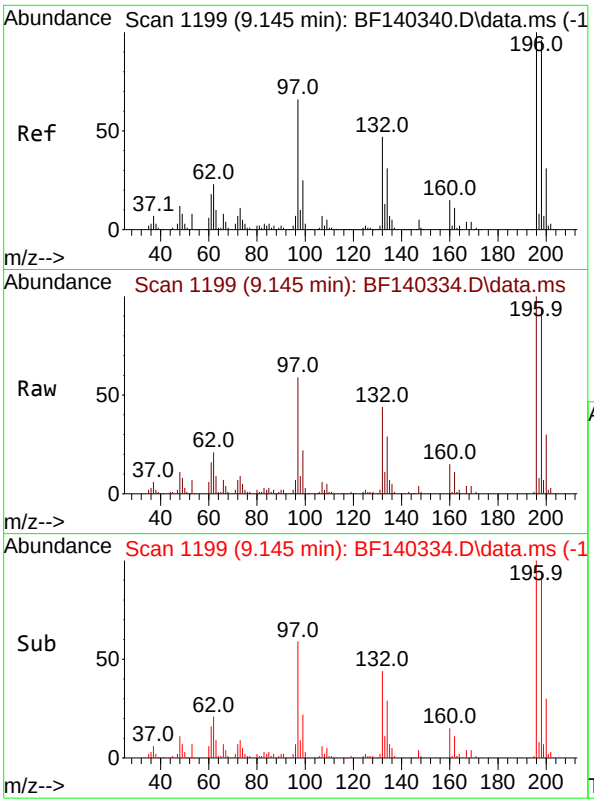


#42
2,4,6-Tribromophenol
Concen: 21.193 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:330 Resp: 70040

Ion	Ratio	Lower	Upper
330	100		
332	97.5	75.9	113.9
141	36.1	26.9	40.3

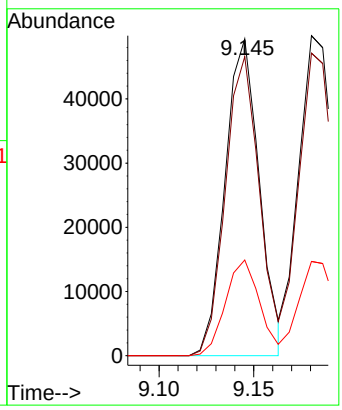




#43
2,4,6-Trichlorophenol
Concen: 10.302 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:196 Resp: 6213

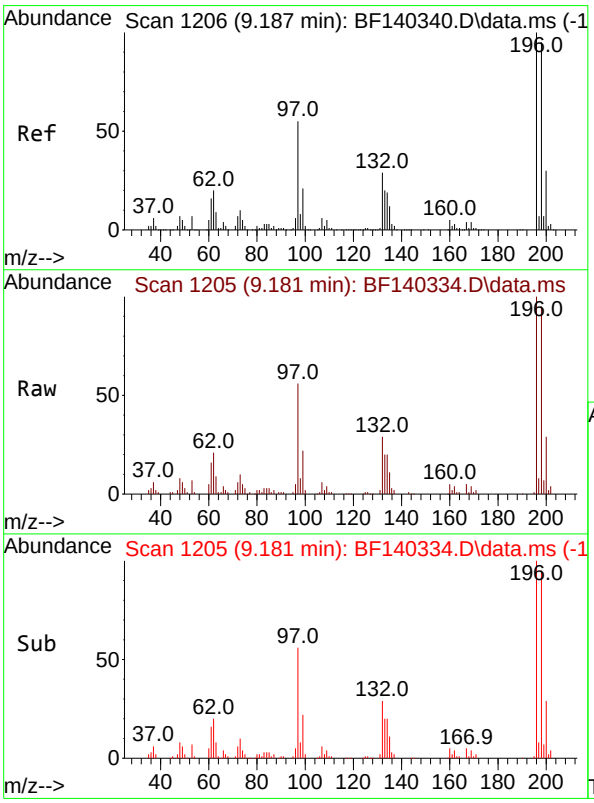
Ion	Ratio	Lower	Upper
196	100		
198	94.4	77.0	115.4
200	30.2	24.2	36.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

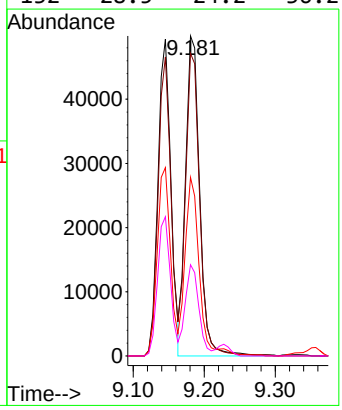
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

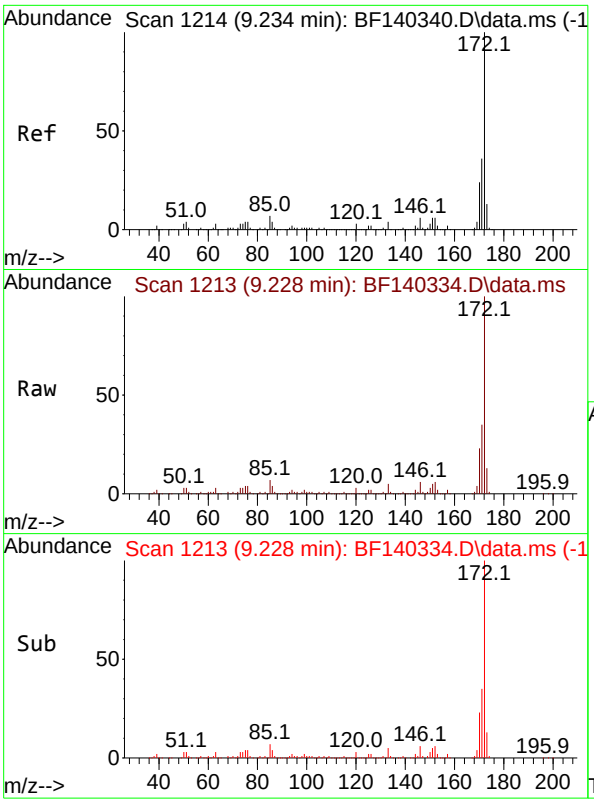


#44
2,4,5-Trichlorophenol
Concen: 10.520 ng
RT: 9.181 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:196 Resp: 69370

Ion	Ratio	Lower	Upper
196	100		
198	94.6	77.6	116.4
97	55.8	45.4	68.2
132	28.5	24.2	36.2

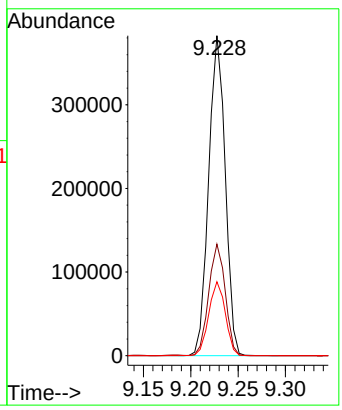




#45
2-Fluorobiphenyl
Concen: 22.441 ng
RT: 9.228 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:172 Resp: 46395

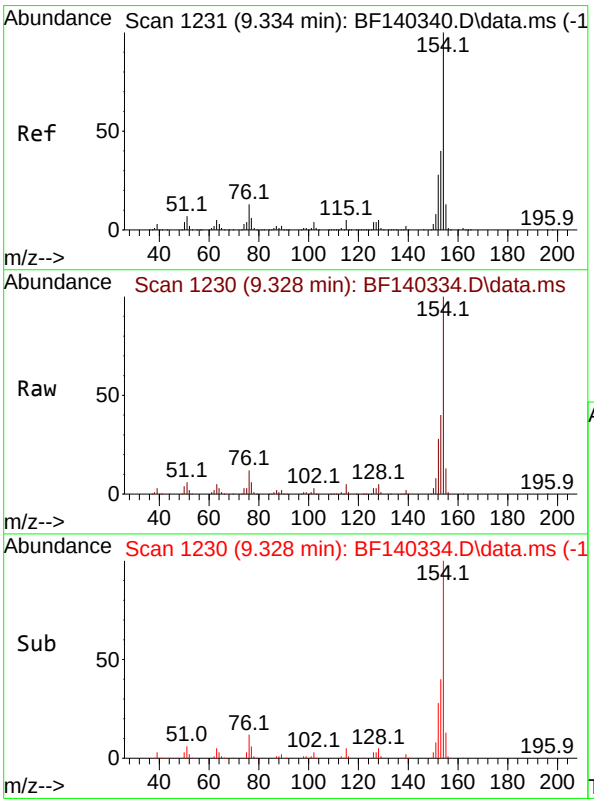
Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.5	42.7
170	23.1	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

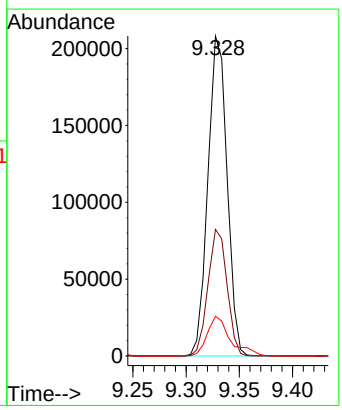
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

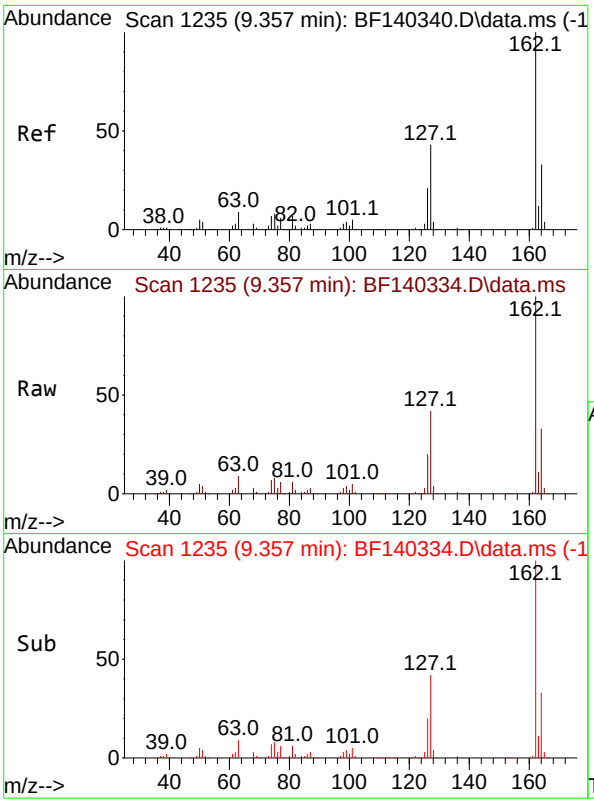


#46
1,1'-Biphenyl
Concen: 10.796 ng
RT: 9.328 min Scan# 1230
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:154 Resp: 261030

Ion	Ratio	Lower	Upper
154	100		
153	39.5	20.4	60.4
76	12.4	0.0	32.9

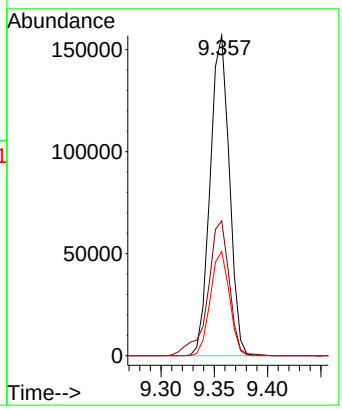




#47
2-Chloronaphthalene
Concen: 10.662 ng
RT: 9.357 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:162 Resp: 19637

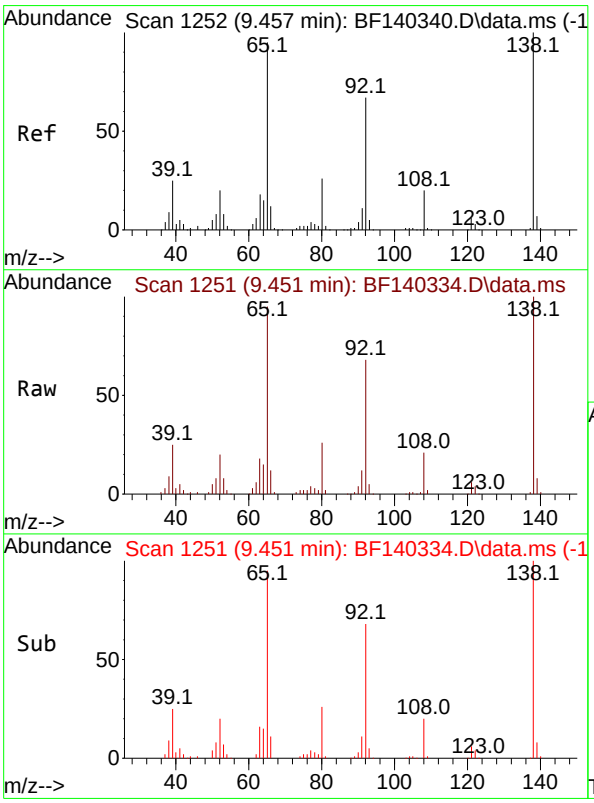
Ion	Ratio	Lower	Upper
162	100		
127	42.1	34.0	51.0
164	32.6	26.5	39.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

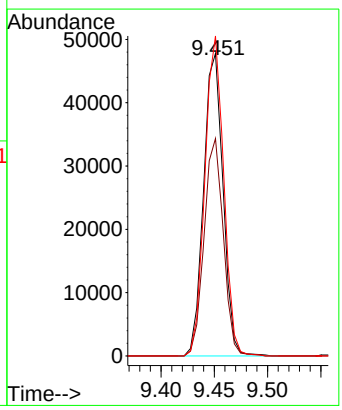
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

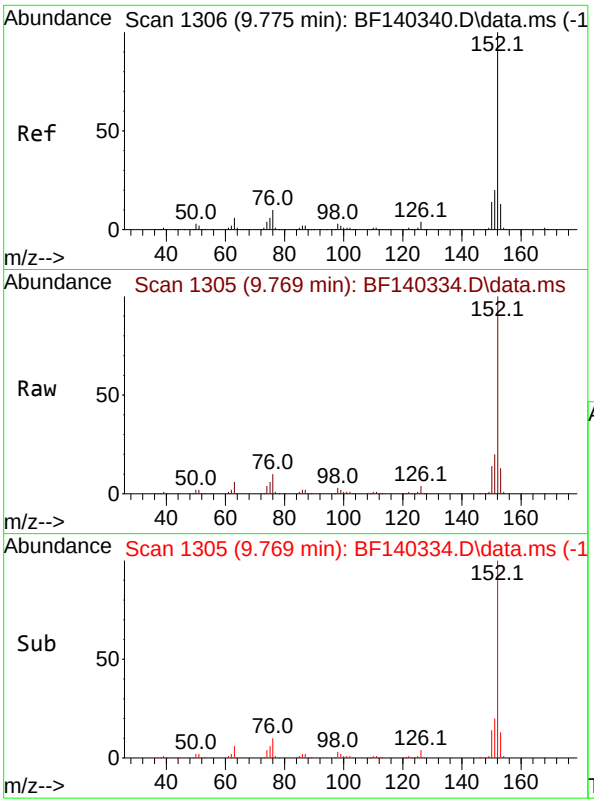


#48
2-Nitroaniline
Concen: 9.927 ng
RT: 9.451 min Scan# 1251
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 65 Resp: 60634

Ion	Ratio	Lower	Upper
65	100		
92	71.8	56.4	84.6
138	105.7	84.8	127.2

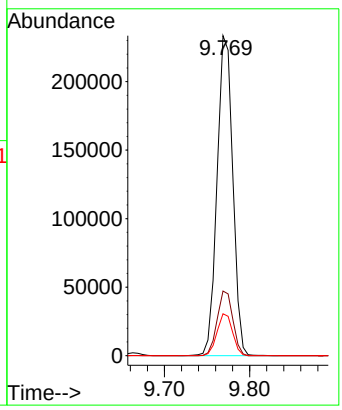




#49
Acenaphthylene
Concen: 10.749 ng
RT: 9.769 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:152 Resp: 29952

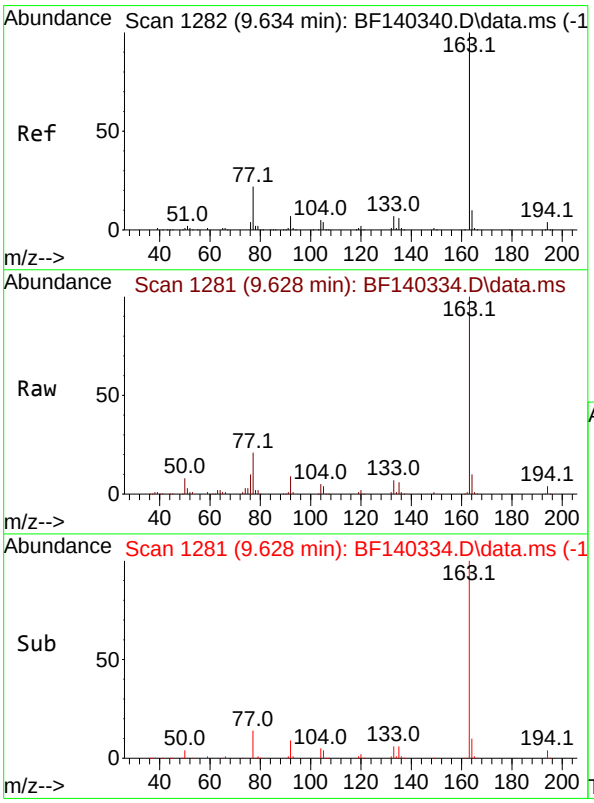
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.1	24.1
153	13.1	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

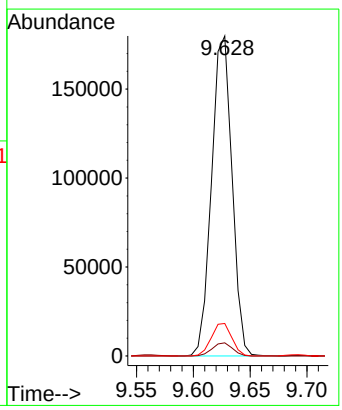
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

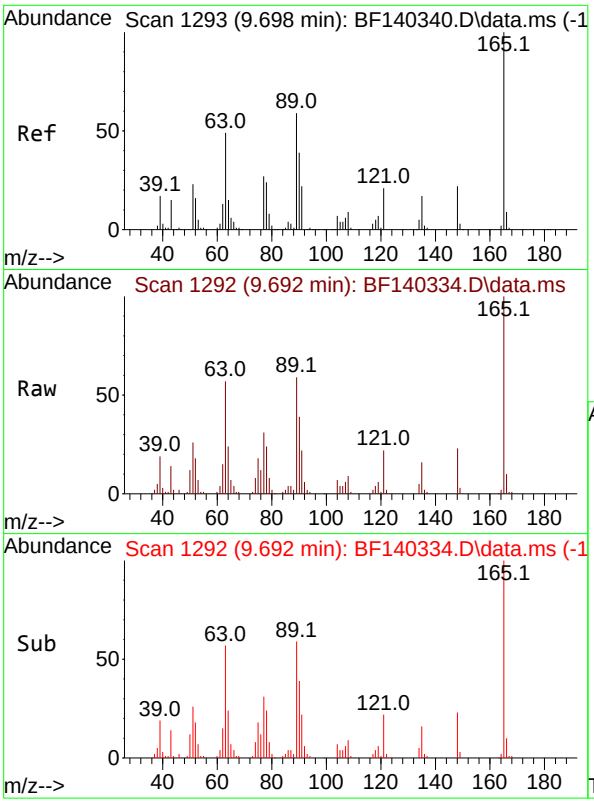


#50
Dimethylphthalate
Concen: 10.419 ng
RT: 9.628 min Scan# 1281
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:163 Resp: 225705

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.0	4.6
164	10.2	8.2	12.4





#51
2,6-Dinitrotoluene
Concen: 10.206 ng
RT: 9.692 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

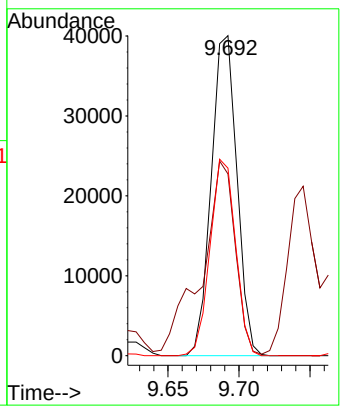
Tgt Ion:165 Resp: 5040

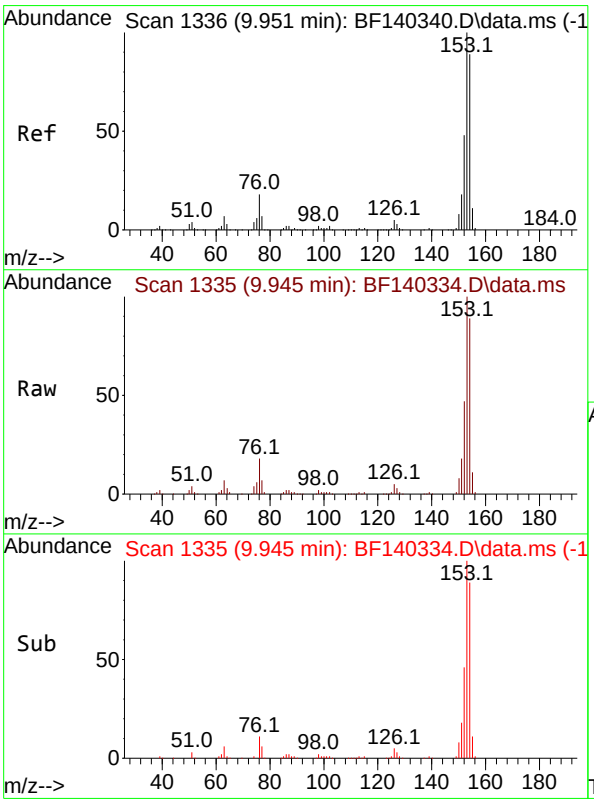
Ion	Ratio	Lower	Upper
165	100		
63	56.8	47.6	71.4
89	58.6	48.1	72.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

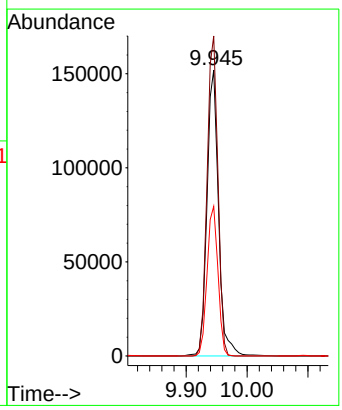


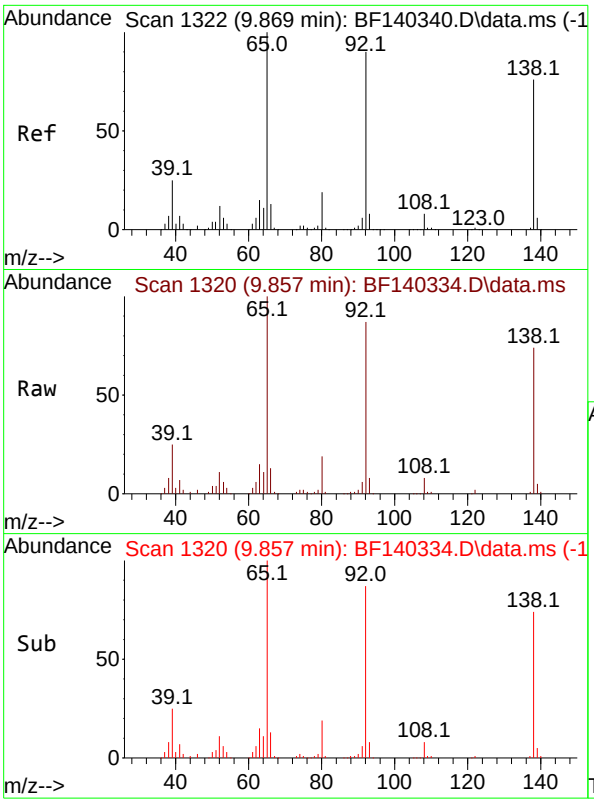


#52
Acenaphthene
Concen: 10.629 ng
RT: 9.945 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:154 Resp: 200055

Ion	Ratio	Lower	Upper
154	100		
153	111.9	89.8	134.8
152	52.3	42.6	64.0

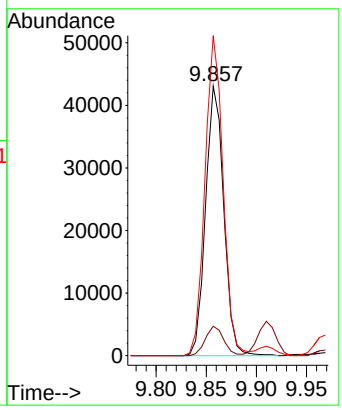




#53
3-Nitroaniline
Concen: 10.473 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:138 Resp: 5431

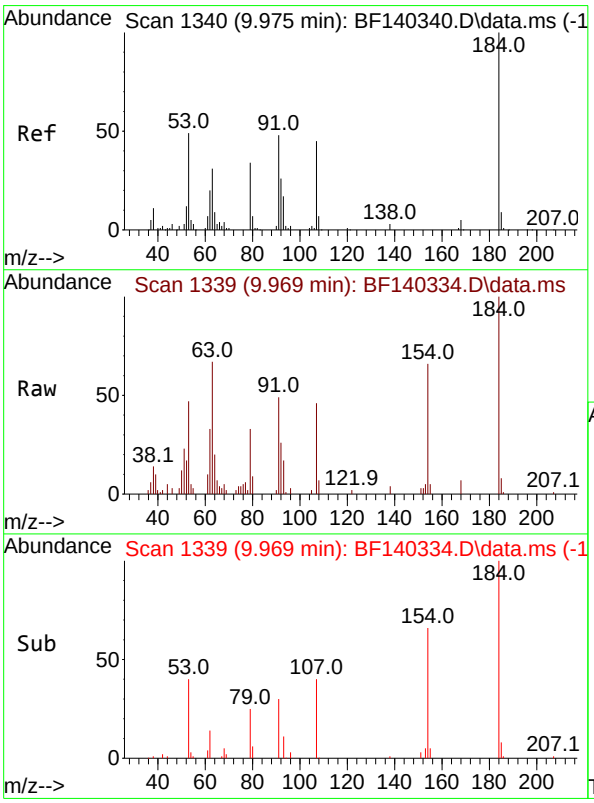
Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.4	12.6
92	118.7	95.5	143.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

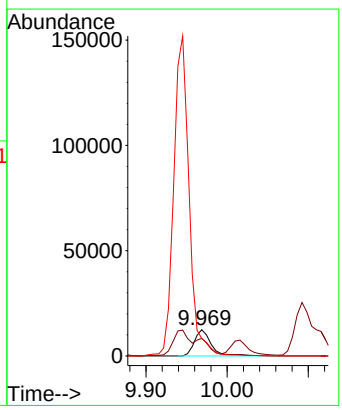
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

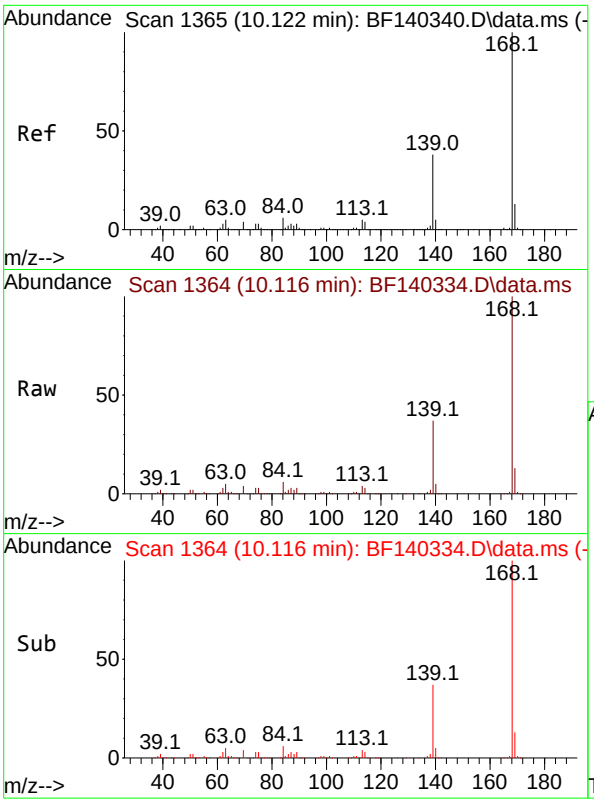


#54
2,4-Dinitrophenol
Concen: 7.117 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:184 Resp: 18126

Ion	Ratio	Lower	Upper
184	100		
63	66.6	53.5	80.3
154	66.3	51.3	76.9

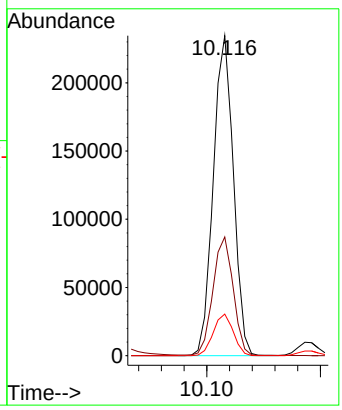




#55
Dibenzofuran
Concen: 10.825 ng
RT: 10.116 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:168 Resp: 28841

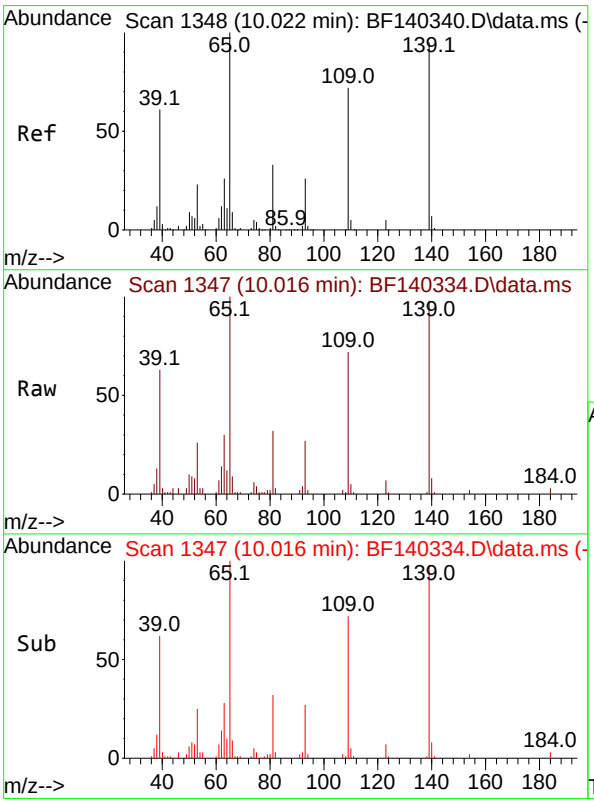
Ion	Ratio	Lower	Upper
168	100		
139	37.1	30.8	46.2
169	13.0	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

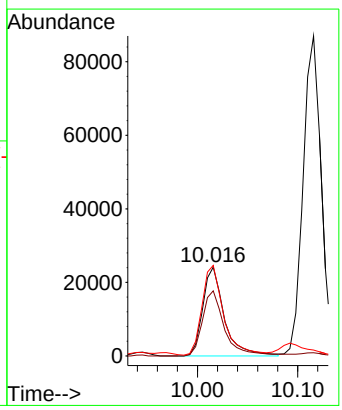
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

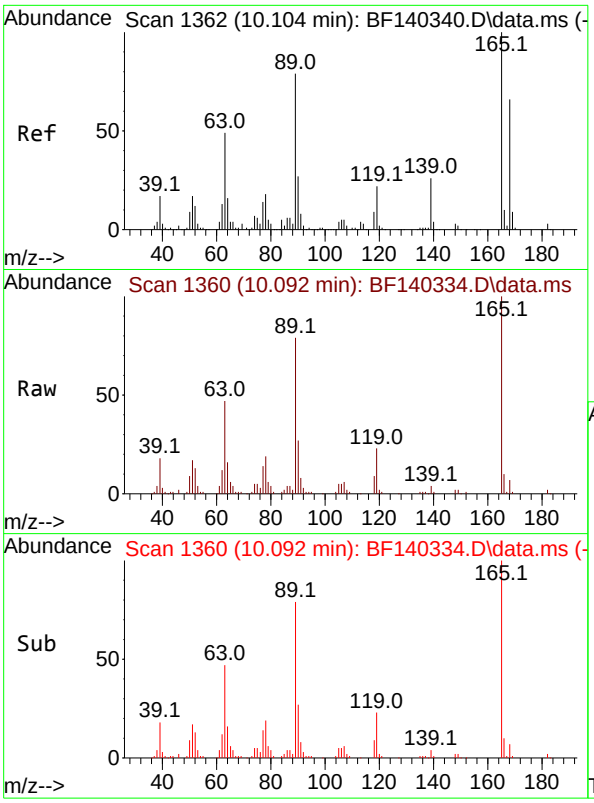


#56
4-Nitrophenol
Concen: 9.531 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:139 Resp: 36056

Ion	Ratio	Lower	Upper
139	100		
109	73.3	54.5	94.5
65	102.0	84.4	124.4

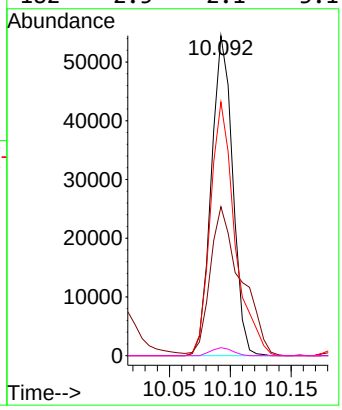




#57
2,4-Dinitrotoluene
Concen: 10.231 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:165 Resp: 6649

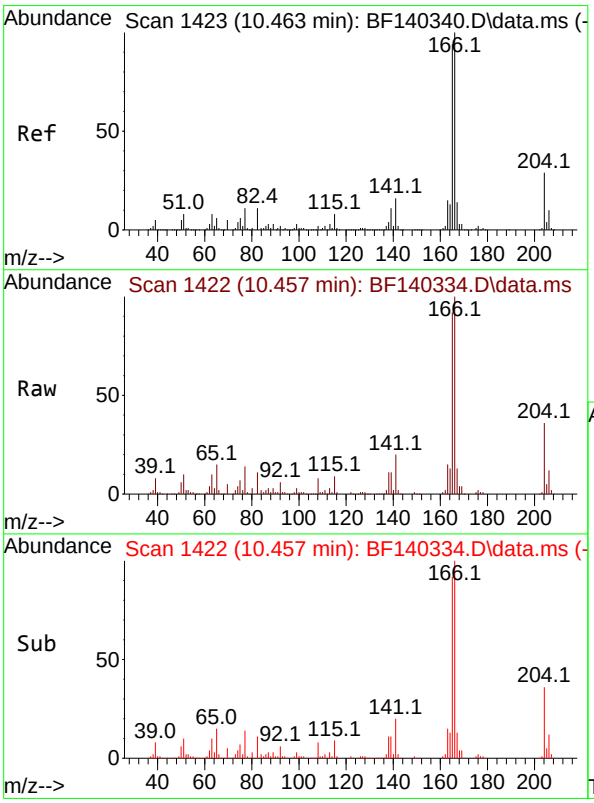
Ion	Ratio	Lower	Upper
165	100		
63	46.5	39.4	59.0
89	79.2	62.4	93.6
182	2.5	2.1	3.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

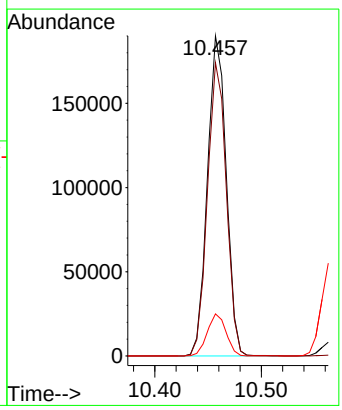
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

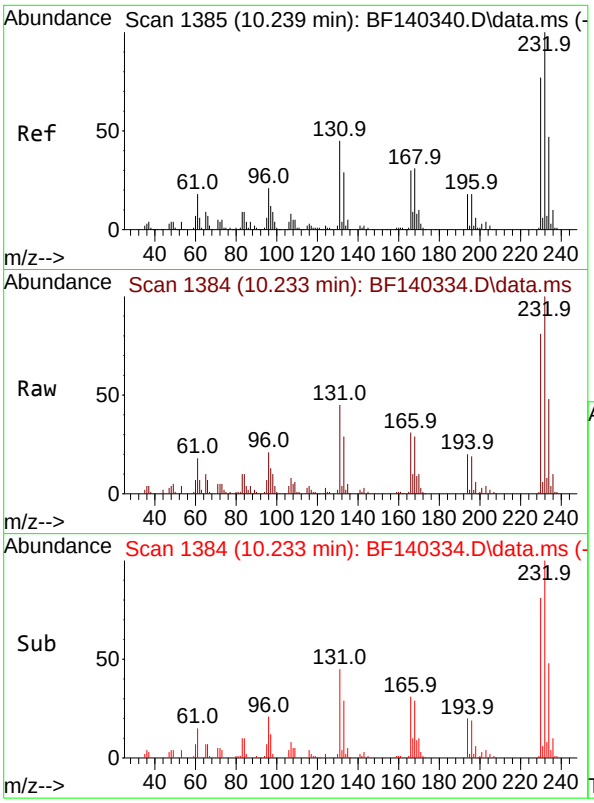


#58
Fluorene
Concen: 11.080 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:166 Resp: 233209

Ion	Ratio	Lower	Upper
166	100		
165	91.6	73.9	110.9
167	13.2	10.9	16.3

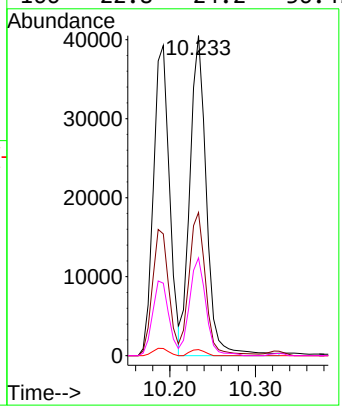




#59
2,3,4,6-Tetrachlorophenol
Concen: 10.489 ng m
RT: 10.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:232 Resp: 5456

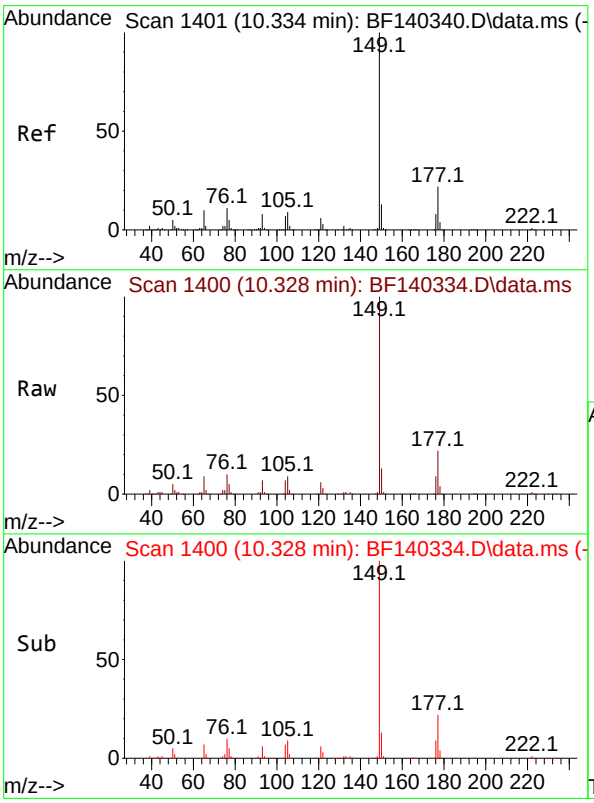
Ion	Ratio	Lower	Upper
232	100		
131	38.6	36.8	55.2
130	2.1	1.9	2.9
166	22.8	24.2	36.4#



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

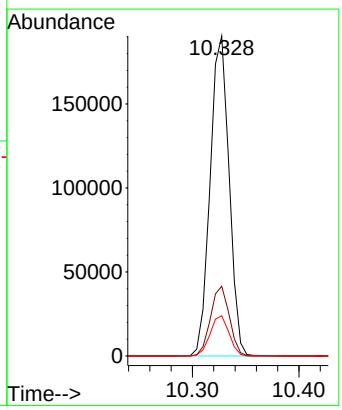
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

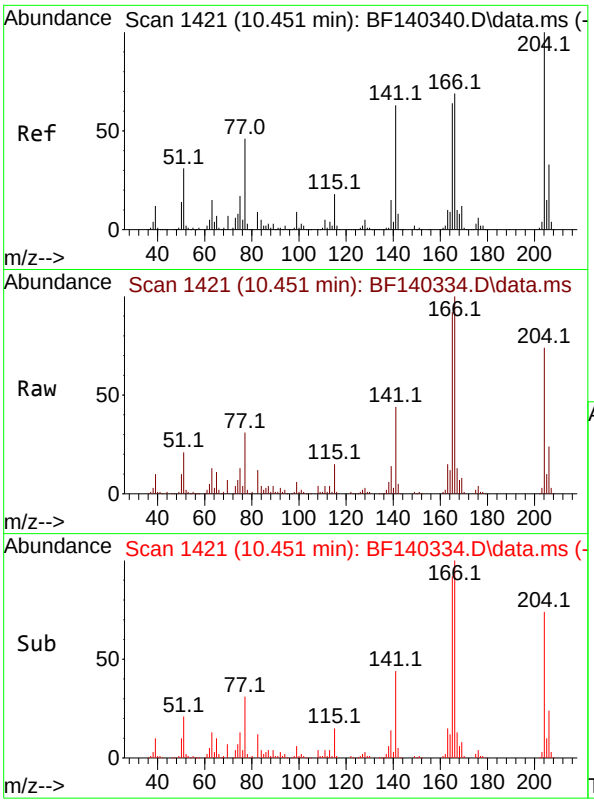


#60
Diethylphthalate
Concen: 10.632 ng
RT: 10.328 min Scan# 1400
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:149 Resp: 235508

Ion	Ratio	Lower	Upper
149	100		
177	21.8	17.5	26.3
150	12.6	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 11.002 ng
RT: 10.451 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

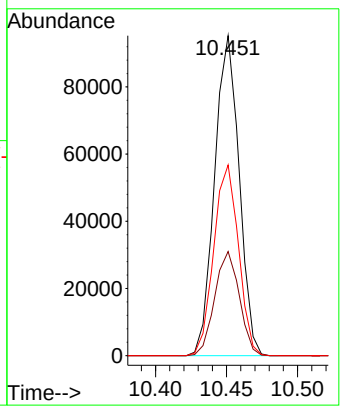
Tgt Ion:204 Resp: 11432

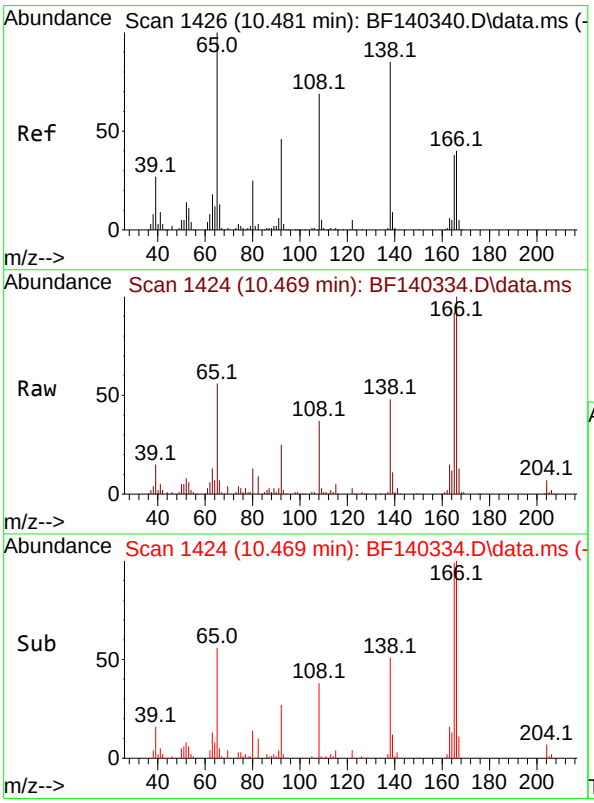
Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.0	39.0
141	59.6	49.8	74.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

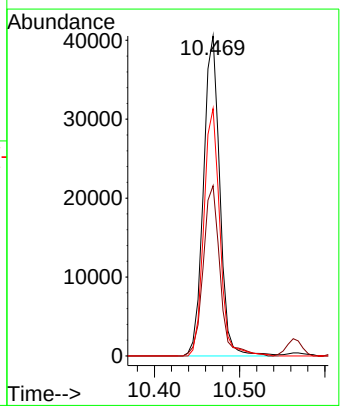


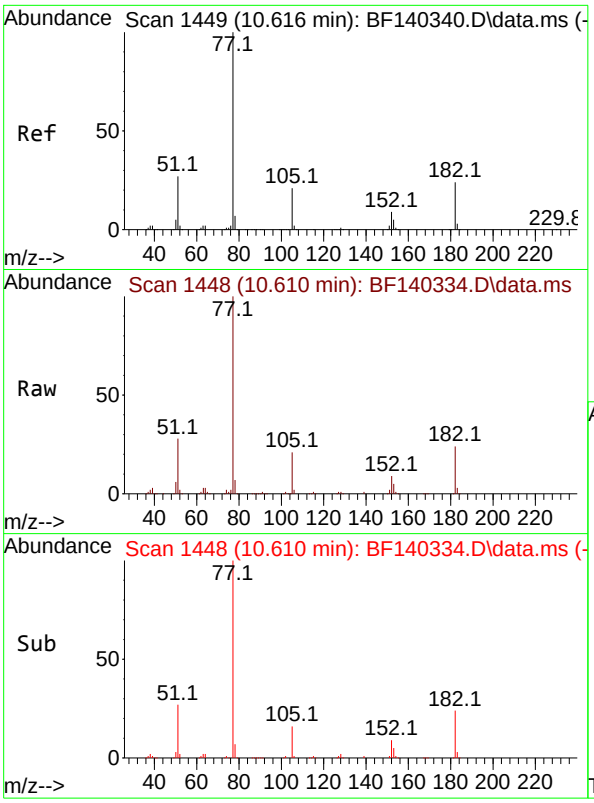


#62
4-Nitroaniline
Concen: 10.188 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:138 Resp: 54026

Ion	Ratio	Lower	Upper
138	100		
92	53.2	33.8	73.8
108	77.3	59.9	99.9

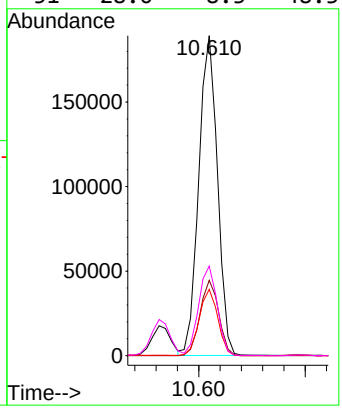




#63
Azobenzene
Concen: 10.562 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion: 77 Resp: 23116

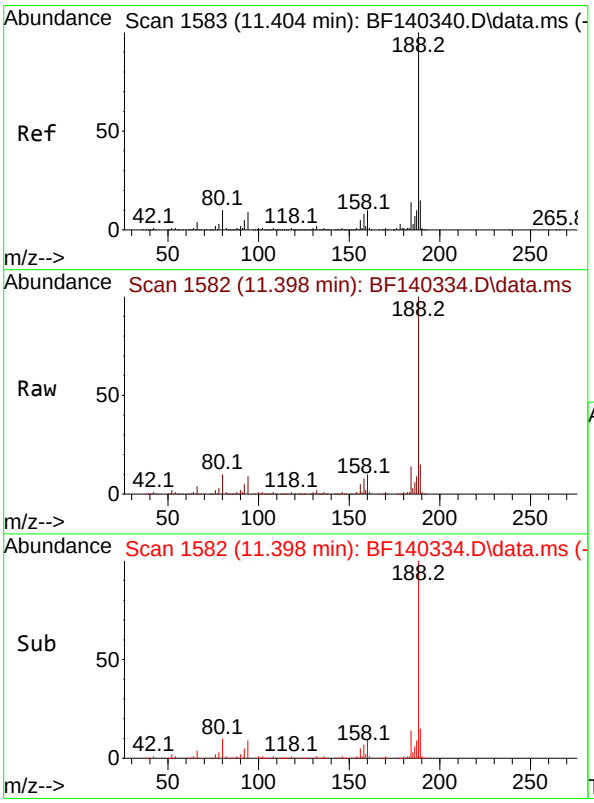
Ion	Ratio	Lower	Upper
77	100		
182	23.6	4.6	44.6
105	20.7	0.9	40.9
51	28.0	8.3	48.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

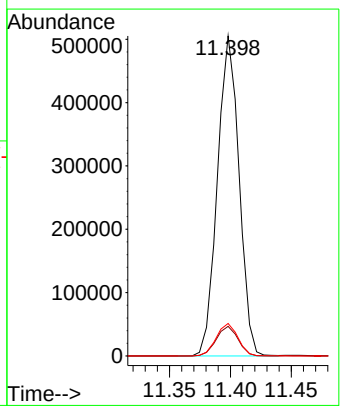
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

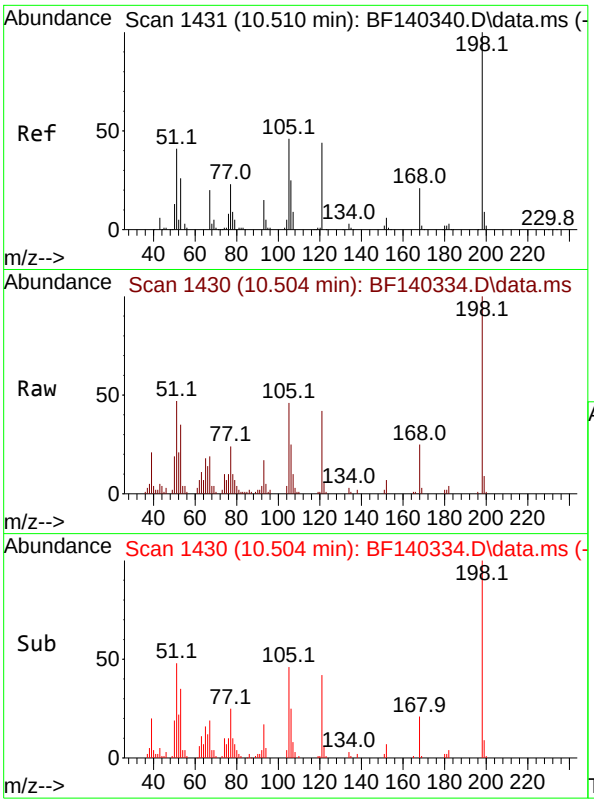


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:188 Resp: 625922

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.6	11.4
80	10.2	8.0	12.0





#65
4,6-Dinitro-2-methylphenol
Concen: 9.095 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

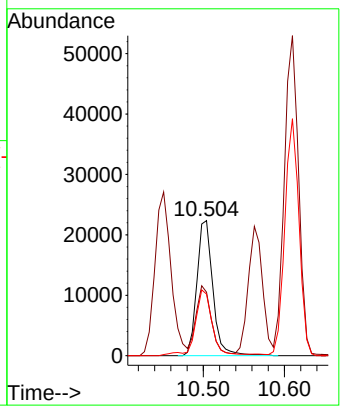
Tgt Ion:198 Resp: 3062

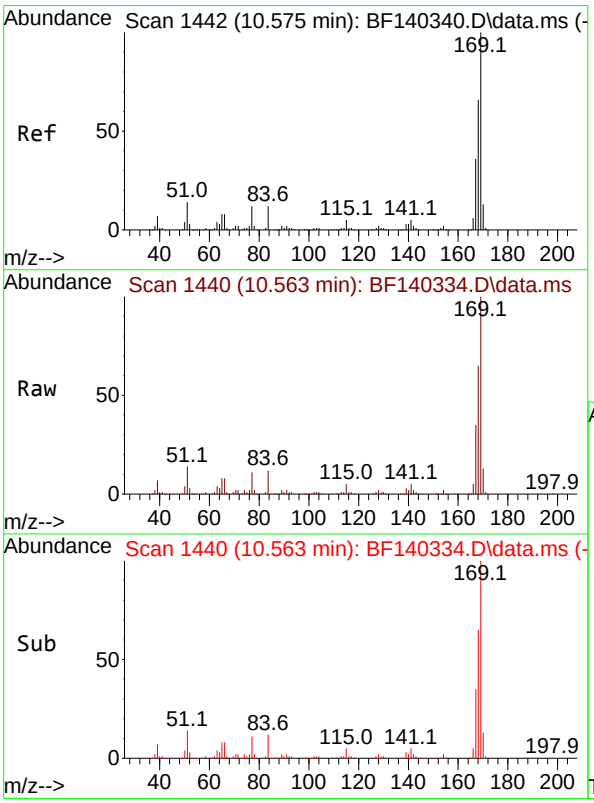
Ion	Ratio	Lower	Upper
198	100		
51	47.0	29.7	69.7
105	45.6	26.3	66.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

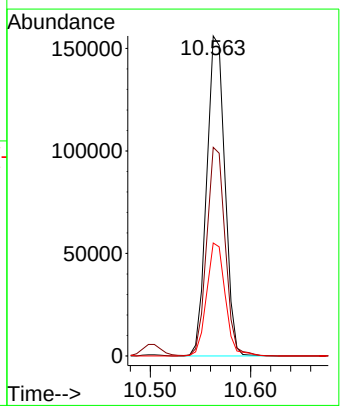


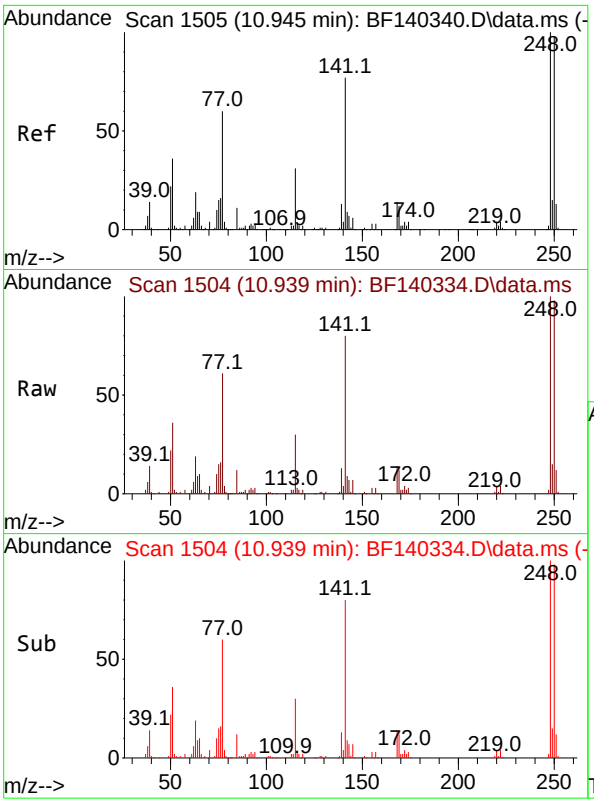


#66
n-Nitrosodiphenylamine
Concen: 10.896 ng
RT: 10.563 min Scan# 1440
Delta R.T. -0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:169 Resp: 197047

Ion	Ratio	Lower	Upper
169	100		
168	65.2	52.7	79.1
167	35.3	29.3	43.9

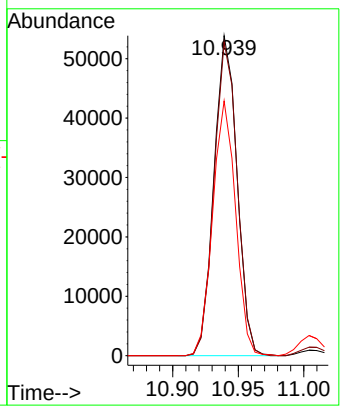




#67
4-Bromophenyl-phenylether
Concen: 10.524 ng
RT: 10.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:248 Resp: 6584

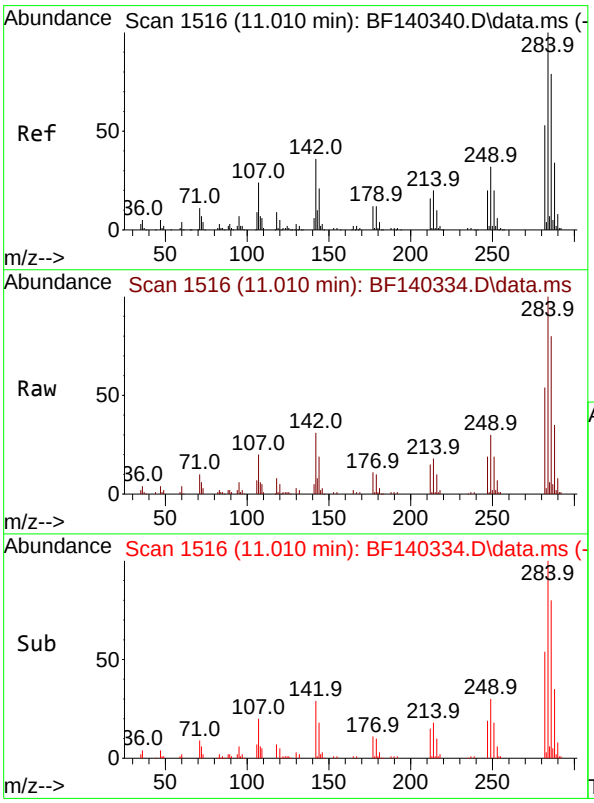
Ion	Ratio	Lower	Upper
248	100		
250	97.9	77.9	116.9
141	79.6	61.8	92.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

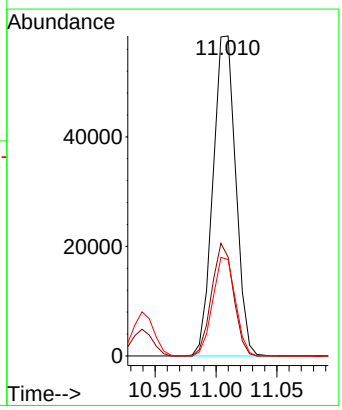
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

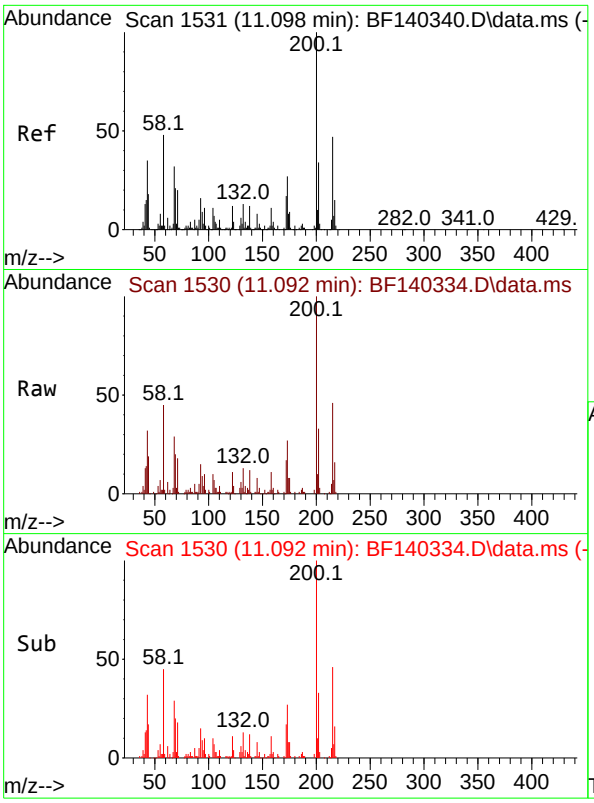


#68
Hexachlorobenzene
Concen: 10.755 ng
RT: 11.010 min Scan# 1516
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:284 Resp: 75713

Ion	Ratio	Lower	Upper
284	100		
142	30.9	28.1	42.1
249	30.2	24.9	37.3

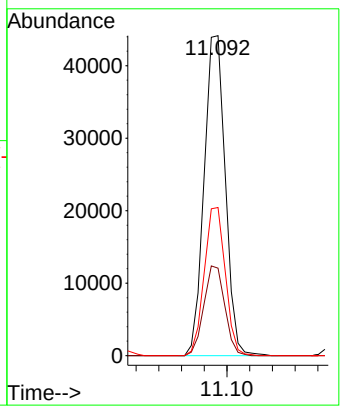




#69
Atrazine
Concen: 10.462 ng
RT: 11.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:200 Resp: 5724

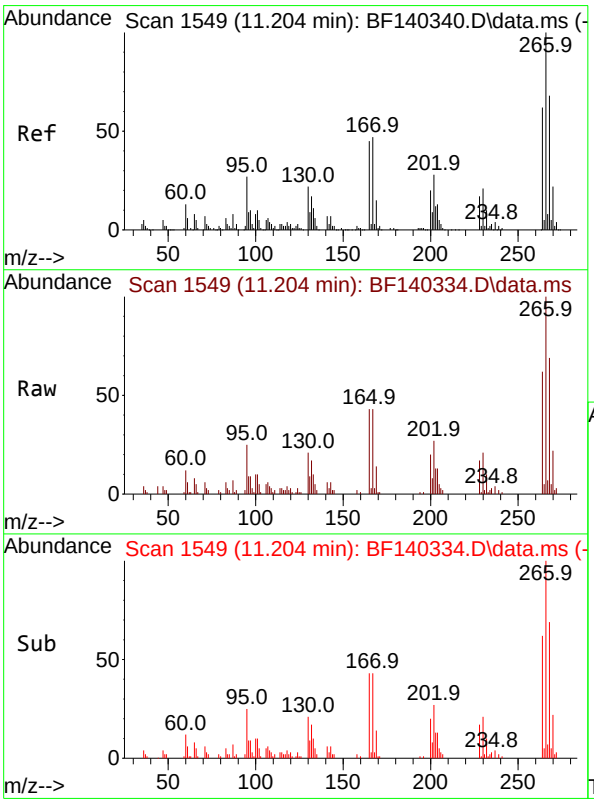
Ion	Ratio	Lower	Upper
200	100		
173	27.3	6.6	46.6
215	46.3	27.2	67.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

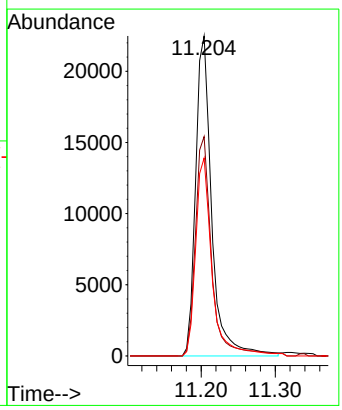
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

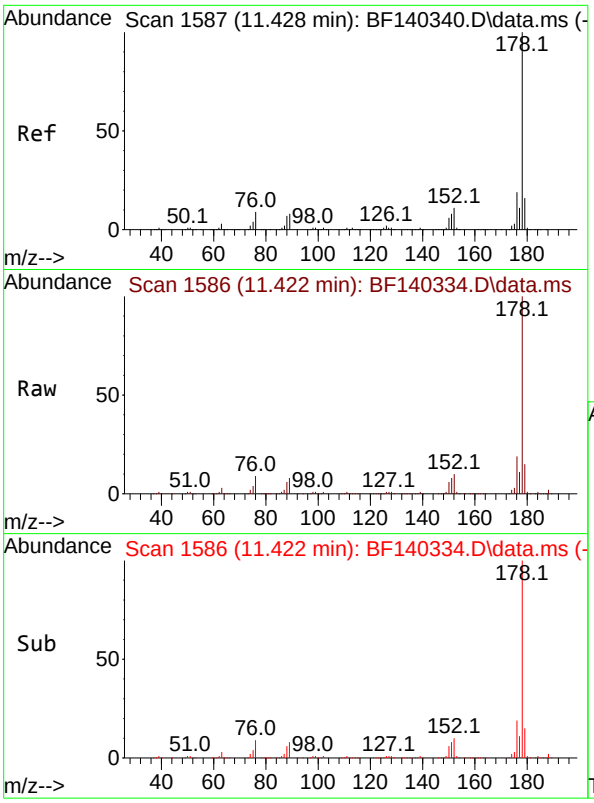


#70
Pentachlorophenol
Concen: 8.935 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:266 Resp: 33884

Ion	Ratio	Lower	Upper
266	100		
268	68.6	52.9	79.3
264	61.9	50.3	75.5

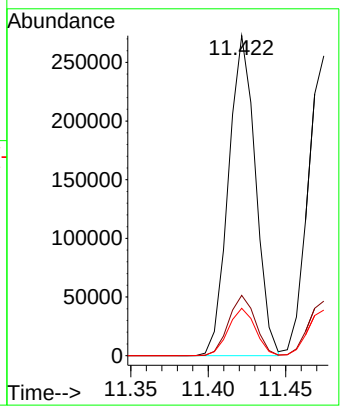




#71
Phenanthrene
Concen: 11.209 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:178 Resp: 32958

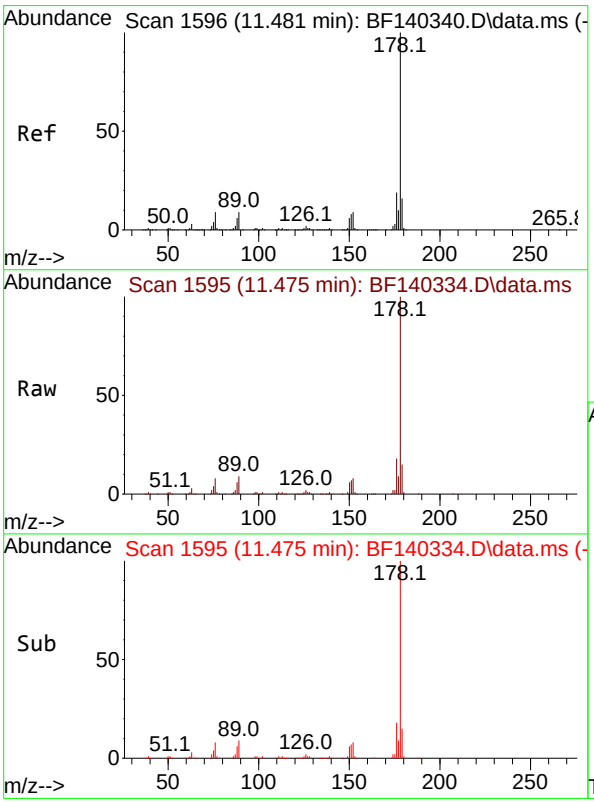
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.5	23.3
179	14.8	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

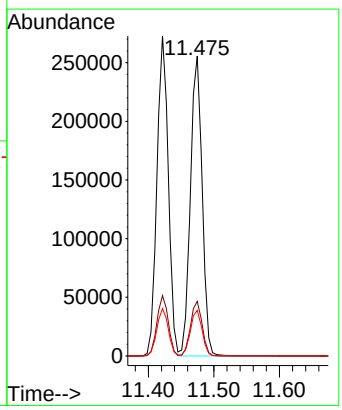
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

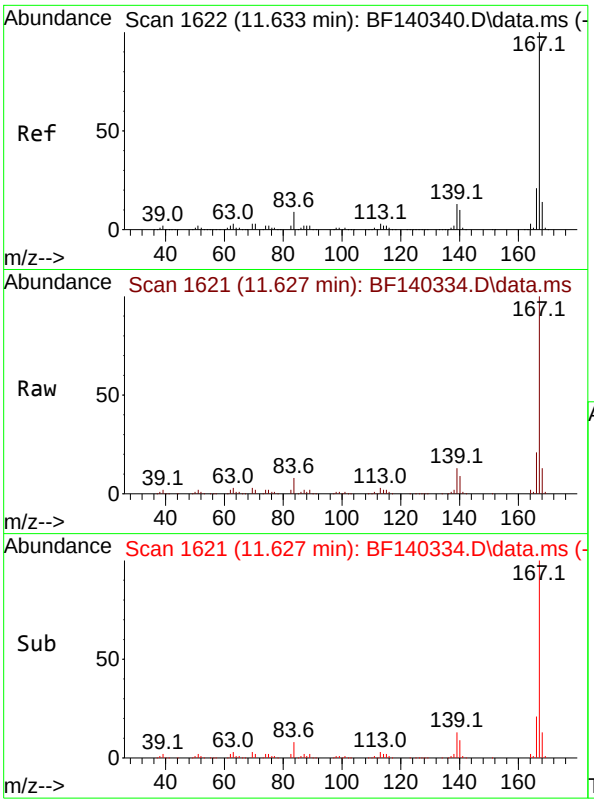


#72
Anthracene
Concen: 11.055 ng
RT: 11.475 min Scan# 1595
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:178 Resp: 318560

Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.4	23.0
179	15.2	12.6	18.8

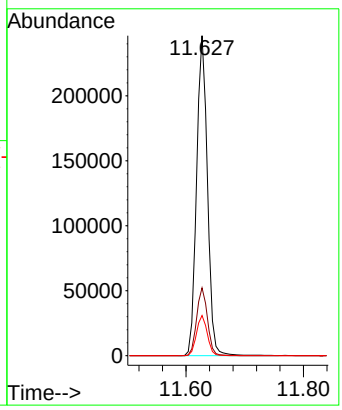




#73
Carbazole
Concen: 11.101 ng
RT: 11.627 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:167 Resp: 31585

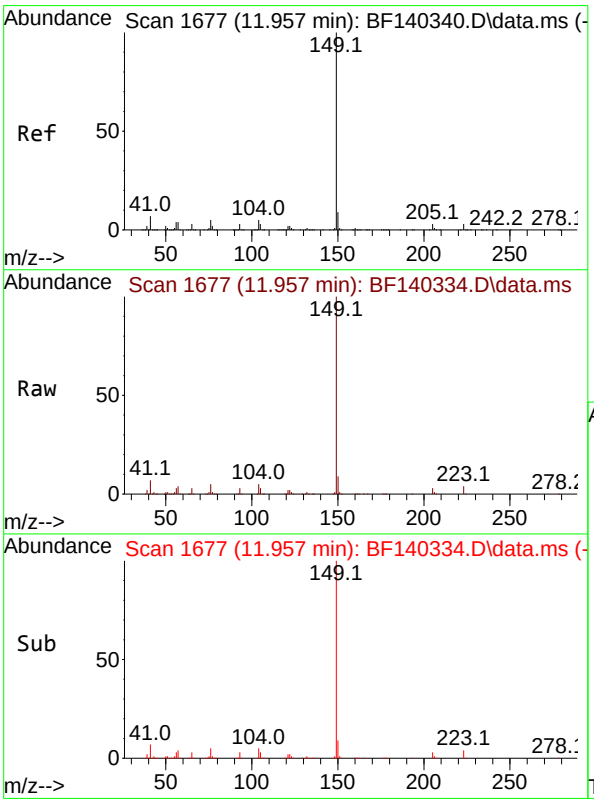
Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.2	25.8
139	12.6	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

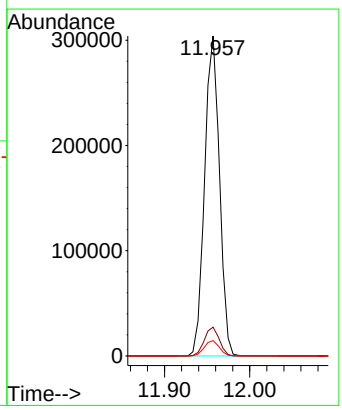
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

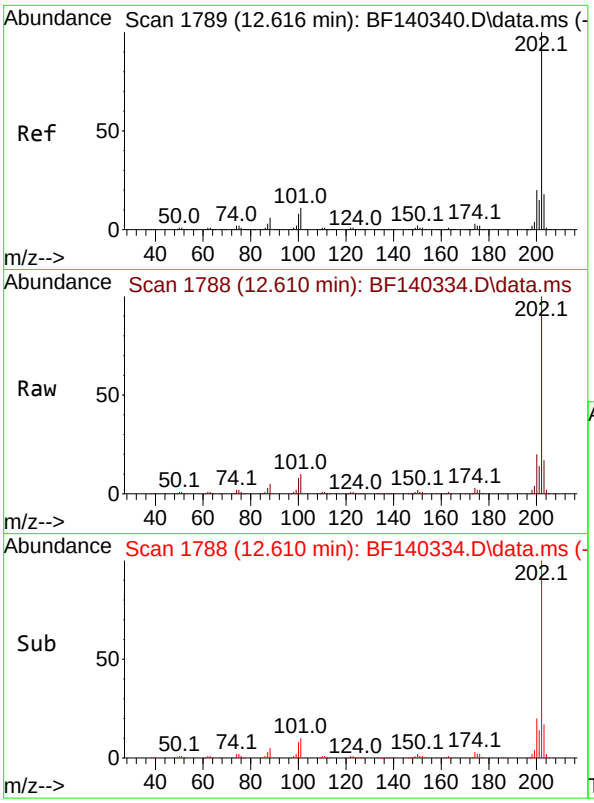


#74
Di-n-butylphthalate
Concen: 10.788 ng
RT: 11.957 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:149 Resp: 368412

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.2
104	4.8	4.0	6.0

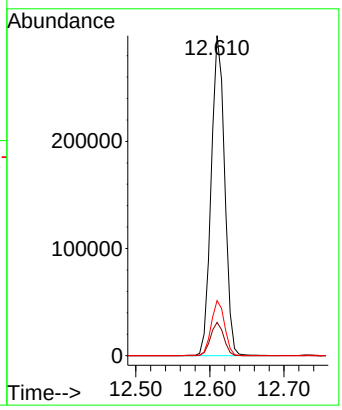




#75
Fluoranthene
Concen: 11.394 ng
RT: 12.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:202 Resp: 37584

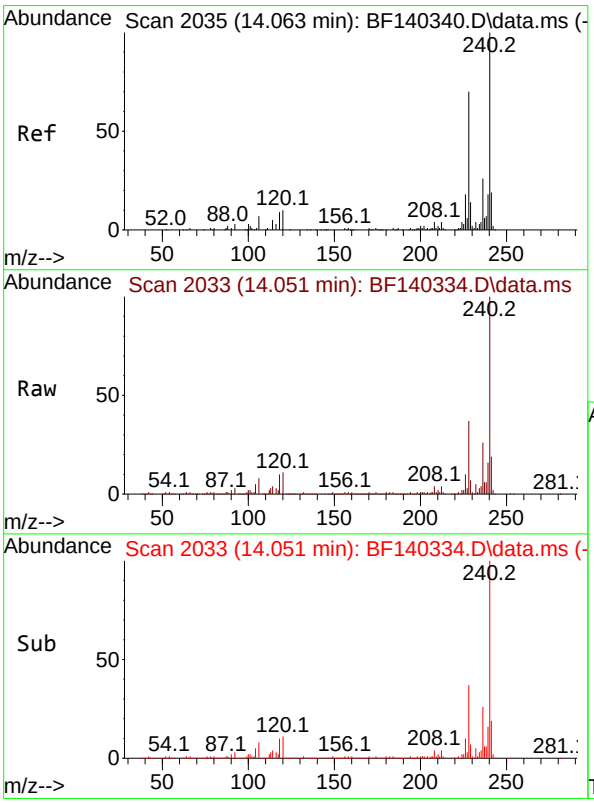
Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	30.7
203	17.2	0.0	37.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

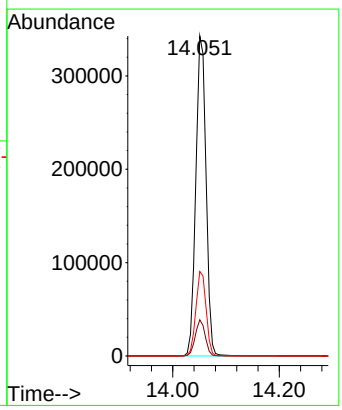
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

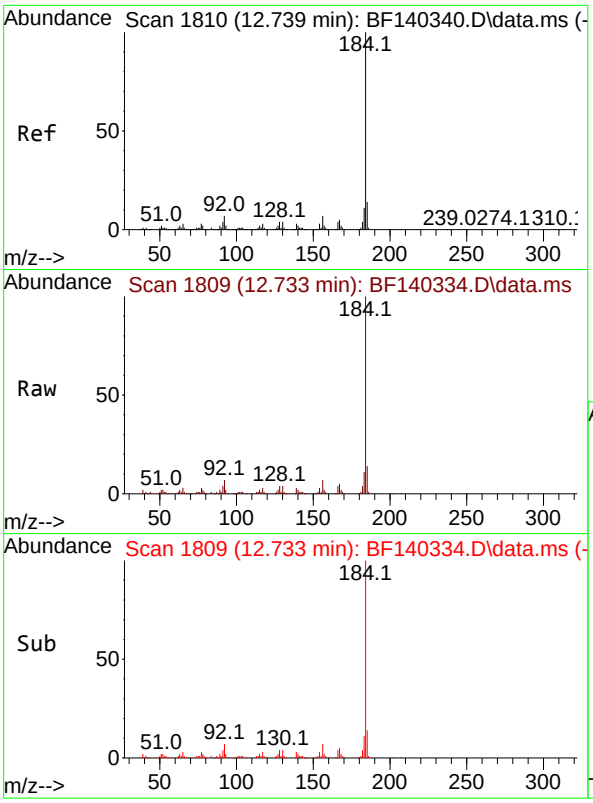


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:240 Resp: 456049

Ion	Ratio	Lower	Upper
240	100		
120	11.3	8.8	13.2
236	26.4	20.9	31.3

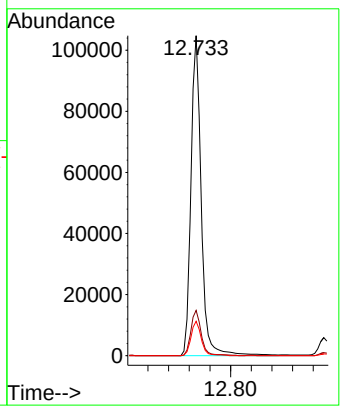




#77
Benzidine
Concen: 8.261 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:184 Resp: 14459

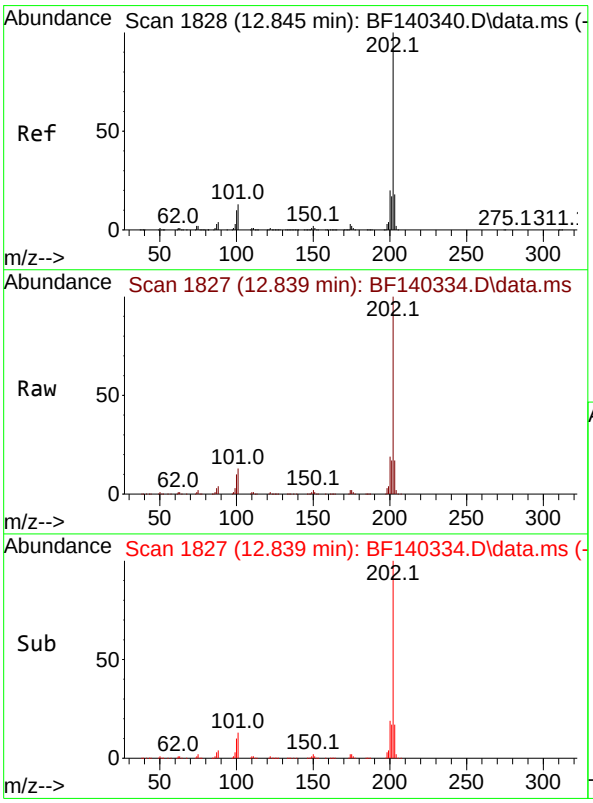
Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.9	17.9
183	10.8	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

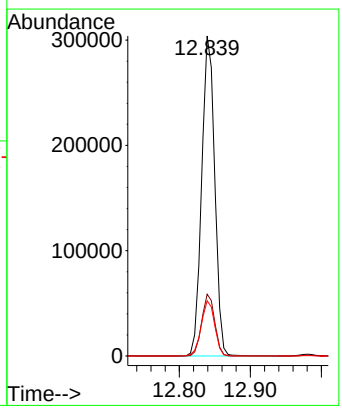
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

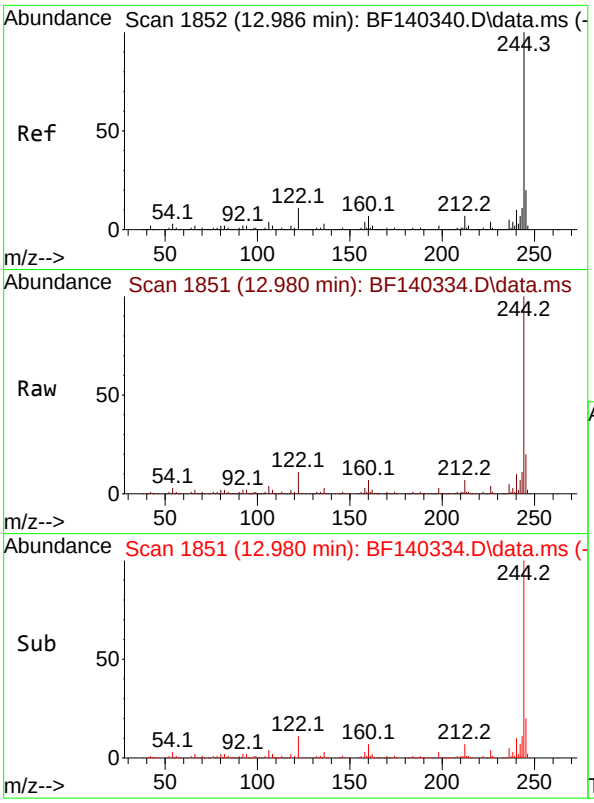


#78
Pyrene
Concen: 9.972 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:202 Resp: 388982

Ion	Ratio	Lower	Upper
202	100		
200	19.3	16.2	24.2
203	17.3	14.2	21.4

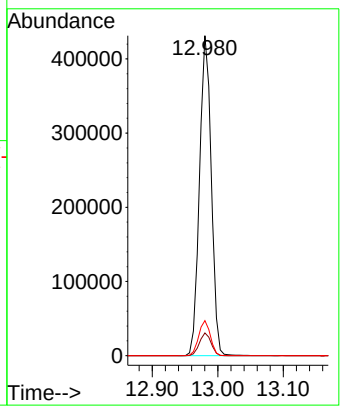




#79
Terphenyl-d14
Concen: 20.567 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:244 Resp: 54036

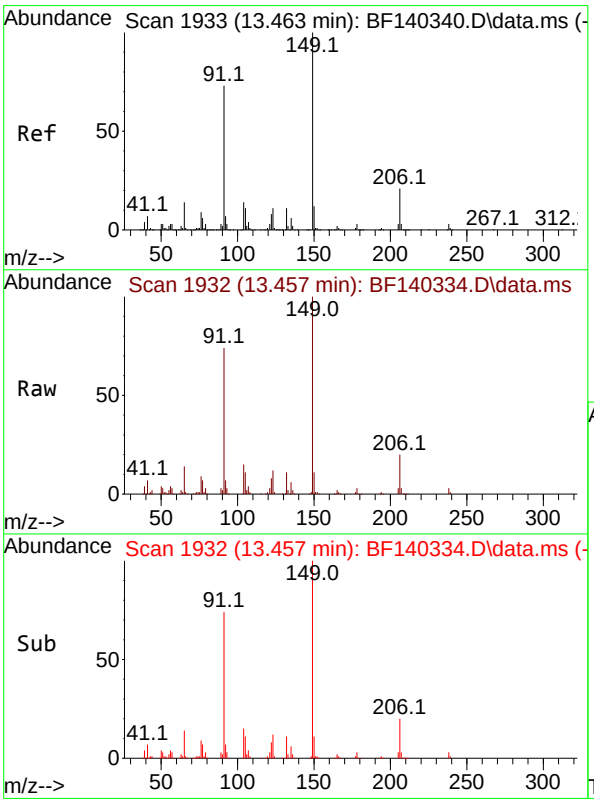
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	11.0	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

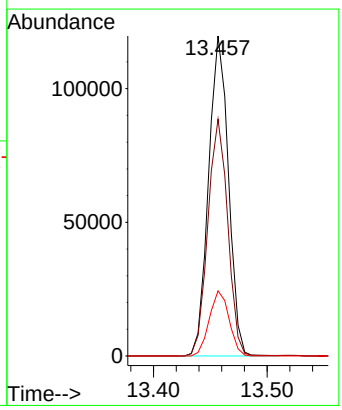
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

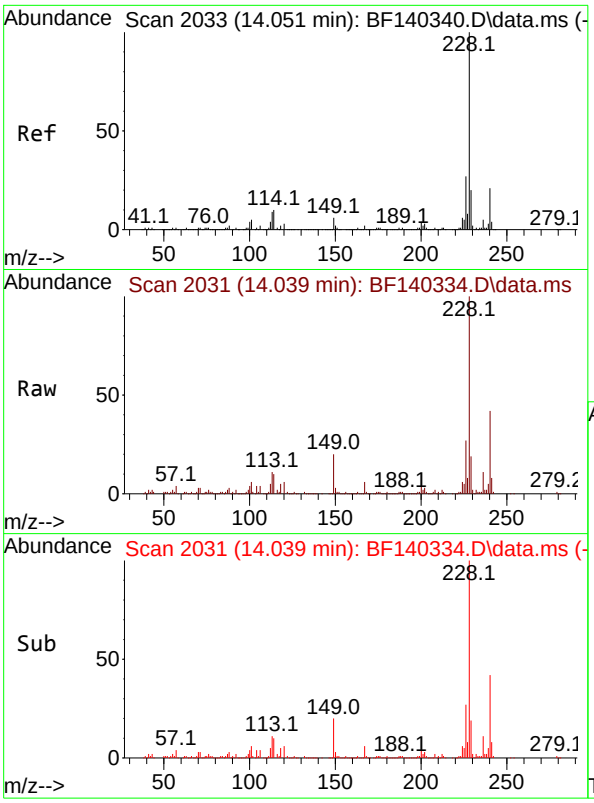


#80
Butylbenzylphthalate
Concen: 9.702 ng
RT: 13.457 min Scan# 1932
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:149 Resp: 145394

Ion	Ratio	Lower	Upper
149	100		
91	74.0	61.0	91.4
206	20.4	16.1	24.1

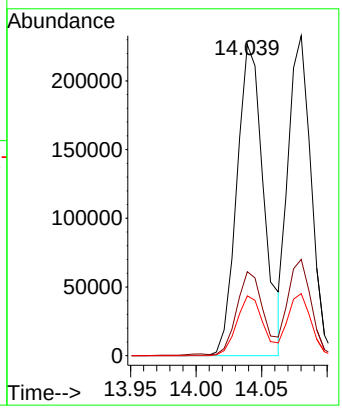




#81
Benzo(a)anthracene
Concen: 10.791 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:228 Resp: 32344

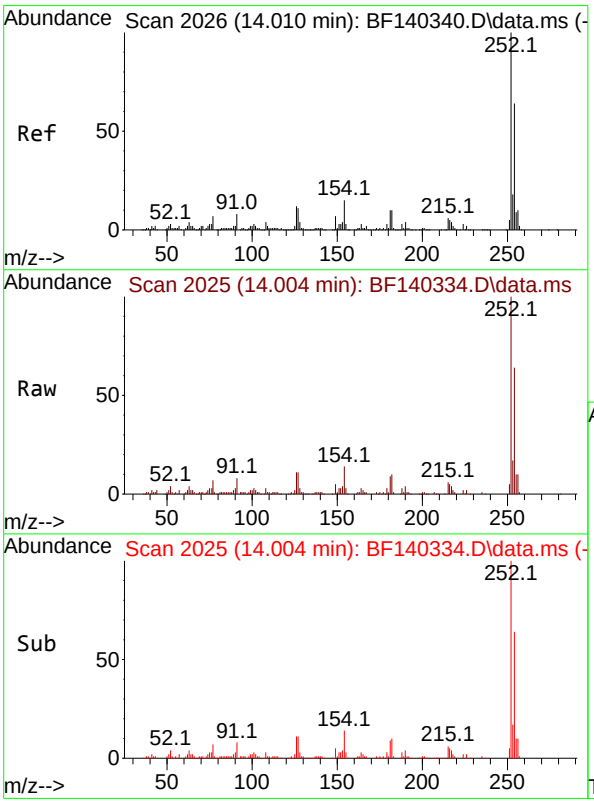
Ion	Ratio	Lower	Upper
228	100		
226	27.0	22.2	33.4
229	19.2	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

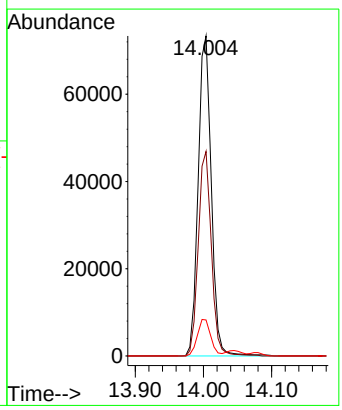
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

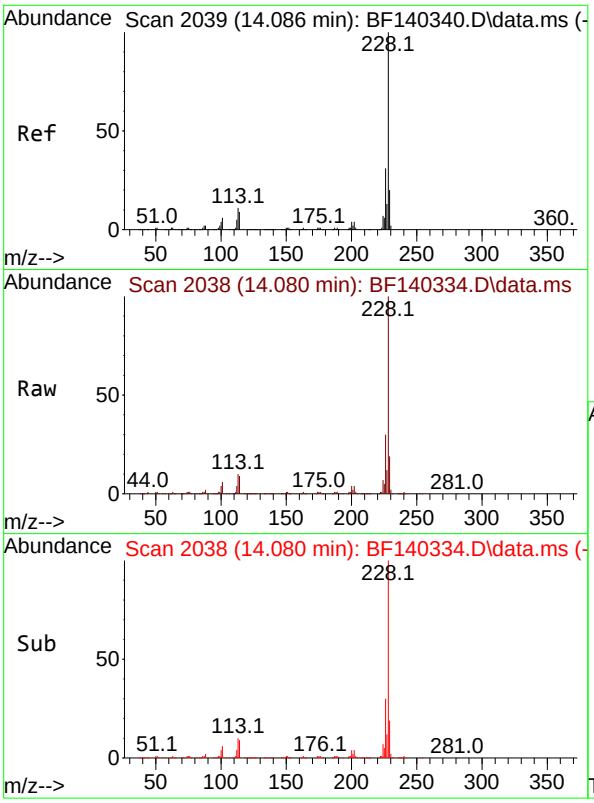


#82
3,3'-Dichlorobenzidine
Concen: 10.309 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:252 Resp: 98211

Ion	Ratio	Lower	Upper
252	100		
254	63.9	51.4	77.2
126	11.3	9.4	14.0

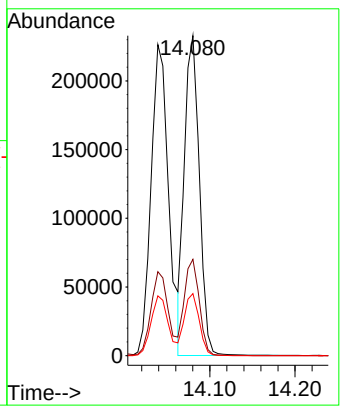




#83
Chrysene
Concen: 10.343 ng
RT: 14.080 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:228 Resp: 28286

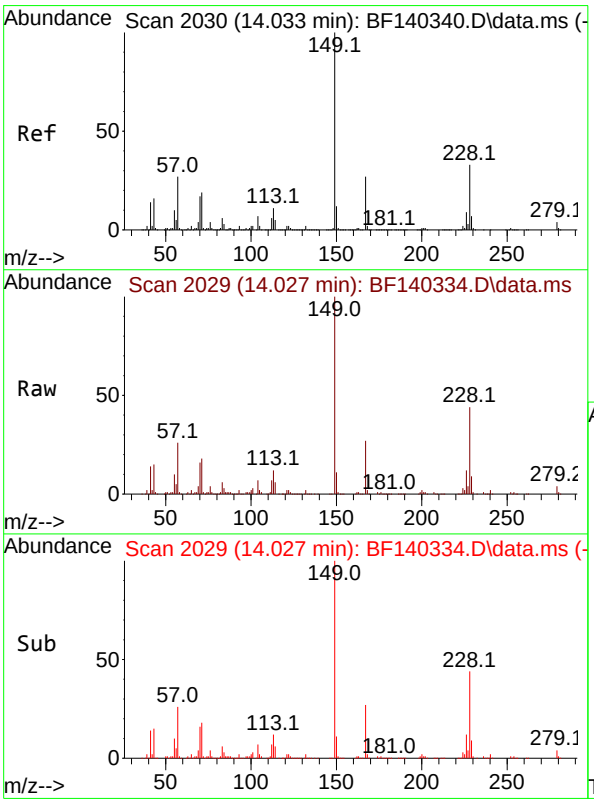
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.5	36.7
229	19.4	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

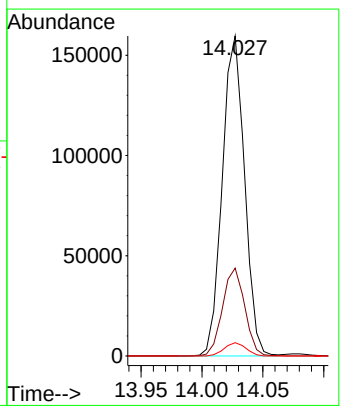
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

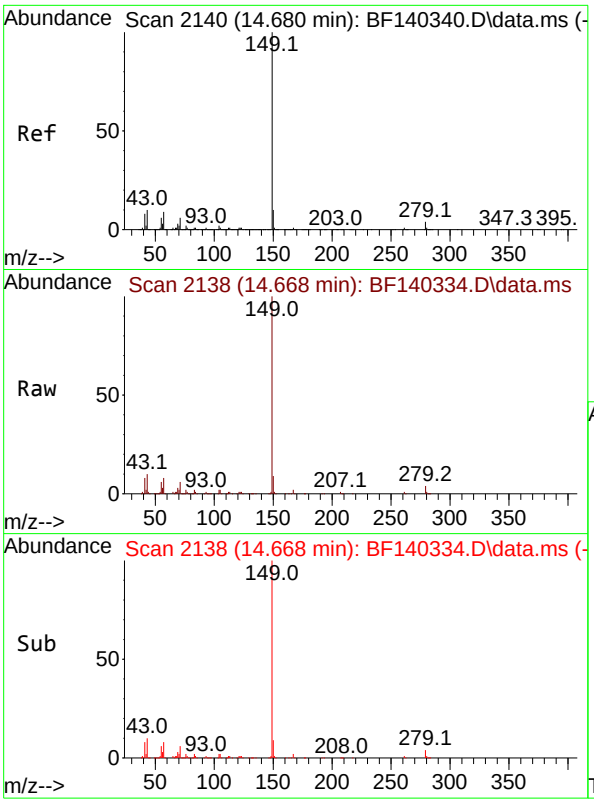


#84
Bis(2-ethylhexyl)phthalate
Concen: 10.147 ng
RT: 14.027 min Scan# 2029
Delta R.T. 0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:149 Resp: 202970

Ion	Ratio	Lower	Upper
149	100		
167	27.5	21.4	32.0
279	4.2	3.0	4.6

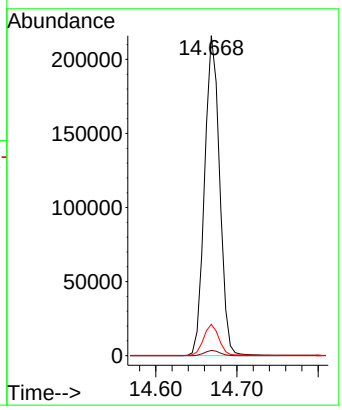




#85
Di-n-octyl phthalate
Concen: 9.847 ng
RT: 14.668 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:149 Resp: 27739

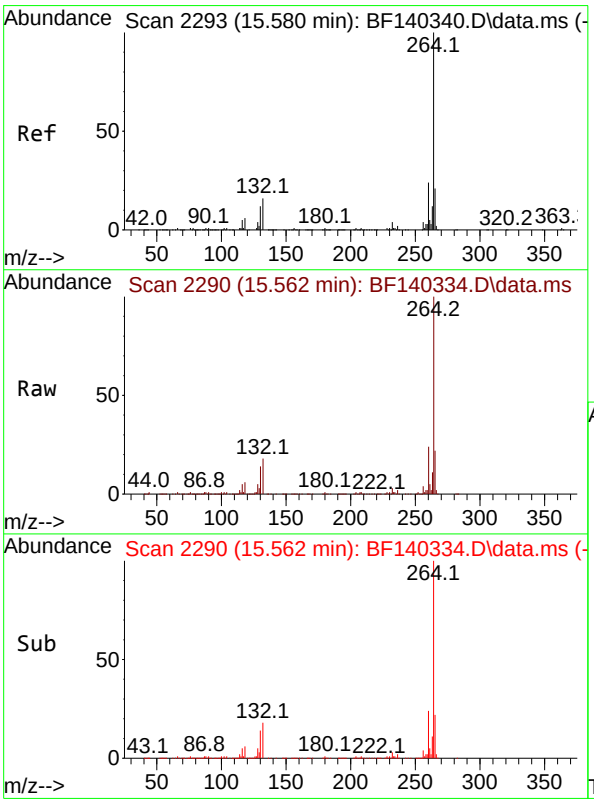
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.2	1.8
43	9.9	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

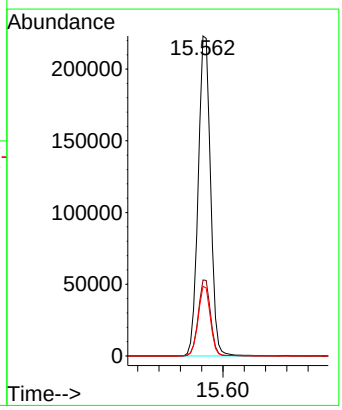
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

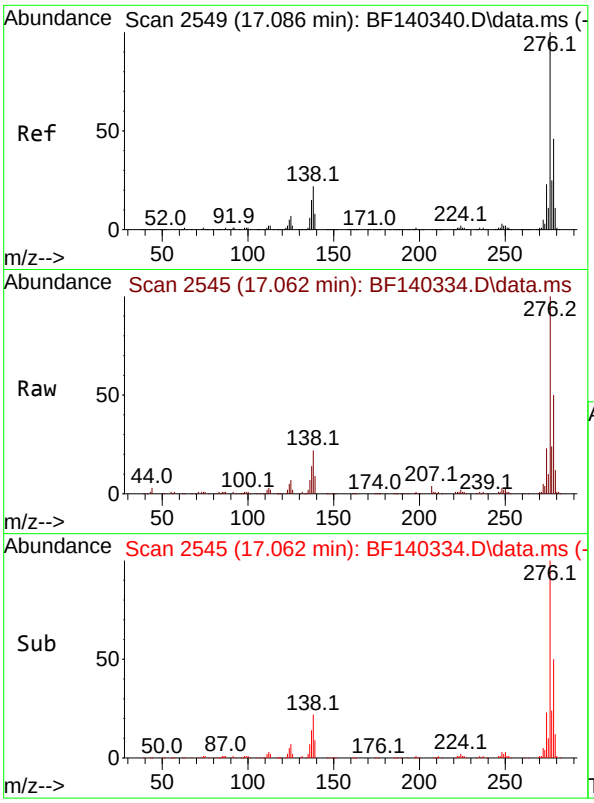


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2290
Delta R.T. 0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:264 Resp: 358045

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	21.8	17.1	25.7

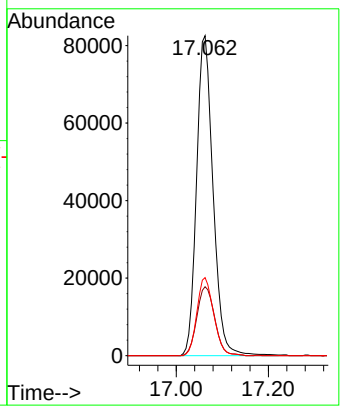




#87
Indeno(1,2,3-cd)pyrene
Concen: 9.305 ng
RT: 17.062 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:276 Resp: 20580

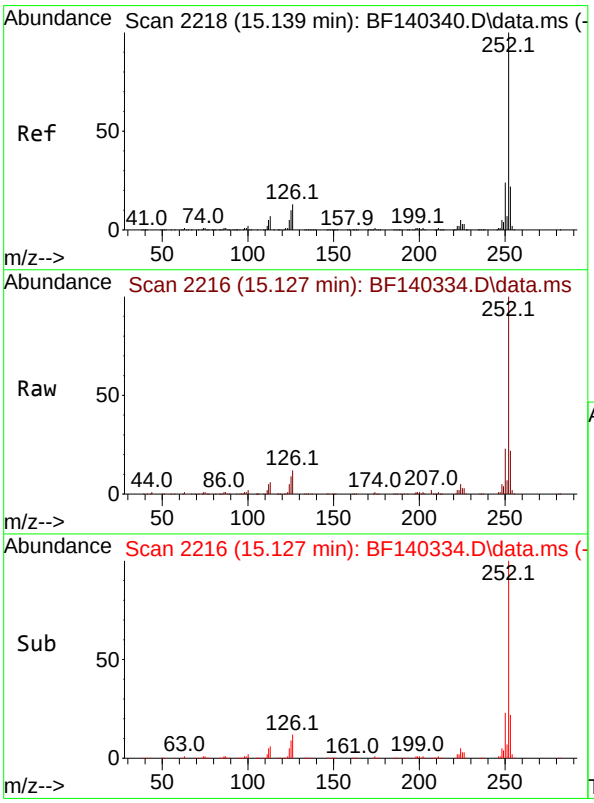
Ion	Ratio	Lower	Upper
276	100		
138	23.3	18.8	28.2
277	24.8	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

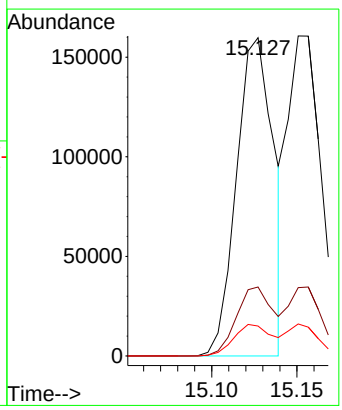
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

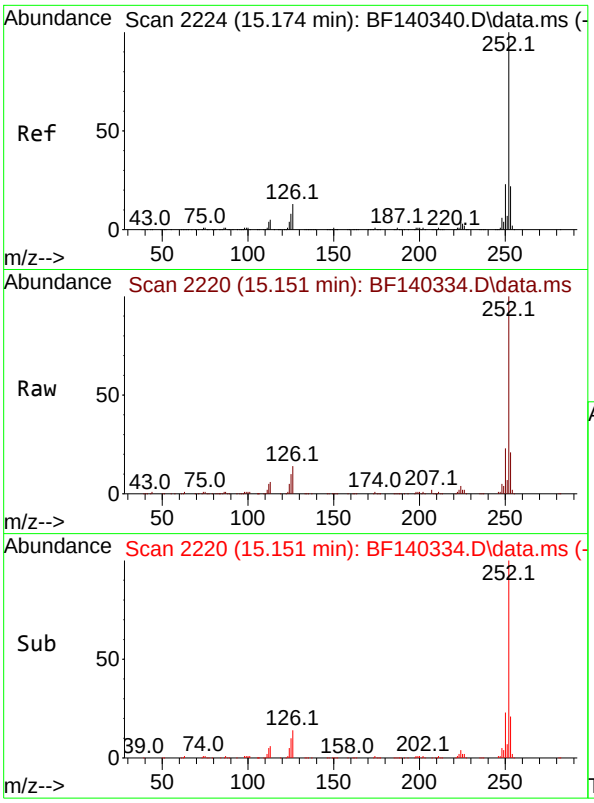


#88
Benzo(b)fluoranthene
Concen: 10.331 ng
RT: 15.127 min Scan# 2216
Delta R.T. 0.012 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:252 Resp: 241957

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	9.4	8.0	12.0

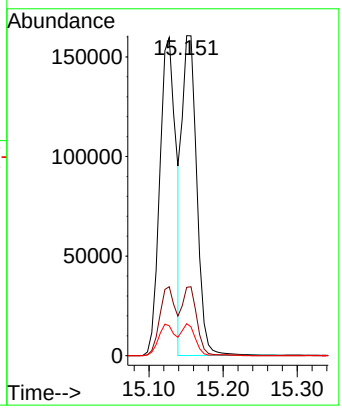




#89
Benzo(k)fluoranthene
Concen: 11.607 ng
RT: 15.151 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:252 Resp: 22208

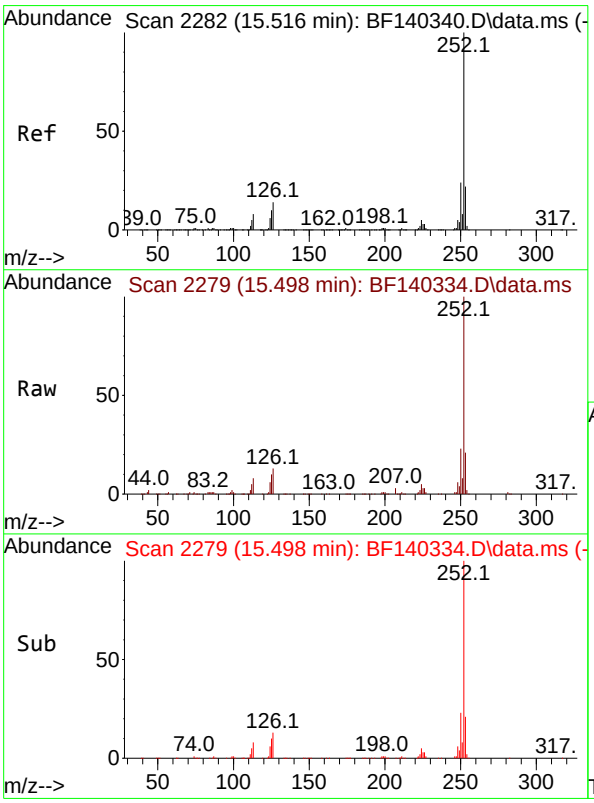
Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.3	25.9
125	10.0	7.4	11.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

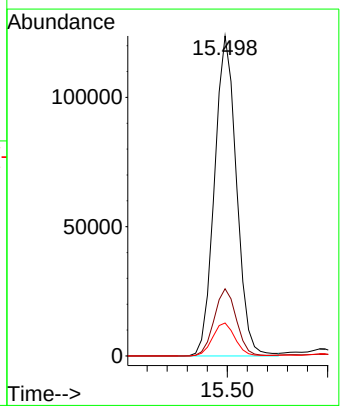
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

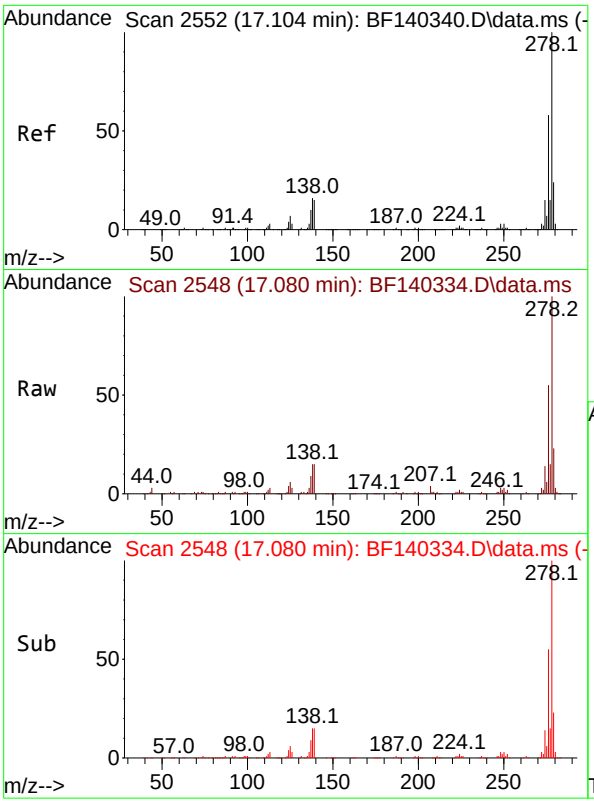


#90
Benzo(a)pyrene
Concen: 10.366 ng
RT: 15.498 min Scan# 2279
Delta R.T. 0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:252 Resp: 188533

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.8	26.6
125	10.3	8.4	12.6

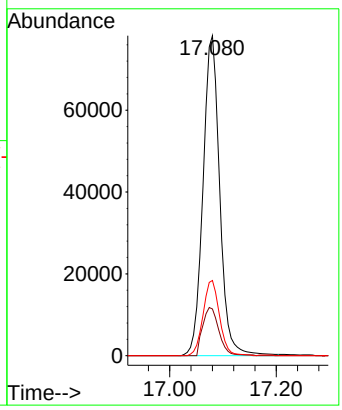




#91
Dibenzo(a,h)anthracene
Concen: 9.326 ng
RT: 17.080 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:278 Resp: 17049

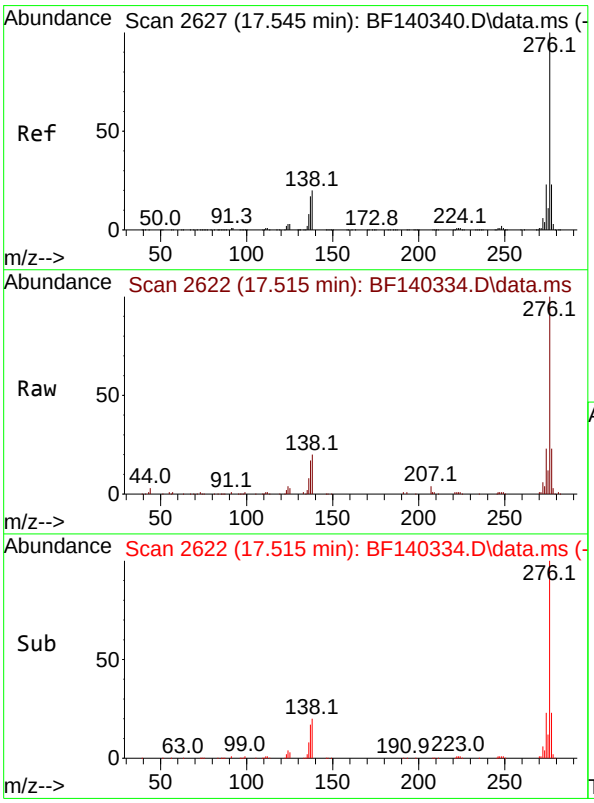
Ion	Ratio	Lower	Upper
278	100		
139	14.6	11.8	17.8
279	23.5	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

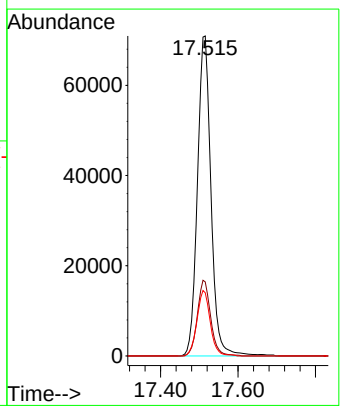
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#92
Benzo(g,h,i)perylene
Concen: 9.221 ng
RT: 17.515 min Scan# 2622
Delta R.T. -0.000 min
Lab File: BF140334.D
Acq: 13 Nov 2024 09:53

Tgt Ion:276 Resp: 172345

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.6	28.0
138	19.7	16.0	24.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140335.D
Acq On : 13 Nov 2024 10:29
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Nov 13 14:24:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	149945	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	574759	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	321015	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	615627	20.000	ng	0.00
76) Chrysene-d12	14.068	240	437725	20.000	ng	0.02
86) Perylene-d12	15.592	264	335998	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	366621	41.746	ng	0.00
7) Phenol-d6	6.498	99	492662	41.406	ng	0.00
23) Nitrobenzene-d5	7.434	82	458389	41.554	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	132693	41.567	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	867449	43.439	ng	0.00
79) Terphenyl-d14	12.986	244	969963	38.464	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	79493	20.309	ng	99
3) Pyridine	3.399	79	198352	20.613	ng	98
4) n-Nitrosodimethylamine	3.340	42	97556	20.059	ng	100
6) Aniline	6.540	93	224200	21.661	ng	96
8) 2-Chlorophenol	6.657	128	199701	21.169	ng	100
9) Benzaldehyde	6.428	77	152483	21.383	ng	99
10) Phenol	6.510	94	261330	20.827	ng	98
11) bis(2-Chloroethyl)ether	6.610	93	195860	20.601	ng	100
12) 1,3-Dichlorobenzene	6.816	146	218012	20.945	ng	99
13) 1,4-Dichlorobenzene	6.892	146	222816	21.112	ng	100
14) 1,2-Dichlorobenzene	7.045	146	209619	21.394	ng	99
15) Benzyl Alcohol	7.010	79	179832	20.978	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	272081	20.718	ng	99
17) 2-Methylphenol	7.122	107	160794	20.720	ng	99
18) Hexachloroethane	7.387	117	82445	21.130	ng	97
19) n-Nitroso-di-n-propyla...	7.281	70	147880	20.578	ng	99
20) 3+4-Methylphenols	7.275	107	203732	20.992	ng	97
22) Acetophenone	7.281	105	276331	20.672	ng	98
24) Nitrobenzene	7.457	77	233182	20.302	ng	99
25) Isophorone	7.692	82	397520	20.333	ng	100
26) 2-Nitrophenol	7.769	139	104117	20.428	ng	97
27) 2,4-Dimethylphenol	7.804	122	133218	20.416	ng	99
28) bis(2-Chloroethoxy)met...	7.904	93	246864	20.593	ng	100
29) 2,4-Dichlorophenol	8.010	162	165159	20.480	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	187022	20.831	ng	98
31) Naphthalene	8.181	128	611395	20.969	ng	100
32) Benzoic acid	7.898	122	103495	18.055	ng	98
33) 4-Chloroaniline	8.222	127	212489	20.956	ng	99
34) Hexachlorobutadiene	8.292	225	120624	21.087	ng	100
35) Caprolactam	8.575	113	54033	19.929	ng	100
36) 4-Chloro-3-methylphenol	8.698	107	183923	20.581	ng	99
37) 2-Methylnaphthalene	8.869	142	392634	21.001	ng	100
38) 1-Methylnaphthalene	8.969	142	386754	21.125	ng	98
40) 1,2,4,5-Tetrachloroben...	9.034	216	187279	21.097	ng	99
41) Hexachlorocyclopentadiene	9.022	237	45811	20.099	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	120063	20.609	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140335.D
Acq On : 13 Nov 2024 10:29
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Nov 13 14:24:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	132413	20.789	ng	98
46) 1,1'-Biphenyl	9.333	154	502252	21.506	ng	99
47) 2-Chloronaphthalene	9.357	162	368985	20.741	ng	99
48) 2-Nitroaniline	9.451	65	123220	20.885	ng	98
49) Acenaphthylene	9.775	152	573335	21.301	ng	99
50) Dimethylphthalate	9.628	163	440050	21.031	ng	100
51) 2,6-Dinitrotoluene	9.692	165	100599	21.089	ng	99
52) Acenaphthene	9.945	154	382783	21.056	ng	100
53) 3-Nitroaniline	9.863	138	107540	21.467	ng	99
54) 2,4-Dinitrophenol	9.969	184	47413	19.274	ng	96
55) Dibenzofuran	10.116	168	550502	21.391	ng	99
56) 4-Nitrophenol	10.016	139	76711	20.993	ng	99
57) 2,4-Dinitrotoluene	10.098	165	133852	21.321	ng	96
58) Fluorene	10.463	166	438095	21.548	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.233	232	104638	20.824	ng	98
60) Diethylphthalate	10.328	149	448855	20.979	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	214868	21.407	ng	100
62) 4-Nitroaniline	10.475	138	105392	20.576	ng	99
63) Azobenzene	10.610	77	443044	20.957	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	69851	21.089	ng	99
66) n-Nitrosodiphenylamine	10.569	169	369633	20.780	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	128501	20.881	ng	97
68) Hexachlorobenzene	11.010	284	143099	20.667	ng	98
69) Atrazine	11.092	200	83124	15.446	ng	98
70) Pentachlorophenol	11.204	266	76218	20.435	ng	99
71) Phenanthrene	11.422	178	606738	20.980	ng	100
72) Anthracene	11.475	178	594950	20.991	ng	99
73) Carbazole	11.627	167	592904	21.186	ng	100
74) Di-n-butylphthalate	11.957	149	707973	21.077	ng	100
75) Fluoranthene	12.616	202	702671	21.657	ng	99
77) Benzidine	12.733	184	299422	17.823	ng	100
78) Pyrene	12.845	202	719319	19.212	ng	99
80) Butylbenzylphthalate	13.463	149	286162	19.895	ng	98
81) Benzo(a)anthracene	14.051	228	591480	20.560	ng	99
82) 3,3'-Dichlorobenzidine	14.016	252	189466	20.720	ng	99
83) Chrysene	14.092	228	540430	20.589	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	392830	20.462	ng	99
85) Di-n-octyl phthalate	14.692	149	556097	20.567	ng	99
87) Indeno(1,2,3-cd)pyrene	17.092	276	382218	18.415	ng	99
88) Benzo(b)fluoranthene	15.151	252	494335	22.491	ng	99
89) Benzo(k)fluoranthene	15.180	252	376428	20.964	ng	99
90) Benzo(a)pyrene	15.527	252	354286	20.757	ng	99
91) Dibenzo(a,h)anthracene	17.109	278	317133	18.485	ng	99
92) Benzo(g,h,i)perylene	17.545	276	320648	18.281	ng	99

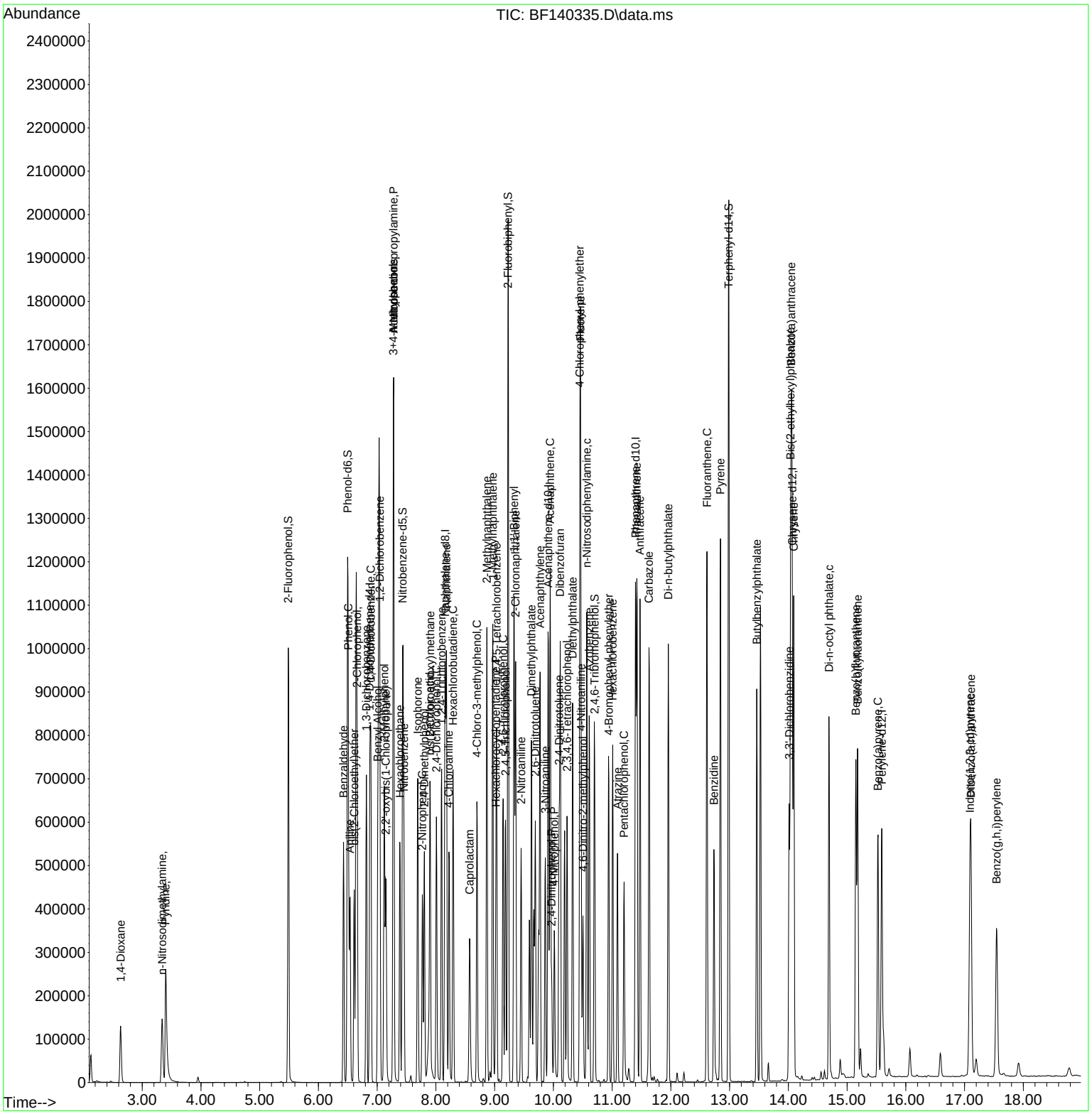
(#) = qualifier out of range (m) = manual integration (+) = signals summed

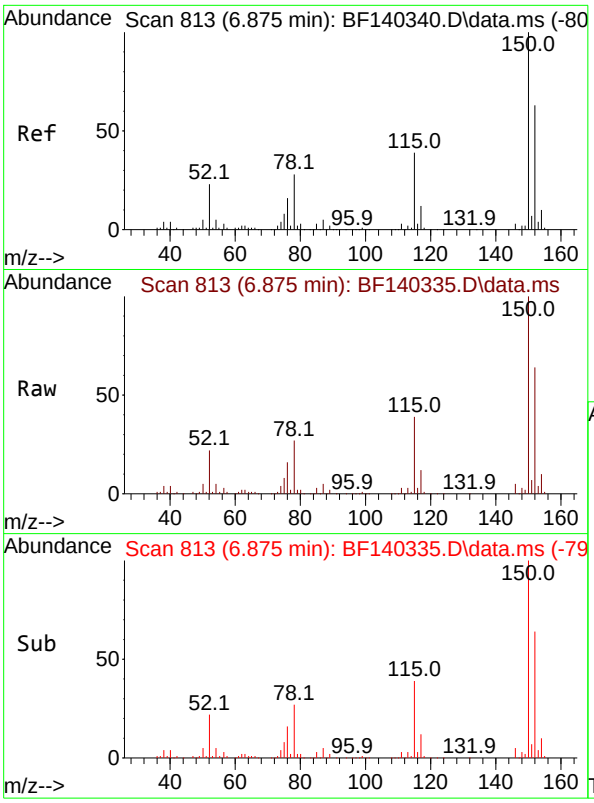
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140335.D
Acq On : 13 Nov 2024 10:29
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Nov 13 14:24:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



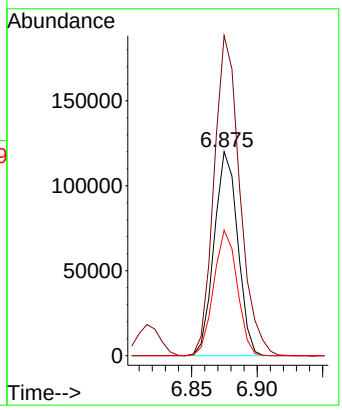


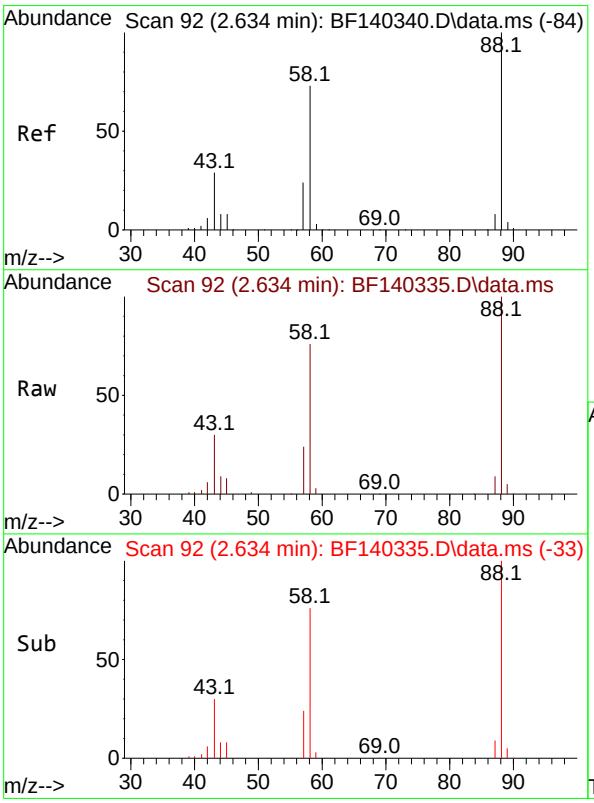
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 149945

Ion	Ratio	Lower	Upper
152	100		
150	156.8	127.4	191.0
115	61.5	47.4	71.2

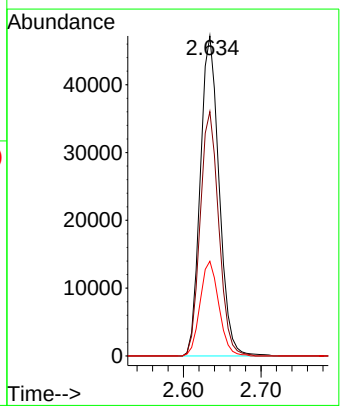


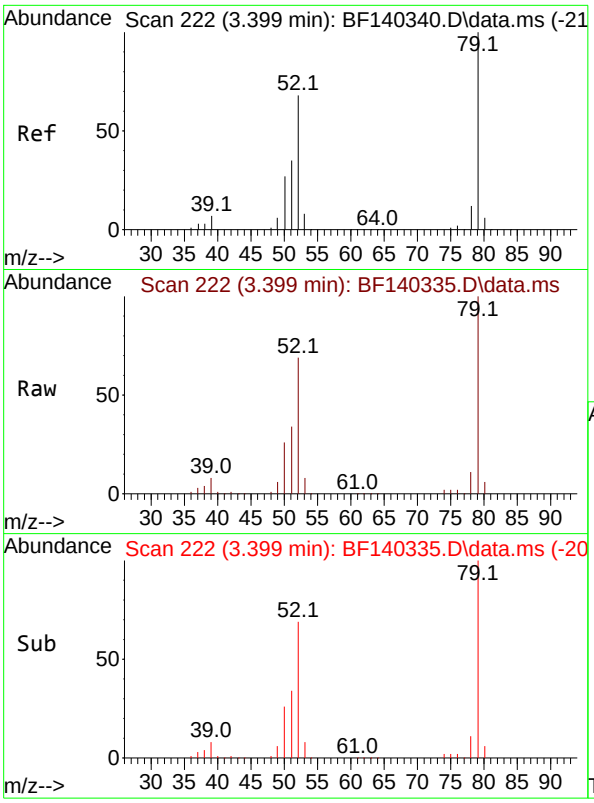


#2
1,4-Dioxane
Concen: 20.309 ng
RT: 2.634 min Scan# 92
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion: 88 Resp: 79493

Ion	Ratio	Lower	Upper
88	100		
58	75.4	59.5	89.3
43	29.5	23.4	35.2



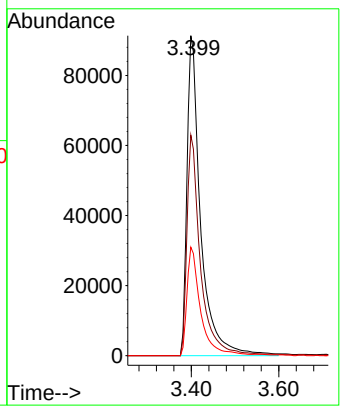


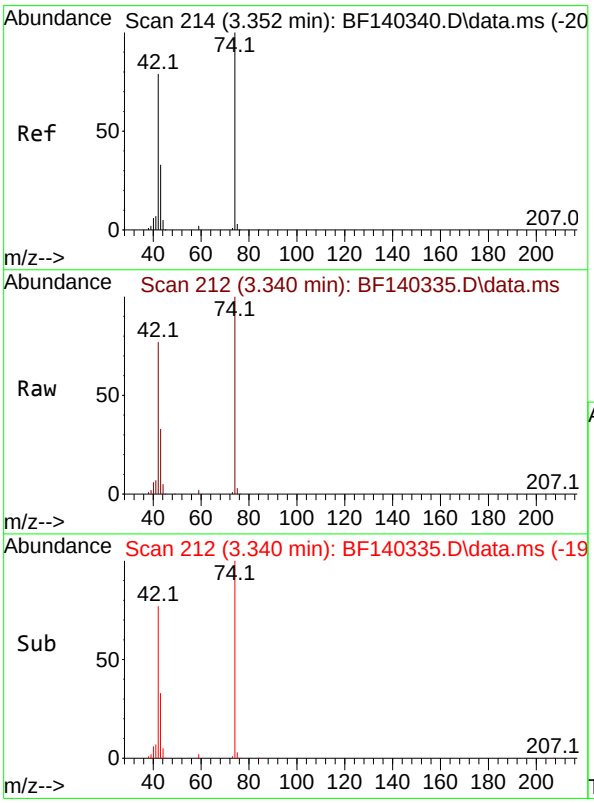
#3
Pyridine
Concen: 20.613 ng
RT: 3.399 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 198352

Ion	Ratio	Lower	Upper
79	100		
52	68.9	53.8	80.6
51	33.9	27.3	40.9

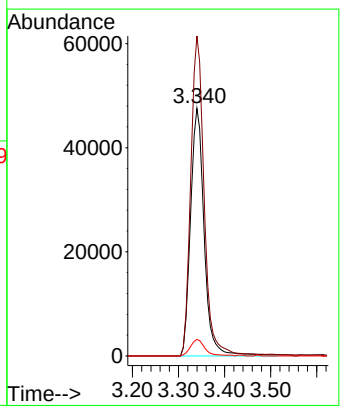


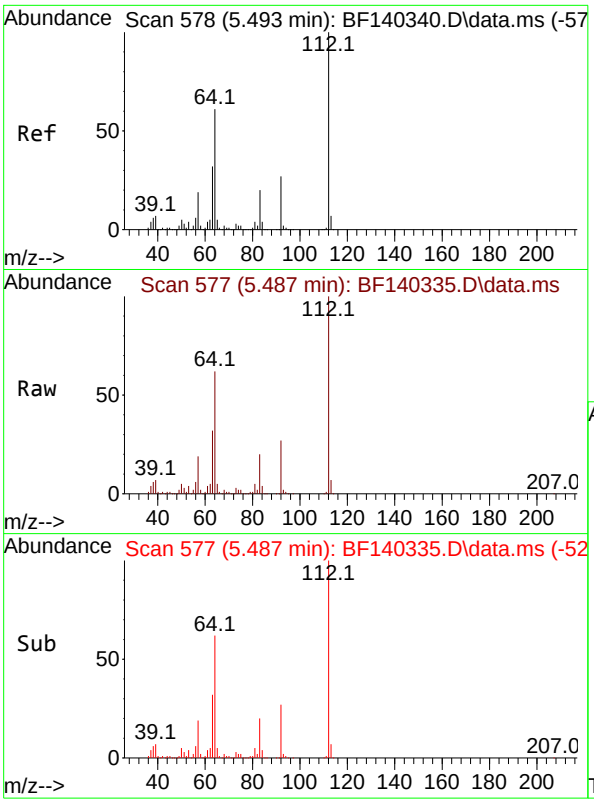


#4
n-Nitrosodimethylamine
Concen: 20.059 ng
RT: 3.340 min Scan# 212
Delta R.T. -0.018 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion: 42 Resp: 97556

Ion	Ratio	Lower	Upper
42	100		
74	129.3	103.5	155.3
44	6.7	5.1	7.7



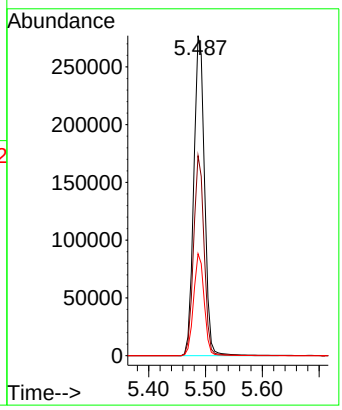


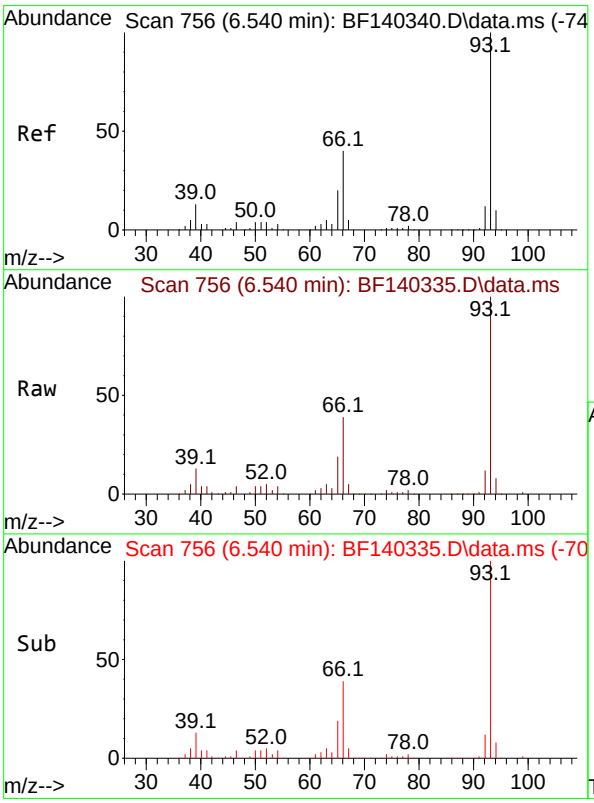
#5
2-Fluorophenol
Concen: 41.746 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 366621

Ion	Ratio	Lower	Upper
112	100		
64	62.5	49.2	73.8
63	31.9	25.6	38.4

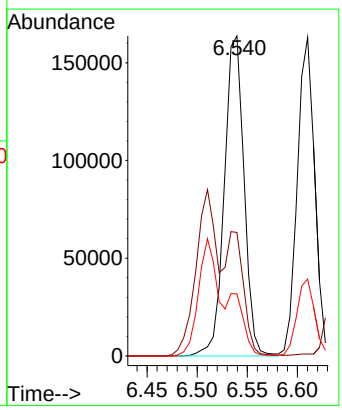


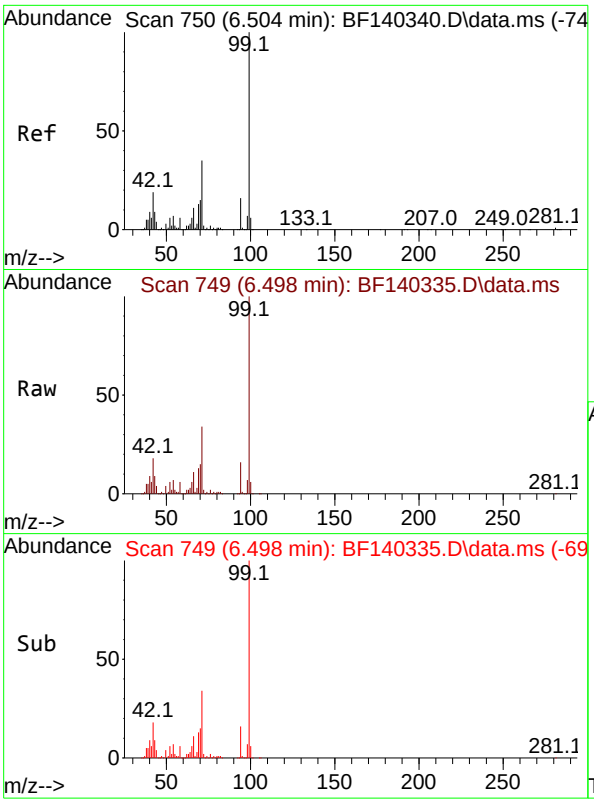


#6
Aniline
Concen: 21.661 ng
RT: 6.540 min Scan# 756
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion: 93 Resp: 224200

Ion	Ratio	Lower	Upper
93	100		
66	38.6	32.8	49.2
65	19.4	16.6	25.0



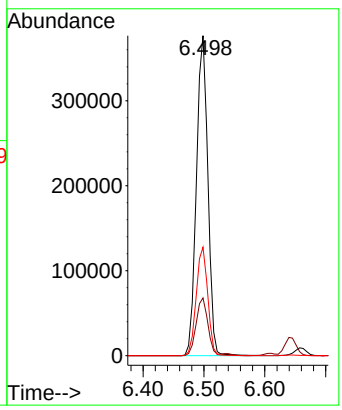


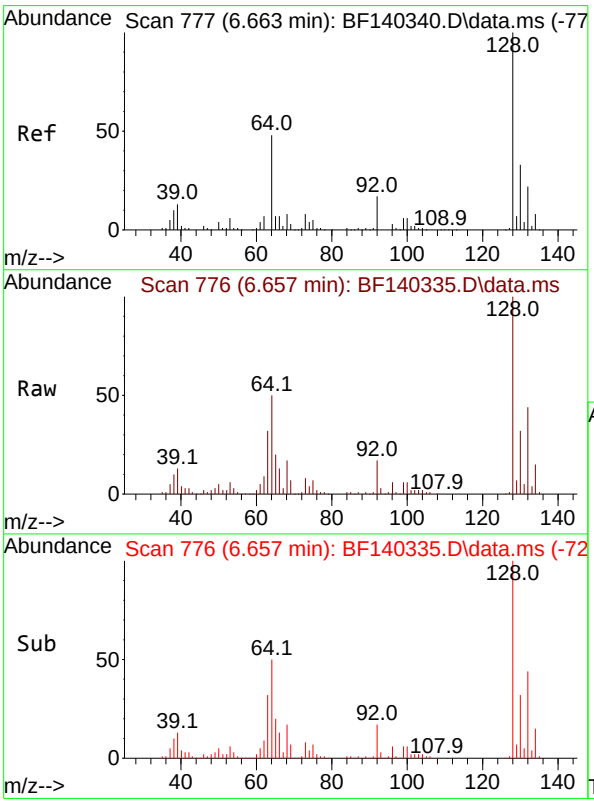
#7
Phenol-d6
Concen: 41.406 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 492662

Ion	Ratio	Lower	Upper
99	100		
42	18.1	15.1	22.7
71	33.9	27.9	41.9

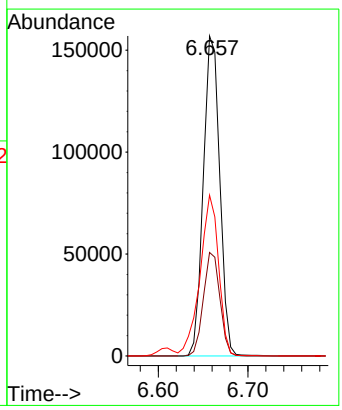


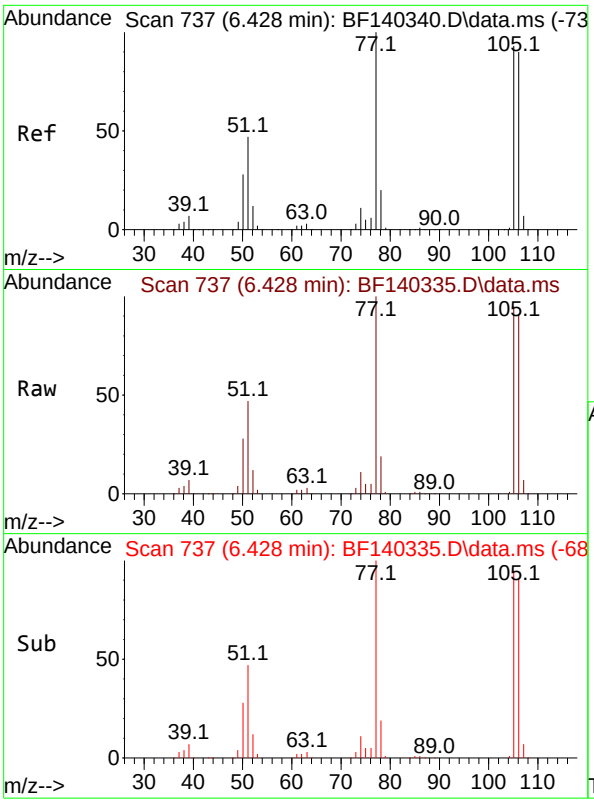


#8
2-Chlorophenol
Concen: 21.169 ng
RT: 6.657 min Scan# 776
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:128 Resp: 199701

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.2	52.2
64	50.2	30.2	70.2



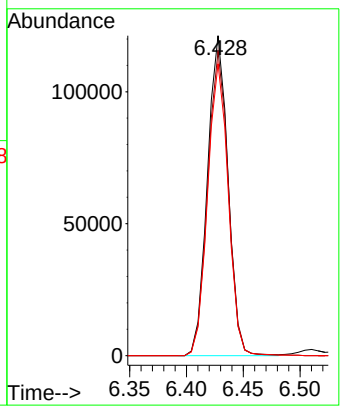


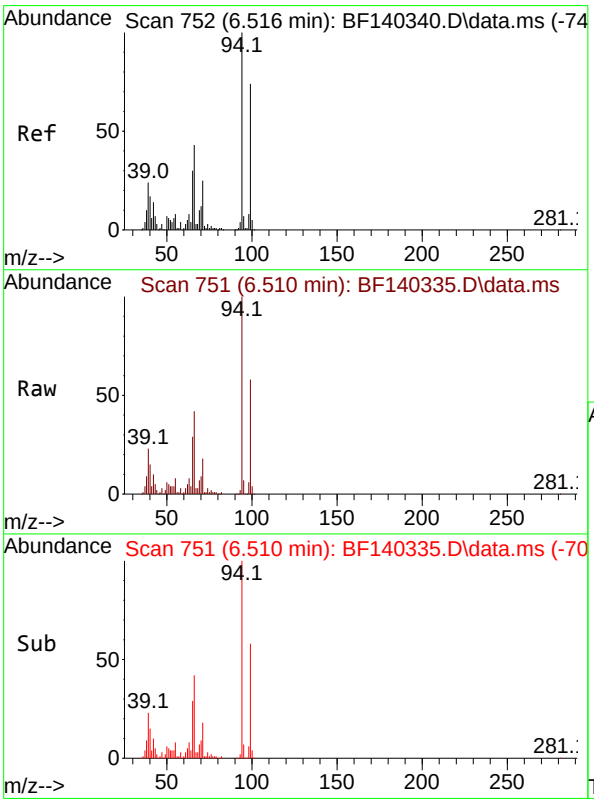
#9
Benzaldehyde
Concen: 21.383 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 152483

Ion	Ratio	Lower	Upper
77	100		
105	95.0	74.4	114.4
106	91.2	69.9	109.9

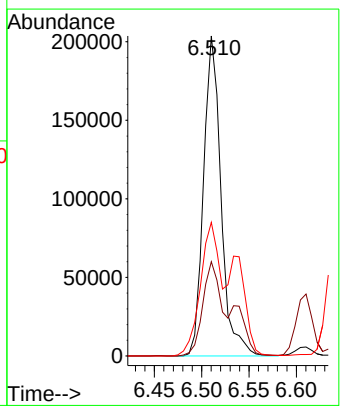


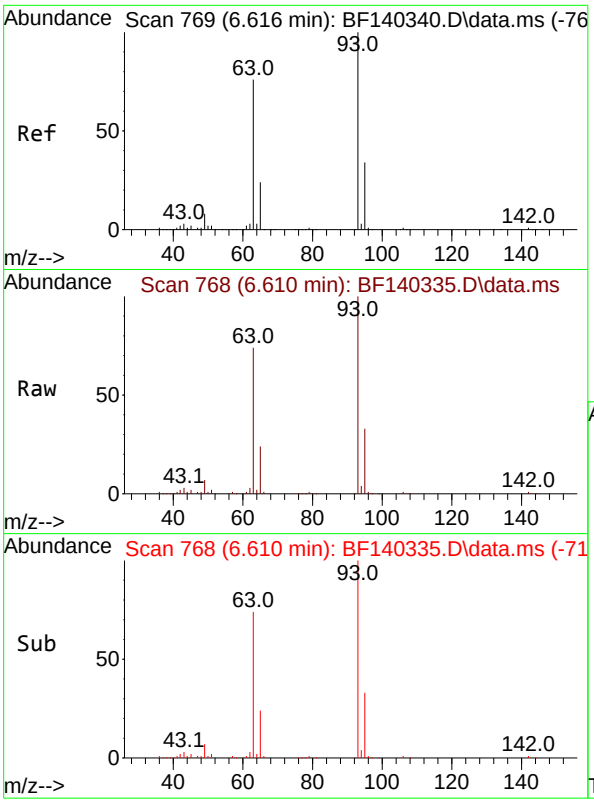


#10
Phenol
Concen: 20.827 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.012 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion: 94 Resp: 261330

Ion	Ratio	Lower	Upper
94	100		
65	29.4	10.4	50.4
66	41.8	22.9	62.9



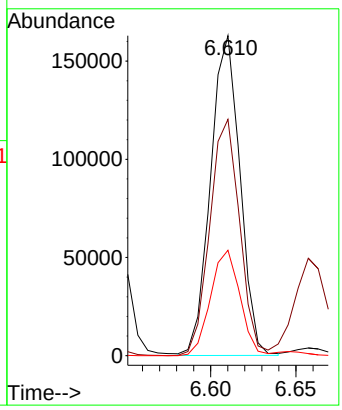


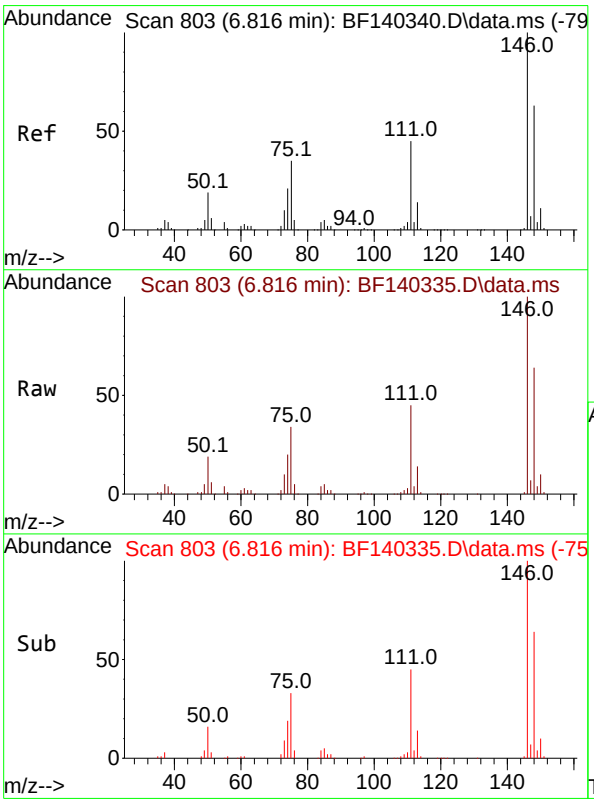
#11
bis(2-Chloroethyl)ether
Concen: 20.601 ng
RT: 6.610 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 195860

Ion	Ratio	Lower	Upper
93	100		
63	73.8	54.0	94.0
95	32.9	12.9	52.9

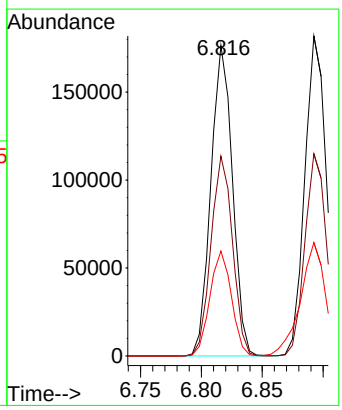


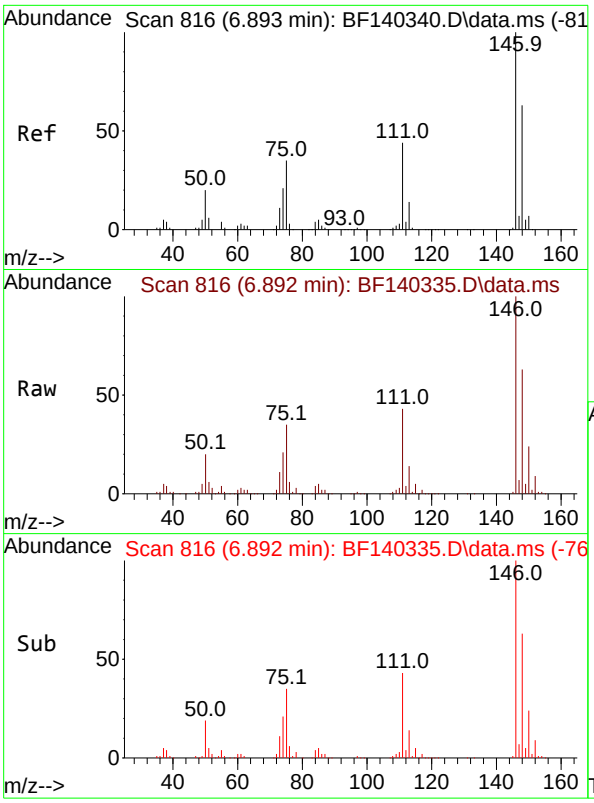


#12
1,3-Dichlorobenzene
Concen: 20.945 ng
RT: 6.816 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:146 Resp: 218012

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.7	76.1
75	33.8	26.4	39.6



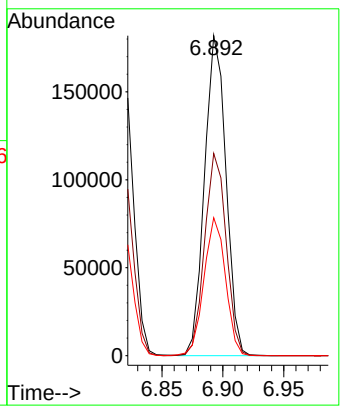


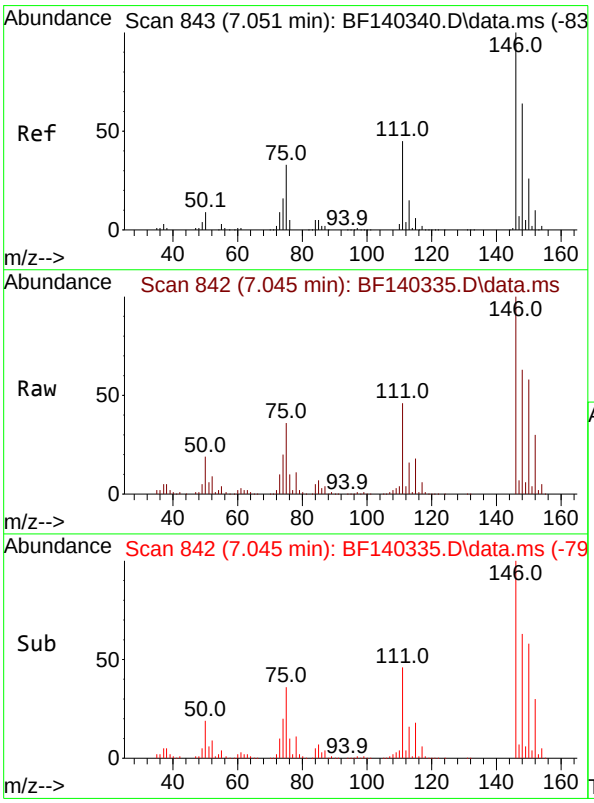
#13
1,4-Dichlorobenzene
Concen: 21.112 ng
RT: 6.892 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 222816

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.8	76.2
111	43.1	34.2	51.2

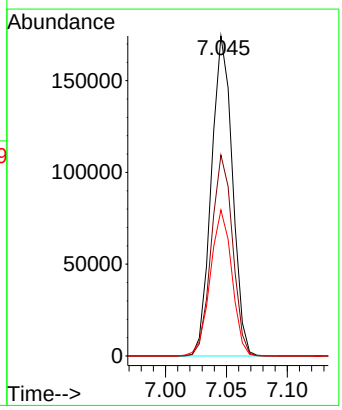


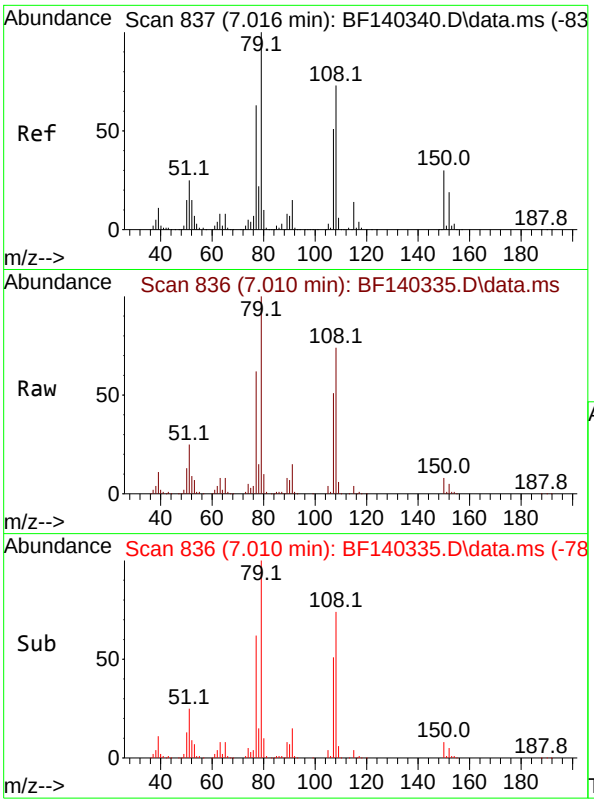


#14
1,2-Dichlorobenzene
Concen: 21.394 ng
RT: 7.045 min Scan# 842
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:146 Resp: 209619

Ion	Ratio	Lower	Upper
146	100		
148	62.8	51.2	76.8
111	45.6	36.5	54.7



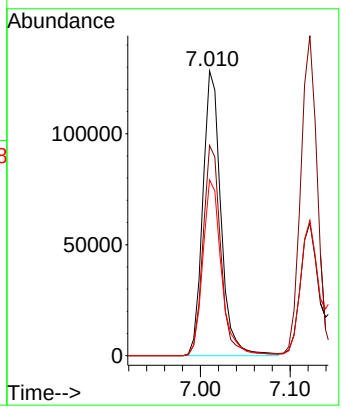


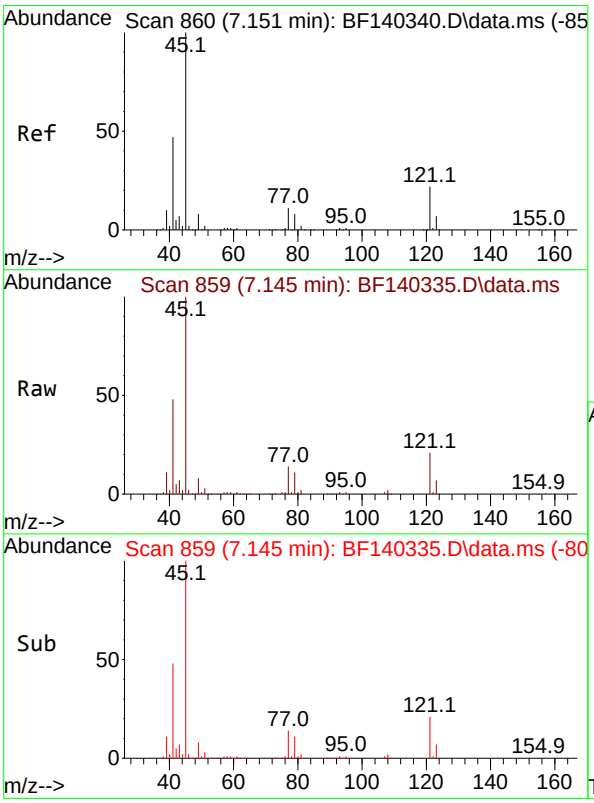
#15
Benzyl Alcohol
Concen: 20.978 ng
RT: 7.010 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 179832

Ion	Ratio	Lower	Upper
79	100		
108	73.8	57.8	86.6
77	61.8	49.8	74.6

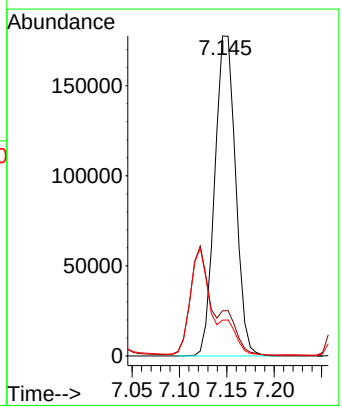


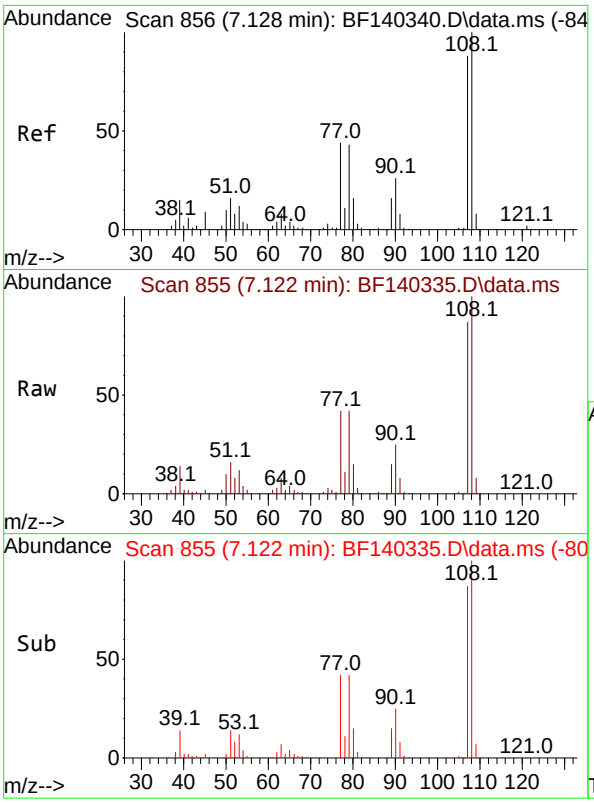


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.718 ng
RT: 7.145 min Scan# 859
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion: 45 Resp: 272081

Ion	Ratio	Lower	Upper
45	100		
77	14.1	0.0	34.8
79	11.2	0.0	31.4



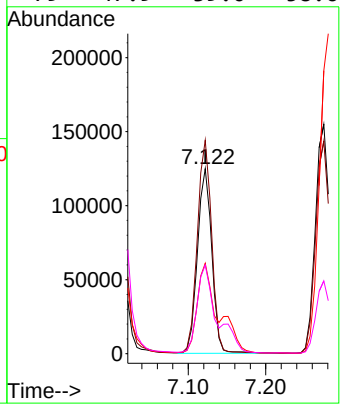


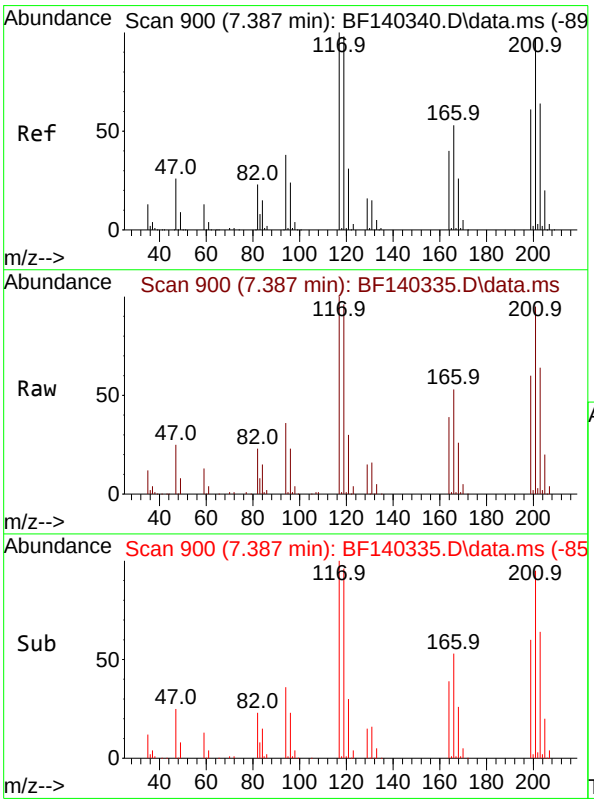
#17
2-Methylphenol
Concen: 20.720 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 160794

Ion	Ratio	Lower	Upper
107	100		
108	115.4	91.9	137.9
77	48.8	39.7	59.5
79	47.9	39.0	58.6

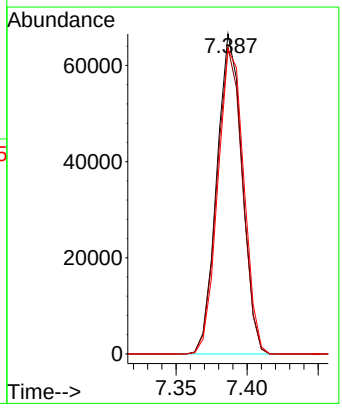


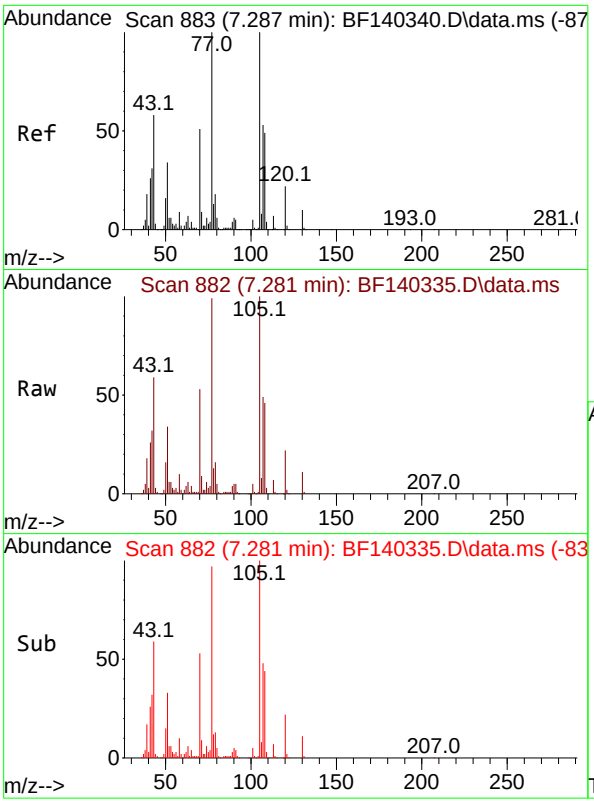


#18
Hexachloroethane
Concen: 21.130 ng
RT: 7.387 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:117 Resp: 82445

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.9	115.3
201	95.3	80.2	120.4



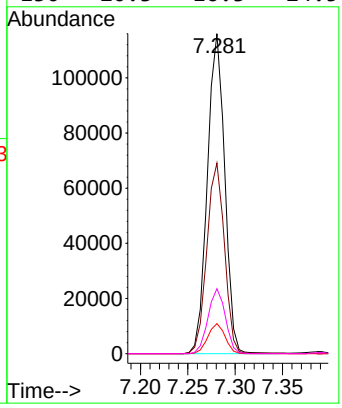


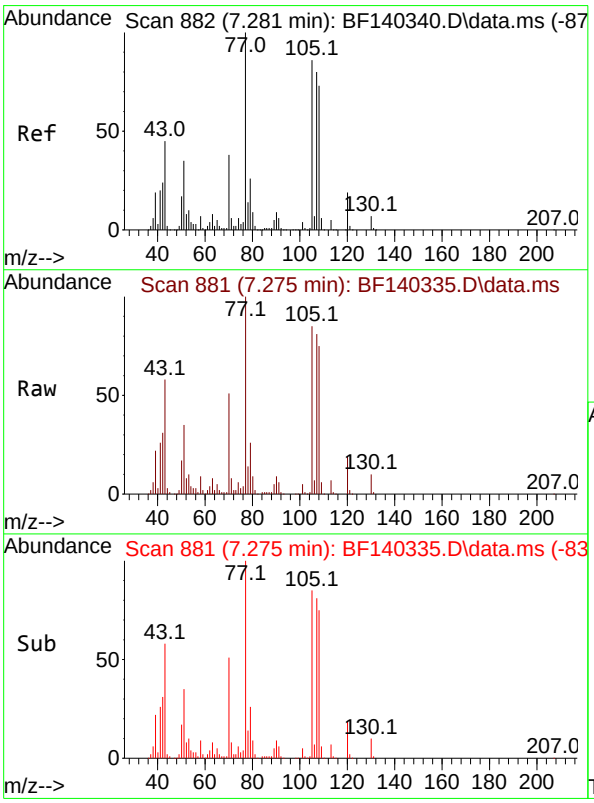
#19
n-Nitroso-di-n-propylamine
Concen: 20.578 ng
RT: 7.281 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 147880

Ion	Ratio	Lower	Upper
70	100		
42	59.5	46.8	70.2
101	9.4	7.5	11.3
130	20.3	16.3	24.5

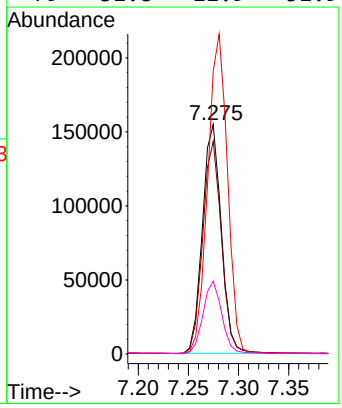


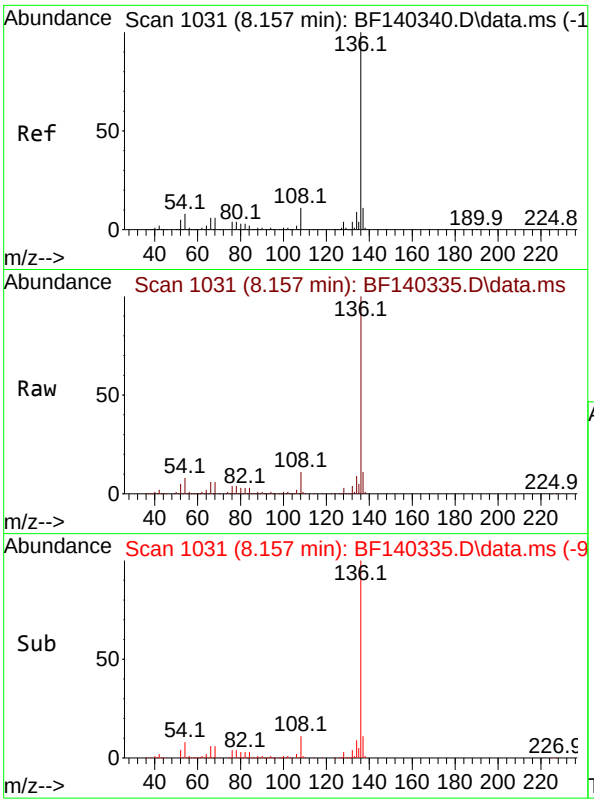


#20
3+4-Methylphenols
Concen: 20.992 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:107 Resp: 203732

Ion	Ratio	Lower	Upper
107	100		
108	92.7	71.4	111.4
77	123.3	97.0	137.0
79	31.8	11.9	51.9



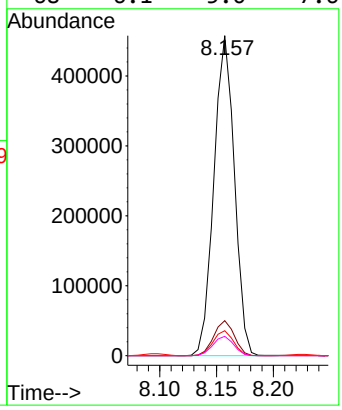


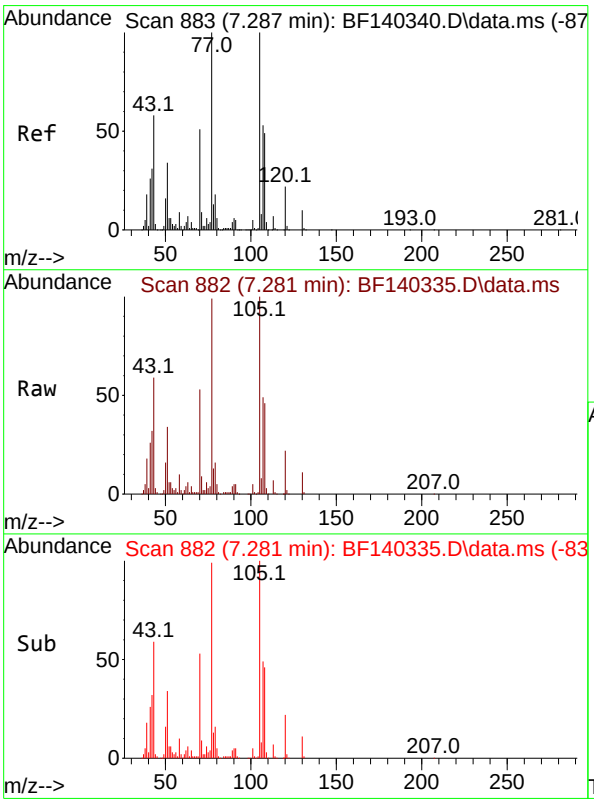
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 574759

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	7.8	6.5	9.7
68	6.1	5.0	7.6

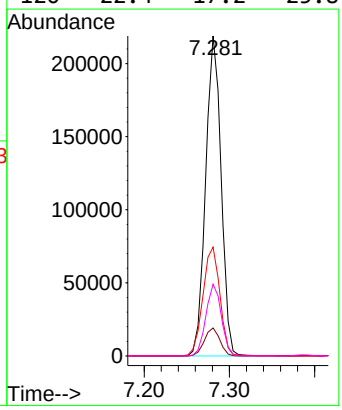


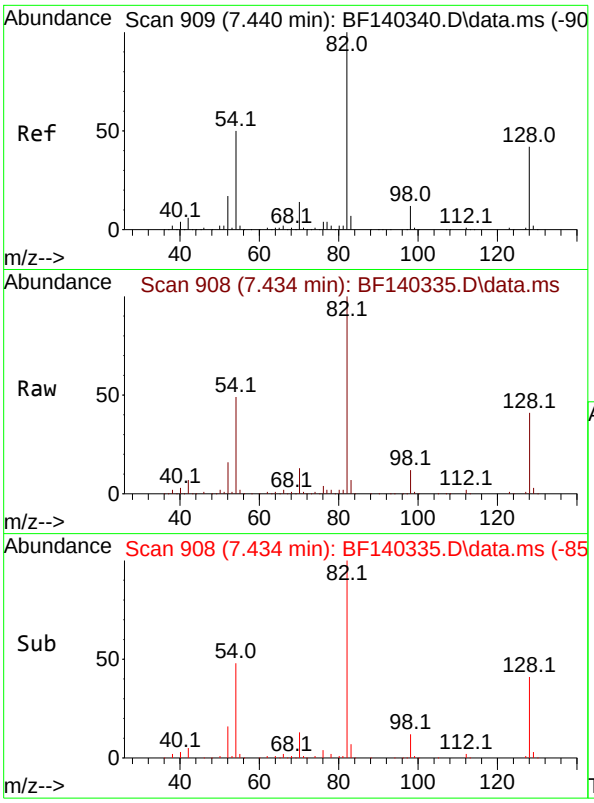


#22
Acetophenone
Concen: 20.672 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:105 Resp: 276331

Ion	Ratio	Lower	Upper
105	100		
71	8.8	6.9	10.3
51	34.0	28.6	43.0
120	22.4	17.2	25.8



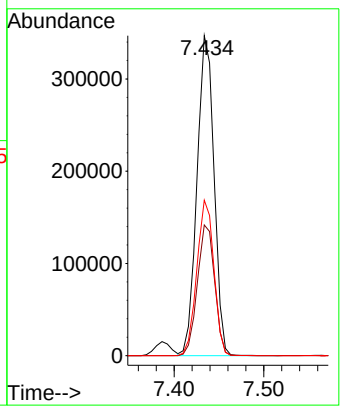


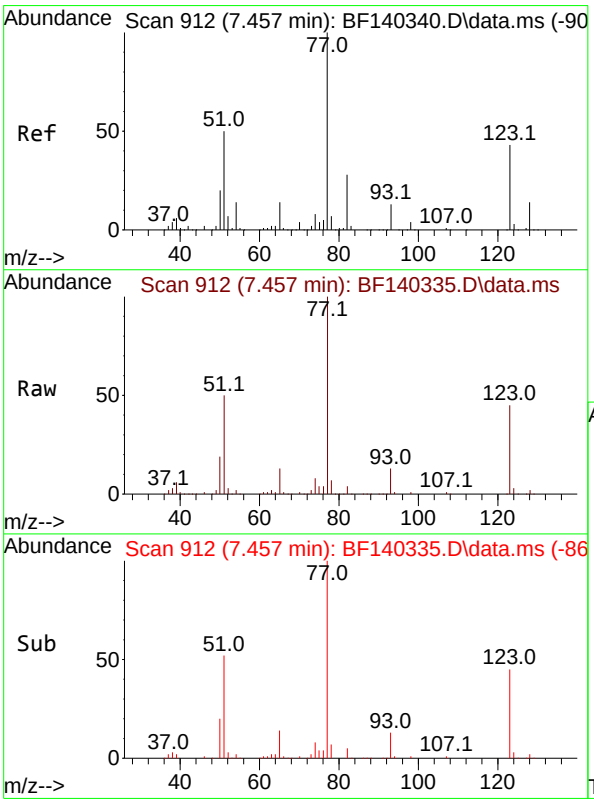
#23
Nitrobenzene-d5
Concen: 41.554 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 458389

Ion	Ratio	Lower	Upper
82	100		
128	40.9	33.3	49.9
54	48.6	39.8	59.8

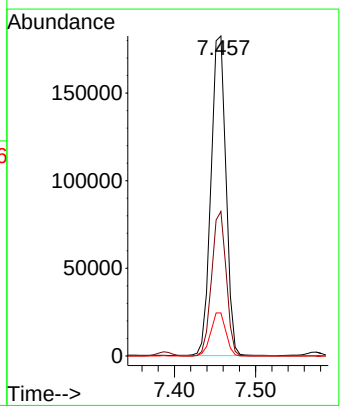


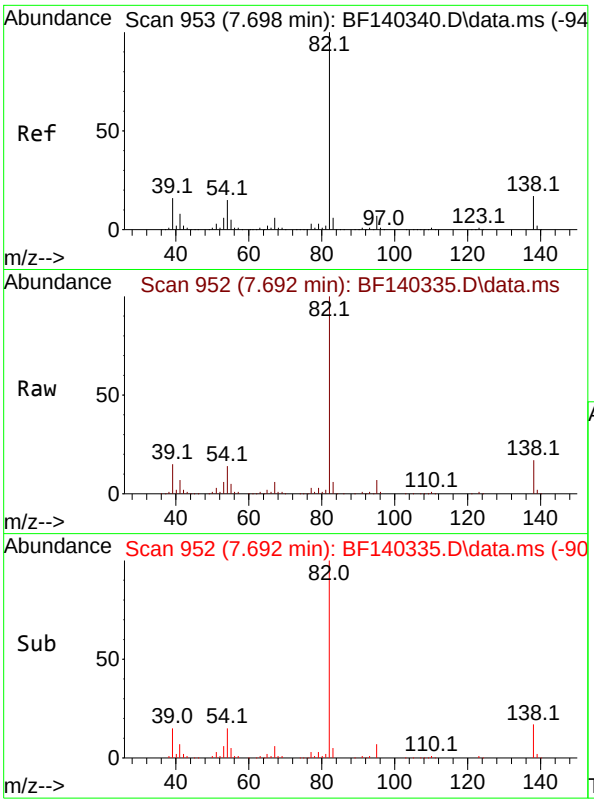


#24
Nitrobenzene
Concen: 20.302 ng
RT: 7.457 min Scan# 912
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion: 77 Resp: 233182

Ion	Ratio	Lower	Upper
77	100		
123	45.1	35.4	53.0
65	13.4	11.1	16.7



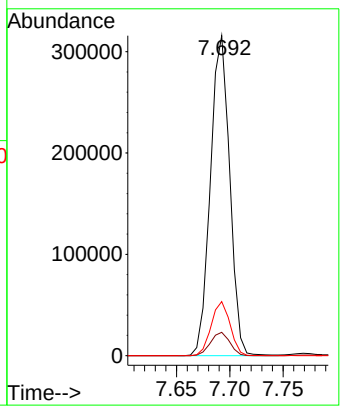


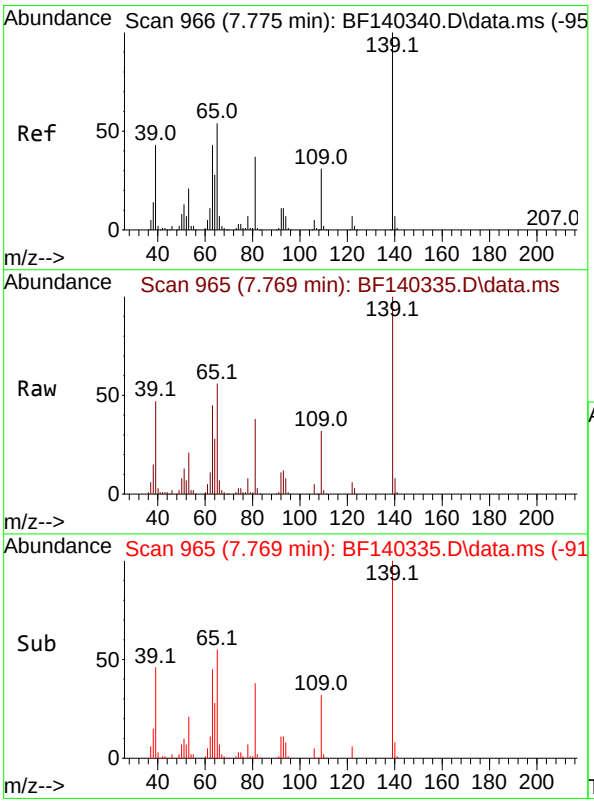
#25
Isophorone
Concen: 20.333 ng
RT: 7.692 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 397520

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.9	8.9
138	16.9	13.4	20.2

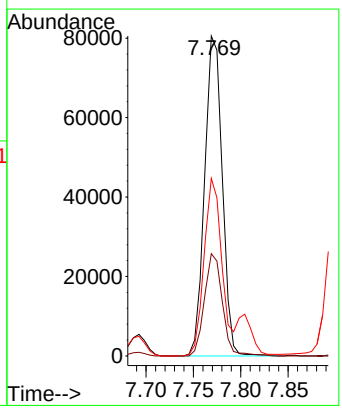


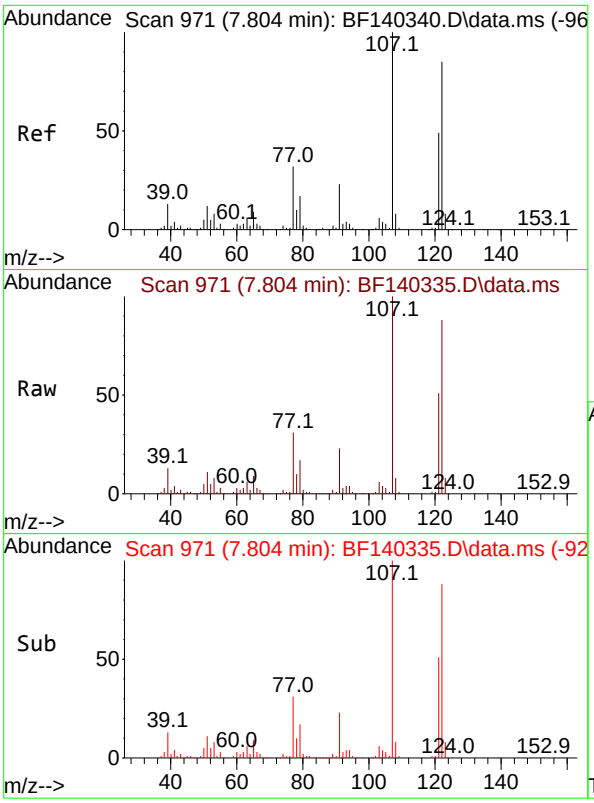


#26
2-Nitrophenol
Concen: 20.428 ng
RT: 7.769 min Scan# 965
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:139 Resp: 104117

Ion	Ratio	Lower	Upper
139	100		
109	31.9	24.4	36.6
65	55.5	42.8	64.2



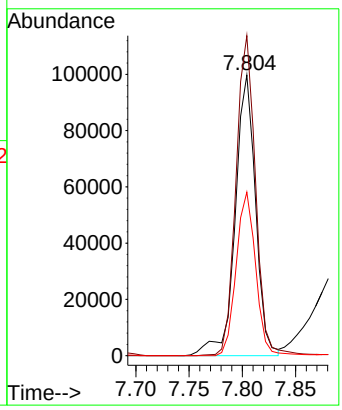


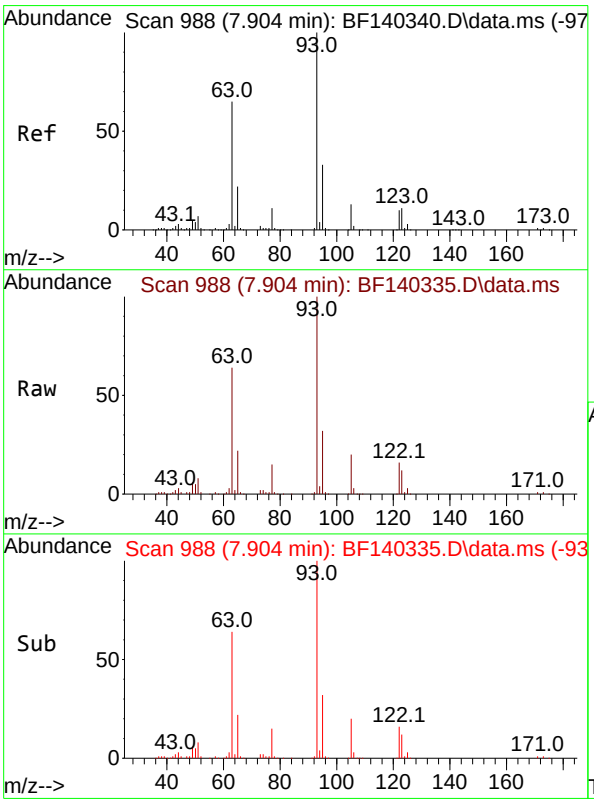
#27
2,4-Dimethylphenol
Concen: 20.416 ng
RT: 7.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 133218

Ion	Ratio	Lower	Upper
122	100		
107	114.0	91.3	136.9
121	58.2	45.5	68.3

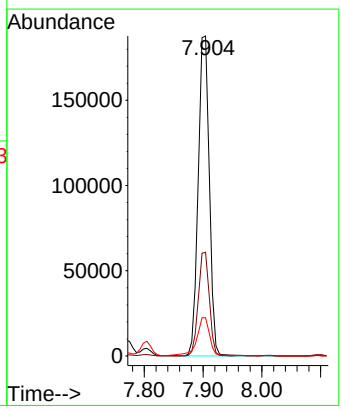


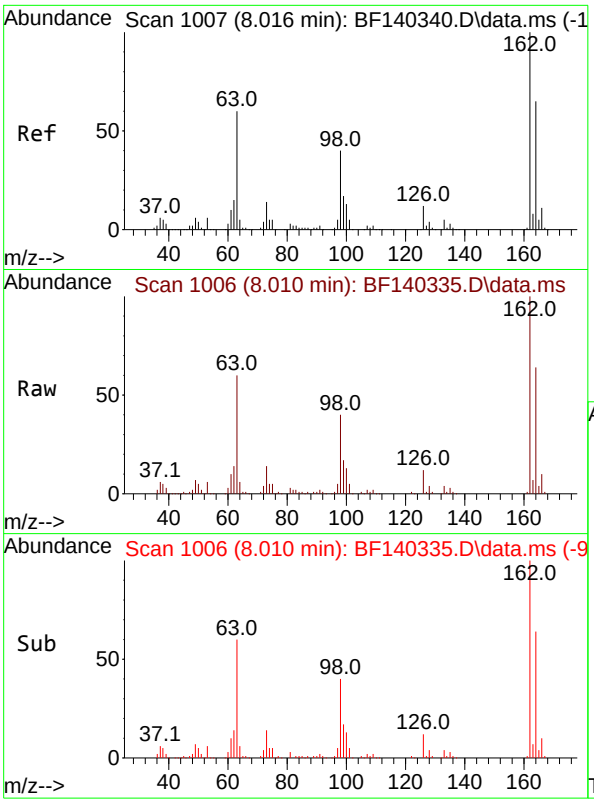


#28
bis(2-Chloroethoxy)methane
Concen: 20.593 ng
RT: 7.904 min Scan# 988
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion: 93 Resp: 246864

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.9	38.9
123	12.0	9.2	13.8



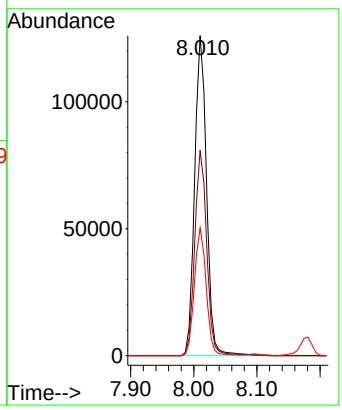


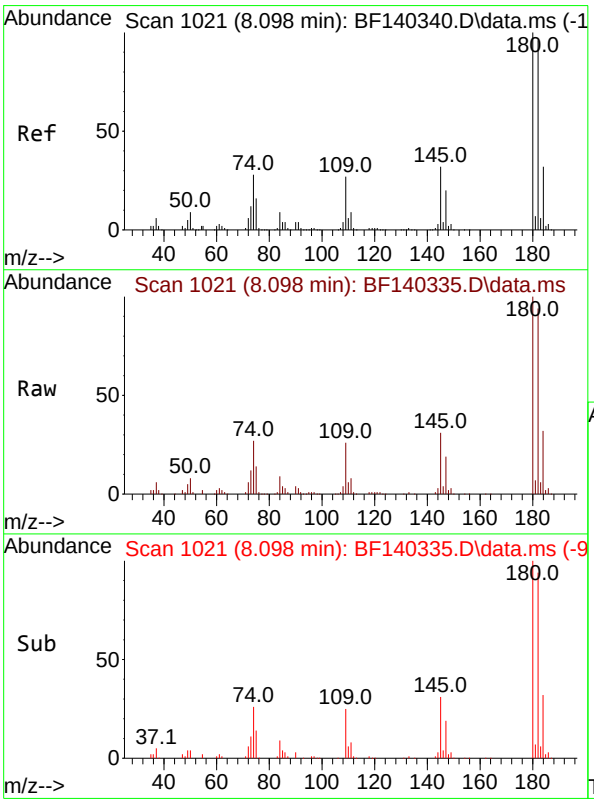
#29
2,4-Dichlorophenol
Concen: 20.480 ng
RT: 8.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 165159

Ion	Ratio	Lower	Upper
162	100		
164	64.1	45.4	85.4
98	39.9	19.9	59.9

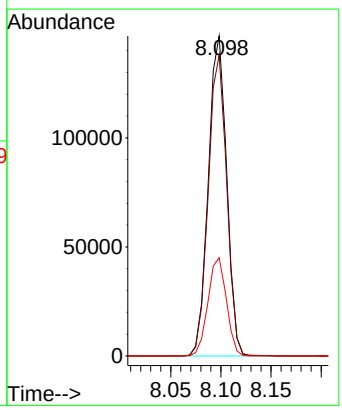


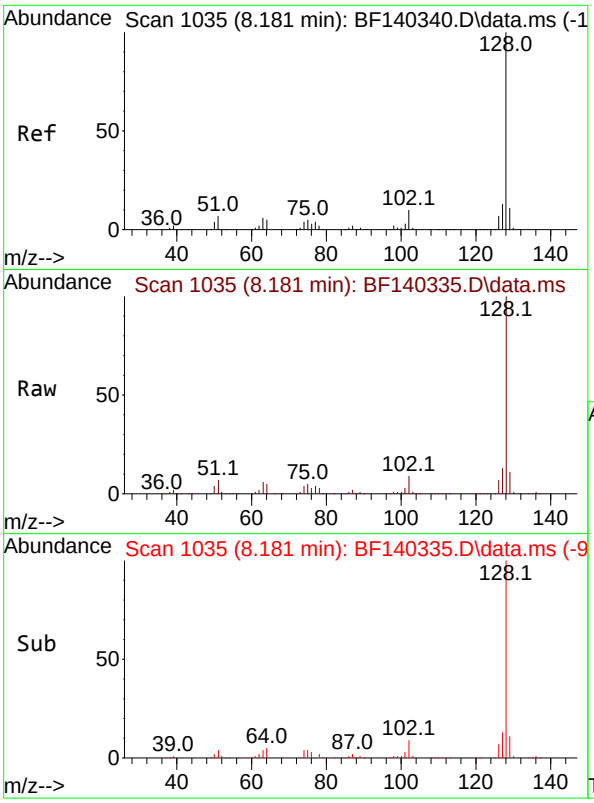


#30
1,2,4-Trichlorobenzene
Concen: 20.831 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:180 Resp: 187022

Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.5	114.7
145	30.7	25.3	37.9



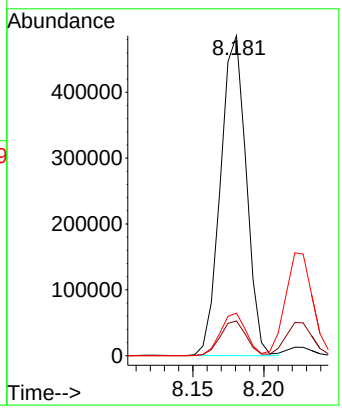


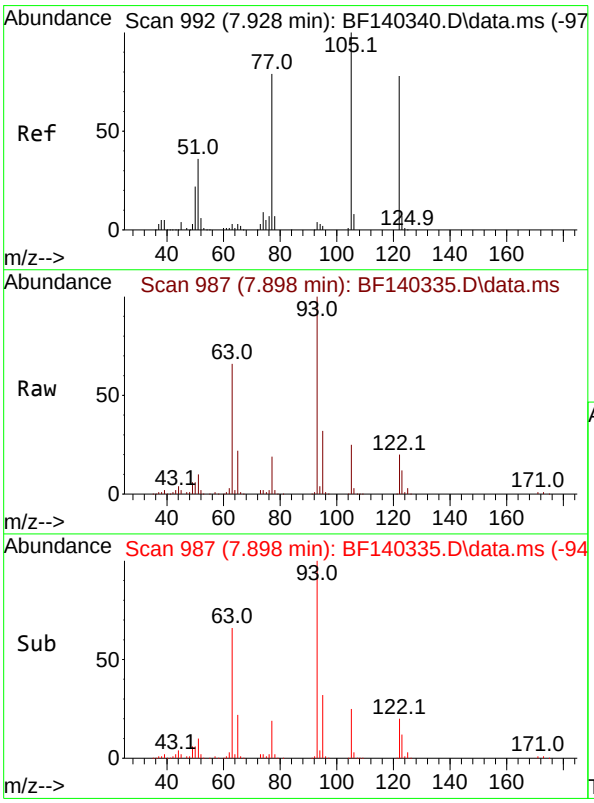
#31
Naphthalene
Concen: 20.969 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 611395

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

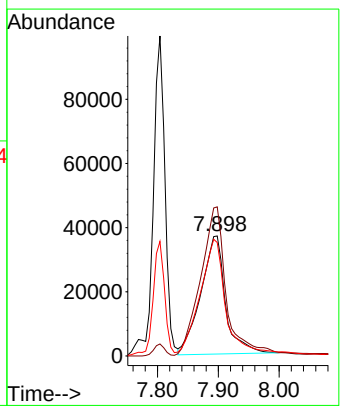


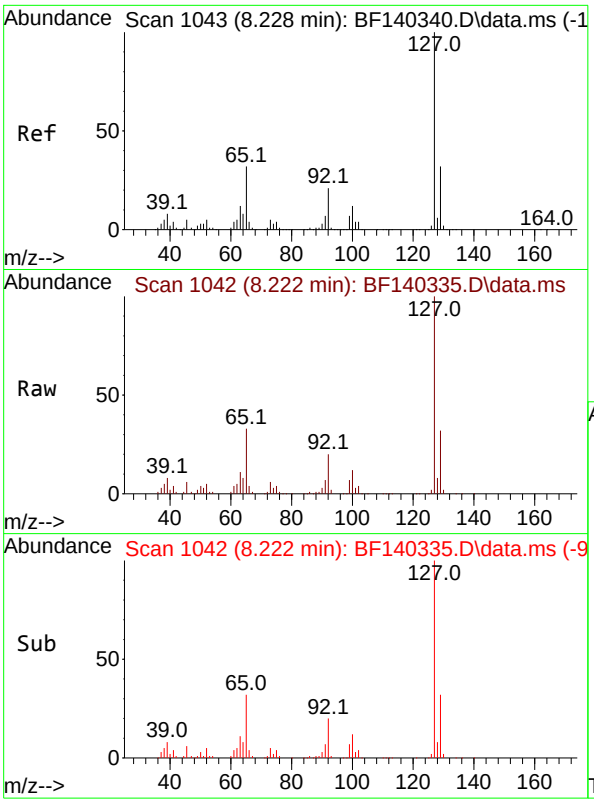


#32
Benzoic acid
Concen: 18.055 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.029 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:122 Resp: 103495

Ion	Ratio	Lower	Upper
122	100		
105	124.2	100.9	140.9
77	94.4	76.0	116.0



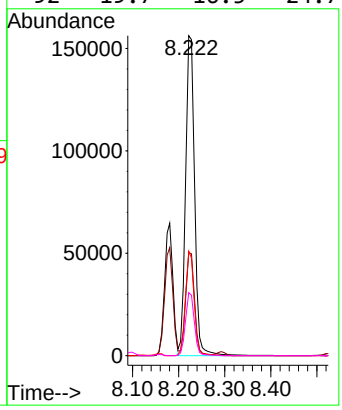


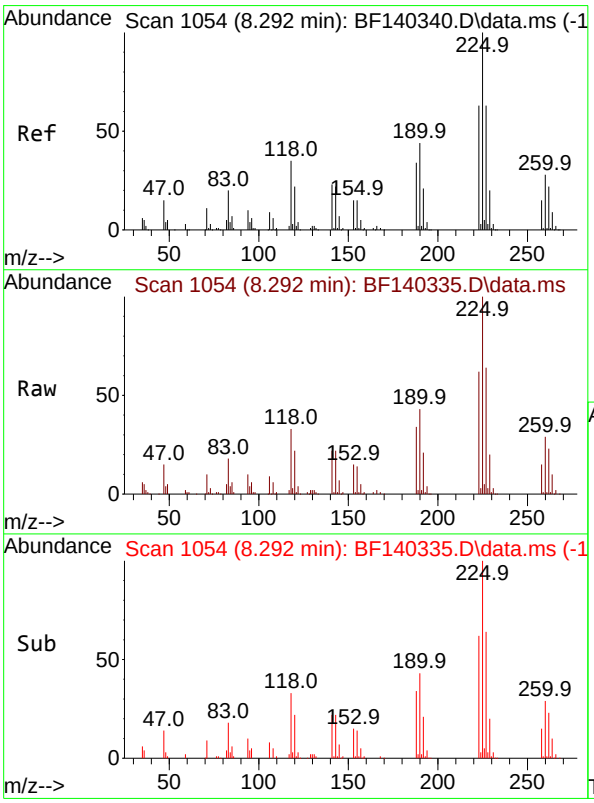
#33
4-Chloroaniline
Concen: 20.956 ng
RT: 8.222 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 212489

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.2	39.4
65	32.7	25.8	38.6
92	19.7	16.5	24.7

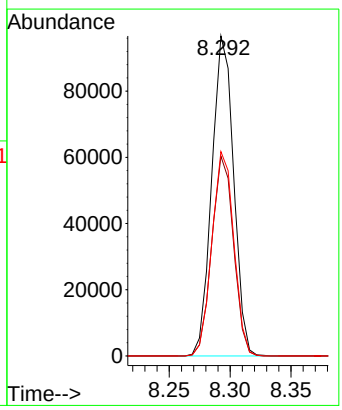


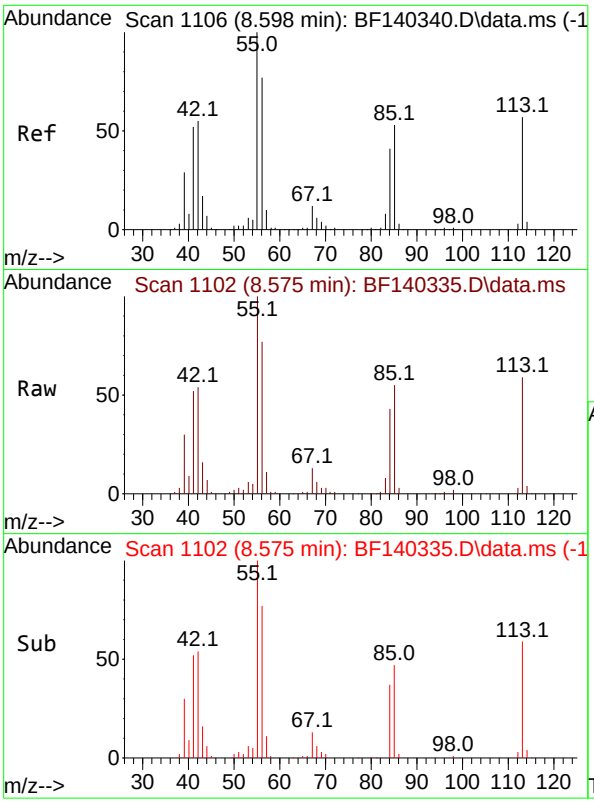


#34
Hexachlorobutadiene
Concen: 21.087 ng
RT: 8.292 min Scan# 1054
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:225 Resp: 120624

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.1	75.1
227	63.9	51.3	76.9



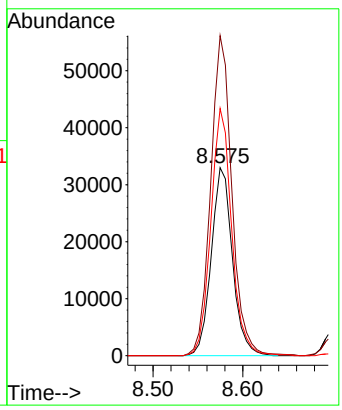


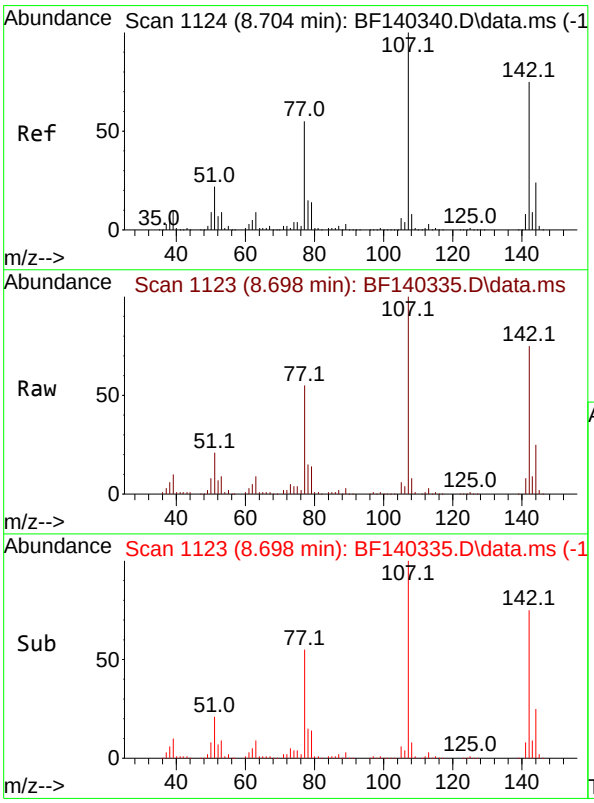
#35
Caprolactam
Concen: 19.929 ng
RT: 8.575 min Scan# 11
Delta R.T. -0.024 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 54033

Ion	Ratio	Lower	Upper
113	100		
55	170.2	150.0	190.0
56	131.5	111.1	151.1

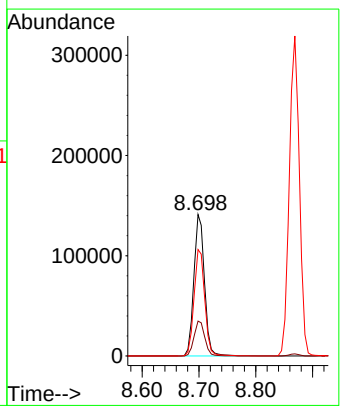


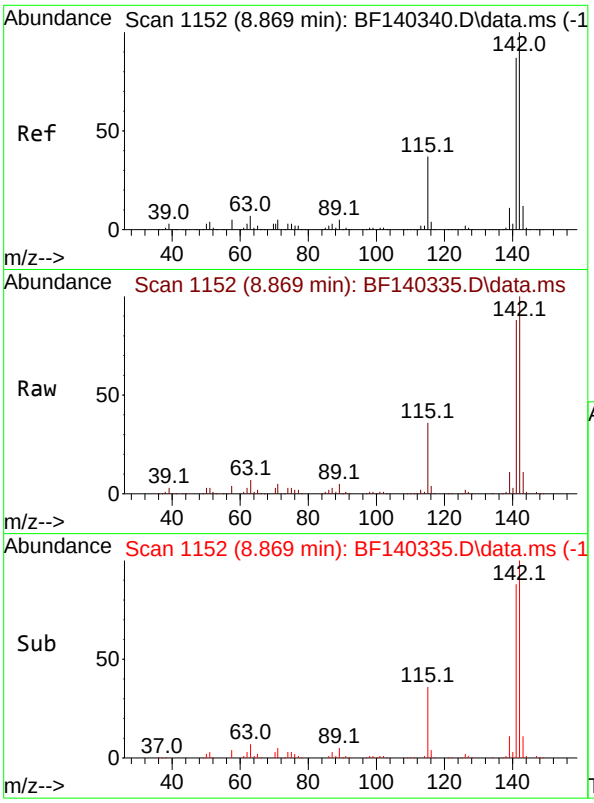


#36
4-Chloro-3-methylphenol
Concen: 20.581 ng
RT: 8.698 min Scan# 1123
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:107 Resp: 183923

Ion	Ratio	Lower	Upper
107	100		
144	24.6	19.3	28.9
142	75.2	59.4	89.0



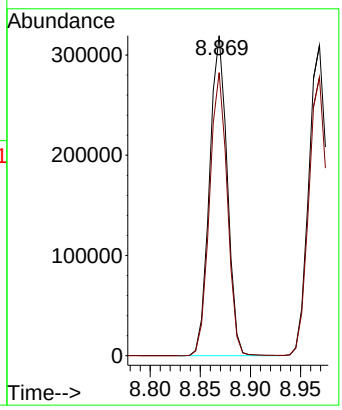


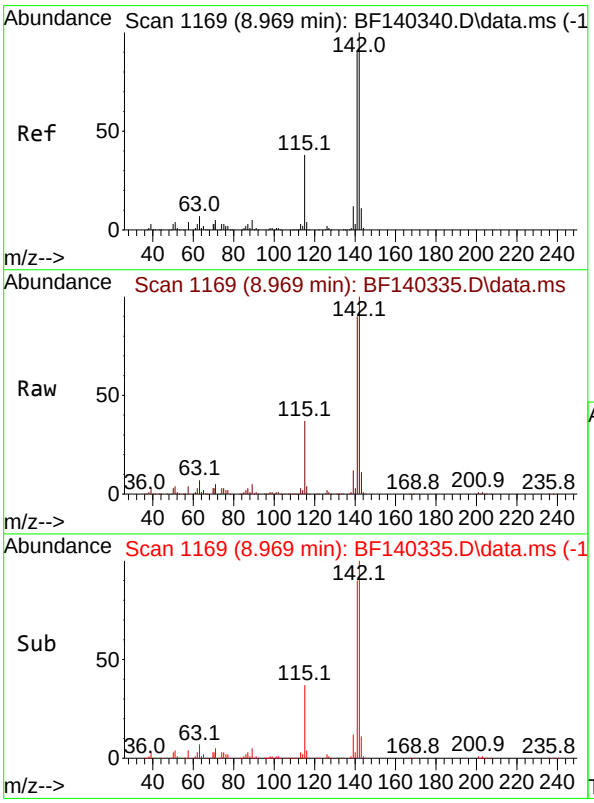
#37
2-Methylnaphthalene
Concen: 21.001 ng
RT: 8.869 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 392634

Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.4	105.6

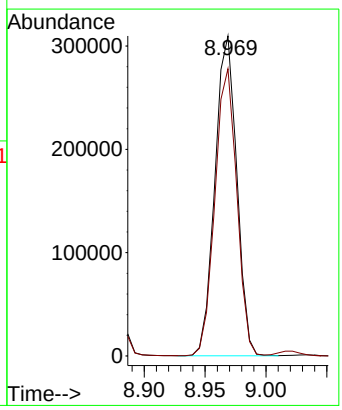


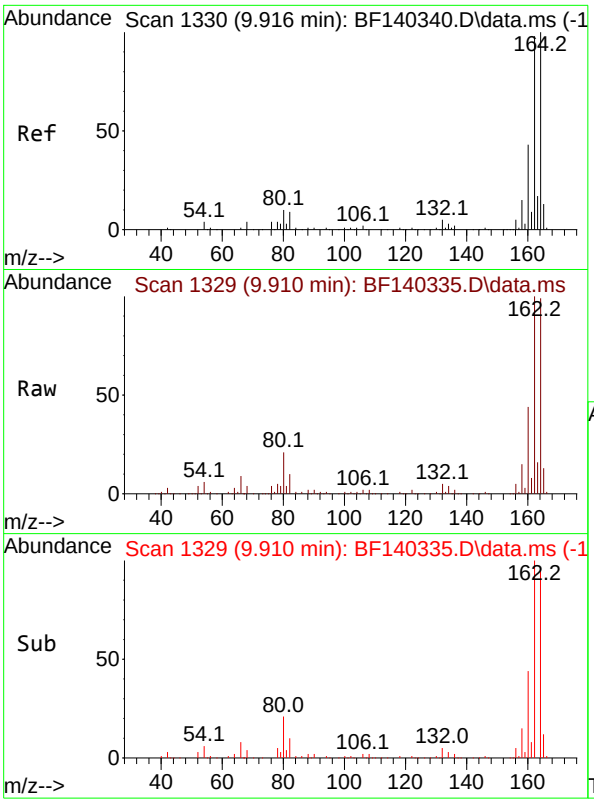


#38
1-Methylnaphthalene
Concen: 21.125 ng
RT: 8.969 min Scan# 1169
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:142 Resp: 386754

Ion	Ratio	Lower	Upper
142	100		
141	89.8	73.6	110.4



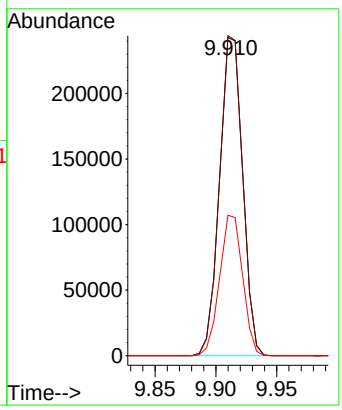


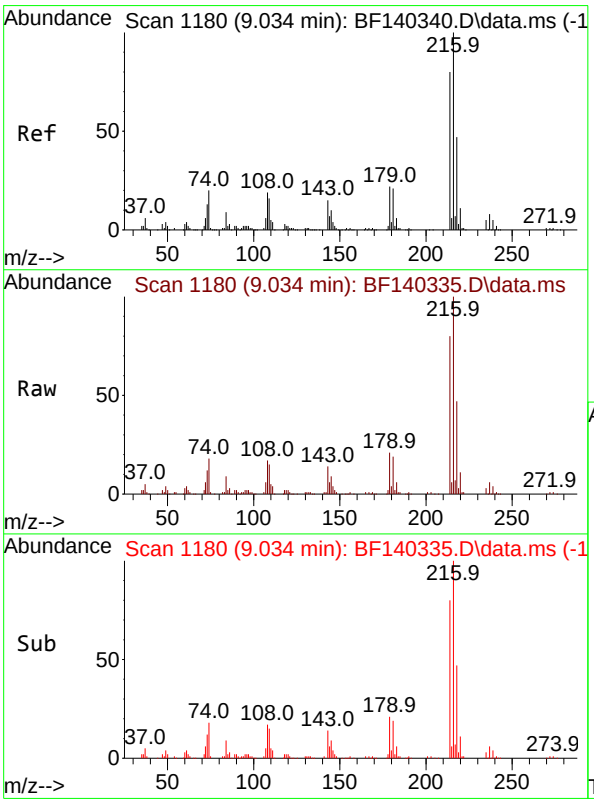
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 321015

Ion	Ratio	Lower	Upper
164	100		
162	100.5	79.8	119.8
160	44.1	35.4	53.0

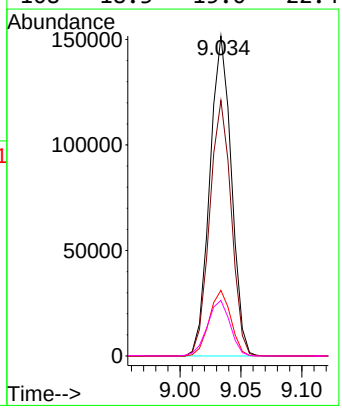


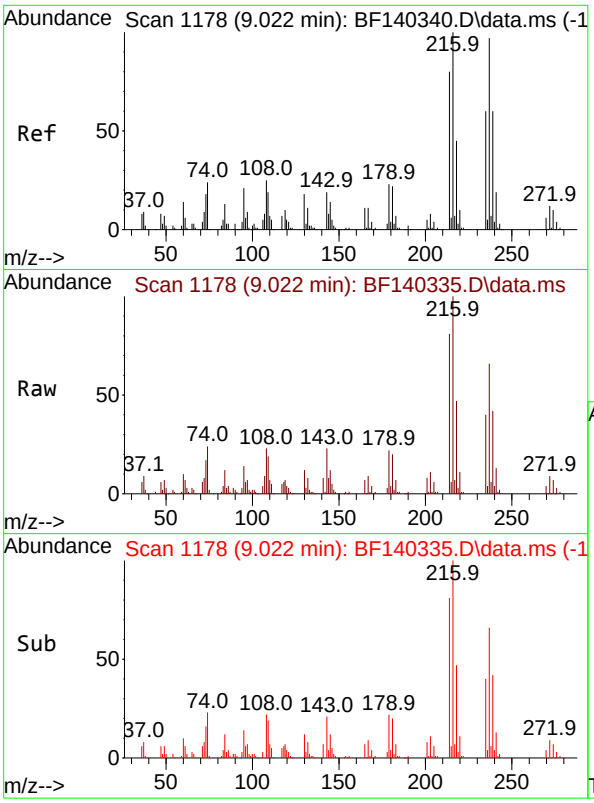


#40
1,2,4,5-Tetrachlorobenzene
Concen: 21.097 ng
RT: 9.034 min Scan# 1180
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:216 Resp: 187279

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.2	94.8
179	20.5	17.2	25.8
108	18.3	15.0	22.4



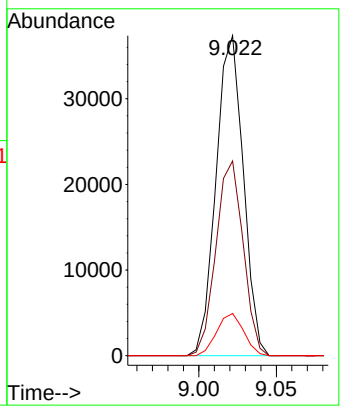


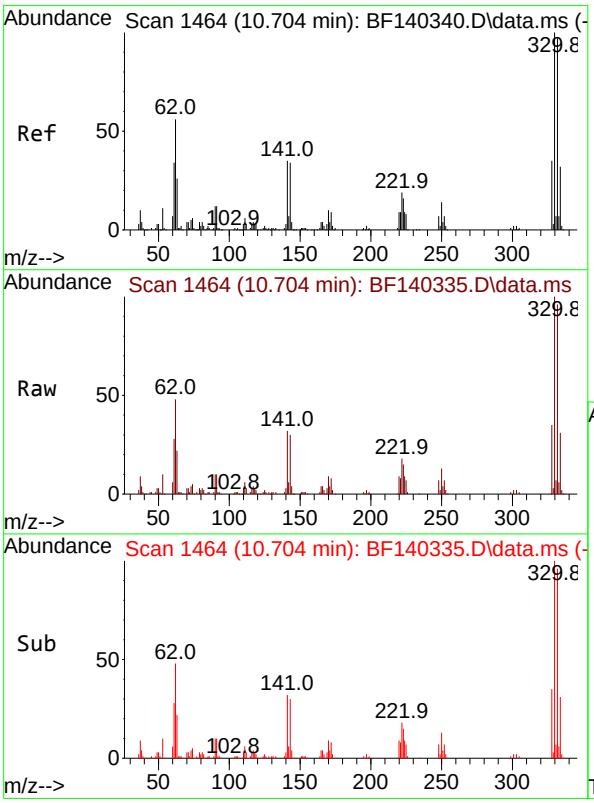
#41
Hexachlorocyclopentadiene
Concen: 20.099 ng
RT: 9.022 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 45811

Ion	Ratio	Lower	Upper
237	100		
235	60.9	42.8	82.8
272	13.2	0.0	33.1

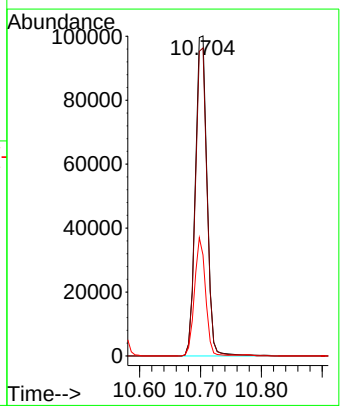


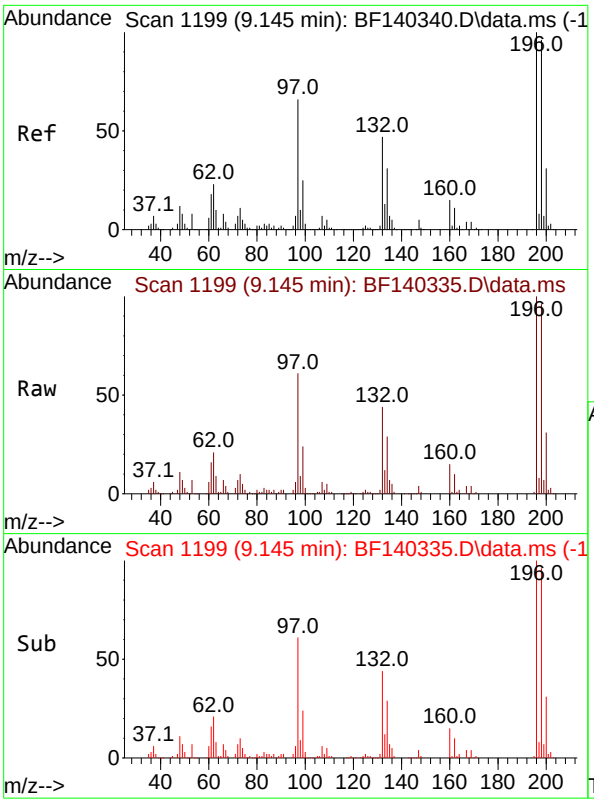


#42
2,4,6-Tribromophenol
Concen: 41.567 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:330 Resp: 132693

Ion	Ratio	Lower	Upper
330	100		
332	96.0	75.9	113.9
141	35.0	26.9	40.3



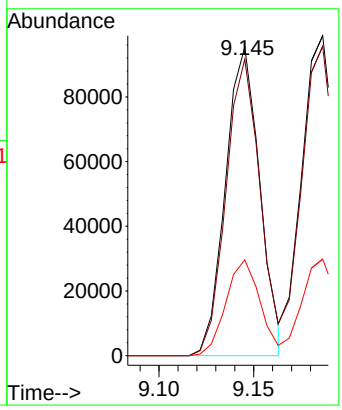


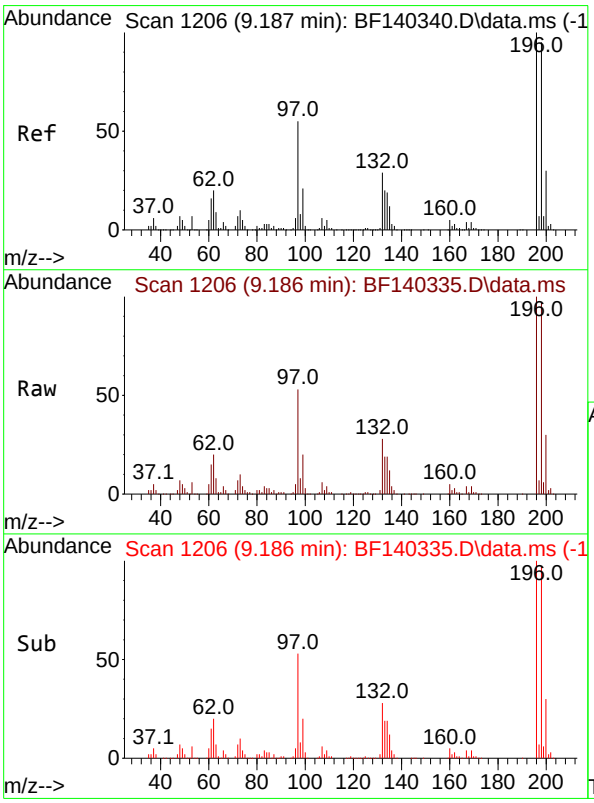
#43
2,4,6-Trichlorophenol
Concen: 20.609 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 120063

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.0	115.4
200	31.1	24.2	36.4

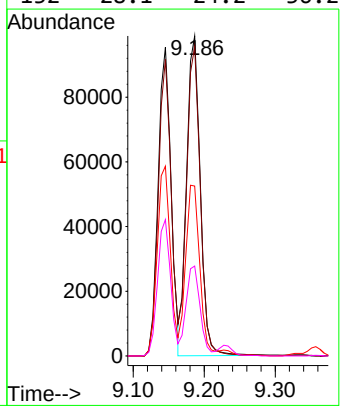


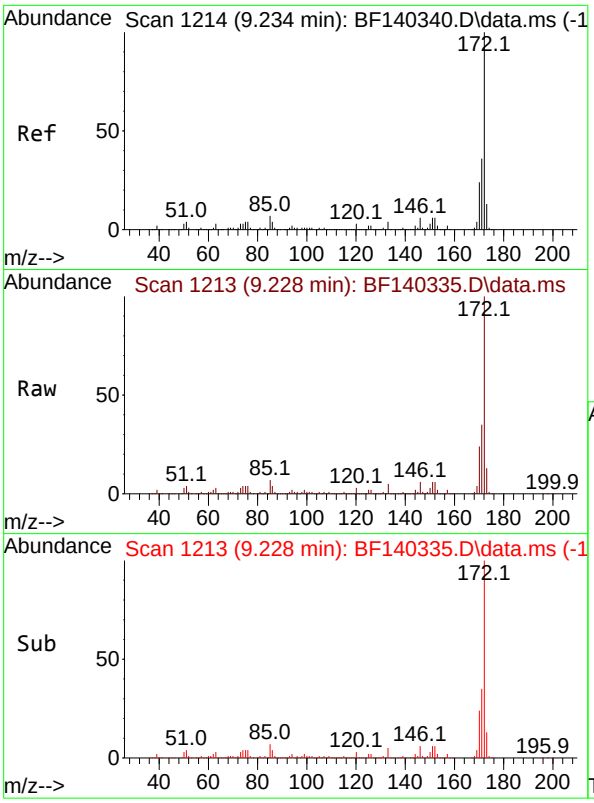


#44
2,4,5-Trichlorophenol
Concen: 20.789 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:196 Resp: 132413

Ion	Ratio	Lower	Upper
196	100		
198	96.7	77.6	116.4
97	53.1	45.4	68.2
132	28.1	24.2	36.2



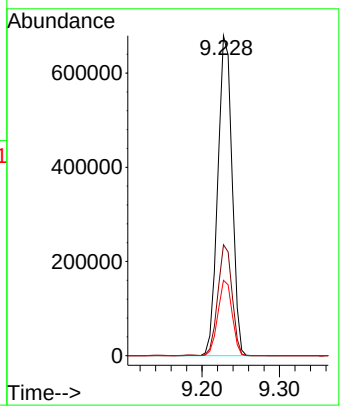


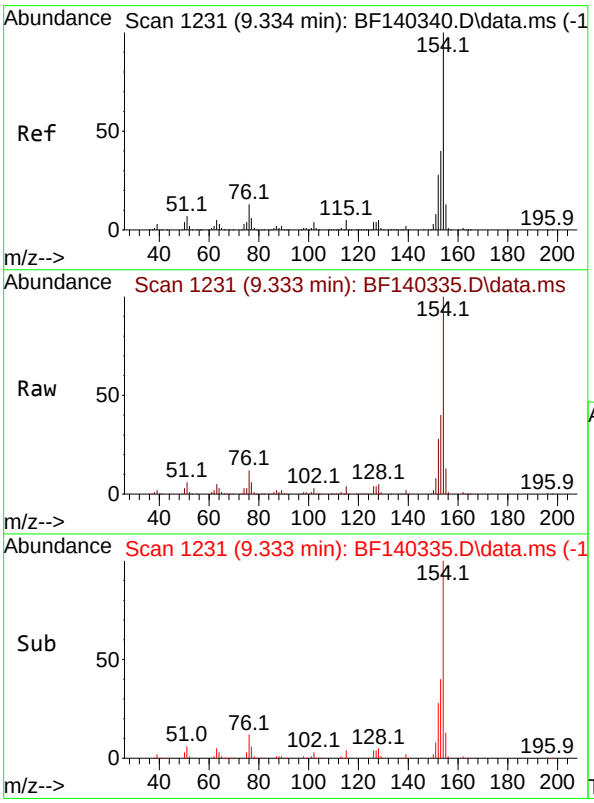
#45
2-Fluorobiphenyl
Concen: 43.439 ng
RT: 9.228 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 867449

Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.5	42.7
170	23.5	19.1	28.7

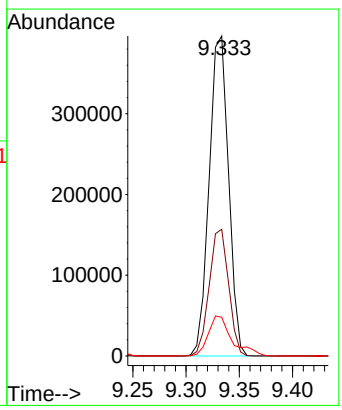


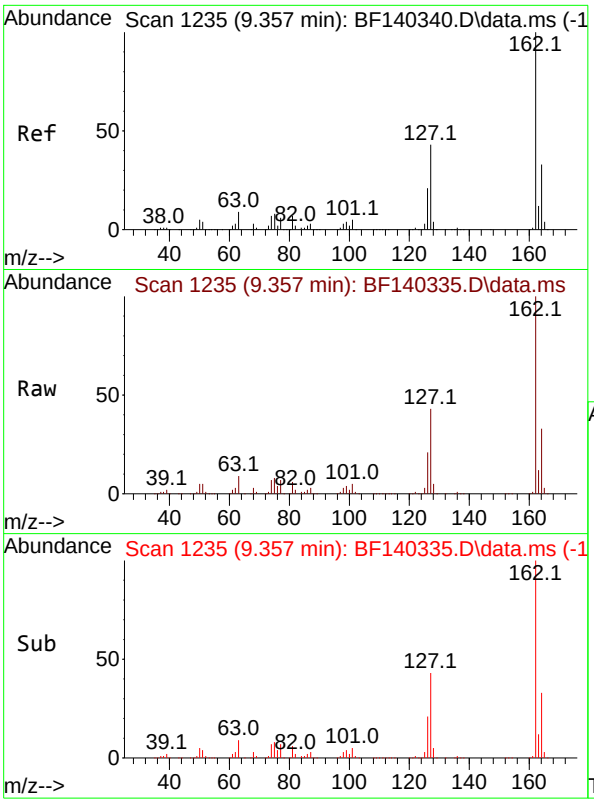


#46
1,1'-Biphenyl
Concen: 21.506 ng
RT: 9.333 min Scan# 1231
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:154 Resp: 502252

Ion	Ratio	Lower	Upper
154	100		
153	39.6	20.4	60.4
76	12.1	0.0	32.9



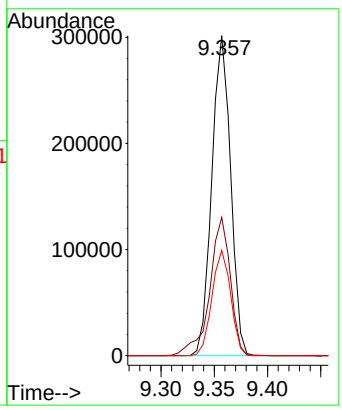


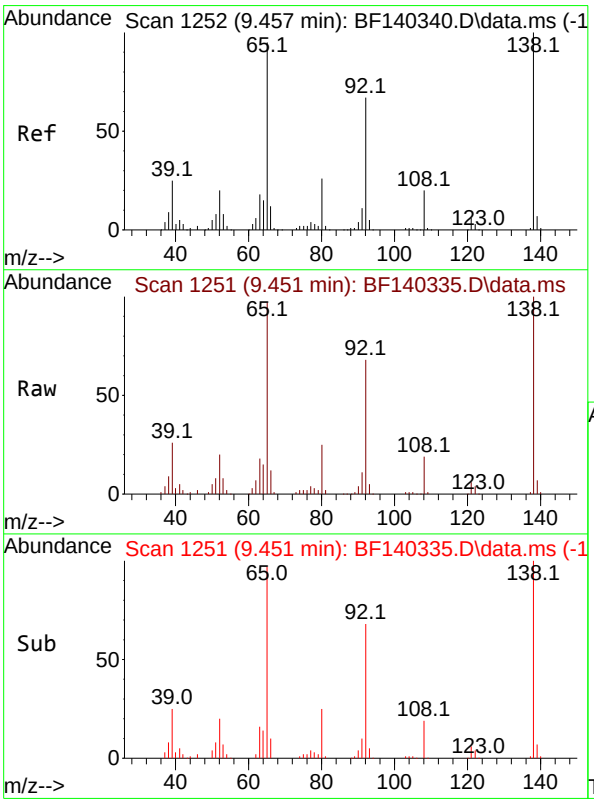
#47
2-Chloronaphthalene
Concen: 20.741 ng
RT: 9.357 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 368985

Ion	Ratio	Lower	Upper
162	100		
127	43.2	34.0	51.0
164	32.9	26.5	39.7

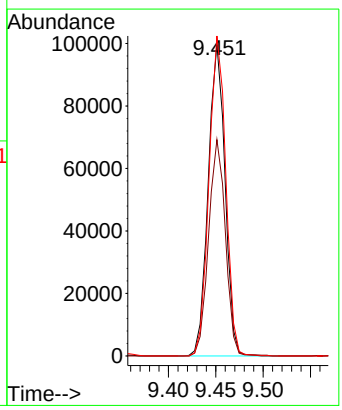


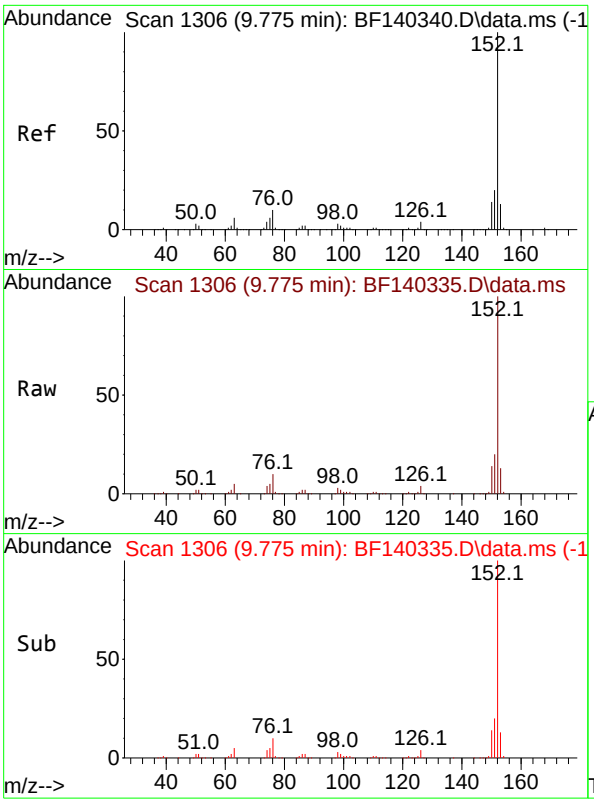


#48
2-Nitroaniline
Concen: 20.885 ng
RT: 9.451 min Scan# 1251
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion: 65 Resp: 123220

Ion	Ratio	Lower	Upper
65	100		
92	69.4	56.4	84.6
138	102.7	84.8	127.2



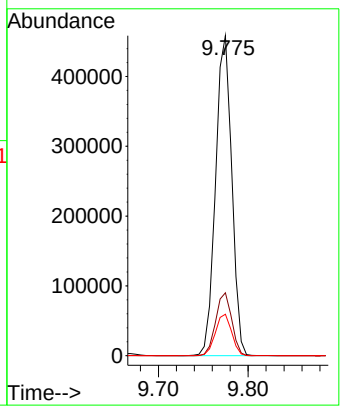


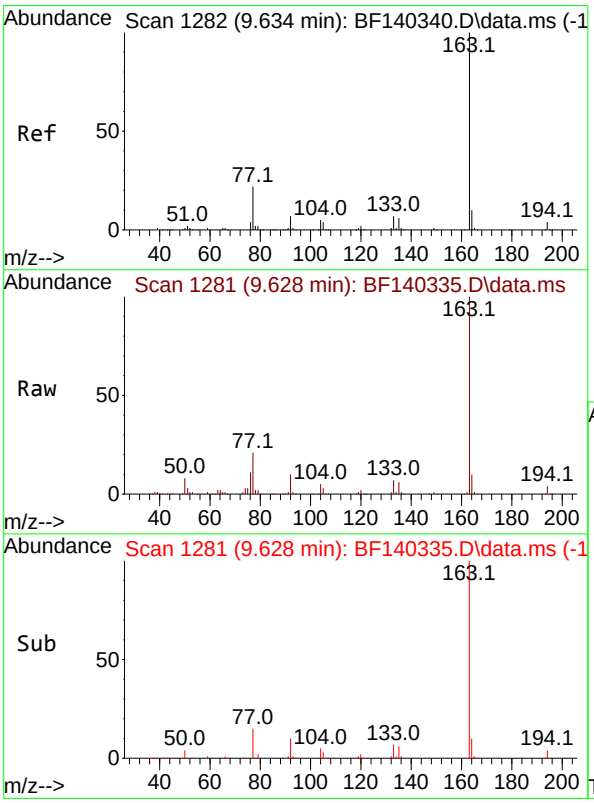
#49
Acenaphthylene
Concen: 21.301 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 573335

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.1	24.1
153	13.0	10.7	16.1

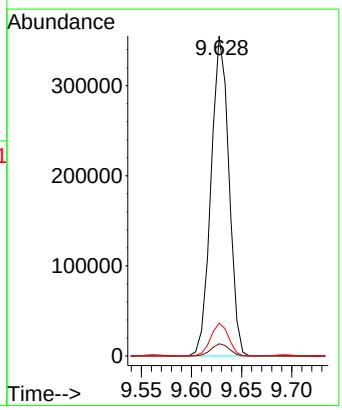


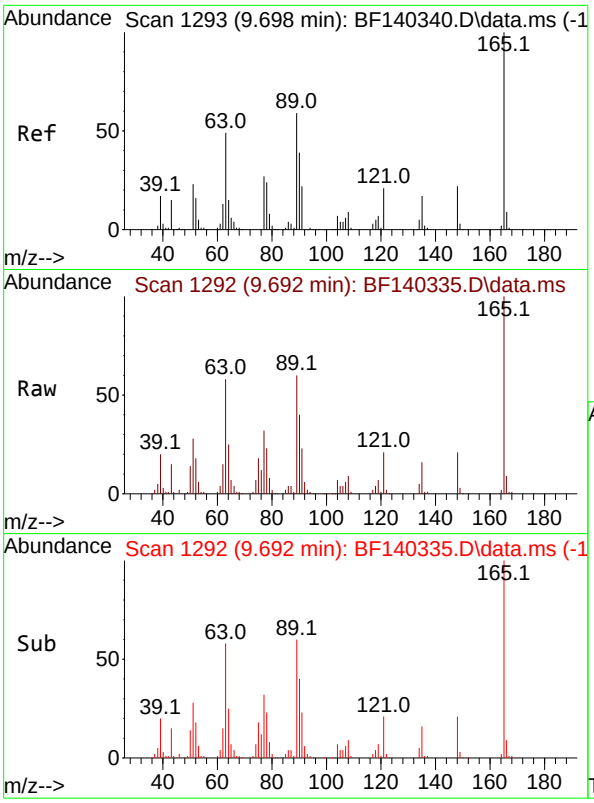


#50
Dimethylphthalate
Concen: 21.031 ng
RT: 9.628 min Scan# 1281
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:163 Resp: 440050

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.3	8.2	12.4



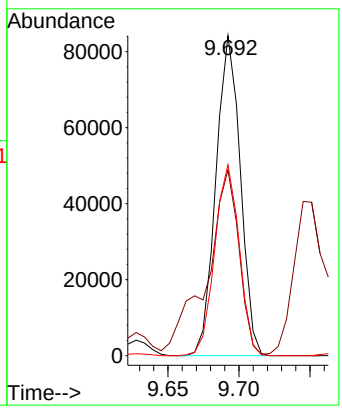


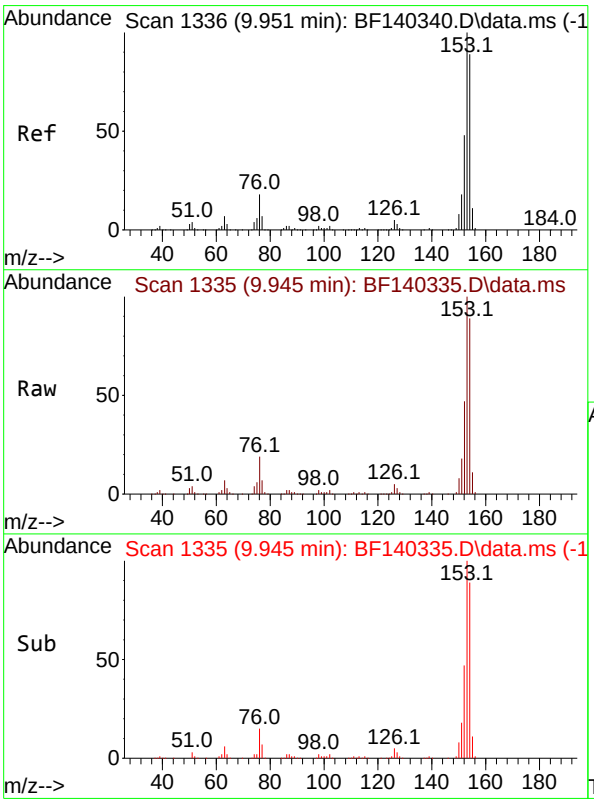
#51
2,6-Dinitrotoluene
Concen: 21.089 ng
RT: 9.692 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 100599

Ion	Ratio	Lower	Upper
165	100		
63	58.0	47.6	71.4
89	59.7	48.1	72.1

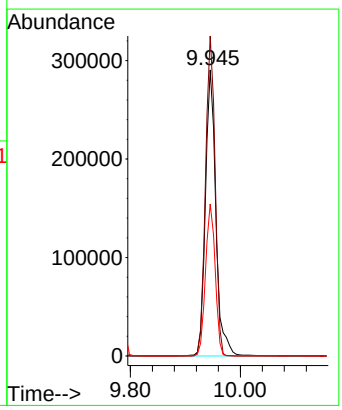


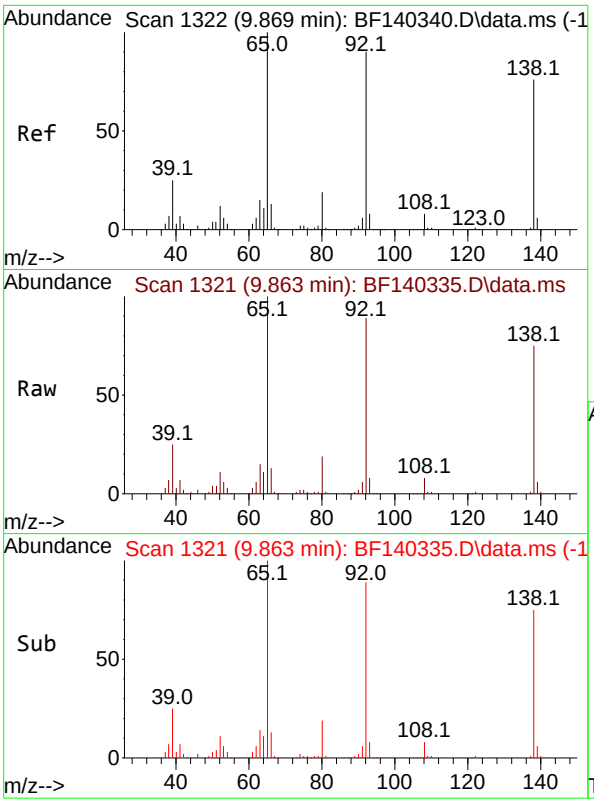


#52
Acenaphthene
Concen: 21.056 ng
RT: 9.945 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:154 Resp: 382783

Ion	Ratio	Lower	Upper
154	100		
153	111.8	89.8	134.8
152	53.1	42.6	64.0



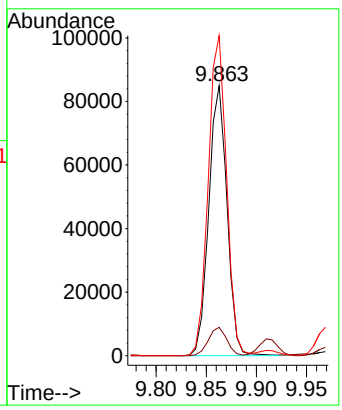


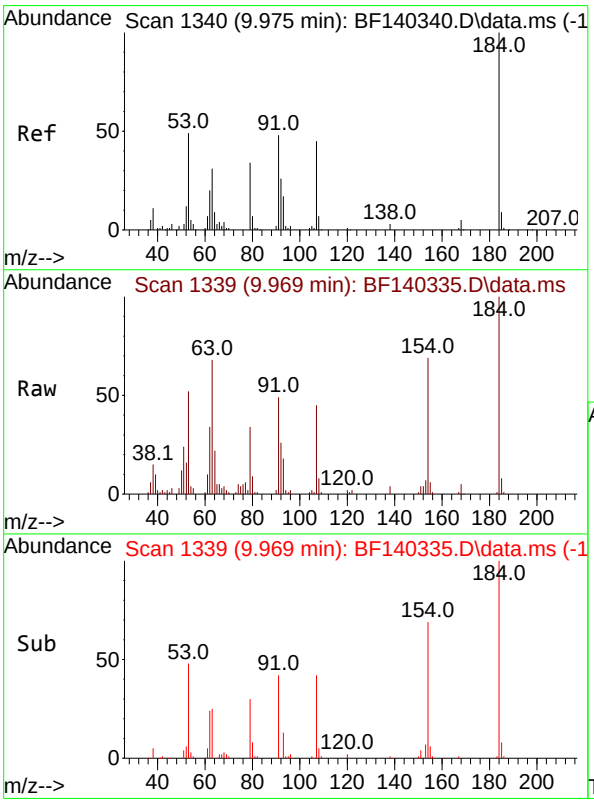
#53
3-Nitroaniline
Concen: 21.467 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 107540

Ion	Ratio	Lower	Upper
138	100		
108	10.5	8.4	12.6
92	118.5	95.5	143.3

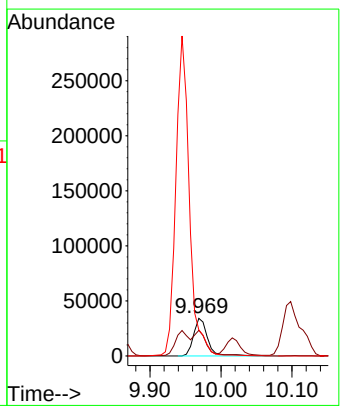


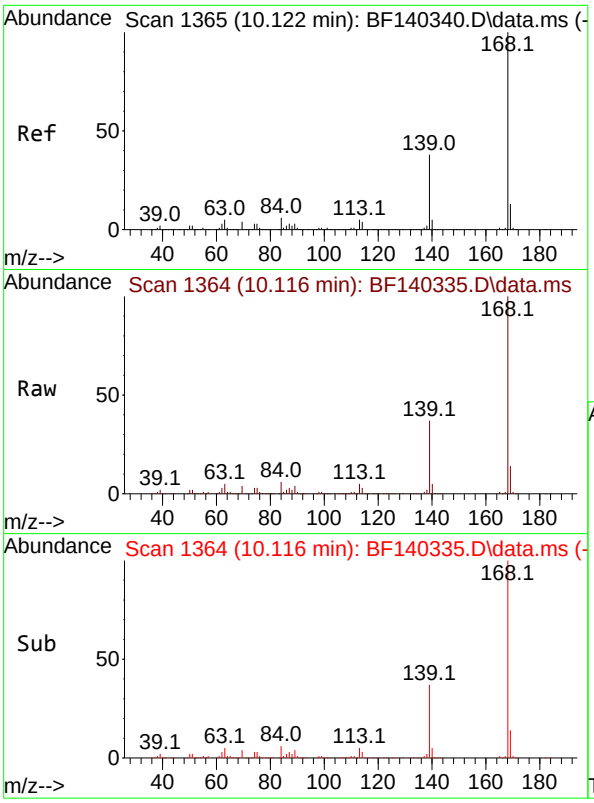


#54
2,4-Dinitrophenol
Concen: 19.274 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:184 Resp: 47413

Ion	Ratio	Lower	Upper
184	100		
63	68.1	53.5	80.3
154	69.3	51.3	76.9



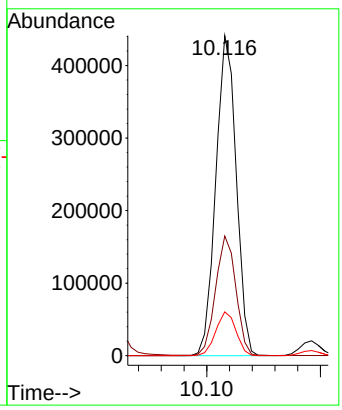


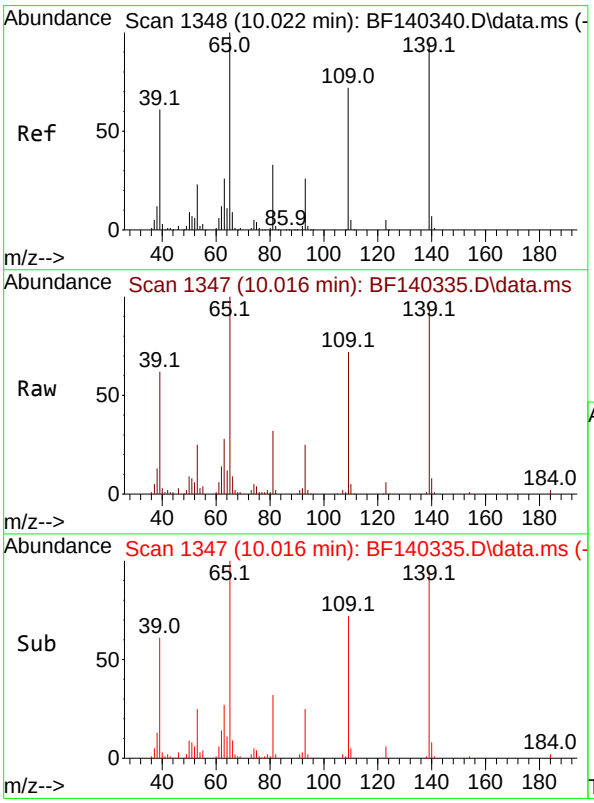
#55
Dibenzofuran
Concen: 21.391 ng
RT: 10.116 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 550502

Ion	Ratio	Lower	Upper
168	100		
139	37.4	30.8	46.2
169	13.7	10.8	16.2

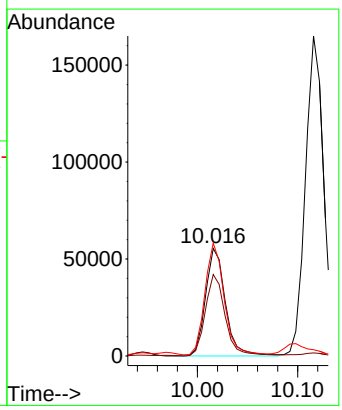


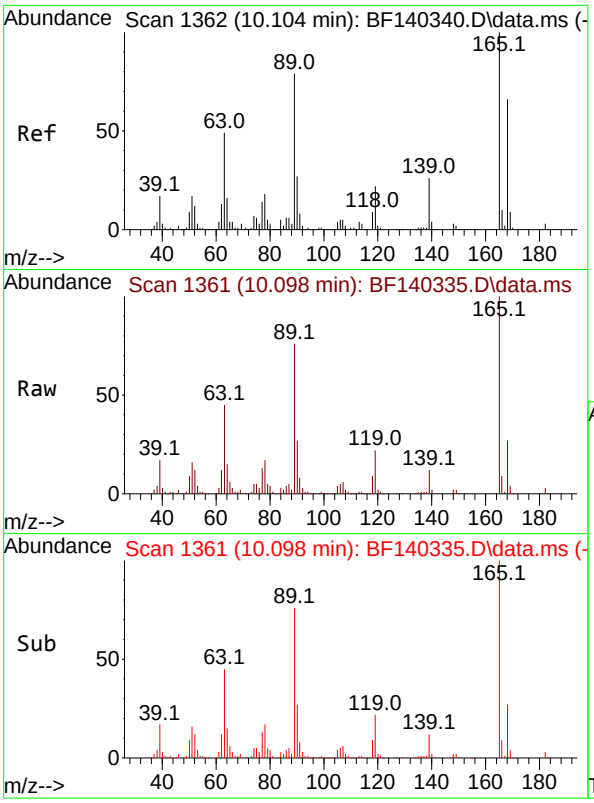


#56
4-Nitrophenol
Concen: 20.993 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:139 Resp: 76711

Ion	Ratio	Lower	Upper
139	100		
109	75.6	54.5	94.5
65	105.1	84.4	124.4



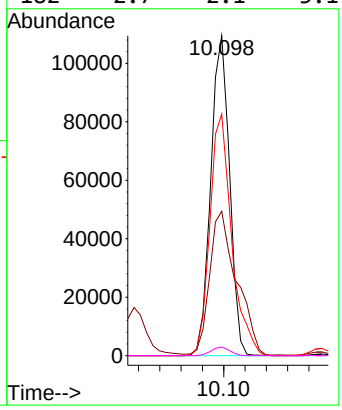


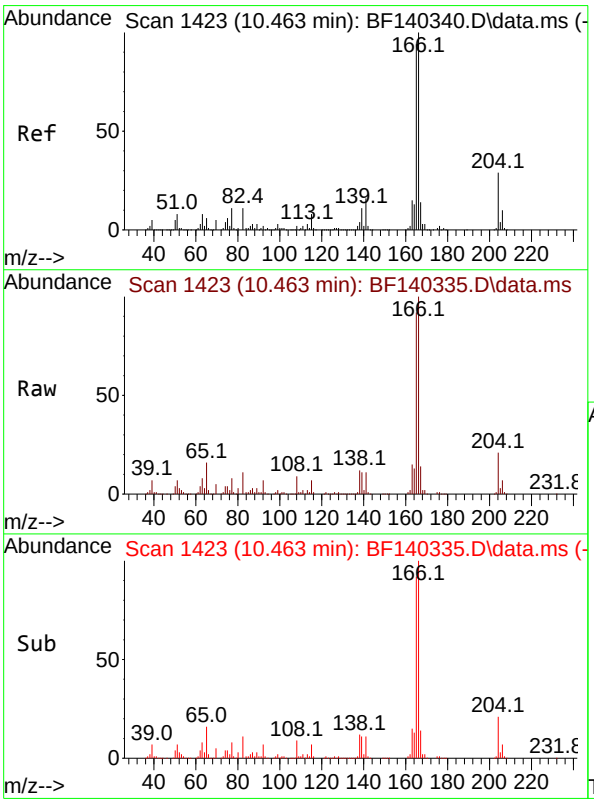
#57
2,4-Dinitrotoluene
Concen: 21.321 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 133852

Ion	Ratio	Lower	Upper
165	100		
63	45.1	39.4	59.0
89	75.5	62.4	93.6
182	2.7	2.1	3.1

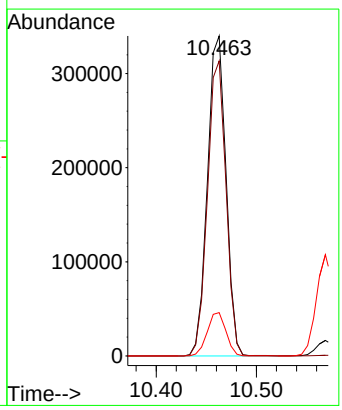


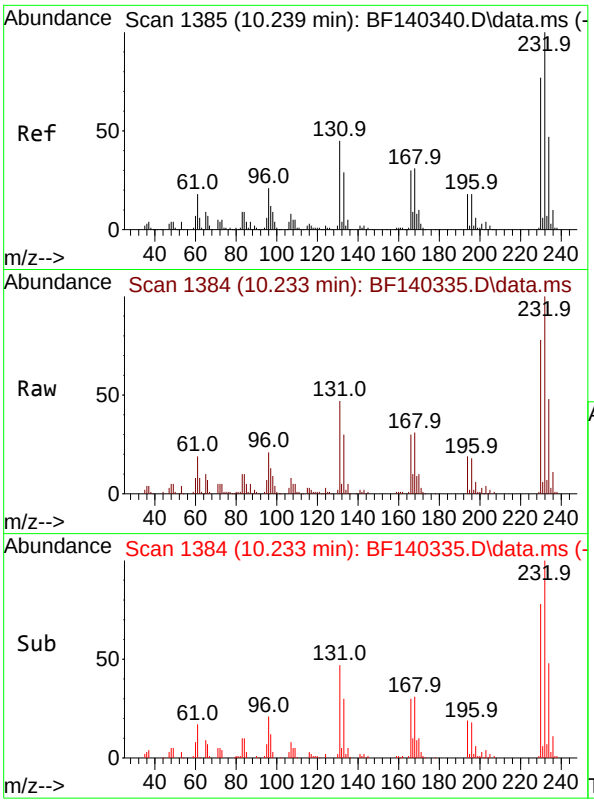


#58
Fluorene
Concen: 21.548 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:166 Resp: 438095

Ion	Ratio	Lower	Upper
166	100		
165	92.2	73.9	110.9
167	13.6	10.9	16.3



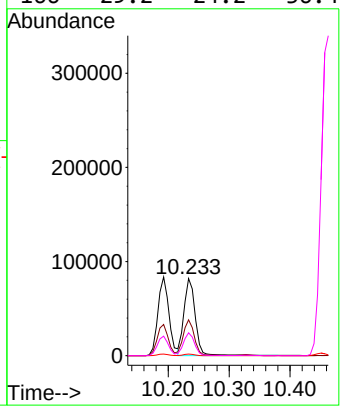


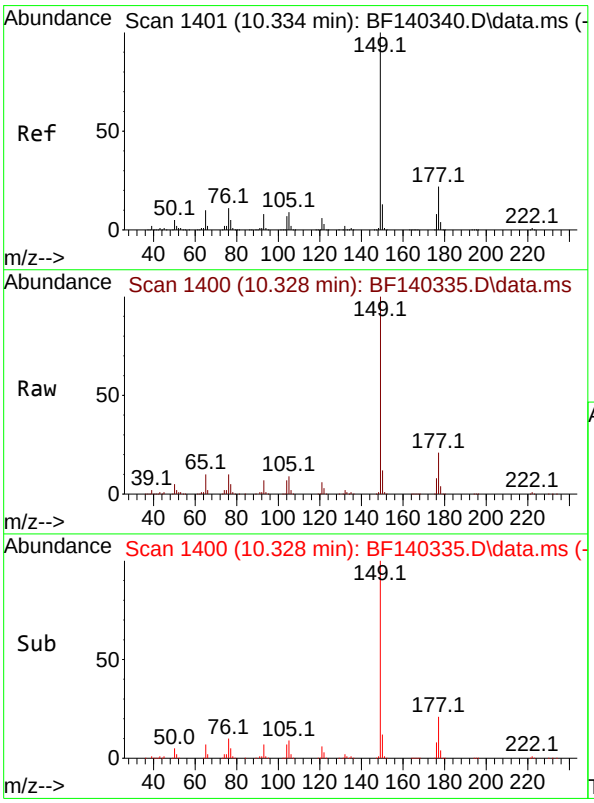
#59
2,3,4,6-Tetrachlorophenol
Concen: 20.824 ng
RT: 10.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 104638

Ion	Ratio	Lower	Upper
232	100		
131	46.9	36.8	55.2
130	2.0	1.9	2.9
166	29.2	24.2	36.4

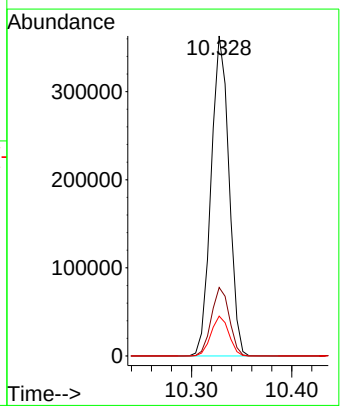


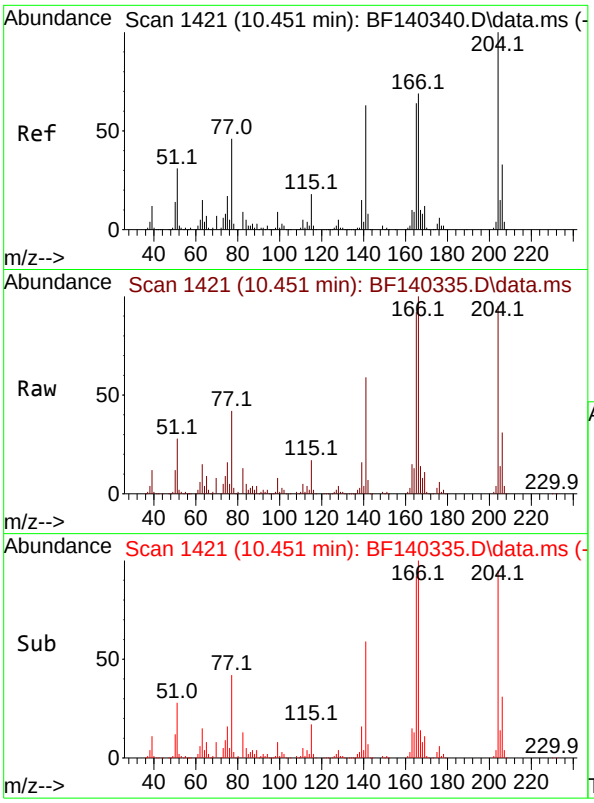


#60
Diethylphthalate
Concen: 20.979 ng
RT: 10.328 min Scan# 1400
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:149 Resp: 448855

Ion	Ratio	Lower	Upper
149	100		
177	21.4	17.5	26.3
150	12.4	10.1	15.1



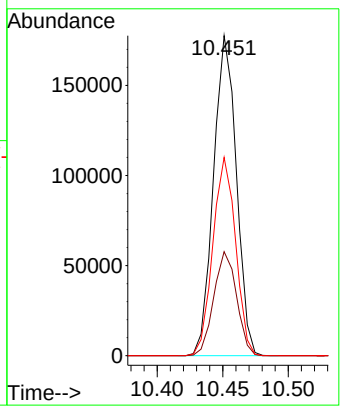


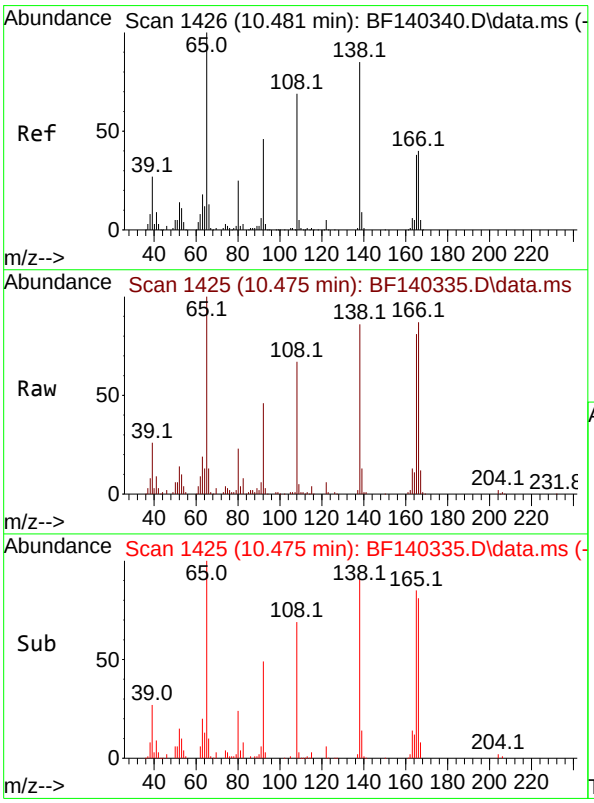
#61
4-Chlorophenyl-phenylether
Concen: 21.407 ng
RT: 10.451 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 214868

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.0	39.0
141	62.0	49.8	74.8

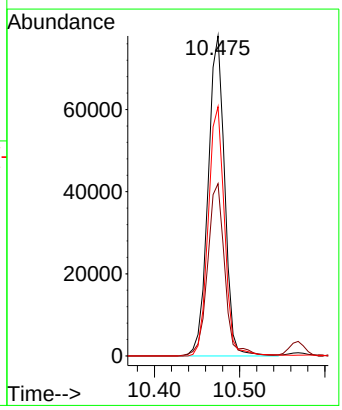


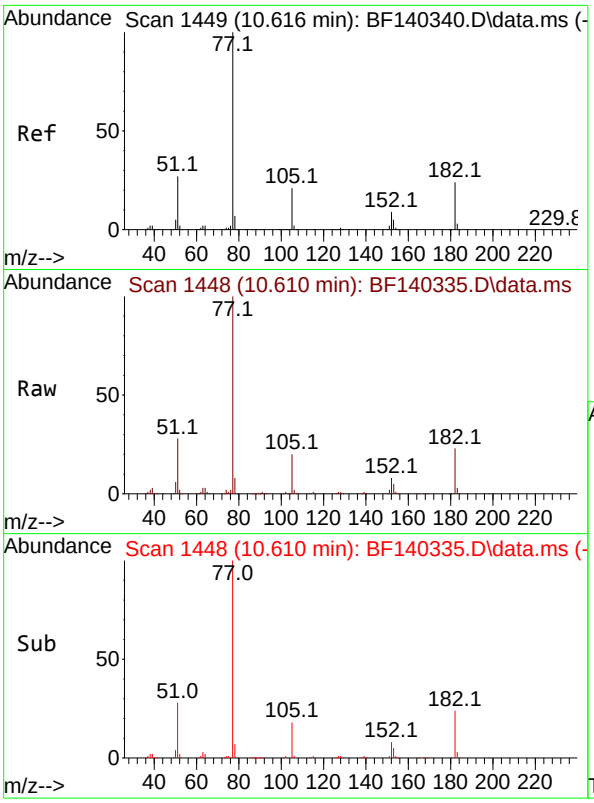


#62
4-Nitroaniline
Concen: 20.576 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:138 Resp: 105392

Ion	Ratio	Lower	Upper
138	100		
92	53.8	33.8	73.8
108	77.9	59.9	99.9



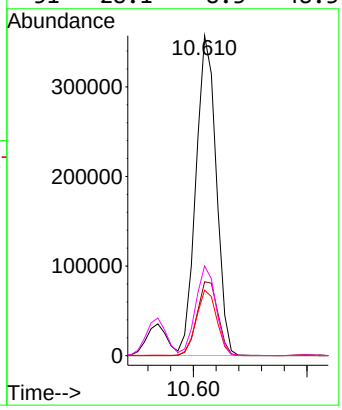


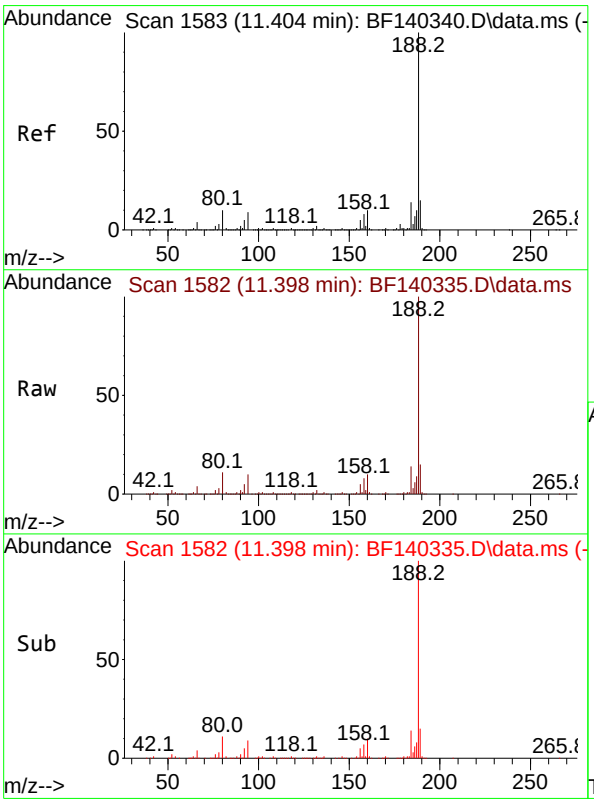
#63
Azobenzene
Concen: 20.957 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 443044

Ion	Ratio	Lower	Upper
77	100		
182	23.1	4.6	44.6
105	20.5	0.9	40.9
51	28.1	8.3	48.3

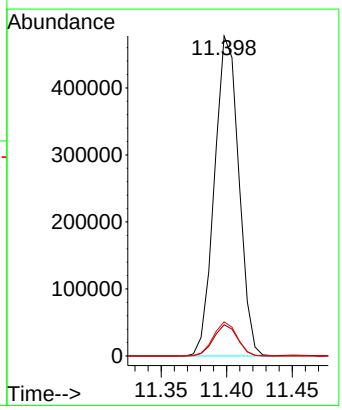


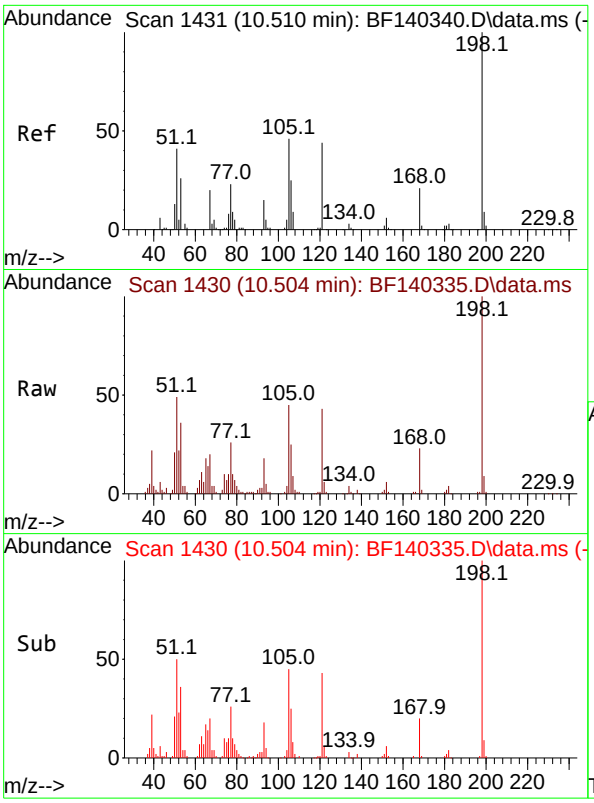


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:188 Resp: 615627

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.6	11.4
80	10.7	8.0	12.0



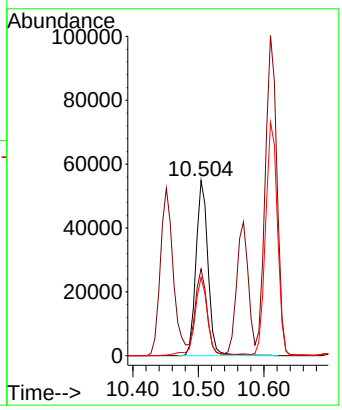


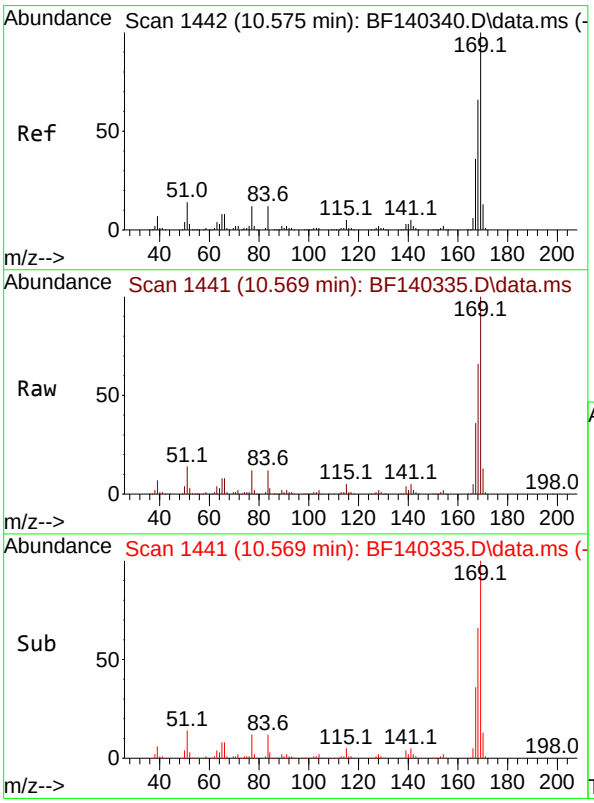
#65
4,6-Dinitro-2-methylphenol
Concen: 21.089 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 69851

Ion	Ratio	Lower	Upper
198	100		
51	49.5	29.7	69.7
105	44.6	26.3	66.3

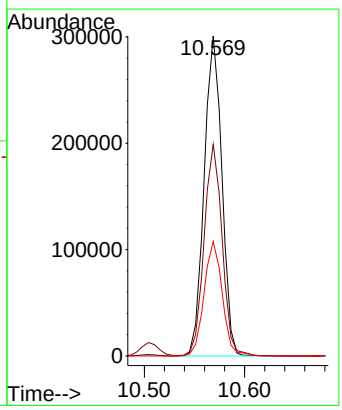


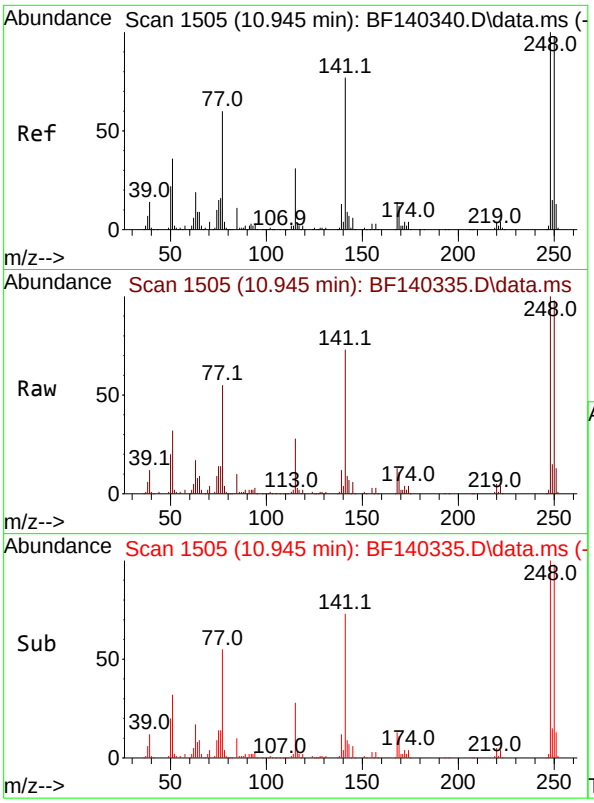


#66
n-Nitrosodiphenylamine
Concen: 20.780 ng
RT: 10.569 min Scan# 1441
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:169 Resp: 369633

Ion	Ratio	Lower	Upper
169	100		
168	66.1	52.7	79.1
167	35.8	29.3	43.9



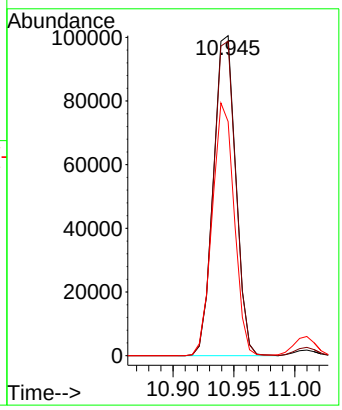


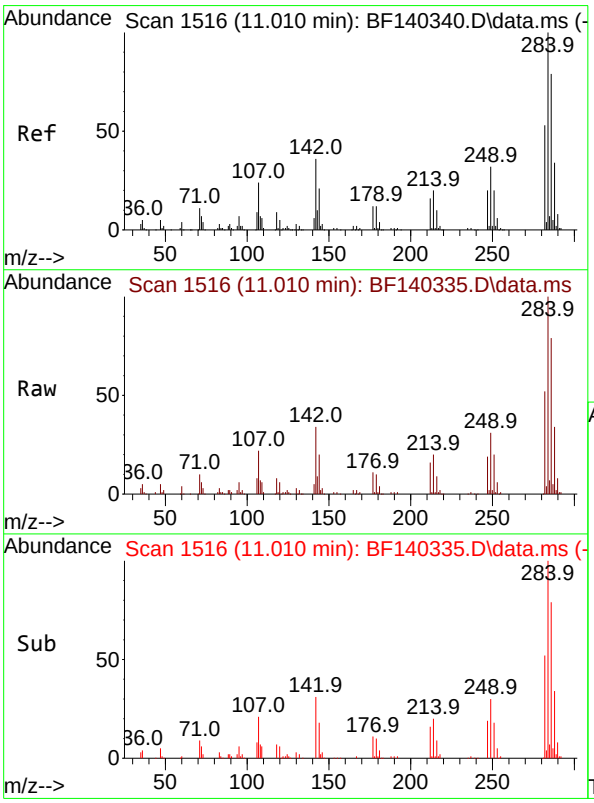
#67
4-Bromophenyl-phenylether
Concen: 20.881 ng
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 128501

Ion	Ratio	Lower	Upper
248	100		
250	98.2	77.9	116.9
141	73.1	61.8	92.6

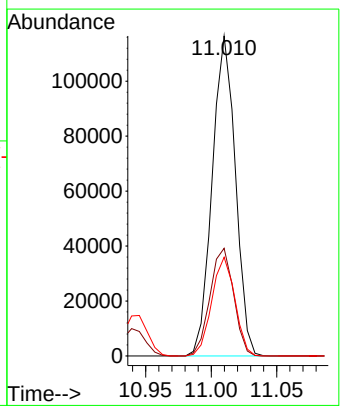


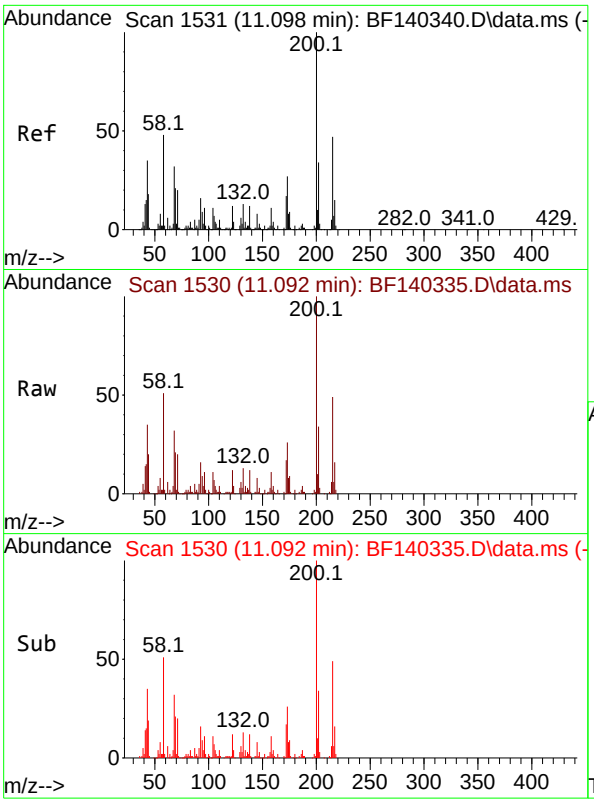


#68
Hexachlorobenzene
Concen: 20.667 ng
RT: 11.010 min Scan# 1516
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:284 Resp: 143099

Ion	Ratio	Lower	Upper
284	100		
142	33.7	28.1	42.1
249	30.8	24.9	37.3



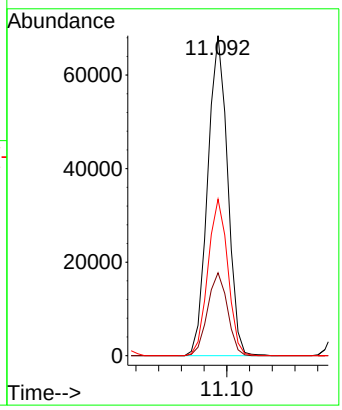


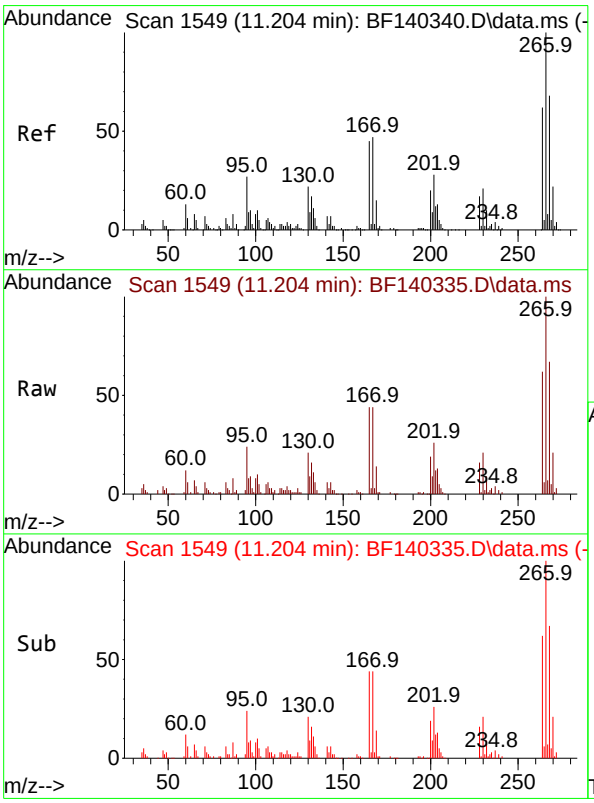
#69
Atrazine
Concen: 15.446 ng
RT: 11.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 83124

Ion	Ratio	Lower	Upper
200	100		
173	25.9	6.6	46.6
215	48.9	27.2	67.2

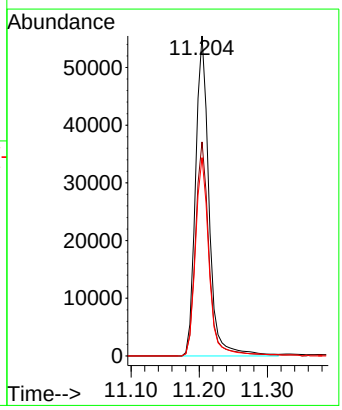


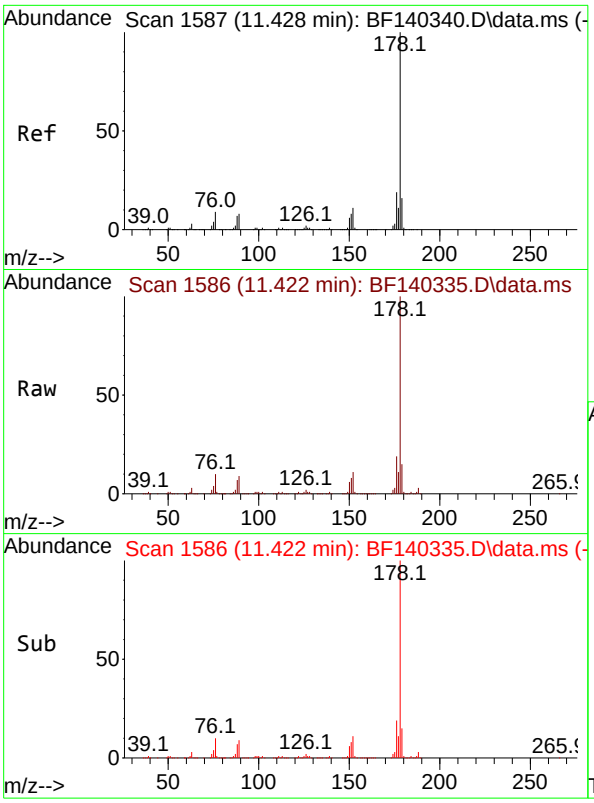


#70
Pentachlorophenol
Concen: 20.435 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:266 Resp: 76218

Ion	Ratio	Lower	Upper
266	100		
268	66.9	52.9	79.3
264	62.0	50.3	75.5



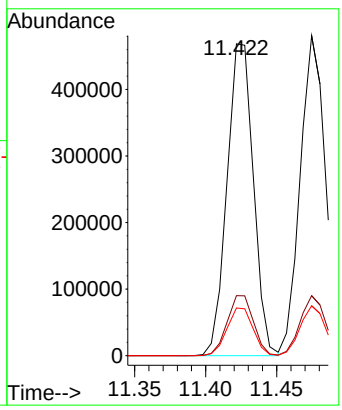


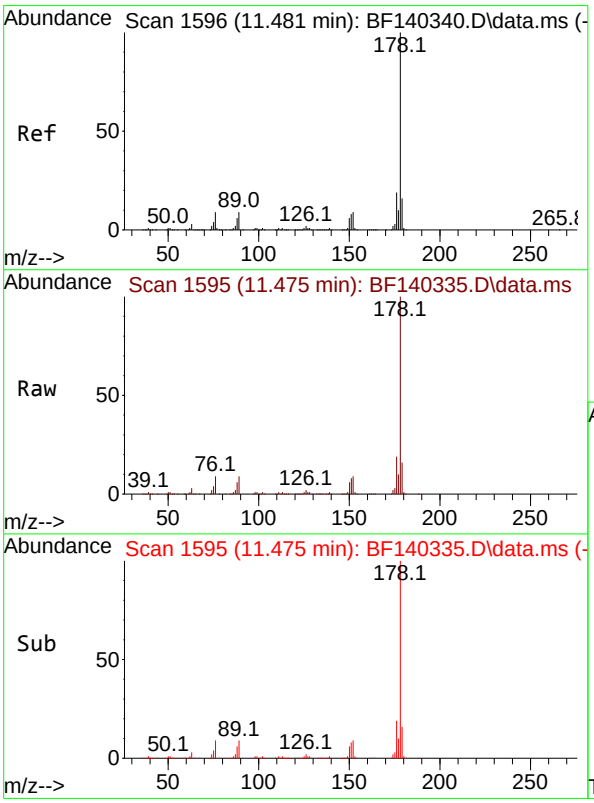
#71
Phenanthrene
Concen: 20.980 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 606738

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.3	12.4	18.6

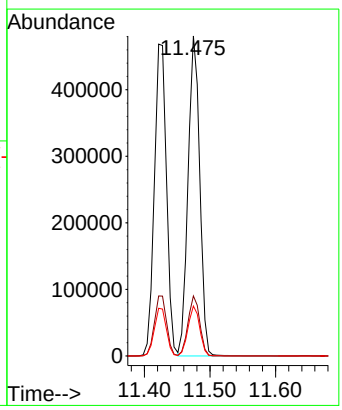


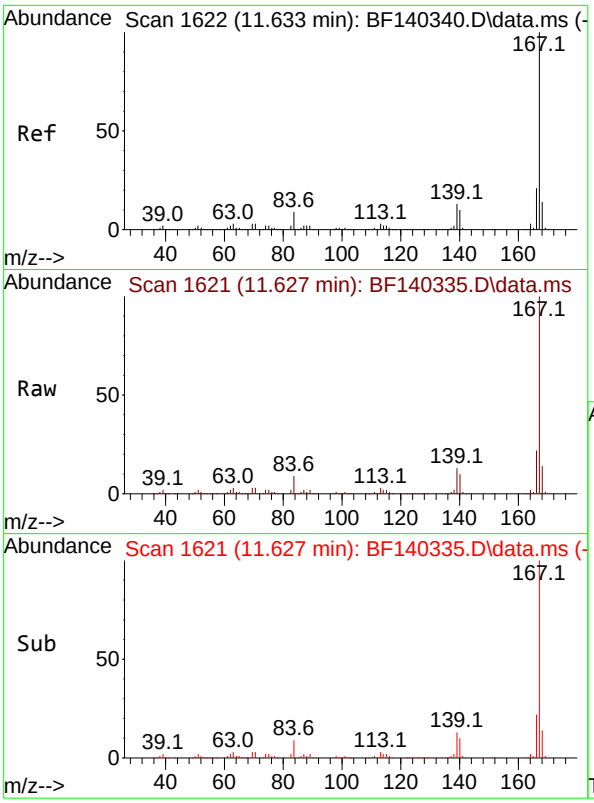


#72
Anthracene
Concen: 20.991 ng
RT: 11.475 min Scan# 1595
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:178 Resp: 594950

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	15.6	12.6	18.8



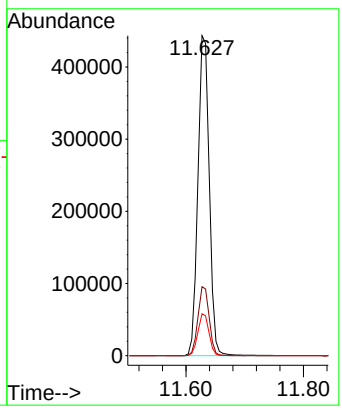


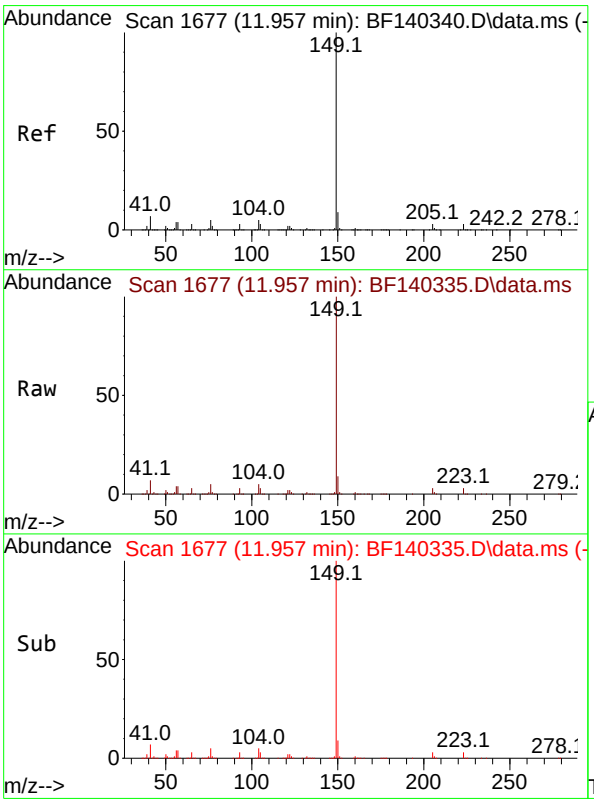
#73
Carbazole
Concen: 21.186 ng
RT: 11.627 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 592904

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.2	25.8
139	13.1	10.4	15.6

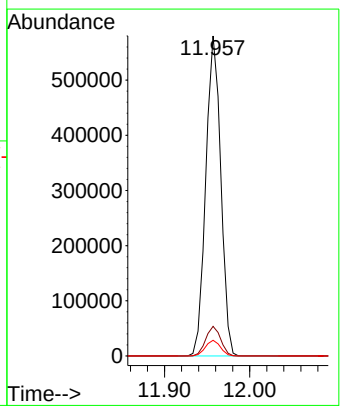


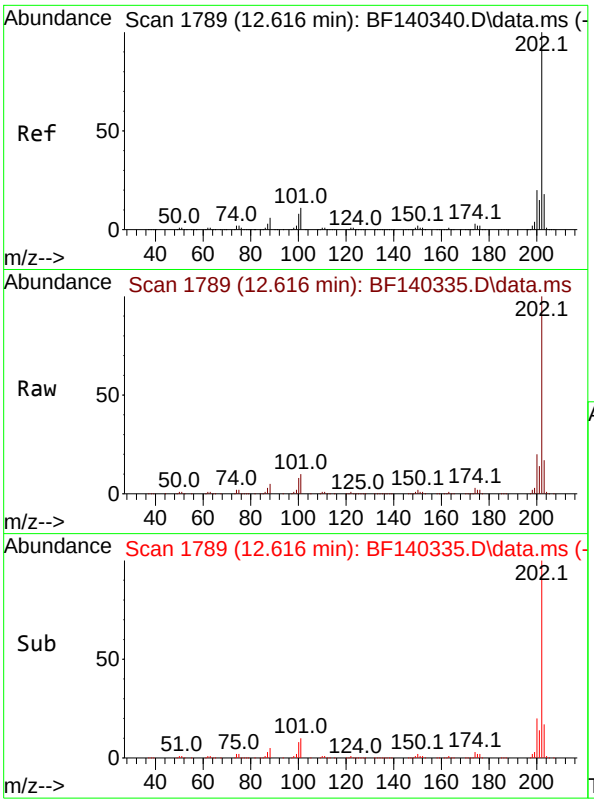


#74
Di-n-butylphthalate
Concen: 21.077 ng
RT: 11.957 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:149 Resp: 707973

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	4.9	4.0	6.0



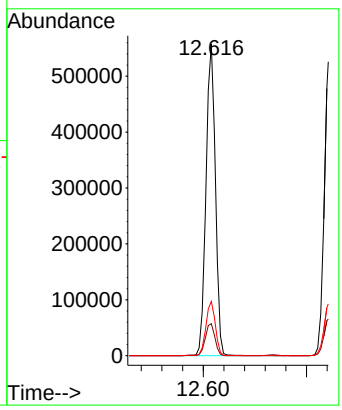


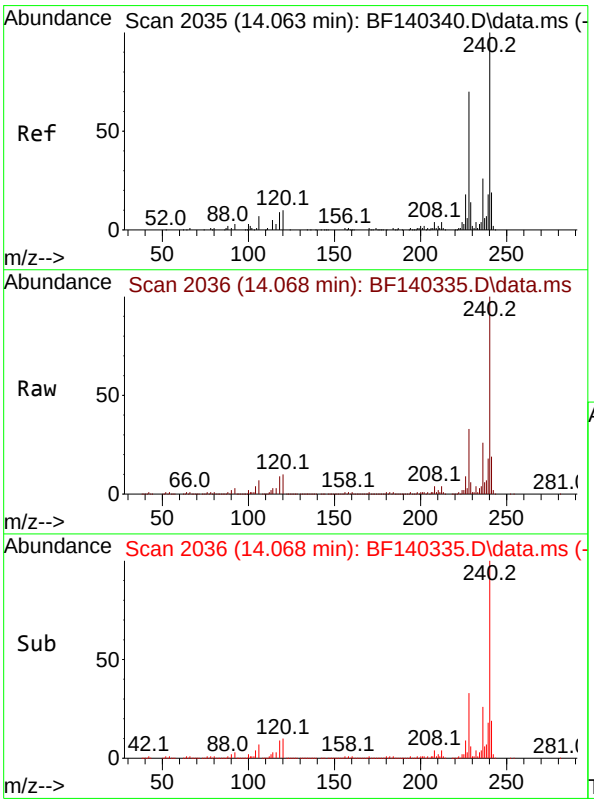
#75
Fluoranthene
Concen: 21.657 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 702671

Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	30.7
203	17.4	0.0	37.7

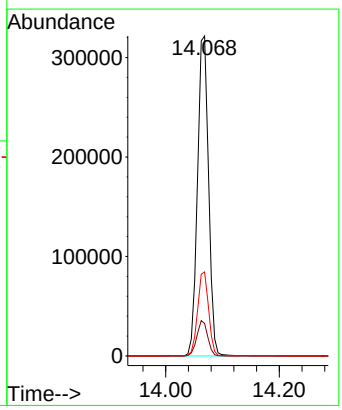


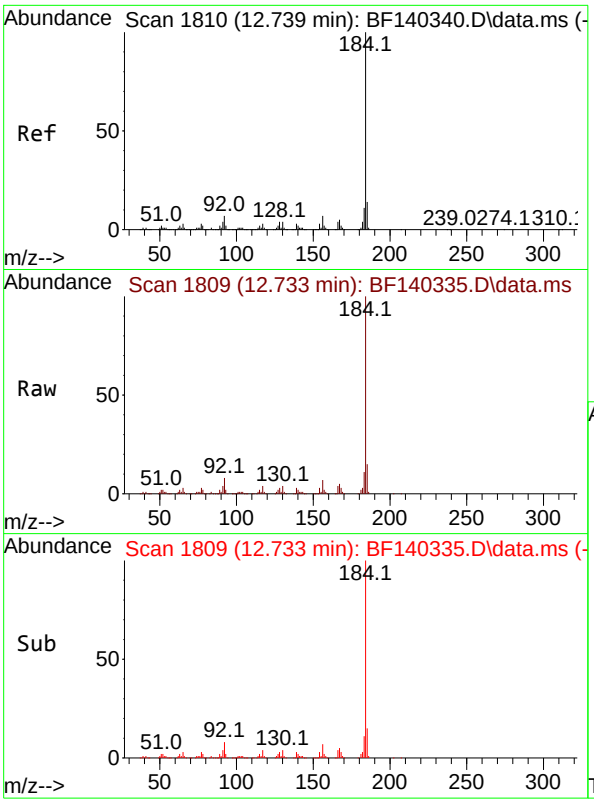


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:240 Resp: 437725

Ion	Ratio	Lower	Upper
240	100		
120	10.2	8.8	13.2
236	26.2	20.9	31.3



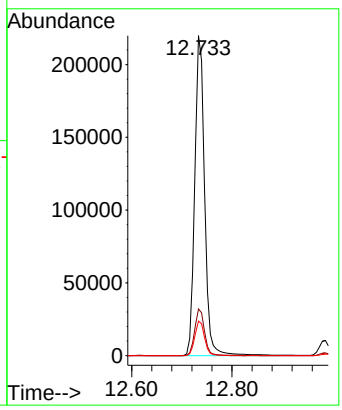


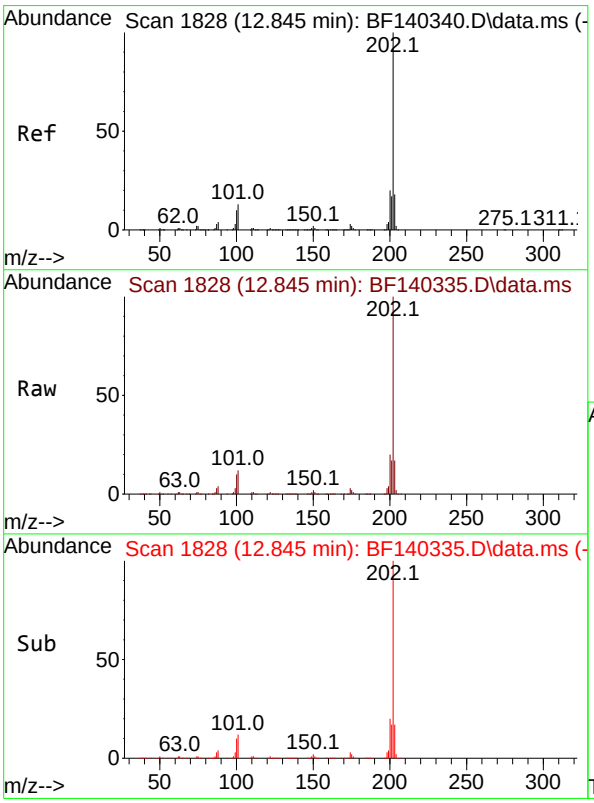
#77
Benzidine
Concen: 17.823 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 299422

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.9	17.9
183	10.8	8.6	13.0

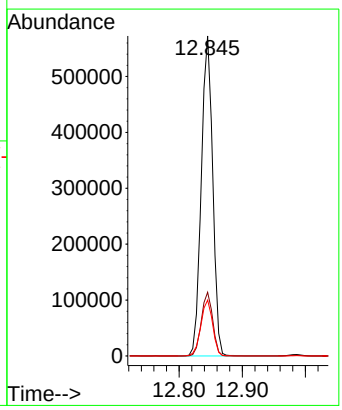


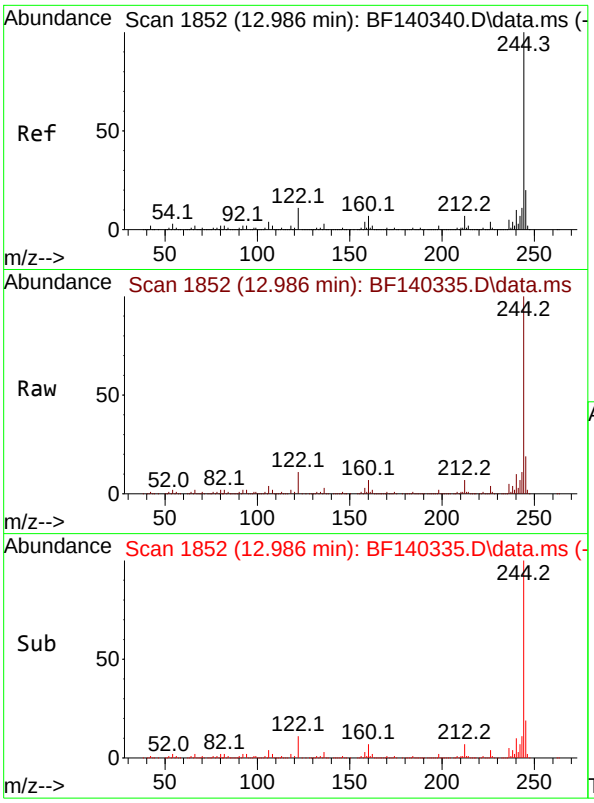


#78
Pyrene
Concen: 19.212 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:202 Resp: 719319

Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.2	24.2
203	17.4	14.2	21.4



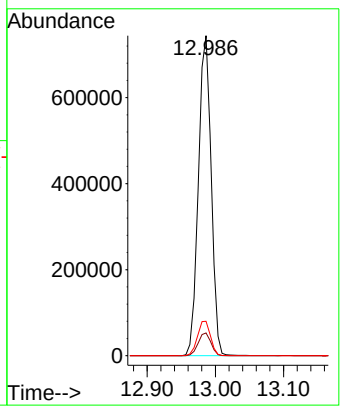


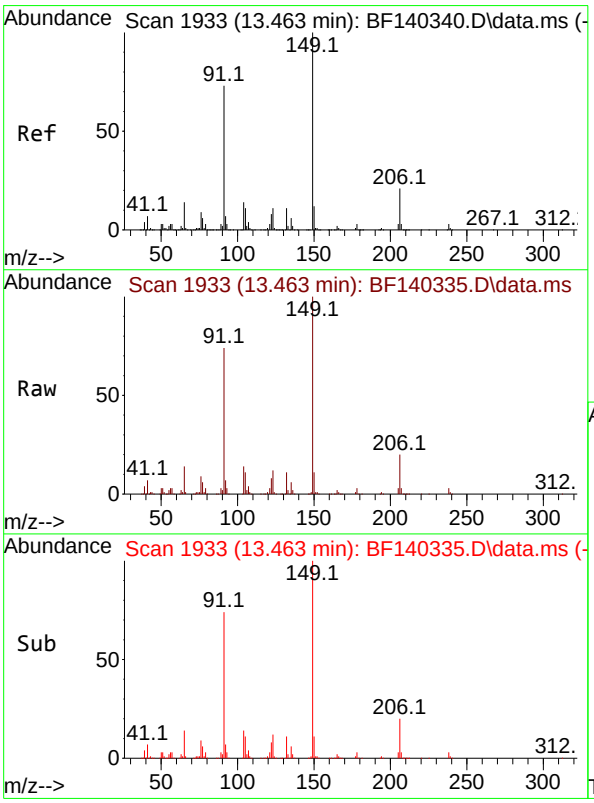
#79
Terphenyl-d14
Concen: 38.464 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 969963

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	10.8	8.8	13.2

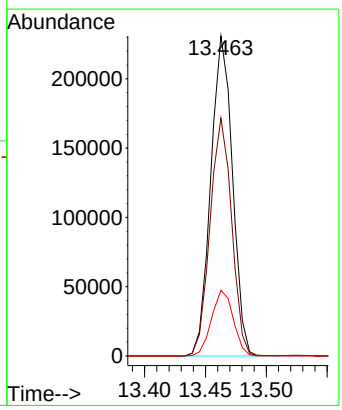


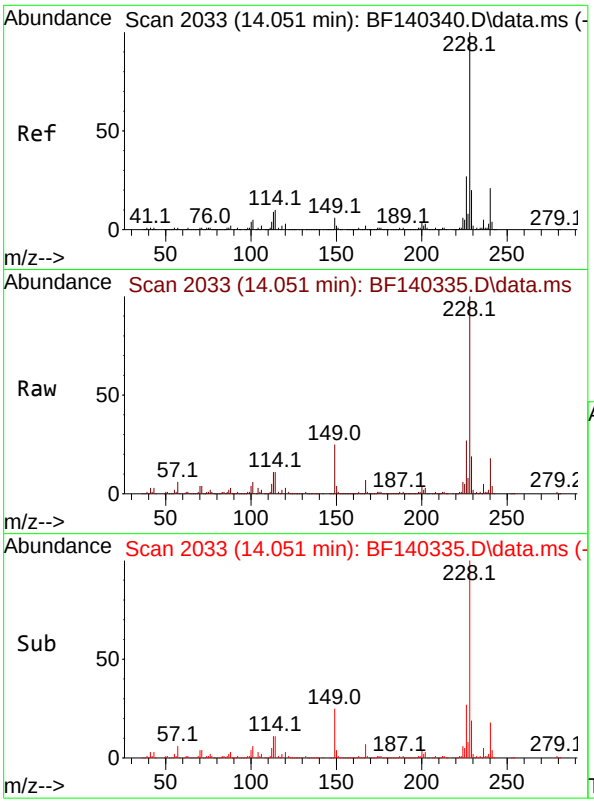


#80
Butylbenzylphthalate
Concen: 19.895 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.006 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:149 Resp: 286162

Ion	Ratio	Lower	Upper
149	100		
91	74.3	61.0	91.4
206	20.5	16.1	24.1



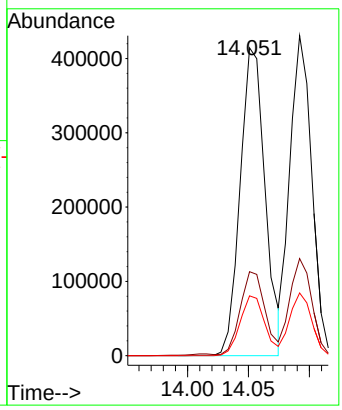


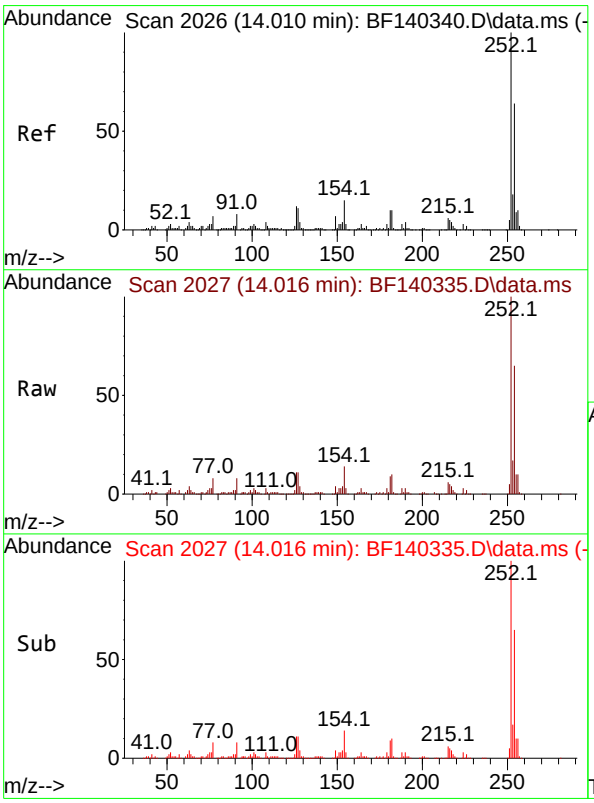
#81
Benzo(a)anthracene
Concen: 20.560 ng
RT: 14.051 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 591480

Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.2	33.4
229	19.5	15.8	23.6

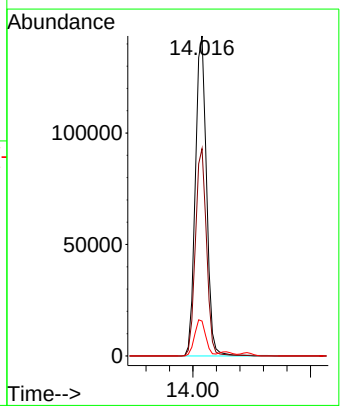


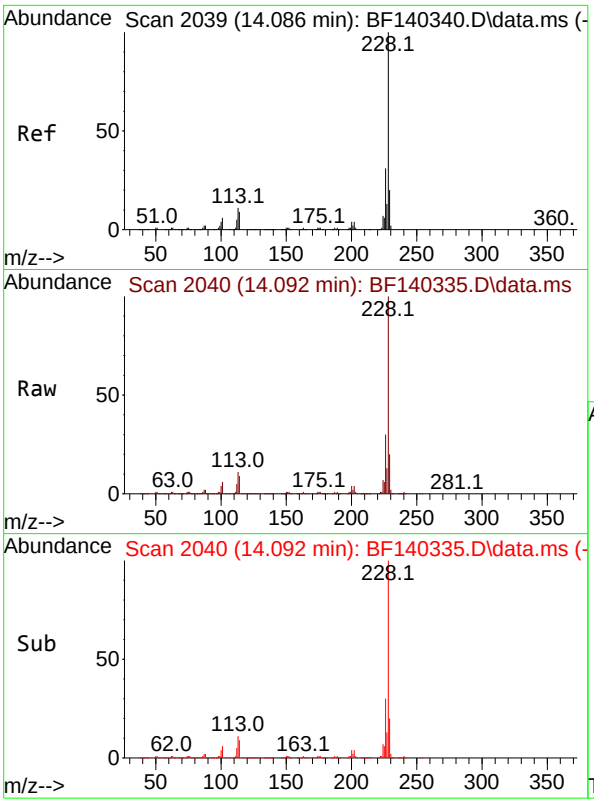


#82
3,3'-Dichlorobenzidine
Concen: 20.720 ng
RT: 14.016 min Scan# 2027
Delta R.T. 0.018 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:252 Resp: 189466

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.4	77.2
126	10.9	9.4	14.0



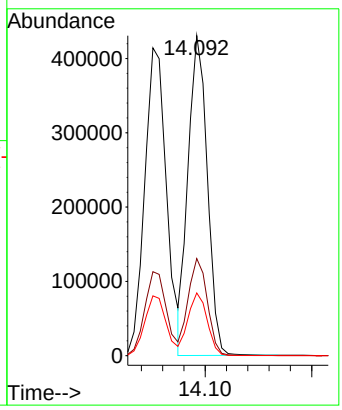


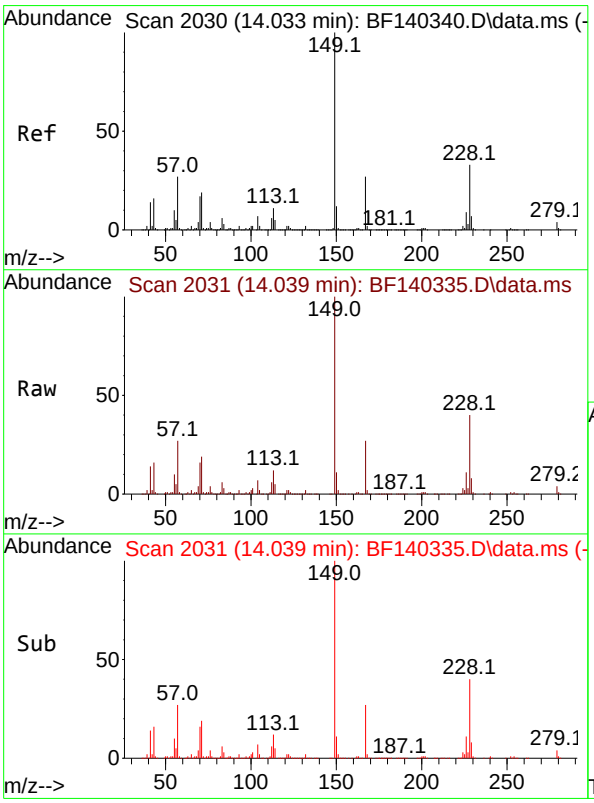
#83
Chrysene
Concen: 20.589 ng
RT: 14.092 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 540430

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.5	36.7
229	19.6	16.0	24.0

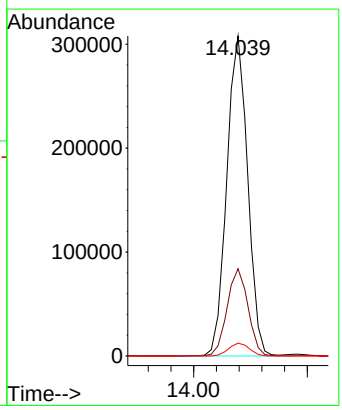


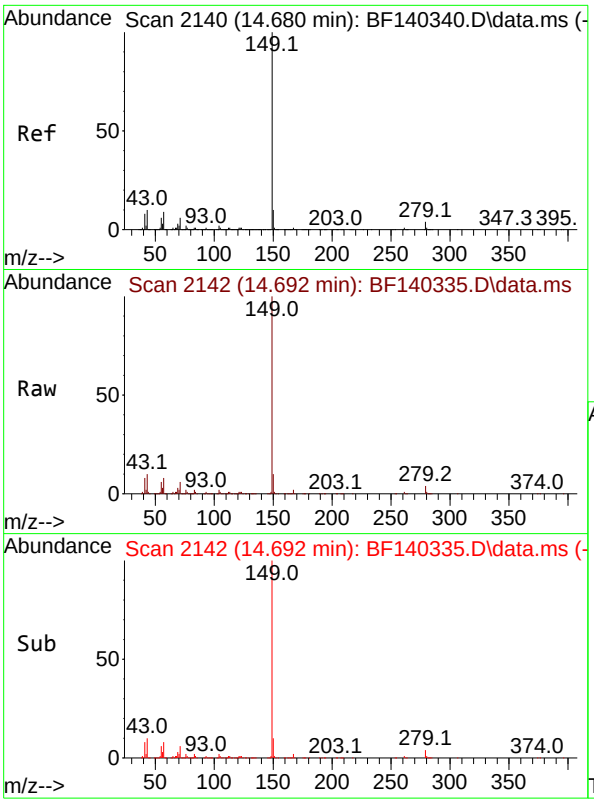


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.462 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.018 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:149 Resp: 392830

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.4	32.0
279	4.0	3.0	4.6



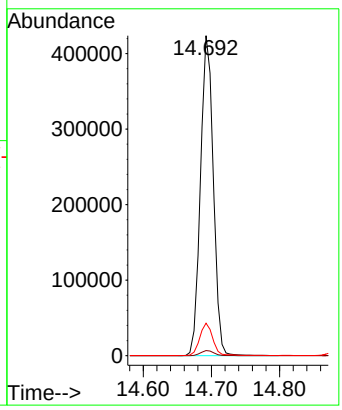


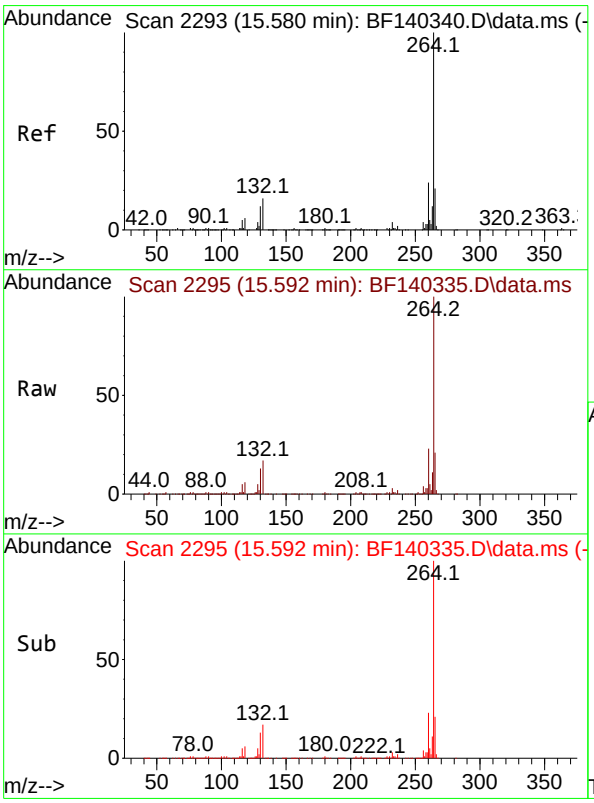
#85
Di-n-octyl phthalate
Concen: 20.567 ng
RT: 14.692 min Scan# 21
Delta R.T. 0.029 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 556097

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.2	1.8
43	10.2	8.0	12.0

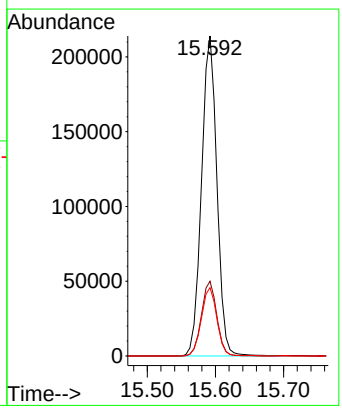


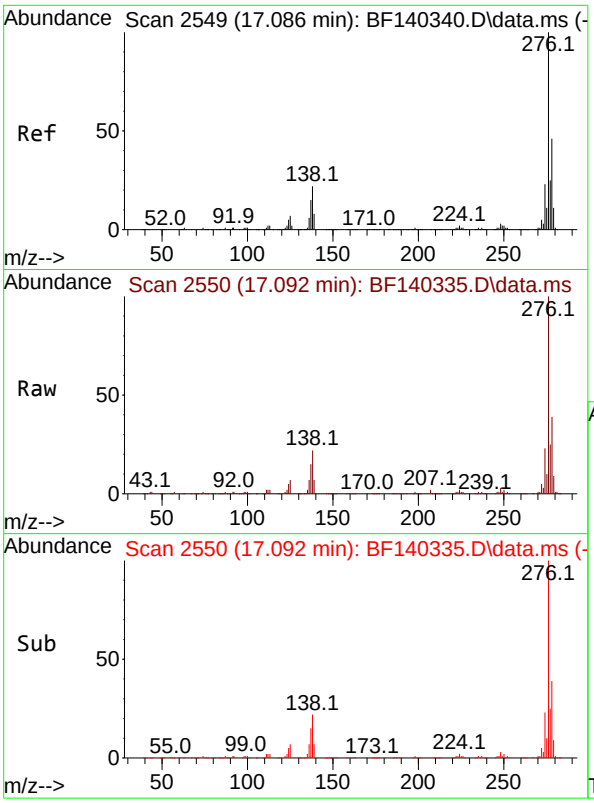


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2295
Delta R.T. 0.035 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:264 Resp: 335998

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.2	28.8
265	21.4	17.1	25.7



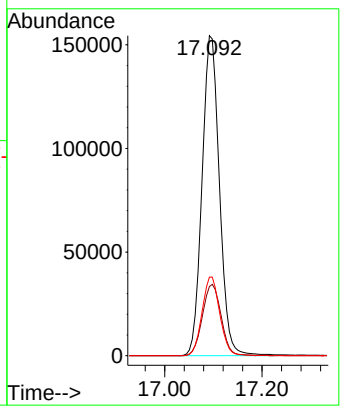


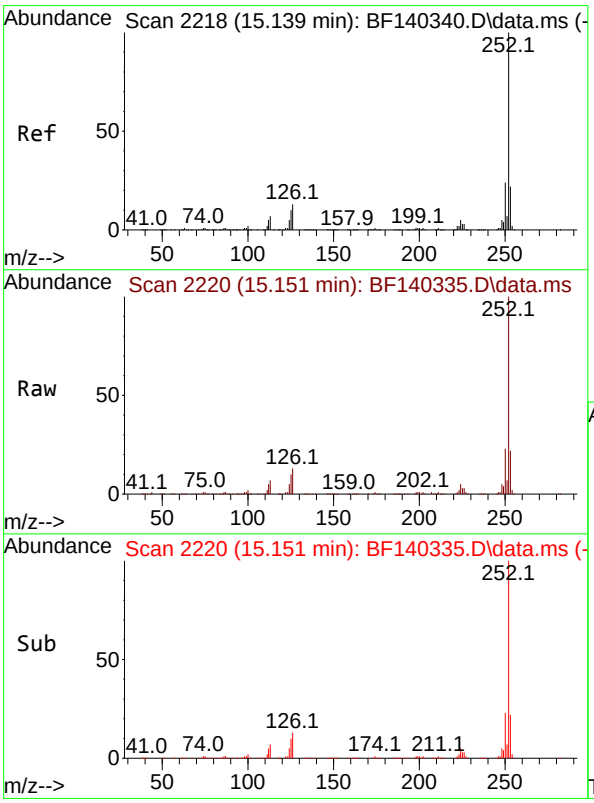
#87
Indeno(1,2,3-cd)pyrene
Concen: 18.415 ng
RT: 17.092 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 382218

Ion	Ratio	Lower	Upper
276	100		
138	24.0	18.8	28.2
277	25.0	20.2	30.2

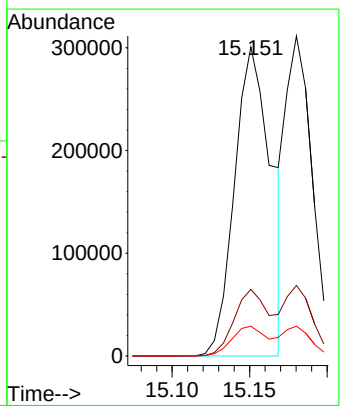


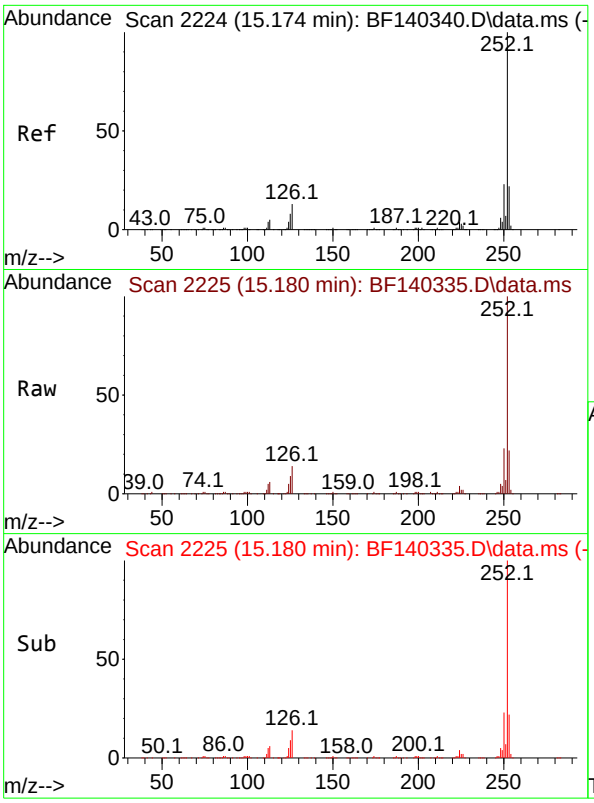


#88
Benzo(b)fluoranthene
Concen: 22.491 ng
RT: 15.151 min Scan# 2220
Delta R.T. 0.035 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:252 Resp: 494335

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	9.7	8.0	12.0



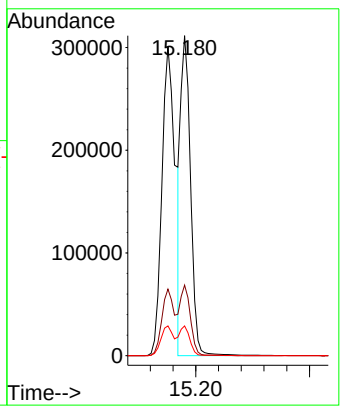


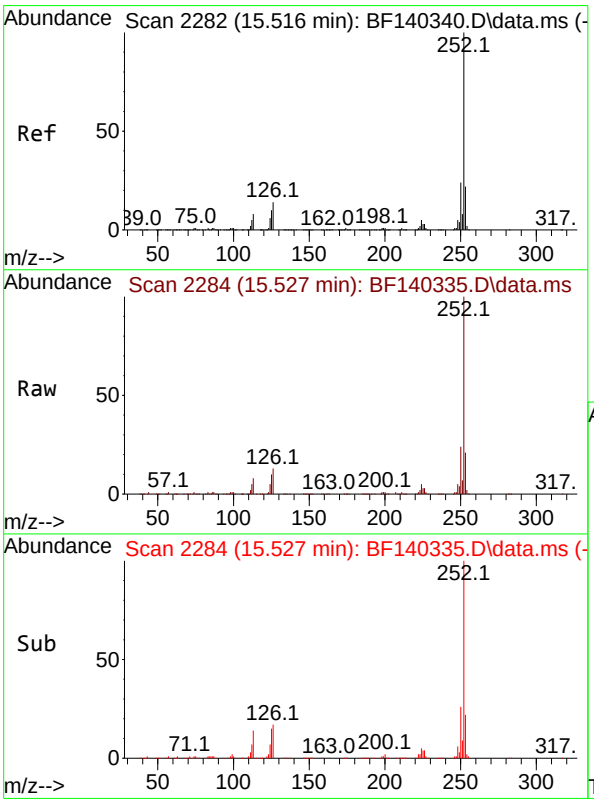
#89
Benzo(k)fluoranthene
Concen: 20.964 ng
RT: 15.180 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 376428

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.3	25.9
125	9.3	7.4	11.2

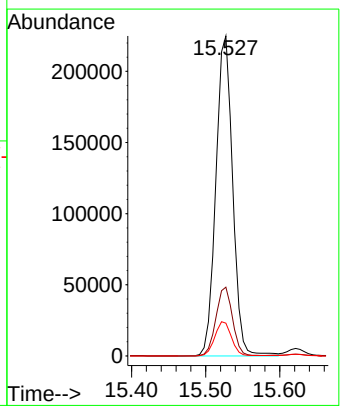


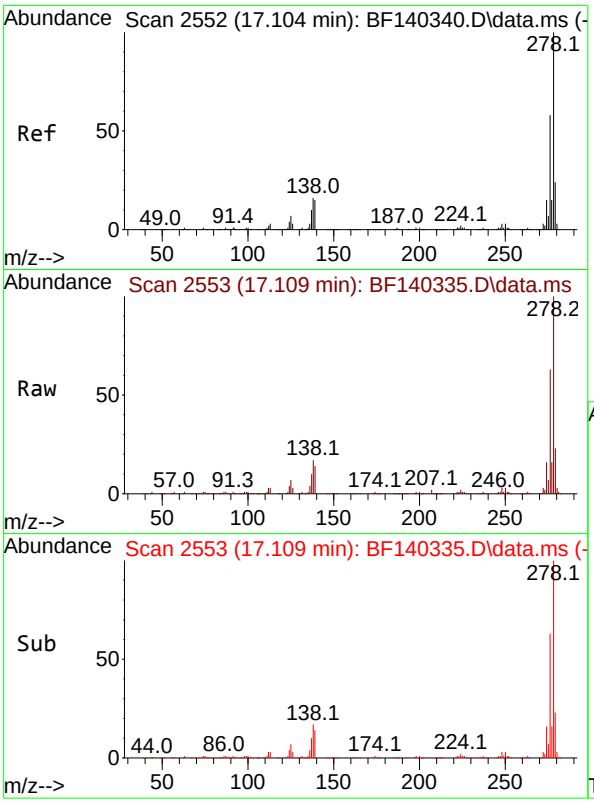


#90
Benzo(a)pyrene
Concen: 20.757 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.035 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:252 Resp: 354286

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.8	26.6
125	10.2	8.4	12.6



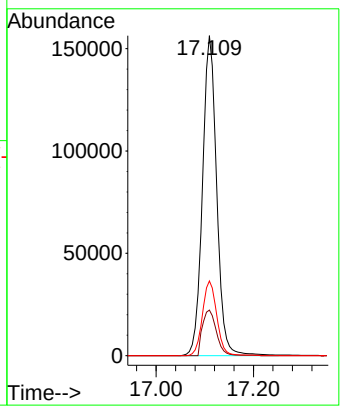


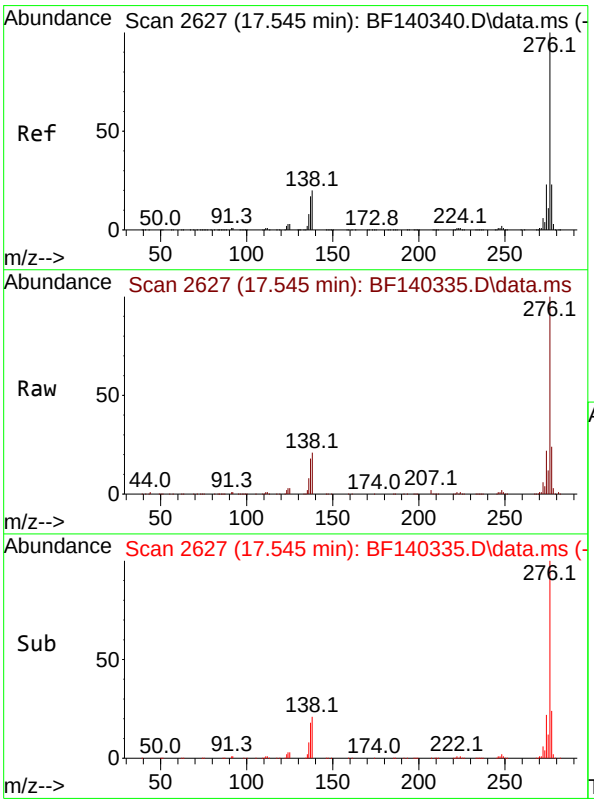
#91
Dibenzo(a,h)anthracene
Concen: 18.485 ng
RT: 17.109 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 317133

Ion	Ratio	Lower	Upper
278	100		
139	14.2	11.8	17.8
279	23.4	18.9	28.3

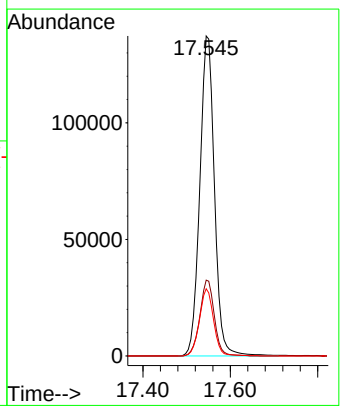




#92
Benzo(g,h,i)perylene
Concen: 18.281 ng
RT: 17.545 min Scan# 2627
Delta R.T. 0.029 min
Lab File: BF140335.D
Acq: 13 Nov 2024 10:29

Tgt Ion:276 Resp: 320648

Ion	Ratio	Lower	Upper
276	100		
277	23.7	18.6	28.0
138	21.0	16.0	24.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140337.D
Acq On : 13 Nov 2024 11:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Nov 13 14:26:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	173750	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	645813	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	355715	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	673585	20.000	ng	0.00
76) Chrysene-d12	14.057	240	373903	20.000	ng	0.00
86) Perylene-d12	15.563	264	343764	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	946604	93.020	ng	0.00
7) Phenol-d6	6.510	99	1288691	93.469	ng	0.00
23) Nitrobenzene-d5	7.445	82	1188653	95.898	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	339834	96.071	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	2000974	90.428	ng	0.00
79) Terphenyl-d14	12.992	244	2129859	98.876	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.646	88	215224	47.452	ng	99
3) Pyridine	3.410	79	516550	46.326	ng	99
4) n-Nitrosodimethylamine	3.375	42	279565	49.608	ng	97
6) Aniline	6.545	93	550294	45.882	ng	99
8) 2-Chlorophenol	6.669	128	510922	46.739	ng	98
9) Benzaldehyde	6.434	77	359475	43.503	ng	99
10) Phenol	6.528	94	687077	47.255	ng	95
11) bis(2-Chloroethyl)ether	6.616	93	533018	48.382	ng	98
12) 1,3-Dichlorobenzene	6.822	146	560974	46.511	ng	98
13) 1,4-Dichlorobenzene	6.898	146	567404	46.396	ng	99
14) 1,2-Dichlorobenzene	7.051	146	526417	46.367	ng	99
15) Benzyl Alcohol	7.022	79	477924	48.113	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	723520	47.546	ng	98
17) 2-Methylphenol	7.128	107	433403	48.196	ng	99
18) Hexachloroethane	7.392	117	217240	48.050	ng	99
19) n-Nitroso-di-n-propyla...	7.298	70	383726	46.082	ng	99
20) 3+4-Methylphenols	7.287	107	521407	46.364	ng	92
22) Acetophenone	7.292	105	700174	46.615	ng	98
24) Nitrobenzene	7.463	77	629010	48.740	ng	99
25) Isophorone	7.698	82	1056536	48.095	ng	100
26) 2-Nitrophenol	7.775	139	282885	49.397	ng	96
27) 2,4-Dimethylphenol	7.810	122	356541	48.629	ng	98
28) bis(2-Chloroethoxy)met...	7.910	93	642458	47.695	ng	100
29) 2,4-Dichlorophenol	8.016	162	439530	48.507	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	481552	47.735	ng	99
31) Naphthalene	8.181	128	1534595	46.842	ng	99
32) Benzoic acid	7.945	122	347409	53.939	ng	98
33) 4-Chloroaniline	8.234	127	538110	47.230	ng	99
34) Hexachlorobutadiene	8.298	225	304280	47.340	ng	98
35) Caprolactam	8.610	113	147323	48.359	ng	99
36) 4-Chloro-3-methylphenol	8.710	107	482944	48.095	ng	99
37) 2-Methylnaphthalene	8.869	142	985640	46.920	ng	100
38) 1-Methylnaphthalene	8.969	142	951332	46.247	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	466149	47.389	ng	99
41) Hexachlorocyclopentadiene	9.022	237	138691	54.914	ng	100
43) 2,4,6-Trichlorophenol	9.145	196	320277	49.613	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140337.D
Acq On : 13 Nov 2024 11:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Nov 13 14:26:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	344237	48.773	ng	98
46) 1,1'-Biphenyl	9.334	154	1216913	47.025	ng	99
47) 2-Chloronaphthalene	9.363	162	945855	47.981	ng	99
48) 2-Nitroaniline	9.457	65	324847	49.689	ng	98
49) Acenaphthylene	9.781	152	1406468	47.156	ng	100
50) Dimethylphthalate	9.639	163	1108191	47.796	ng	100
51) 2,6-Dinitrotoluene	9.704	165	258909	48.982	ng	99
52) Acenaphthene	9.951	154	970618	48.182	ng	99
53) 3-Nitroaniline	9.869	138	272892	49.160	ng	98
54) 2,4-Dinitrophenol	9.975	184	158026	57.974	ng	97
55) Dibenzofuran	10.122	168	1335552	46.833	ng	100
56) 4-Nitrophenol	10.028	139	213518	52.733	ng	99
57) 2,4-Dinitrotoluene	10.104	165	343847	49.427	ng	97
58) Fluorene	10.463	166	1038836	46.112	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	274144	49.236	ng	99
60) Diethylphthalate	10.333	149	1130922	47.701	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	518480	46.617	ng	98
62) 4-Nitroaniline	10.486	138	280913	49.492	ng	99
63) Azobenzene	10.616	77	1112412	47.487	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	197492	54.495	ng	99
66) n-Nitrosodiphenylamine	10.575	169	910897	46.803	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	321760	47.787	ng	99
68) Hexachlorobenzene	11.016	284	351412	46.386	ng	98
69) Atrazine	11.098	200	261515	44.413	ng	99
70) Pentachlorophenol	11.204	266	220904	54.132	ng	99
71) Phenanthrene	11.428	178	1461484	46.188	ng	100
72) Anthracene	11.480	178	1447653	46.682	ng	100
73) Carbazole	11.633	167	1425182	46.543	ng	100
74) Di-n-butylphthalate	11.963	149	1745220	47.487	ng	100
75) Fluoranthene	12.616	202	1620115	45.637	ng	99
77) Benzidine	12.739	184	693785	48.345	ng	99
78) Pyrene	12.851	202	1615345	50.507	ng	99
80) Butylbenzylphthalate	13.463	149	626234	50.971	ng	97
81) Benzo(a)anthracene	14.045	228	1148657	46.743	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	379732	48.617	ng	99
83) Chrysene	14.086	228	1062734	47.398	ng	100
84) Bis(2-ethylhexyl)phtha...	14.027	149	801820	48.894	ng	100
85) Di-n-octyl phthalate	14.668	149	1109314	48.030	ng	99
87) Indeno(1,2,3-cd)pyrene	17.074	276	1130711	53.247	ng	100
88) Benzo(b)fluoranthene	15.127	252	1061367	47.198	ng	100
89) Benzo(k)fluoranthene	15.157	252	818554	44.558	ng	99
90) Benzo(a)pyrene	15.504	252	833765	47.745	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	923159	52.593	ng	99
92) Benzo(g,h,i)perylene	17.533	276	963891	53.714	ng	99

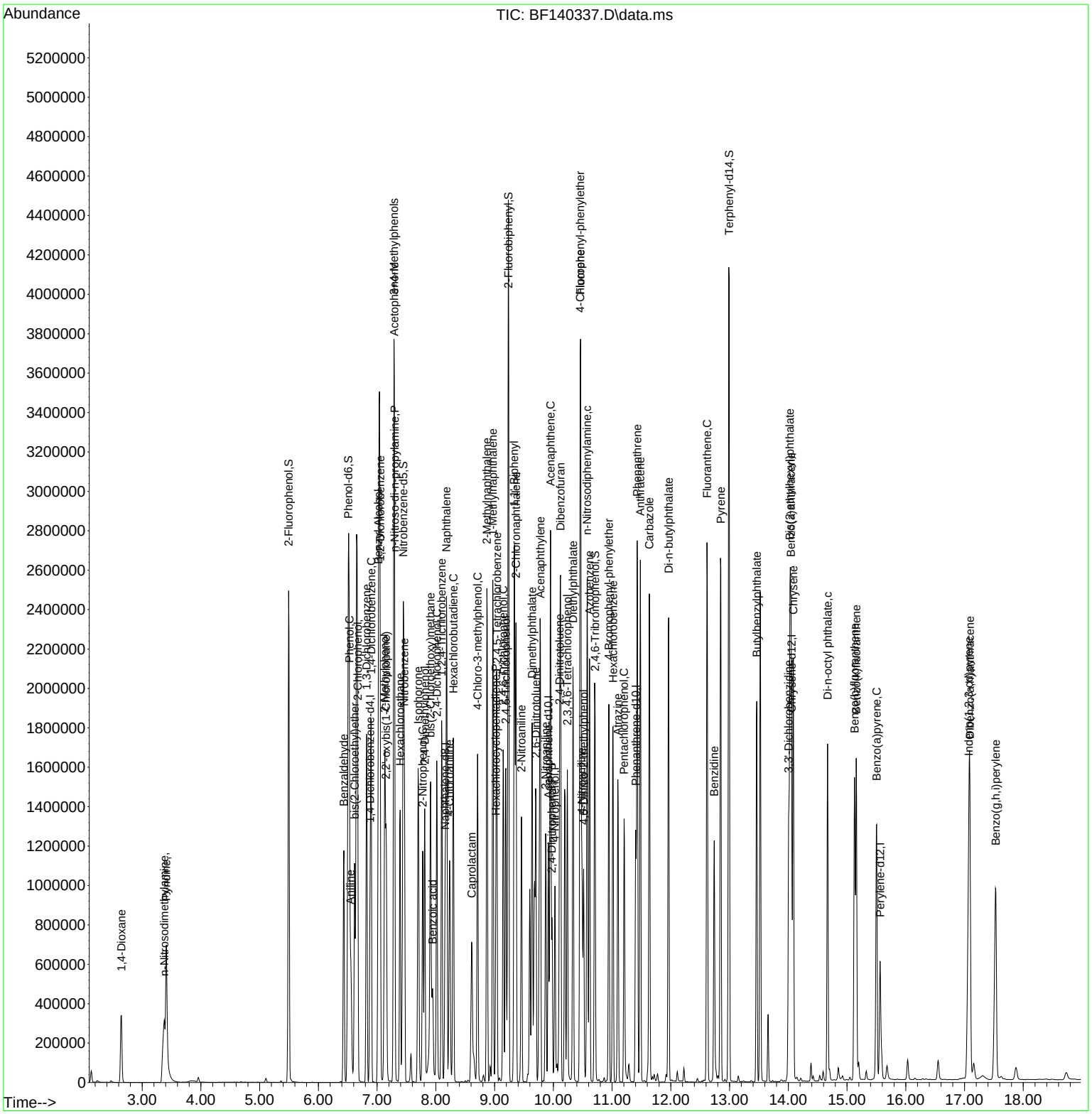
(#) = qualifier out of range (m) = manual integration (+) = signals summed

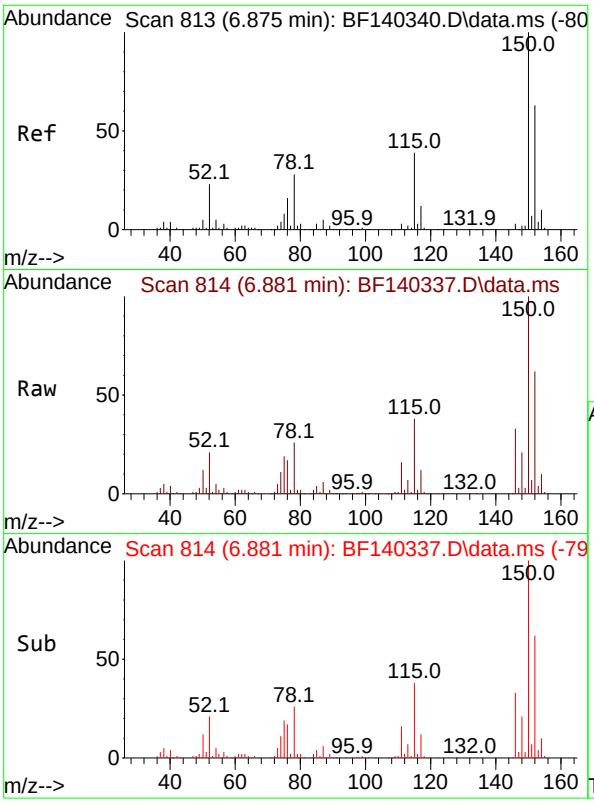
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140337.D
Acq On : 13 Nov 2024 11:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Nov 13 14:26:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



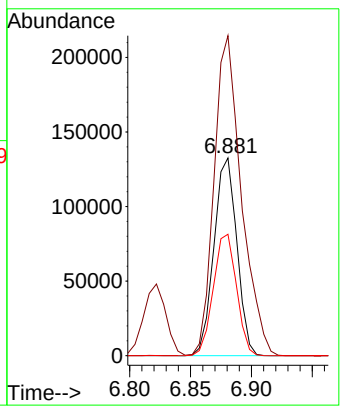


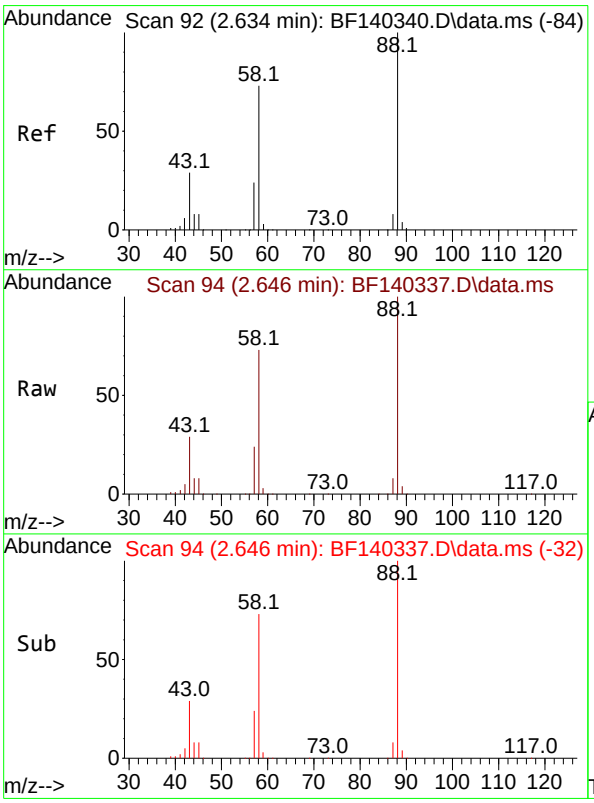
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 173750

Ion	Ratio	Lower	Upper
152	100		
150	161.8	127.4	191.0
115	61.4	47.4	71.2

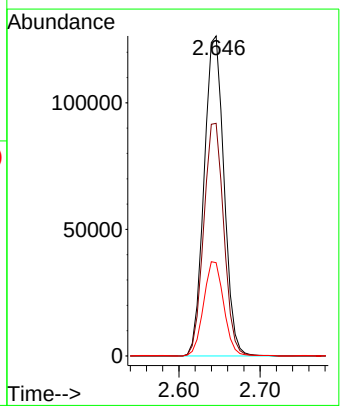


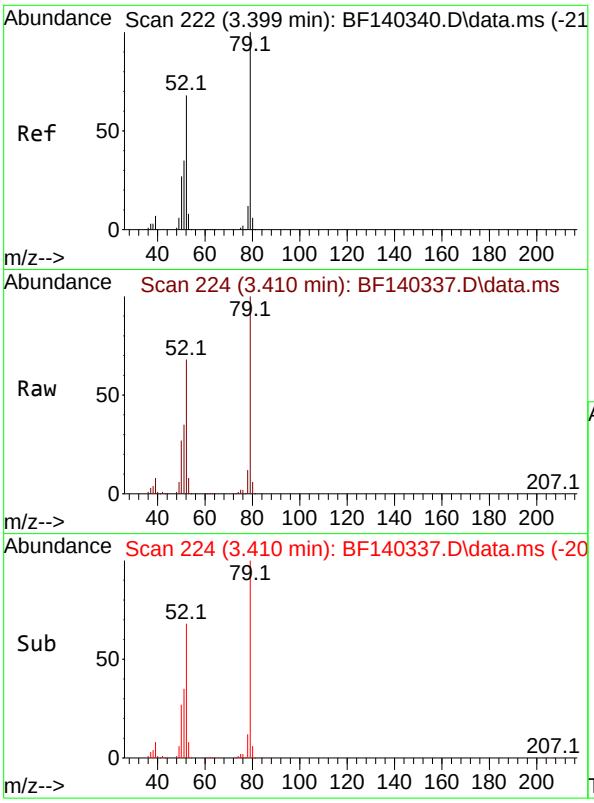


#2
1,4-Dioxane
Concen: 47.452 ng
RT: 2.646 min Scan# 94
Delta R.T. 0.012 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion: 88 Resp: 215224

Ion	Ratio	Lower	Upper
88	100		
58	73.3	59.5	89.3
43	29.9	23.4	35.2



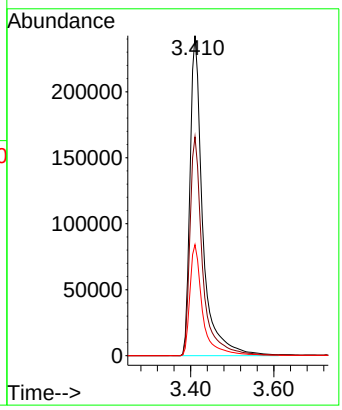


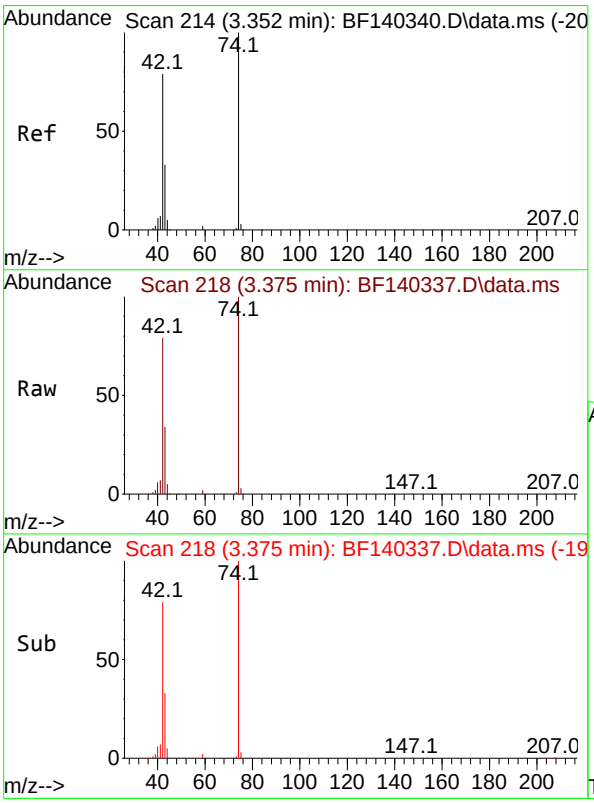
#3
Pyridine
Concen: 46.326 ng
RT: 3.410 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 516550

Ion	Ratio	Lower	Upper
79	100		
52	68.4	53.8	80.6
51	34.7	27.3	40.9

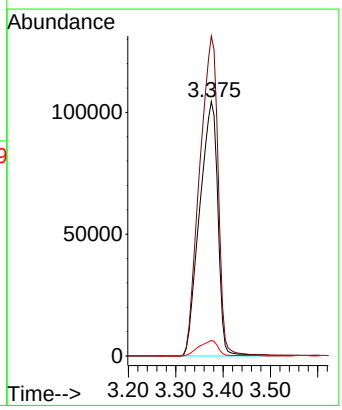


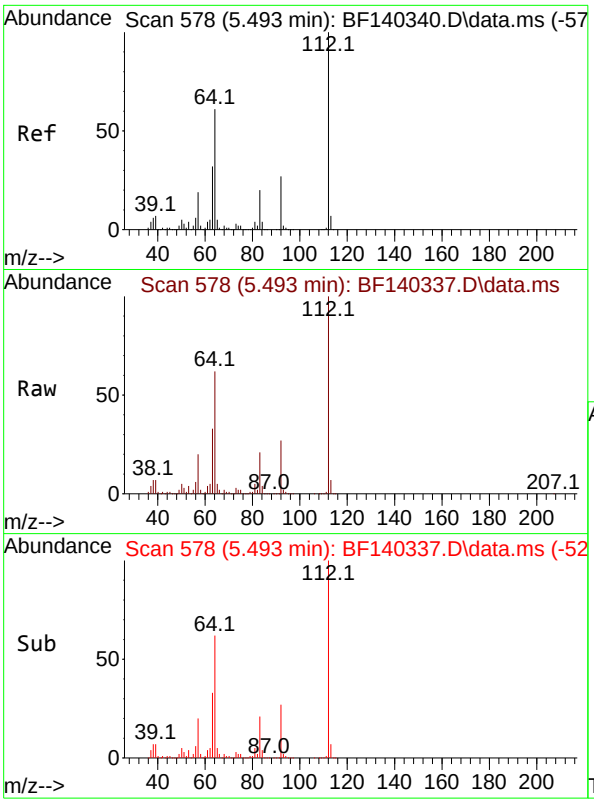


#4
n-Nitrosodimethylamine
Concen: 49.608 ng
RT: 3.375 min Scan# 218
Delta R.T. 0.018 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion: 42 Resp: 279565

Ion	Ratio	Lower	Upper
42	100		
74	125.8	103.5	155.3
44	6.1	5.1	7.7



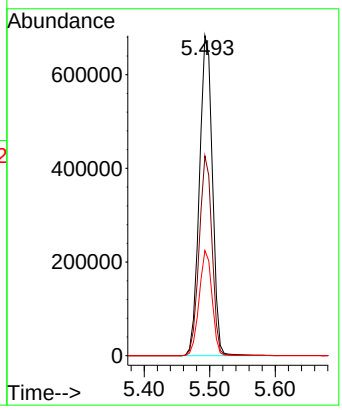


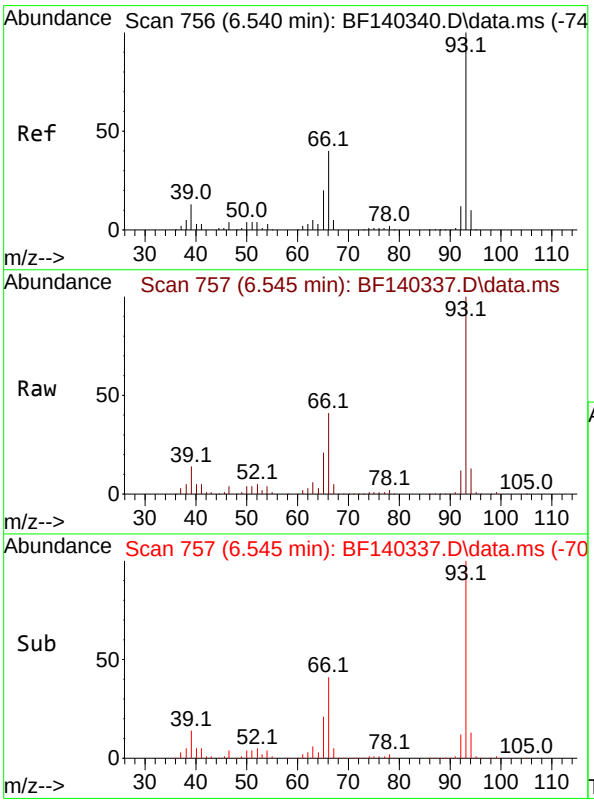
#5
2-Fluorophenol
Concen: 93.020 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 946604

Ion	Ratio	Lower	Upper
112	100		
64	62.4	49.2	73.8
63	32.9	25.6	38.4

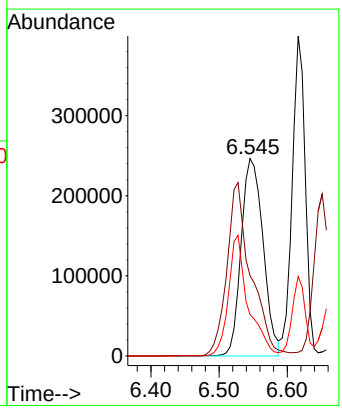


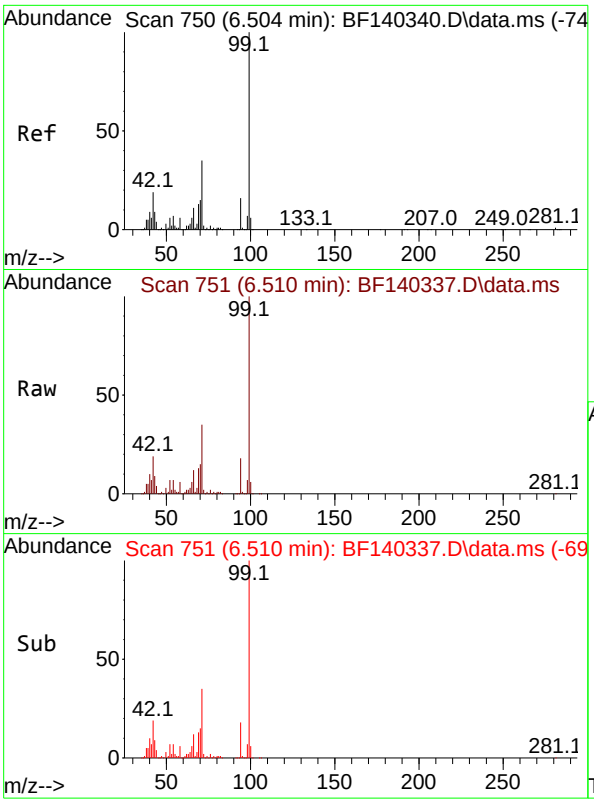


#6
Aniline
Concen: 45.882 ng
RT: 6.545 min Scan# 757
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion: 93 Resp: 550294

Ion	Ratio	Lower	Upper
93	100		
66	40.7	32.8	49.2
65	21.0	16.6	25.0



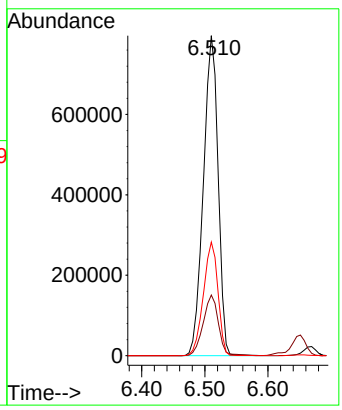


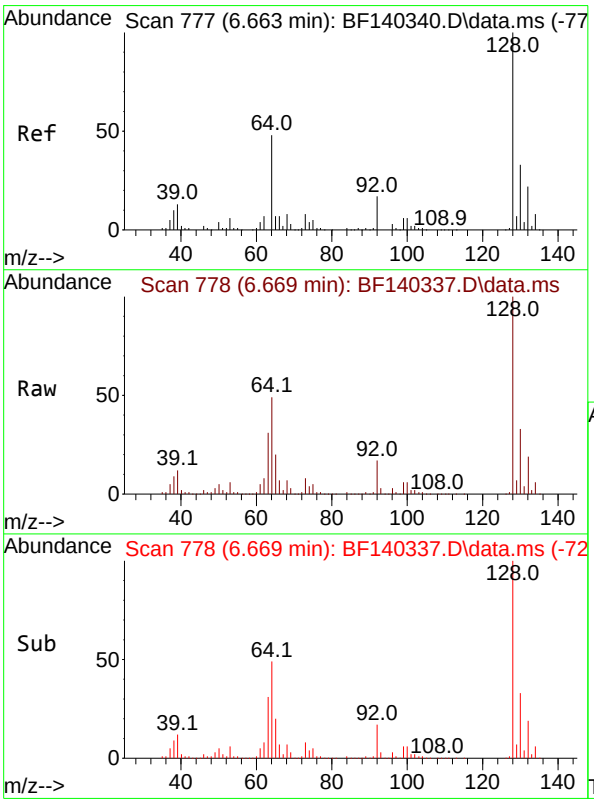
#7
Phenol-d6
Concen: 93.469 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 1288691

Ion	Ratio	Lower	Upper
99	100		
42	18.9	15.1	22.7
71	35.5	27.9	41.9

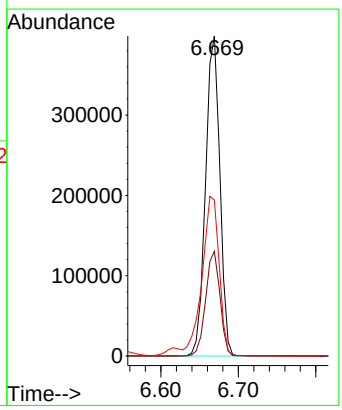


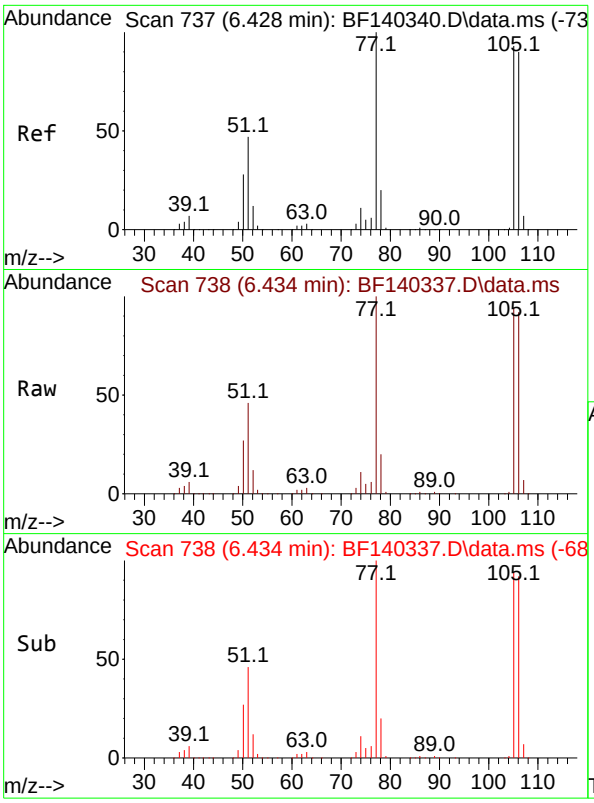


#8
2-Chlorophenol
Concen: 46.739 ng
RT: 6.669 min Scan# 778
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:128 Resp: 510922

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.2	52.2
64	48.7	30.2	70.2



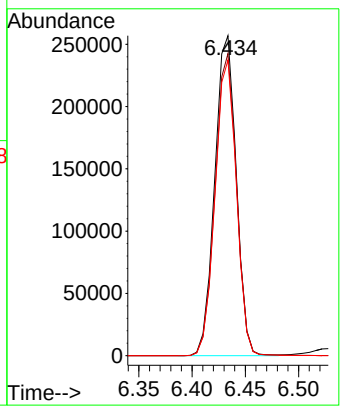


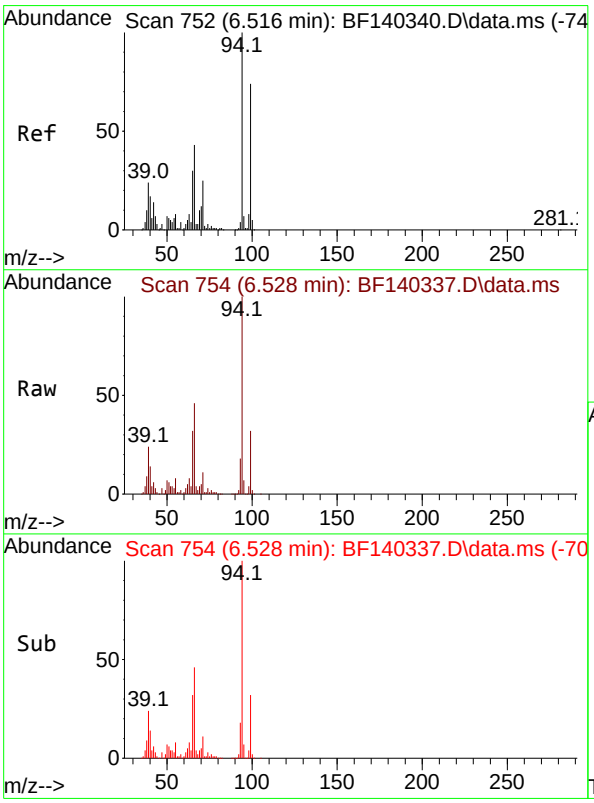
#9
Benzaldehyde
Concen: 43.503 ng
RT: 6.434 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 359475

Ion	Ratio	Lower	Upper
77	100		
105	94.4	74.4	114.4
106	92.4	69.9	109.9

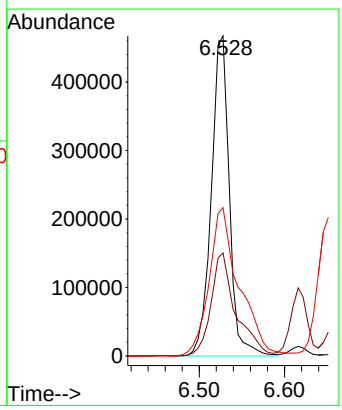


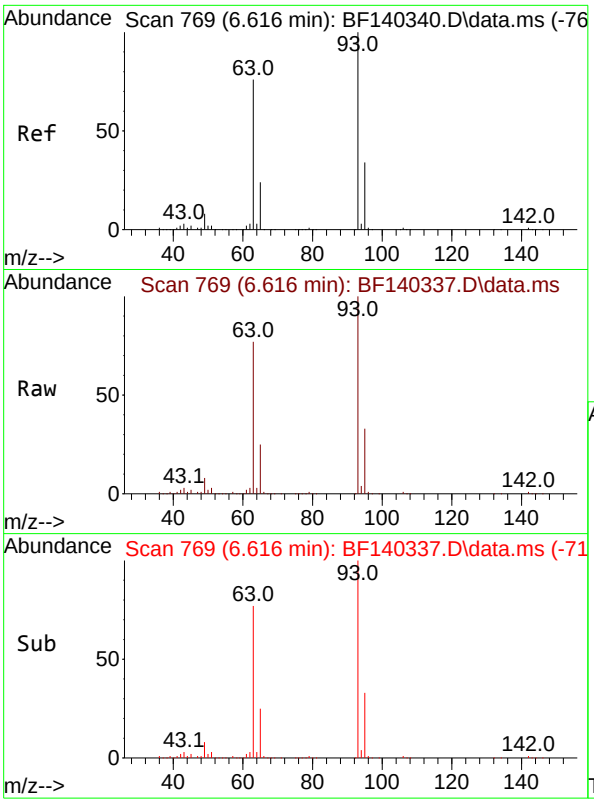


#10
Phenol
Concen: 47.255 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion: 94 Resp: 687077

Ion	Ratio	Lower	Upper
94	100		
65	32.2	10.4	50.4
66	46.3	22.9	62.9



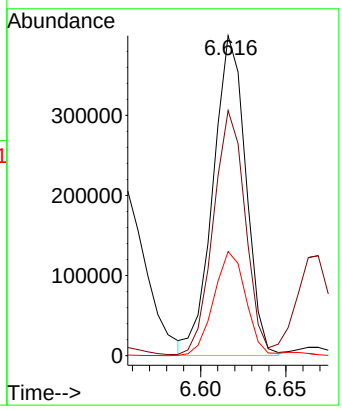


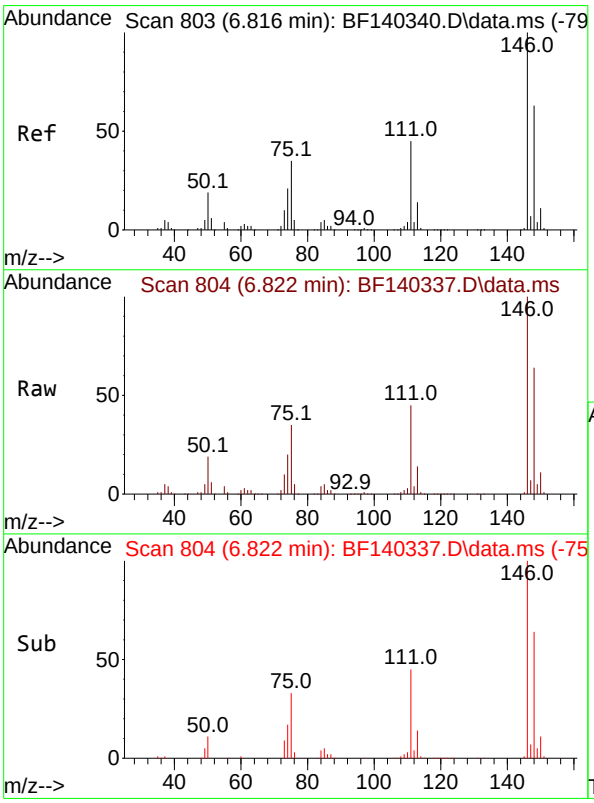
#11
bis(2-Chloroethyl)ether
Concen: 48.382 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 533018

Ion	Ratio	Lower	Upper
93	100		
63	76.6	54.0	94.0
95	32.5	12.9	52.9

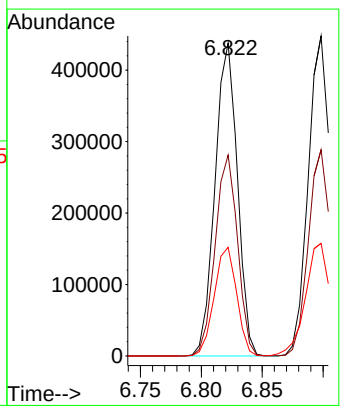


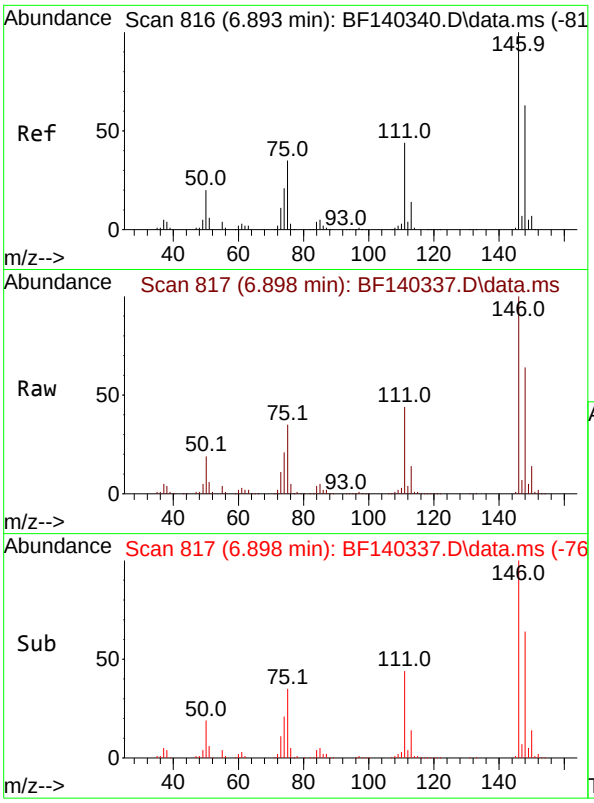


#12
1,3-Dichlorobenzene
Concen: 46.511 ng
RT: 6.822 min Scan# 804
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:146 Resp: 560974

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.7	76.1
75	34.7	26.4	39.6



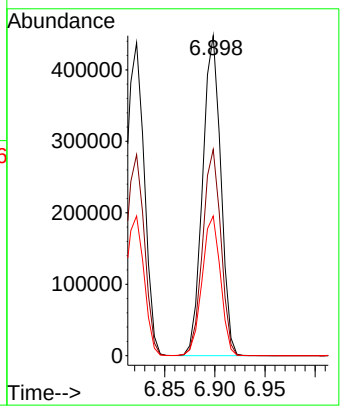


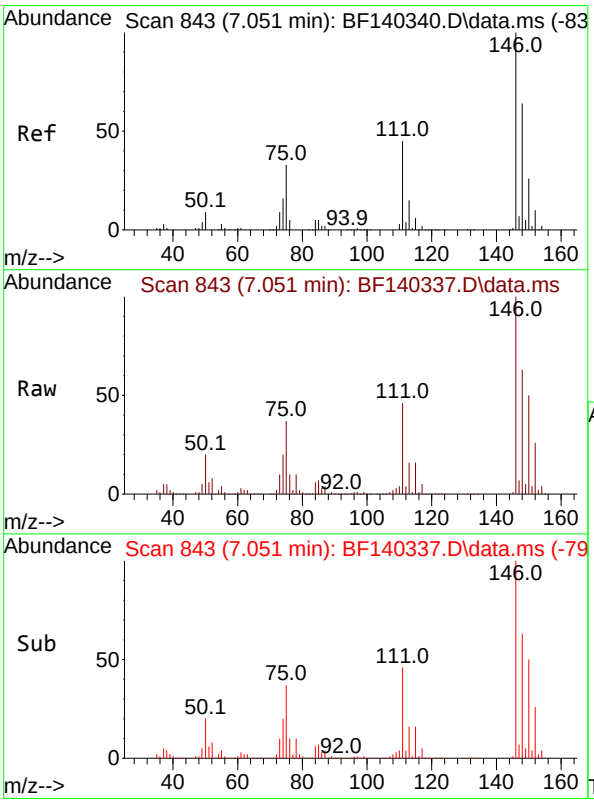
#13
1,4-Dichlorobenzene
Concen: 46.396 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 567404

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.8	76.2
111	43.7	34.2	51.2

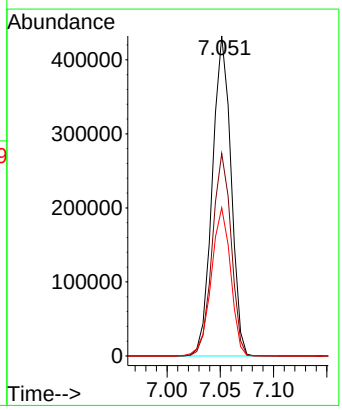


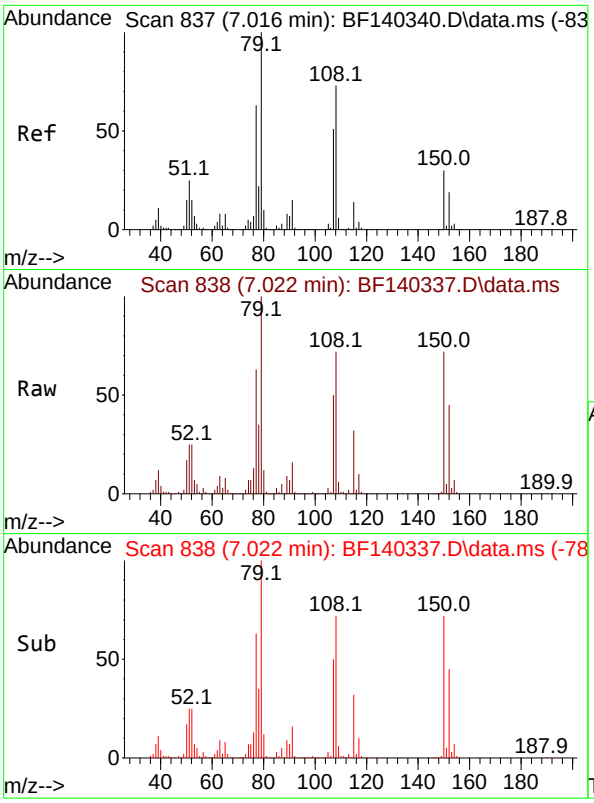


#14
1,2-Dichlorobenzene
Concen: 46.367 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:146 Resp: 526417

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.2	76.8
111	46.3	36.5	54.7



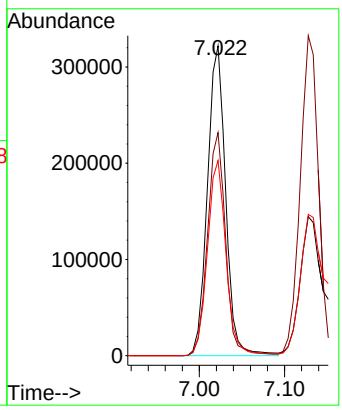


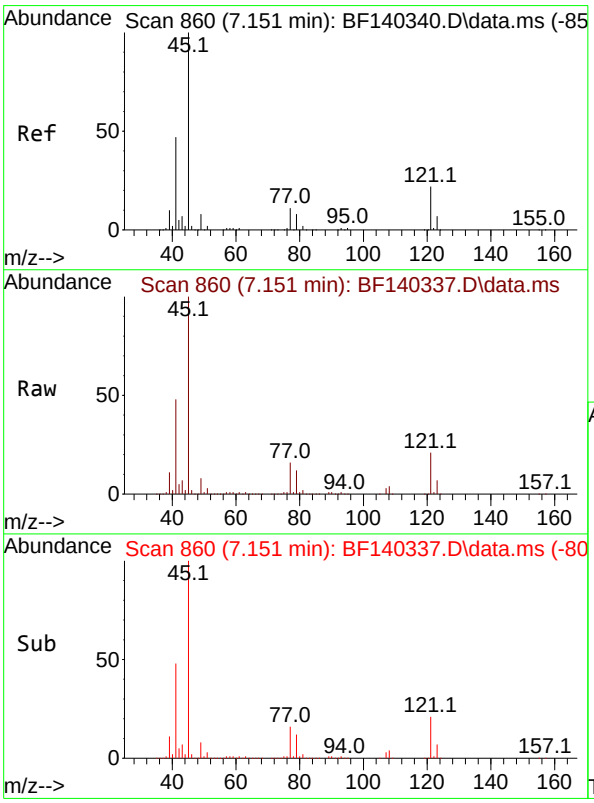
#15
Benzyl Alcohol
Concen: 48.113 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 477924

Ion	Ratio	Lower	Upper
79	100		
108	72.0	57.8	86.6
77	63.0	49.8	74.6

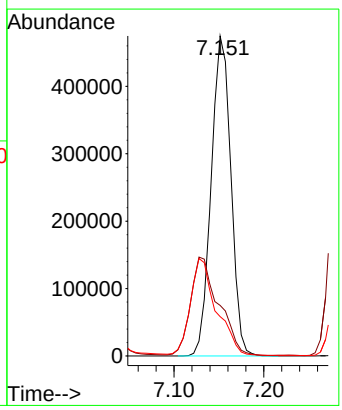


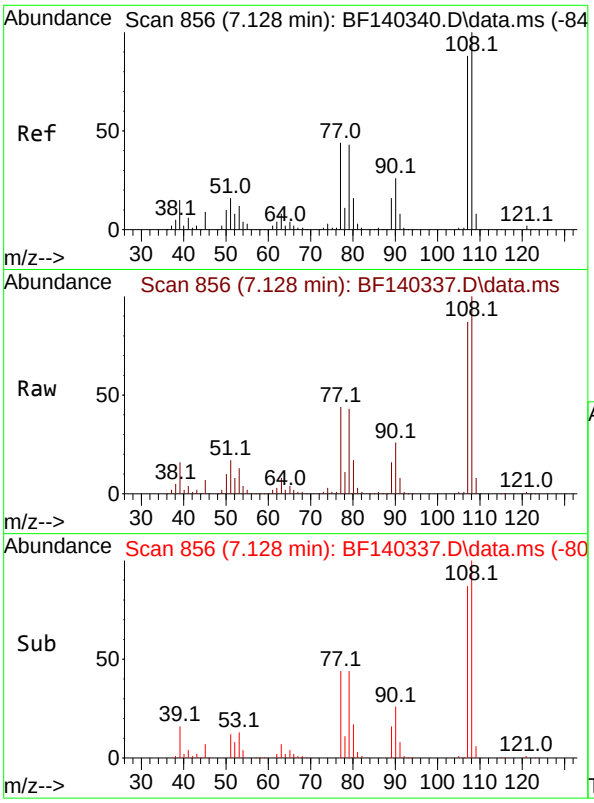


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.546 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion: 45 Resp: 723520

Ion	Ratio	Lower	Upper
45	100		
77	15.8	0.0	34.8
79	12.3	0.0	31.4



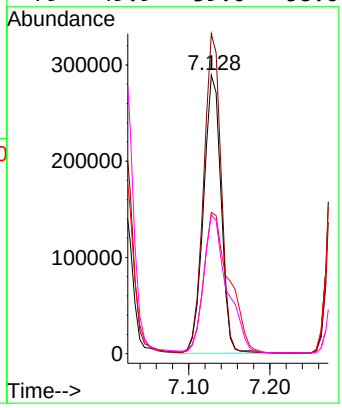


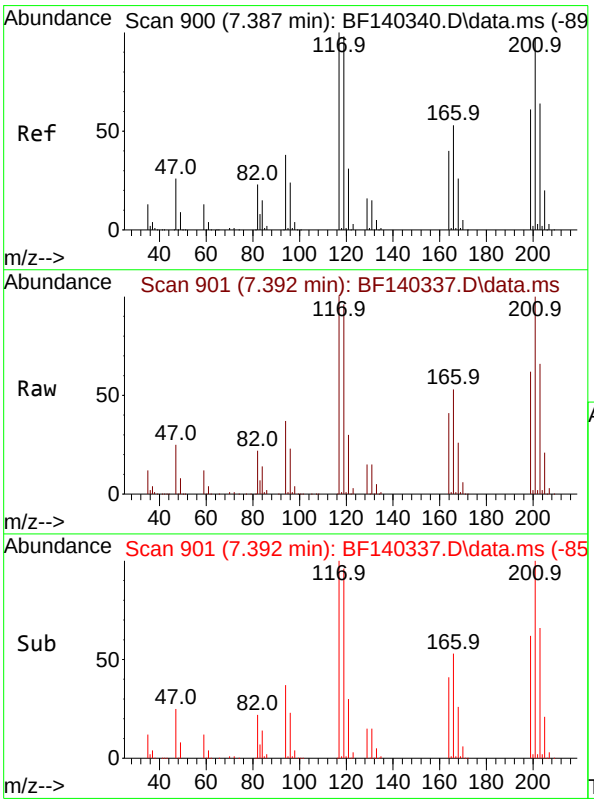
#17
2-Methylphenol
Concen: 48.196 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 433403

Ion	Ratio	Lower	Upper
107	100		
108	114.9	91.9	137.9
77	50.7	39.7	59.5
79	49.9	39.0	58.6

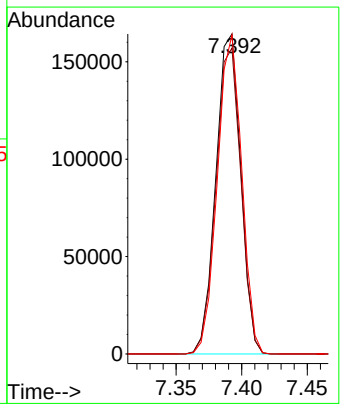


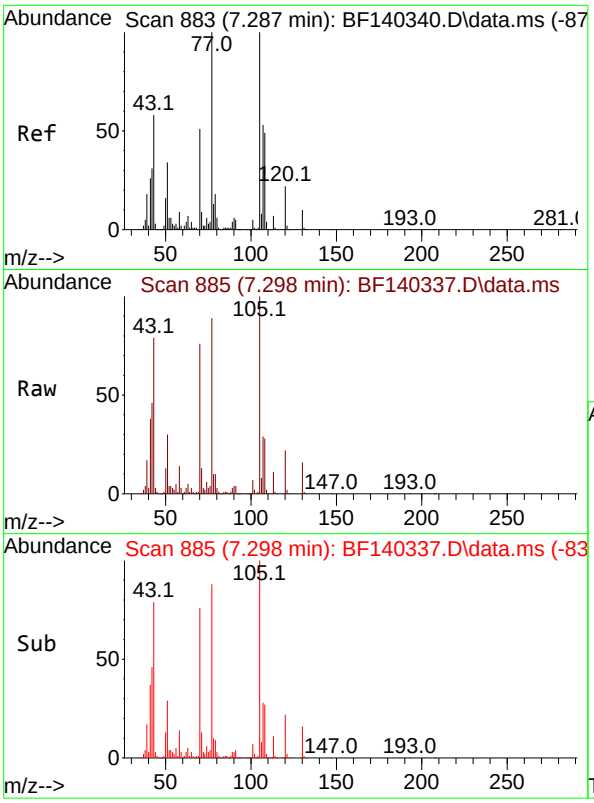


#18
Hexachloroethane
Concen: 48.050 ng
RT: 7.392 min Scan# 901
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:117 Resp: 217240

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.9	115.3
201	99.7	80.2	120.4



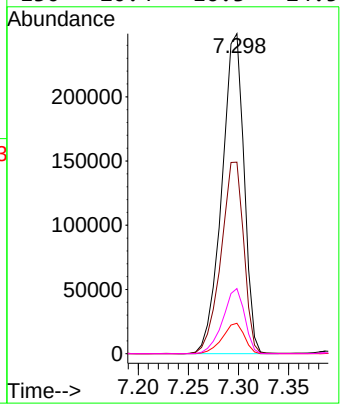


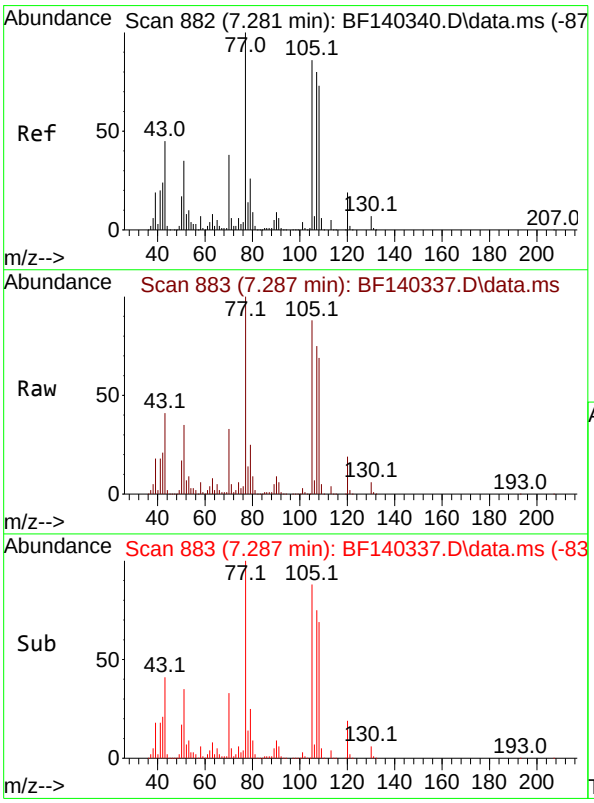
#19
n-Nitroso-di-n-propylamine
Concen: 46.082 ng
RT: 7.298 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 383726

Ion	Ratio	Lower	Upper
70	100		
42	59.9	46.8	70.2
101	9.5	7.5	11.3
130	20.4	16.3	24.5

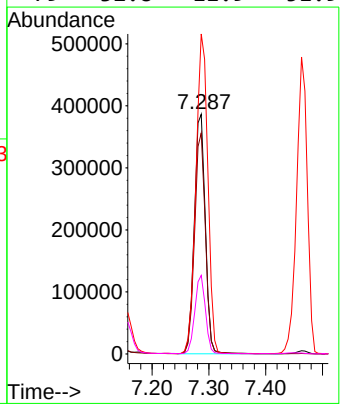


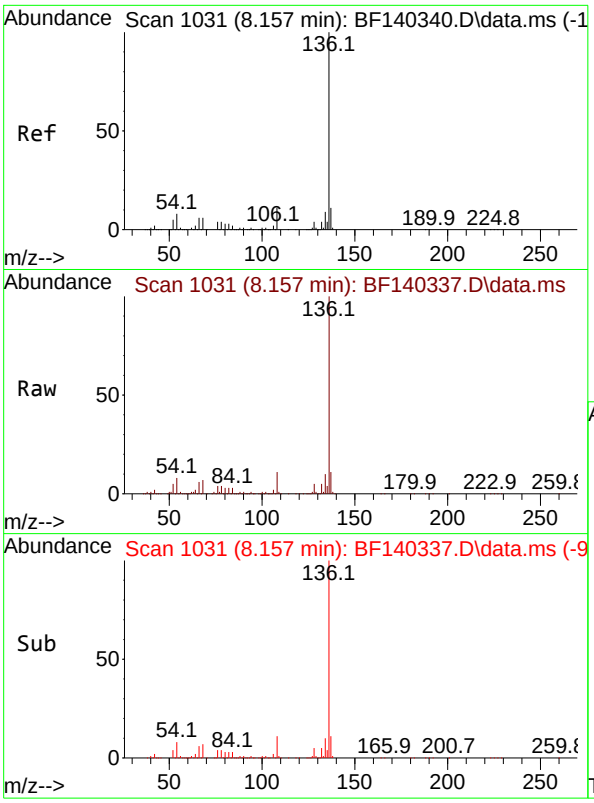


#20
3+4-Methylphenols
Concen: 46.364 ng
RT: 7.287 min Scan# 883
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:107 Resp: 521407

Ion	Ratio	Lower	Upper
107	100		
108	92.2	71.4	111.4
77	133.5	97.0	137.0
79	32.8	11.9	51.9



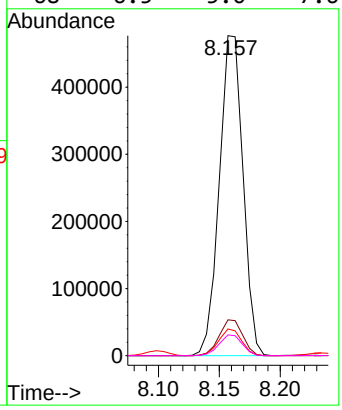


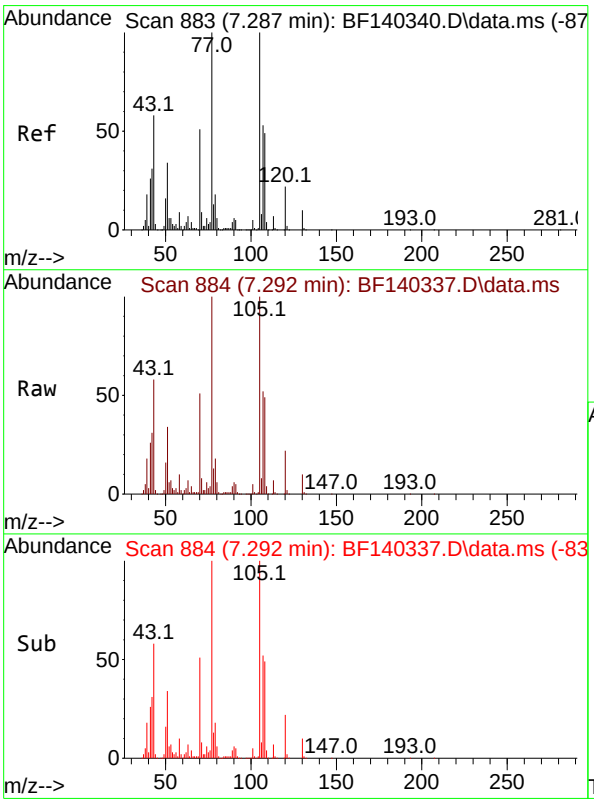
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 645813

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.7	13.1
54	8.3	6.5	9.7
68	6.5	5.0	7.6

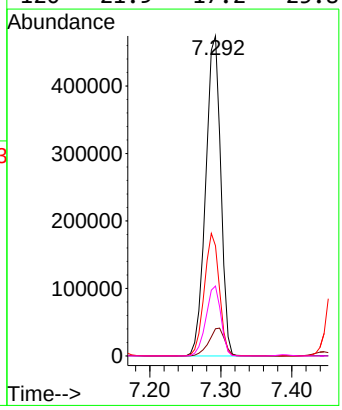


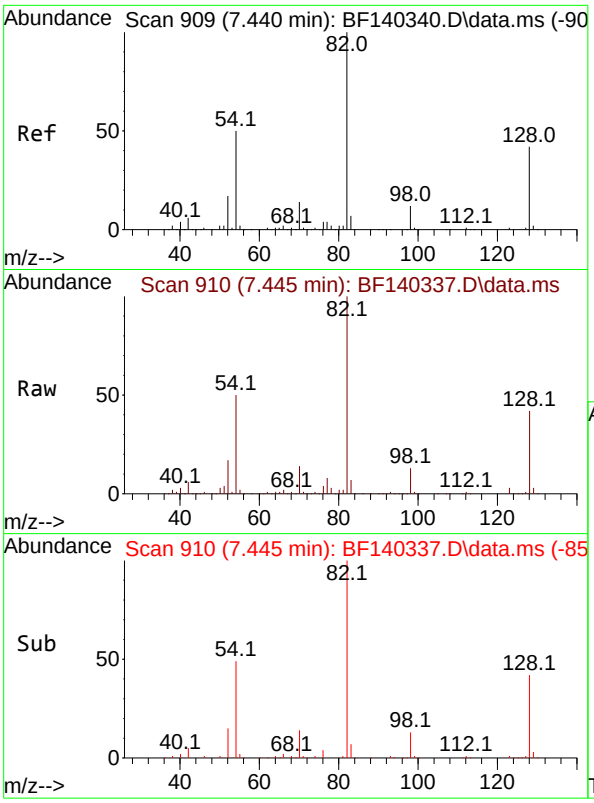


#22
Acetophenone
Concen: 46.615 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:105 Resp: 700174

Ion	Ratio	Lower	Upper
105	100		
71	8.5	6.9	10.3
51	34.4	28.6	43.0
120	21.9	17.2	25.8



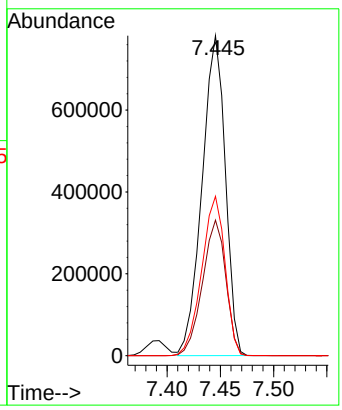


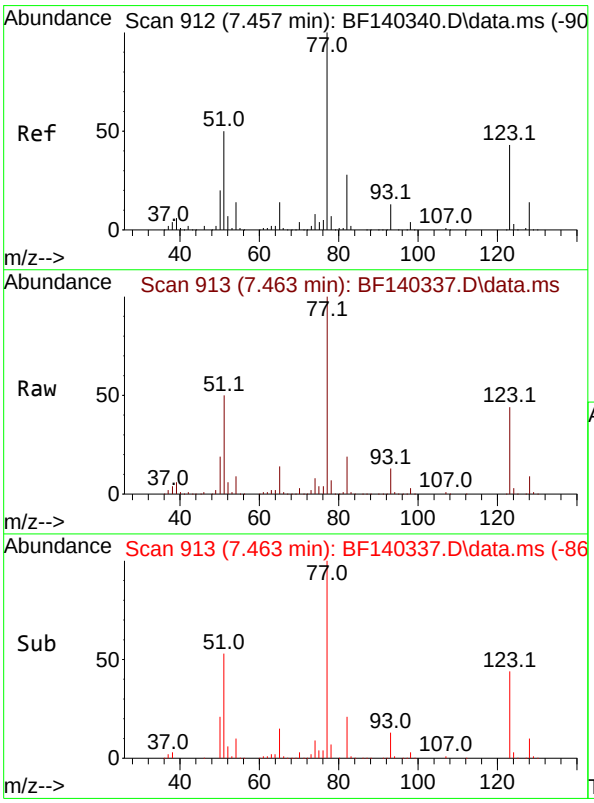
#23
Nitrobenzene-d5
Concen: 95.898 ng
RT: 7.445 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1188653

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.3	49.9
54	49.8	39.8	59.8

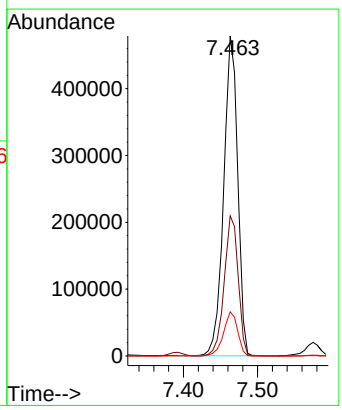


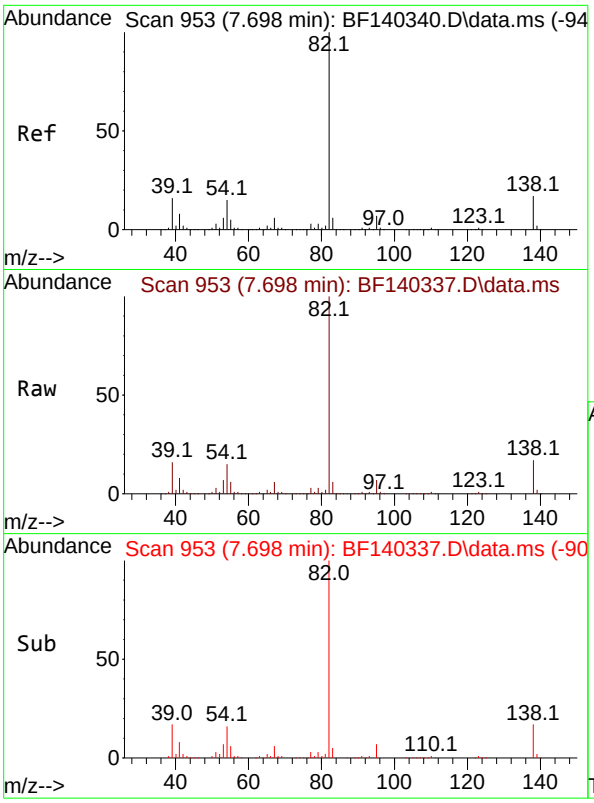


#24
Nitrobenzene
Concen: 48.740 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion: 77 Resp: 629010

Ion	Ratio	Lower	Upper
77	100		
123	43.8	35.4	53.0
65	13.8	11.1	16.7



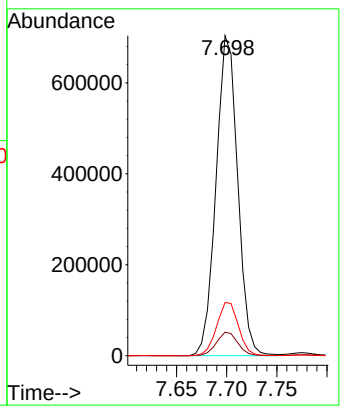


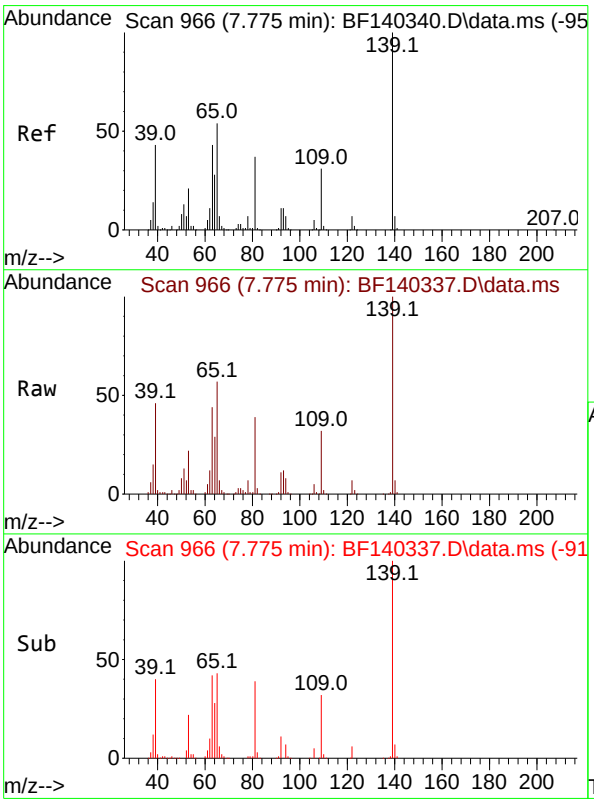
#25
Isophorone
Concen: 48.095 ng
RT: 7.698 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1056536

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.9	8.9
138	16.7	13.4	20.2

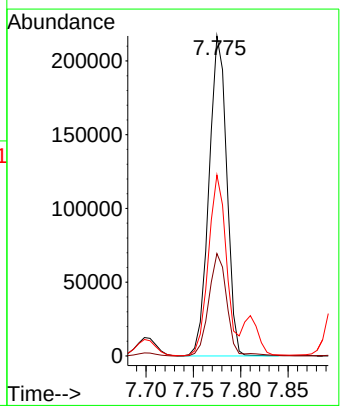


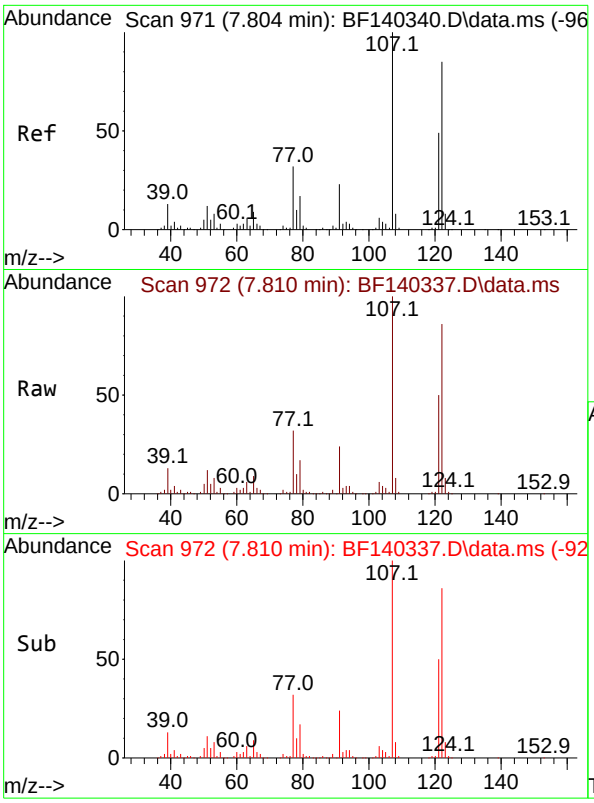


#26
2-Nitrophenol
Concen: 49.397 ng
RT: 7.775 min Scan# 966
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:139 Resp: 282885

Ion	Ratio	Lower	Upper
139	100		
109	32.0	24.4	36.6
65	56.5	42.8	64.2



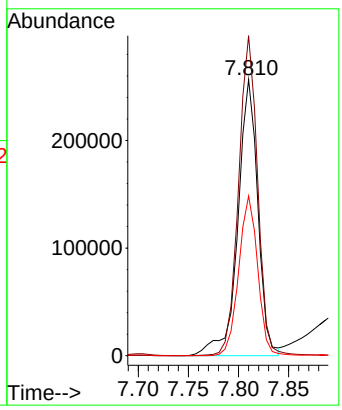


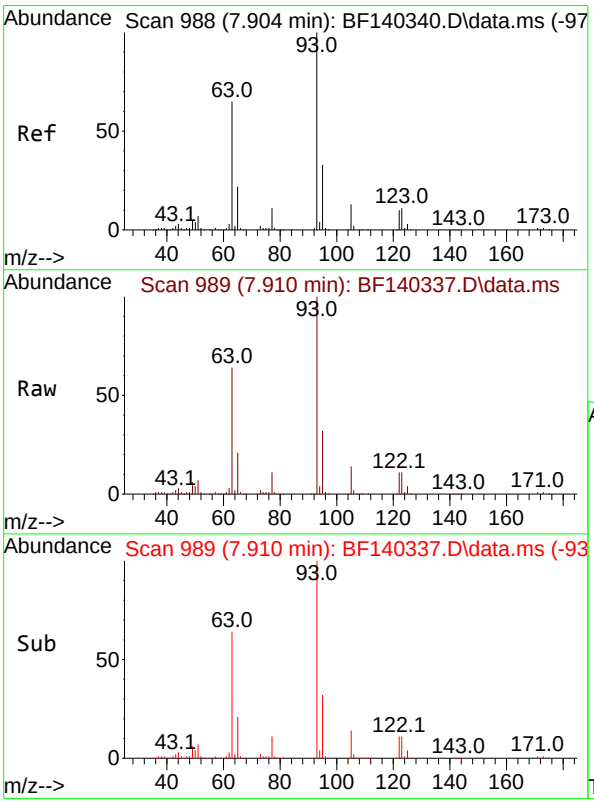
#27
2,4-Dimethylphenol
Concen: 48.629 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 356541

Ion	Ratio	Lower	Upper
122	100		
107	115.9	91.3	136.9
121	57.8	45.5	68.3

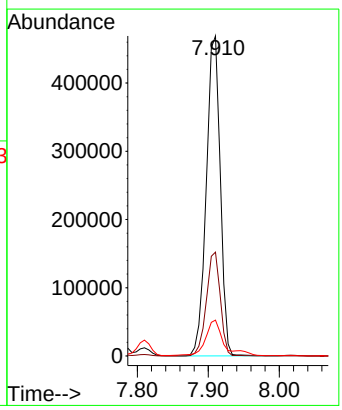


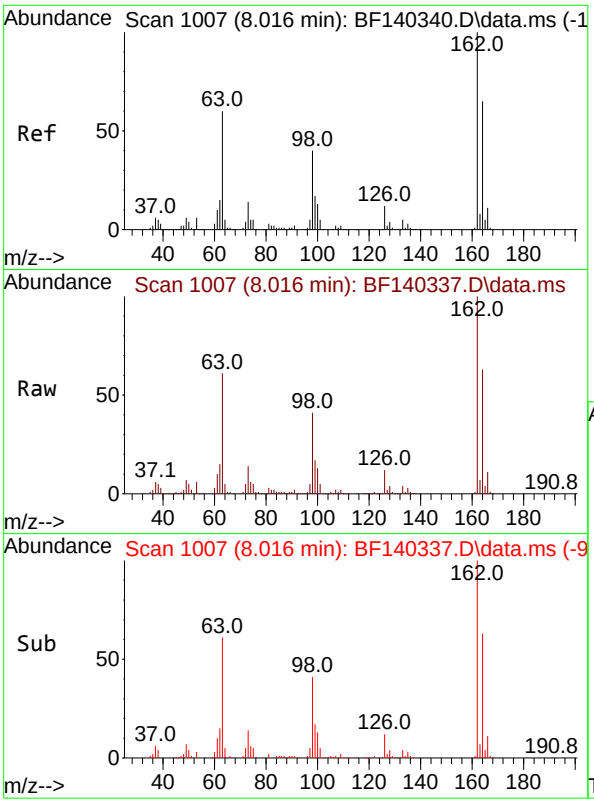


#28
bis(2-Chloroethoxy)methane
Concen: 47.695 ng
RT: 7.910 min Scan# 989
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion: 93 Resp: 642458

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.9	38.9
123	11.2	9.2	13.8



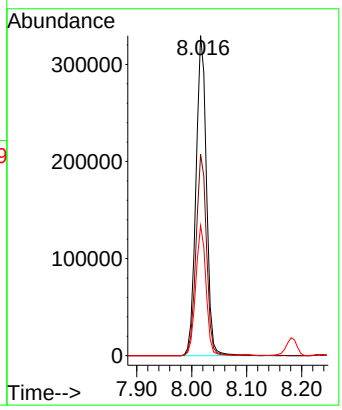


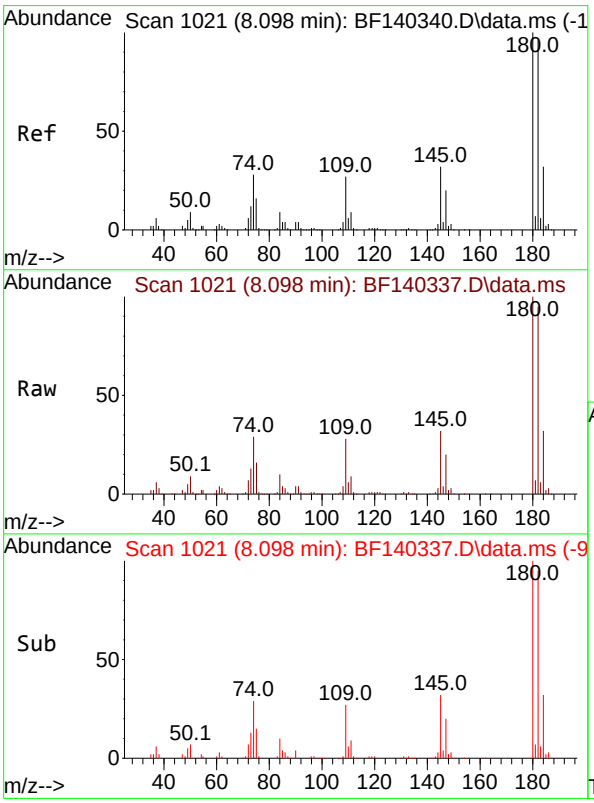
#29
2,4-Dichlorophenol
Concen: 48.507 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 439530

Ion	Ratio	Lower	Upper
162	100		
164	62.9	45.4	85.4
98	40.7	19.9	59.9

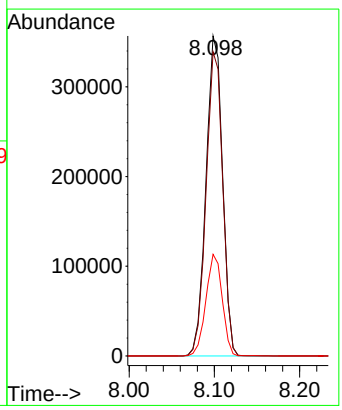


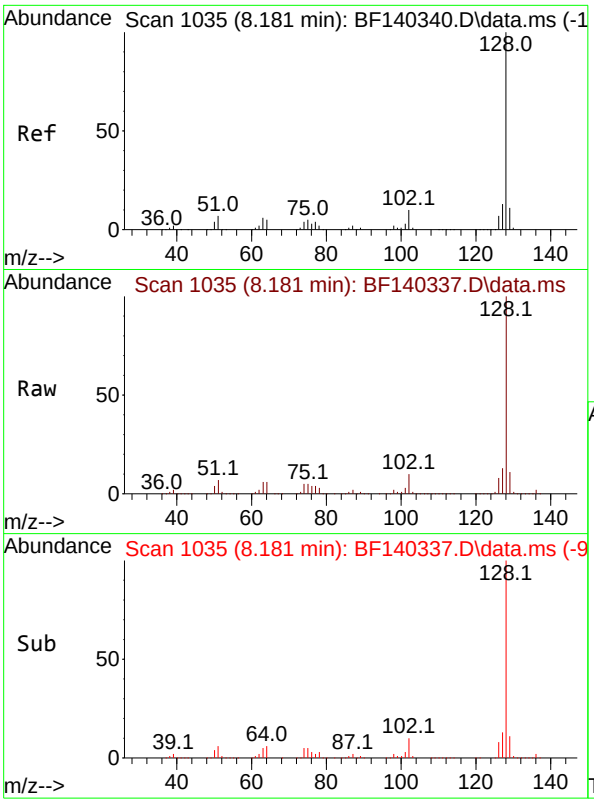


#30
1,2,4-Trichlorobenzene
Concen: 47.735 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:180 Resp: 481552

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.5	114.7
145	31.8	25.3	37.9



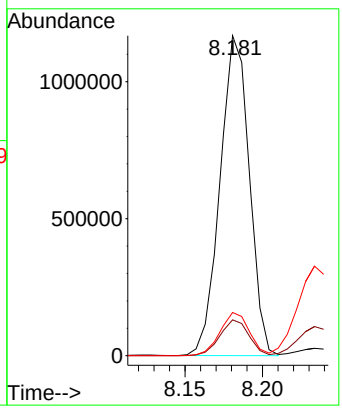


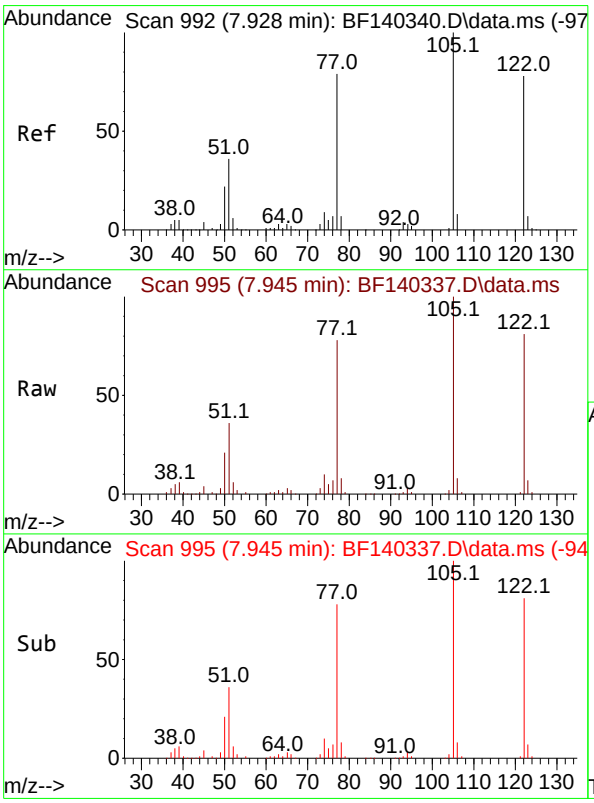
#31
Naphthalene
Concen: 46.842 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 1534595

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.5	10.6	15.8

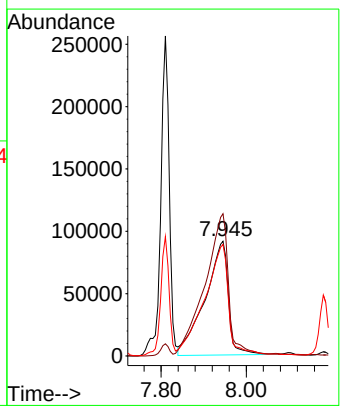


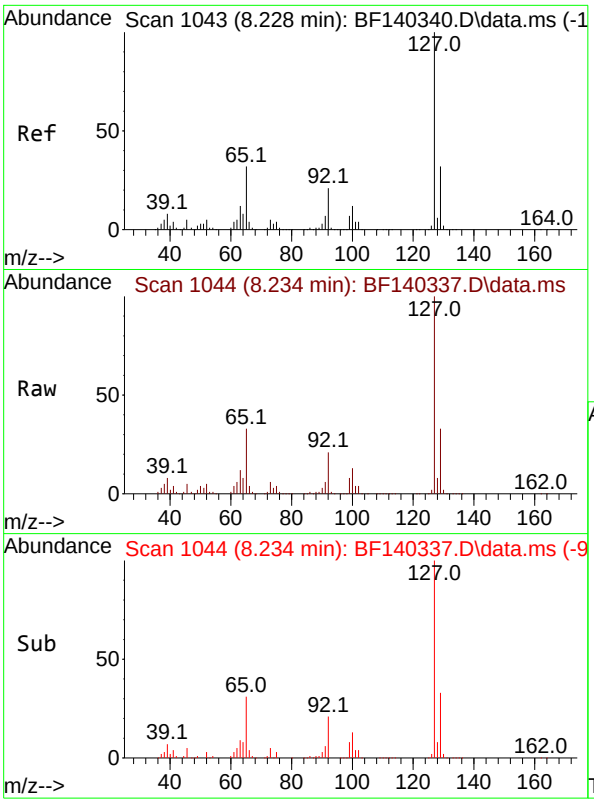


#32
Benzoic acid
Concen: 53.939 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.018 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:122 Resp: 347409

Ion	Ratio	Lower	Upper
122	100		
105	124.1	100.9	140.9
77	97.3	76.0	116.0



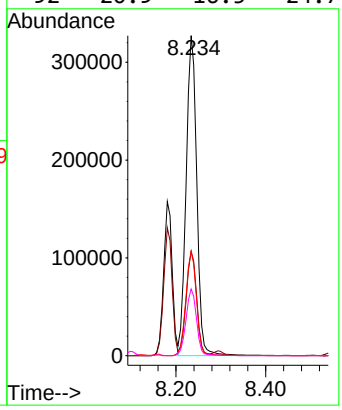


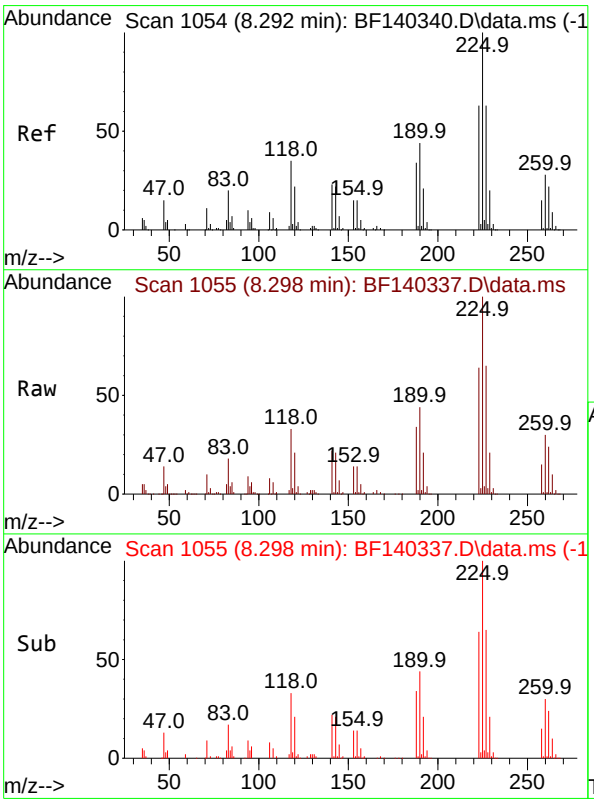
#33
4-Chloroaniline
Concen: 47.230 ng
RT: 8.234 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 538110

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.2	39.4
65	32.6	25.8	38.6
92	20.9	16.5	24.7

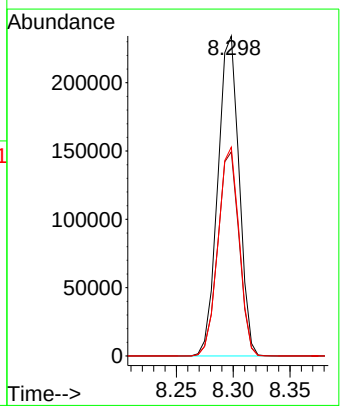


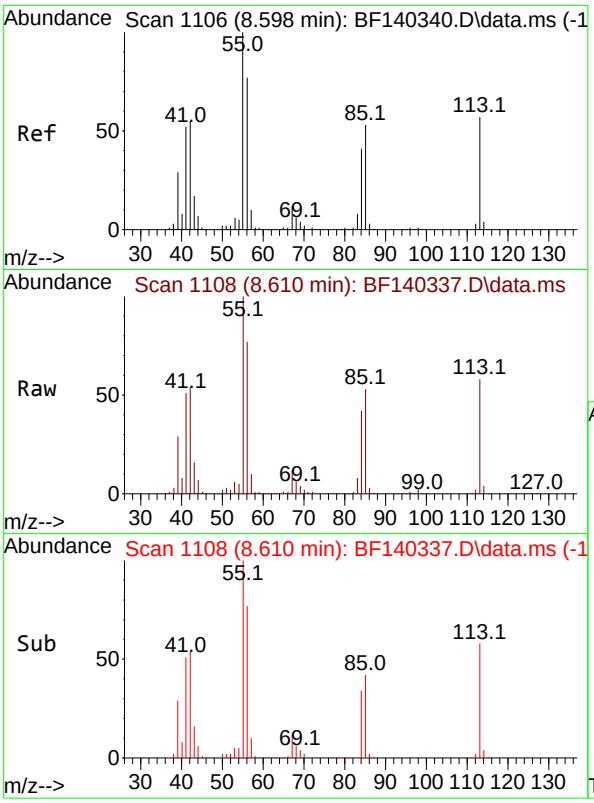


#34
Hexachlorobutadiene
Concen: 47.340 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:225 Resp: 304280

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.1	75.1
227	65.2	51.3	76.9



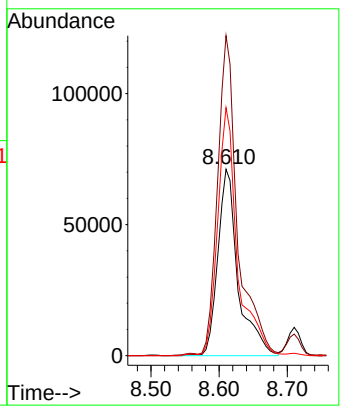


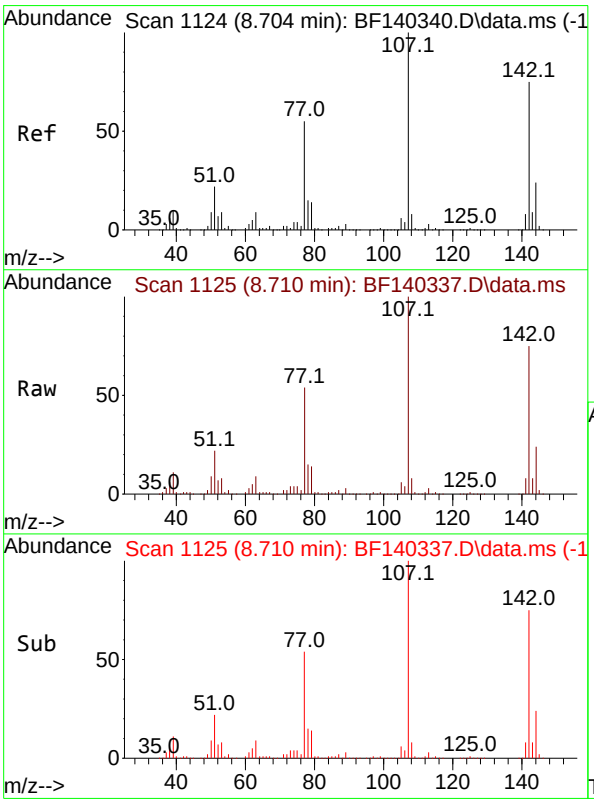
#35
Caprolactam
Concen: 48.359 ng
RT: 8.610 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 147323

Ion	Ratio	Lower	Upper
113	100		
55	171.7	150.0	190.0
56	133.0	111.1	151.1

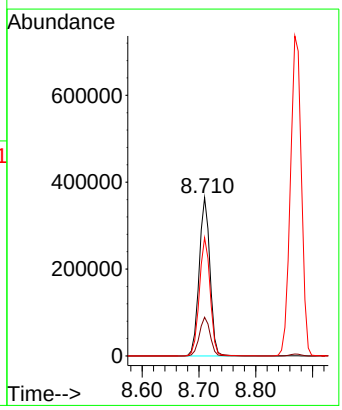


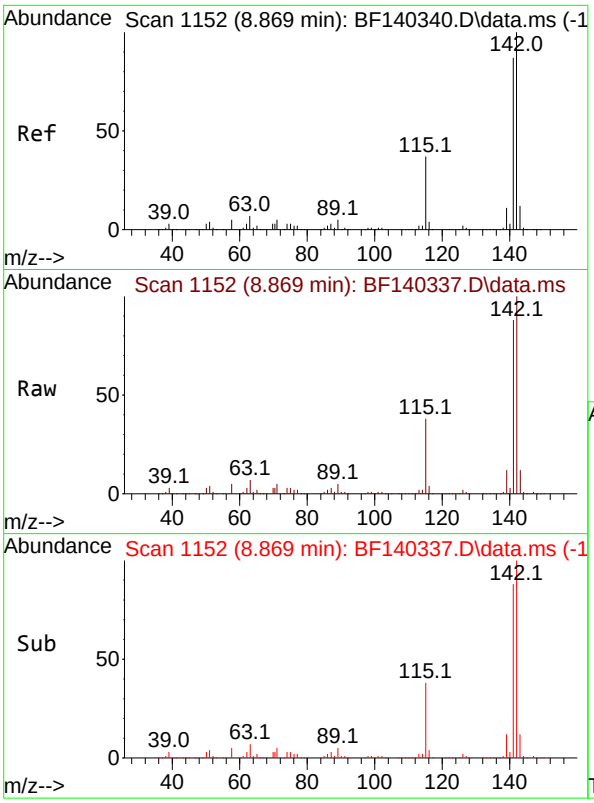


#36
4-Chloro-3-methylphenol
Concen: 48.095 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:107 Resp: 482944

Ion	Ratio	Lower	Upper
107	100		
144	24.4	19.3	28.9
142	74.7	59.4	89.0



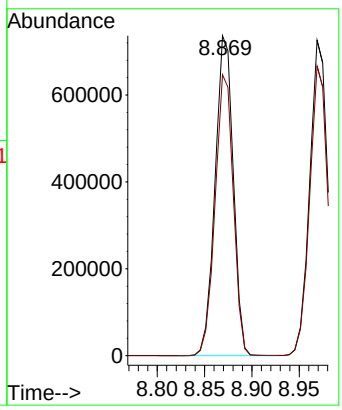


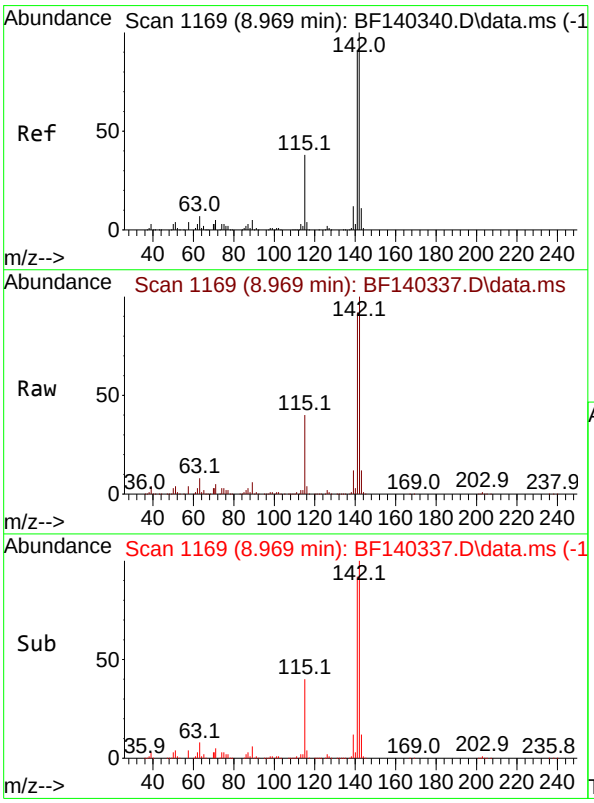
#37
2-Methylnaphthalene
Concen: 46.920 ng
RT: 8.869 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 985640

Ion	Ratio	Lower	Upper
142	100		
141	87.8	70.4	105.6

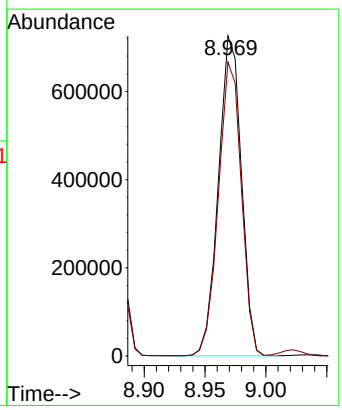


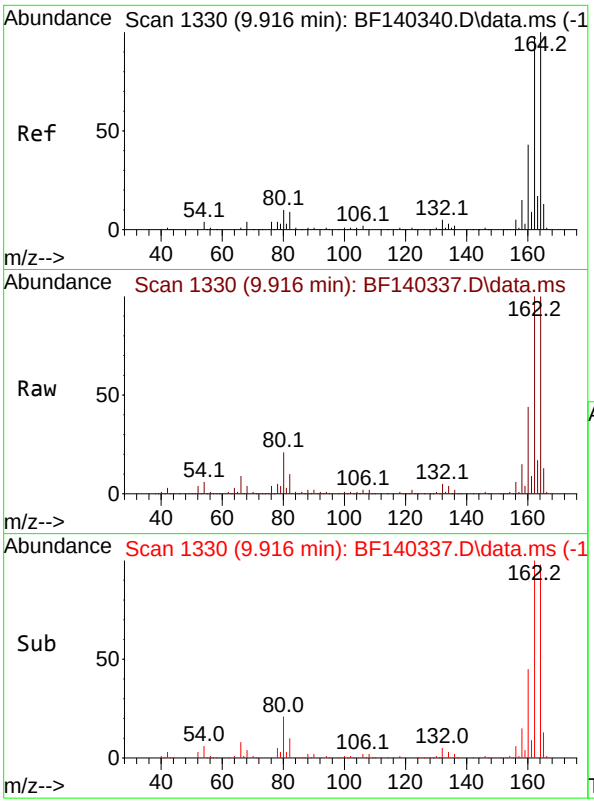


#38
1-Methylnaphthalene
Concen: 46.247 ng
RT: 8.969 min Scan# 1169
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:142 Resp: 951332

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.6	110.4



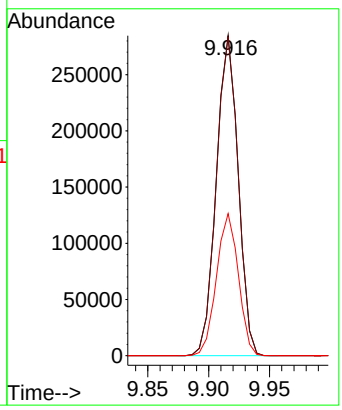


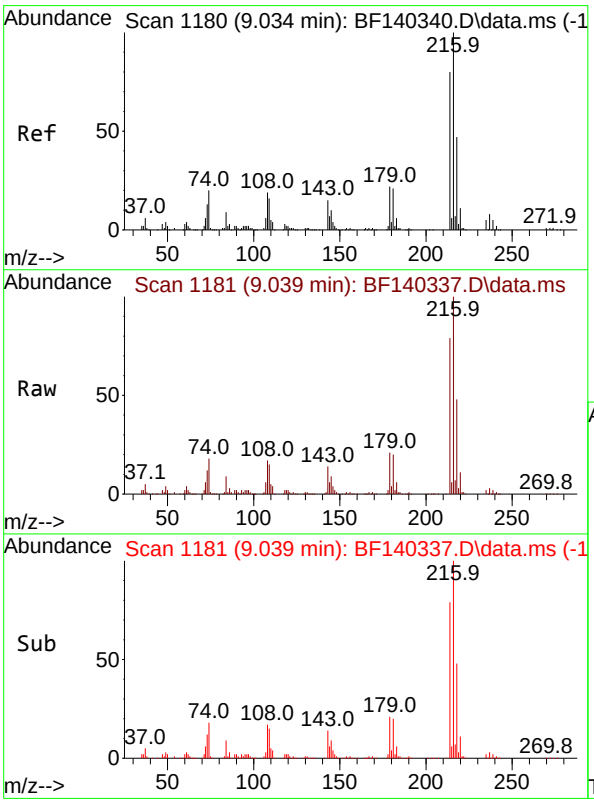
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 355715

Ion	Ratio	Lower	Upper
164	100		
162	99.6	79.8	119.8
160	44.4	35.4	53.0

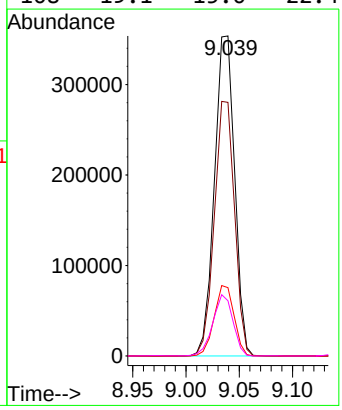


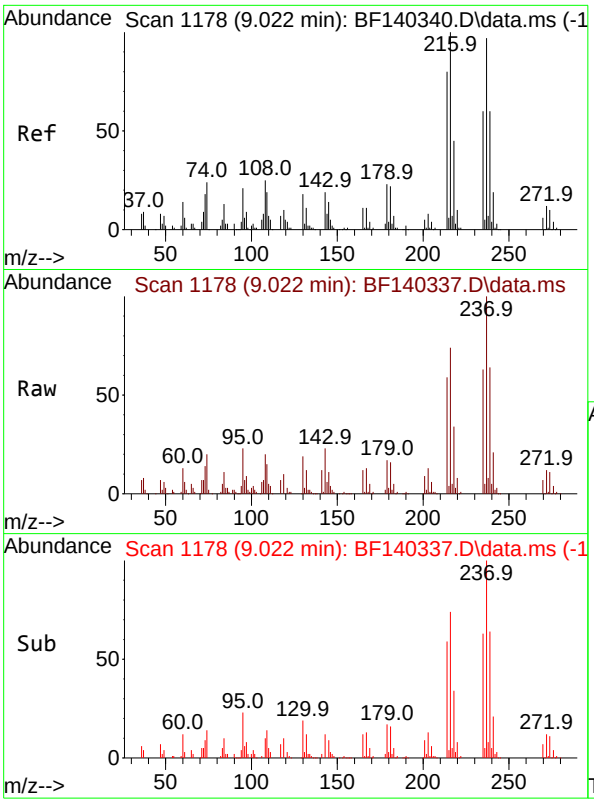


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.389 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:216 Resp: 466149

Ion	Ratio	Lower	Upper
216	100		
214	79.6	63.2	94.8
179	21.6	17.2	25.8
108	19.1	15.0	22.4



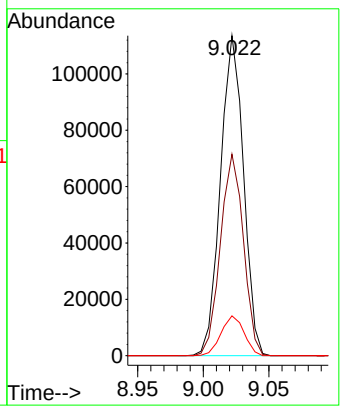


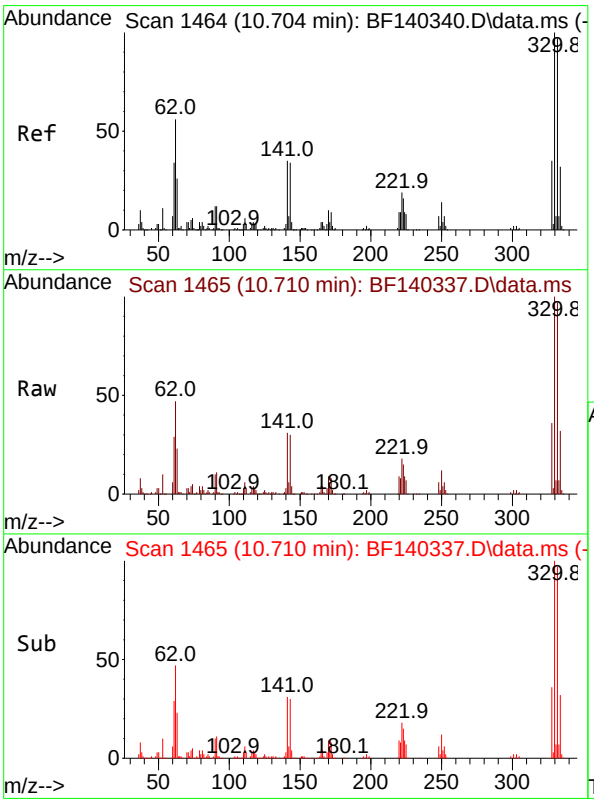
#41
Hexachlorocyclopentadiene
Concen: 54.914 ng
RT: 9.022 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 138691

Ion	Ratio	Lower	Upper
237	100		
235	63.0	42.8	82.8
272	12.5	0.0	33.1

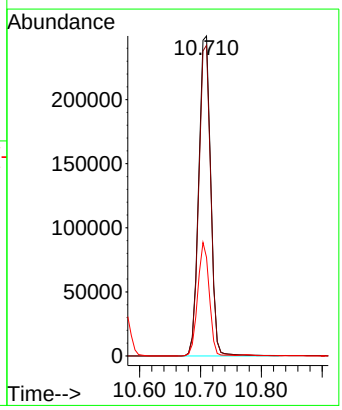


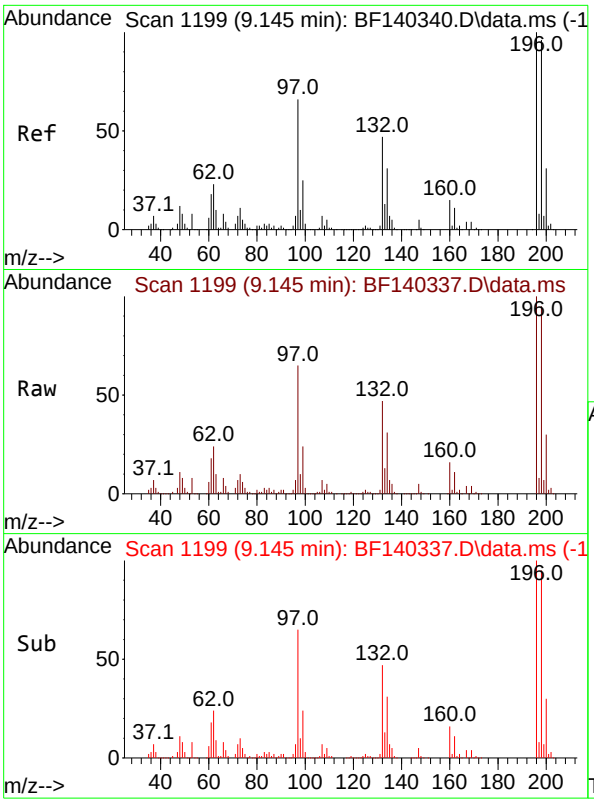


#42
2,4,6-Tribromophenol
Concen: 96.071 ng
RT: 10.710 min Scan# 1465
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:330 Resp: 339834

Ion	Ratio	Lower	Upper
330	100		
332	96.7	75.9	113.9
141	34.1	26.9	40.3



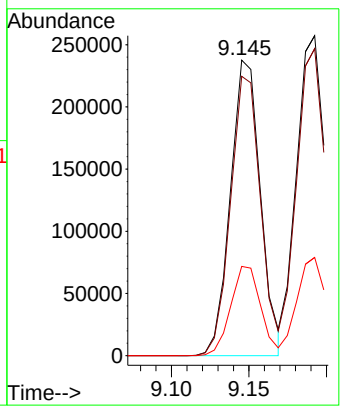


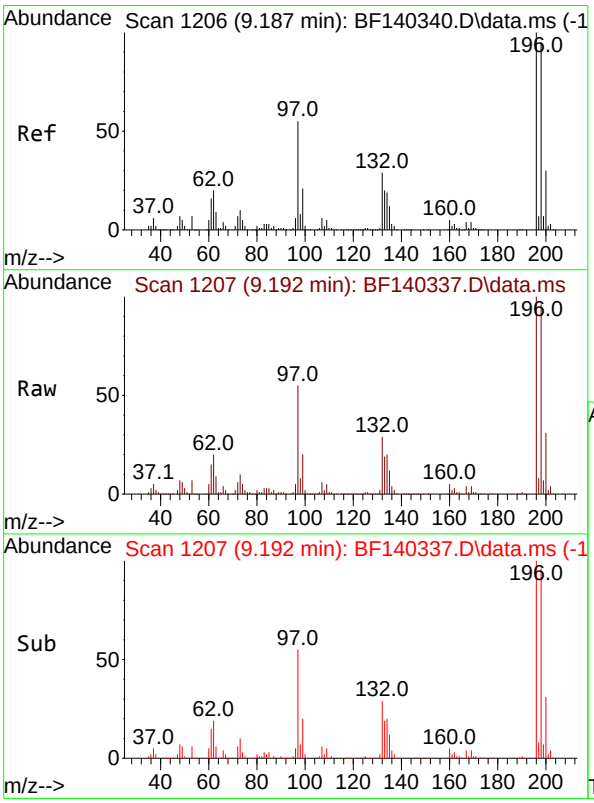
#43
2,4,6-Trichlorophenol
Concen: 49.613 ng
RT: 9.145 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 320277

Ion	Ratio	Lower	Upper
196	100		
198	94.6	77.0	115.4
200	30.2	24.2	36.4

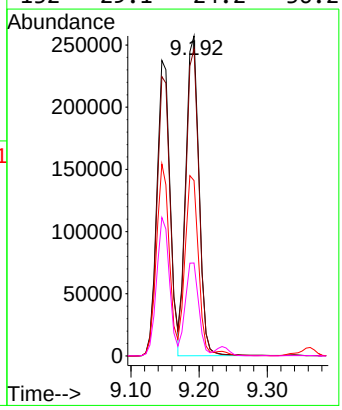


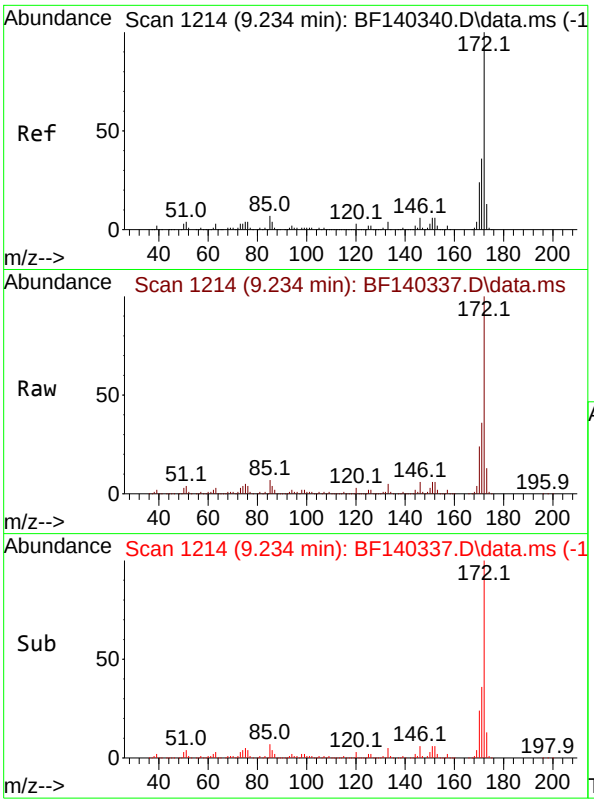


#44
2,4,5-Trichlorophenol
Concen: 48.773 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:196 Resp: 344237

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.6	116.4
97	54.8	45.4	68.2
132	29.1	24.2	36.2



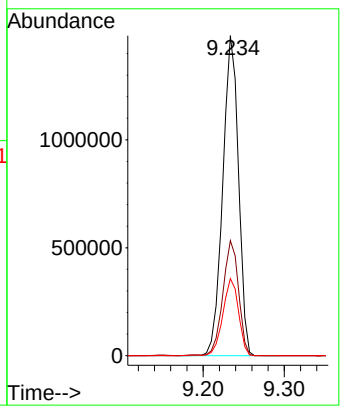


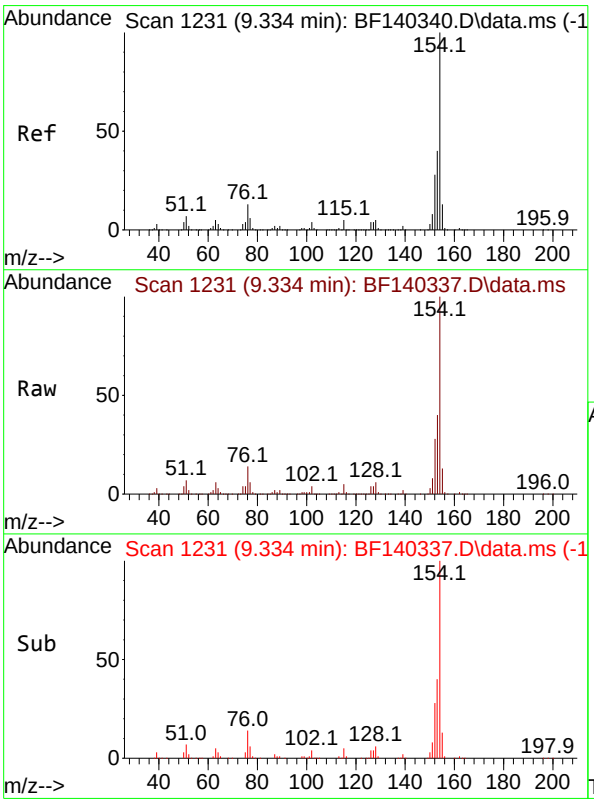
#45
2-Fluorobiphenyl
Concen: 90.428 ng
RT: 9.234 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 2000974

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.5	42.7
170	24.1	19.1	28.7

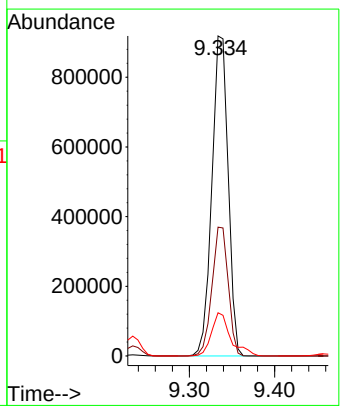


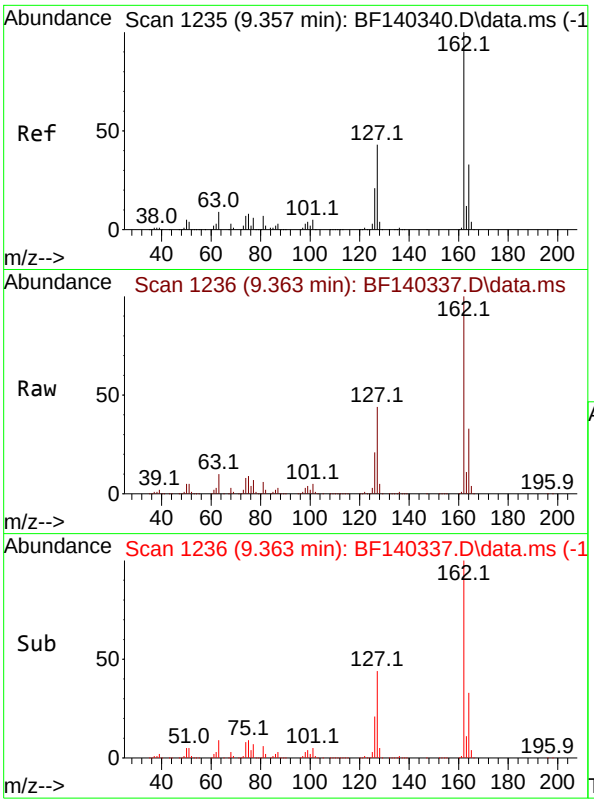


#46
1,1'-Biphenyl
Concen: 47.025 ng
RT: 9.334 min Scan# 1231
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:154 Resp: 1216913

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.4	60.4
76	13.5	0.0	32.9



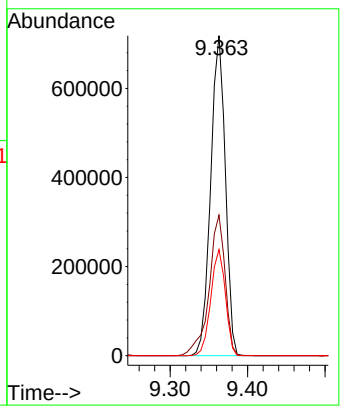


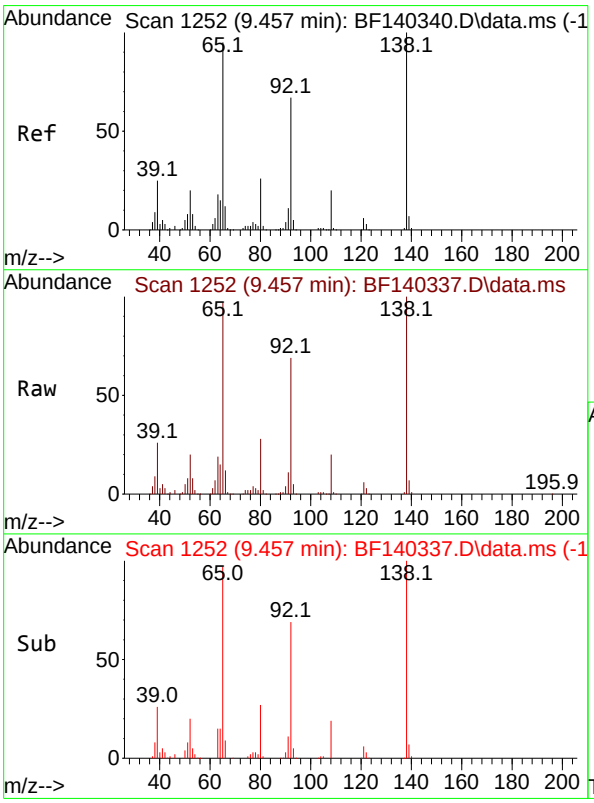
#47
2-Chloronaphthalene
Concen: 47.981 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 945855

Ion	Ratio	Lower	Upper
162	100		
127	43.9	34.0	51.0
164	33.1	26.5	39.7

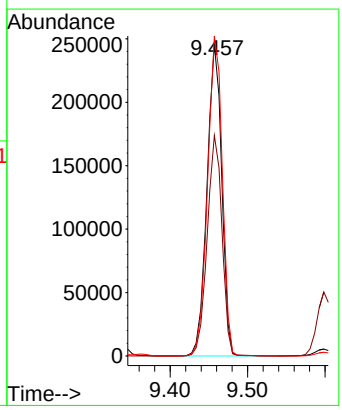


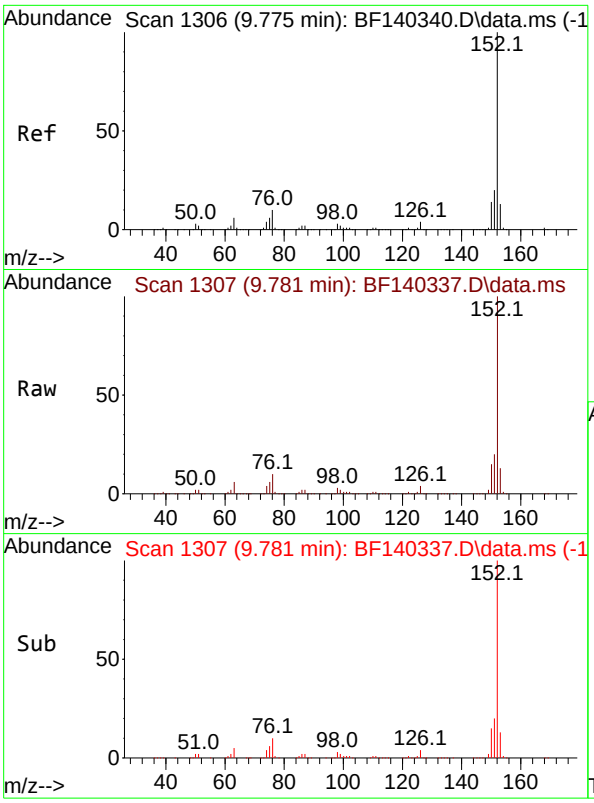


#48
2-Nitroaniline
Concen: 49.689 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion: 65 Resp: 324847

Ion	Ratio	Lower	Upper
65	100		
92	70.8	56.4	84.6
138	102.7	84.8	127.2



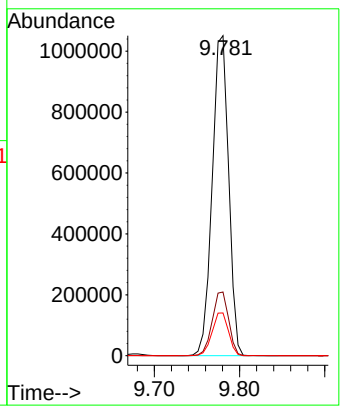


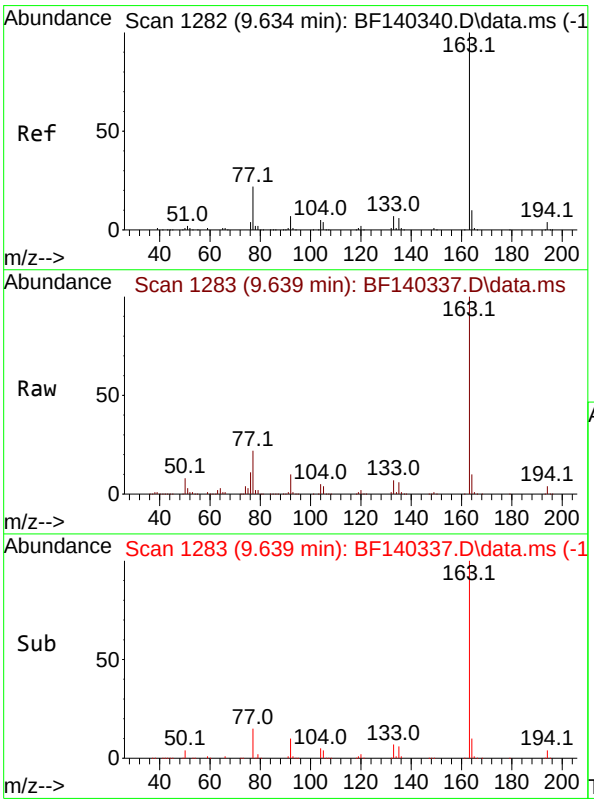
#49
Acenaphthylene
Concen: 47.156 ng
RT: 9.781 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 1406468

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1
153	13.3	10.7	16.1

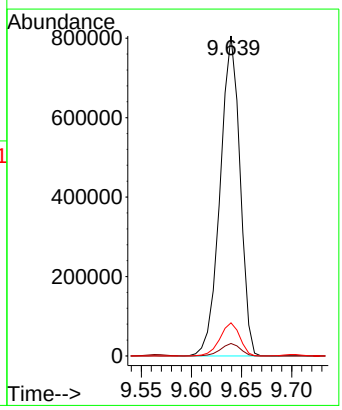


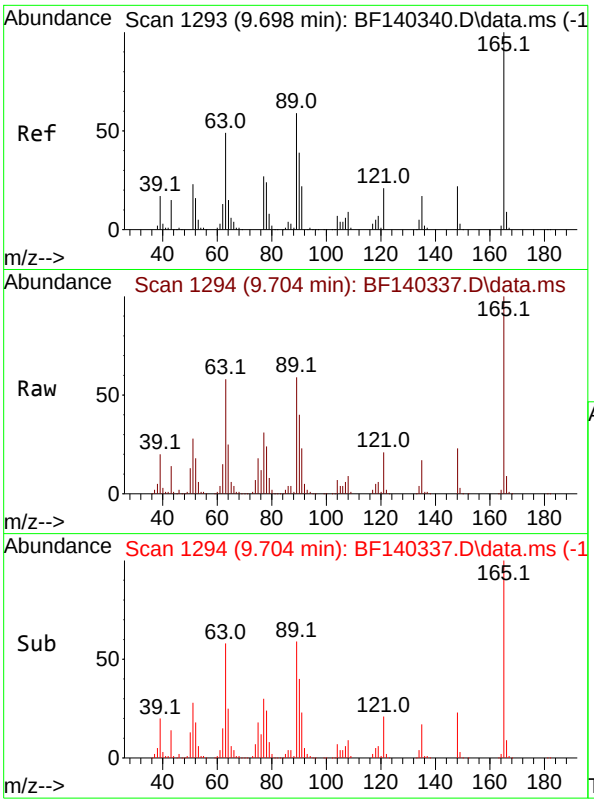


#50
Dimethylphthalate
Concen: 47.796 ng
RT: 9.639 min Scan# 1283
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:163 Resp: 1108191

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.4	8.2	12.4



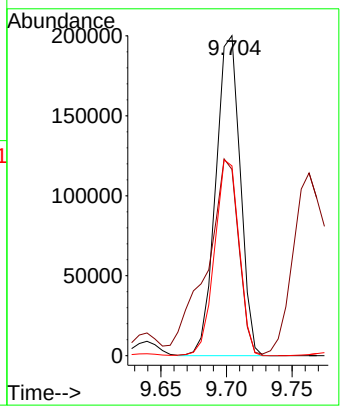


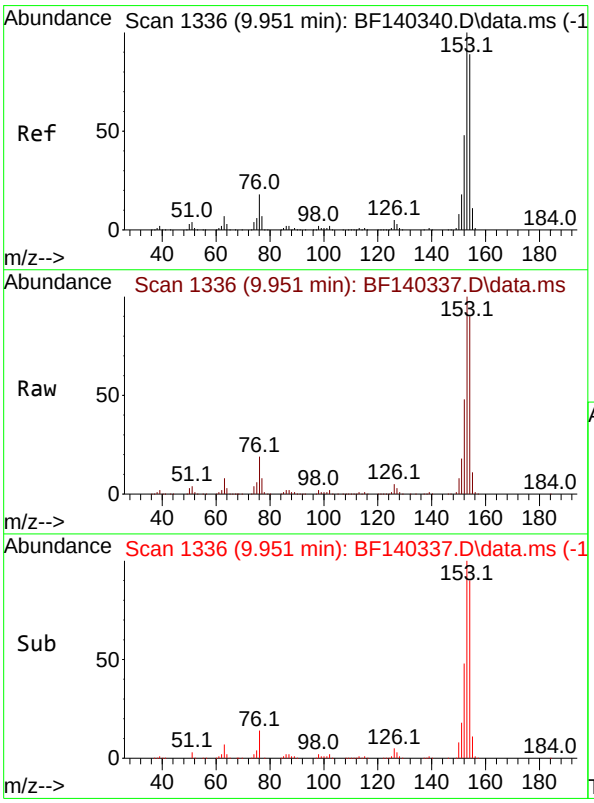
#51
2,6-Dinitrotoluene
Concen: 48.982 ng
RT: 9.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 258909

Ion	Ratio	Lower	Upper
165	100		
63	58.2	47.6	71.4
89	59.3	48.1	72.1

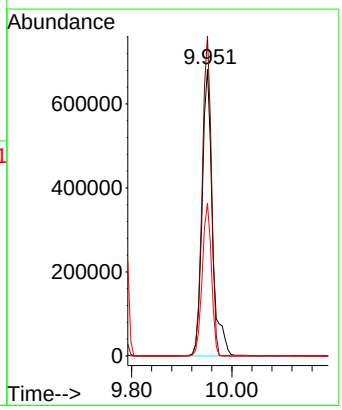


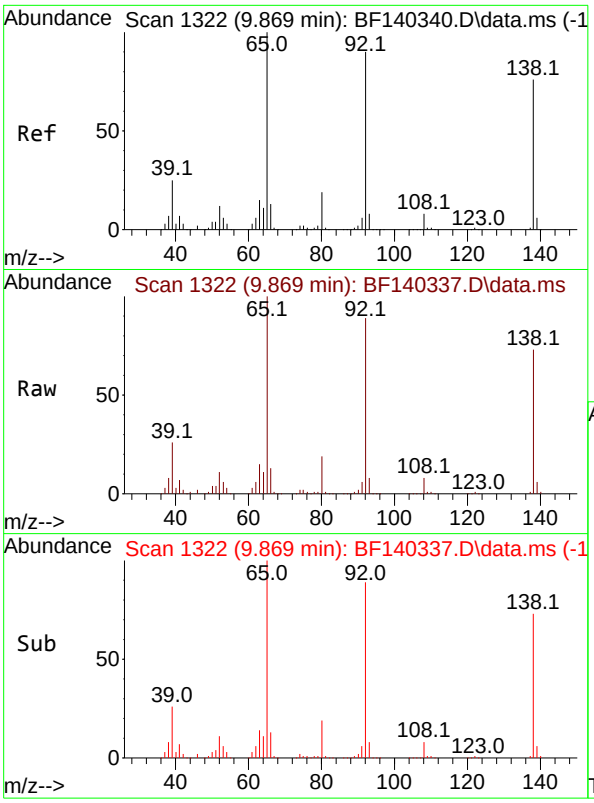


#52
Acenaphthene
Concen: 48.182 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:154 Resp: 970618

Ion	Ratio	Lower	Upper
154	100		
153	111.5	89.8	134.8
152	53.2	42.6	64.0



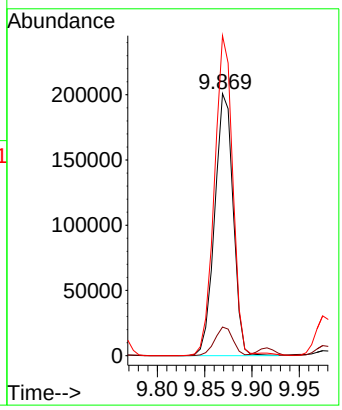


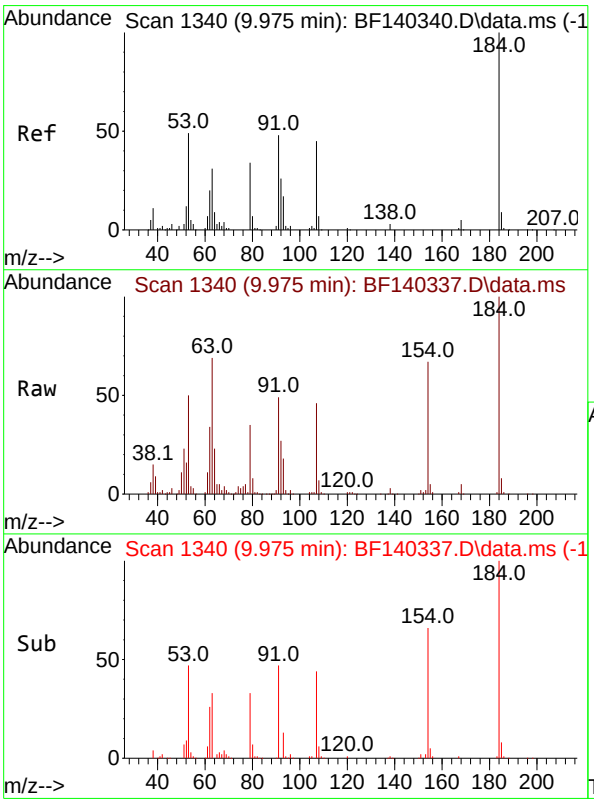
#53
3-Nitroaniline
Concen: 49.160 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 272892

Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.4	12.6
92	122.1	95.5	143.3

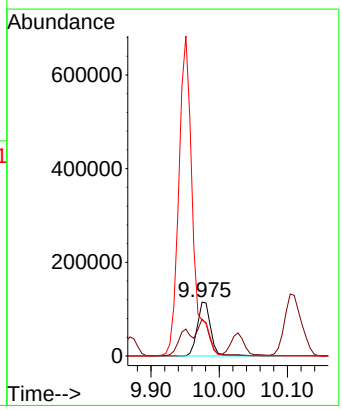


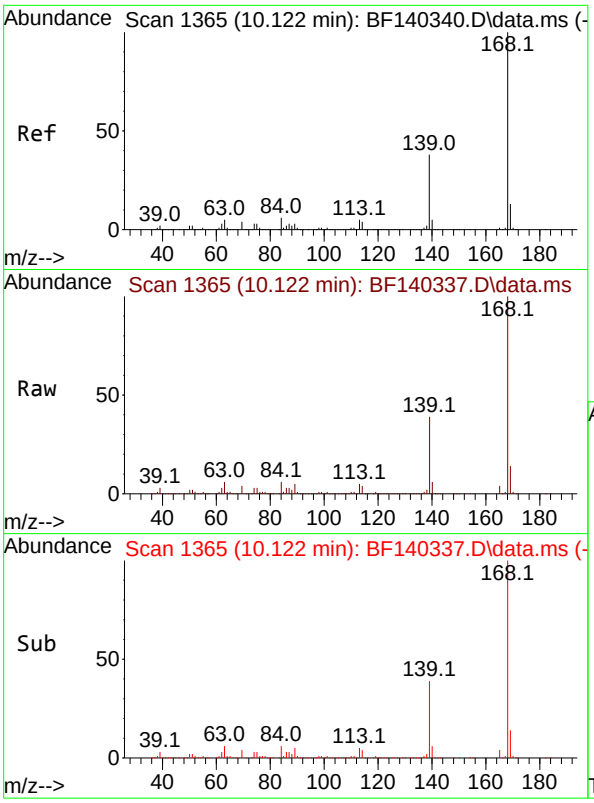


#54
2,4-Dinitrophenol
Concen: 57.974 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:184 Resp: 158026

Ion	Ratio	Lower	Upper
184	100		
63	68.6	53.5	80.3
154	66.6	51.3	76.9



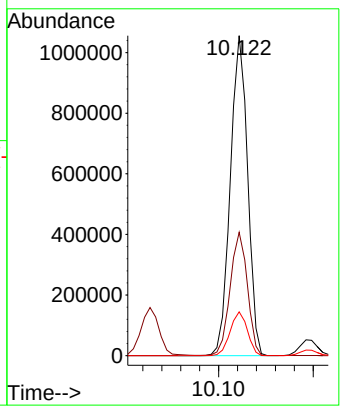


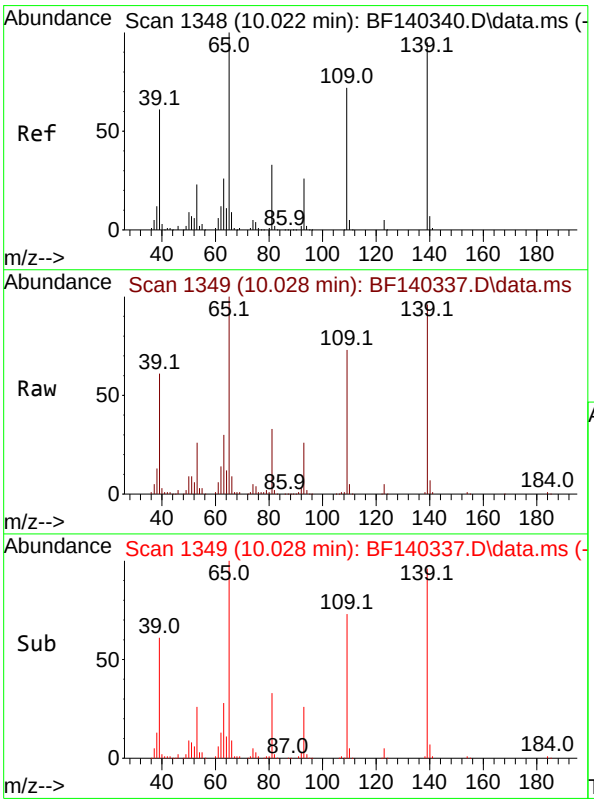
#55
Dibenzofuran
Concen: 46.833 ng
RT: 10.122 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 1335552

Ion	Ratio	Lower	Upper
168	100		
139	38.6	30.8	46.2
169	13.7	10.8	16.2

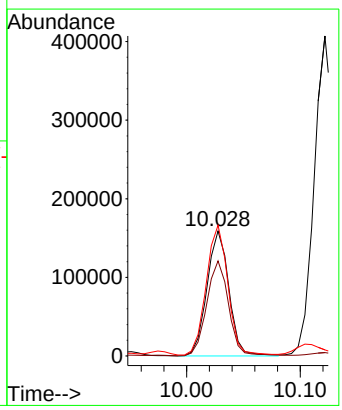


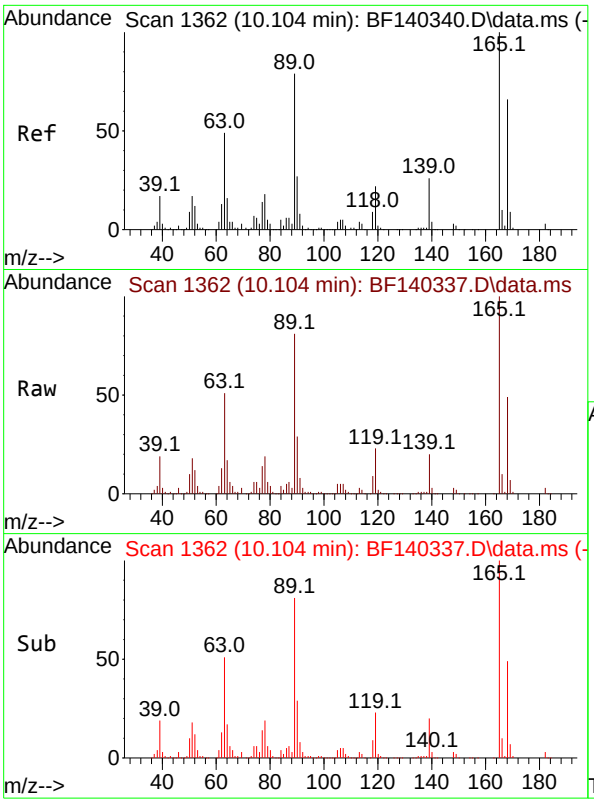


#56
4-Nitrophenol
Concen: 52.733 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:139 Resp: 213518

Ion	Ratio	Lower	Upper
139	100		
109	76.0	54.5	94.5
65	104.7	84.4	124.4



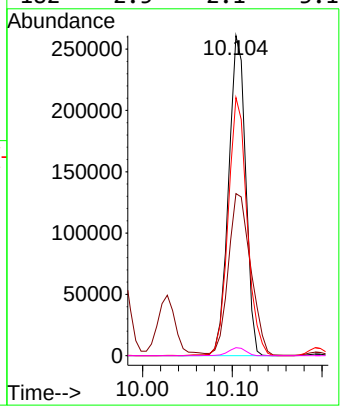


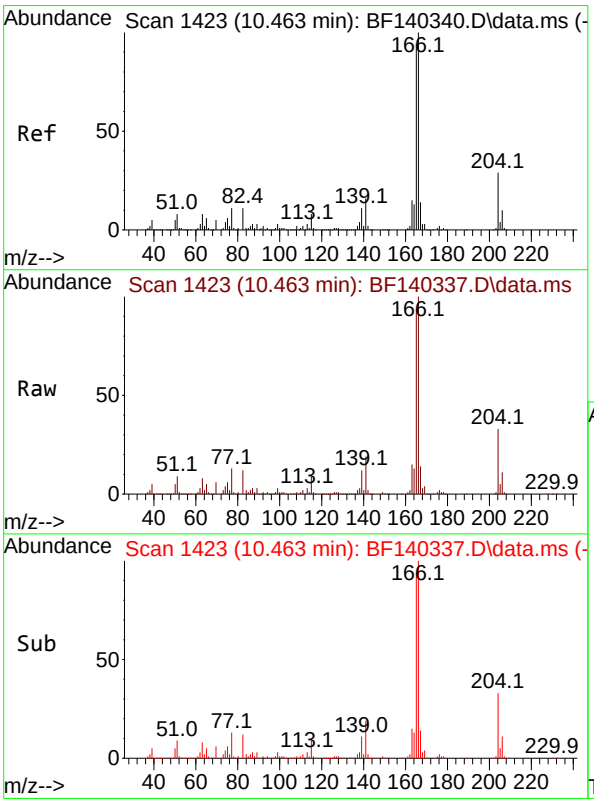
#57
2,4-Dinitrotoluene
Concen: 49.427 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 343847

Ion	Ratio	Lower	Upper
165	100		
63	50.7	39.4	59.0
89	80.7	62.4	93.6
182	2.5	2.1	3.1

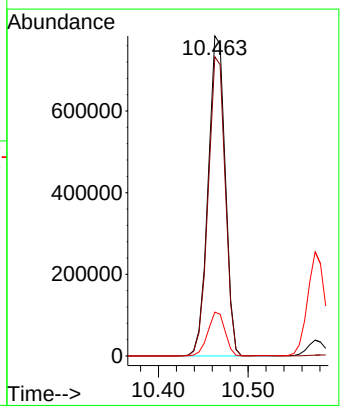


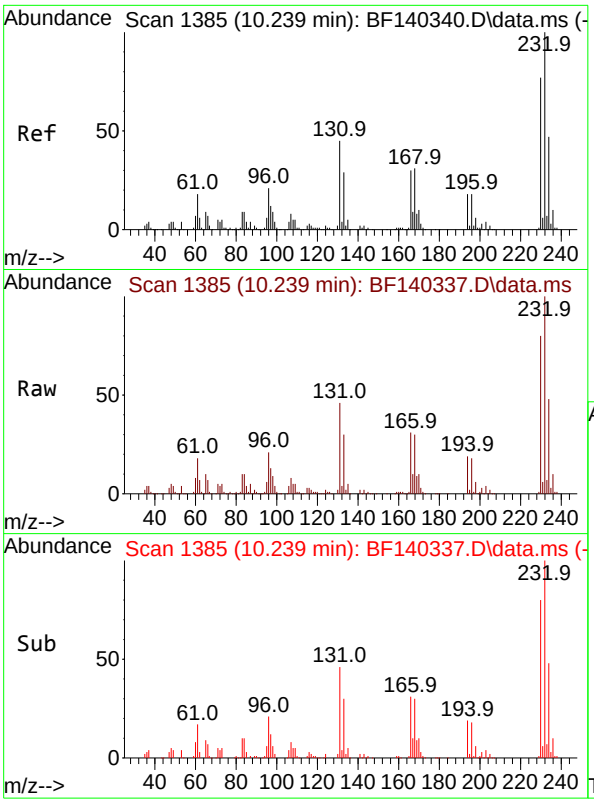


#58
Fluorene
Concen: 46.112 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:166 Resp: 1038836

Ion	Ratio	Lower	Upper
166	100		
165	93.5	73.9	110.9
167	13.7	10.9	16.3



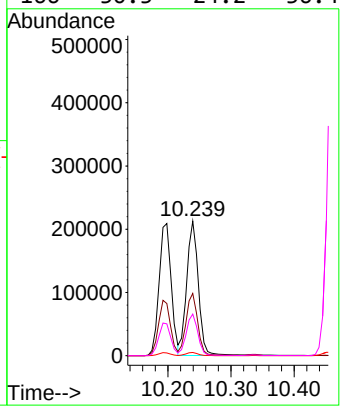


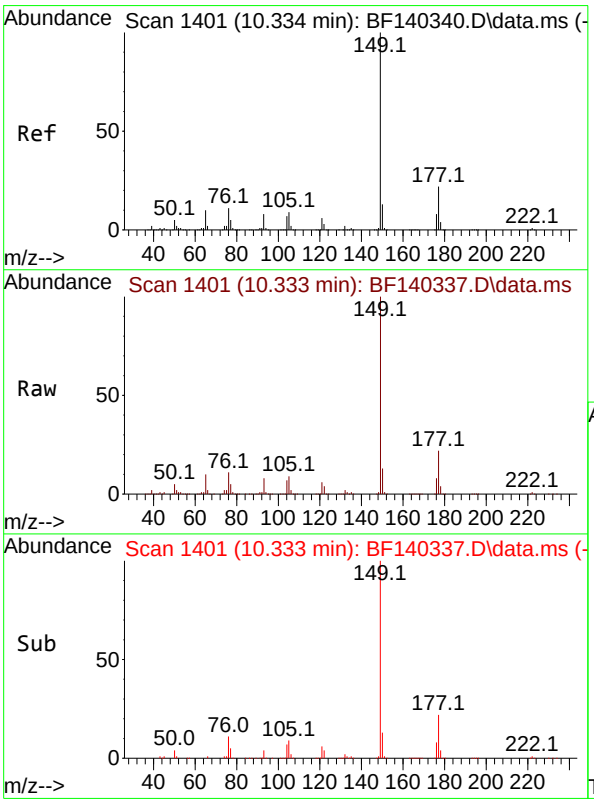
#59
2,3,4,6-Tetrachlorophenol
Concen: 49.236 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 274144

Ion	Ratio	Lower	Upper
232	100		
131	45.5	36.8	55.2
130	2.5	1.9	2.9
166	30.3	24.2	36.4

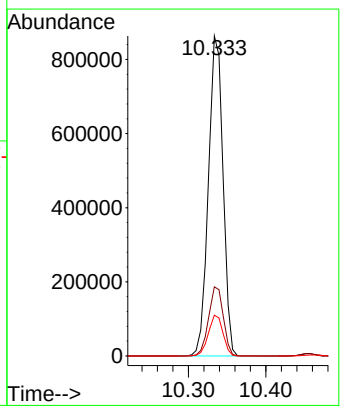


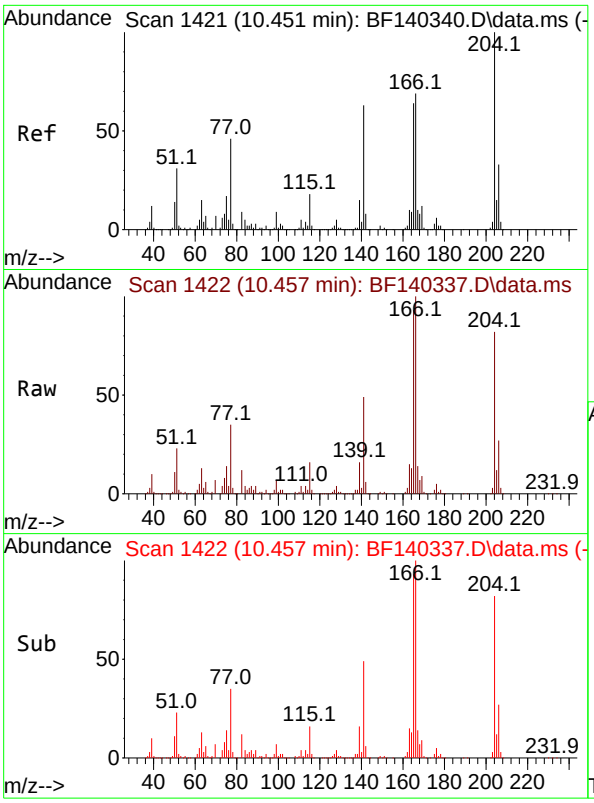


#60
Diethylphthalate
Concen: 47.701 ng
RT: 10.333 min Scan# 1401
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:149 Resp: 1130922

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.5	26.3
150	12.8	10.1	15.1



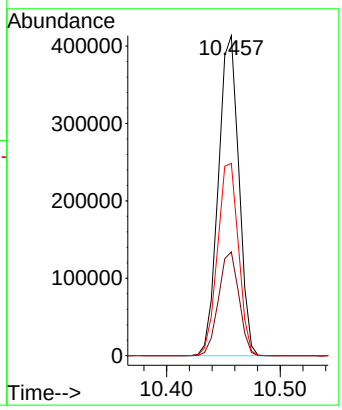


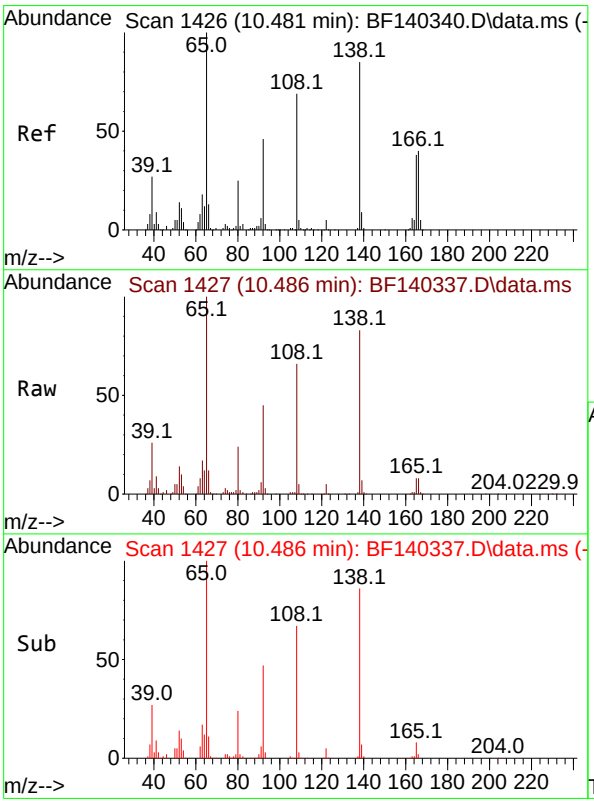
#61
4-Chlorophenyl-phenylether
Concen: 46.617 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 518480

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.0	39.0
141	60.1	49.8	74.8

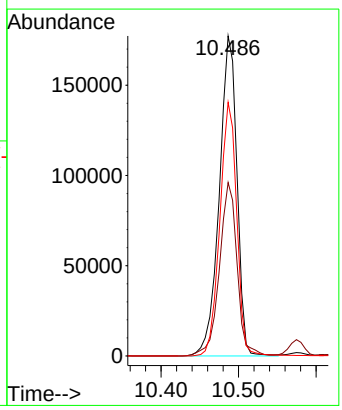


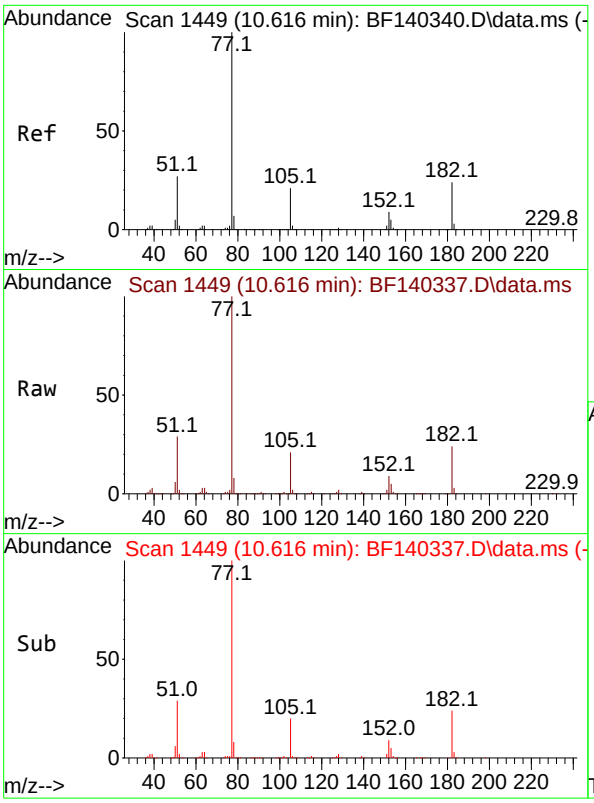


#62
4-Nitroaniline
Concen: 49.492 ng
RT: 10.486 min Scan# 1427
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:138 Resp: 280913

Ion	Ratio	Lower	Upper
138	100		
92	54.2	33.8	73.8
108	79.2	59.9	99.9



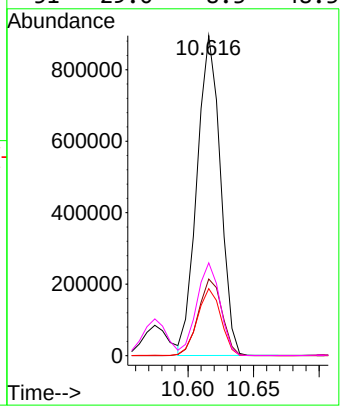


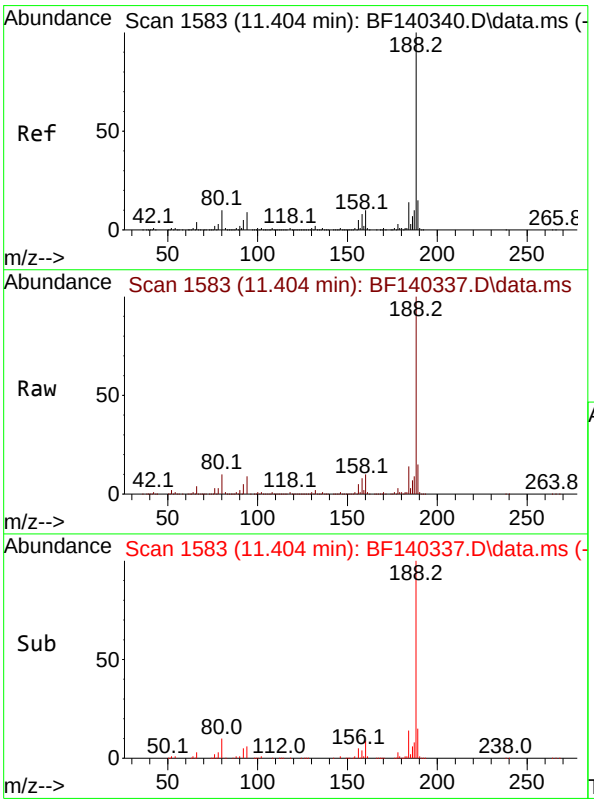
#63
Azobenzene
Concen: 47.487 ng
RT: 10.616 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 1112412

Ion	Ratio	Lower	Upper
77	100		
182	23.9	4.6	44.6
105	21.0	0.9	40.9
51	29.0	8.3	48.3

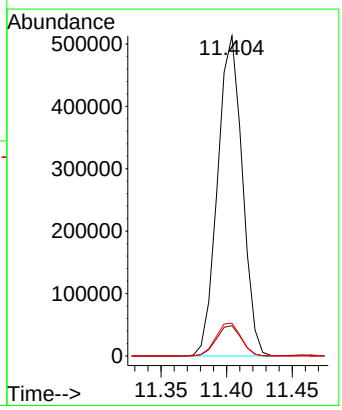


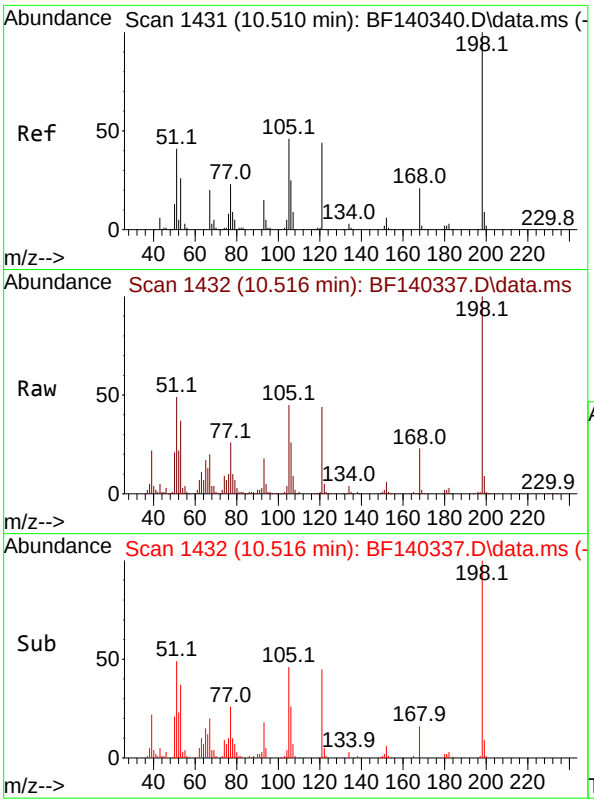


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:188 Resp: 673585

Ion	Ratio	Lower	Upper
188	100		
94	9.5	7.6	11.4
80	10.3	8.0	12.0



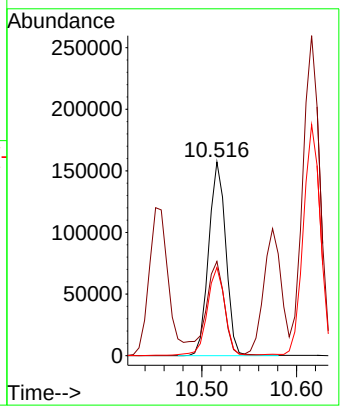


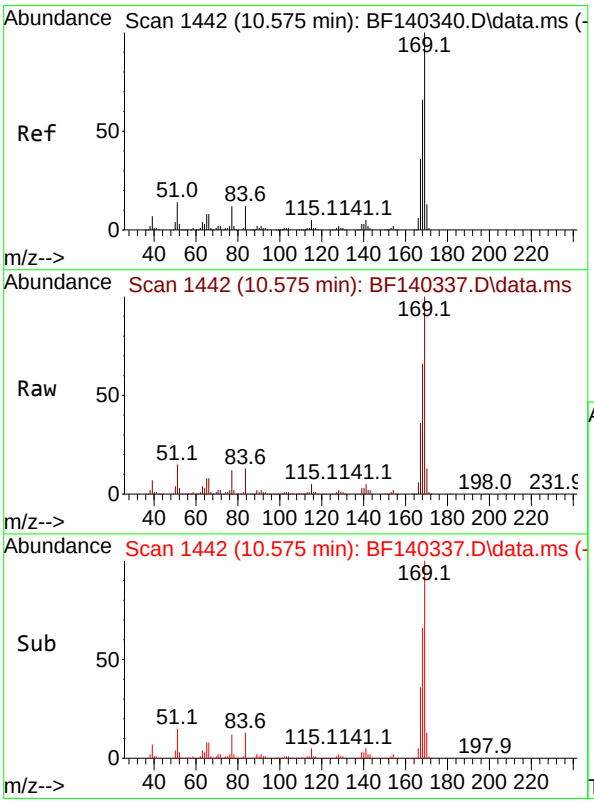
#65
4,6-Dinitro-2-methylphenol
Concen: 54.495 ng
RT: 10.516 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 197492

Ion	Ratio	Lower	Upper
198	100		
51	48.6	29.7	69.7
105	45.5	26.3	66.3

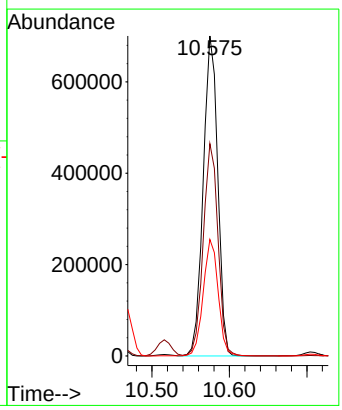


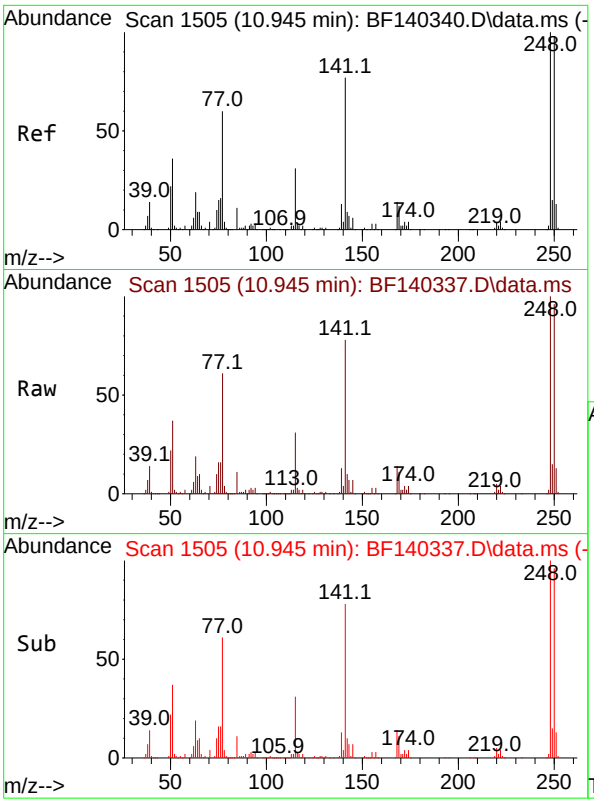


#66
n-Nitrosodiphenylamine
Concen: 46.803 ng
RT: 10.575 min Scan# 1442
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:169 Resp: 910897

Ion	Ratio	Lower	Upper
169	100		
168	66.3	52.7	79.1
167	36.4	29.3	43.9



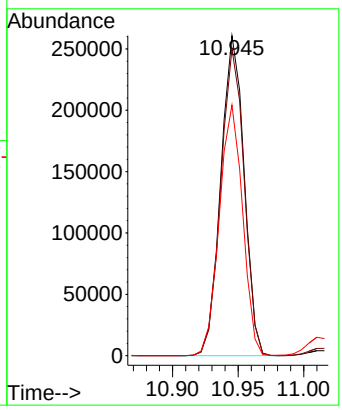


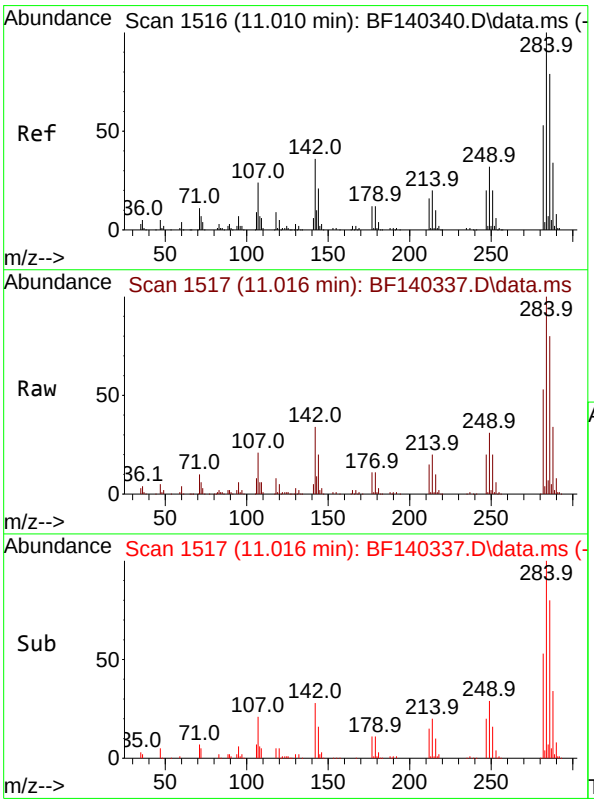
#67
4-Bromophenyl-phenylether
Concen: 47.787 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 321760

Ion	Ratio	Lower	Upper
248	100		
250	95.9	77.9	116.9
141	78.3	61.8	92.6

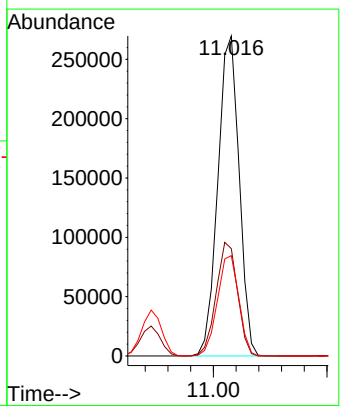


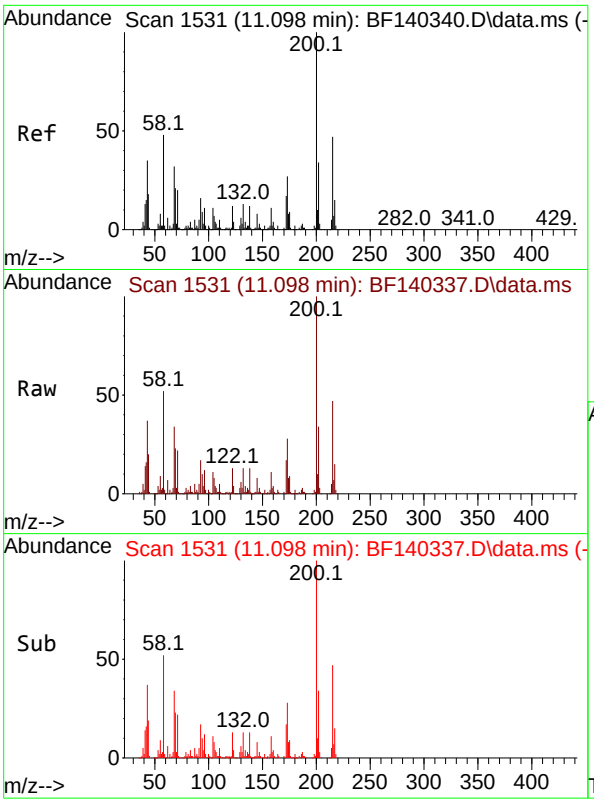


#68
Hexachlorobenzene
Concen: 46.386 ng
RT: 11.016 min Scan# 1517
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:284 Resp: 351412

Ion	Ratio	Lower	Upper
284	100		
142	33.6	28.1	42.1
249	31.3	24.9	37.3



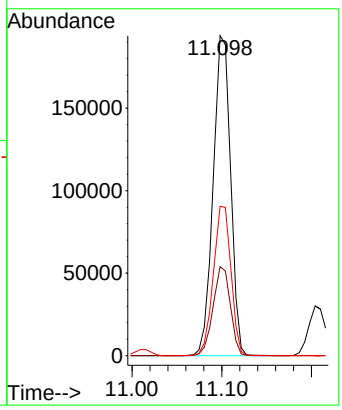


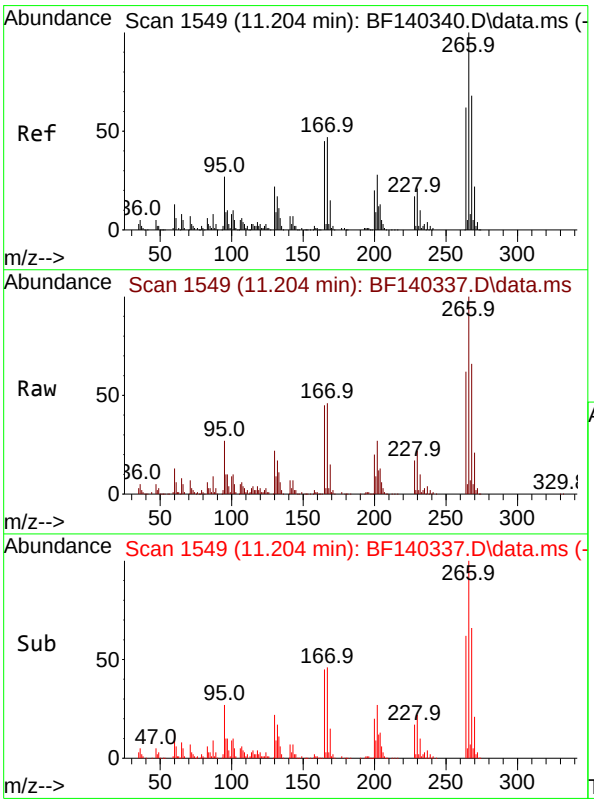
#69
Atrazine
Concen: 44.413 ng
RT: 11.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 261515

Ion	Ratio	Lower	Upper
200	100		
173	27.8	6.6	46.6
215	46.7	27.2	67.2

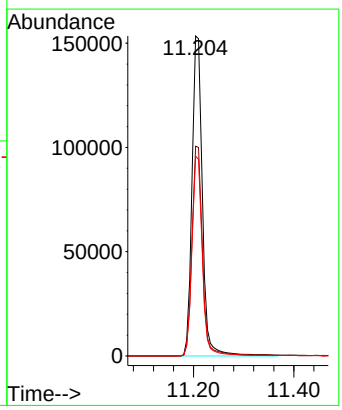


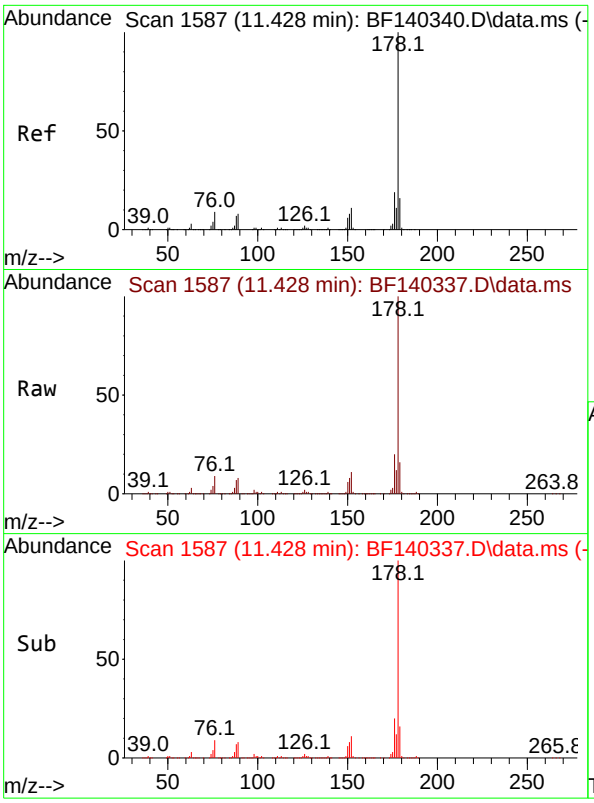


#70
Pentachlorophenol
Concen: 54.132 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:266 Resp: 220904

Ion	Ratio	Lower	Upper
266	100		
268	65.6	52.9	79.3
264	62.4	50.3	75.5



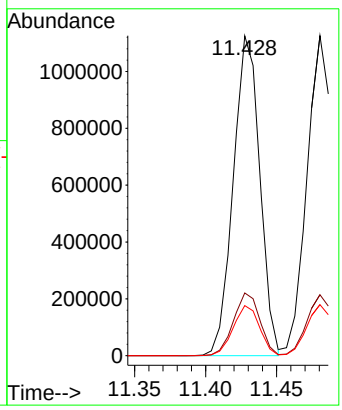


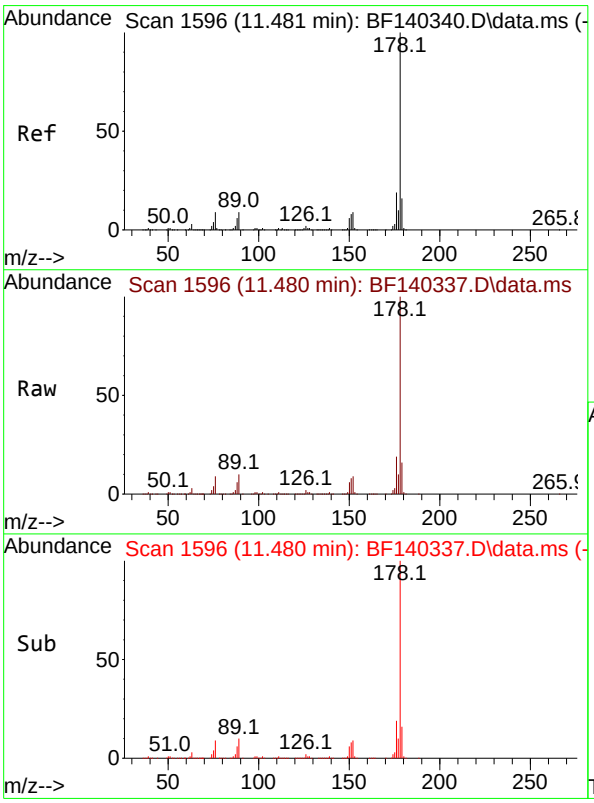
#71
Phenanthrene
Concen: 46.188 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 1461484

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.5	23.3
179	15.7	12.4	18.6

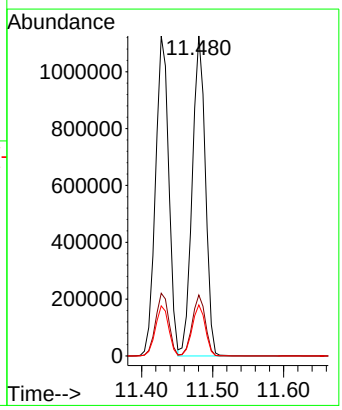


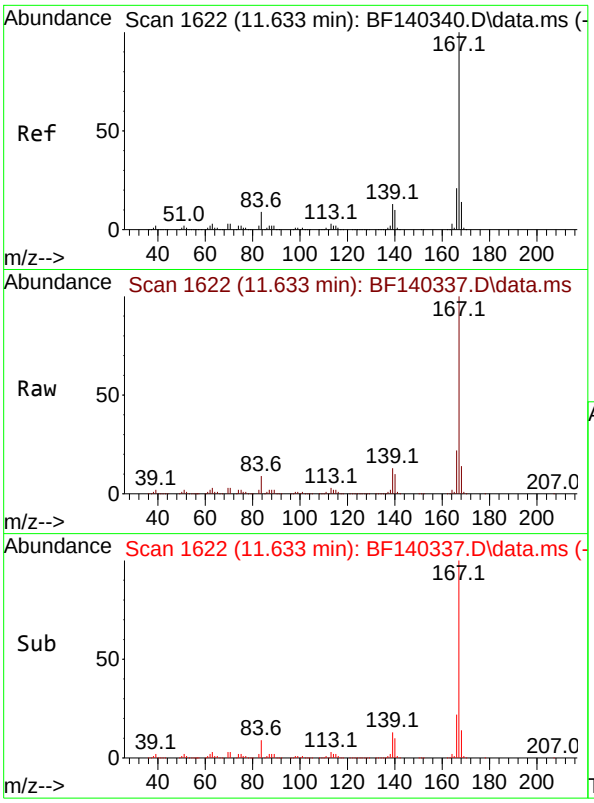


#72
Anthracene
Concen: 46.682 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:178 Resp: 1447653

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	16.0	12.6	18.8



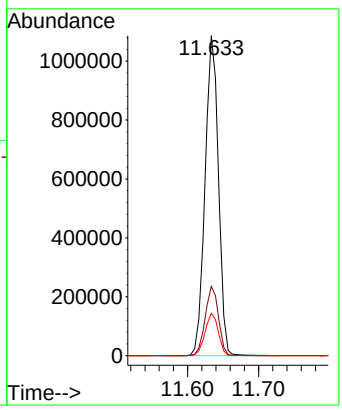


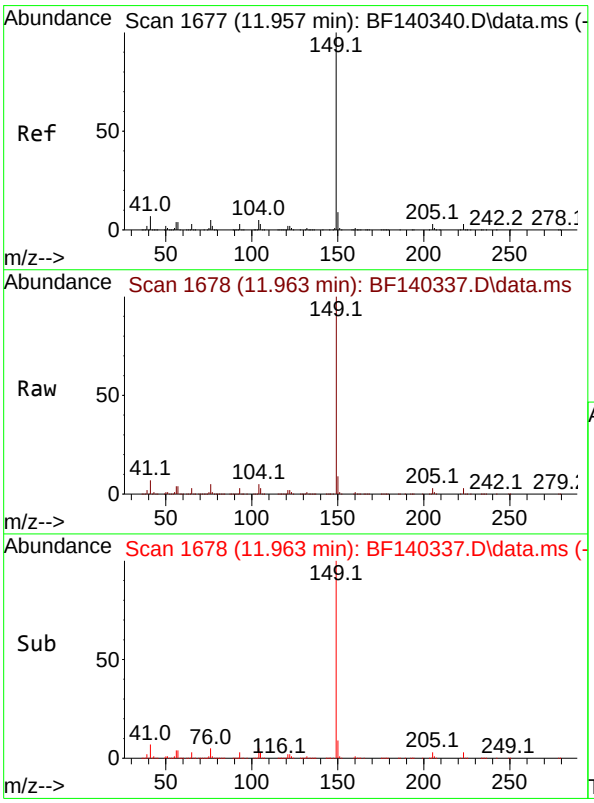
#73
Carbazole
Concen: 46.543 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 1425182

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.2	25.8
139	13.3	10.4	15.6

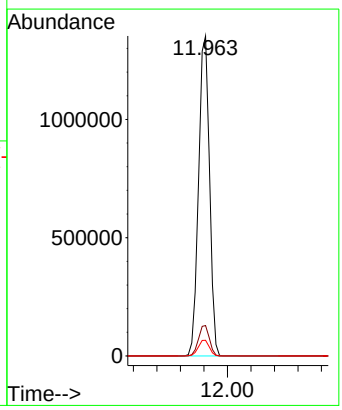


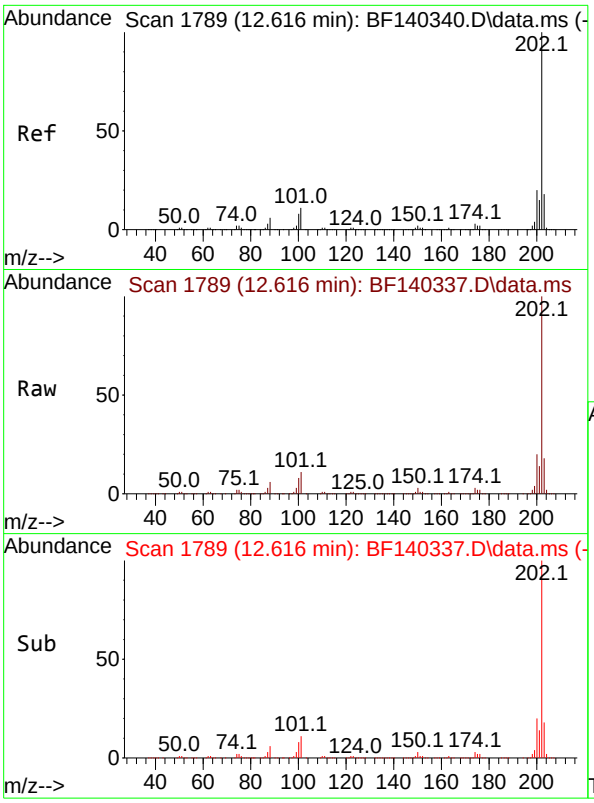


#74
Di-n-butylphthalate
Concen: 47.487 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:149 Resp: 1745220

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.2
104	4.9	4.0	6.0



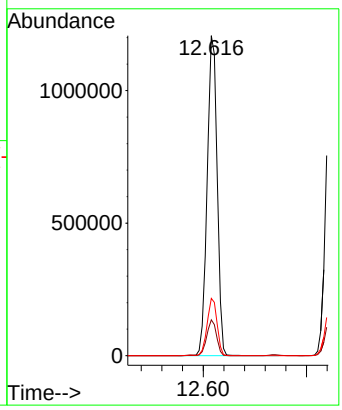


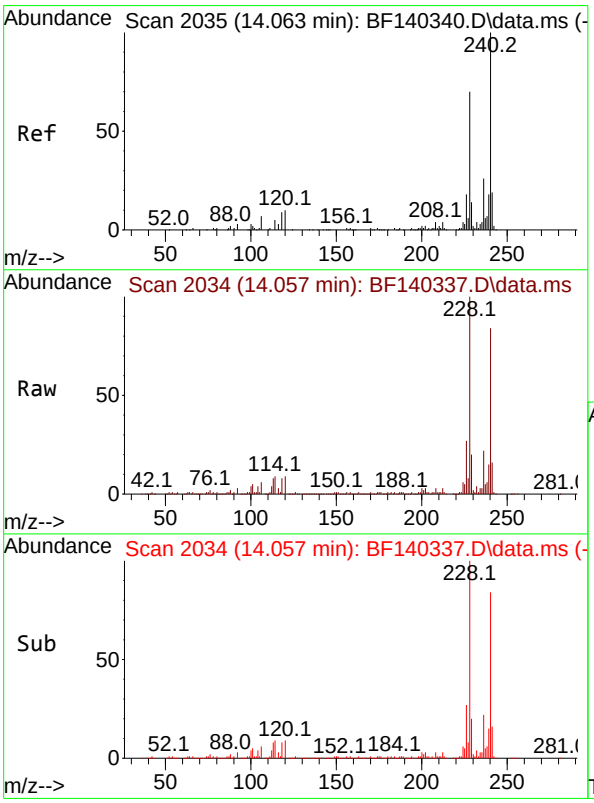
#75
Fluoranthene
Concen: 45.637 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 1620115

Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	30.7
203	17.9	0.0	37.7

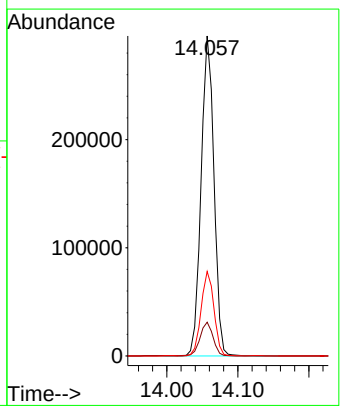


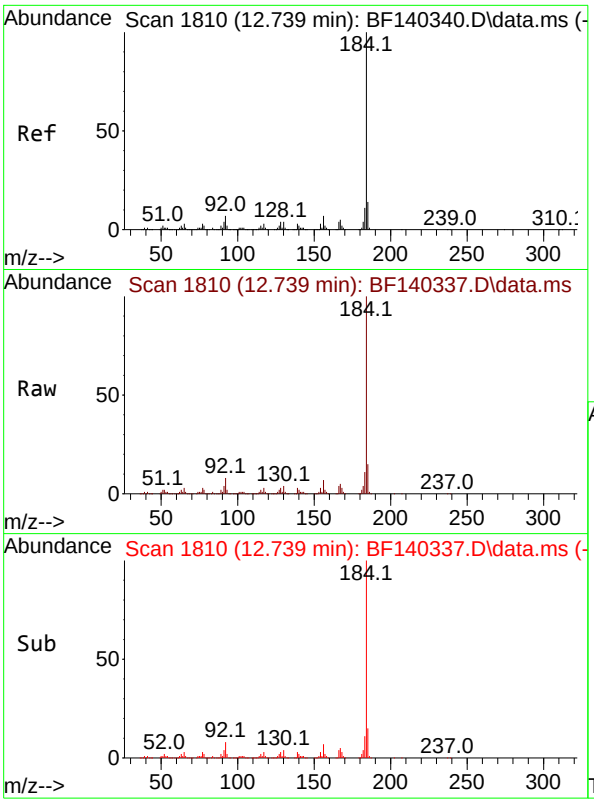


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:240 Resp: 373903

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.8	13.2
236	26.4	20.9	31.3



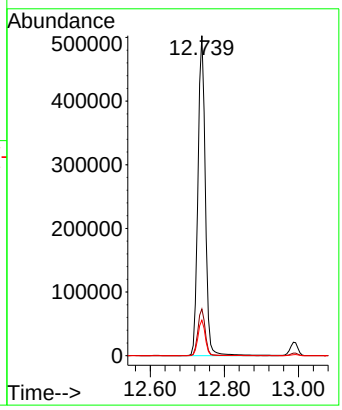


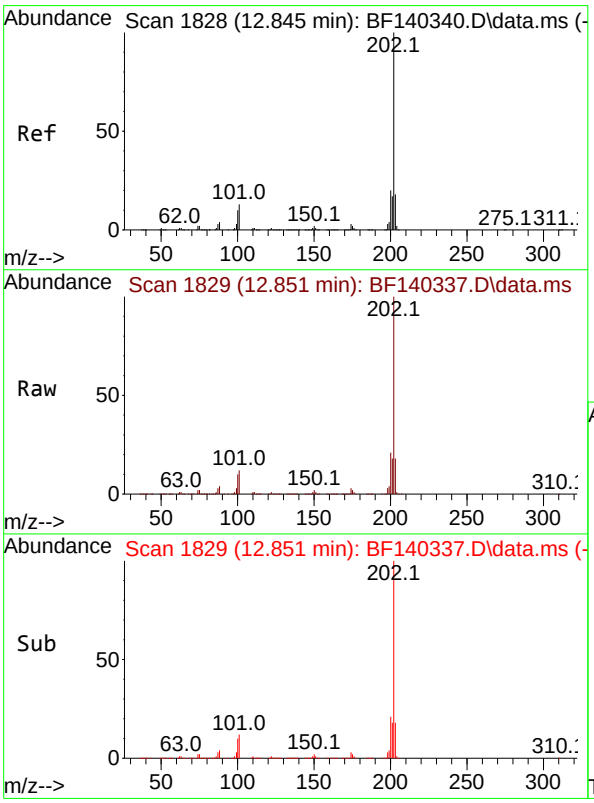
#77
Benzidine
Concen: 48.345 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 693785

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.9	17.9
183	11.1	8.6	13.0

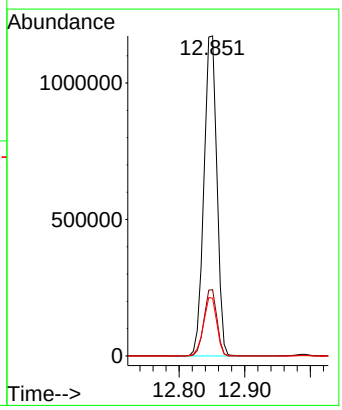


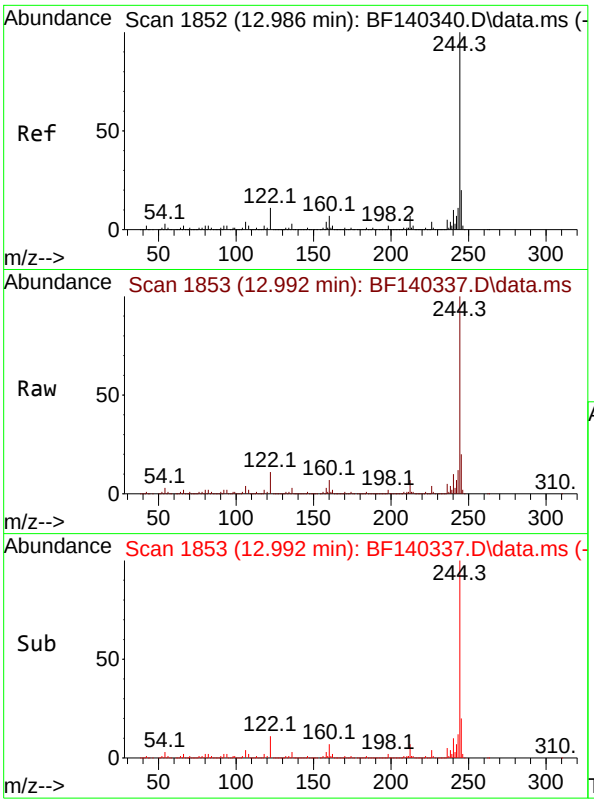


#78
Pyrene
Concen: 50.507 ng
RT: 12.851 min Scan# 1829
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:202 Resp: 1615345

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.2	24.2
203	18.0	14.2	21.4



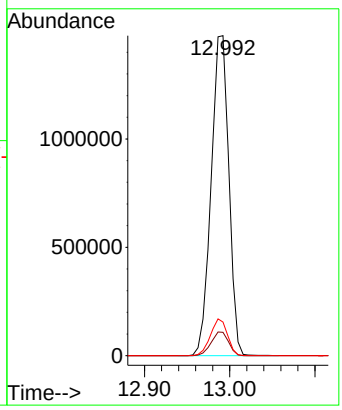


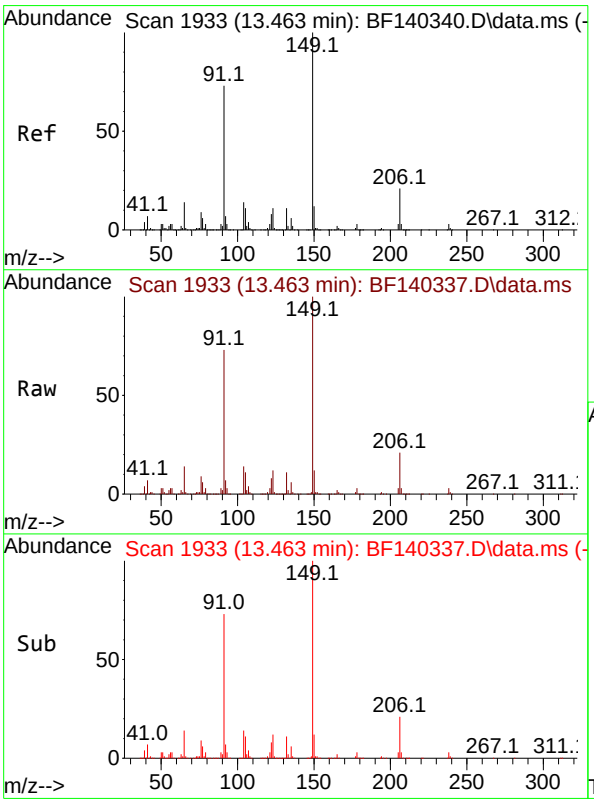
#79
Terphenyl-d14
Concen: 98.876 ng
RT: 12.992 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 2129859

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	10.5	8.8	13.2

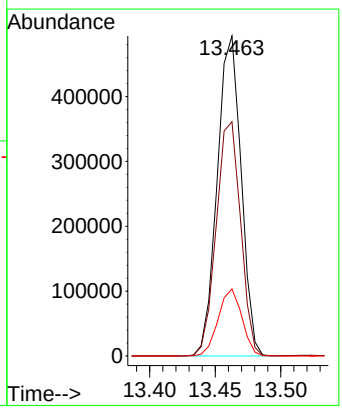


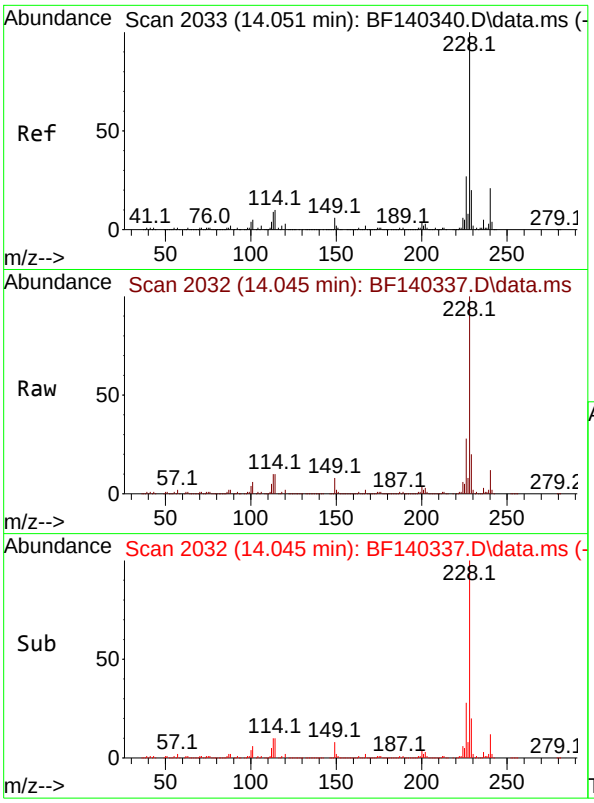


#80
Butylbenzylphthalate
Concen: 50.971 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:149 Resp: 626234

Ion	Ratio	Lower	Upper
149	100		
91	73.2	61.0	91.4
206	21.0	16.1	24.1



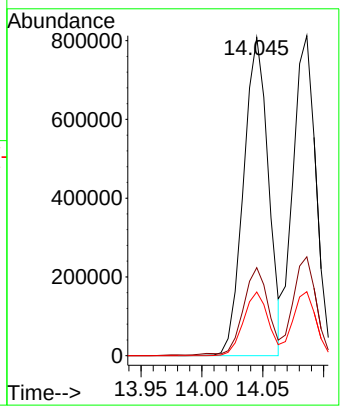


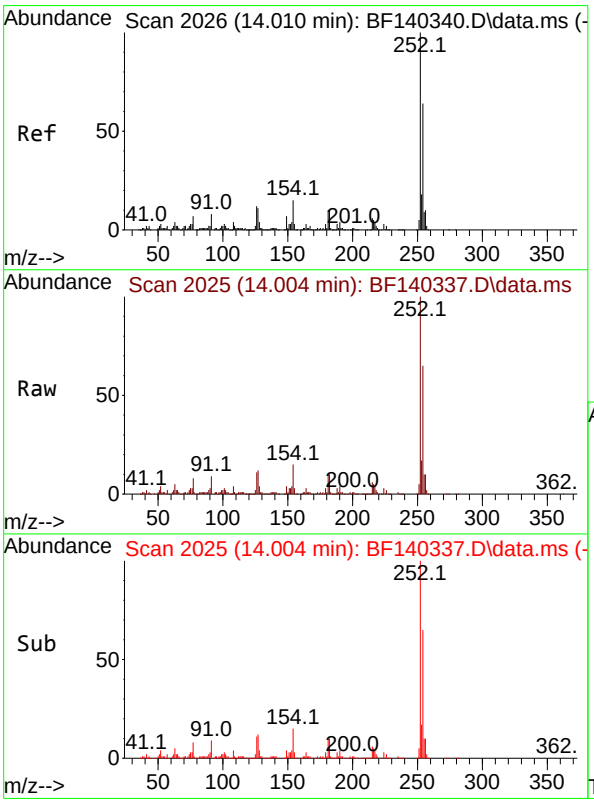
#81
Benzo(a)anthracene
Concen: 46.743 ng
RT: 14.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1148657

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	20.0	15.8	23.6

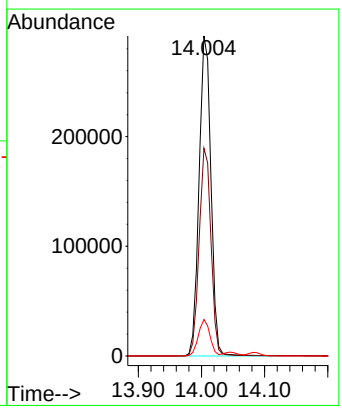


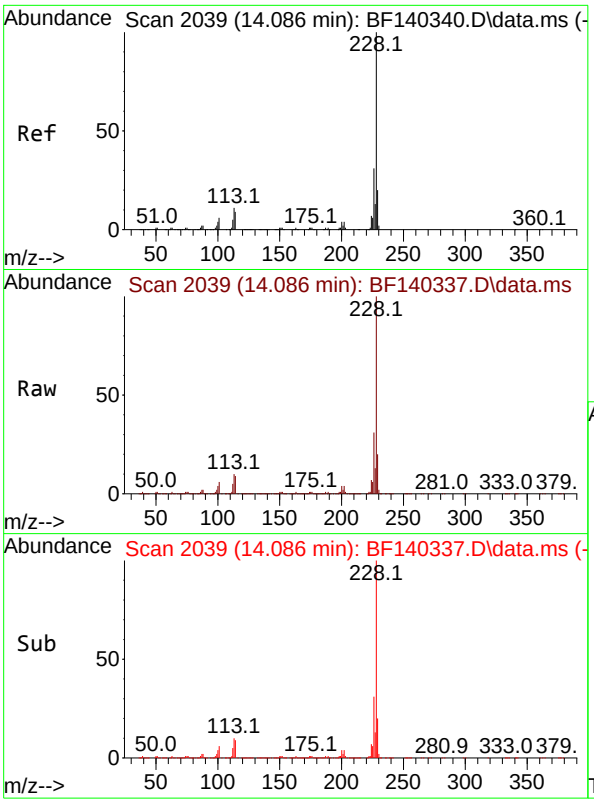


#82
3,3'-Dichlorobenzidine
Concen: 48.617 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:252 Resp: 379732

Ion	Ratio	Lower	Upper
252	100		
254	64.9	51.4	77.2
126	11.4	9.4	14.0



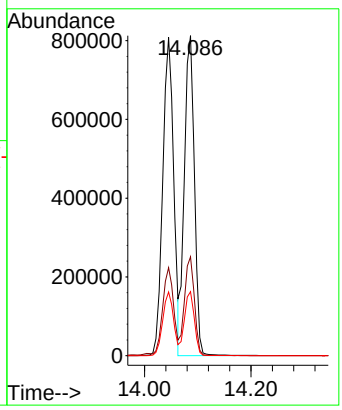


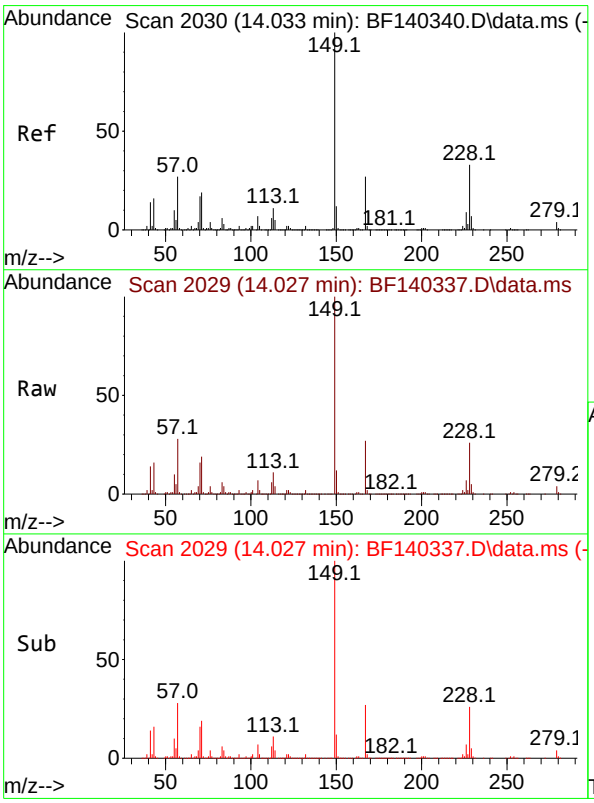
#83
Chrysene
Concen: 47.398 ng
RT: 14.086 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1062734

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.5	36.7
229	20.0	16.0	24.0

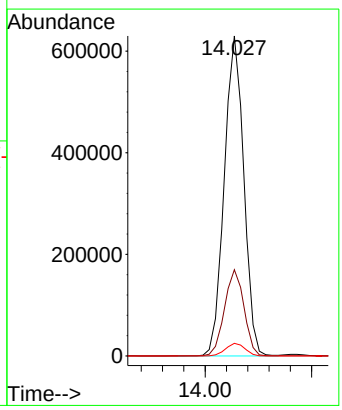


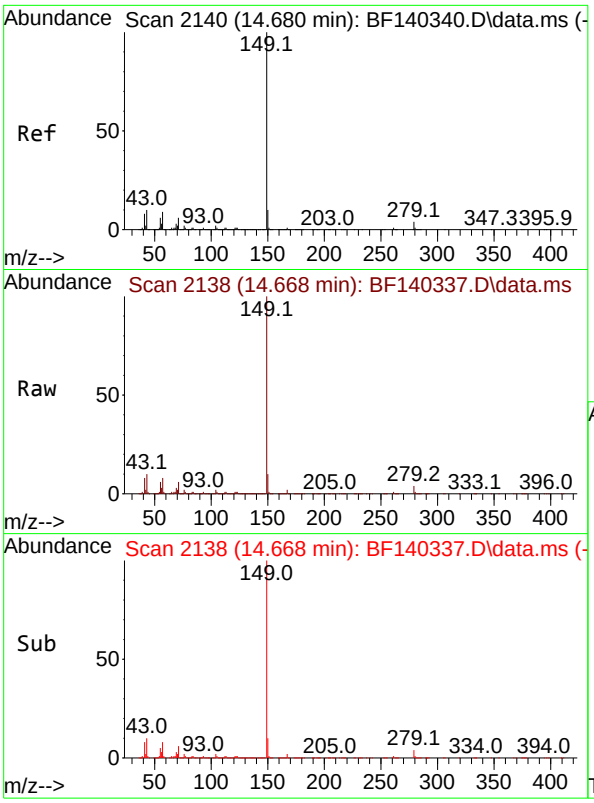


#84
Bis(2-ethylhexyl)phthalate
Concen: 48.894 ng
RT: 14.027 min Scan# 2029
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:149 Resp: 801820

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.4	32.0
279	3.9	3.0	4.6



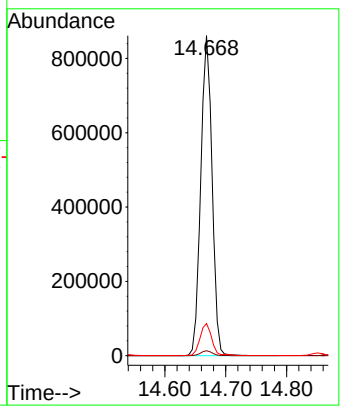


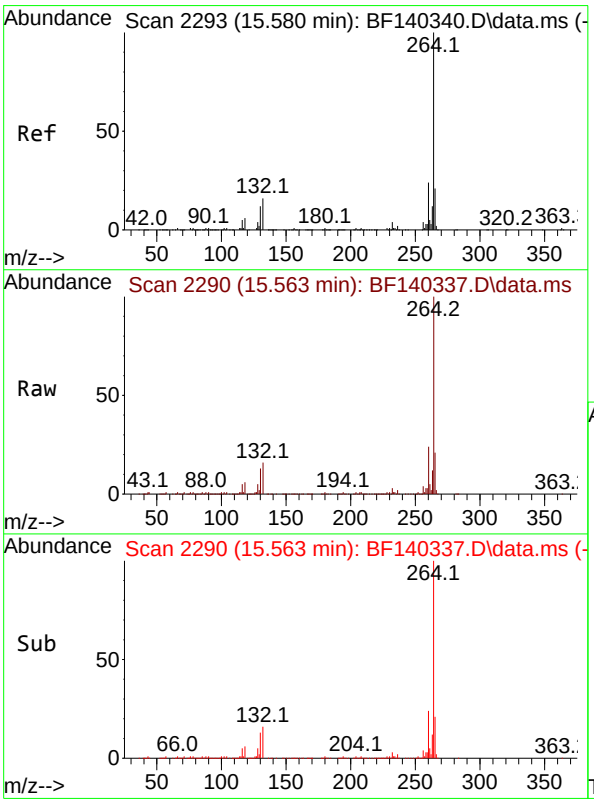
#85
Di-n-octyl phthalate
Concen: 48.030 ng
RT: 14.668 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 1109314

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.5	8.0	12.0

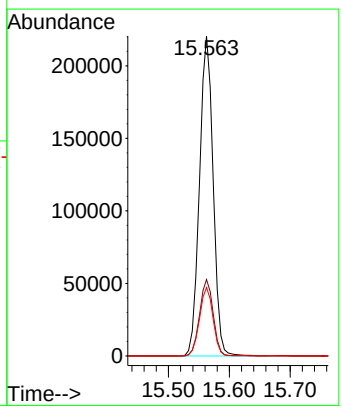


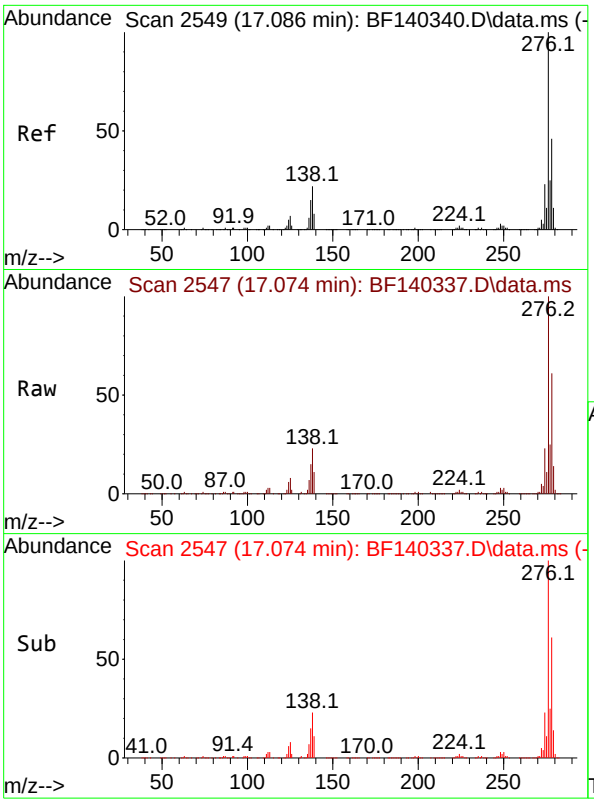


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2290
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:264 Resp: 343764

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.4	17.1	25.7



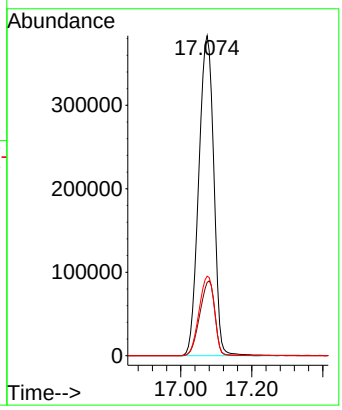


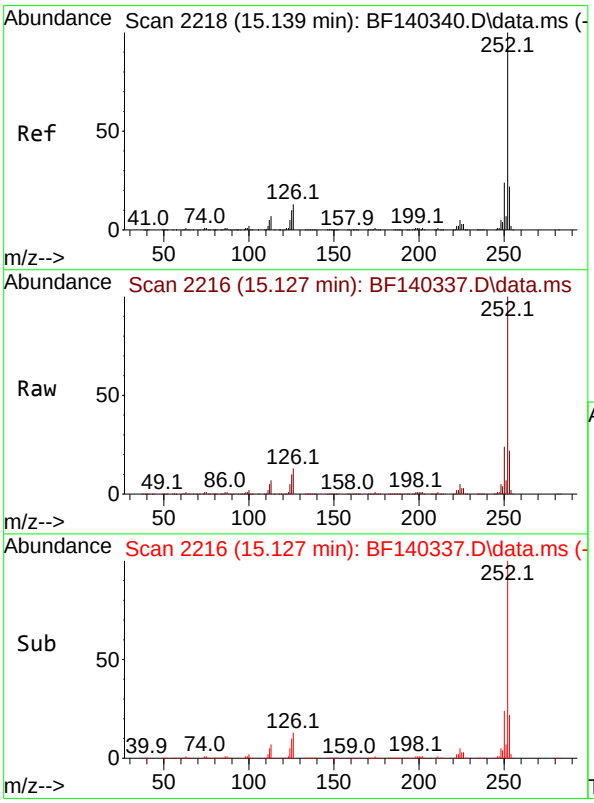
#87
Indeno(1,2,3-cd)pyrene
Concen: 53.247 ng
RT: 17.074 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 1130711

Ion	Ratio	Lower	Upper
276	100		
138	23.4	18.8	28.2
277	25.4	20.2	30.2

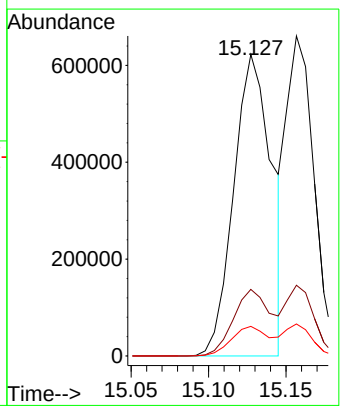


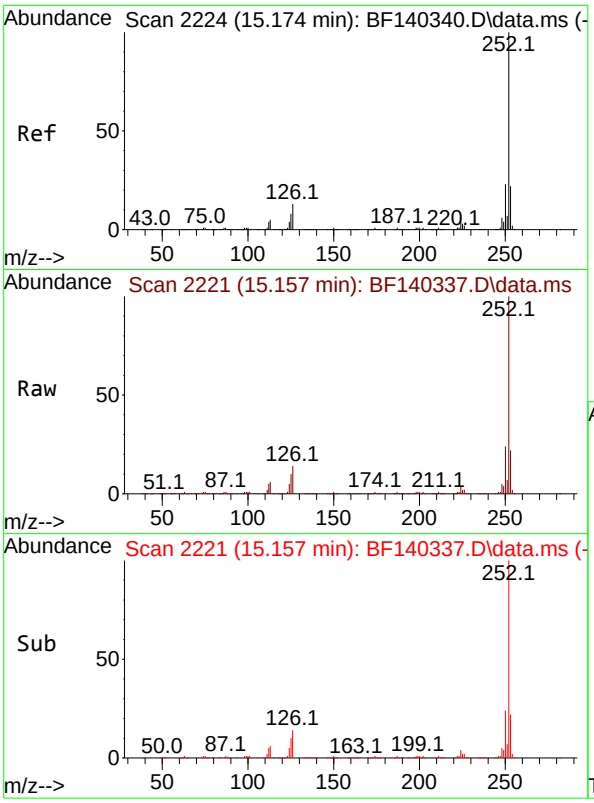


#88
Benzo(b)fluoranthene
Concen: 47.198 ng
RT: 15.127 min Scan# 2216
Delta R.T. 0.012 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:252 Resp: 1061367

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.8	8.0	12.0



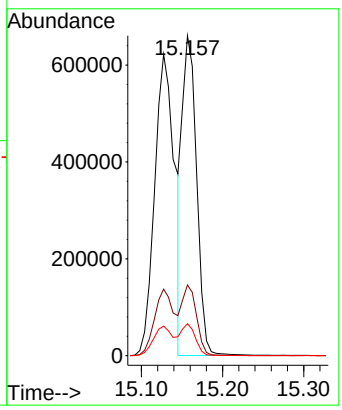


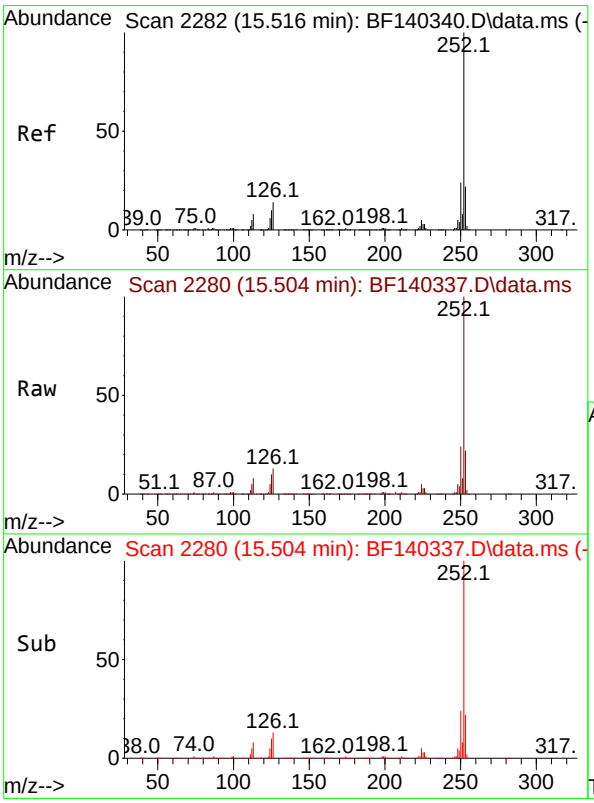
#89
Benzo(k)fluoranthene
Concen: 44.558 ng
RT: 15.157 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 818554

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.3	25.9
125	10.0	7.4	11.2

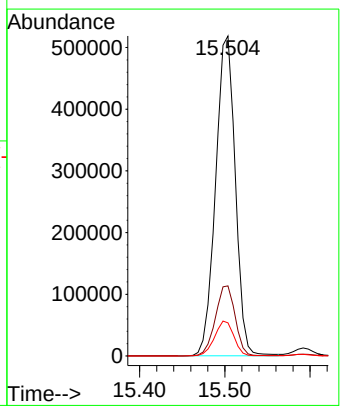


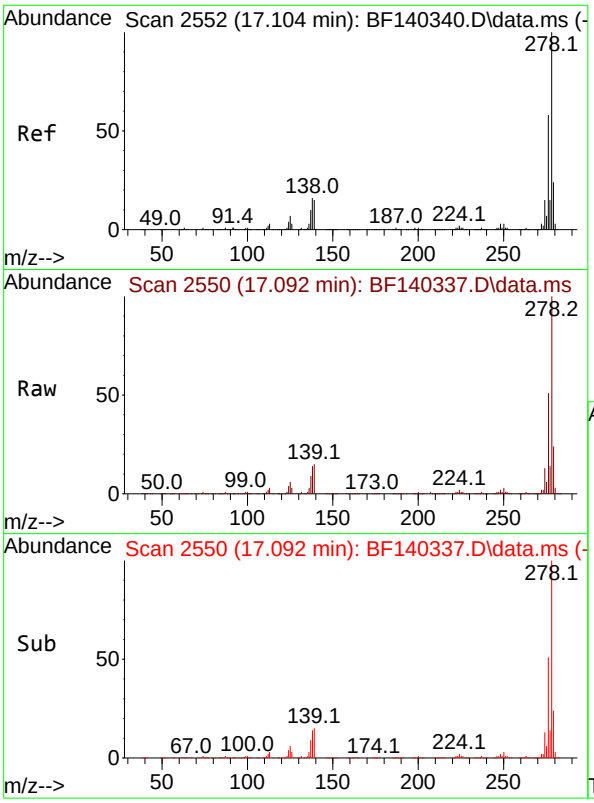


#90
Benzo(a)pyrene
Concen: 47.745 ng
RT: 15.504 min Scan# 2280
Delta R.T. 0.012 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:252 Resp: 833765

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	10.3	8.4	12.6



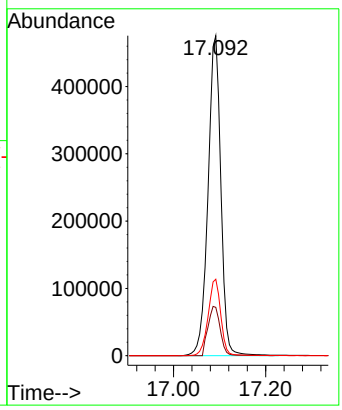


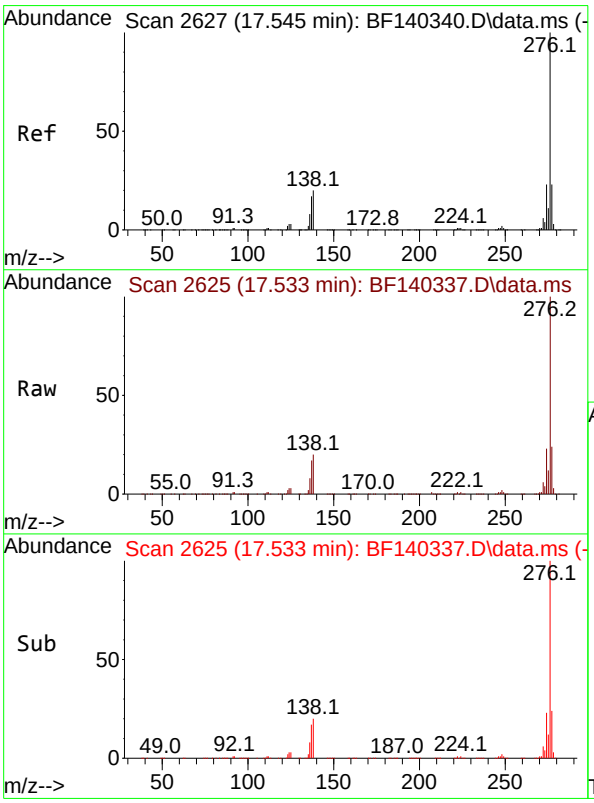
#91
Dibenzo(a,h)anthracene
Concen: 52.593 ng
RT: 17.092 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 923159

Ion	Ratio	Lower	Upper
278	100		
139	15.1	11.8	17.8
279	23.9	18.9	28.3

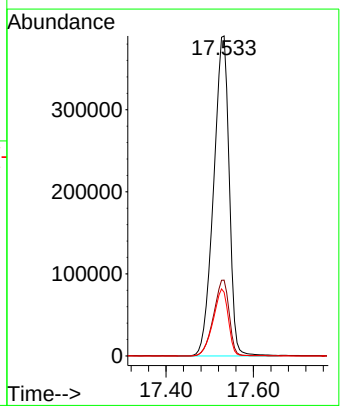




#92
Benzo(g,h,i)perylene
Concen: 53.714 ng
RT: 17.533 min Scan# 2625
Delta R.T. 0.018 min
Lab File: BF140337.D
Acq: 13 Nov 2024 11:21

Tgt Ion:276 Resp: 963891

Ion	Ratio	Lower	Upper
276	100		
277	23.7	18.6	28.0
138	19.9	16.0	24.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140338.D
Acq On : 13 Nov 2024 11:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Nov 13 14:26:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	169226	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	626974	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	349852	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	653888	20.000	ng		0.00
76) Chrysene-d12	14.057	240	336717	20.000	ng		0.00
86) Perylene-d12	15.568	264	334279	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	1135551	114.570	ng		0.00
7) Phenol-d6	6.516	99	1529819	113.924	ng		0.01
23) Nitrobenzene-d5	7.445	82	1426102	118.512	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	397743	114.327	ng		0.00
45) 2-Fluorobiphenyl	9.233	172	2330064	107.065	ng		0.00
79) Terphenyl-d14	12.992	244	2404917	123.975	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.646	88	257092	58.199	ng		99
3) Pyridine	3.416	79	627905	57.818	ng		100
4) n-Nitrosodimethylamine	3.387	42	340452	62.027	ng		97
6) Aniline	6.545	93	644899	55.207	ng	#	84
8) 2-Chlorophenol	6.669	128	601333	56.481	ng		99
9) Benzaldehyde	6.434	77	397310	49.367	ng		99
10) Phenol	6.528	94	810917	57.263	ng		94
11) bis(2-Chloroethyl)ether	6.622	93	633964	59.083	ng		98
12) 1,3-Dichlorobenzene	6.822	146	668862	56.939	ng		99
13) 1,4-Dichlorobenzene	6.898	146	673261	56.523	ng		99
14) 1,2-Dichlorobenzene	7.051	146	616097	55.716	ng		98
15) Benzyl Alcohol	7.022	79	562583	58.150	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	855004	57.688	ng		93
17) 2-Methylphenol	7.134	107	515819	58.895	ng		98
18) Hexachloroethane	7.392	117	256957	58.354	ng		98
19) n-Nitroso-di-n-propyla...	7.298	70	459430	56.648	ng		99
20) 3+4-Methylphenols	7.286	107	608092	55.518	ng		99
22) Acetophenone	7.292	105	829586	56.891	ng	#	98
24) Nitrobenzene	7.469	77	740612	59.113	ng		99
25) Isophorone	7.704	82	1261423	59.147	ng		100
26) 2-Nitrophenol	7.781	139	339960	61.146	ng		99
27) 2,4-Dimethylphenol	7.810	122	426510	59.920	ng		98
28) bis(2-Chloroethoxy)met...	7.910	93	760029	58.119	ng		99
29) 2,4-Dichlorophenol	8.022	162	511715	58.170	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	566322	57.824	ng		100
31) Naphthalene	8.186	128	1796725	56.491	ng		99
32) Benzoic acid	7.957	122	425502	68.049	ng		97
33) 4-Chloroaniline	8.239	127	639243	57.793	ng		100
34) Hexachlorobutadiene	8.298	225	358172	57.398	ng		100
35) Caprolactam	8.622	113	178777	60.447	ng		95
36) 4-Chloro-3-methylphenol	8.716	107	571401	58.614	ng		100
37) 2-Methylnaphthalene	8.875	142	1141963	55.995	ng		100
38) 1-Methylnaphthalene	8.975	142	1113216	55.742	ng		100
40) 1,2,4,5-Tetrachloroben...	9.039	216	542595	56.085	ng		100
41) Hexachlorocyclopentadiene	9.022	237	166455	67.012	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	369027	58.123	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140338.D
Acq On : 13 Nov 2024 11:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Nov 13 14:26:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	408838	58.897	ng	99
46) 1,1'-Biphenyl	9.339	154	1409617	55.384	ng	100
47) 2-Chloronaphthalene	9.363	162	1100798	56.777	ng	99
48) 2-Nitroaniline	9.457	65	384307	59.769	ng	96
49) Acenaphthylene	9.780	152	1628948	55.531	ng	99
50) Dimethylphthalate	9.639	163	1305952	57.269	ng	100
51) 2,6-Dinitrotoluene	9.704	165	303778	58.434	ng	99
52) Acenaphthene	9.951	154	1132725	57.171	ng	100
53) 3-Nitroaniline	9.875	138	313217	57.370	ng	100
54) 2,4-Dinitrophenol	9.980	184	178562	66.606	ng	99
55) Dibenzofuran	10.122	168	1538256	54.845	ng	99
56) 4-Nitrophenol	10.033	139	249200	62.577	ng	99
57) 2,4-Dinitrotoluene	10.110	165	401261	58.647	ng	96
58) Fluorene	10.469	166	1193733	53.876	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	317173	57.919	ng	99
60) Diethylphthalate	10.339	149	1308229	56.104	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	594806	54.376	ng	99
62) 4-Nitroaniline	10.492	138	328847	58.909	ng	100
63) Azobenzene	10.616	77	1305799	56.677	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	234662	66.702	ng	97
66) n-Nitrosodiphenylamine	10.580	169	1061092	56.163	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	369051	56.461	ng	97
68) Hexachlorobenzene	11.016	284	422038	57.387	ng	98
69) Atrazine	11.104	200	402831	70.474	ng	99
70) Pentachlorophenol	11.210	266	255229	64.427	ng	99
71) Phenanthrene	11.427	178	1669857	54.363	ng	99
72) Anthracene	11.480	178	1644863	54.639	ng	99
73) Carbazole	11.633	167	1635888	55.034	ng	99
74) Di-n-butylphthalate	11.963	149	2005925	56.225	ng	100
75) Fluoranthene	12.621	202	1830547	53.118	ng	99
77) Benzidine	12.739	184	963069	74.521	ng	99
78) Pyrene	12.851	202	1817826	63.115	ng	99
80) Butylbenzylphthalate	13.463	149	687900	62.173	ng	98
81) Benzo(a)anthracene	14.045	228	1306865	59.054	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	419937	59.701	ng	100
83) Chrysene	14.086	228	1134734	56.198	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	877334	59.407	ng	99
85) Di-n-octyl phthalate	14.674	149	1253939	60.287	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	1357877	65.759	ng	100
88) Benzo(b)fluoranthene	15.133	252	1236880	56.564	ng	100
89) Benzo(k)fluoranthene	15.162	252	937366	52.473	ng	98
90) Benzo(a)pyrene	15.509	252	982982	57.887	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	1124071	65.856	ng	99
92) Benzo(g,h,i)perylene	17.539	276	1149411	65.870	ng	98

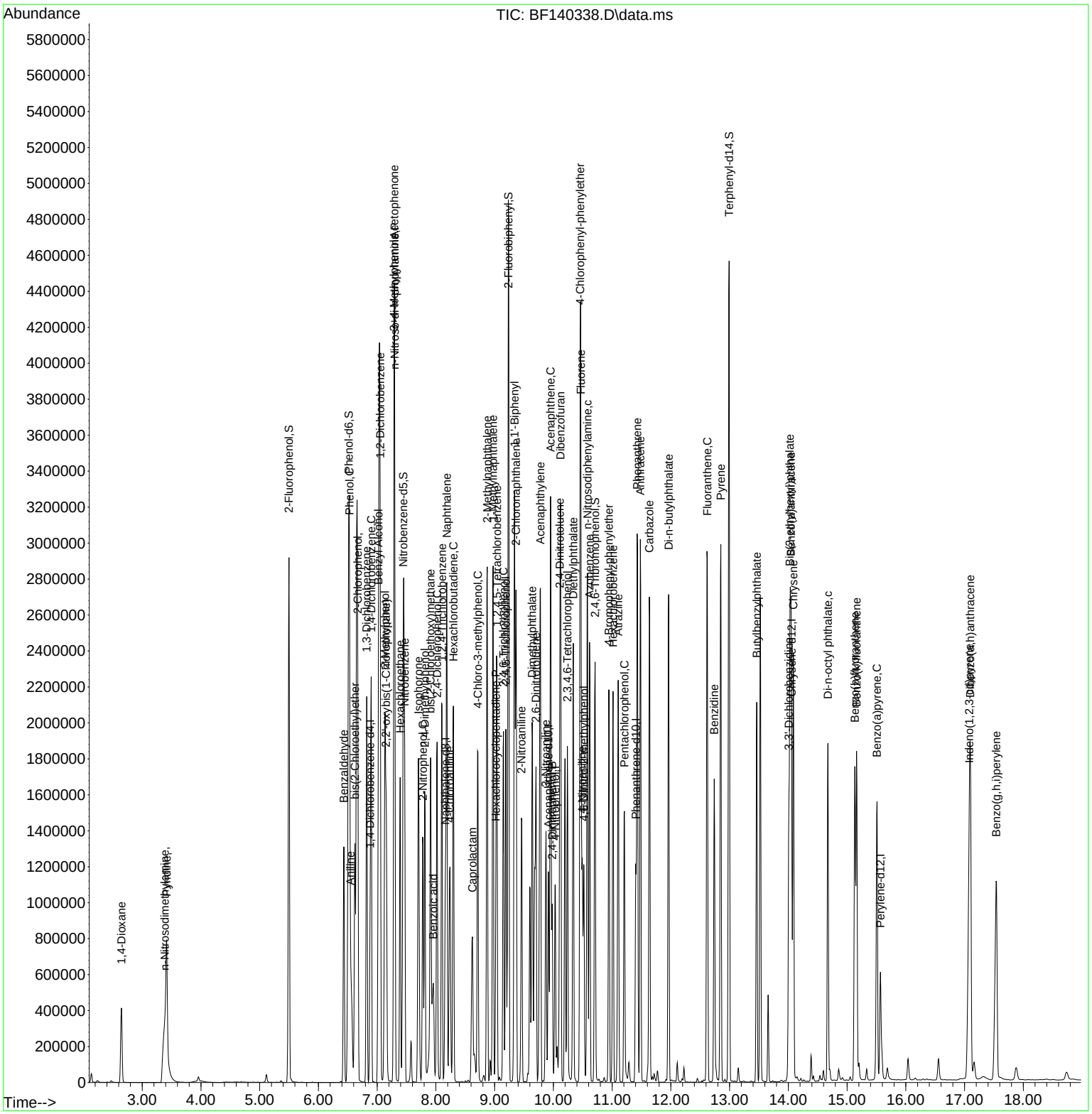
(#) = qualifier out of range (m) = manual integration (+) = signals summed

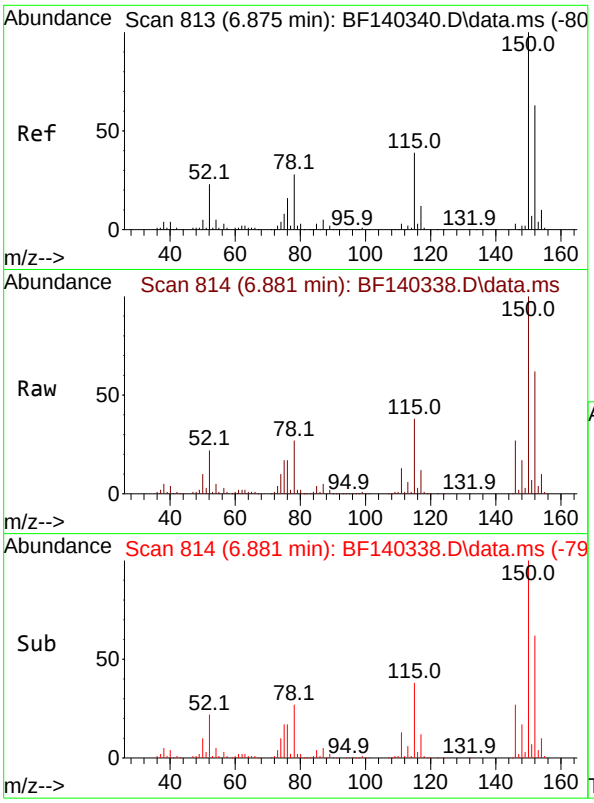
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140338.D
Acq On : 13 Nov 2024 11:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Nov 13 14:26:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



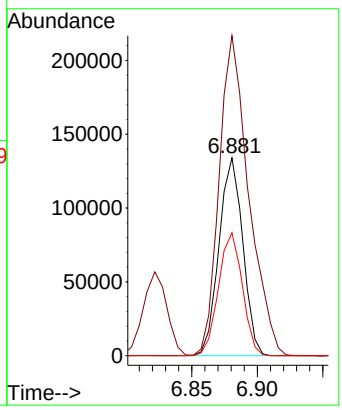


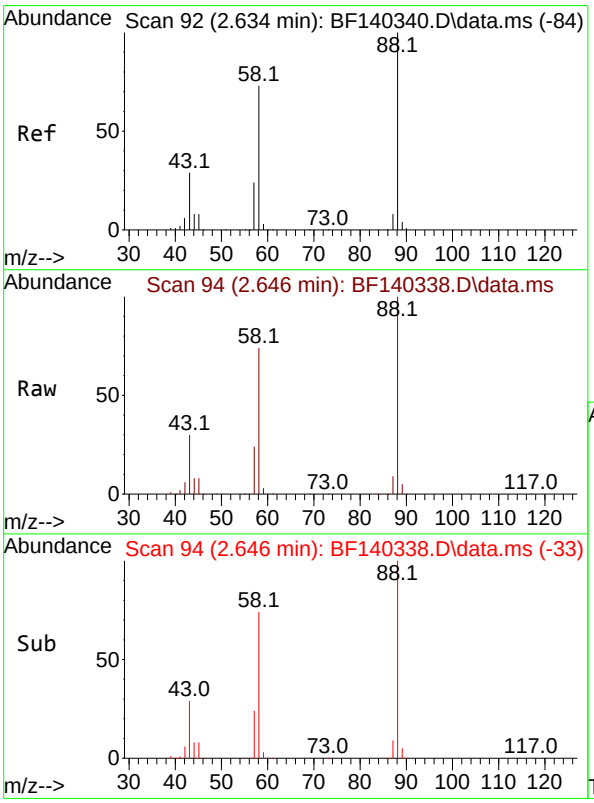
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 169226

Ion	Ratio	Lower	Upper
152	100		
150	161.7	127.4	191.0
115	62.1	47.4	71.2

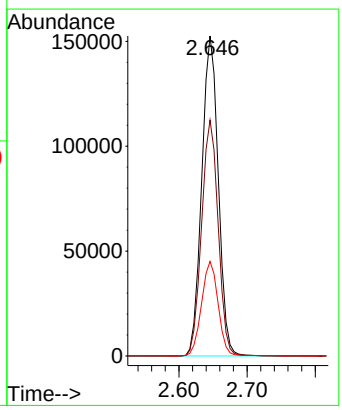


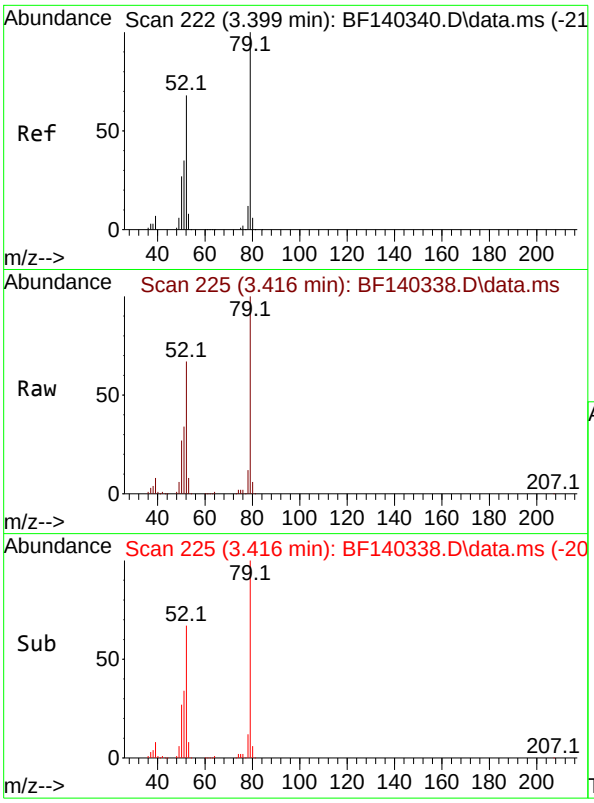


#2
1,4-Dioxane
Concen: 58.199 ng
RT: 2.646 min Scan# 94
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion: 88 Resp: 257092

Ion	Ratio	Lower	Upper
88	100		
58	73.7	59.5	89.3
43	29.6	23.4	35.2



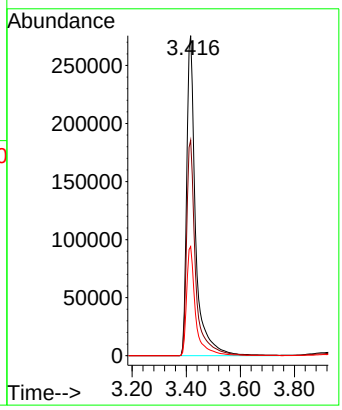


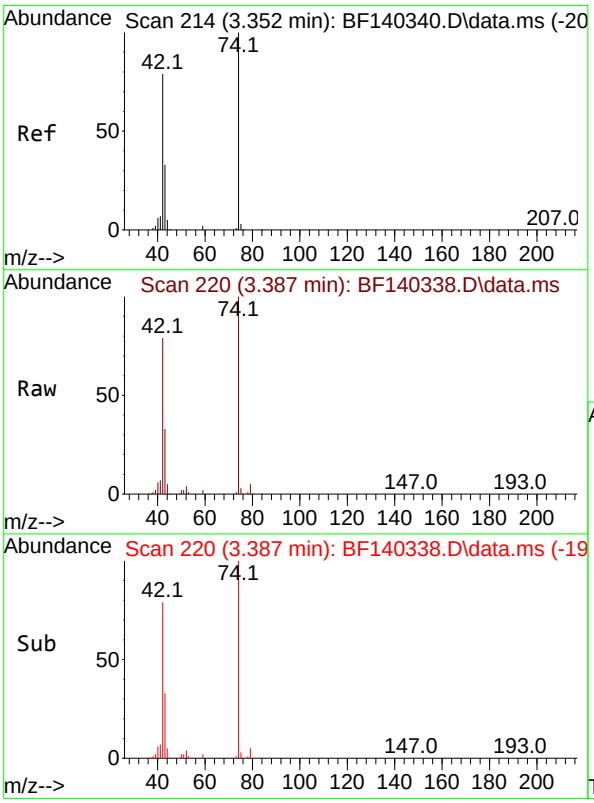
#3
Pyridine
Concen: 57.818 ng
RT: 3.416 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 627905

Ion	Ratio	Lower	Upper
79	100		
52	67.3	53.8	80.6
51	34.1	27.3	40.9

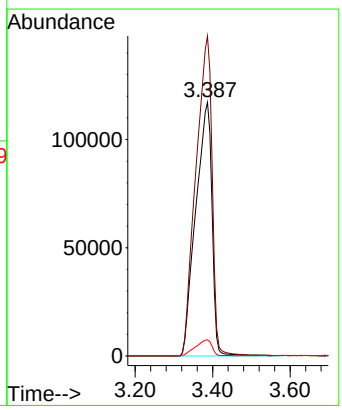


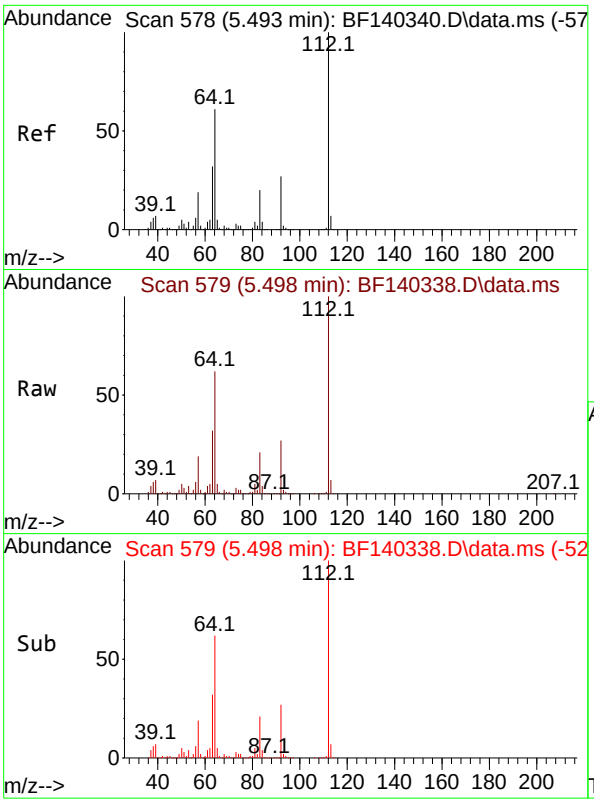


#4
n-Nitrosodimethylamine
Concen: 62.027 ng
RT: 3.387 min Scan# 220
Delta R.T. 0.029 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion: 42 Resp: 340452

Ion	Ratio	Lower	Upper
42	100		
74	126.1	103.5	155.3
44	6.3	5.1	7.7



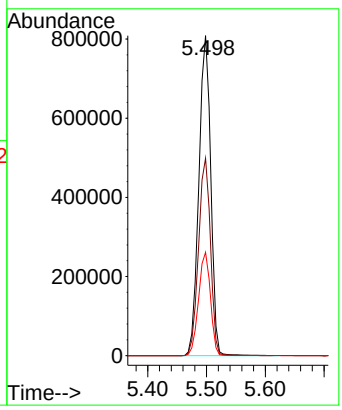


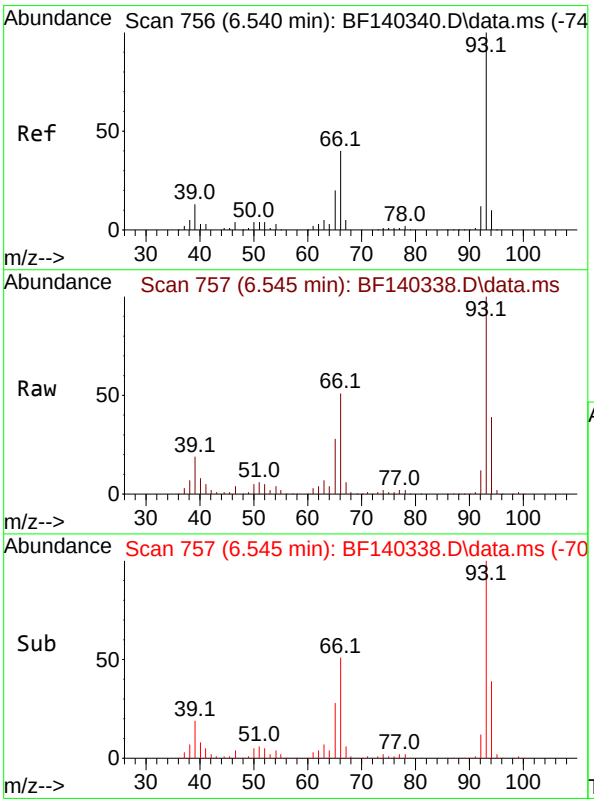
#5
2-Fluorophenol
Concen: 114.570 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 1135551

Ion	Ratio	Lower	Upper
112	100		
64	61.7	49.2	73.8
63	32.3	25.6	38.4

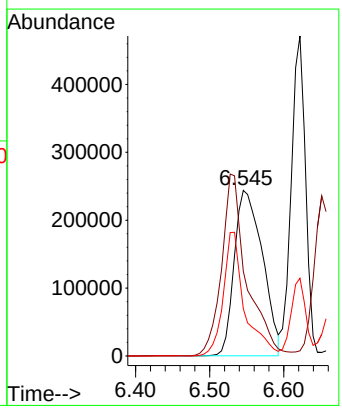


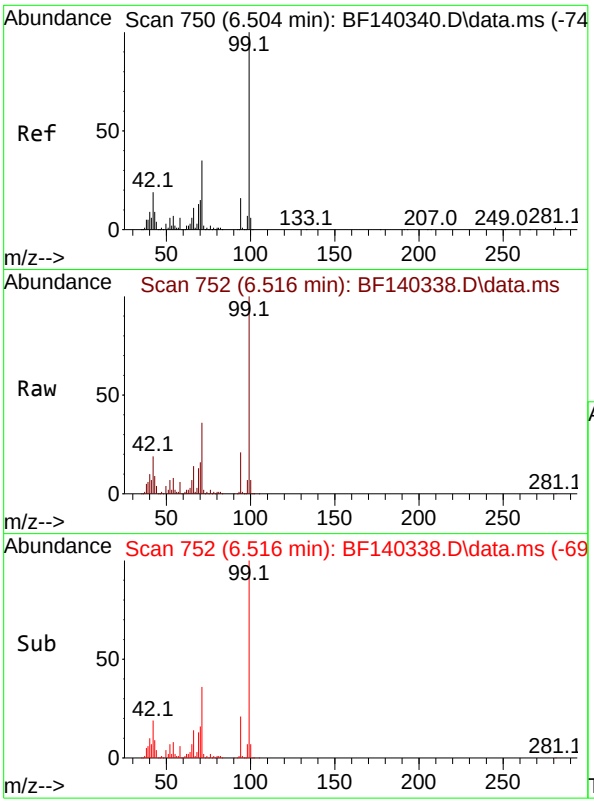


#6
Aniline
Concen: 55.207 ng
RT: 6.545 min Scan# 757
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion: 93 Resp: 644899

Ion	Ratio	Lower	Upper
93	100		
66	51.1	32.8	49.2#
65	28.5	16.6	25.0#



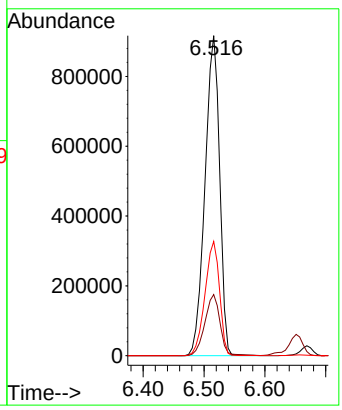


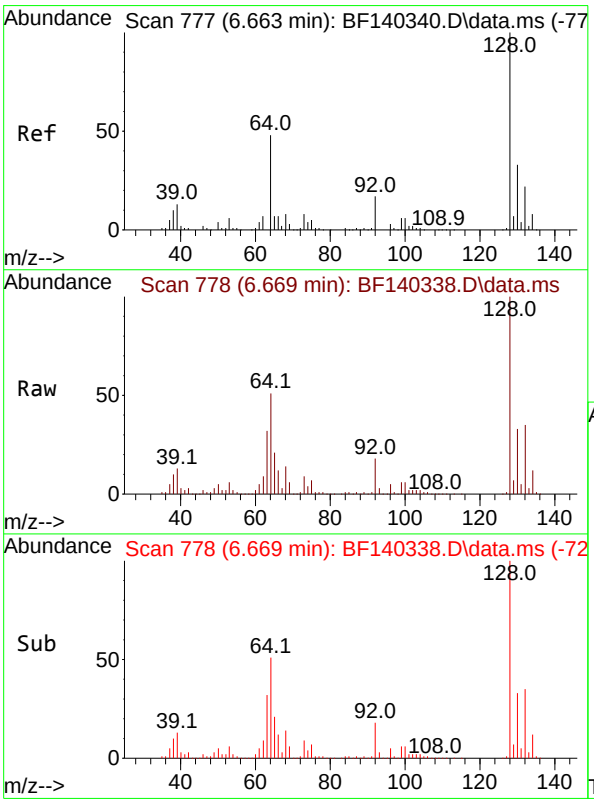
#7
Phenol-d6
Concen: 113.924 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 1529819

Ion	Ratio	Lower	Upper
99	100		
42	19.1	15.1	22.7
71	35.7	27.9	41.9

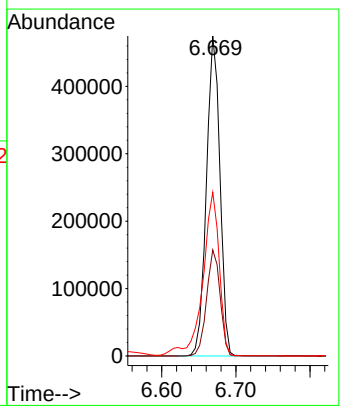


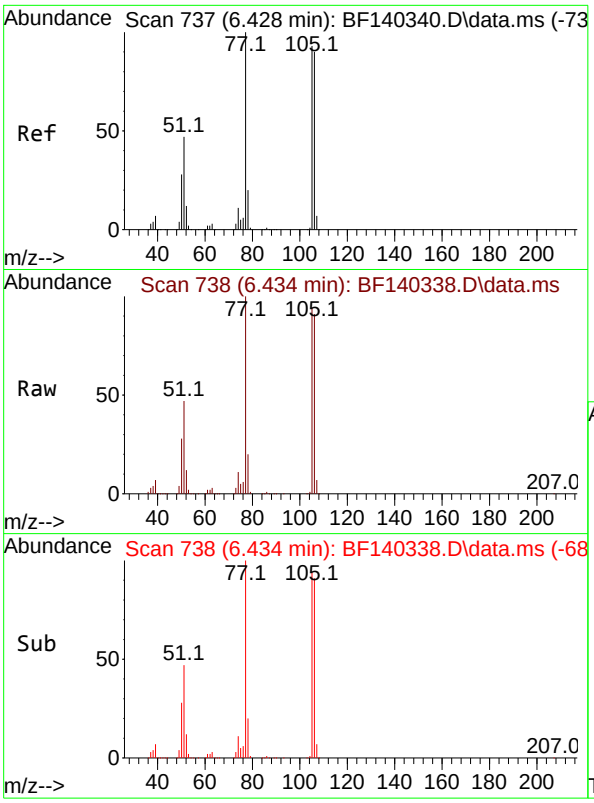


#8
2-Chlorophenol
Concen: 56.481 ng
RT: 6.669 min Scan# 778
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:128 Resp: 601333

Ion	Ratio	Lower	Upper
128	100		
130	33.1	12.2	52.2
64	51.1	30.2	70.2



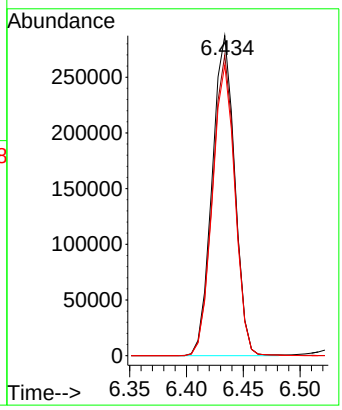


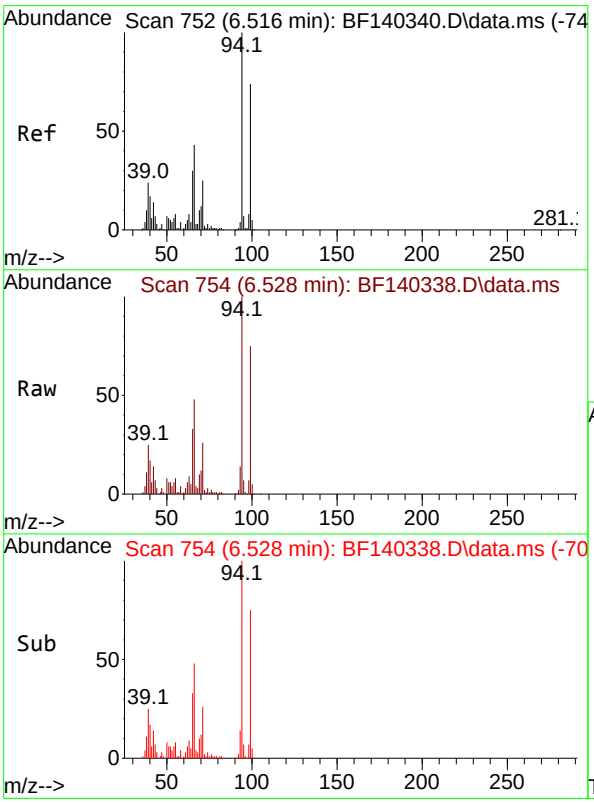
#9
Benzaldehyde
Concen: 49.367 ng
RT: 6.434 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 397310

Ion	Ratio	Lower	Upper
77	100		
105	94.0	74.4	114.4
106	90.9	69.9	109.9

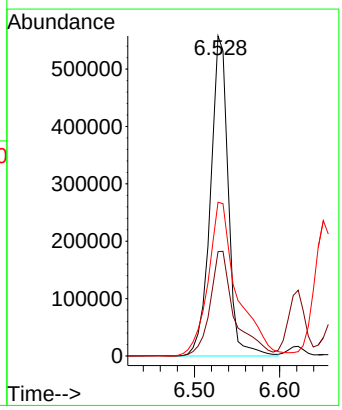


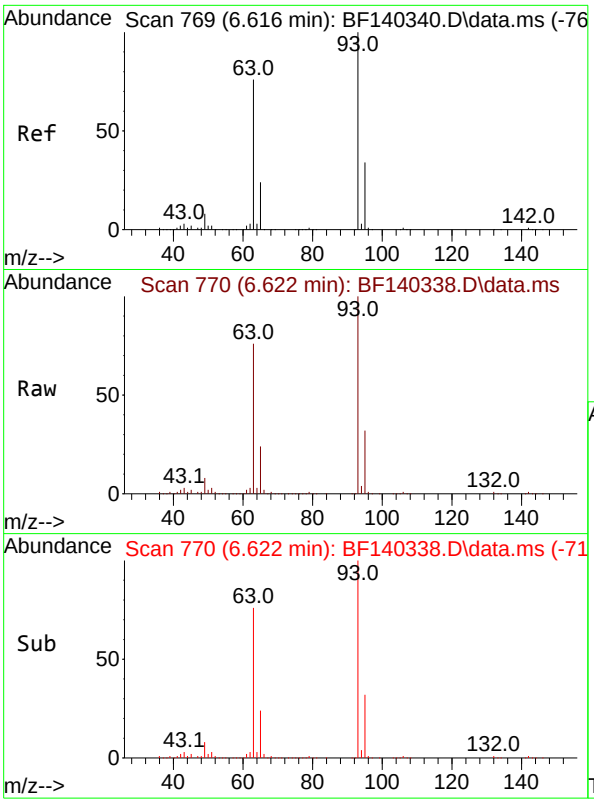


#10
Phenol
Concen: 57.263 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion: 94 Resp: 810917

Ion	Ratio	Lower	Upper
94	100		
65	32.6	10.4	50.4
66	48.1	22.9	62.9



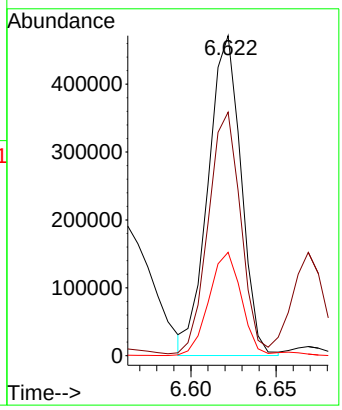


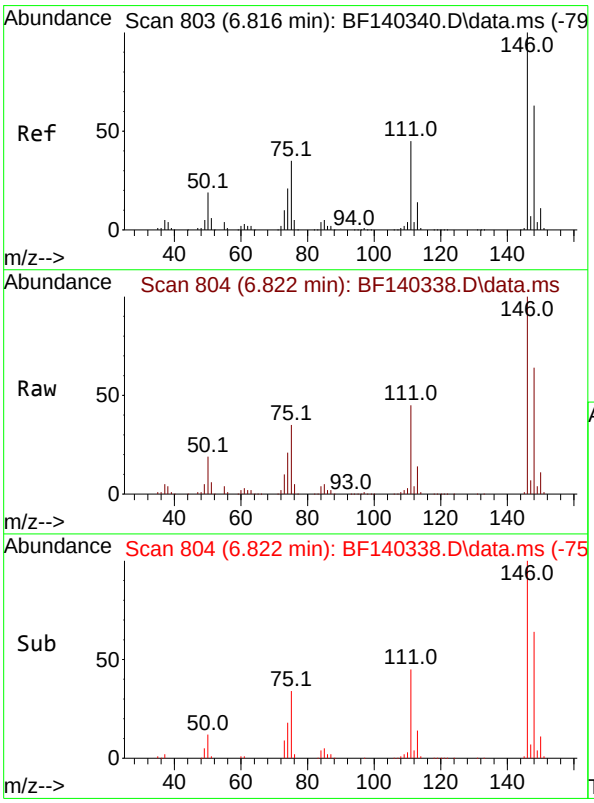
#11
bis(2-Chloroethyl)ether
Concen: 59.083 ng
RT: 6.622 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 633964

Ion	Ratio	Lower	Upper
93	100		
63	76.1	54.0	94.0
95	32.3	12.9	52.9

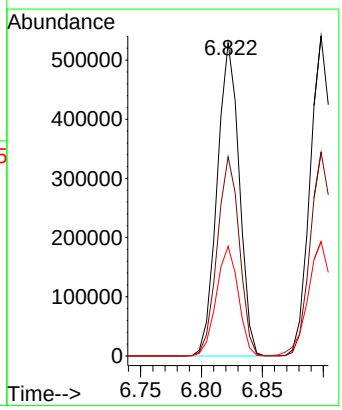


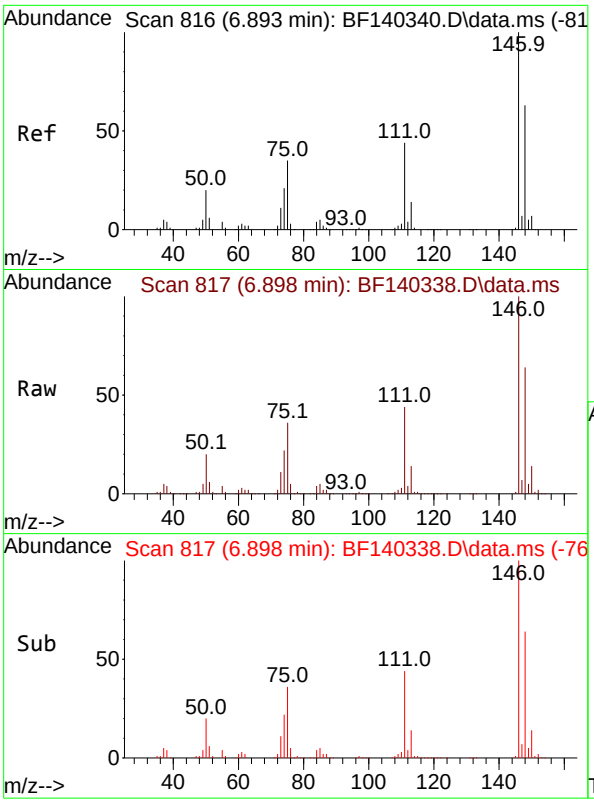


#12
1,3-Dichlorobenzene
Concen: 56.939 ng
RT: 6.822 min Scan# 804
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:146 Resp: 668862

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.7	76.1
75	35.0	26.4	39.6



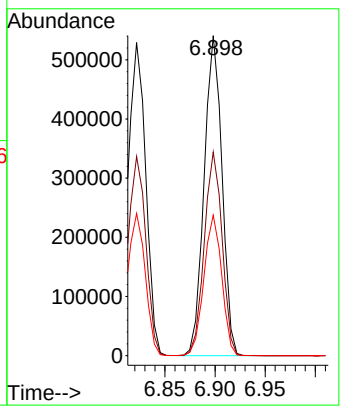


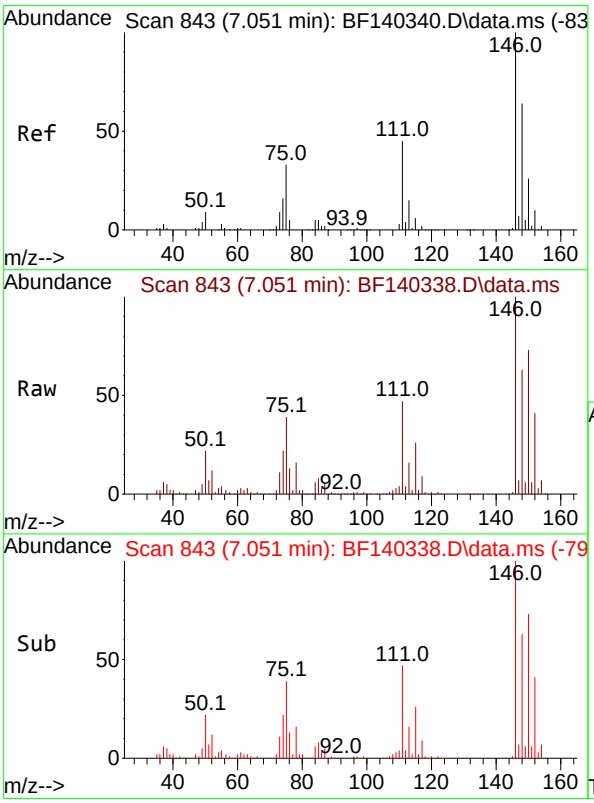
#13
1,4-Dichlorobenzene
Concen: 56.523 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 673261

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.8	76.2
111	43.9	34.2	51.2

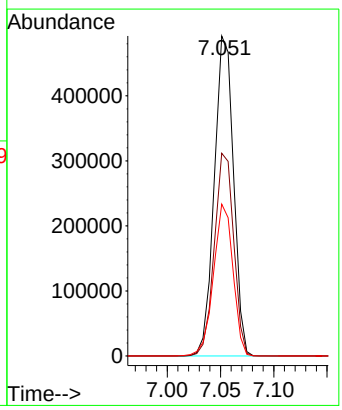


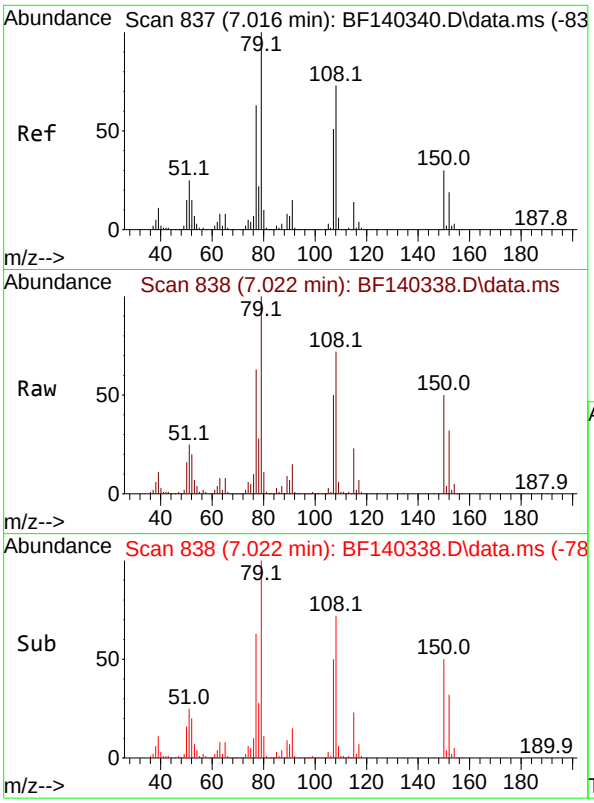


#14
1,2-Dichlorobenzene
Concen: 55.716 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:146 Resp: 616097

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.2	76.8
111	47.5	36.5	54.7



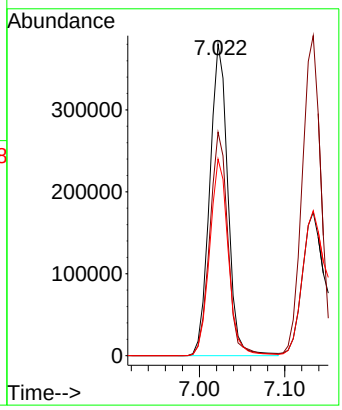


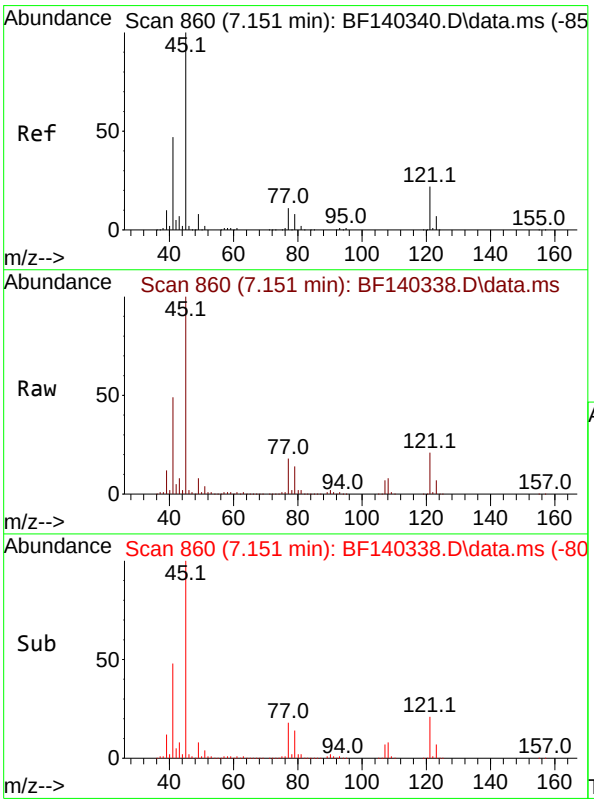
#15
Benzyl Alcohol
Concen: 58.150 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 562583

Ion	Ratio	Lower	Upper
79	100		
108	71.8	57.8	86.6
77	63.1	49.8	74.6

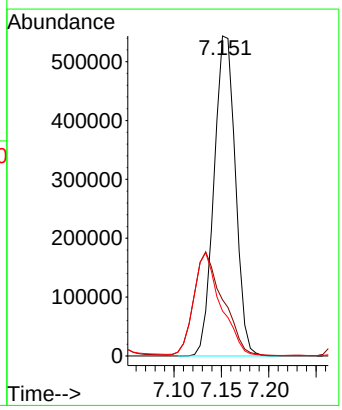


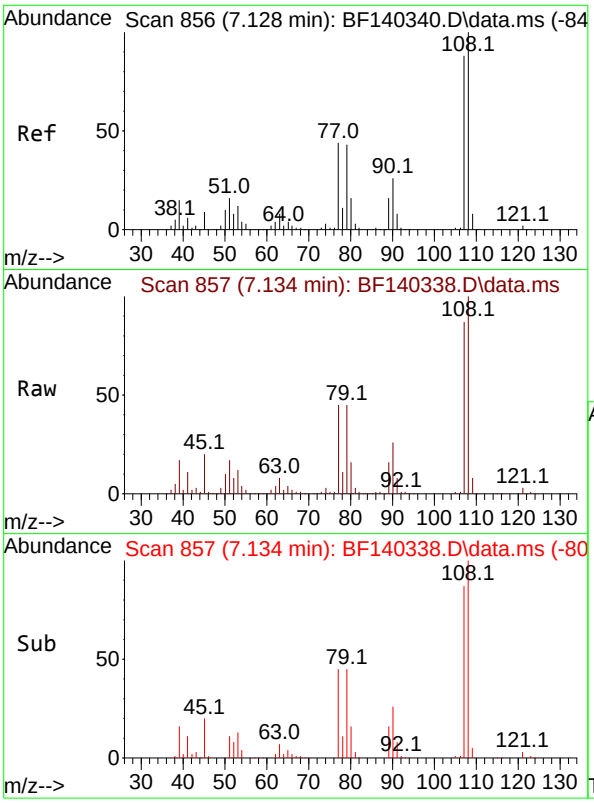


#16
2,2'-oxybis(1-Chloropropane)
Concen: 57.688 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion: 45 Resp: 855004

Ion	Ratio	Lower	Upper
45	100		
77	17.6	0.0	34.8
79	14.1	0.0	31.4



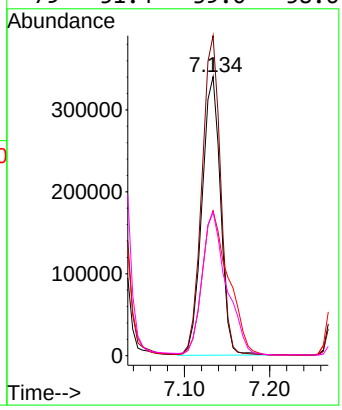


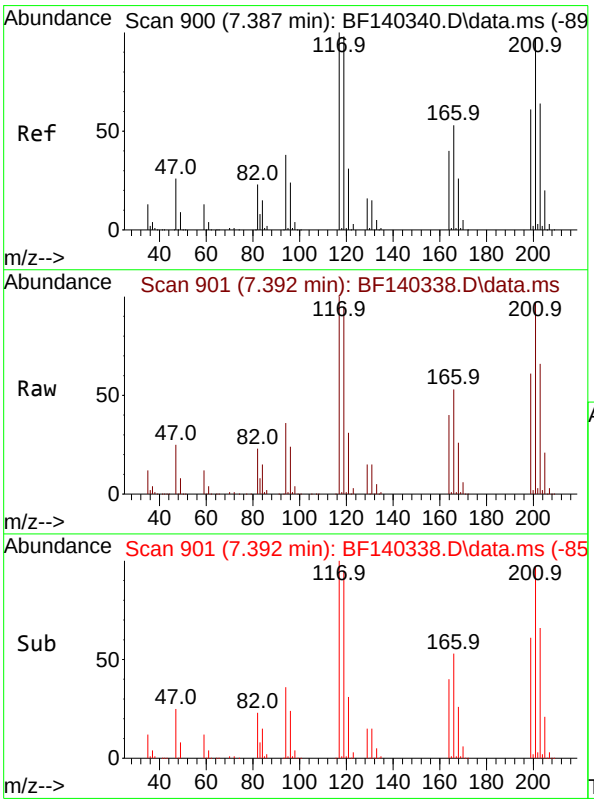
#17
2-Methylphenol
Concen: 58.895 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 515819

Ion	Ratio	Lower	Upper
107	100		
108	114.7	91.9	137.9
77	52.0	39.7	59.5
79	51.4	39.0	58.6

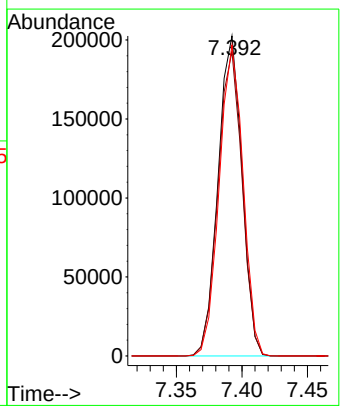


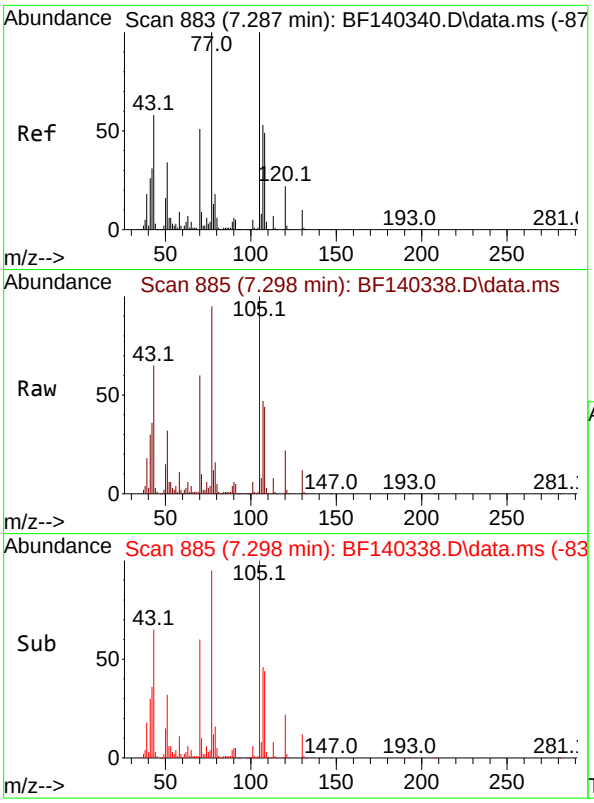


#18
Hexachloroethane
Concen: 58.354 ng
RT: 7.392 min Scan# 901
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:117 Resp: 256957

Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.9	115.3
201	97.2	80.2	120.4



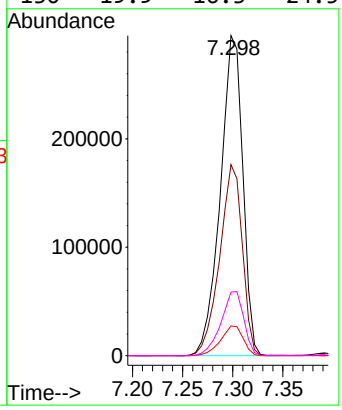


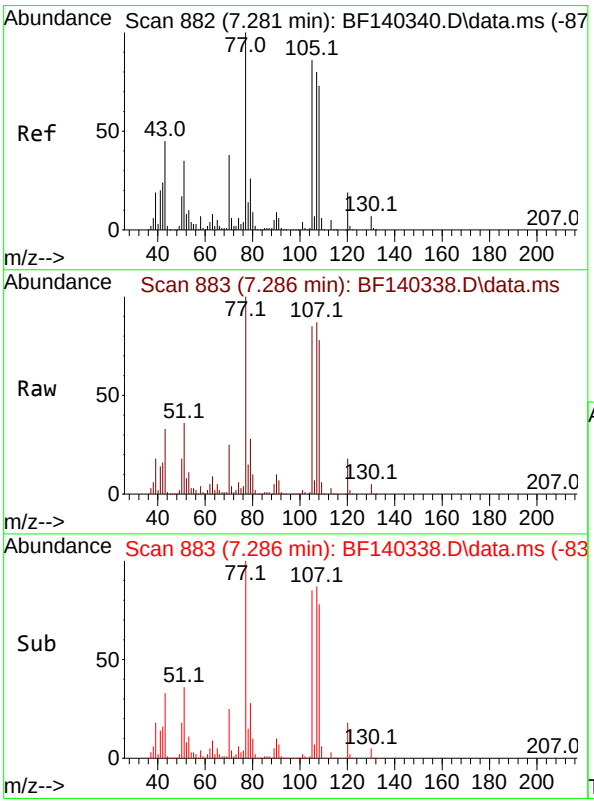
#19
n-Nitroso-di-n-propylamine
Concen: 56.648 ng
RT: 7.298 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 459430

Ion	Ratio	Lower	Upper
70	100		
42	59.7	46.8	70.2
101	9.3	7.5	11.3
130	19.9	16.3	24.5

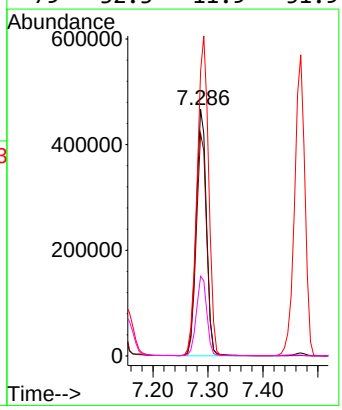


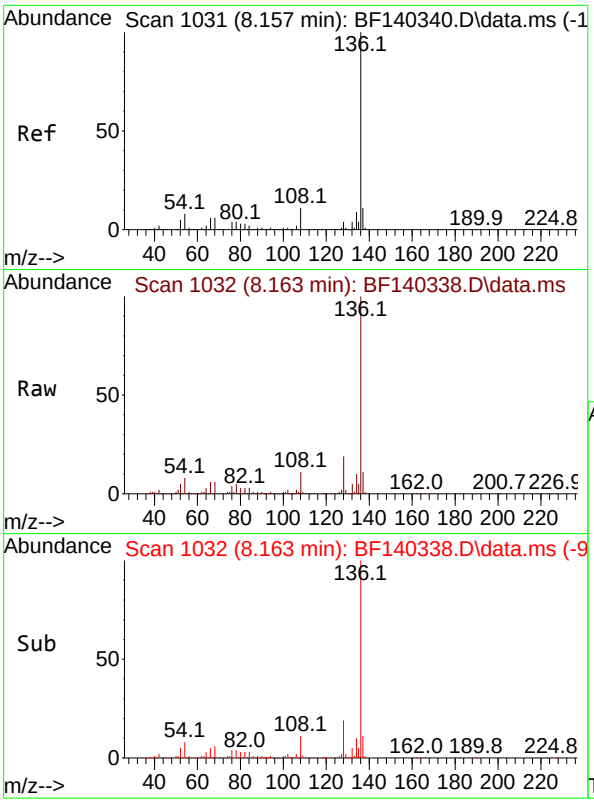


#20
3+4-Methylphenols
Concen: 55.518 ng
RT: 7.286 min Scan# 883
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:107 Resp: 608092

Ion	Ratio	Lower	Upper
107	100		
108	90.2	71.4	111.4
77	115.5	97.0	137.0
79	32.3	11.9	51.9



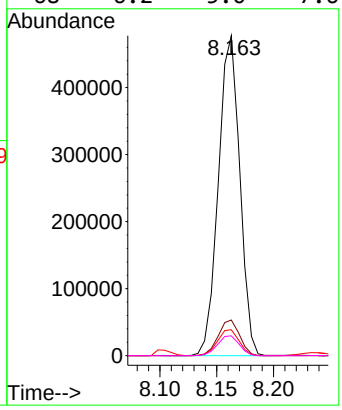


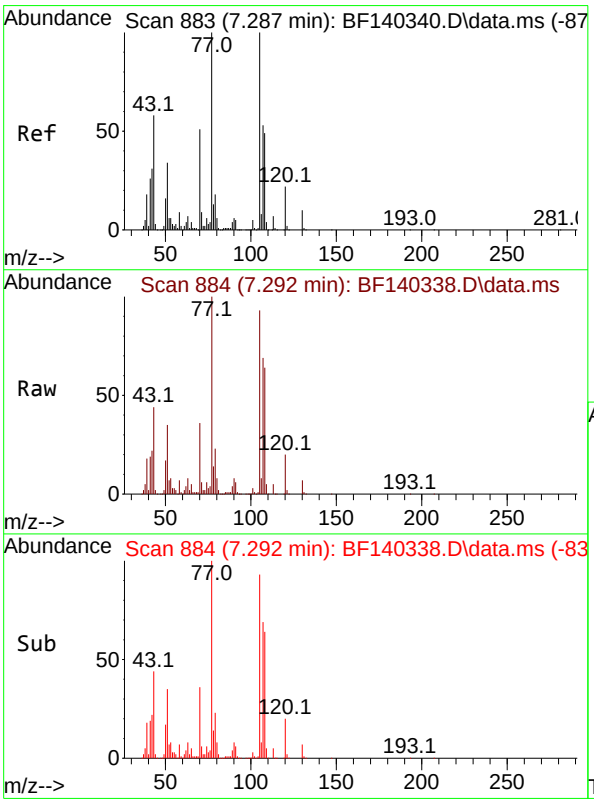
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 626974

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.7	13.1
54	8.1	6.5	9.7
68	6.2	5.0	7.6

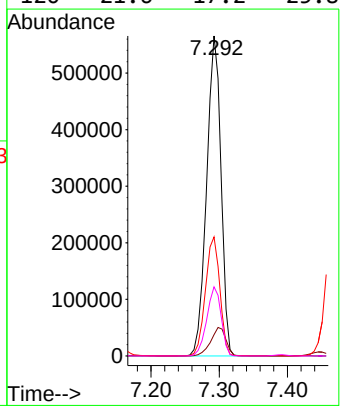


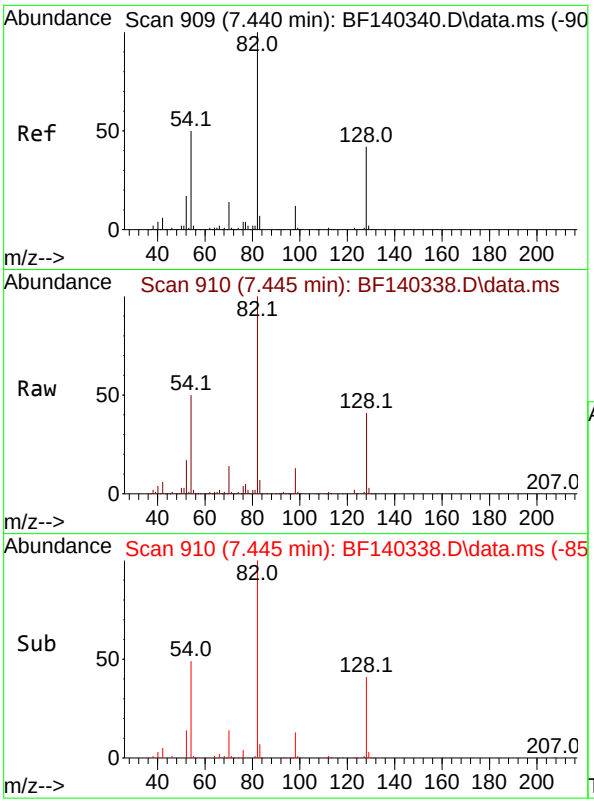


#22
Acetophenone
Concen: 56.891 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:105 Resp: 829586

Ion	Ratio	Lower	Upper
105	100		
71	6.7	6.9	10.3#
51	37.2	28.6	43.0
120	21.6	17.2	25.8



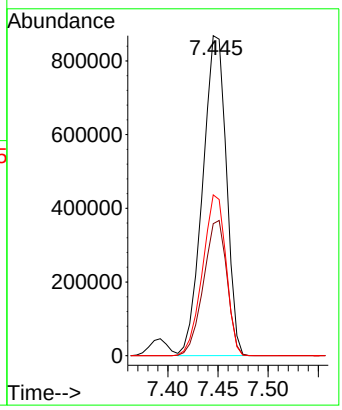


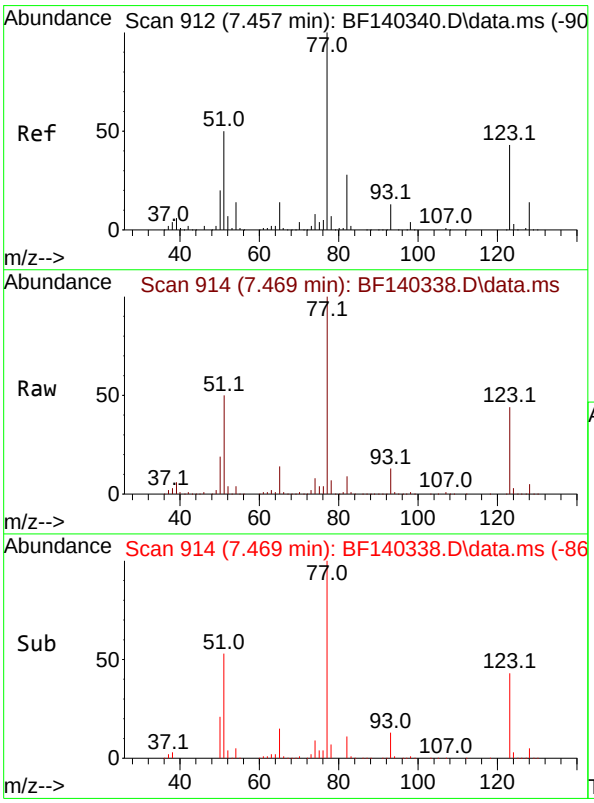
#23
Nitrobenzene-d5
Concen: 118.512 ng
RT: 7.445 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 1426102

Ion	Ratio	Lower	Upper
82	100		
128	41.3	33.3	49.9
54	50.3	39.8	59.8

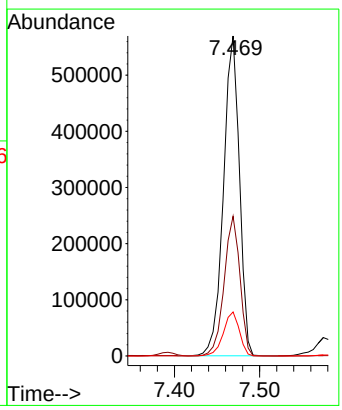


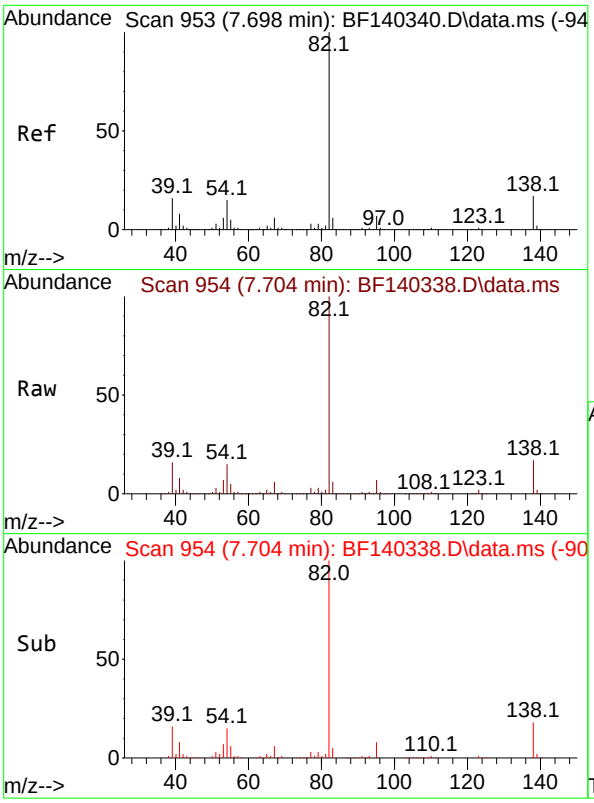


#24
Nitrobenzene
Concen: 59.113 ng
RT: 7.469 min Scan# 914
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion: 77 Resp: 740612

Ion	Ratio	Lower	Upper
77	100		
123	43.6	35.4	53.0
65	13.8	11.1	16.7



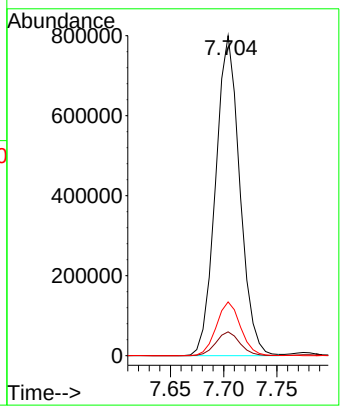


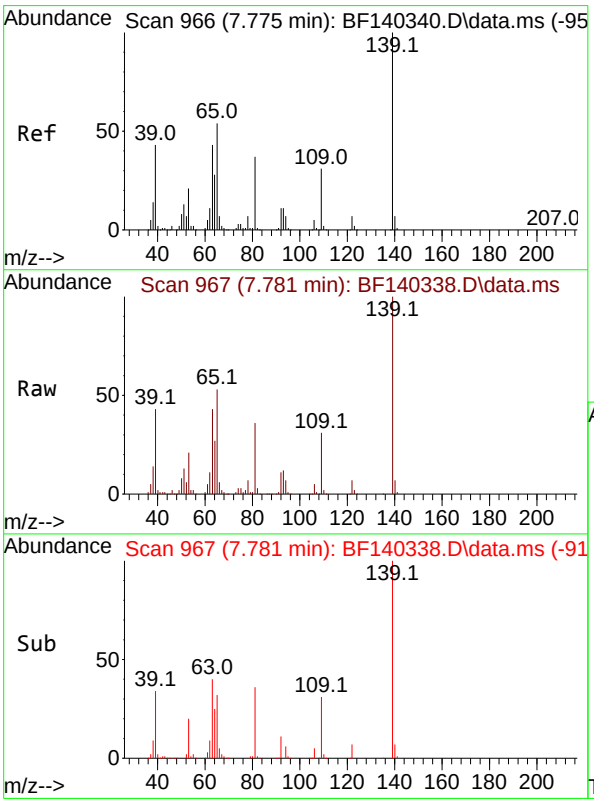
#25
Isophorone
Concen: 59.147 ng
RT: 7.704 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 1261423

Ion	Ratio	Lower	Upper
82	100		
95	7.5	5.9	8.9
138	16.8	13.4	20.2

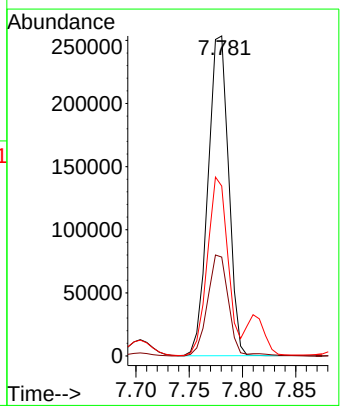


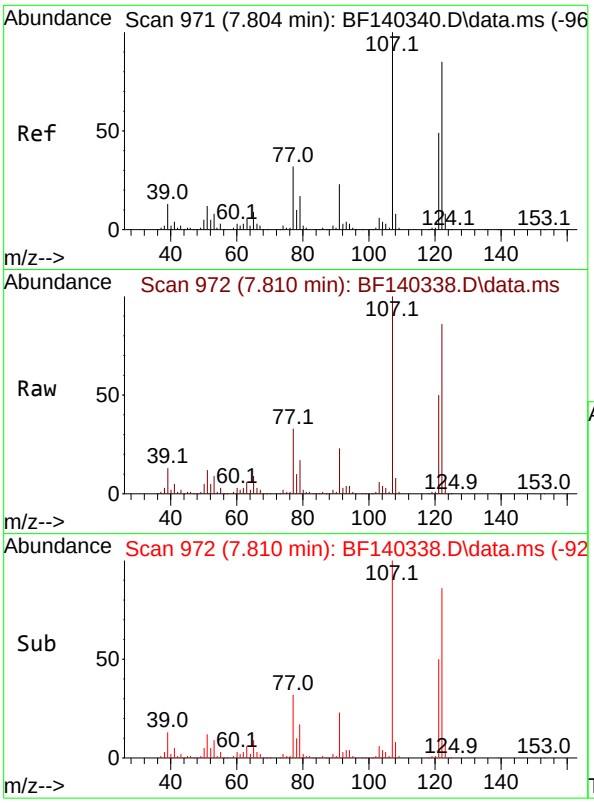


#26
2-Nitrophenol
Concen: 61.146 ng
RT: 7.781 min Scan# 967
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:139 Resp: 339960

Ion	Ratio	Lower	Upper
139	100		
109	30.9	24.4	36.6
65	53.1	42.8	64.2



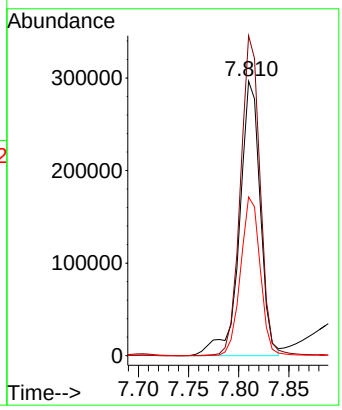


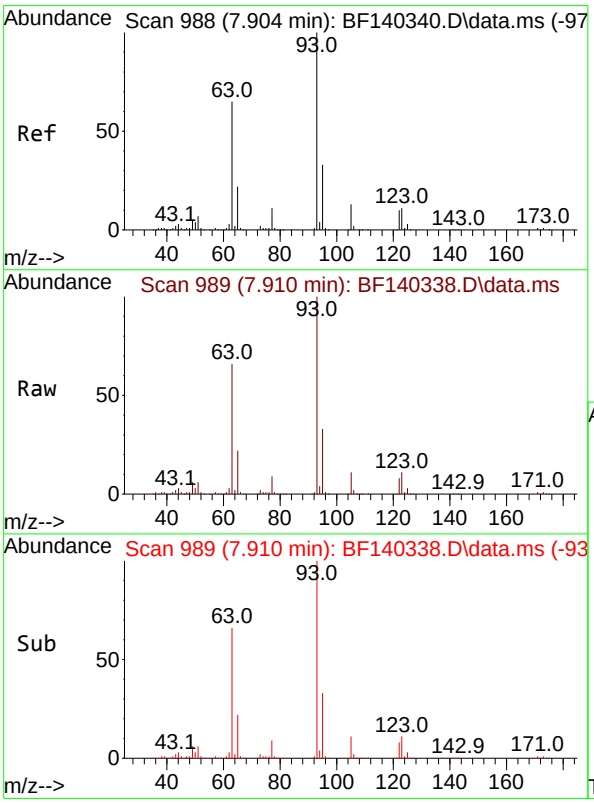
#27
2,4-Dimethylphenol
Concen: 59.920 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 426510

Ion	Ratio	Lower	Upper
122	100		
107	116.5	91.3	136.9
121	57.8	45.5	68.3

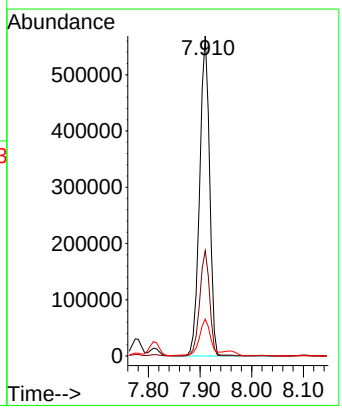


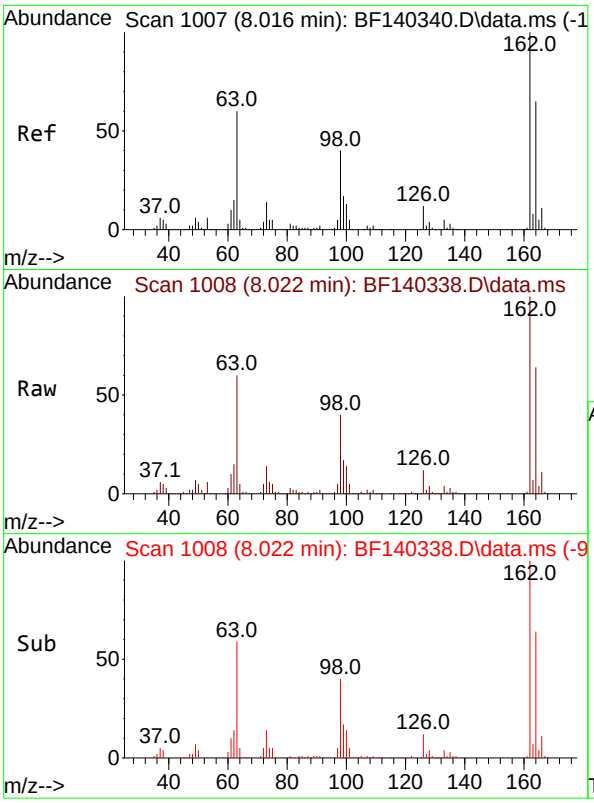


#28
bis(2-Chloroethoxy)methane
Concen: 58.119 ng
RT: 7.910 min Scan# 989
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion: 93 Resp: 760029

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.9	38.9
123	11.5	9.2	13.8



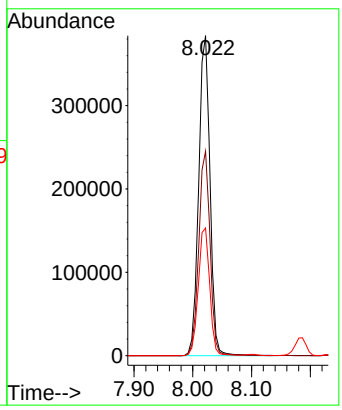


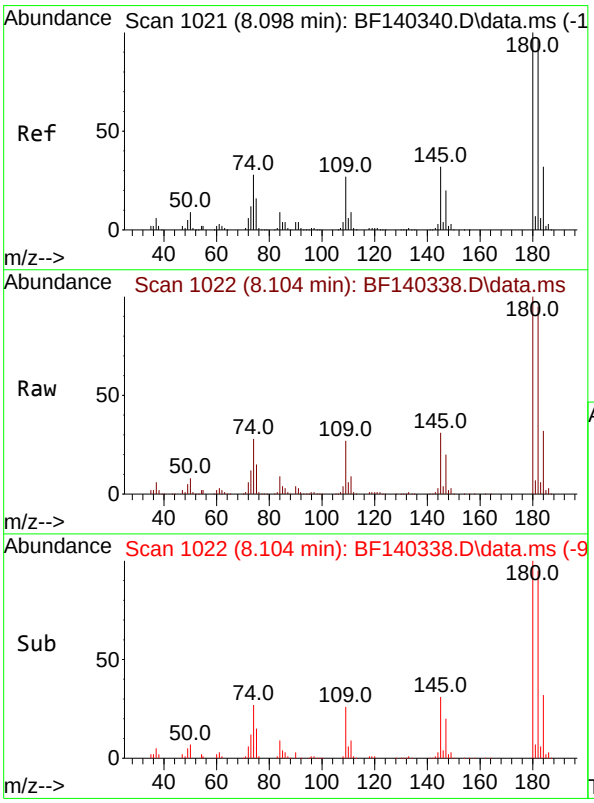
#29
2,4-Dichlorophenol
Concen: 58.170 ng
RT: 8.022 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 511715

Ion	Ratio	Lower	Upper
162	100		
164	63.9	45.4	85.4
98	39.9	19.9	59.9

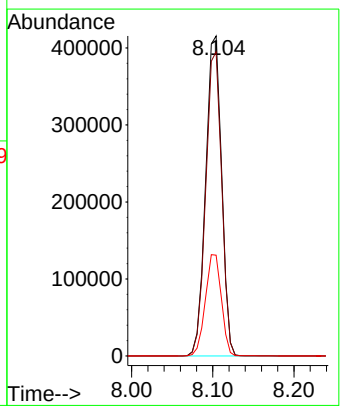


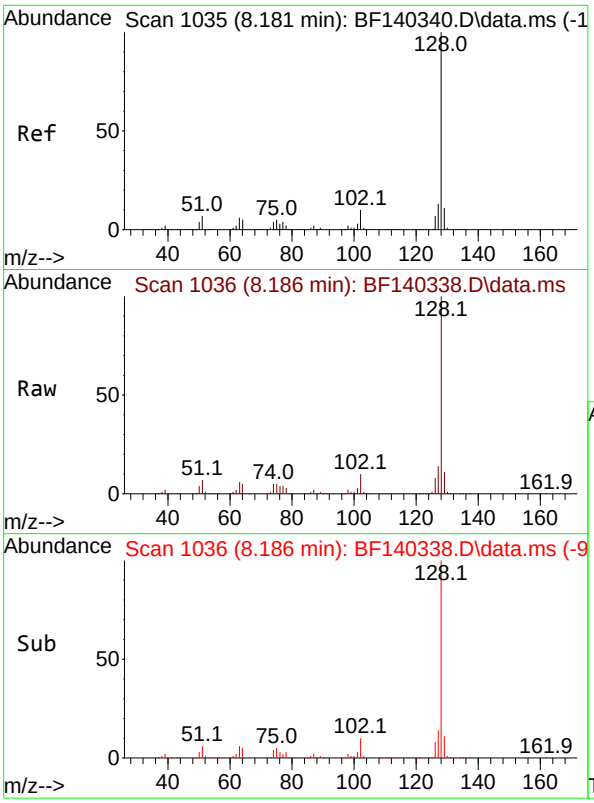


#30
1,2,4-Trichlorobenzene
Concen: 57.824 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:180 Resp: 566322

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.5	114.7
145	31.5	25.3	37.9



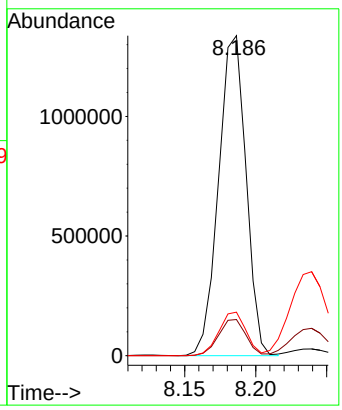


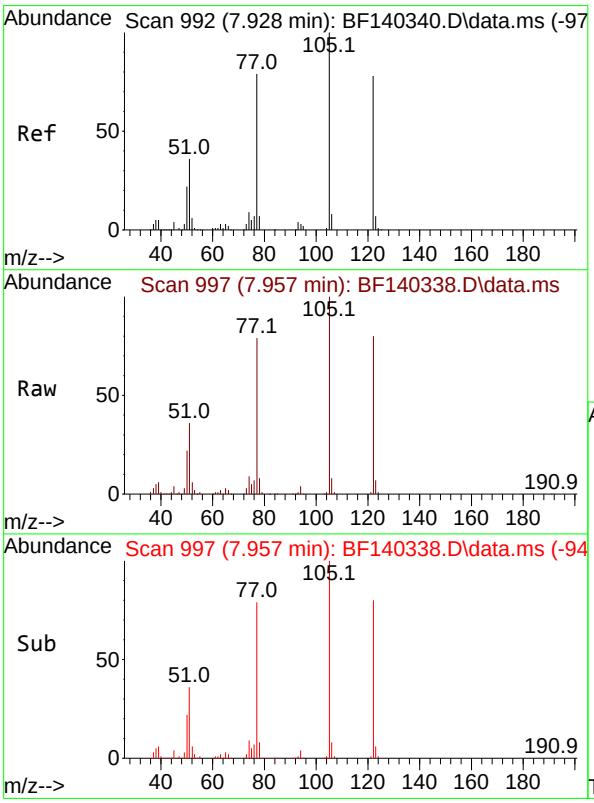
#31
Naphthalene
Concen: 56.491 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 1796725

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.6	10.6	15.8

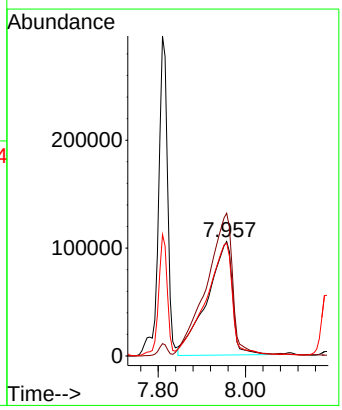


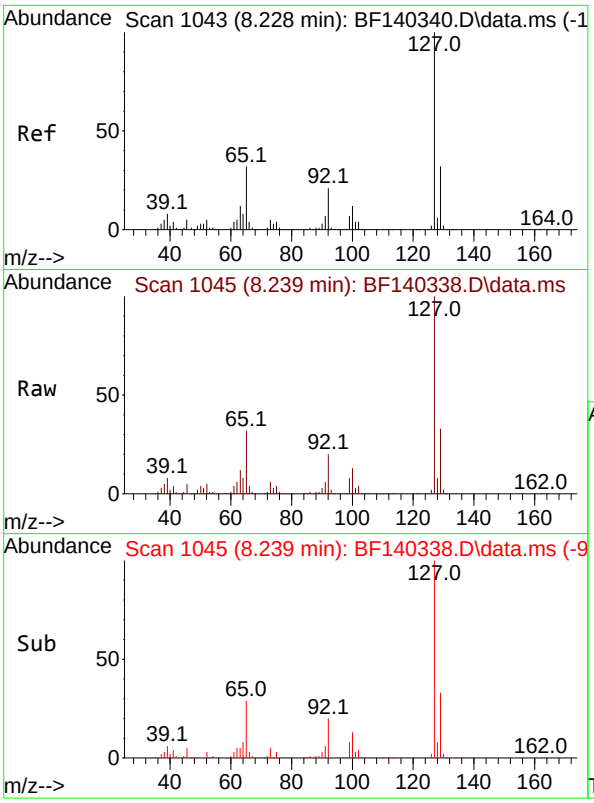


#32
Benzoic acid
Concen: 68.049 ng
RT: 7.957 min Scan# 997
Delta R.T. 0.029 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:122 Resp: 425502

Ion	Ratio	Lower	Upper
122	100		
105	124.7	100.9	140.9
77	98.7	76.0	116.0



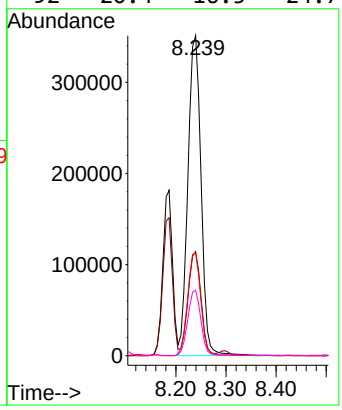


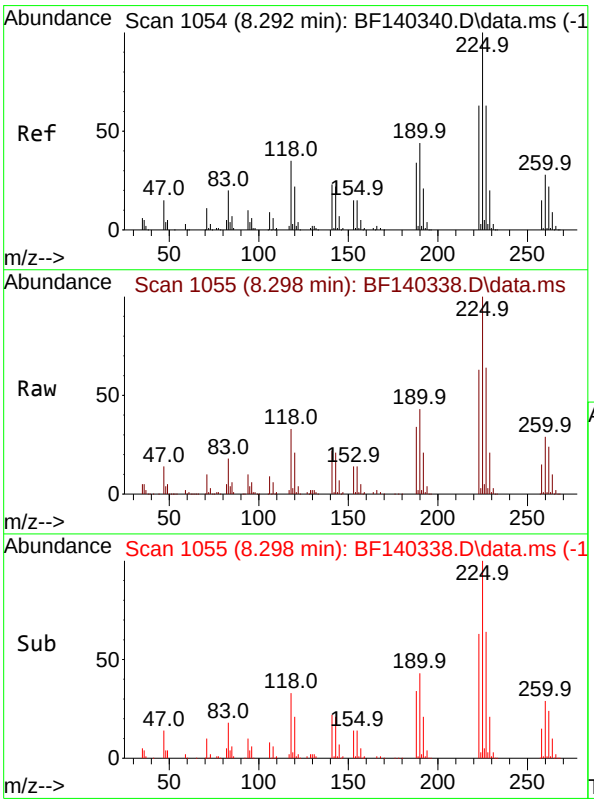
#33
4-Chloroaniline
Concen: 57.793 ng
RT: 8.239 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 639243

Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.2	39.4
65	32.0	25.8	38.6
92	20.4	16.5	24.7

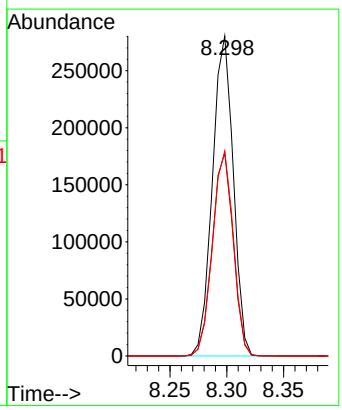


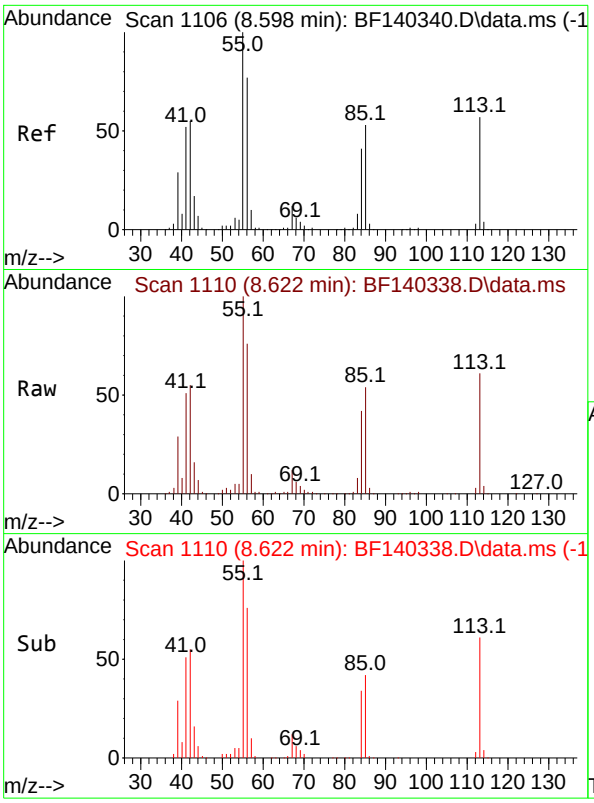


#34
Hexachlorobutadiene
Concen: 57.398 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:225 Resp: 358172

Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.1	75.1
227	64.1	51.3	76.9



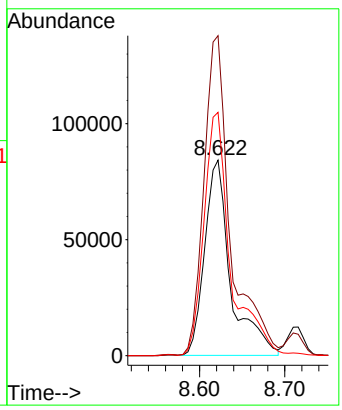


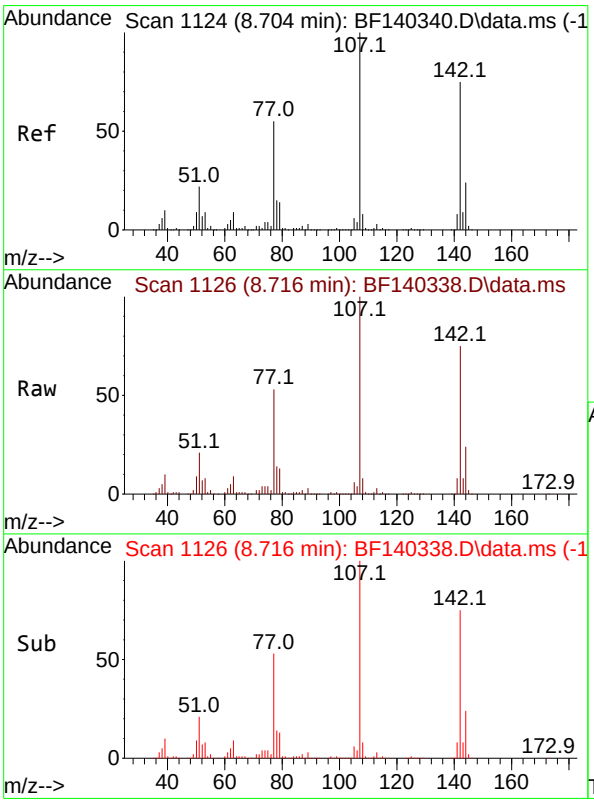
#35
Caprolactam
Concen: 60.447 ng
RT: 8.622 min Scan# 11
Delta R.T. 0.023 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 178777

Ion	Ratio	Lower	Upper
113	100		
55	163.7	150.0	190.0
56	124.5	111.1	151.1

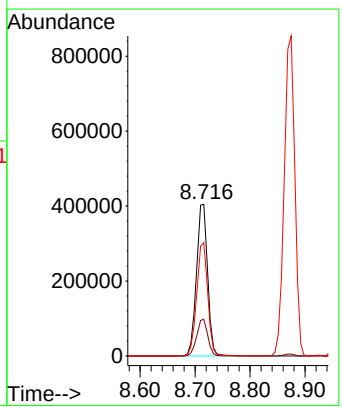


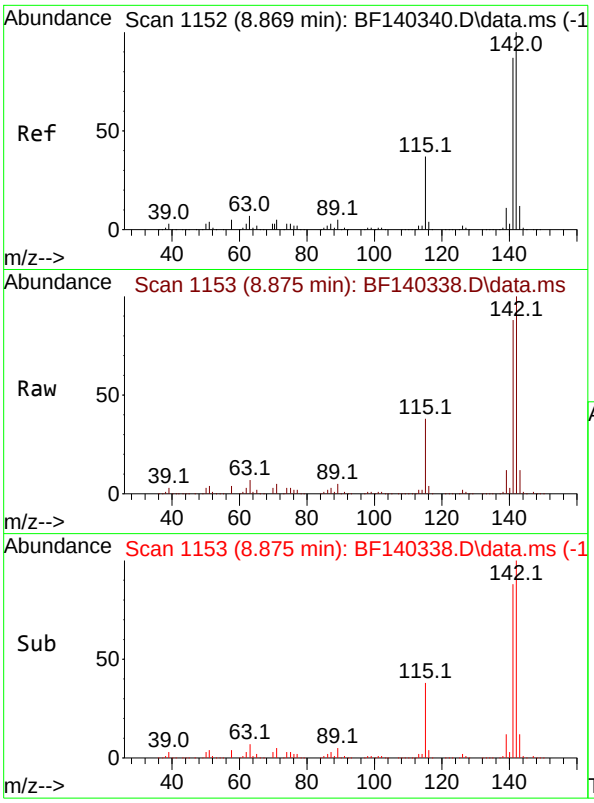


#36
4-Chloro-3-methylphenol
Concen: 58.614 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:107 Resp: 571401

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.3	28.9
142	74.6	59.4	89.0



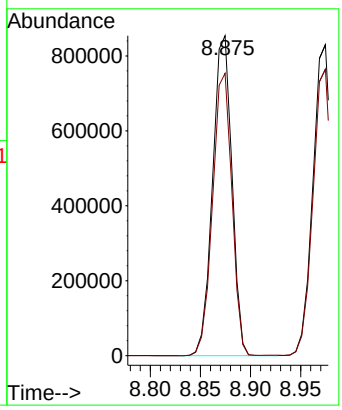


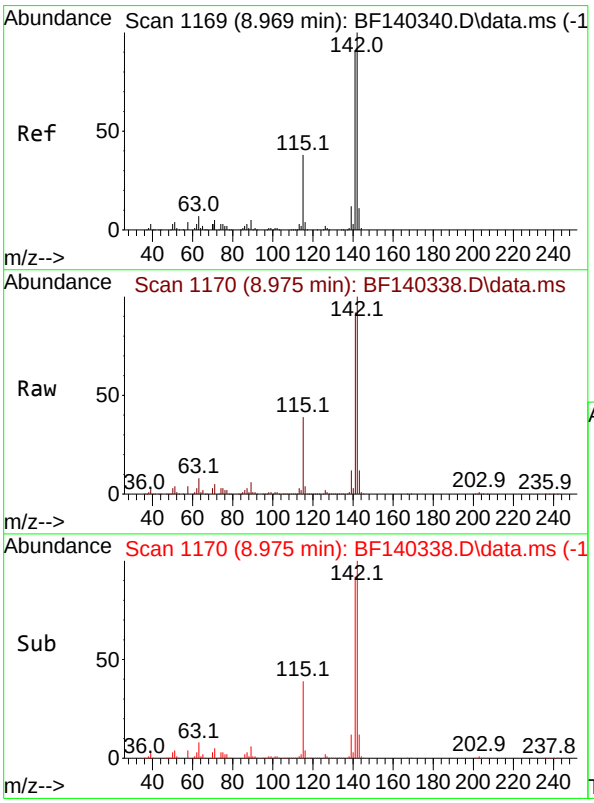
#37
2-Methylnaphthalene
Concen: 55.995 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 1141963

Ion	Ratio	Lower	Upper
142	100		
141	88.2	70.4	105.6

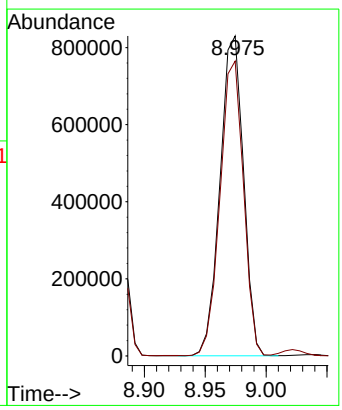


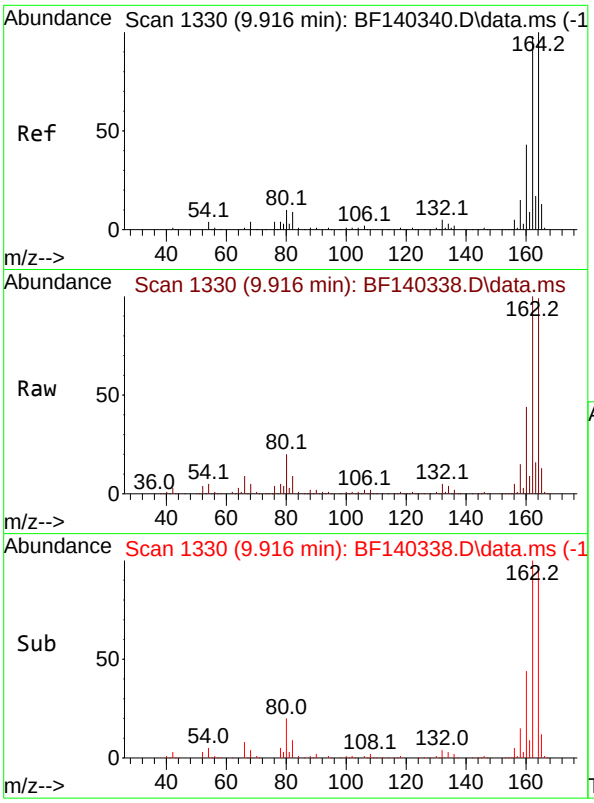


#38
1-Methylnaphthalene
Concen: 55.742 ng
RT: 8.975 min Scan# 1170
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:142 Resp: 1113216

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.6	110.4



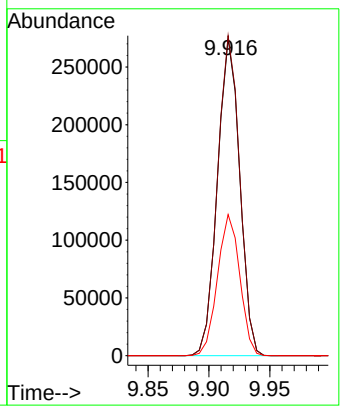


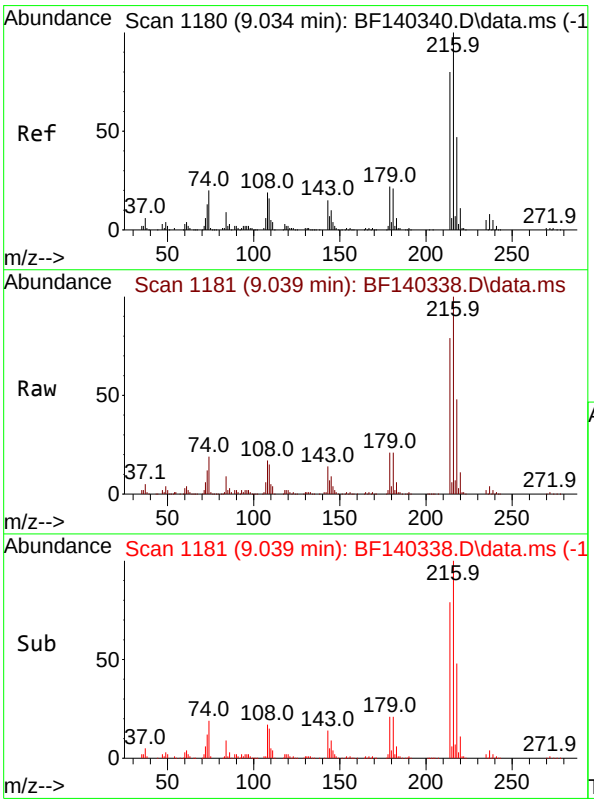
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 349852

Ion	Ratio	Lower	Upper
164	100		
162	101.0	79.8	119.8
160	44.5	35.4	53.0

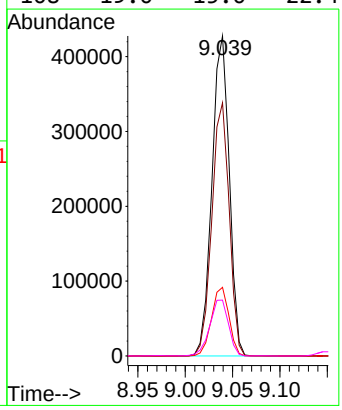


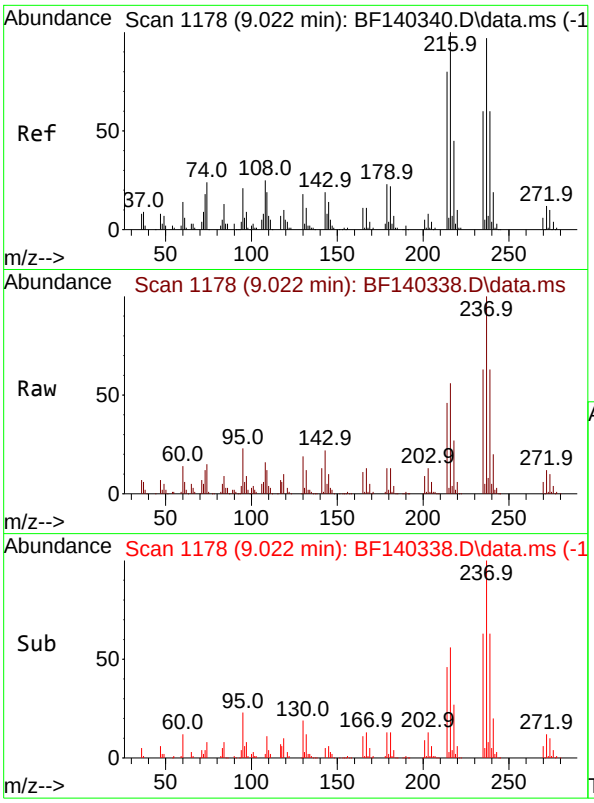


#40
1,2,4,5-Tetrachlorobenzene
Concen: 56.085 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:216 Resp: 542595

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.2	94.8
179	21.6	17.2	25.8
108	19.0	15.0	22.4



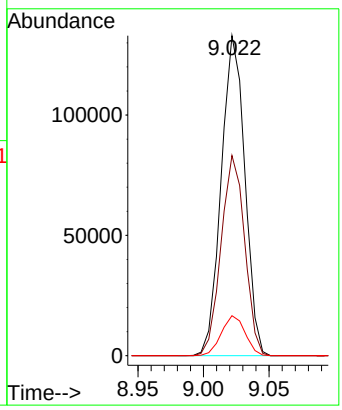


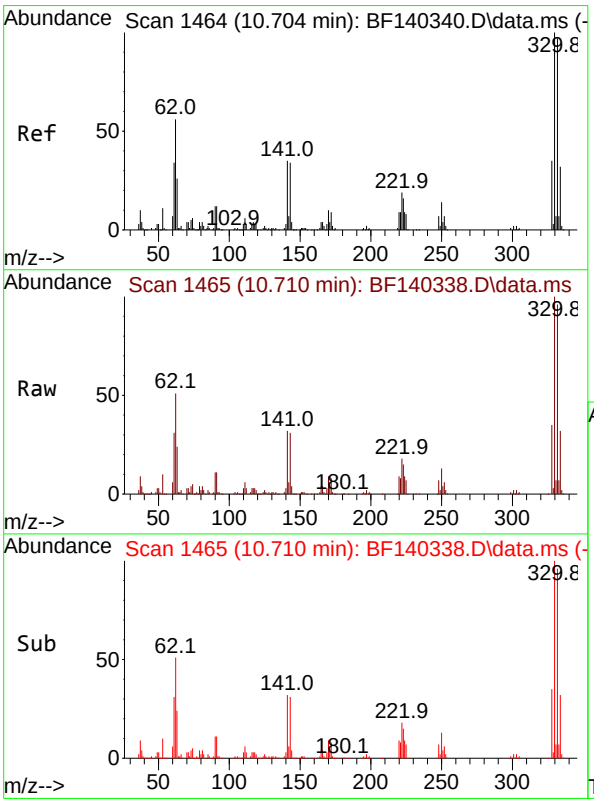
#41
Hexachlorocyclopentadiene
Concen: 67.012 ng
RT: 9.022 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 166455

Ion	Ratio	Lower	Upper
237	100		
235	62.5	42.8	82.8
272	12.5	0.0	33.1

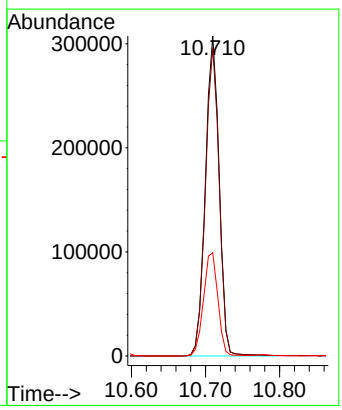


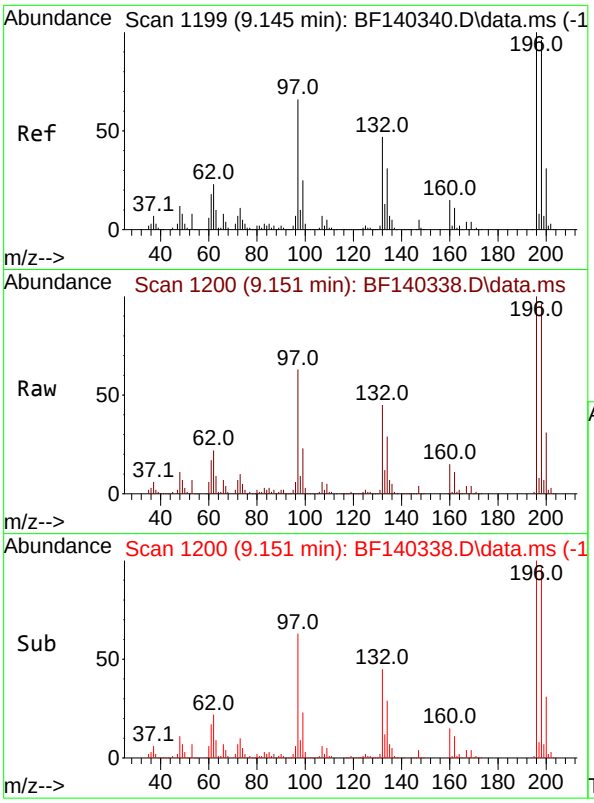


#42
2,4,6-Tribromophenol
Concen: 114.327 ng
RT: 10.710 min Scan# 1465
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:330 Resp: 397743

Ion	Ratio	Lower	Upper
330	100		
332	96.6	75.9	113.9
141	33.7	26.9	40.3



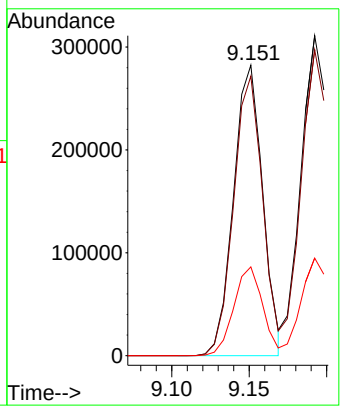


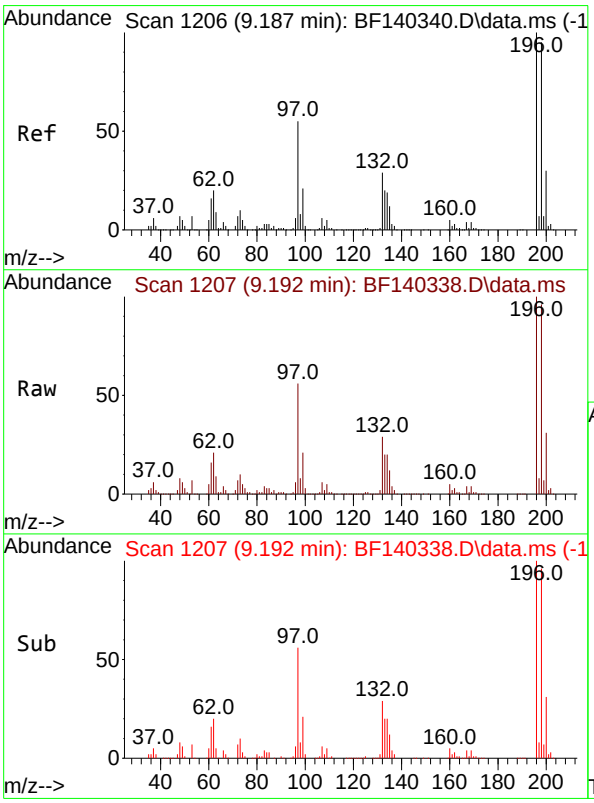
#43
2,4,6-Trichlorophenol
Concen: 58.123 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 369027

Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.0	115.4
200	30.6	24.2	36.4

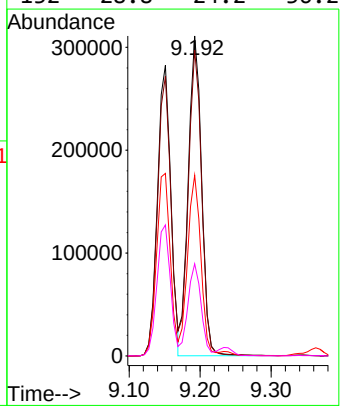


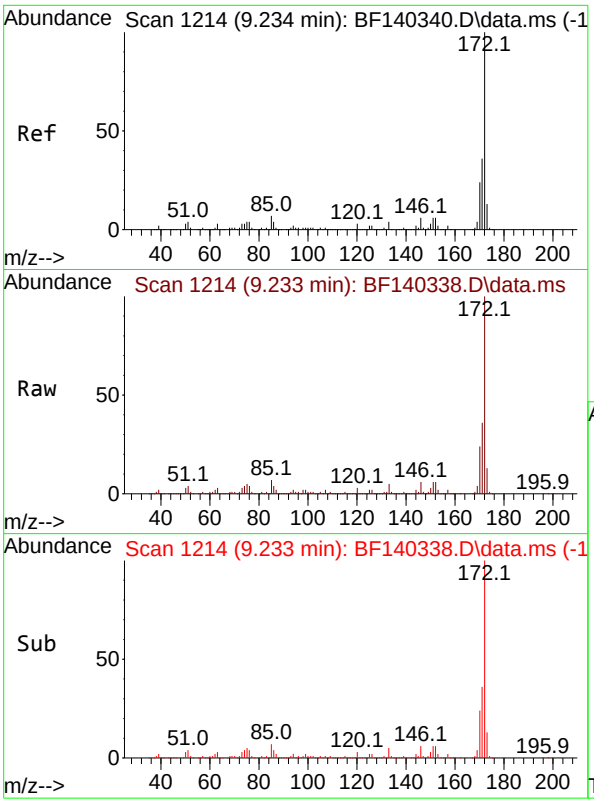


#44
2,4,5-Trichlorophenol
Concen: 58.897 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:196 Resp: 408838

Ion	Ratio	Lower	Upper
196	100		
198	95.6	77.6	116.4
97	56.4	45.4	68.2
132	28.8	24.2	36.2



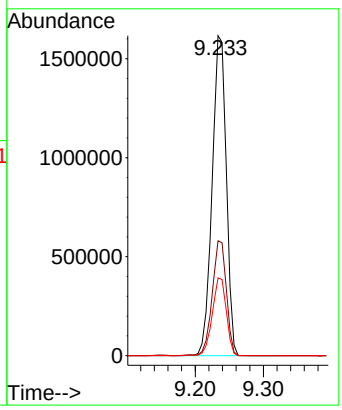


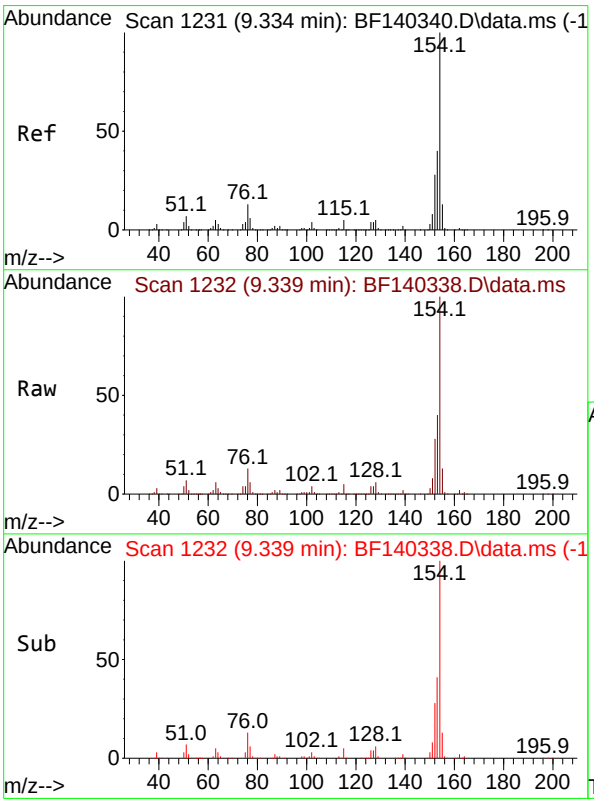
#45
2-Fluorobiphenyl
Concen: 107.065 ng
RT: 9.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 2330064

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.5	42.7
170	24.3	19.1	28.7

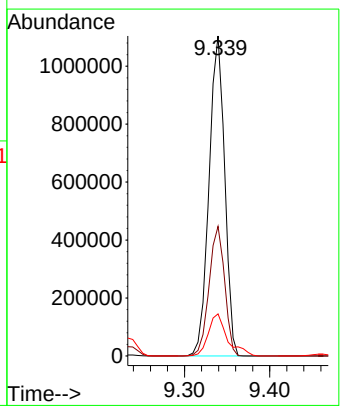


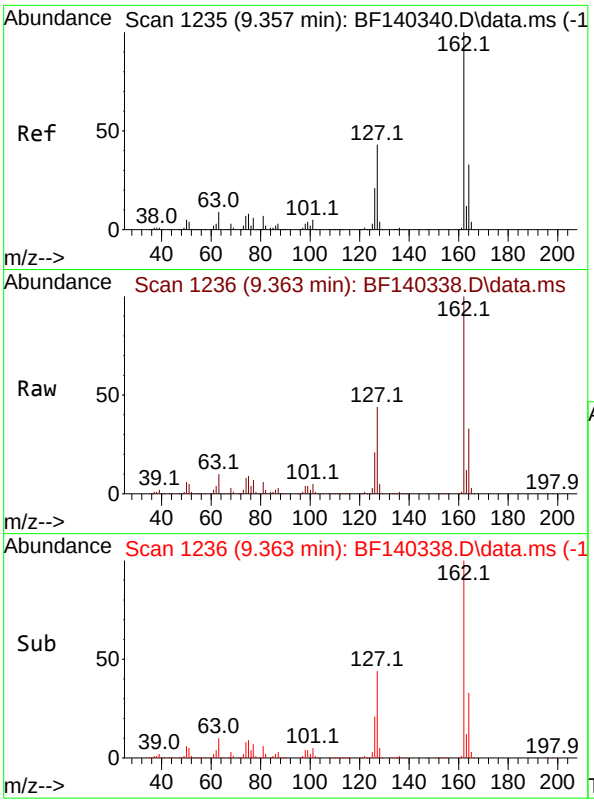


#46
1,1'-Biphenyl
Concen: 55.384 ng
RT: 9.339 min Scan# 1232
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:154 Resp: 1409617

Ion	Ratio	Lower	Upper
154	100		
153	40.5	20.4	60.4
76	13.2	0.0	32.9



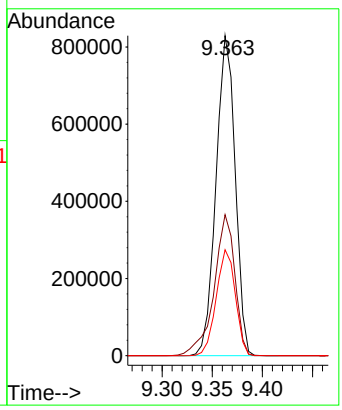


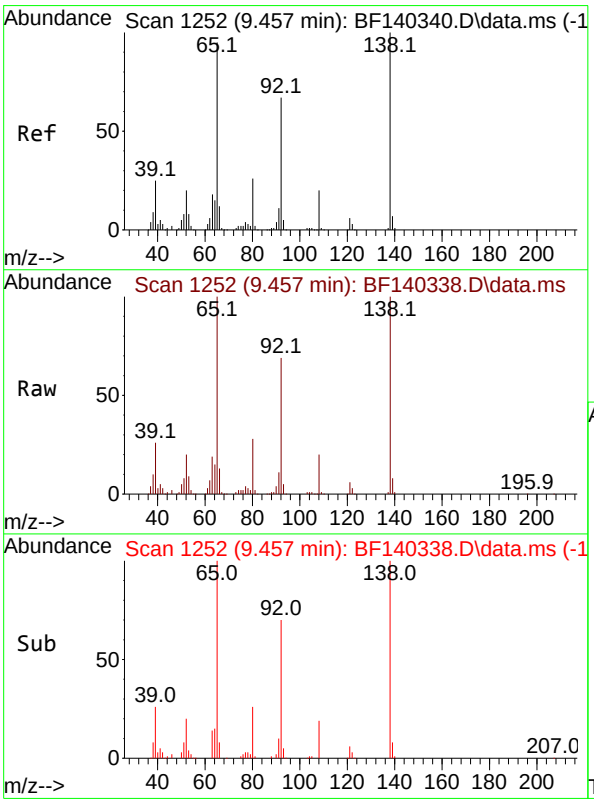
#47
2-Chloronaphthalene
Concen: 56.777 ng
RT: 9.363 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 1100798

Ion	Ratio	Lower	Upper
162	100		
127	44.1	34.0	51.0
164	33.1	26.5	39.7

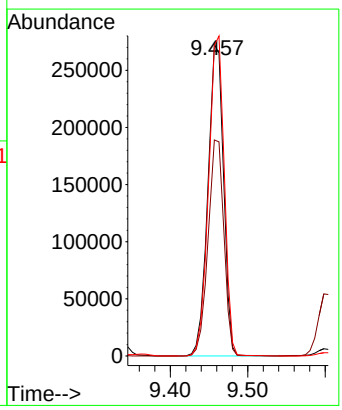


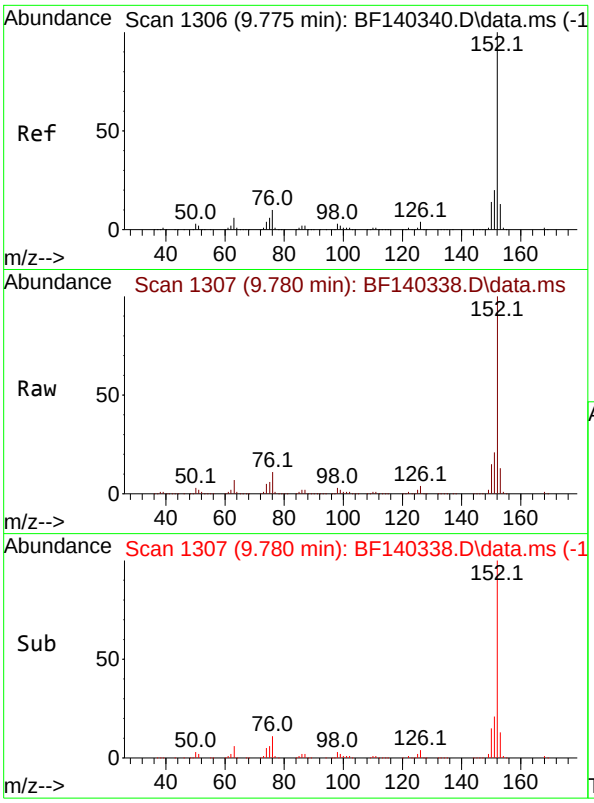


#48
2-Nitroaniline
Concen: 59.769 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion: 65 Resp: 384307

Ion	Ratio	Lower	Upper
65	100		
92	69.3	56.4	84.6
138	99.6	84.8	127.2



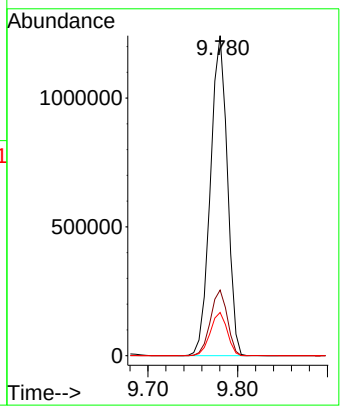


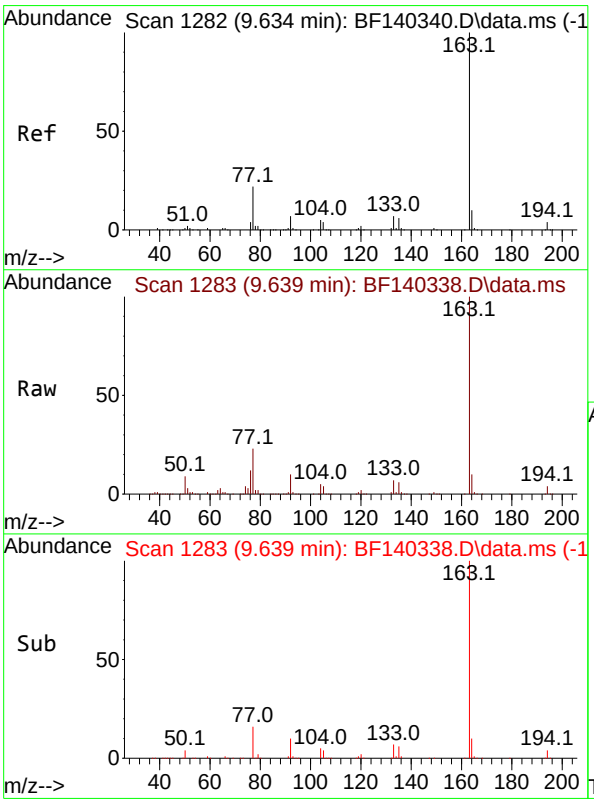
#49
Acenaphthylene
Concen: 55.531 ng
RT: 9.780 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 1628948

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.1	24.1
153	13.5	10.7	16.1

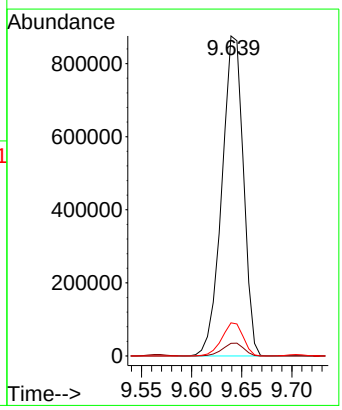


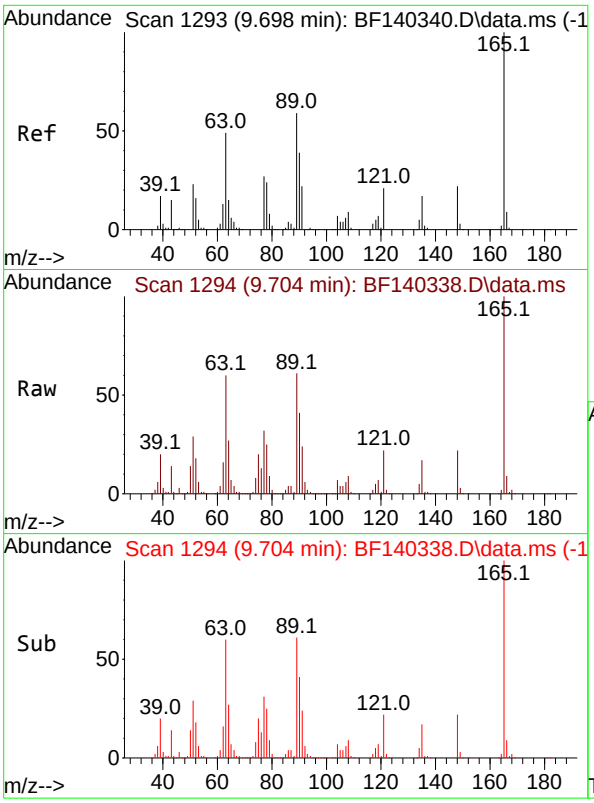


#50
Dimethylphthalate
Concen: 57.269 ng
RT: 9.639 min Scan# 1283
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:163 Resp: 1305952

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.3	8.2	12.4



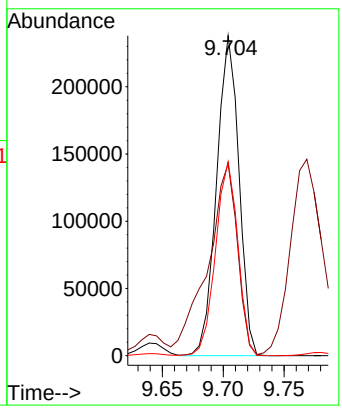


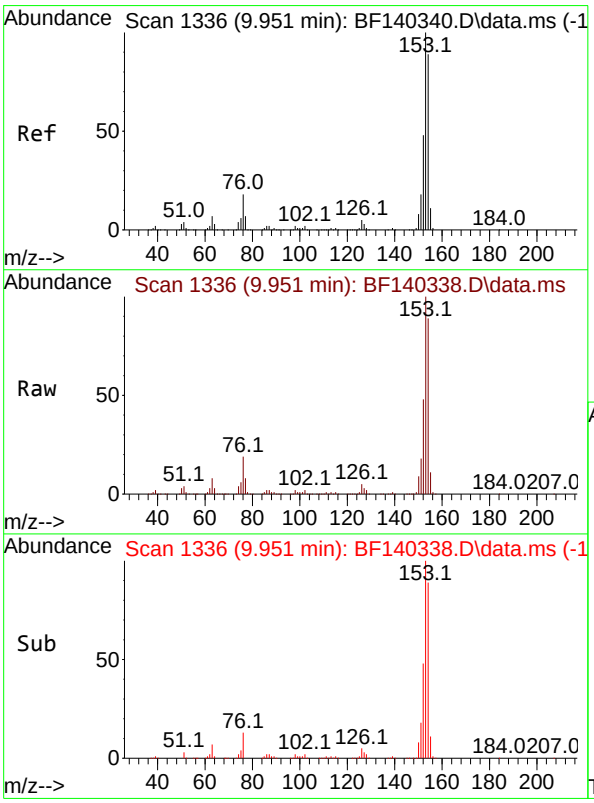
#51
2,6-Dinitrotoluene
Concen: 58.434 ng
RT: 9.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 303778

Ion	Ratio	Lower	Upper
165	100		
63	60.0	47.6	71.4
89	60.6	48.1	72.1

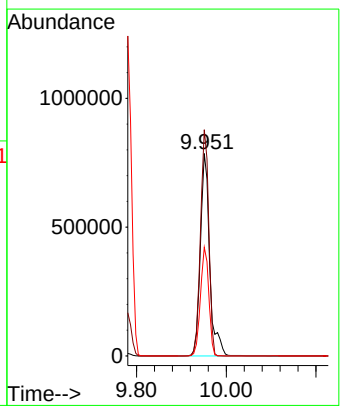


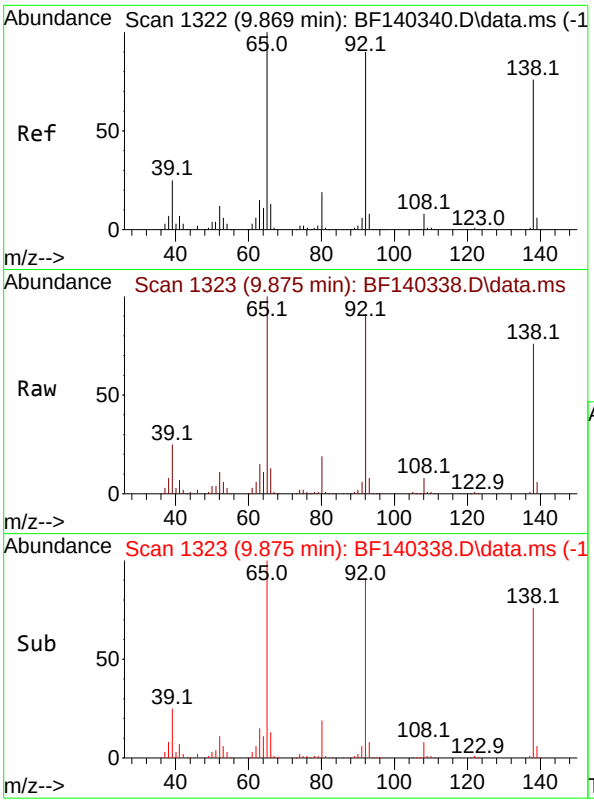


#52
Acenaphthene
Concen: 57.171 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:154 Resp: 1132725

Ion	Ratio	Lower	Upper
154	100		
153	111.8	89.8	134.8
152	53.6	42.6	64.0



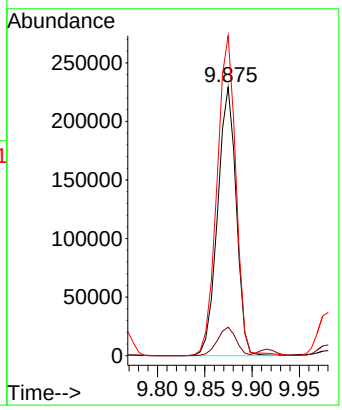


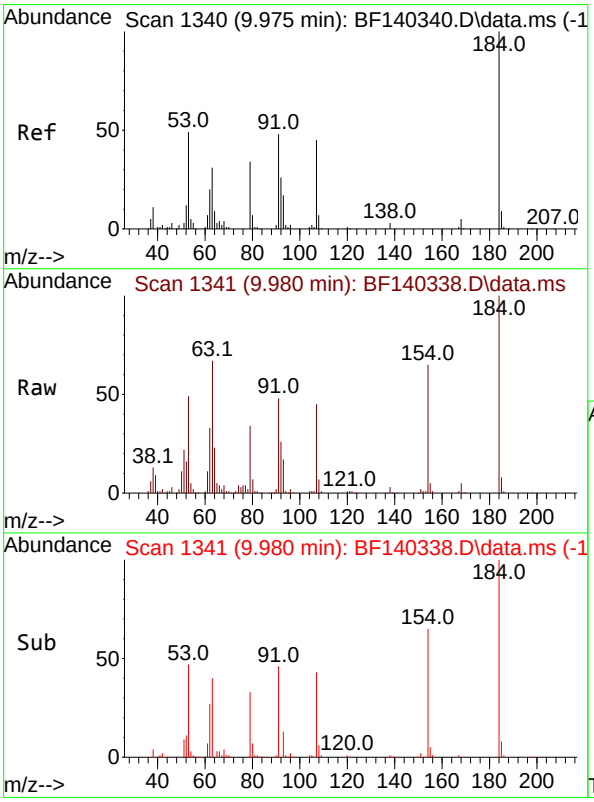
#53
3-Nitroaniline
Concen: 57.370 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 313217

Ion	Ratio	Lower	Upper
138	100		
108	10.6	8.4	12.6
92	119.2	95.5	143.3

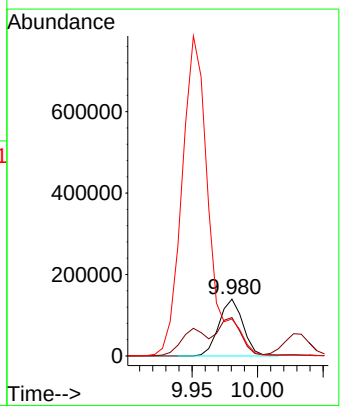


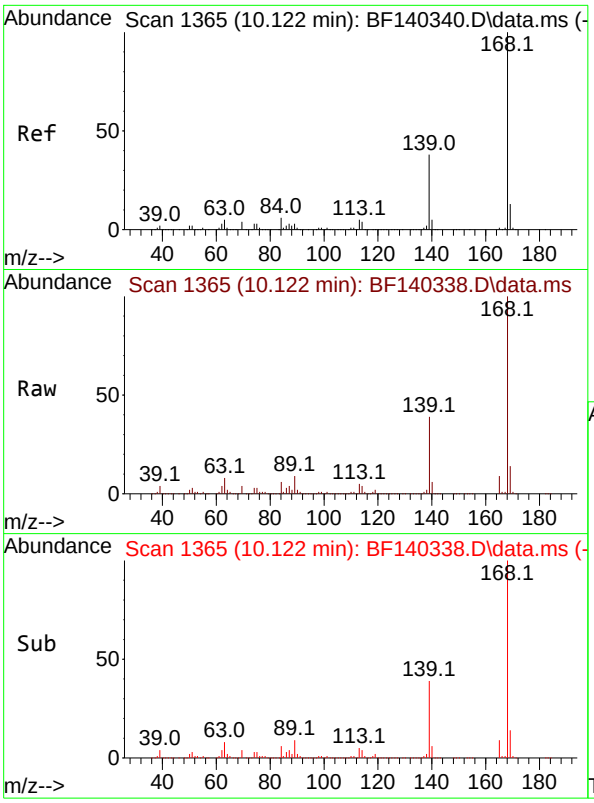


#54
2,4-Dinitrophenol
Concen: 66.606 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.005 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:184 Resp: 178562

Ion	Ratio	Lower	Upper
184	100		
63	67.5	53.5	80.3
154	65.0	51.3	76.9



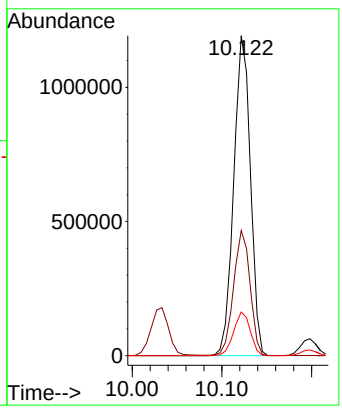


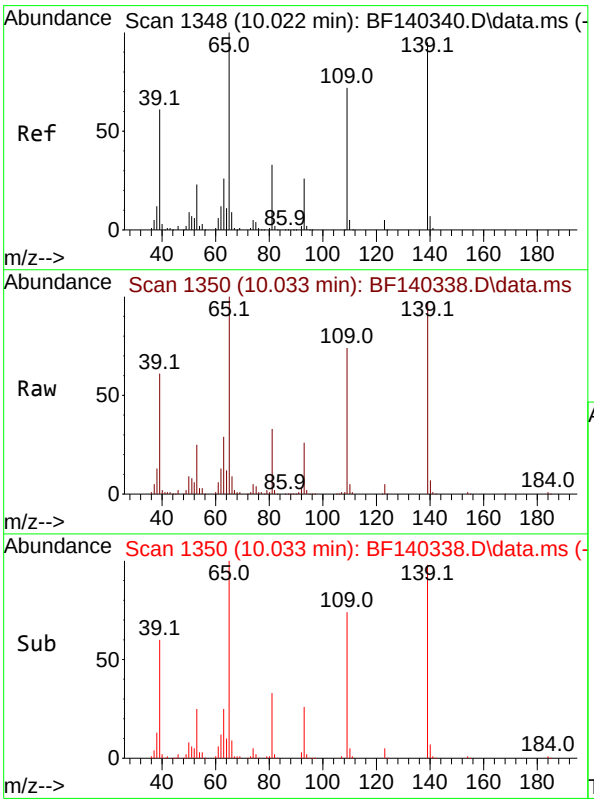
#55
Dibenzofuran
Concen: 54.845 ng
RT: 10.122 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 1538256

Ion	Ratio	Lower	Upper
168	100		
139	39.1	30.8	46.2
169	13.6	10.8	16.2

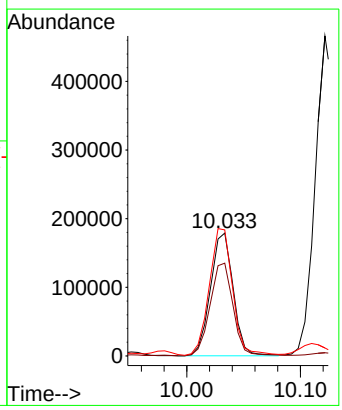


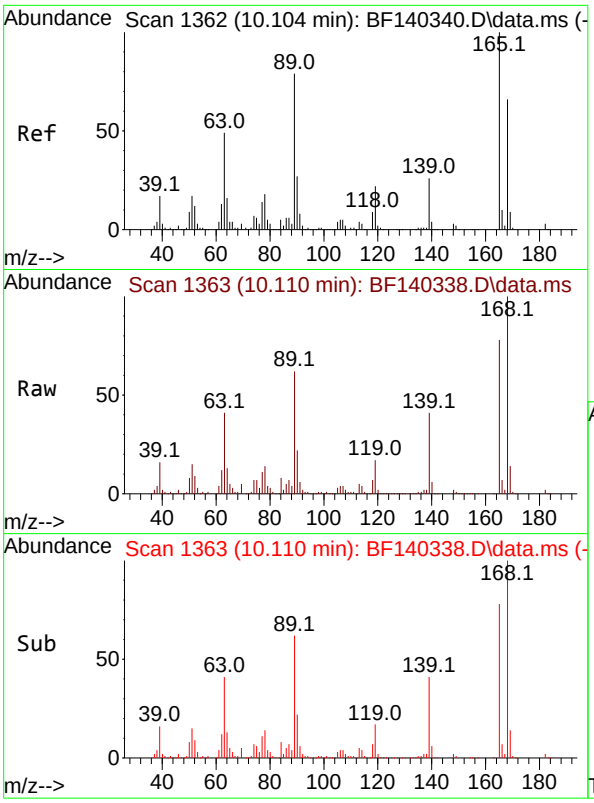


#56
4-Nitrophenol
Concen: 62.577 ng
RT: 10.033 min Scan# 1350
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:139 Resp: 249200

Ion	Ratio	Lower	Upper
139	100		
109	75.5	54.5	94.5
65	102.7	84.4	124.4



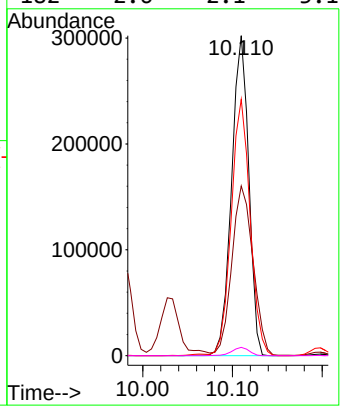


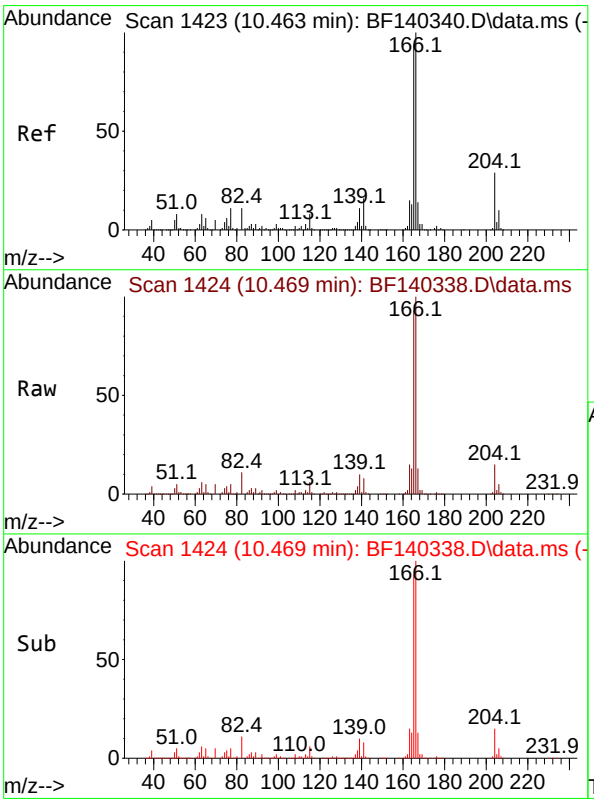
#57
2,4-Dinitrotoluene
Concen: 58.647 ng
RT: 10.110 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 401261

Ion	Ratio	Lower	Upper
165	100		
63	53.0	39.4	59.0
89	80.1	62.4	93.6
182	2.6	2.1	3.1

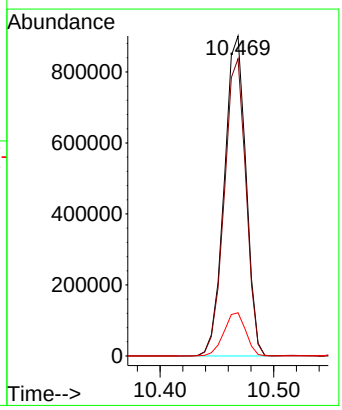


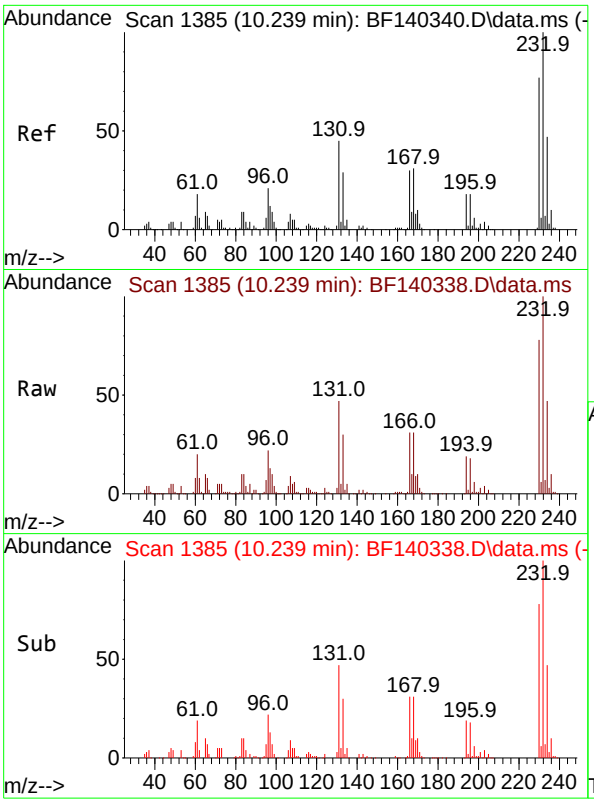


#58
Fluorene
Concen: 53.876 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:166 Resp: 1193733

Ion	Ratio	Lower	Upper
166	100		
165	92.9	73.9	110.9
167	13.5	10.9	16.3



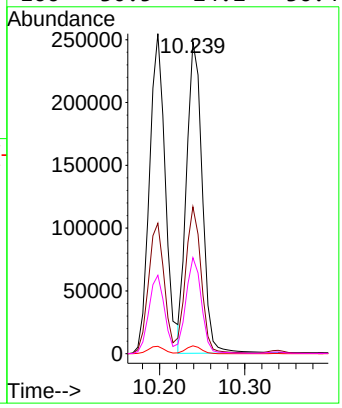


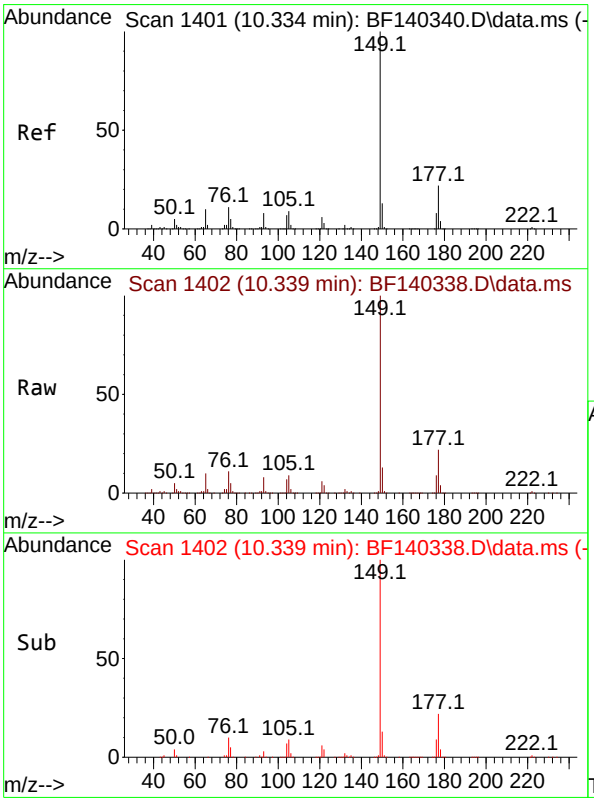
#59
2,3,4,6-Tetrachlorophenol
Concen: 57.919 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 317173

Ion	Ratio	Lower	Upper
232	100		
131	47.4	36.8	55.2
130	2.5	1.9	2.9
166	30.5	24.2	36.4

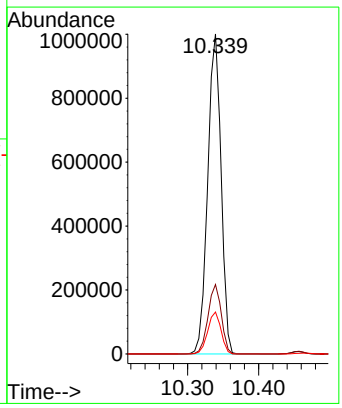


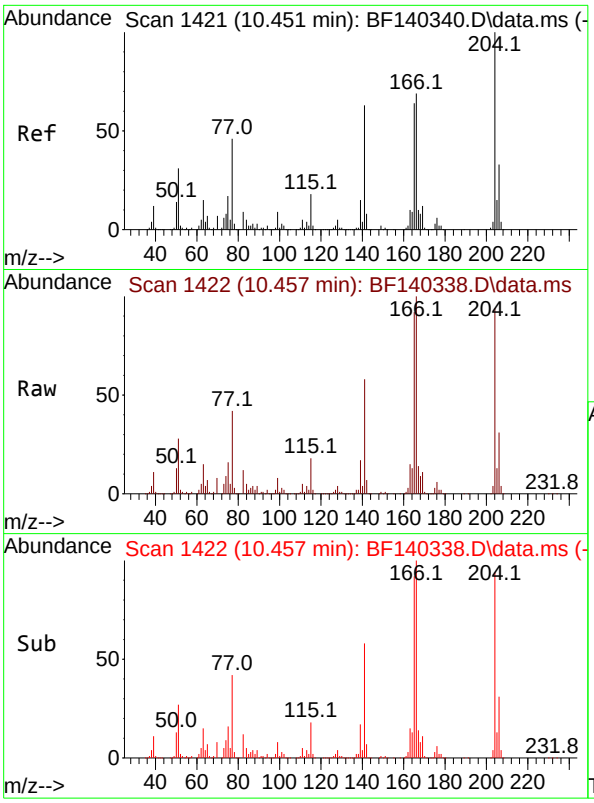


#60
Diethylphthalate
Concen: 56.104 ng
RT: 10.339 min Scan# 1402
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:149 Resp: 1308229

Ion	Ratio	Lower	Upper
149	100		
177	21.7	17.5	26.3
150	13.1	10.1	15.1



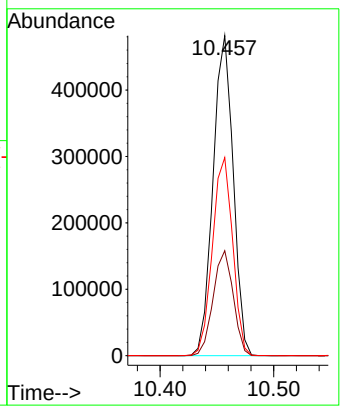


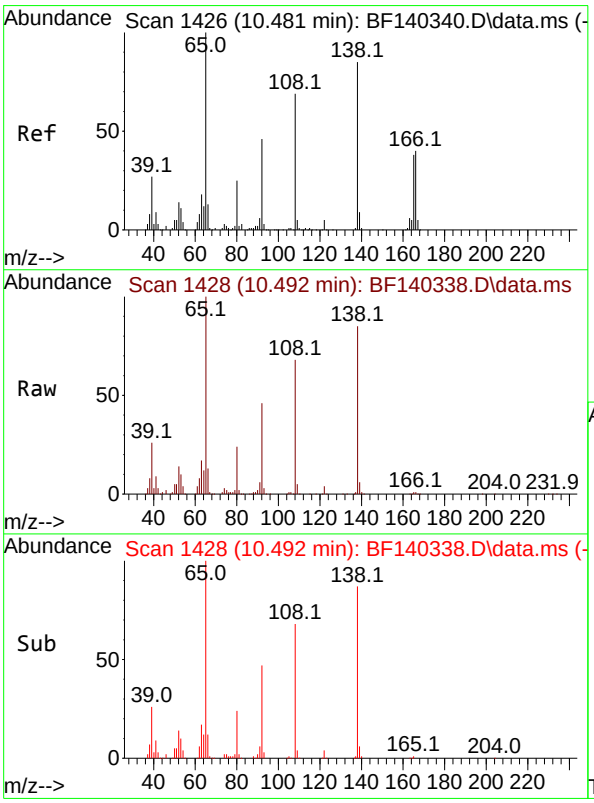
#61
4-Chlorophenyl-phenylether
Concen: 54.376 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 594806

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.0	39.0
141	61.9	49.8	74.8

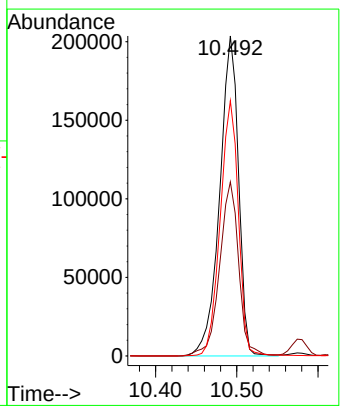


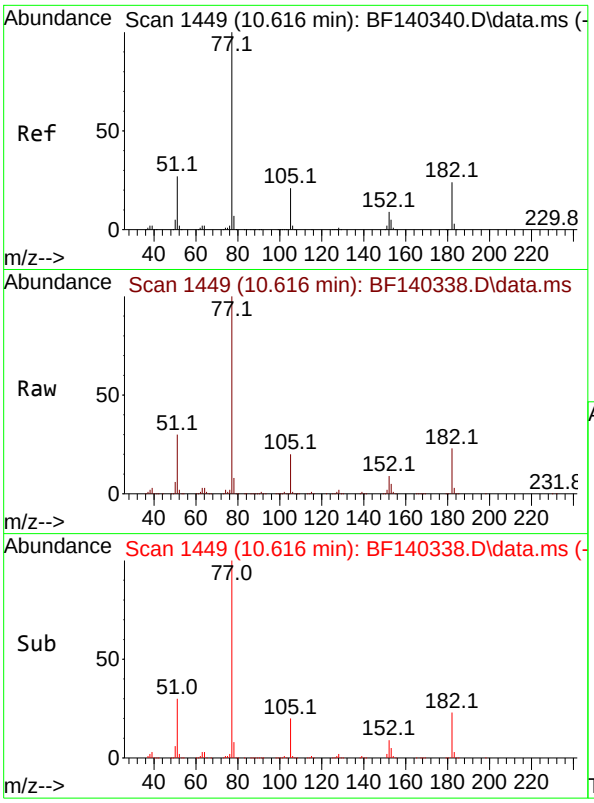


#62
4-Nitroaniline
Concen: 58.909 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:138 Resp: 328847

Ion	Ratio	Lower	Upper
138	100		
92	54.4	33.8	73.8
108	79.8	59.9	99.9



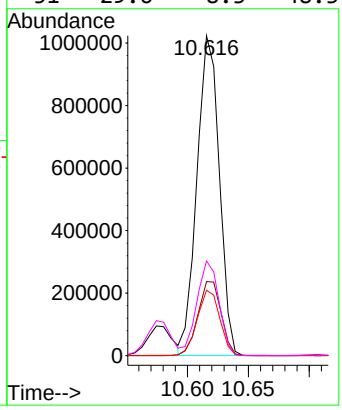


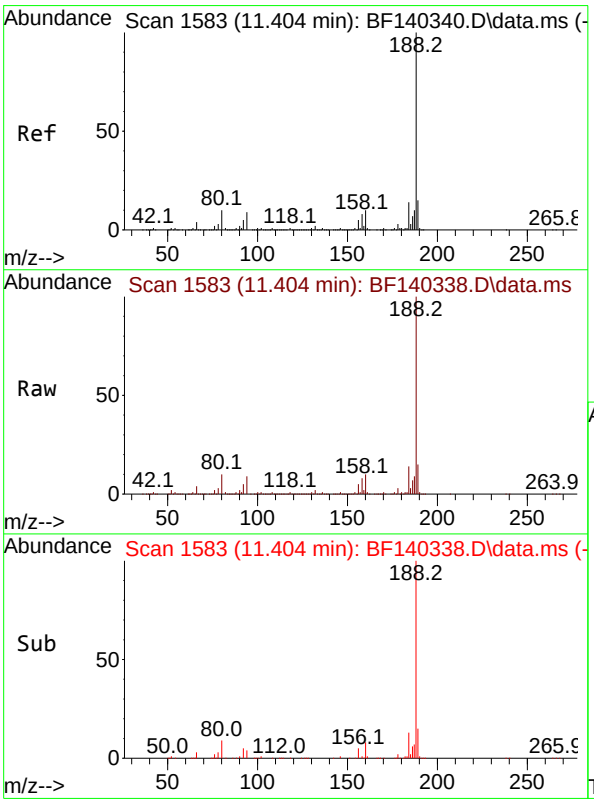
#63
Azobenzene
Concen: 56.677 ng
RT: 10.616 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 1305799

Ion	Ratio	Lower	Upper
77	100		
182	23.2	4.6	44.6
105	20.4	0.9	40.9
51	29.6	8.3	48.3

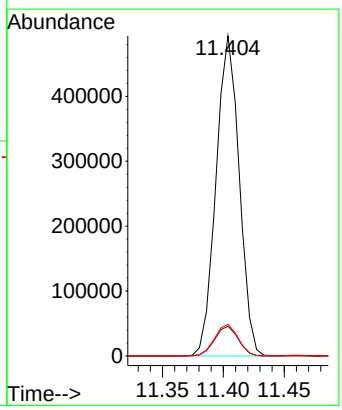


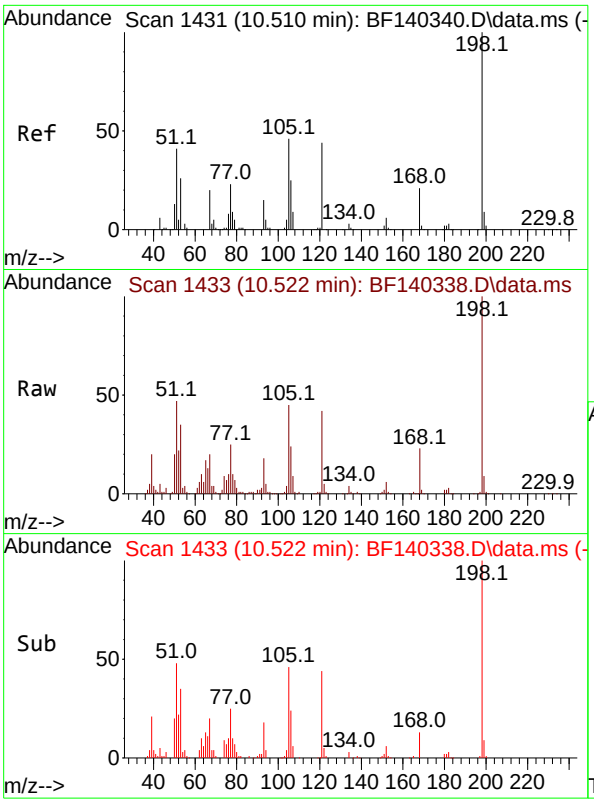


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:188 Resp: 653888

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.6	11.4
80	9.9	8.0	12.0



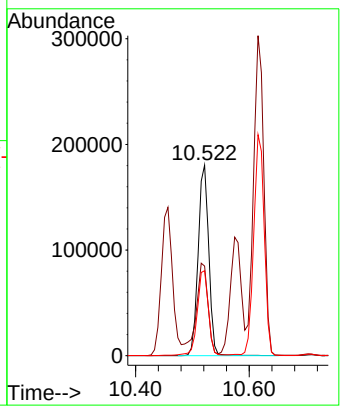


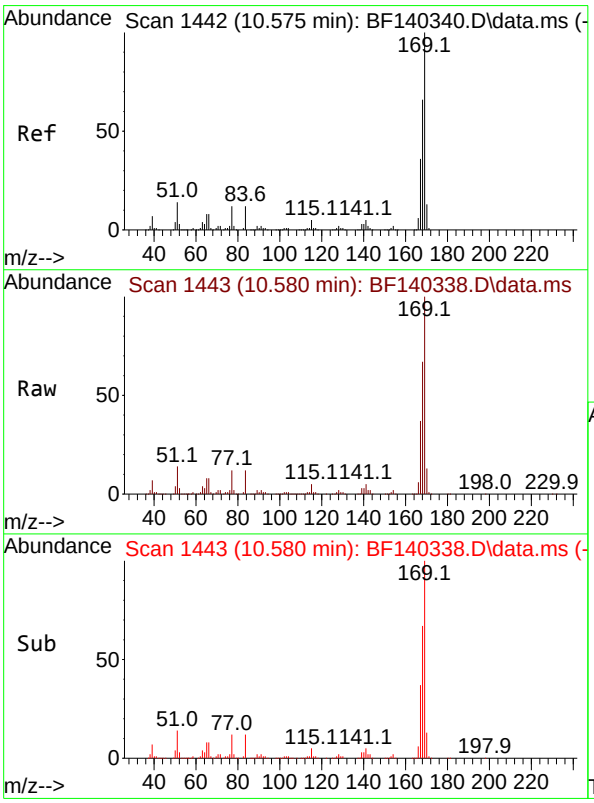
#65
4,6-Dinitro-2-methylphenol
Concen: 66.702 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 234662

Ion	Ratio	Lower	Upper
198	100		
51	47.0	29.7	69.7
105	44.6	26.3	66.3

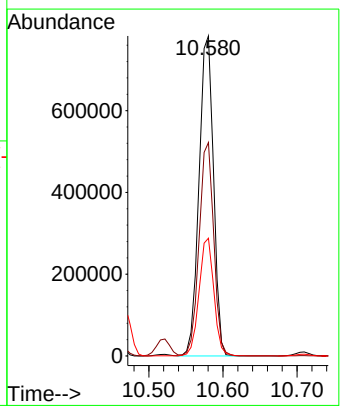


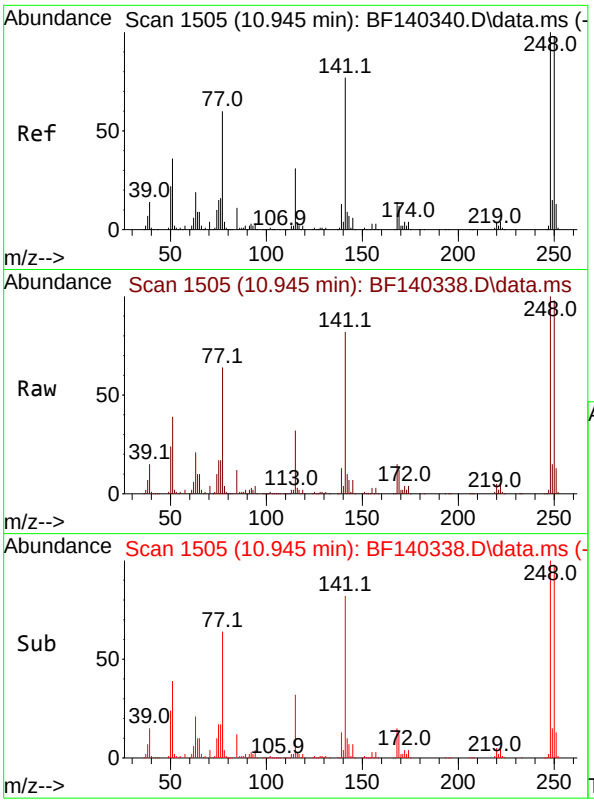


#66
n-Nitrosodiphenylamine
Concen: 56.163 ng
RT: 10.580 min Scan# 1443
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:169 Resp: 1061092

Ion	Ratio	Lower	Upper
169	100		
168	66.7	52.7	79.1
167	36.8	29.3	43.9



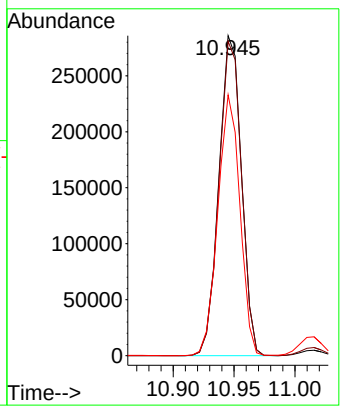


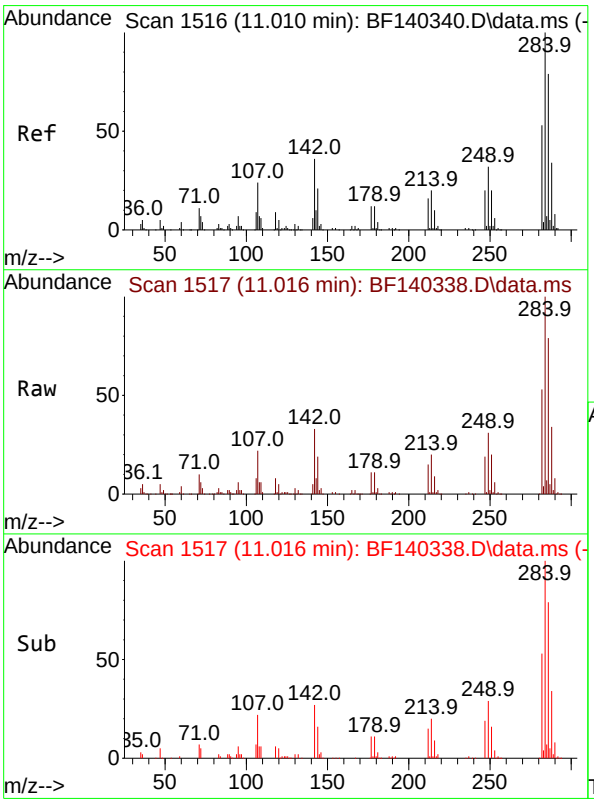
#67
4-Bromophenyl-phenylether
Concen: 56.461 ng
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 369051

Ion	Ratio	Lower	Upper
248	100		
250	98.3	77.9	116.9
141	81.5	61.8	92.6

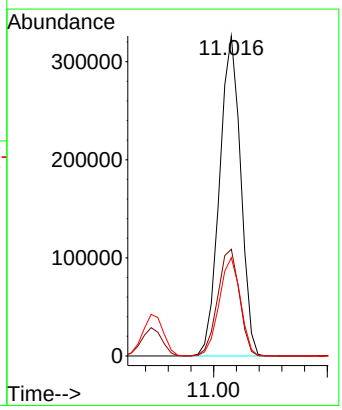


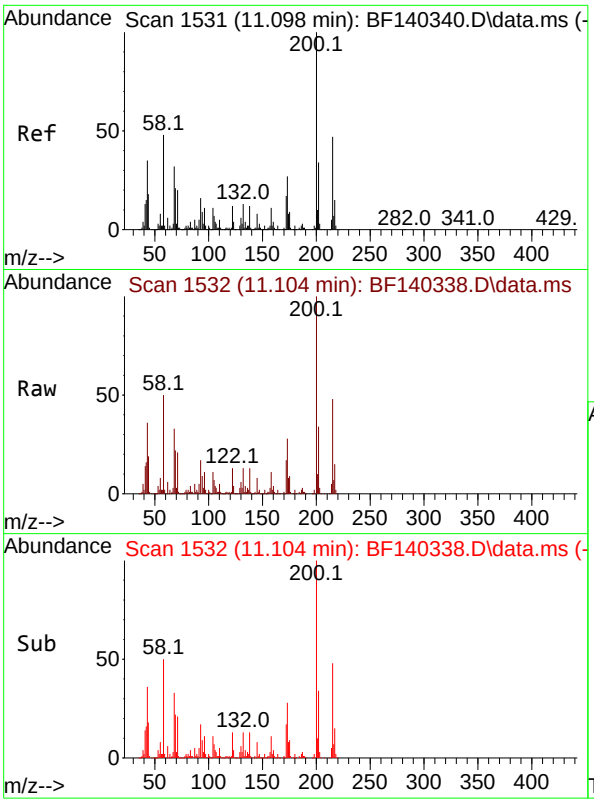


#68
Hexachlorobenzene
Concen: 57.387 ng
RT: 11.016 min Scan# 1517
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:284 Resp: 422038

Ion	Ratio	Lower	Upper
284	100		
142	33.3	28.1	42.1
249	30.7	24.9	37.3



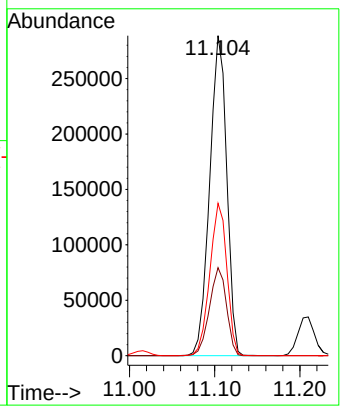


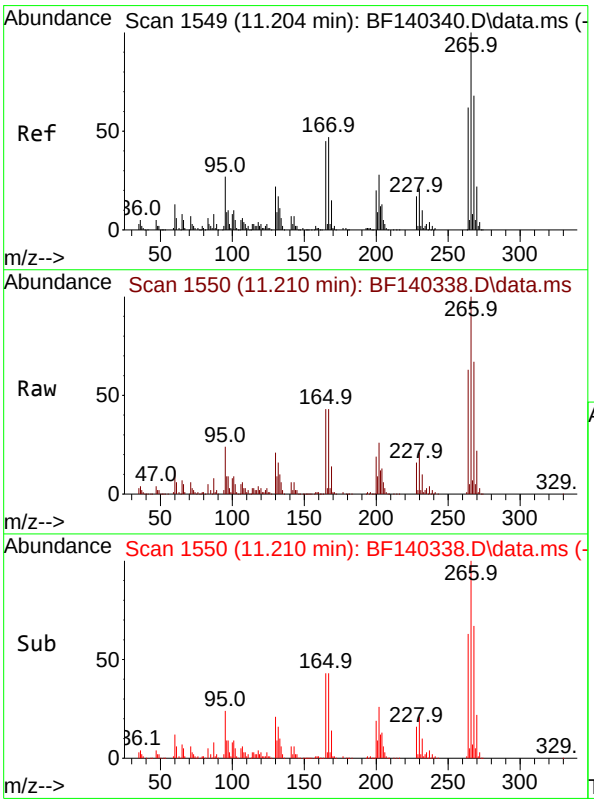
#69
Atrazine
Concen: 70.474 ng
RT: 11.104 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 402831

Ion	Ratio	Lower	Upper
200	100		
173	27.5	6.6	46.6
215	47.6	27.2	67.2

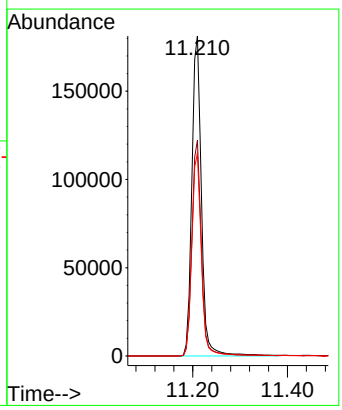


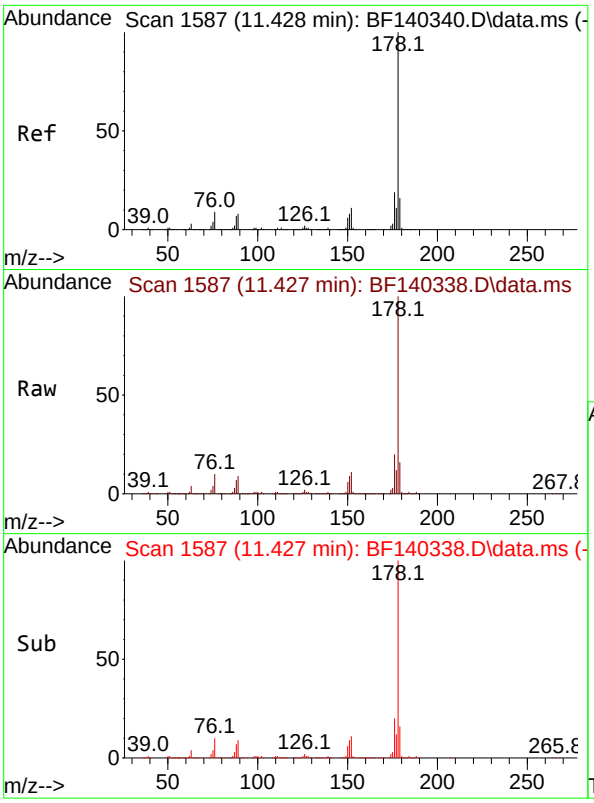


#70
Pentachlorophenol
Concen: 64.427 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:266 Resp: 255229

Ion	Ratio	Lower	Upper
266	100		
268	67.4	52.9	79.3
264	63.3	50.3	75.5



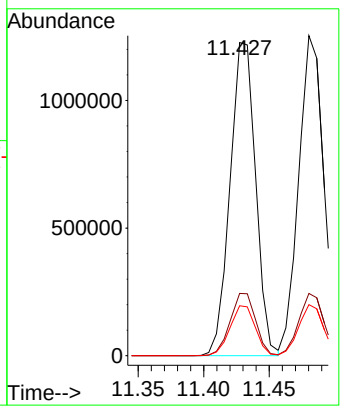


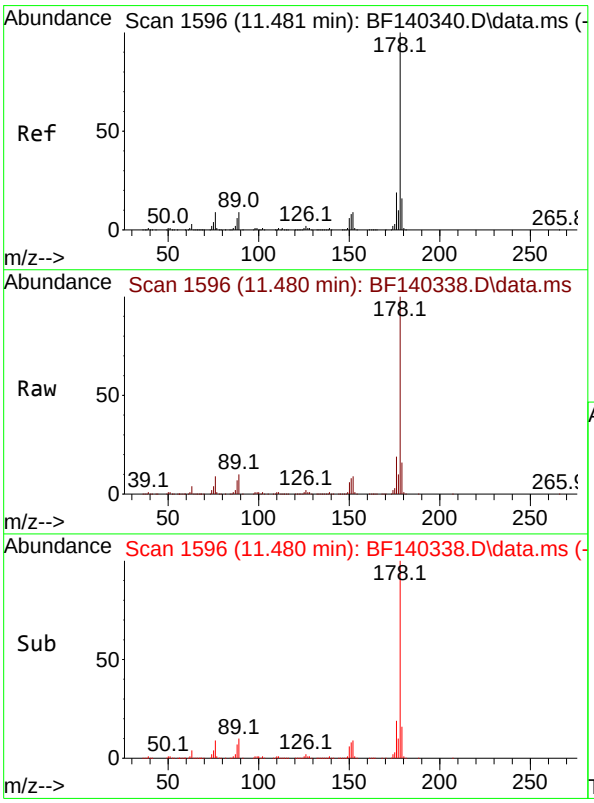
#71
Phenanthrene
Concen: 54.363 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 1669857

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.5	23.3
179	15.9	12.4	18.6

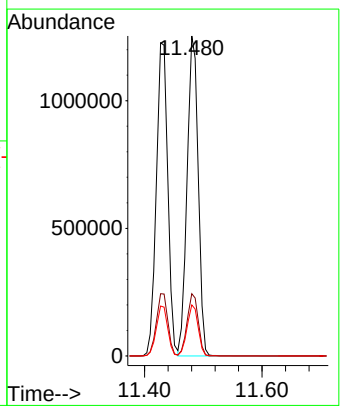


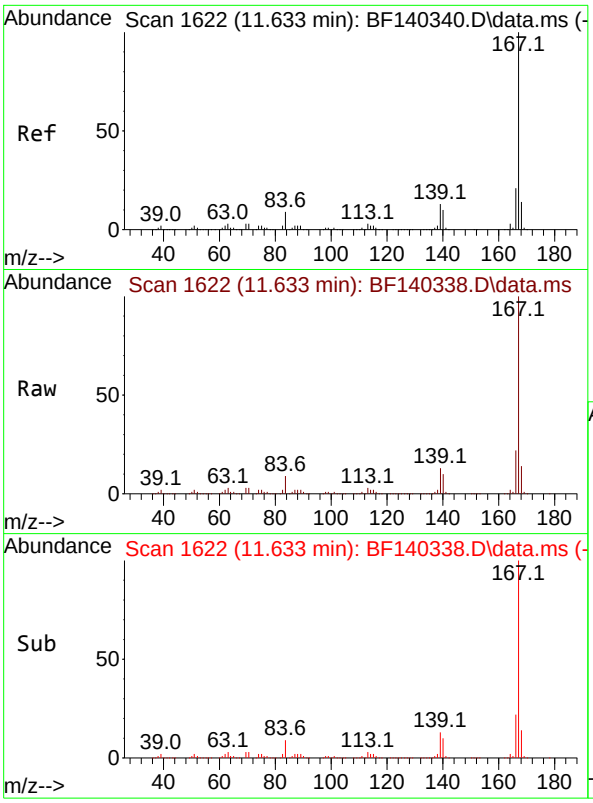


#72
Anthracene
Concen: 54.639 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:178 Resp: 1644863

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	16.0	12.6	18.8



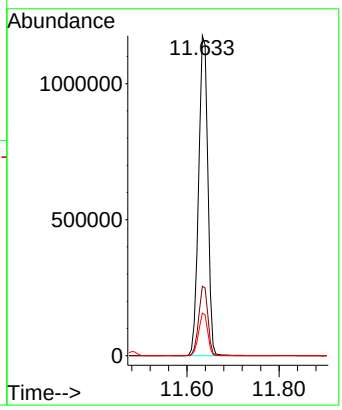


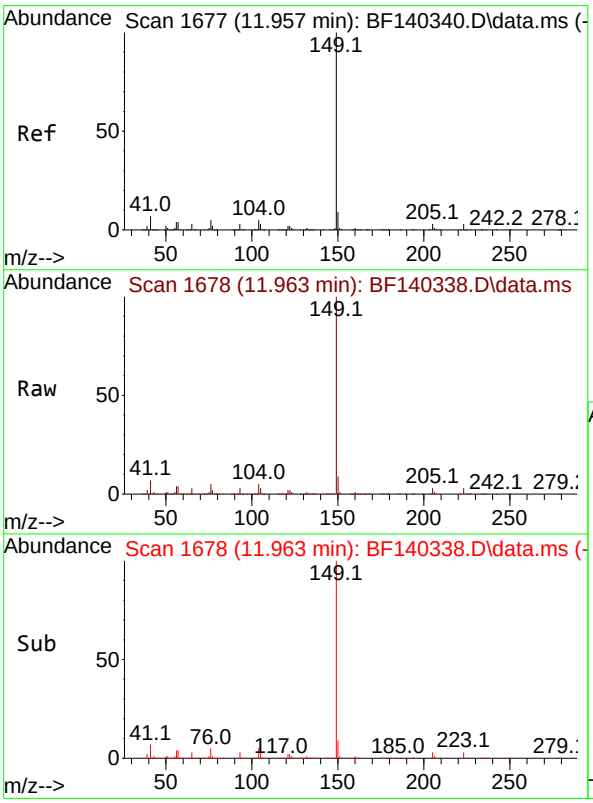
#73
Carbazole
Concen: 55.034 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 1635888

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.2	25.8
139	13.3	10.4	15.6

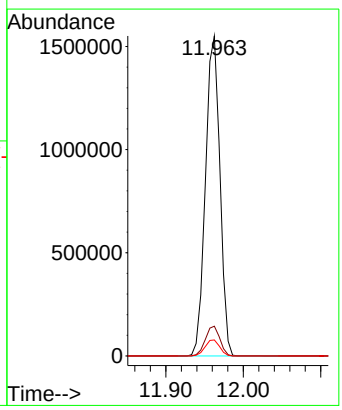


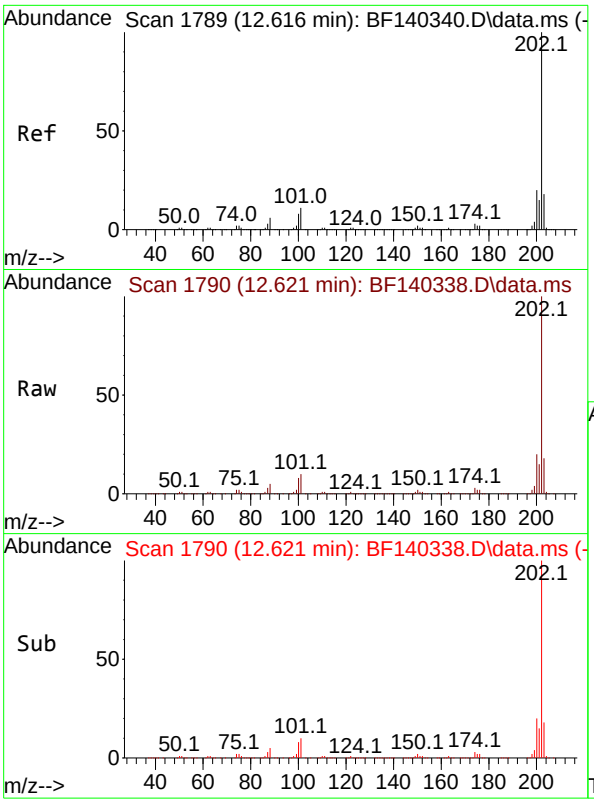


#74
Di-n-butylphthalate
Concen: 56.225 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:149 Resp: 2005925

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.0	4.0	6.0



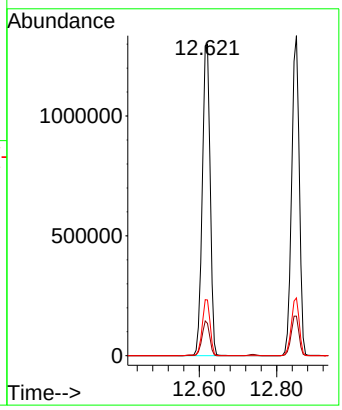


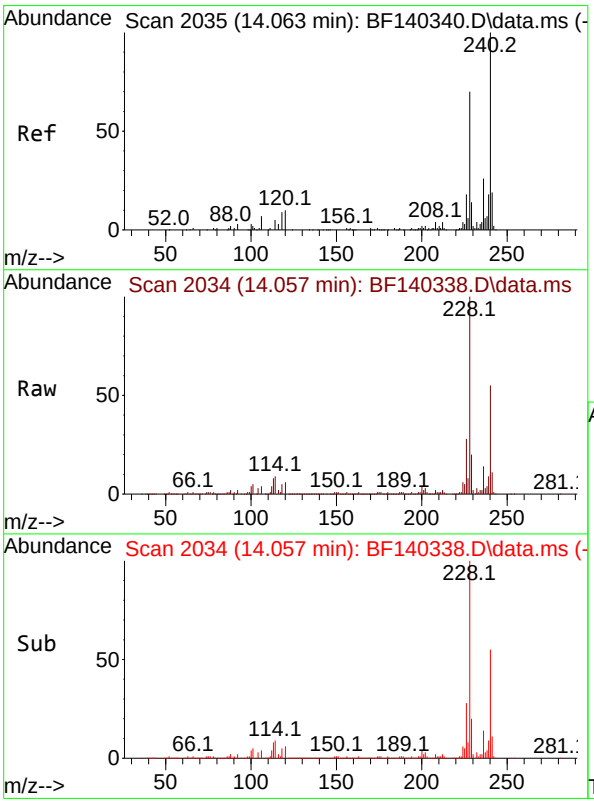
#75
Fluoranthene
Concen: 53.118 ng
RT: 12.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 1830547

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	30.7
203	17.9	0.0	37.7

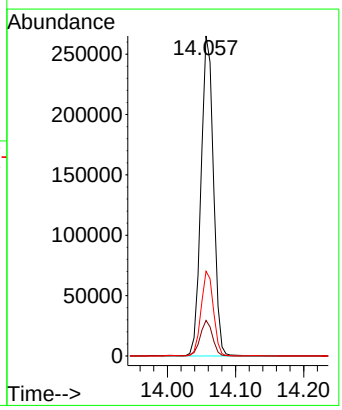


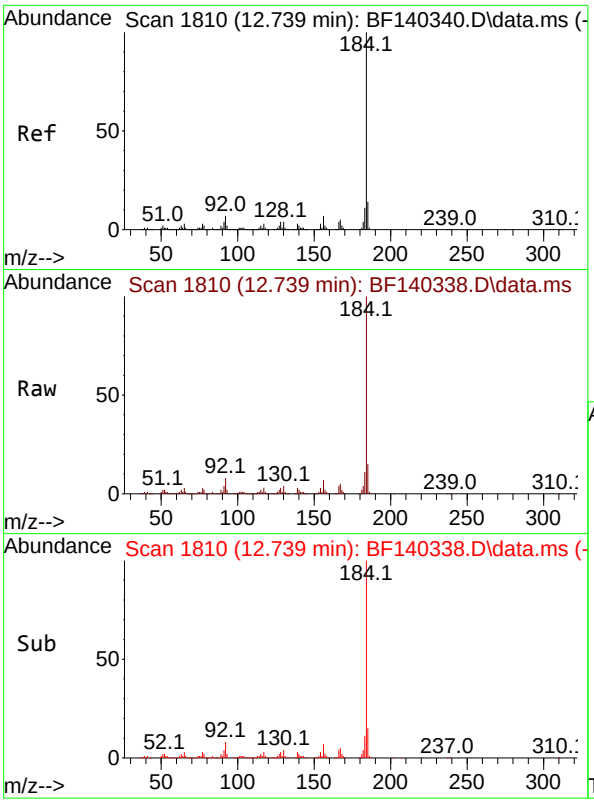


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:240 Resp: 336717

Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.8	13.2
236	26.4	20.9	31.3



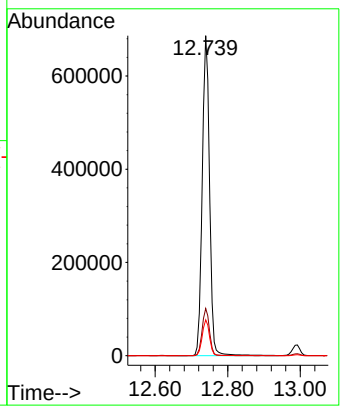


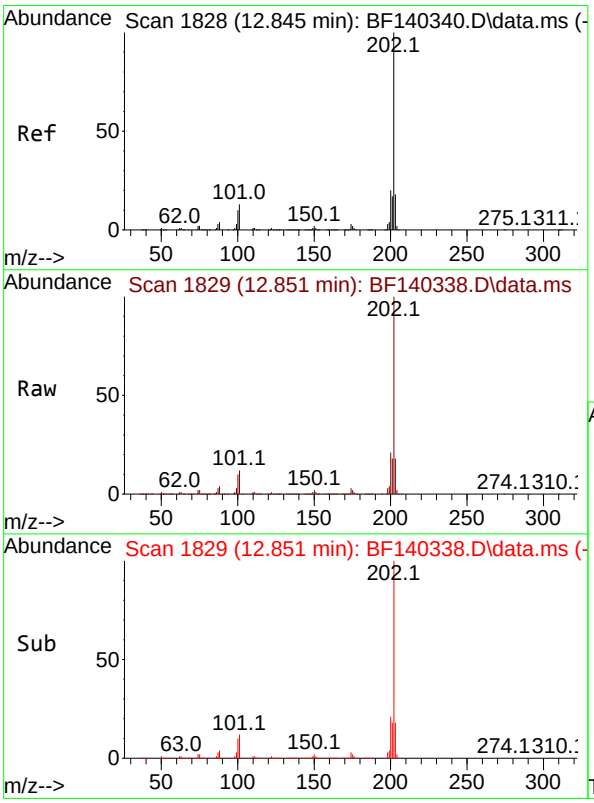
#77
Benzidine
Concen: 74.521 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 963069

Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.9	17.9
183	11.2	8.6	13.0

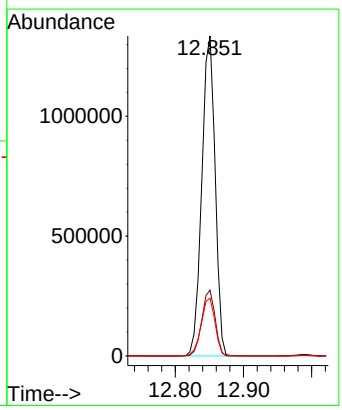


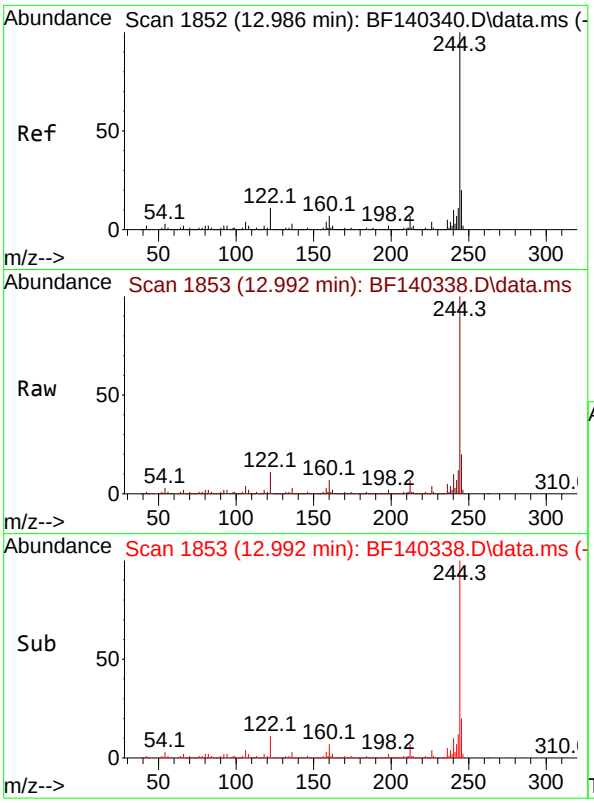


#78
Pyrene
Concen: 63.115 ng
RT: 12.851 min Scan# 1829
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:202 Resp: 1817826

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.2	24.2
203	18.1	14.2	21.4



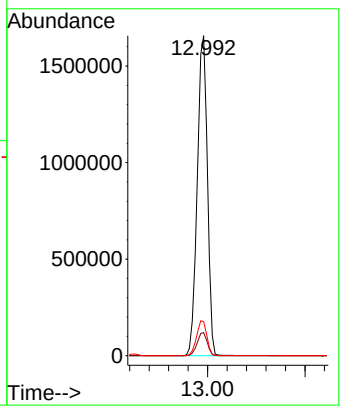


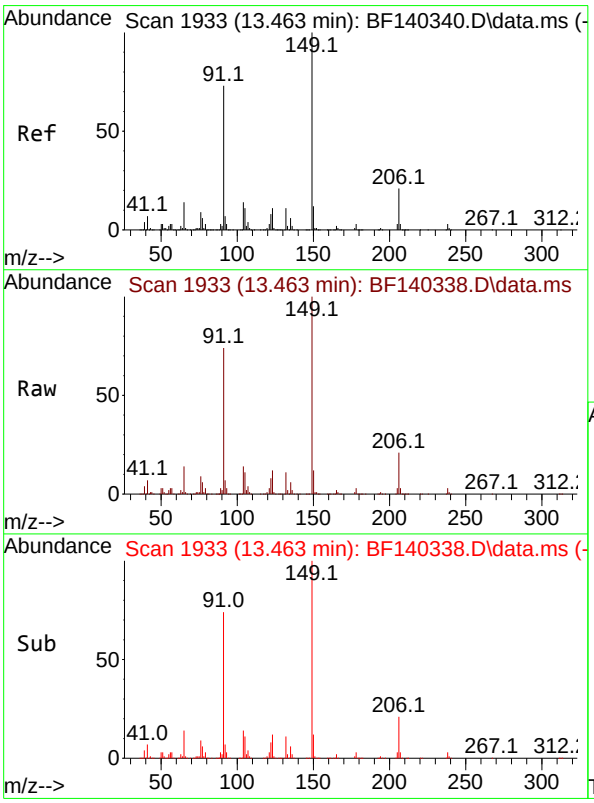
#79
Terphenyl-d14
Concen: 123.975 ng
RT: 12.992 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp: 2404917

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.8
122	10.6	8.8	13.2

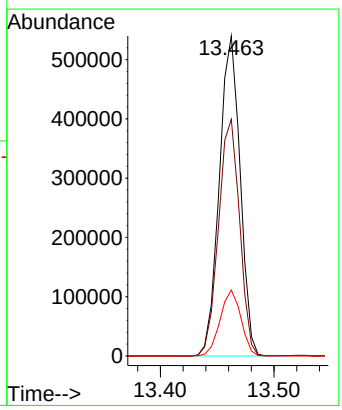


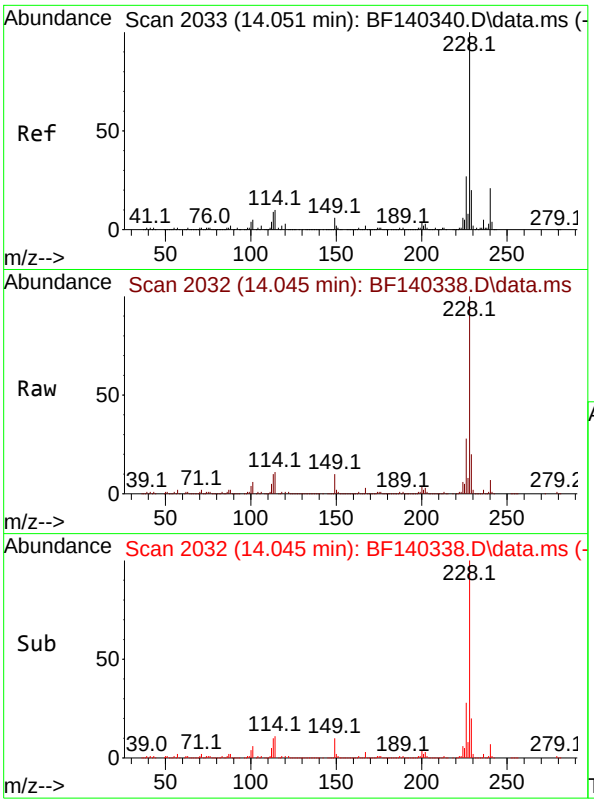


#80
Butylbenzylphthalate
Concen: 62.173 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:149 Resp: 687900

Ion	Ratio	Lower	Upper
149	100		
91	73.9	61.0	91.4
206	20.6	16.1	24.1



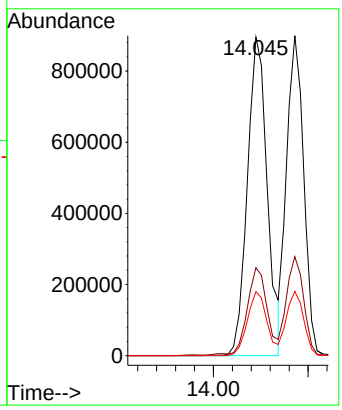


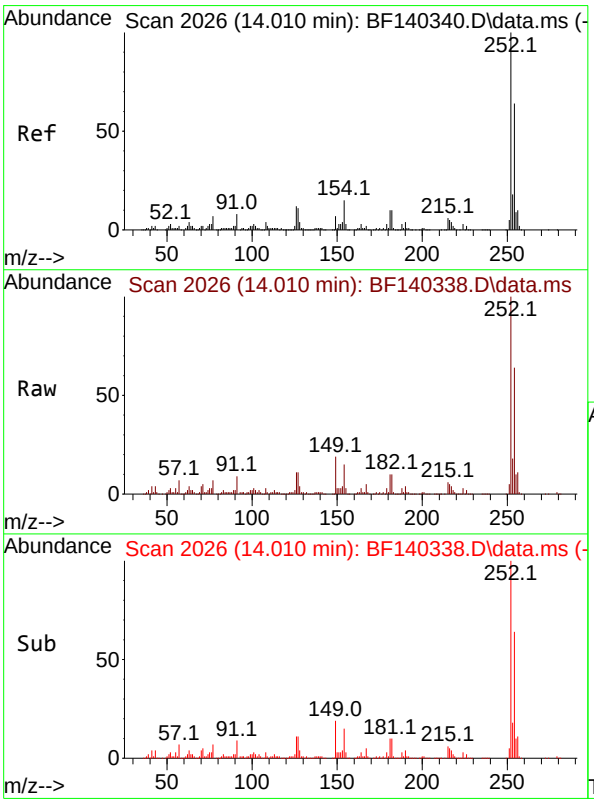
#81
Benzo(a)anthracene
Concen: 59.054 ng
RT: 14.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 1306865

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.2	33.4
229	20.1	15.8	23.6

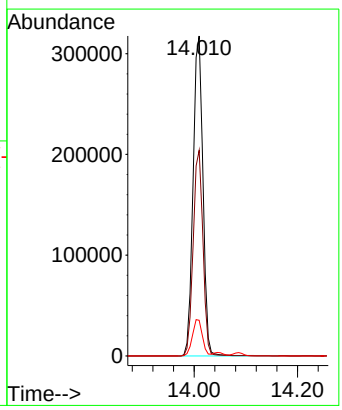


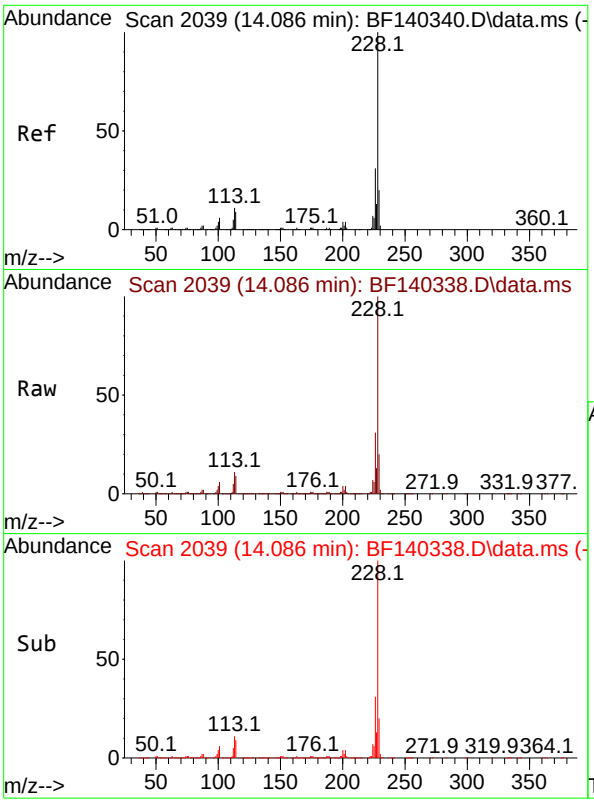


#82
3,3'-Dichlorobenzidine
Concen: 59.701 ng
RT: 14.010 min Scan# 2026
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:252 Resp: 419937

Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.4	77.2
126	11.1	9.4	14.0



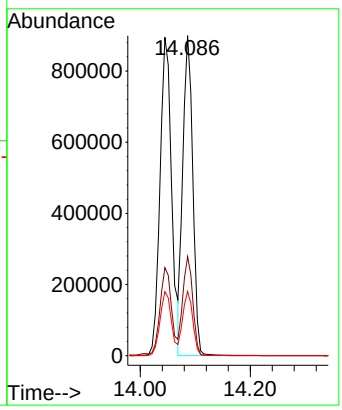


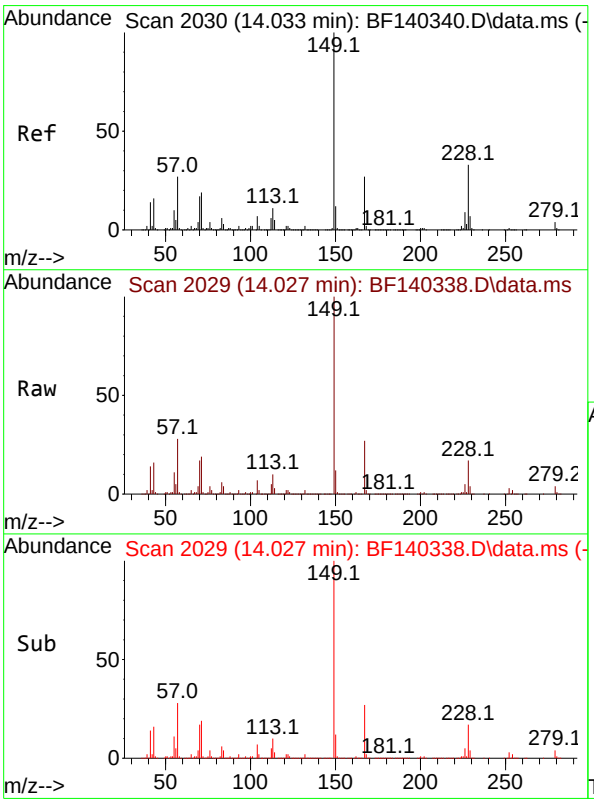
#83
Chrysene
Concen: 56.198 ng
RT: 14.086 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 1134734

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.5	36.7
229	20.1	16.0	24.0

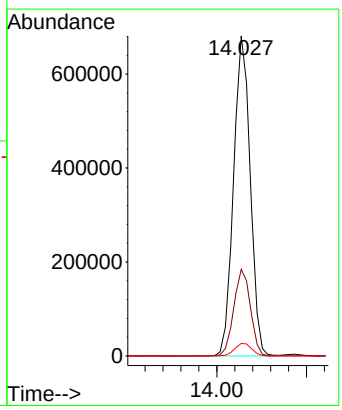


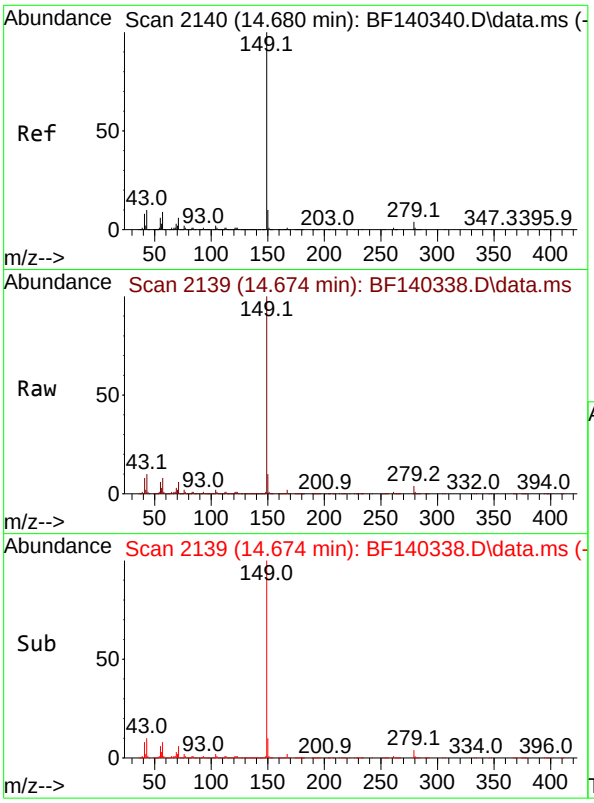


#84
Bis(2-ethylhexyl)phthalate
Concen: 59.407 ng
RT: 14.027 min Scan# 2029
Delta R.T. 0.006 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:149 Resp: 877334

Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.4	32.0
279	3.9	3.0	4.6



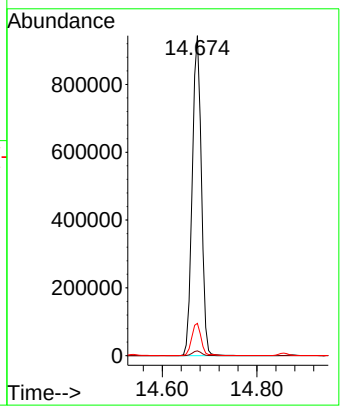


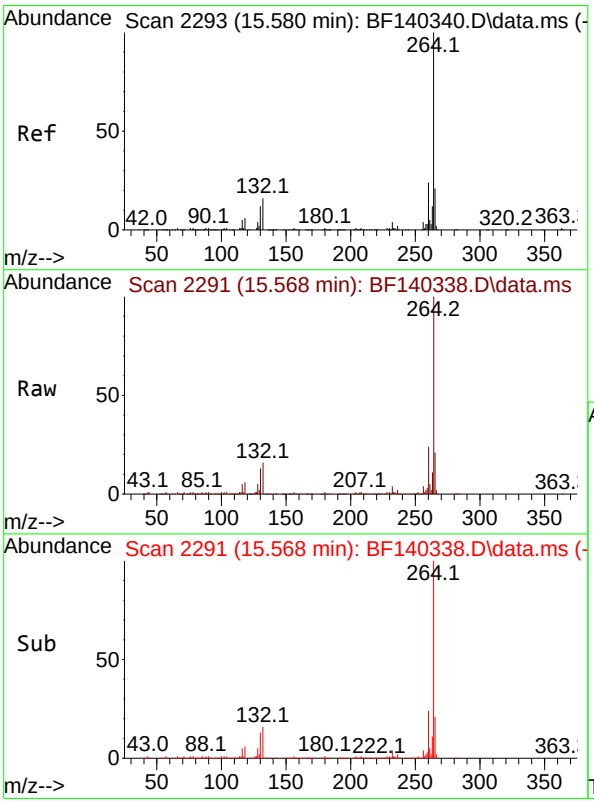
#85
Di-n-octyl phthalate
Concen: 60.287 ng
RT: 14.674 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 1253939

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.5	8.0	12.0

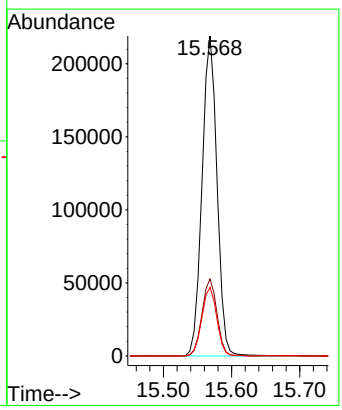


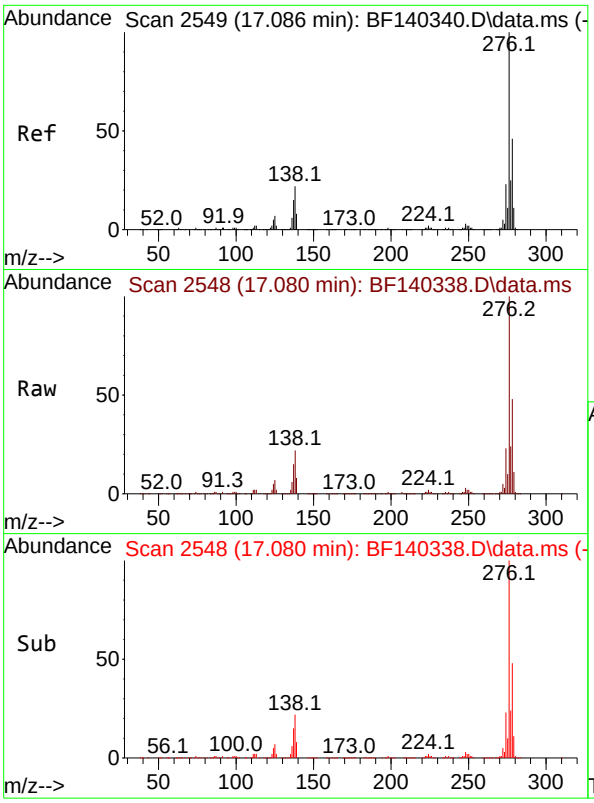


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2291
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:264 Resp: 334279

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	21.5	17.1	25.7



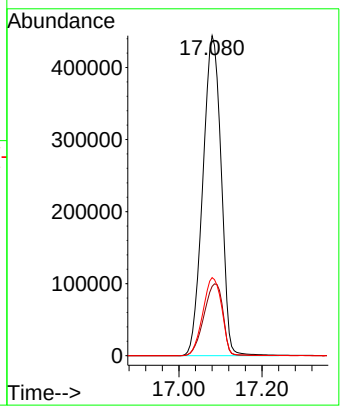


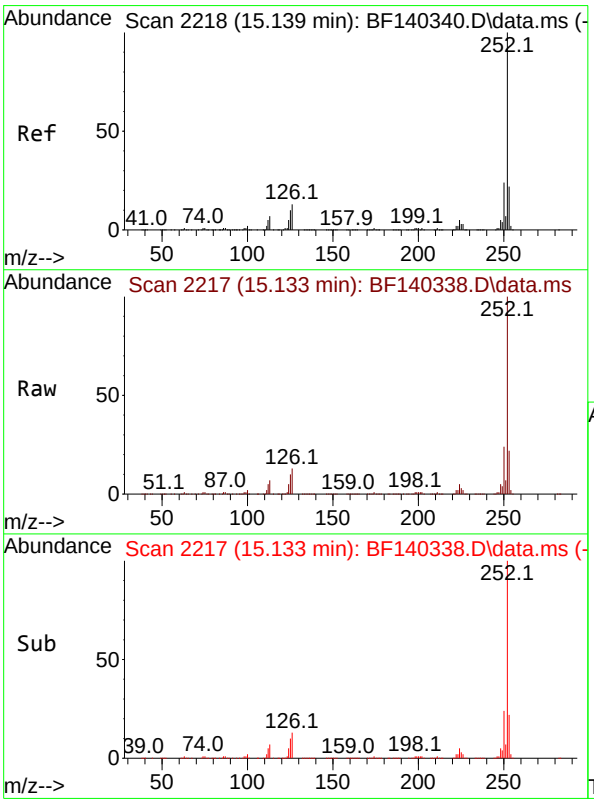
#87
Indeno(1,2,3-cd)pyrene
Concen: 65.759 ng
RT: 17.080 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 1357877

Ion	Ratio	Lower	Upper
276	100		
138	23.5	18.8	28.2
277	25.3	20.2	30.2

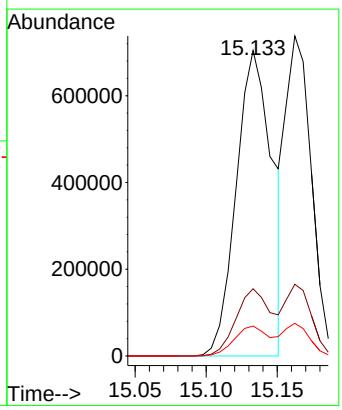


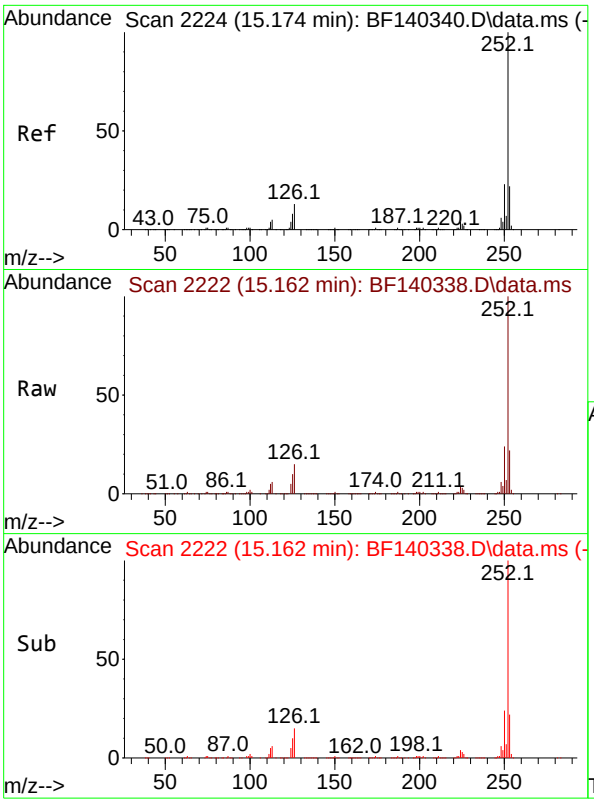


#88
Benzo(b)fluoranthene
Concen: 56.564 ng
RT: 15.133 min Scan# 2217
Delta R.T. 0.017 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:252 Resp: 1236880

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.8	8.0	12.0



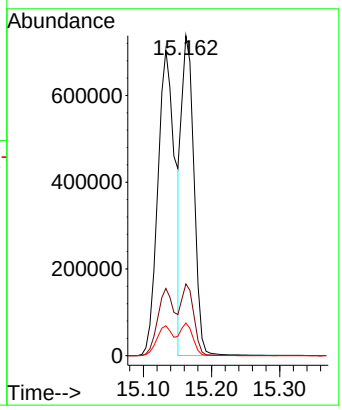


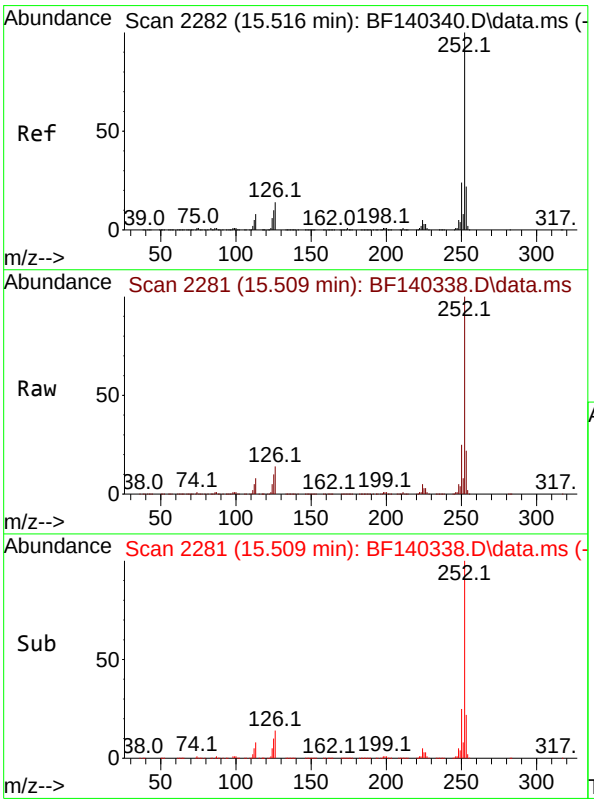
#89
Benzo(k)fluoranthene
Concen: 52.473 ng
RT: 15.162 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 937366

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.3	25.9
125	10.2	7.4	11.2

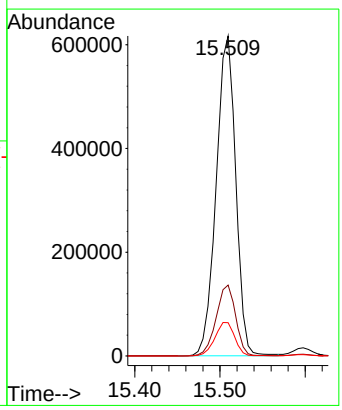


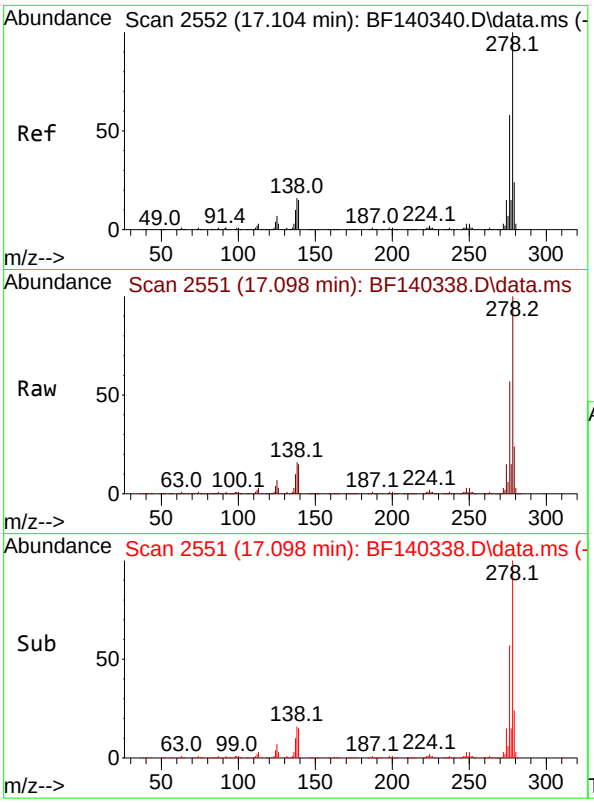


#90
Benzo(a)pyrene
Concen: 57.887 ng
RT: 15.509 min Scan# 2281
Delta R.T. 0.017 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:252 Resp: 982982

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	10.4	8.4	12.6



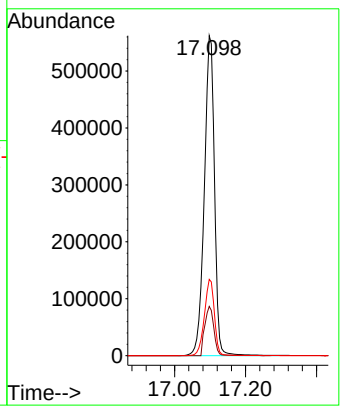


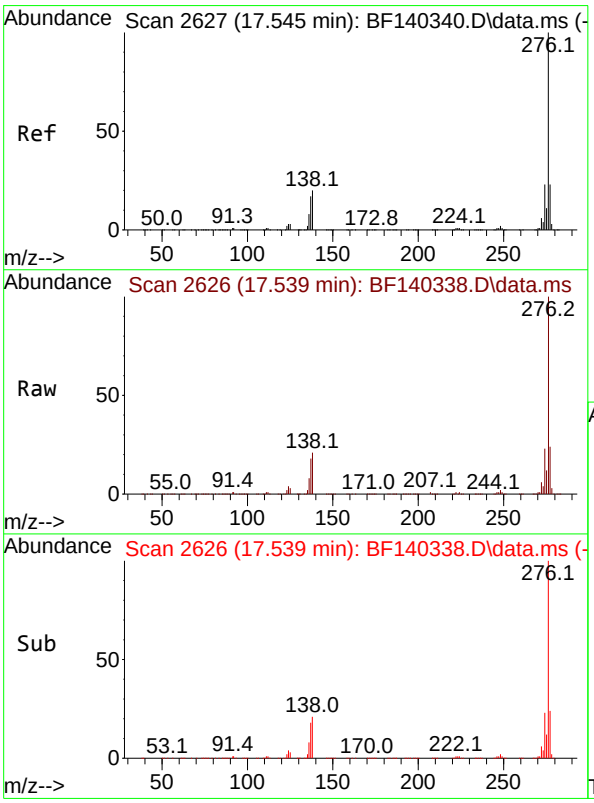
#91
Dibenzo(a,h)anthracene
Concen: 65.856 ng
RT: 17.098 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 1124071

Ion	Ratio	Lower	Upper
278	100		
139	15.4	11.8	17.8
279	23.9	18.9	28.3

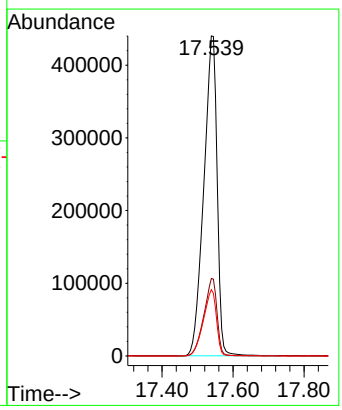




#92
Benzo(g,h,i)perylene
Concen: 65.870 ng
RT: 17.539 min Scan# 2626
Delta R.T. 0.023 min
Lab File: BF140338.D
Acq: 13 Nov 2024 11:47

Tgt Ion:276 Resp: 1149411

Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.6	28.0
138	20.7	16.0	24.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140339.D
Acq On : 13 Nov 2024 12:13
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:36:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	160348	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	586224	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	324351	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	591968	20.000	ng		0.00
76) Chrysene-d12	14.057	240	305715	20.000	ng		0.00
86) Perylene-d12	15.562	264	310894	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	1324090	140.989	ng		0.00
7) Phenol-d6	6.522	99	1804257	141.801	ng		0.02
23) Nitrobenzene-d5	7.451	82	1661144	147.640	ng		0.01
42) 2,4,6-Tribromophenol	10.710	330	471699	146.244	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	2675376	132.597	ng		0.00
79) Terphenyl-d14	12.992	244	2674139	151.833	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.651	88	307882	73.555	ng		100
3) Pyridine	3.422	79	735683	71.493	ng		99
4) n-Nitrosodimethylamine	3.398	42	402441	77.381	ng		99
6) Aniline	6.551	93	684015	61.797	ng	#	84
8) 2-Chlorophenol	6.675	128	709152	70.295	ng		99
10) Phenol	6.534	94	947993	70.649	ng		92
11) bis(2-Chloroethyl)ether	6.622	93	756191	74.376	ng		99
12) 1,3-Dichlorobenzene	6.822	146	783204	70.364	ng		98
13) 1,4-Dichlorobenzene	6.898	146	783319	69.404	ng		99
14) 1,2-Dichlorobenzene	7.057	146	710399	67.802	ng		99
15) Benzyl Alcohol	7.028	79	654439	71.389	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	993408	70.738	ng		96
17) 2-Methylphenol	7.133	107	604396	72.829	ng		98
18) Hexachloroethane	7.392	117	300328	71.979	ng		98
19) n-Nitroso-di-n-propyla...	7.304	70	543998	70.790	ng		100
20) 3+4-Methylphenols	7.292	107	699451	67.394	ng		96
22) Acetophenone	7.298	105	963095	70.637	ng		99
24) Nitrobenzene	7.469	77	870976	74.350	ng		99
25) Isophorone	7.704	82	1487295	74.586	ng		100
26) 2-Nitrophenol	7.781	139	401982	77.328	ng		99
27) 2,4-Dimethylphenol	7.816	122	500708	75.234	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	887655	72.597	ng		100
29) 2,4-Dichlorophenol	8.022	162	597530	72.647	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	663478	72.454	ng		99
31) Naphthalene	8.186	128	2076967	69.842	ng		99
32) Benzoic acid	7.969	122	529009	90.483	ng		96
33) 4-Chloroaniline	8.245	127	729859	70.572	ng		99
34) Hexachlorobutadiene	8.298	225	417242	71.513	ng		100
35) Caprolactam	8.627	113	208353m	75.344	ng		
36) 4-Chloro-3-methylphenol	8.716	107	672162	73.742	ng		100
37) 2-Methylnaphthalene	8.875	142	1323889	69.428	ng		100
38) 1-Methylnaphthalene	8.975	142	1289276	69.046	ng		99
40) 1,2,4,5-Tetrachloroben...	9.039	216	629856	70.223	ng		100
41) Hexachlorocyclopentadiene	9.022	237	187869	81.579	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	442116	75.110	ng		99
44) 2,4,5-Trichlorophenol	9.198	196	468390	72.781	ng		98

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140339.D
Acq On : 13 Nov 2024 12:13
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Nov 13 14:36:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.339	154	1613420	68.375	ng	99
47) 2-Chloronaphthalene	9.363	162	1259442	70.067	ng	98
48) 2-Nitroaniline	9.463	65	454975	76.323	ng	98
49) Acenaphthylene	9.780	152	1869941	68.758	ng	99
50) Dimethylphthalate	9.645	163	1532197	72.473	ng	100
51) 2,6-Dinitrotoluene	9.704	165	348019	72.207	ng	93
52) Acenaphthene	9.951	154	1305360	71.065	ng	99
53) 3-Nitroaniline	9.874	138	356185	70.369	ng	98
54) 2,4-Dinitrophenol	9.980	184	217511	87.514	ng	98
55) Dibenzofuran	10.127	168	1743431	67.047	ng	100
56) 4-Nitrophenol	10.033	139	291787	79.032	ng	96
57) 2,4-Dinitrotoluene	10.110	165	454770	71.693	ng	94
58) Fluorene	10.469	166	1382804	67.316	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	374293	73.723	ng	100
60) Diethylphthalate	10.339	149	1537607	71.126	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	685111	67.555	ng	99
62) 4-Nitroaniline	10.498	138	385246	74.437	ng	100
63) Azobenzene	10.621	77	1508804	70.637	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	274337	86.136	ng	99
66) n-Nitrosodiphenylamine	10.580	169	1237130	72.330	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	426112	72.010	ng	99
68) Hexachlorobenzene	11.016	284	491825	73.871	ng	99
69) Atrazine	11.110	200	495230	95.702	ng	99
70) Pentachlorophenol	11.210	266	308099	85.908	ng	99
71) Phenanthrene	11.433	178	1941678	69.825	ng	99
72) Anthracene	11.486	178	1901483	69.770	ng	100
73) Carbazole	11.639	167	1853513	68.878	ng	99
74) Di-n-butylphthalate	11.963	149	2283744	70.708	ng	100
75) Fluoranthene	12.621	202	2053832	65.832	ng	99
77) Benzidine	12.739	184	1147944	97.835	ng	99
78) Pyrene	12.851	202	2044224	78.173	ng	99
80) Butylbenzylphthalate	13.462	149	768354	76.487	ng	98
81) Benzo(a)anthracene	14.045	228	1461193	72.724	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	488462	76.486	ng	99
83) Chrysene	14.086	228	1343316	73.275	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	994724	74.186	ng	99
85) Di-n-octyl phthalate	14.668	149	1481946	78.474	ng	99
87) Indeno(1,2,3-cd)pyrene	17.074	276	1638318	85.308	ng	99
88) Benzo(b)fluoranthene	15.127	252	1490709	73.300	ng	100
89) Benzo(k)fluoranthene	15.156	252	1103915	66.445	ng	98
90) Benzo(a)pyrene	15.504	252	1179142	74.662	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	1339293	84.367	ng	99
92) Benzo(g,h,i)perylene	17.539	276	1392525	85.805	ng	99

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

ICAL Form

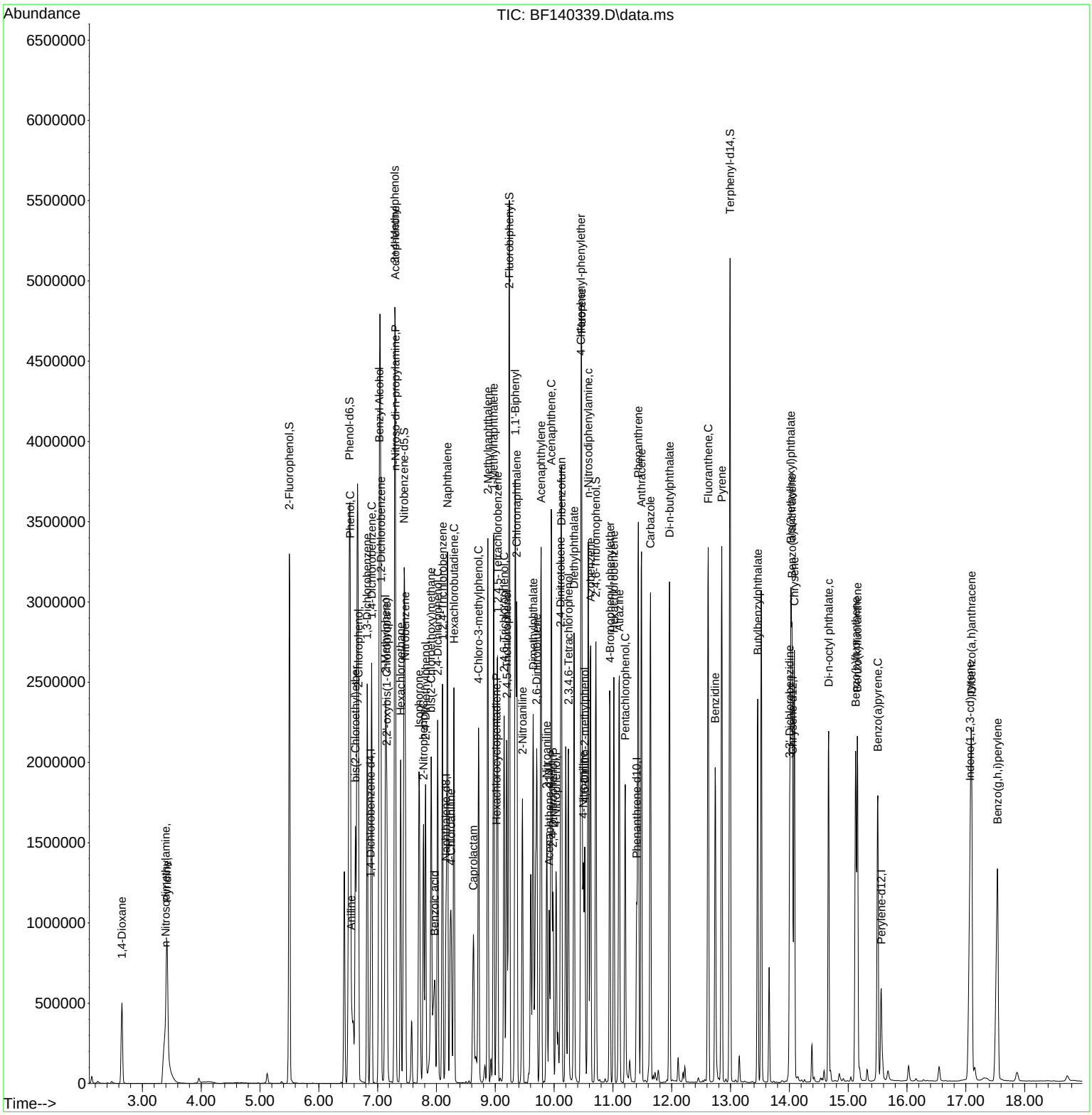
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140339.D
Acq On : 13 Nov 2024 12:13
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

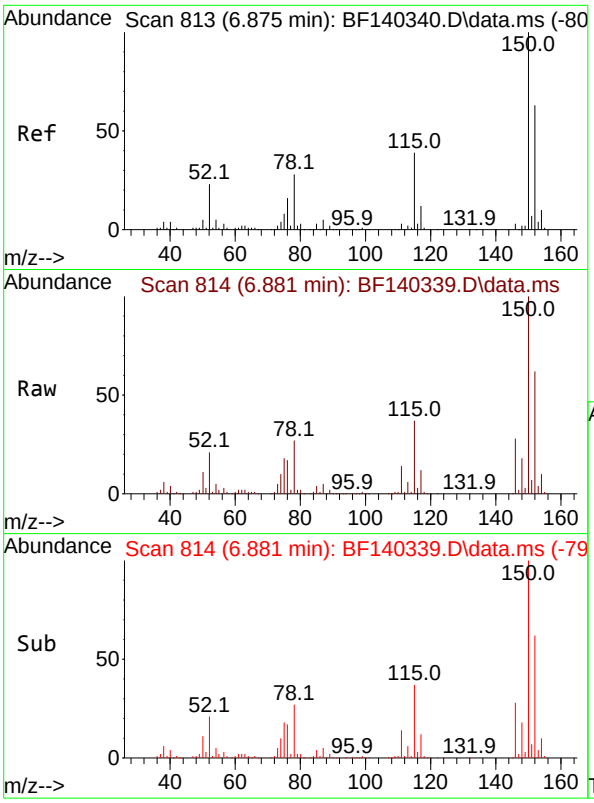
Quant Time: Nov 13 14:36:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

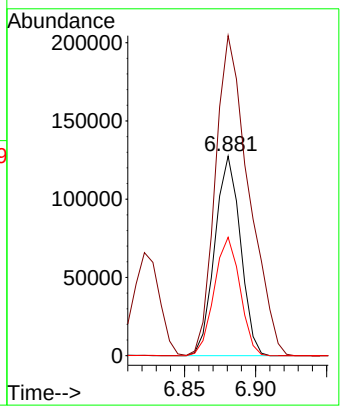




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:152 Resp: 16034

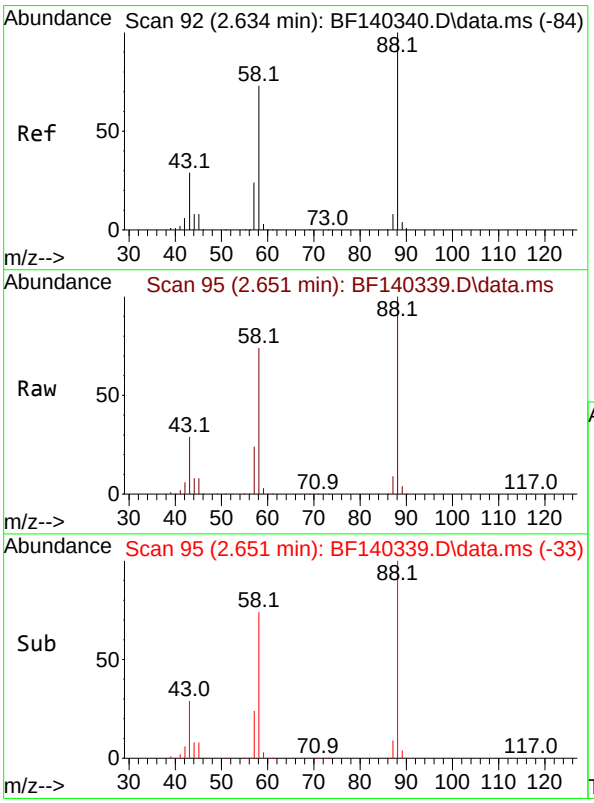
Ion	Ratio	Lower	Upper
152	100		
150	160.4	127.4	191.0
115	59.4	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

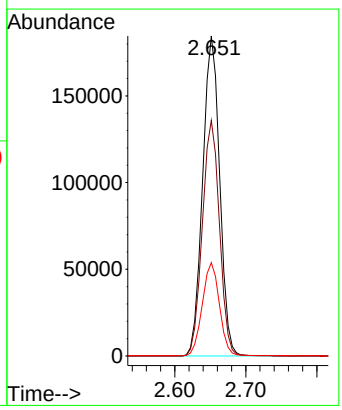
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

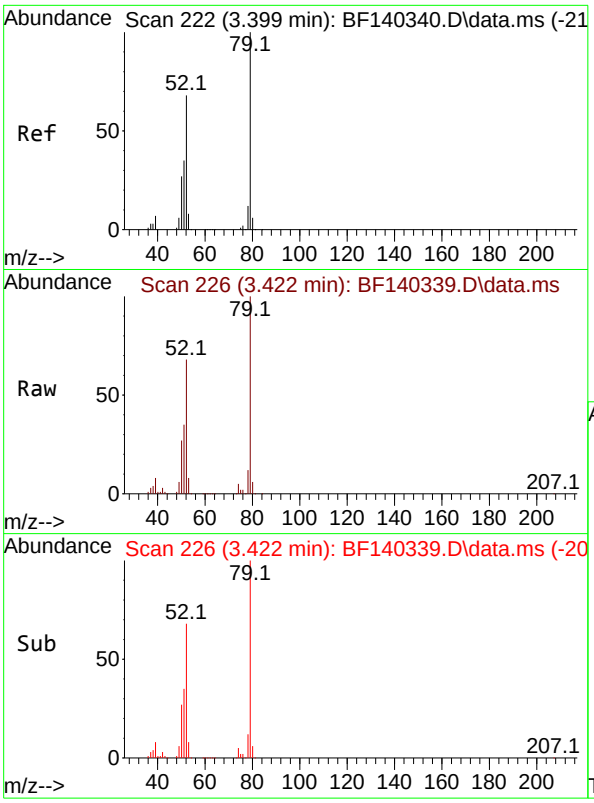


#2
1,4-Dioxane
Concen: 73.555 ng
RT: 2.651 min Scan# 95
Delta R.T. 0.017 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 88 Resp: 307882

Ion	Ratio	Lower	Upper
88	100		
58	74.0	59.5	89.3
43	29.5	23.4	35.2

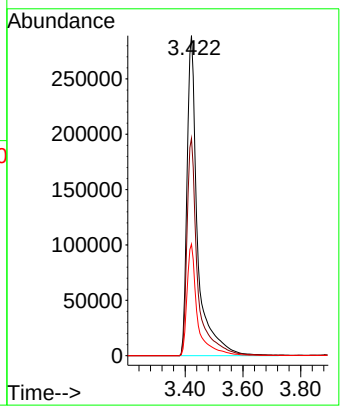




#3
Pyridine
Concen: 71.493 ng
RT: 3.422 min Scan# 2
Delta R.T. 0.017 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 79 Resp: 73568

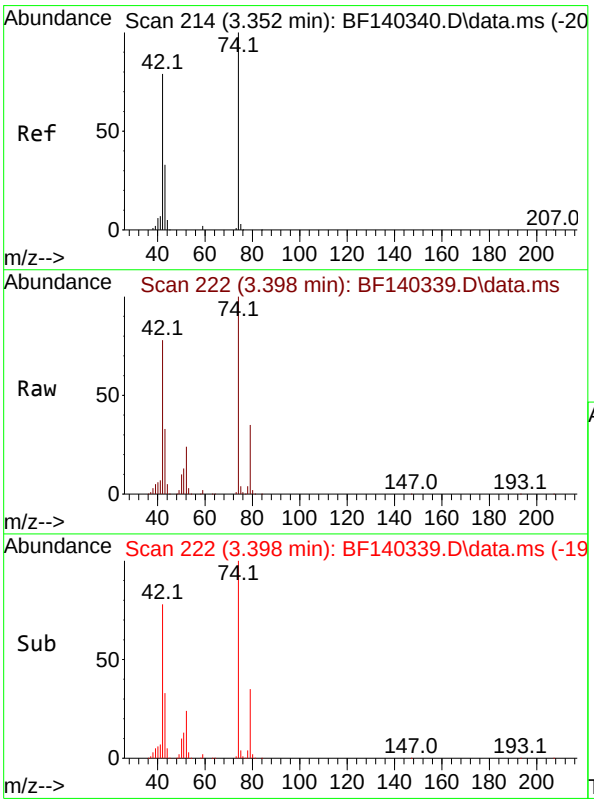
Ion	Ratio	Lower	Upper
79	100		
52	67.9	53.8	80.6
51	34.8	27.3	40.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

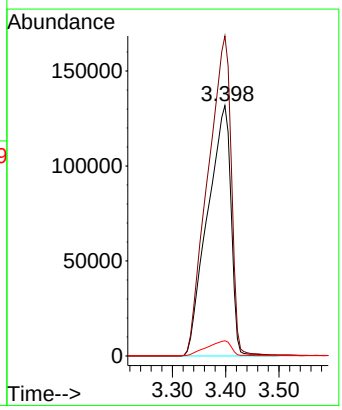
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

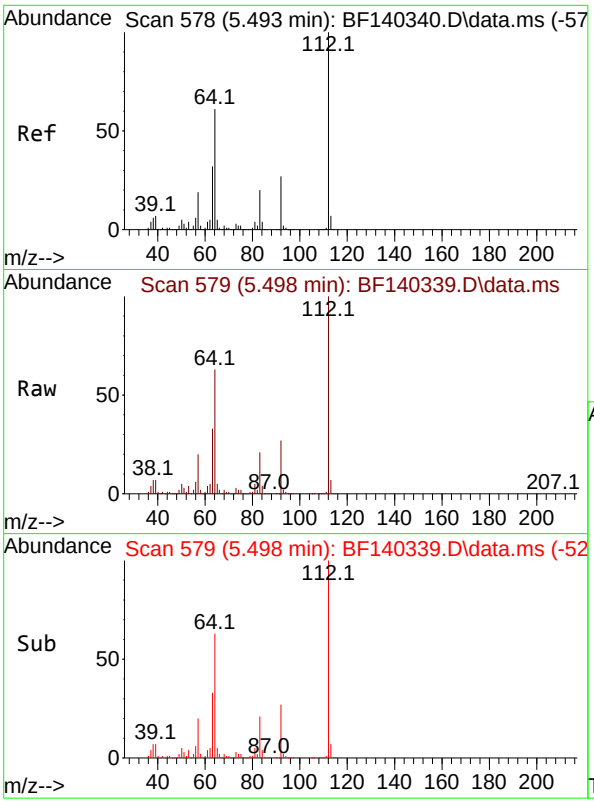


#4
n-Nitrosodimethylamine
Concen: 77.381 ng
RT: 3.398 min Scan# 222
Delta R.T. 0.041 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 42 Resp: 402441

Ion	Ratio	Lower	Upper
42	100		
74	127.8	103.5	155.3
44	6.1	5.1	7.7





#5
2-Fluorophenol
Concen: 140.989 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

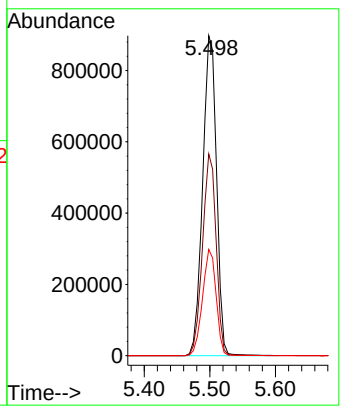
Tgt Ion:112 Resp: 132409

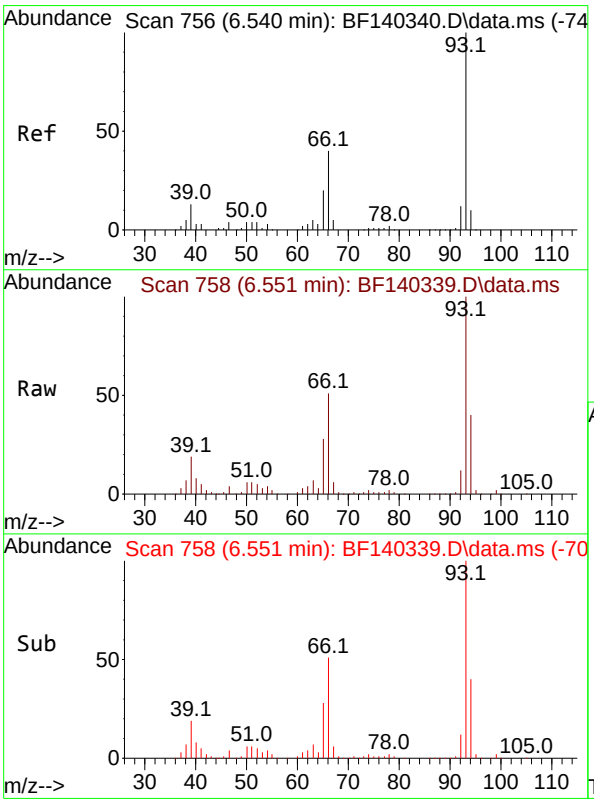
Ion	Ratio	Lower	Upper
112	100		
64	63.1	49.2	73.8
63	33.2	25.6	38.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

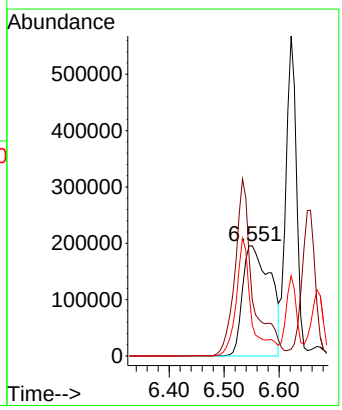


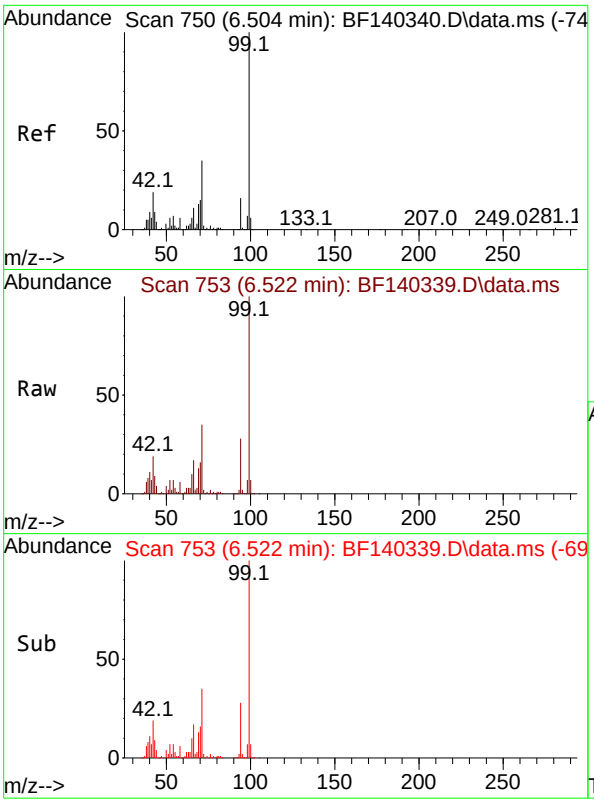


#6
Aniline
Concen: 61.797 ng
RT: 6.551 min Scan# 758
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 93 Resp: 684015

Ion	Ratio	Lower	Upper
93	100		
66	50.8	32.8	49.2#
65	27.9	16.6	25.0#

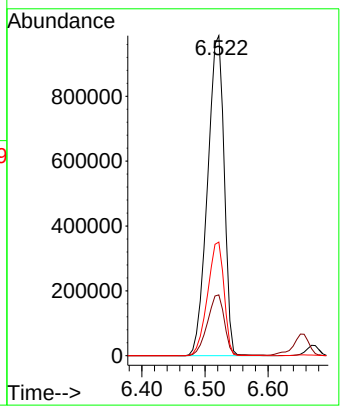




#7
Phenol-d6
Concen: 141.801 ng
RT: 6.522 min Scan# 7
Delta R.T. 0.017 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 99 Resp: 180425

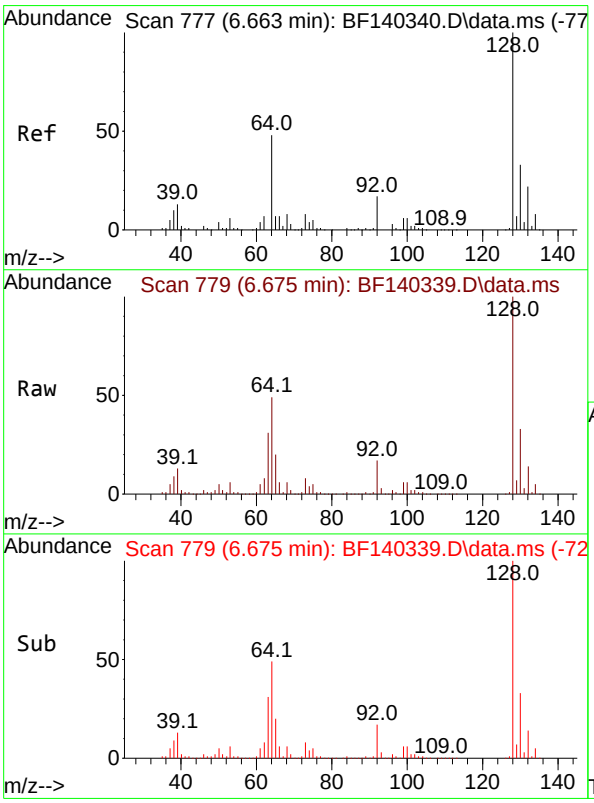
Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.1	22.7
71	35.5	27.9	41.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

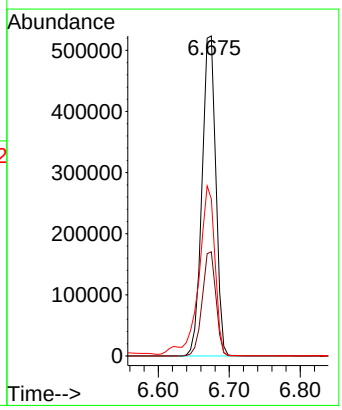
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

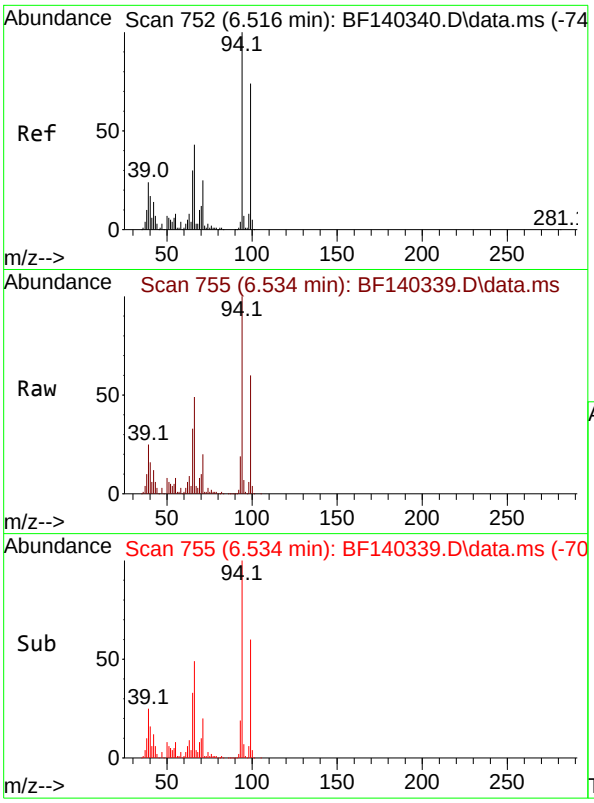


#8
2-Chlorophenol
Concen: 70.295 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:128 Resp: 709152

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.2	52.2
64	49.1	30.2	70.2

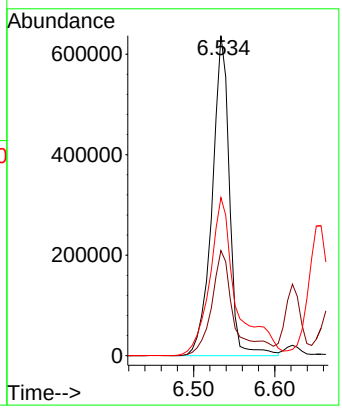




#10
Phenol
Concen: 70.649 ng
RT: 6.534 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 94 Resp: 94799

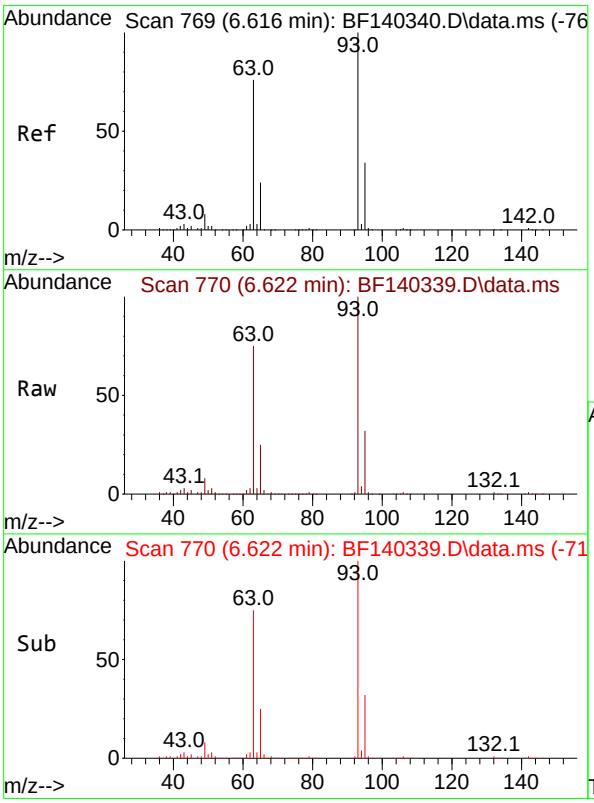
Ion	Ratio	Lower	Upper
94	100		
65	32.8	10.4	50.4
66	49.4	22.9	62.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

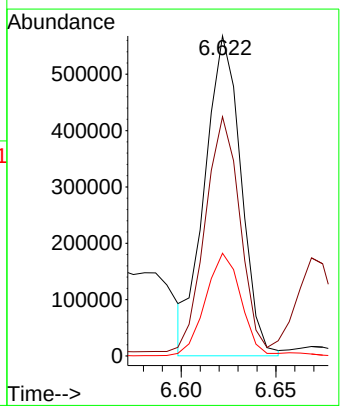
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

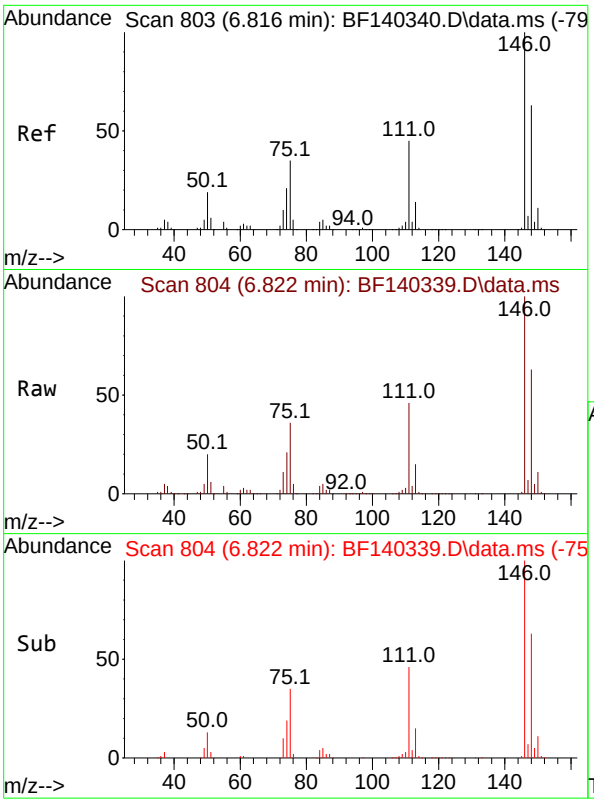


#11
bis(2-Chloroethyl)ether
Concen: 74.376 ng
RT: 6.622 min Scan# 770
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 93 Resp: 756191

Ion	Ratio	Lower	Upper
93	100		
63	74.7	54.0	94.0
95	32.1	12.9	52.9





#12
1,3-Dichlorobenzene
Concen: 70.364 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

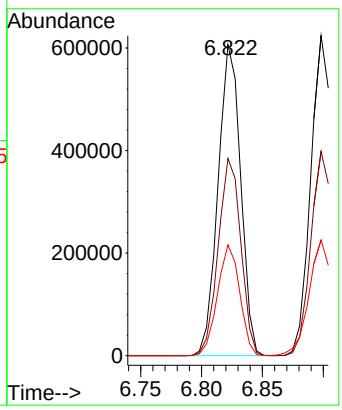
Tgt Ion:146 Resp: 78320

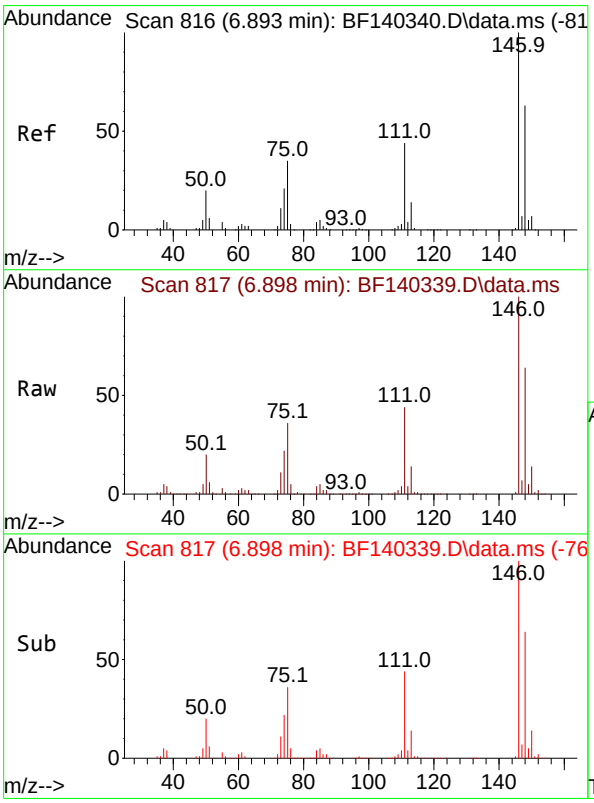
Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.7	76.1
75	35.6	26.4	39.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

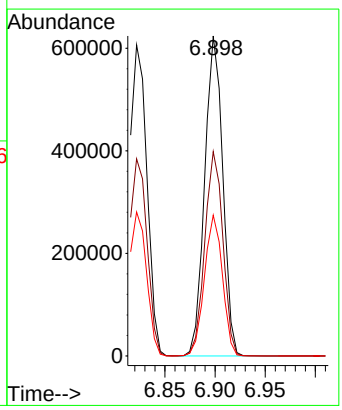


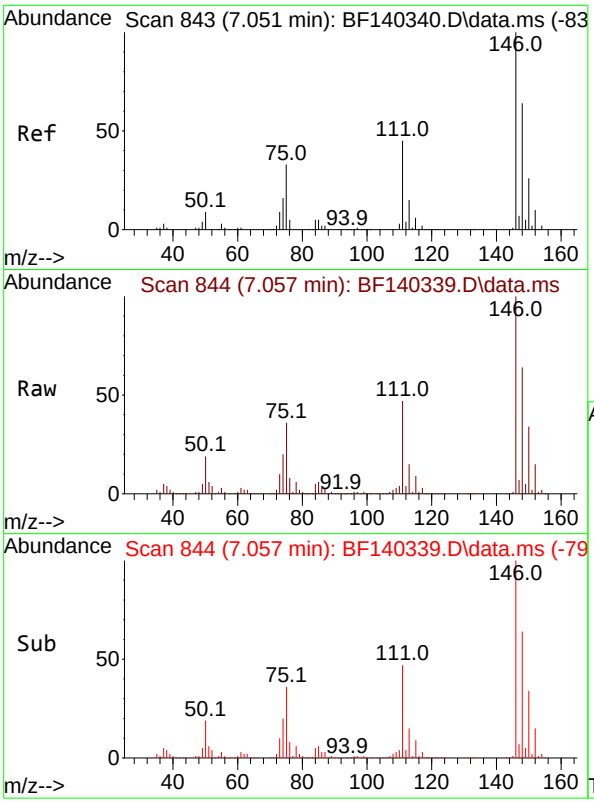


#13
1,4-Dichlorobenzene
Concen: 69.404 ng
RT: 6.898 min Scan# 817
Delta R.T. -0.000 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:146 Resp: 783319

Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.8	76.2
111	44.0	34.2	51.2

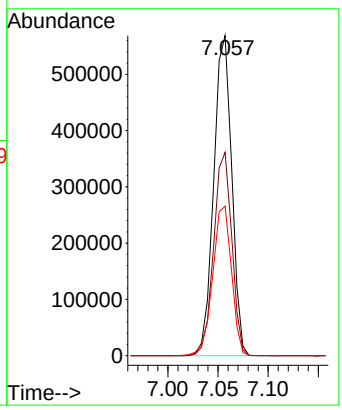




#14
1,2-Dichlorobenzene
Concen: 67.802 ng
RT: 7.057 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:146 Resp: 710399

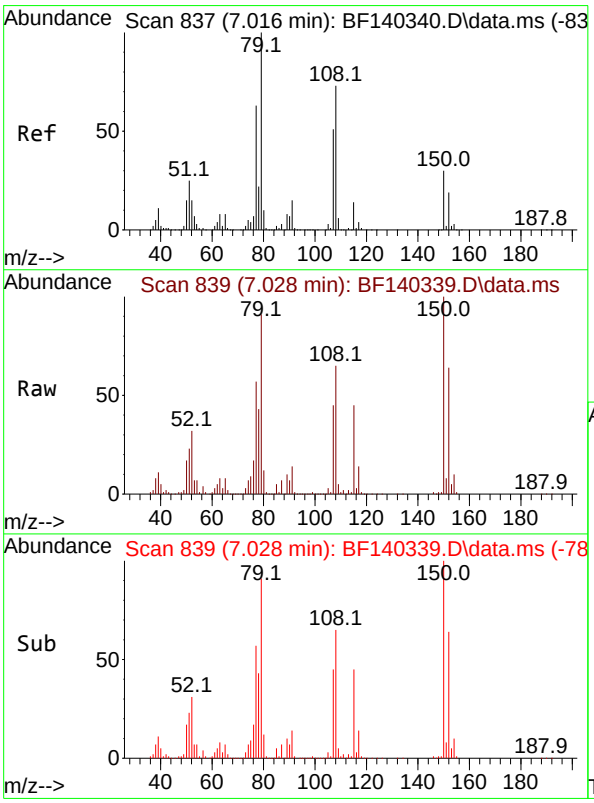
Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.2	76.8
111	46.7	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

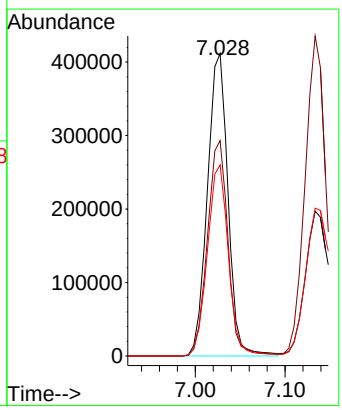
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

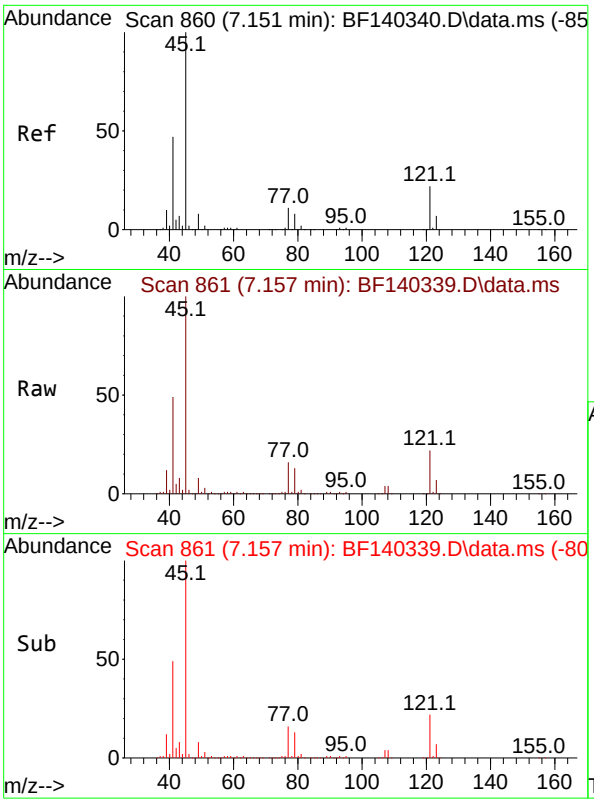


#15
Benzyl Alcohol
Concen: 71.389 ng
RT: 7.028 min Scan# 839
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 79 Resp: 654439

Ion	Ratio	Lower	Upper
79	100		
108	71.2	57.8	86.6
77	63.1	49.8	74.6





#16
2,2'-oxybis(1-Chloropropane)
Concen: 70.738 ng
RT: 7.157 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

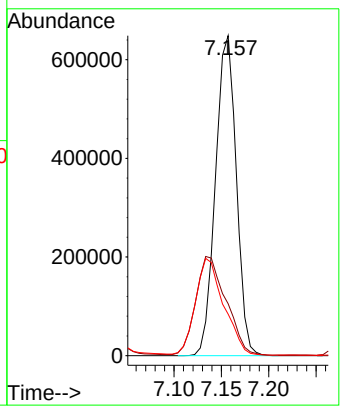
Tgt Ion: 45 Resp: 99340

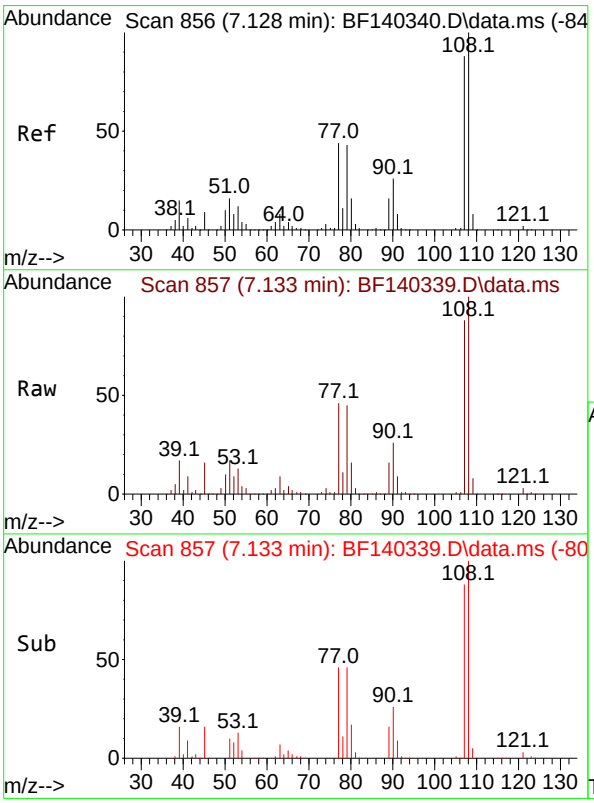
Ion	Ratio	Lower	Upper
45	100		
77	16.2	0.0	34.8
79	13.0	0.0	31.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

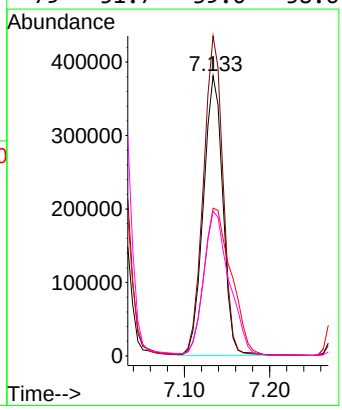


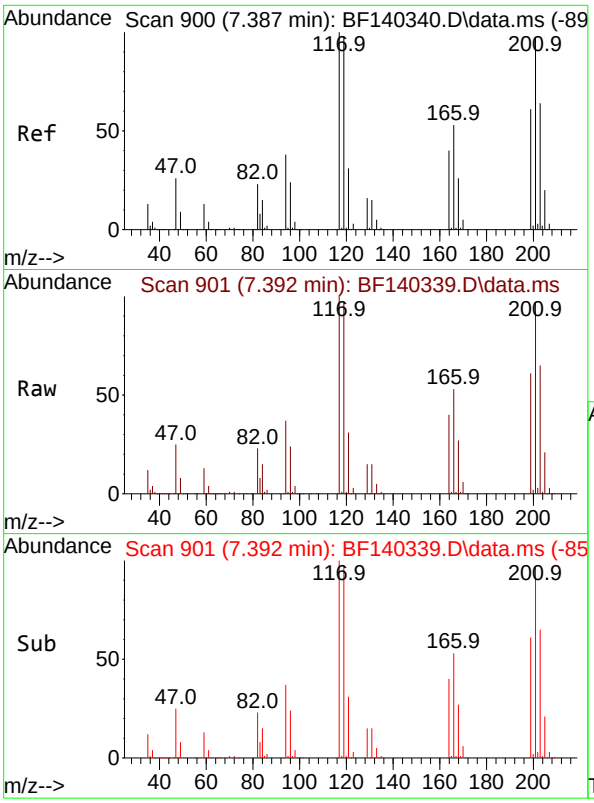


#17
2-Methylphenol
Concen: 72.829 ng
RT: 7.133 min Scan# 857
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:107 Resp: 604396

Ion	Ratio	Lower	Upper
107	100		
108	114.2	91.9	137.9
77	52.8	39.7	59.5
79	51.7	39.0	58.6

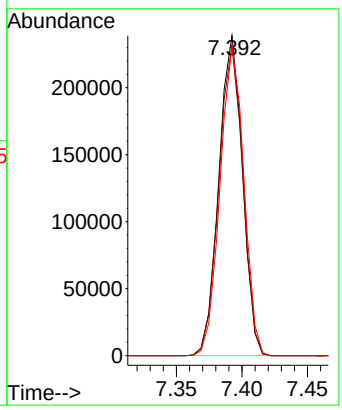




#18
Hexachloroethane
Concen: 71.979 ng
RT: 7.392 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:117 Resp: 30032

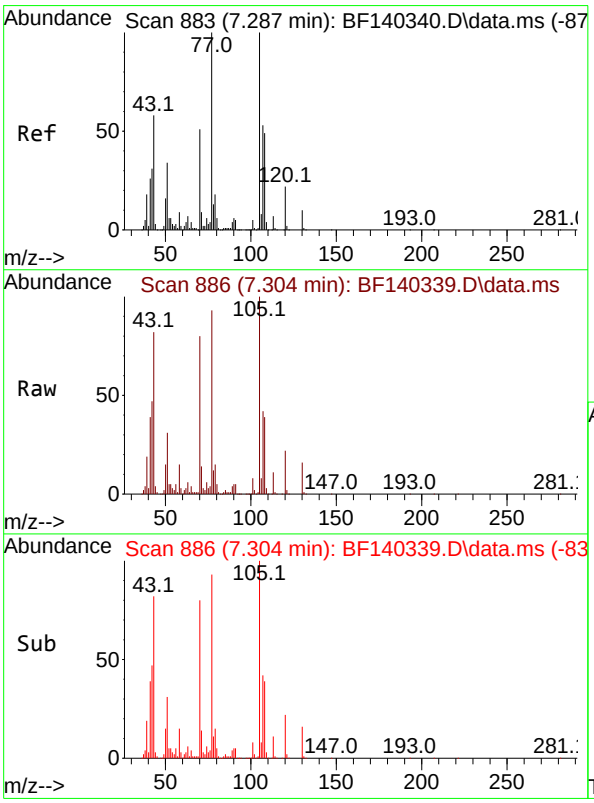
Ion	Ratio	Lower	Upper
117	100		
119	96.9	76.9	115.3
201	96.7	80.2	120.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

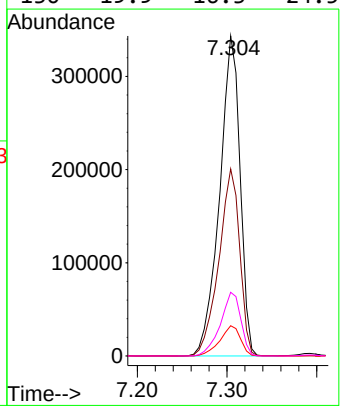
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

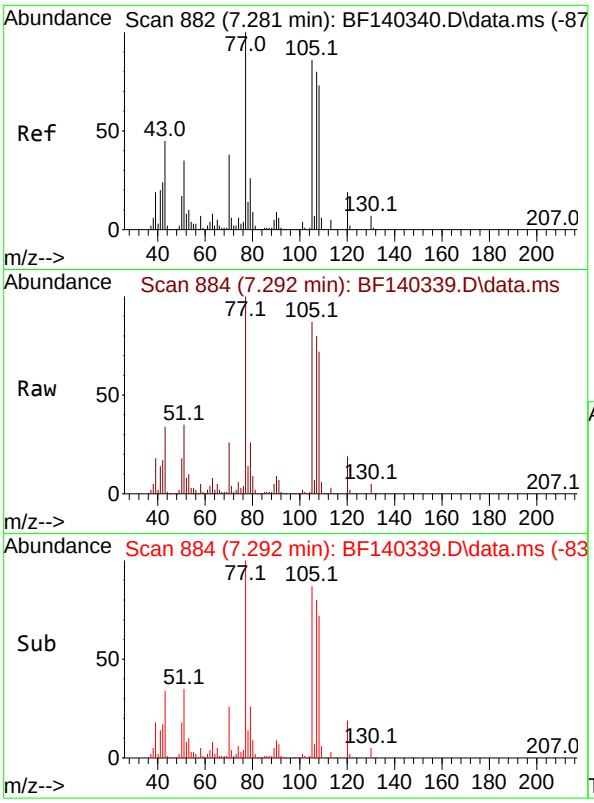


#19
n-Nitroso-di-n-propylamine
Concen: 70.790 ng
RT: 7.304 min Scan# 886
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 70 Resp: 543998

Ion	Ratio	Lower	Upper
70	100		
42	58.5	46.8	70.2
101	9.4	7.5	11.3
130	19.9	16.3	24.5

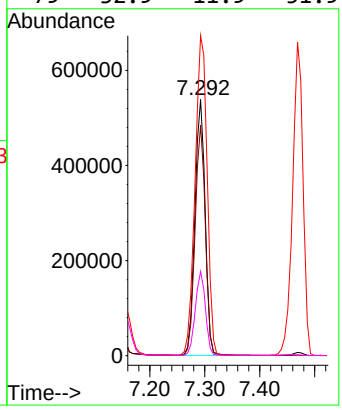




#20
3+4-Methylphenols
Concen: 67.394 ng
RT: 7.292 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:107 Resp: 69945

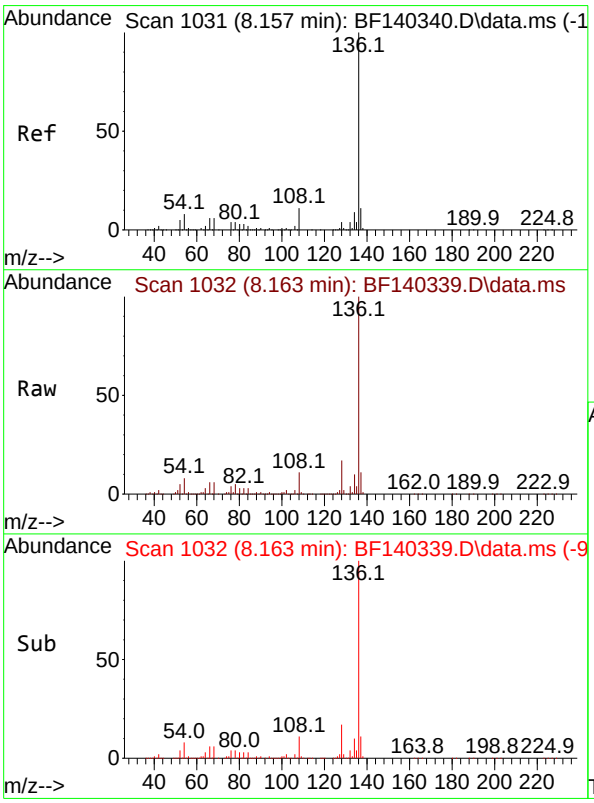
Ion	Ratio	Lower	Upper
107	100		
108	90.0	71.4	111.4
77	125.0	97.0	137.0
79	32.9	11.9	51.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

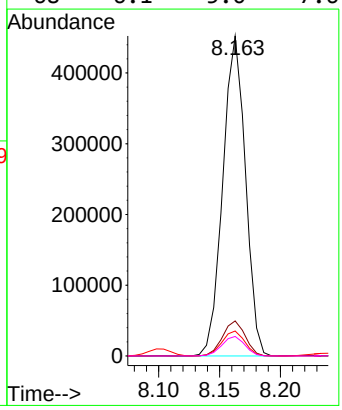
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

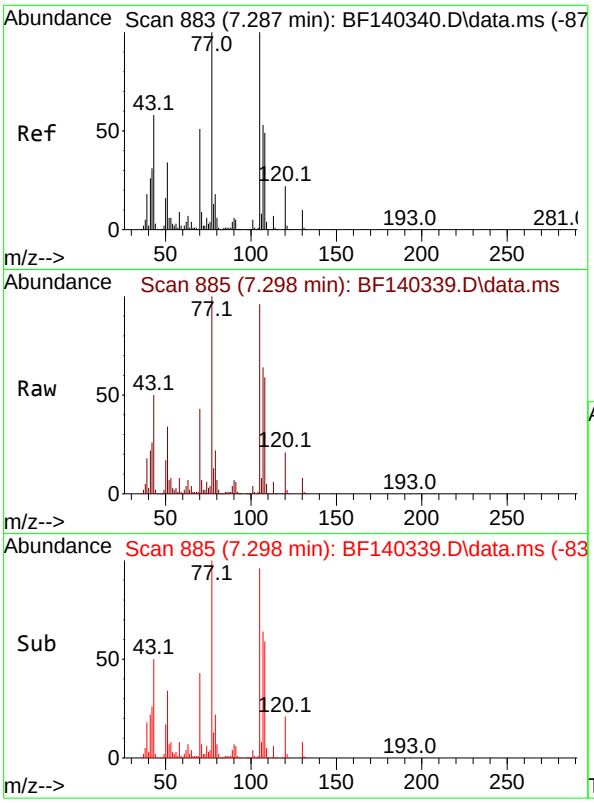


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:136 Resp: 586224

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	7.8	6.5	9.7
68	6.1	5.0	7.6

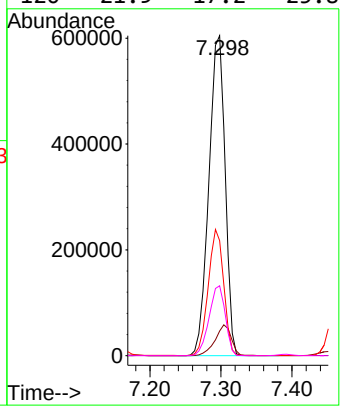




#22
Acetophenone
Concen: 70.637 ng
RT: 7.298 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:105 Resp: 96309

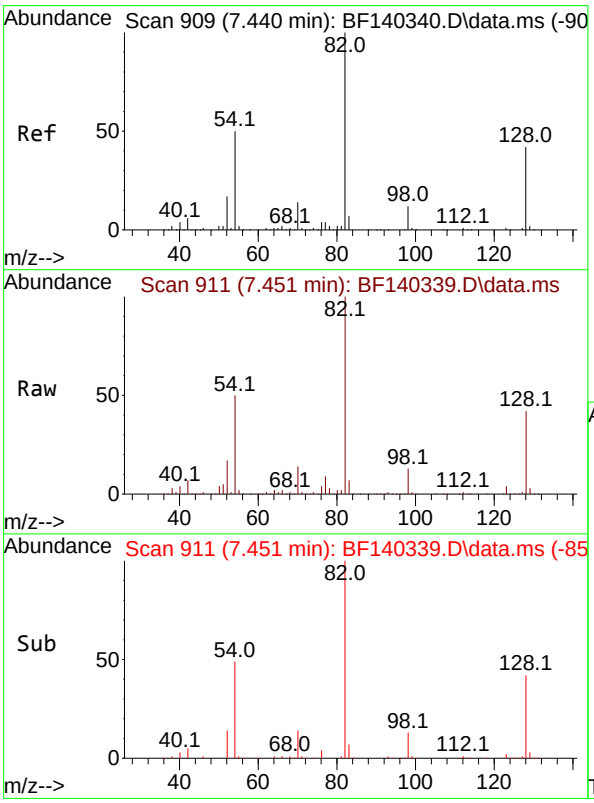
Ion	Ratio	Lower	Upper
105	100		
71	7.7	6.9	10.3
51	36.0	28.6	43.0
120	21.9	17.2	25.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

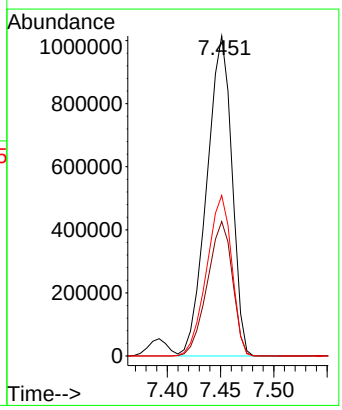
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

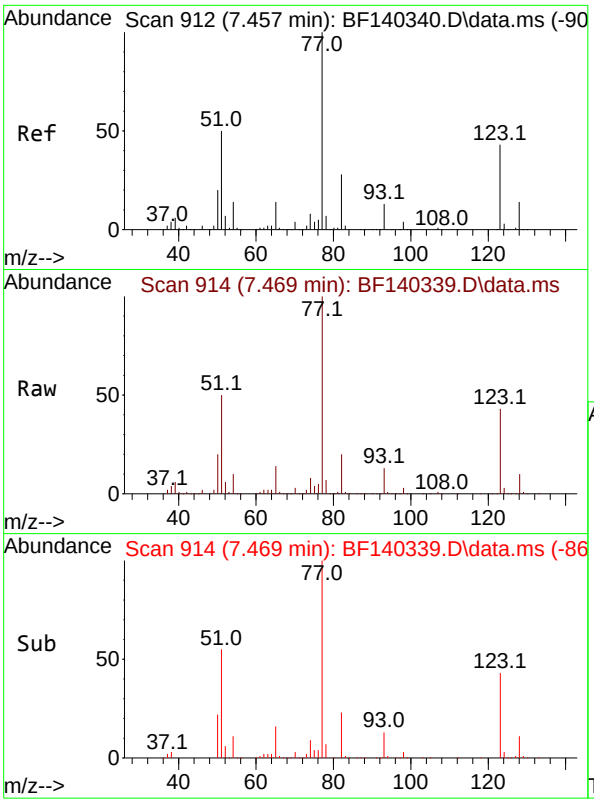


#23
Nitrobenzene-d5
Concen: 147.640 ng
RT: 7.451 min Scan# 911
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 82 Resp: 1661144

Ion	Ratio	Lower	Upper
82	100		
128	42.0	33.3	49.9
54	50.1	39.8	59.8

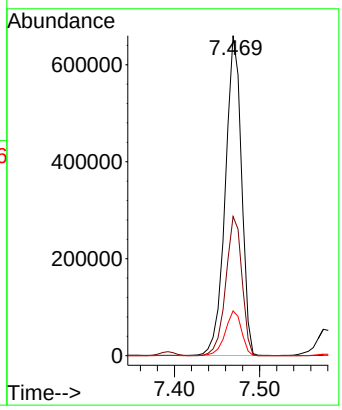




#24
Nitrobenzene
Concen: 74.350 ng
RT: 7.469 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 77 Resp: 87097

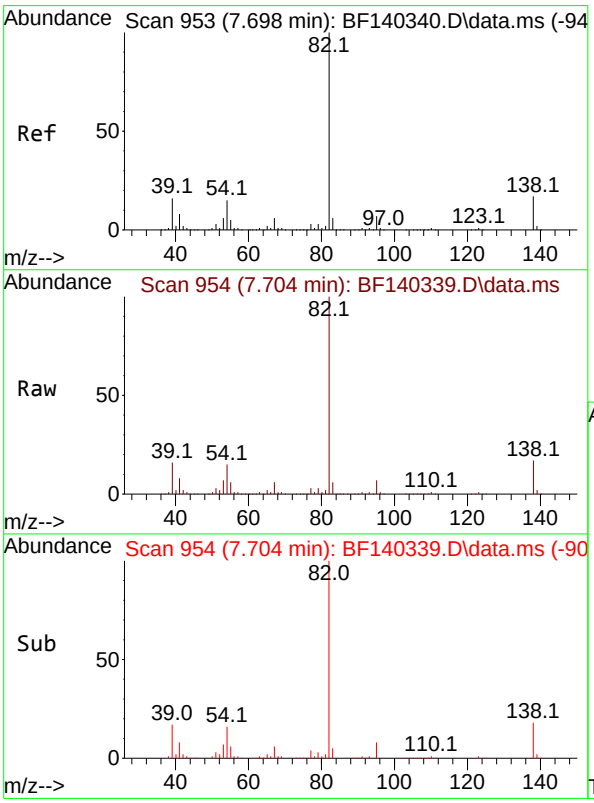
Ion	Ratio	Lower	Upper
77	100		
123	43.5	35.4	53.0
65	14.0	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

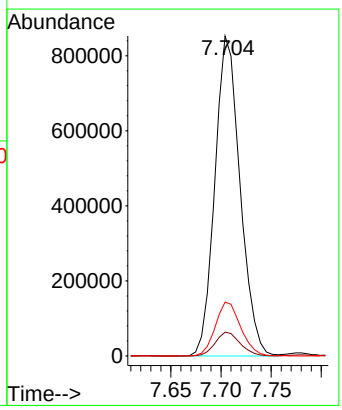
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

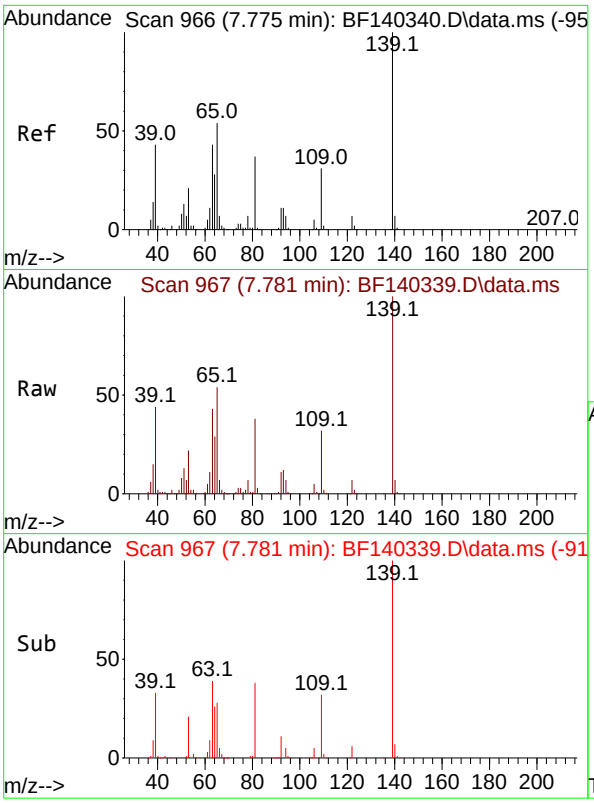


#25
Isophorone
Concen: 74.586 ng
RT: 7.704 min Scan# 954
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 82 Resp: 1487295

Ion	Ratio	Lower	Upper
82	100		
95	7.5	5.9	8.9
138	16.9	13.4	20.2





#26
2-Nitrophenol
Concen: 77.328 ng
RT: 7.781 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

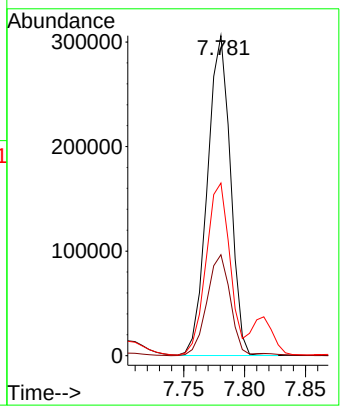
Tgt Ion:139 Resp: 40198

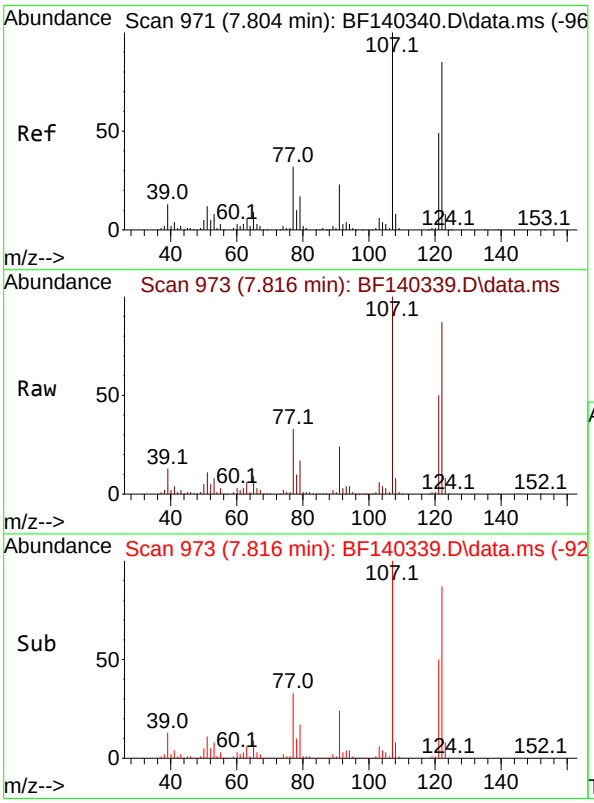
Ion	Ratio	Lower	Upper
139	100		
109	31.5	24.4	36.6
65	53.9	42.8	64.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

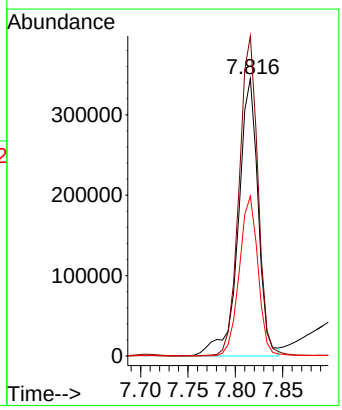


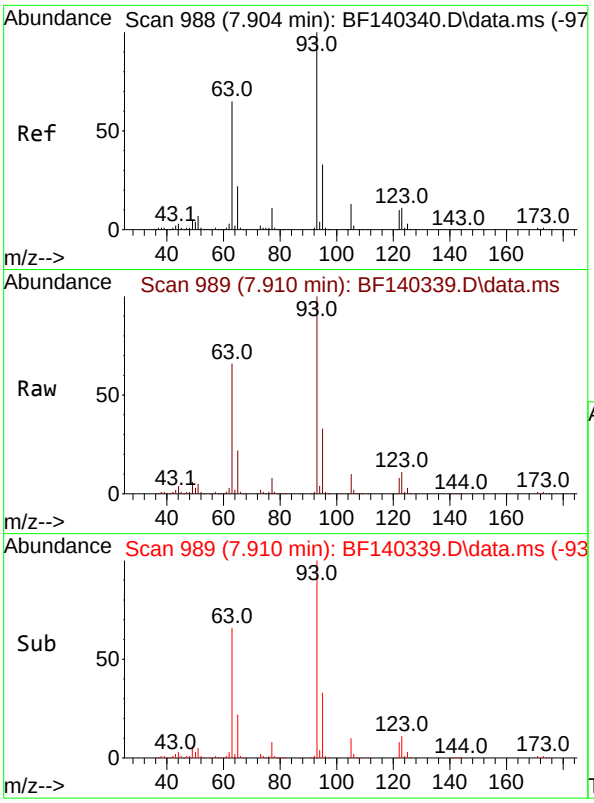


#27
2,4-Dimethylphenol
Concen: 75.234 ng
RT: 7.816 min Scan# 973
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:122 Resp: 500708

Ion	Ratio	Lower	Upper
122	100		
107	115.4	91.3	136.9
121	57.6	45.5	68.3





#28
bis(2-Chloroethoxy)methane
Concen: 72.597 ng
RT: 7.910 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

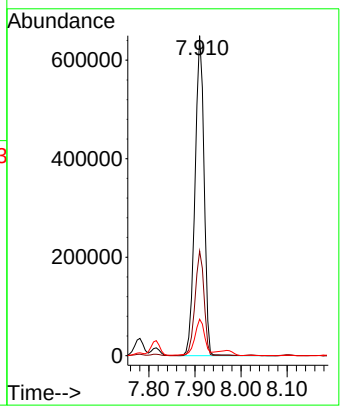
Tgt Ion: 93 Resp: 88765

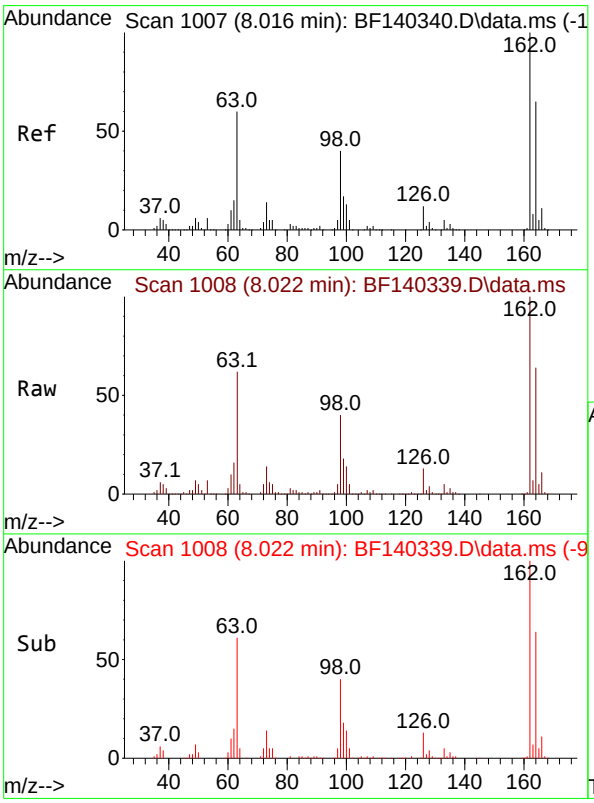
Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.9	38.9
123	11.4	9.2	13.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

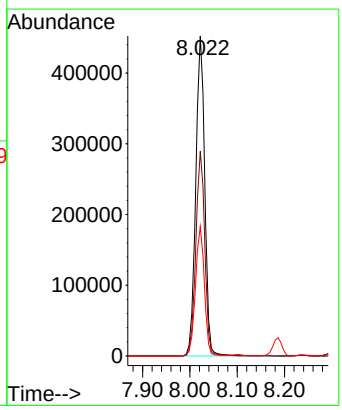


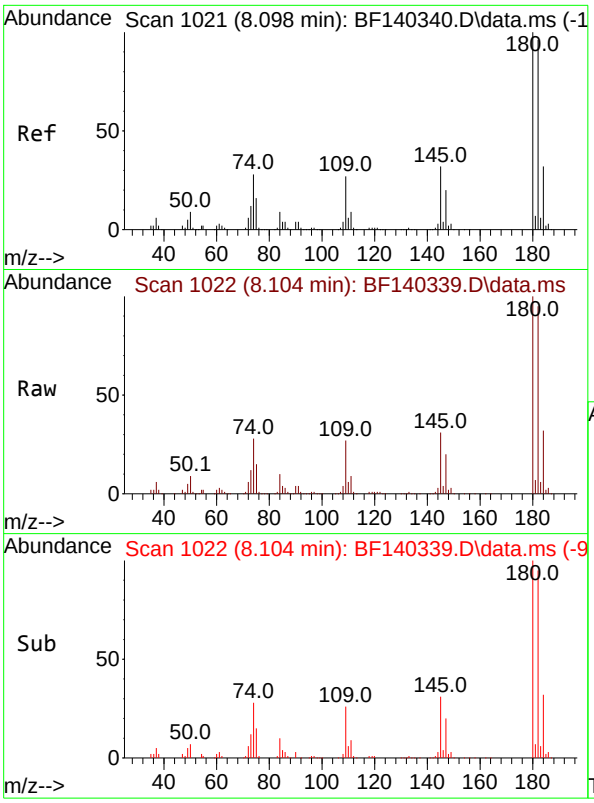


#29
2,4-Dichlorophenol
Concen: 72.647 ng
RT: 8.022 min Scan# 1008
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:162 Resp: 597530

Ion	Ratio	Lower	Upper
162	100		
164	64.0	45.4	85.4
98	40.4	19.9	59.9

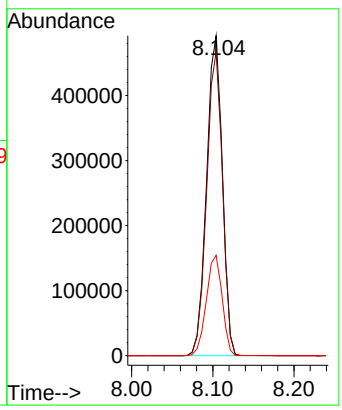




#30
1,2,4-Trichlorobenzene
Concen: 72.454 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:180 Resp: 66347

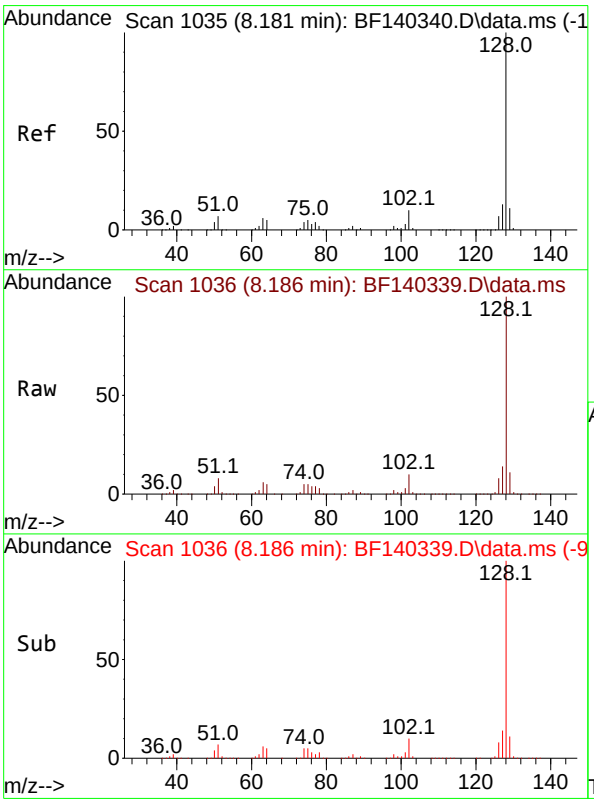
Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.5	114.7
145	31.4	25.3	37.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

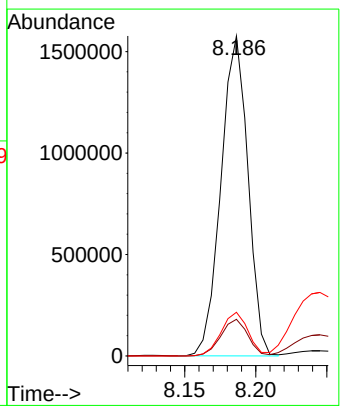
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

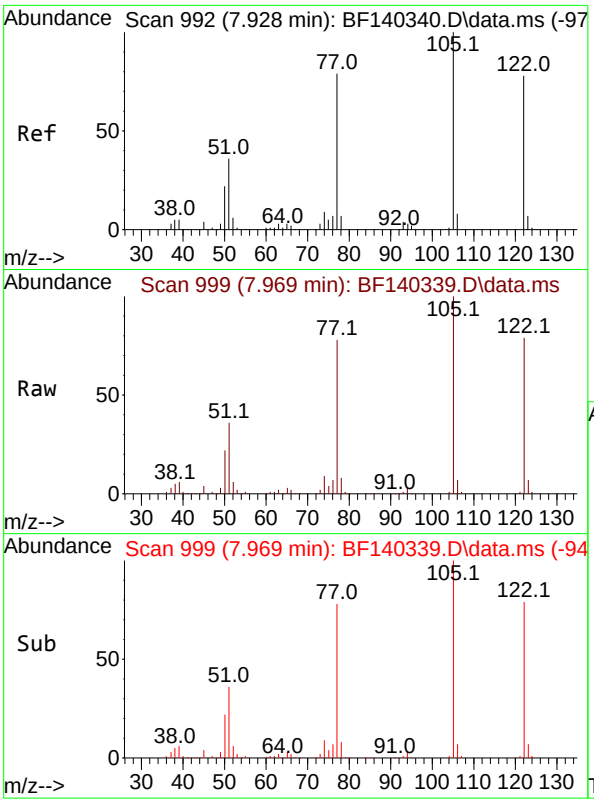


#31
Naphthalene
Concen: 69.842 ng
RT: 8.186 min Scan# 1036
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:128 Resp: 2076967

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.9	13.3
127	13.7	10.6	15.8

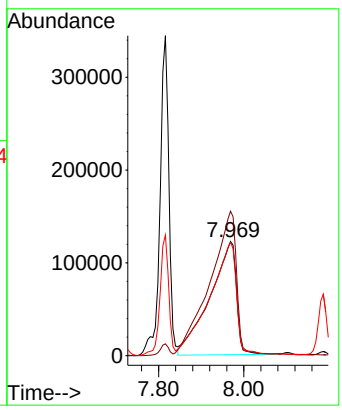




#32
Benzoic acid
Concen: 90.483 ng
RT: 7.969 min Scan# 9
Delta R.T. 0.041 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:122 Resp: 52900

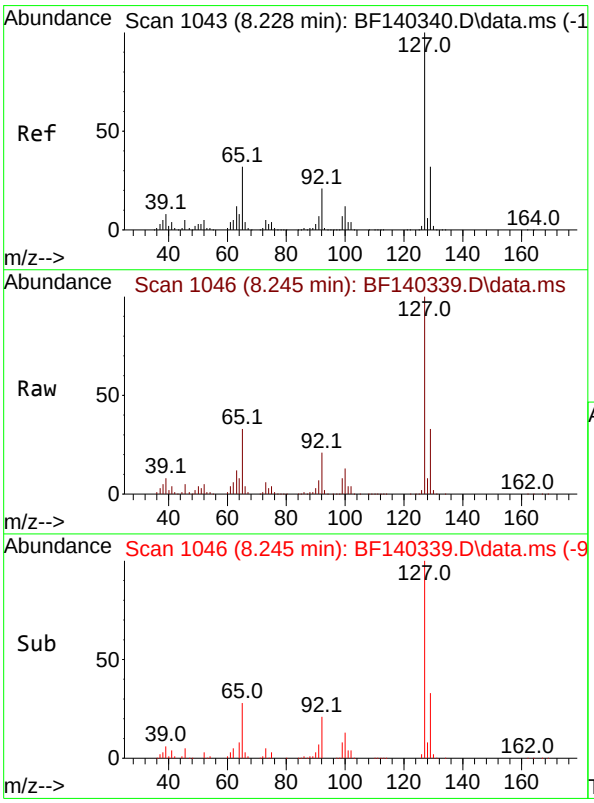
Ion	Ratio	Lower	Upper
122	100		
105	126.5	100.9	140.9
77	99.3	76.0	116.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

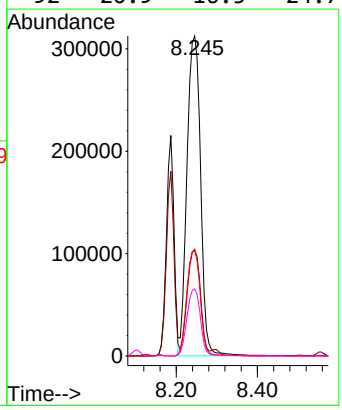
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

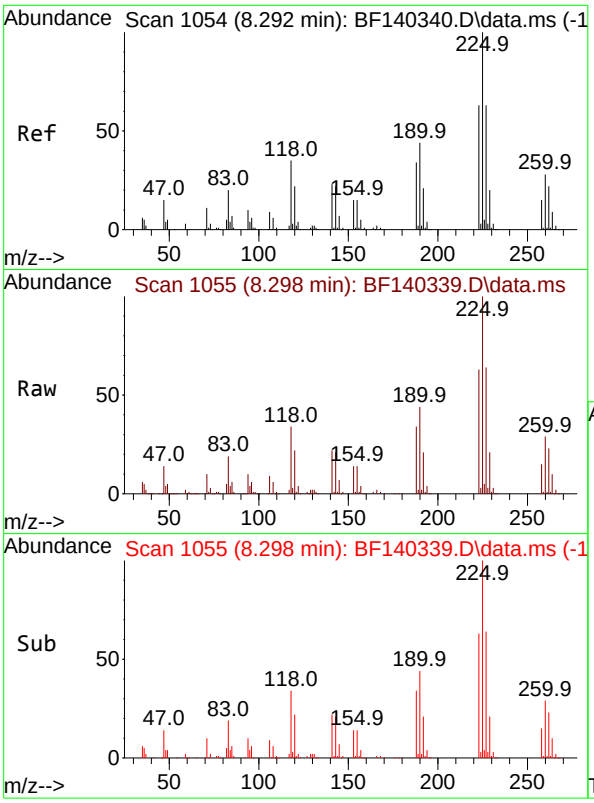


#33
4-Chloroaniline
Concen: 70.572 ng
RT: 8.245 min Scan# 1046
Delta R.T. 0.017 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:127 Resp: 729859

Ion	Ratio	Lower	Upper
127	100		
129	33.4	26.2	39.4
65	32.7	25.8	38.6
92	20.9	16.5	24.7





#34
Hexachlorobutadiene
Concen: 71.513 ng
RT: 8.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

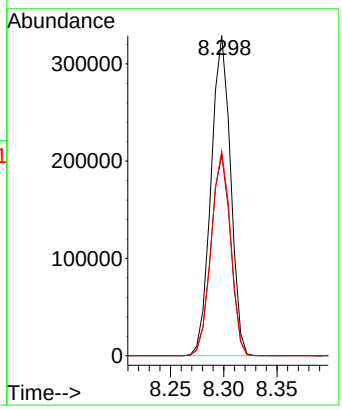
Tgt Ion:225 Resp: 41724

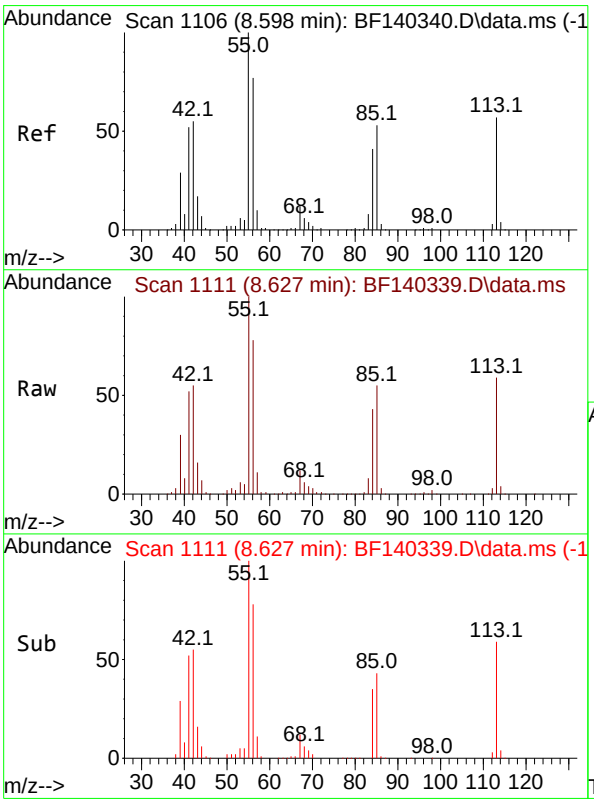
Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.1	75.1
227	63.9	51.3	76.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

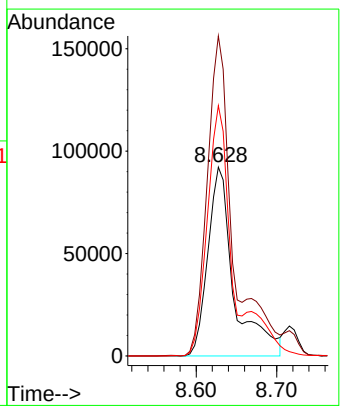


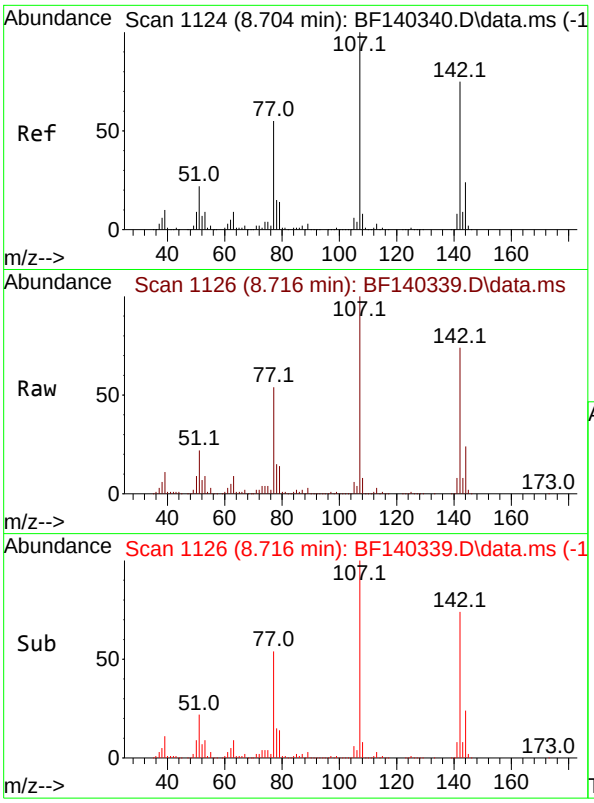


#35
Caprolactam
Concen: 75.344 ng m
RT: 8.627 min Scan# 1111
Delta R.T. 0.029 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:113 Resp: 208353

Ion	Ratio	Lower	Upper
113	100		
55	169.5	150.0	190.0
56	132.5	111.1	151.1





#36
4-Chloro-3-methylphenol
Concen: 73.742 ng
RT: 8.716 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

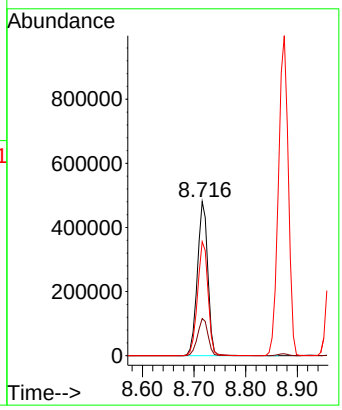
Tgt Ion:107 Resp: 67216

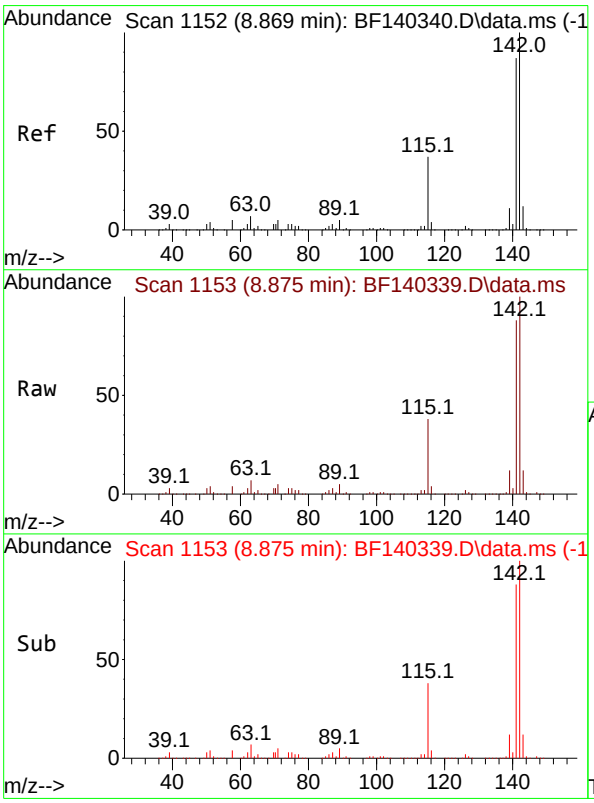
Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.3	28.9
142	74.0	59.4	89.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

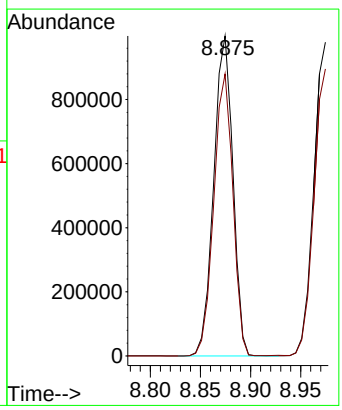


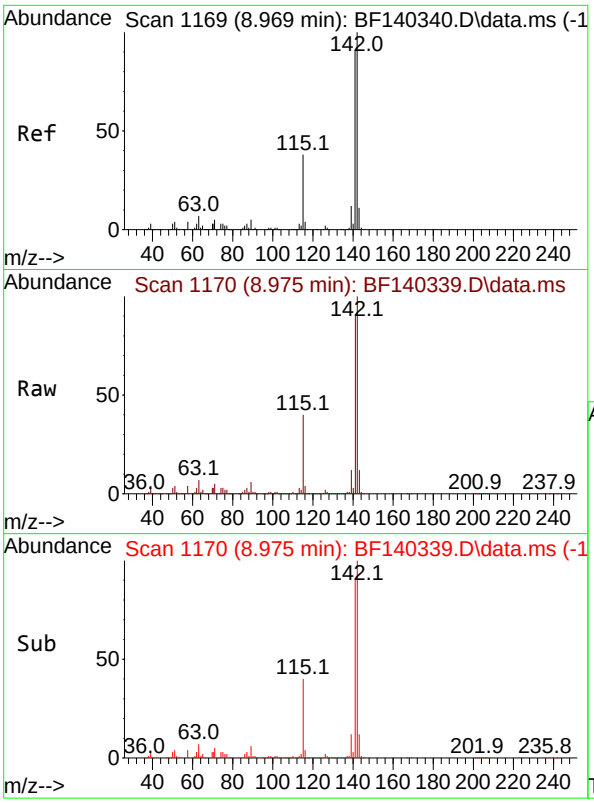


#37
2-Methylnaphthalene
Concen: 69.428 ng
RT: 8.875 min Scan# 1153
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:142 Resp: 1323889

Ion	Ratio	Lower	Upper
142	100		
141	88.2	70.4	105.6





#38
1-Methylnaphthalene
Concen: 69.046 ng
RT: 8.975 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

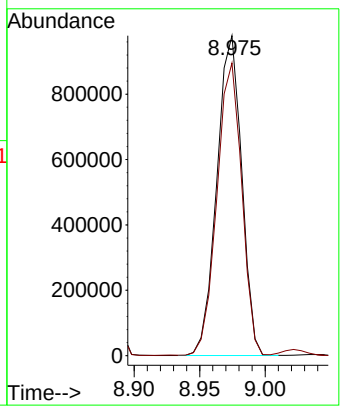
Tgt Ion:142 Resp: 128927

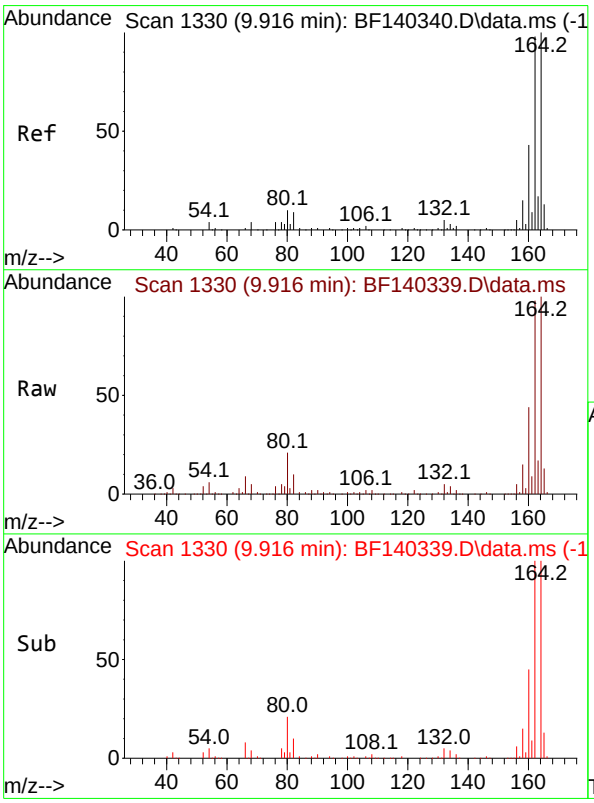
Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.6	110.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

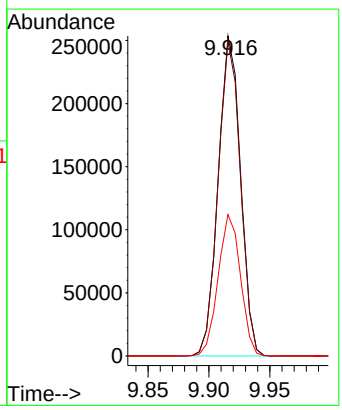


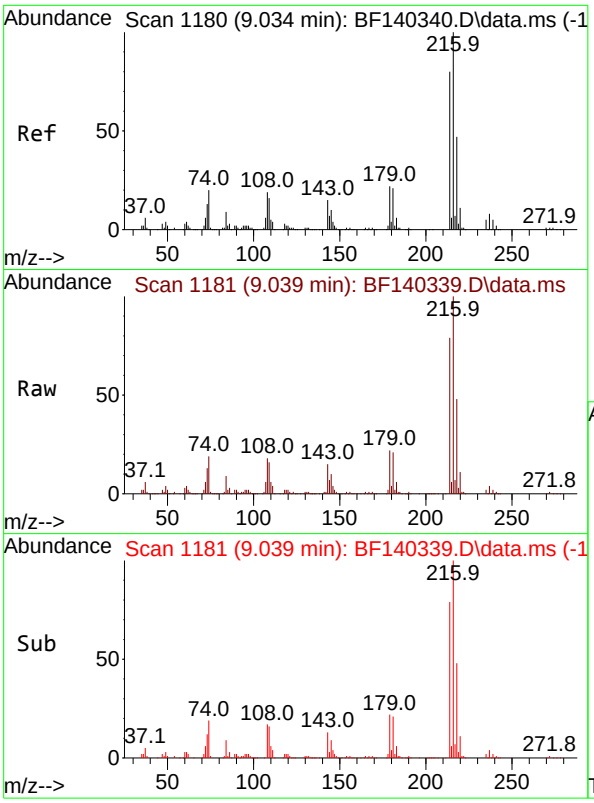


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:164 Resp: 324351

Ion	Ratio	Lower	Upper
164	100		
162	98.3	79.8	119.8
160	44.2	35.4	53.0

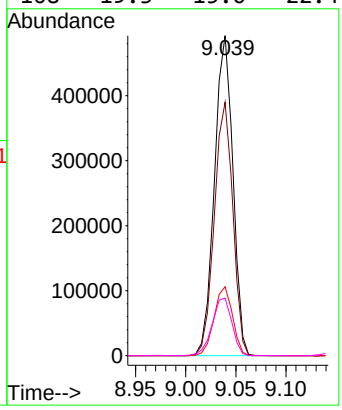




#40
1,2,4,5-Tetrachlorobenzene
Concen: 70.223 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:216 Resp: 62985

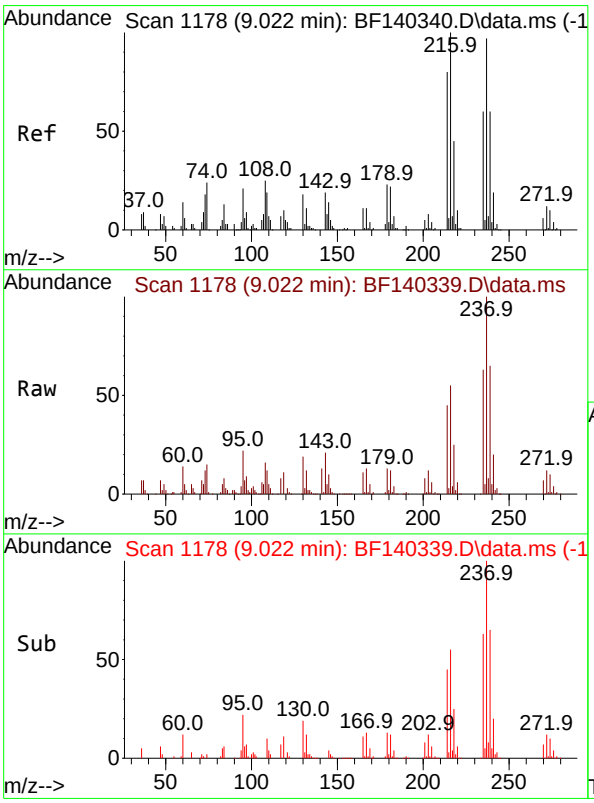
Ion	Ratio	Lower	Upper
216	100		
214	79.4	63.2	94.8
179	21.5	17.2	25.8
108	19.3	15.0	22.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

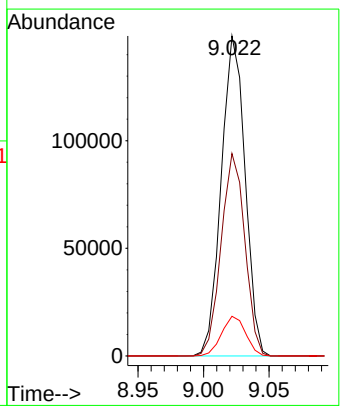
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

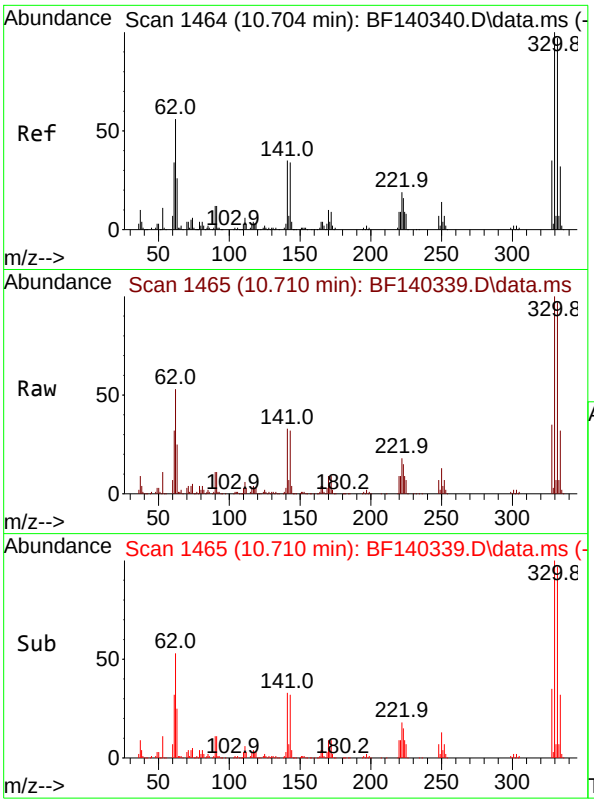


#41
Hexachlorocyclopentadiene
Concen: 81.579 ng
RT: 9.022 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:237 Resp: 187869

Ion	Ratio	Lower	Upper
237	100		
235	63.2	42.8	82.8
272	12.4	0.0	33.1

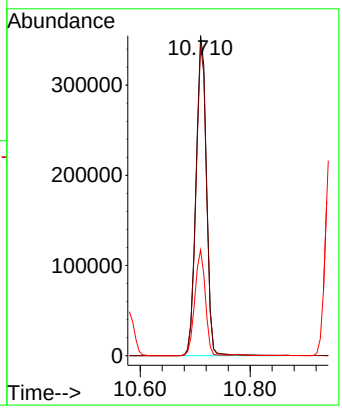




#42
2,4,6-Tribromophenol
Concen: 146.244 ng
RT: 10.710 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:330 Resp: 47169

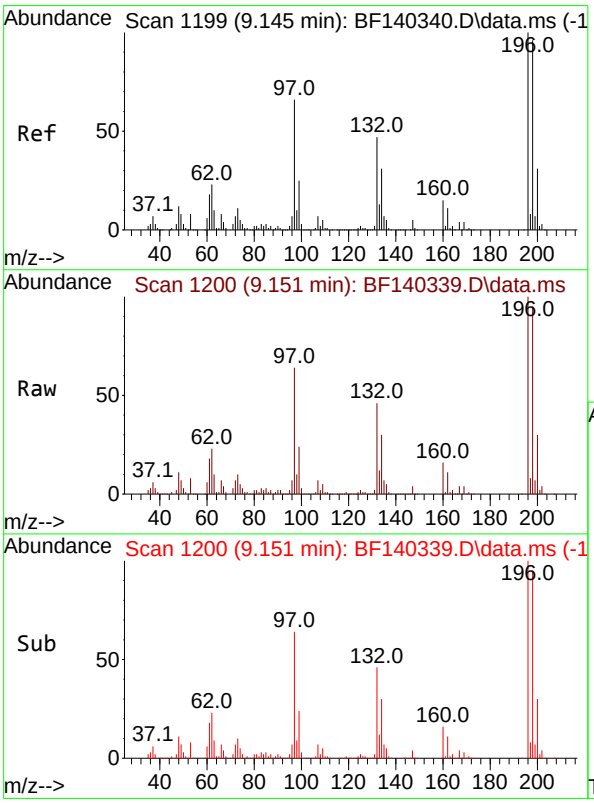
Ion	Ratio	Lower	Upper
330	100		
332	97.1	75.9	113.9
141	32.9	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

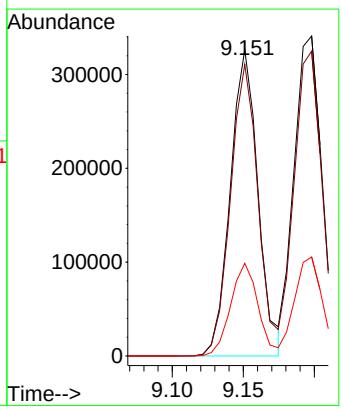
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

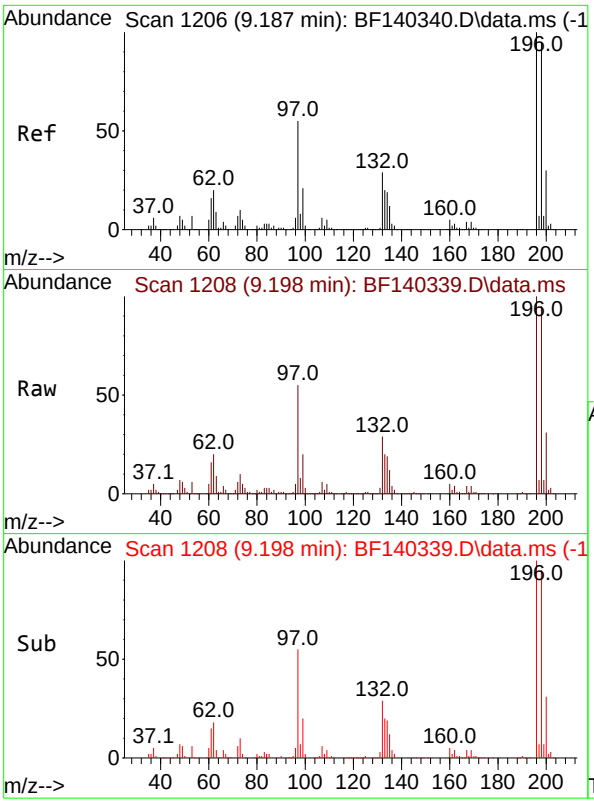


#43
2,4,6-Trichlorophenol
Concen: 75.110 ng
RT: 9.151 min Scan# 1200
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:196 Resp: 442116

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.0	115.4
200	30.2	24.2	36.4

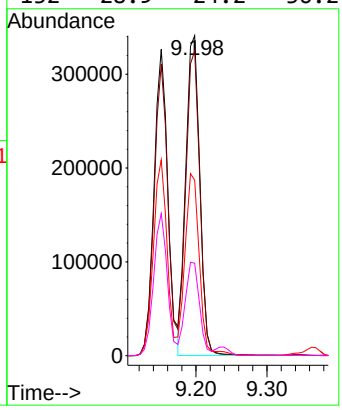




#44
2,4,5-Trichlorophenol
Concen: 72.781 ng
RT: 9.198 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:196 Resp: 46839

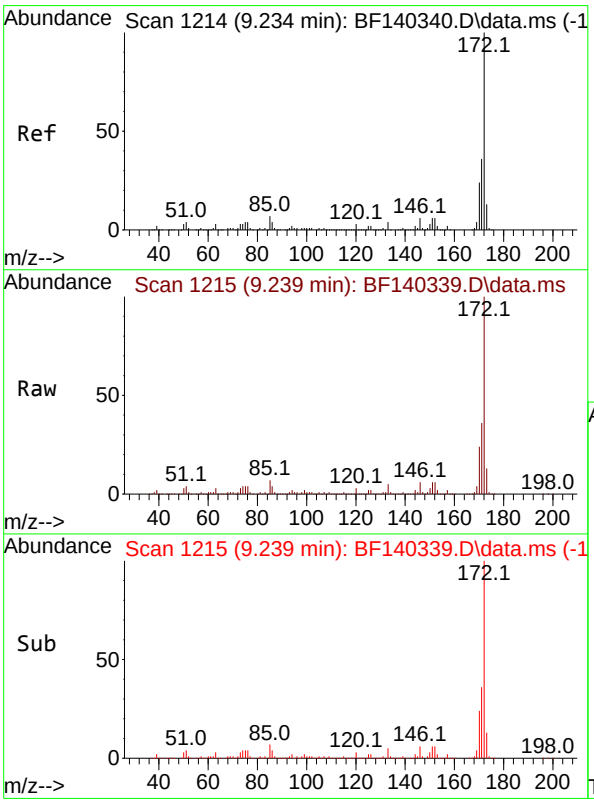
Ion	Ratio	Lower	Upper
196	100		
198	95.3	77.6	116.4
97	54.8	45.4	68.2
132	28.9	24.2	36.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

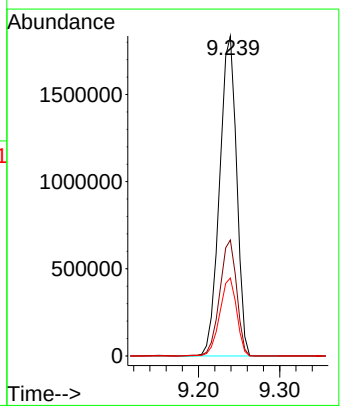
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

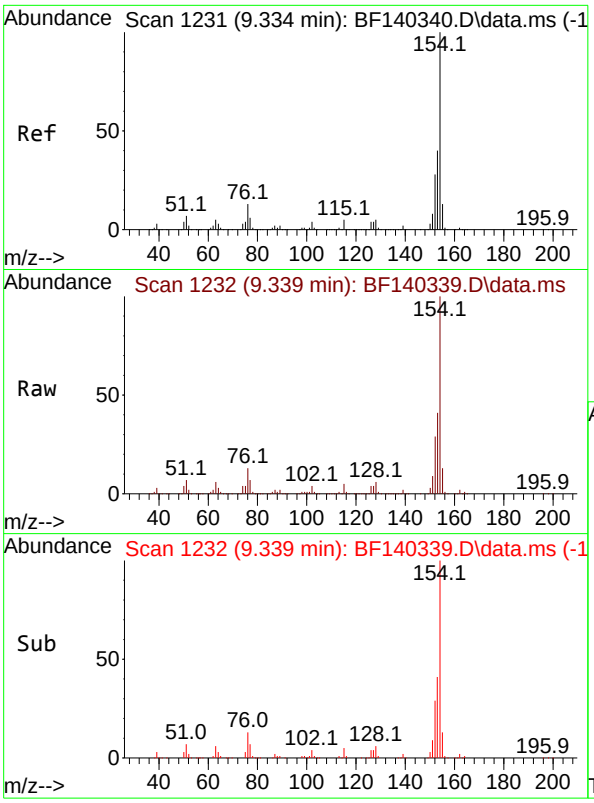


#45
2-Fluorobiphenyl
Concen: 132.597 ng
RT: 9.239 min Scan# 1215
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:172 Resp: 2675376

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.5	42.7
170	24.4	19.1	28.7

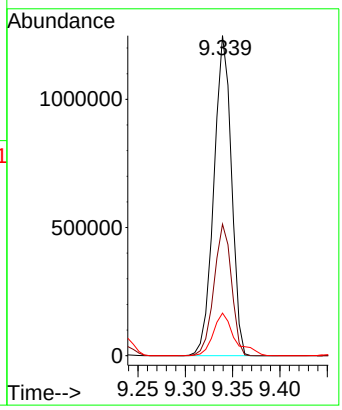




#46
1,1'-Biphenyl
Concen: 68.375 ng
RT: 9.339 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:154 Resp: 161342

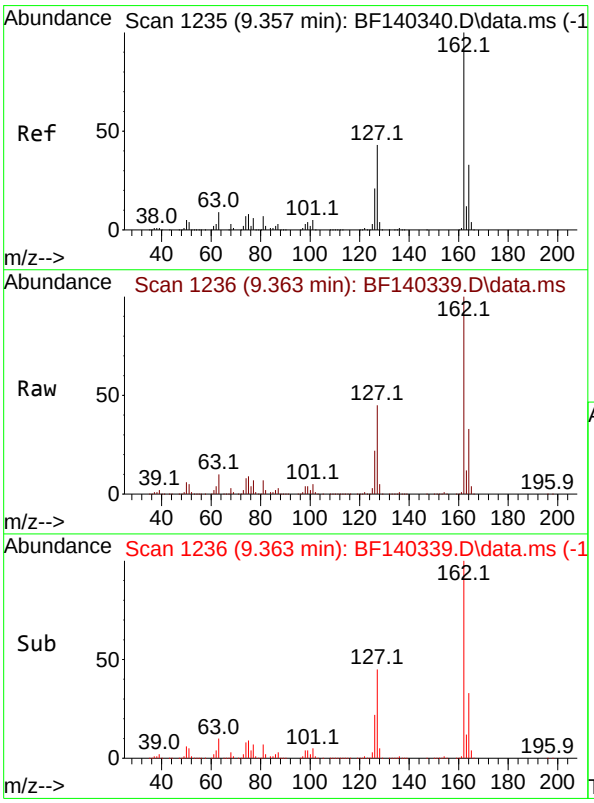
Ion	Ratio	Lower	Upper
154	100		
153	41.1	20.4	60.4
76	13.3	0.0	32.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

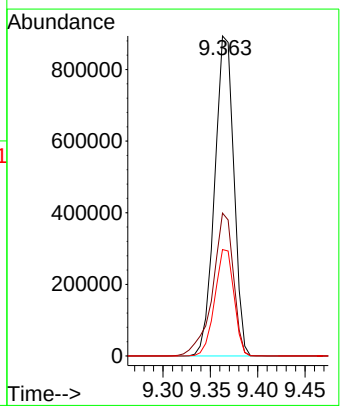
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

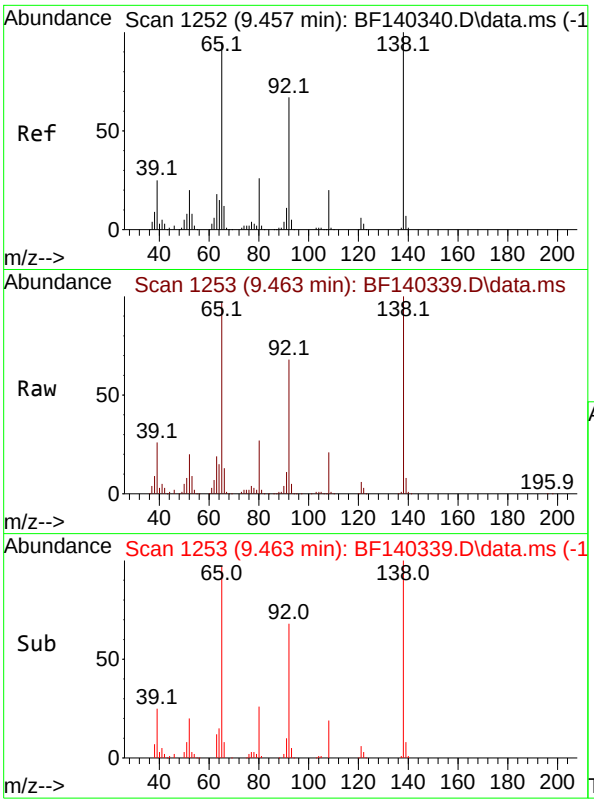


#47
2-Chloronaphthalene
Concen: 70.067 ng
RT: 9.363 min Scan# 1236
Delta R.T. -0.000 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:162 Resp: 1259442

Ion	Ratio	Lower	Upper
162	100		
127	44.7	34.0	51.0
164	33.3	26.5	39.7





#48
2-Nitroaniline
Concen: 76.323 ng
RT: 9.463 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

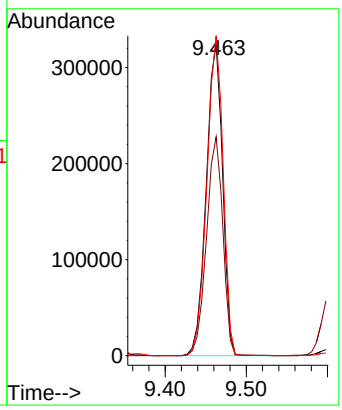
Tgt Ion: 65 Resp: 45497

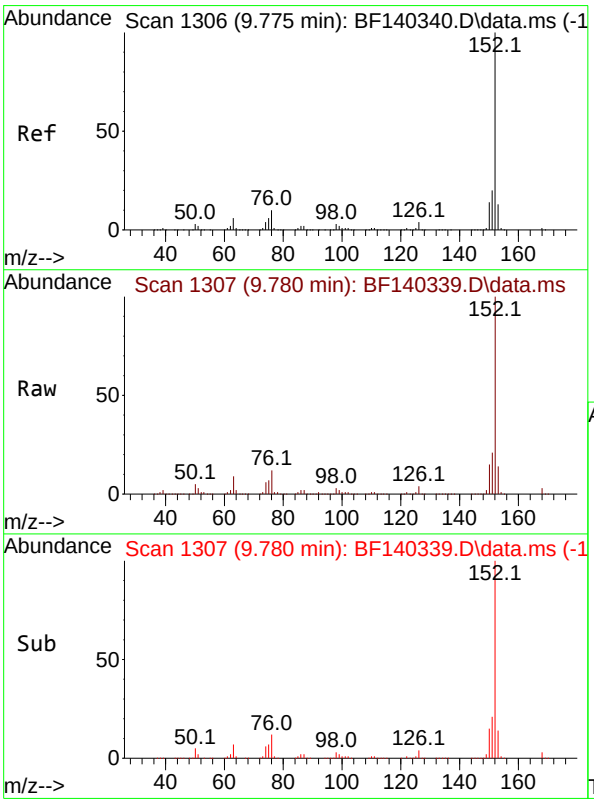
Ion	Ratio	Lower	Upper
65	100		
92	70.2	56.4	84.6
138	102.6	84.8	127.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

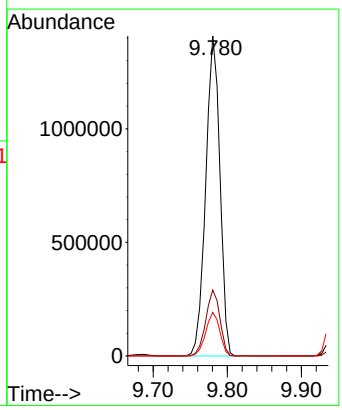


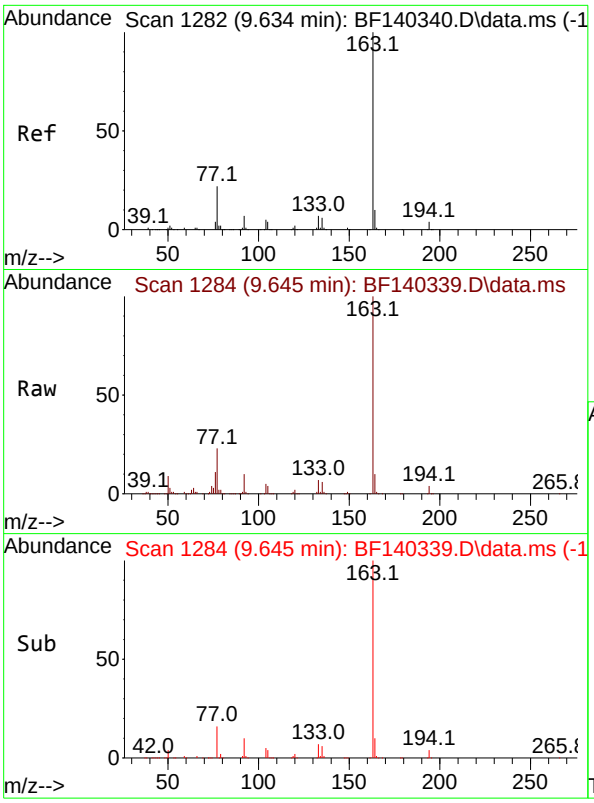


#49
Acenaphthylene
Concen: 68.758 ng
RT: 9.780 min Scan# 1307
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:152 Resp: 1869941

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.1	24.1
153	13.6	10.7	16.1

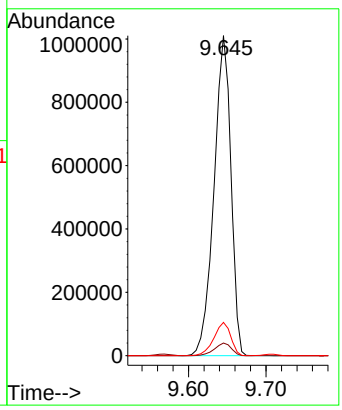




#50
Dimethylphthalate
Concen: 72.473 ng
RT: 9.645 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:163 Resp: 153219

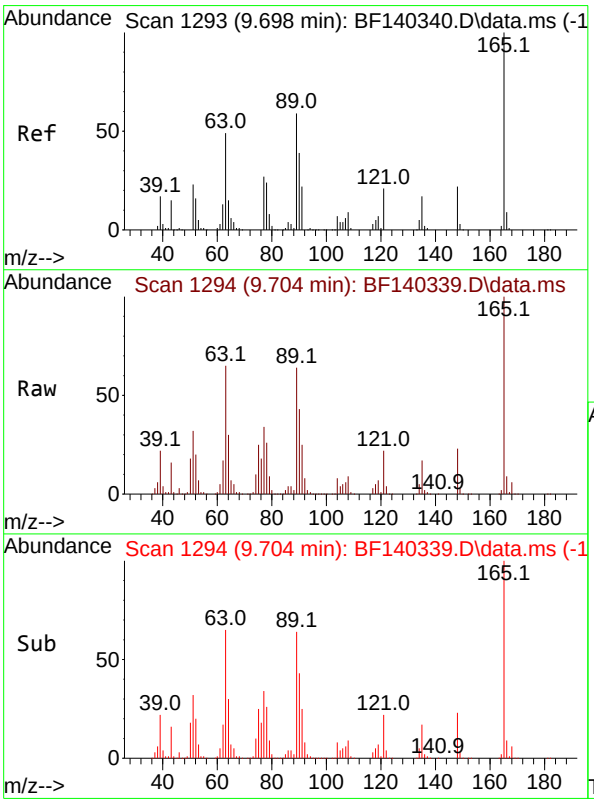
Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.4	8.2	12.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

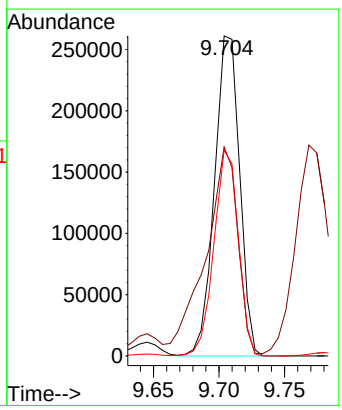
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

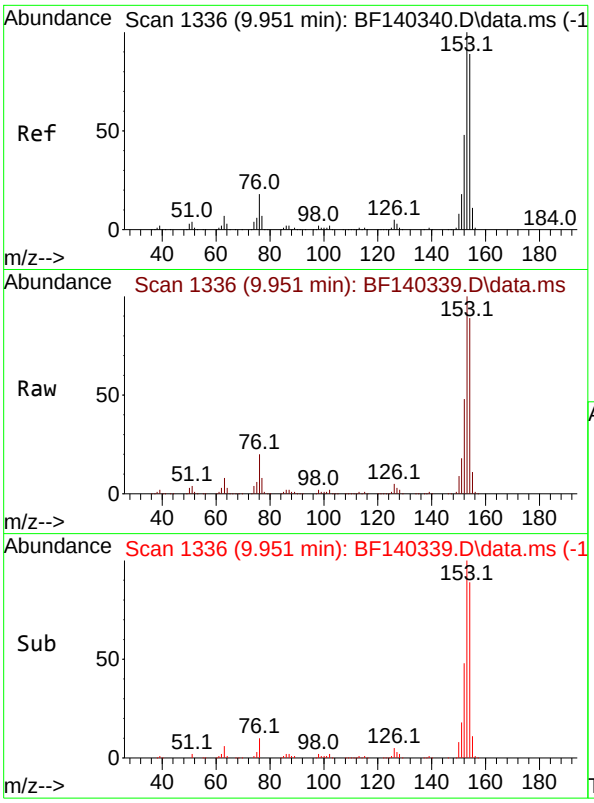


#51
2,6-Dinitrotoluene
Concen: 72.207 ng
RT: 9.704 min Scan# 1294
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:165 Resp: 348019

Ion	Ratio	Lower	Upper
165	100		
63	65.3	47.6	71.4
89	64.3	48.1	72.1

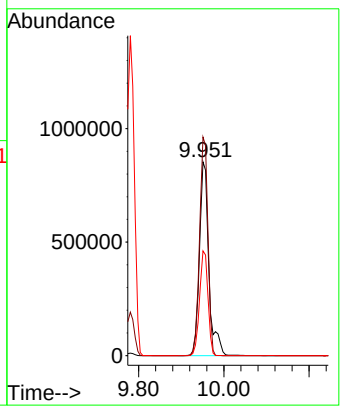




#52
Acenaphthene
Concen: 71.065 ng
RT: 9.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:154 Resp: 130536

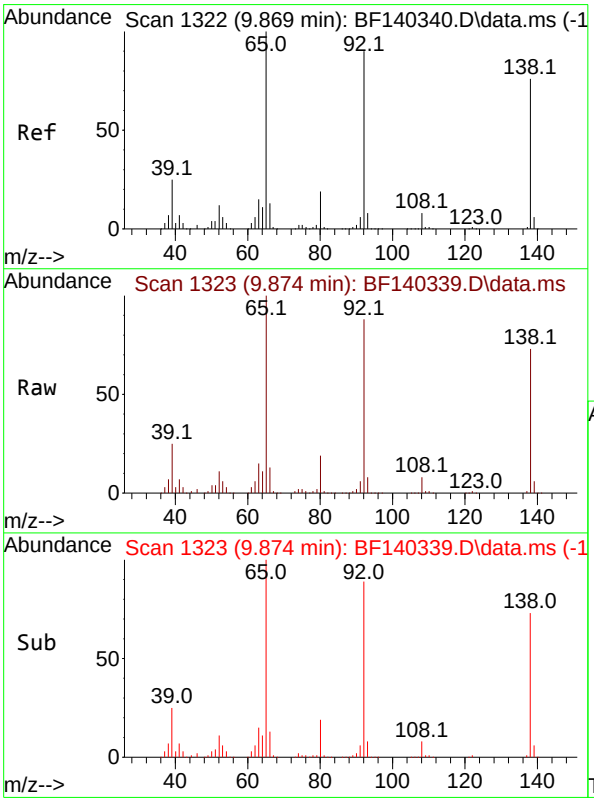
Ion	Ratio	Lower	Upper
154	100		
153	112.8	89.8	134.8
152	54.1	42.6	64.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

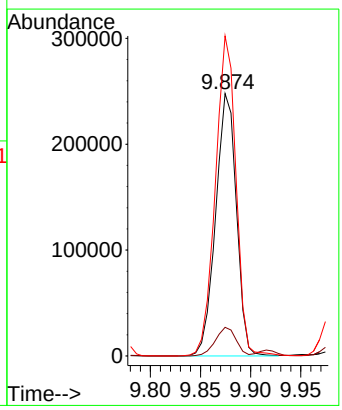
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

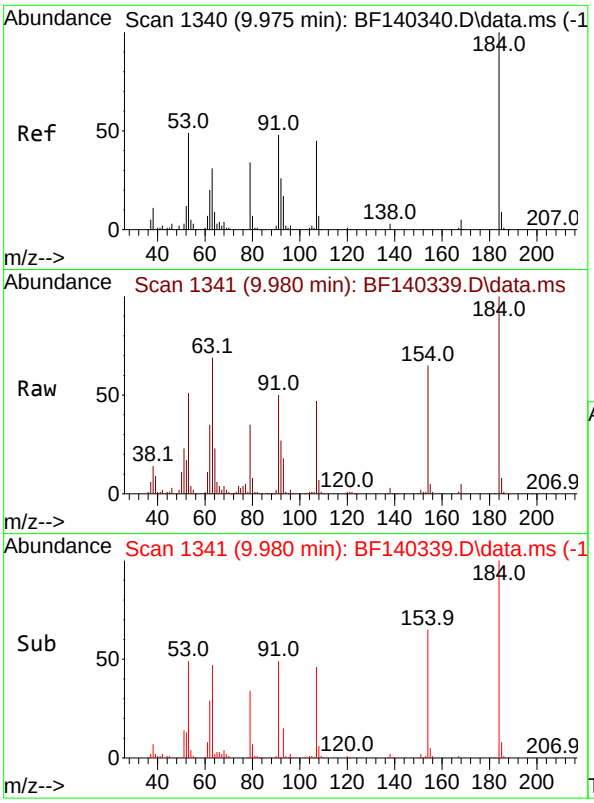


#53
3-Nitroaniline
Concen: 70.369 ng
RT: 9.874 min Scan# 1323
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:138 Resp: 356185

Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.4	12.6
92	121.9	95.5	143.3

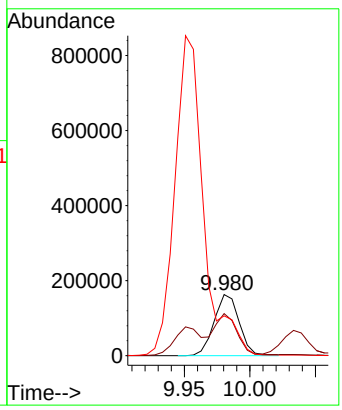




#54
2,4-Dinitrophenol
Concen: 87.514 ng
RT: 9.980 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:184 Resp: 21751

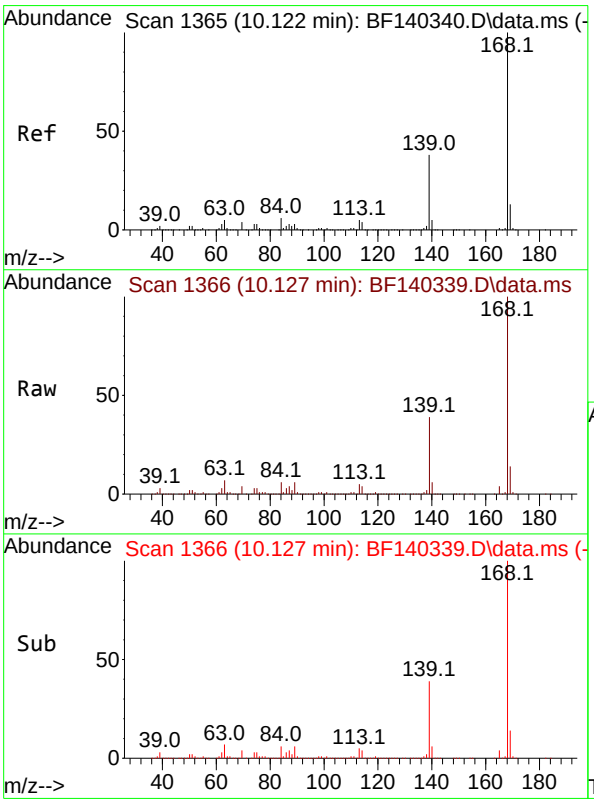
Ion	Ratio	Lower	Upper
184	100		
63	68.8	53.5	80.3
154	65.1	51.3	76.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

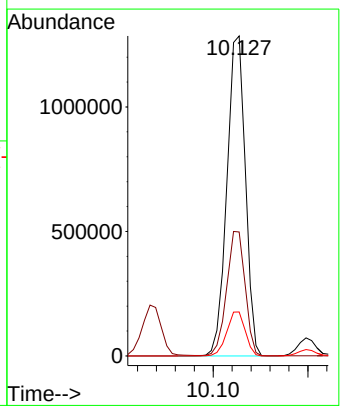
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

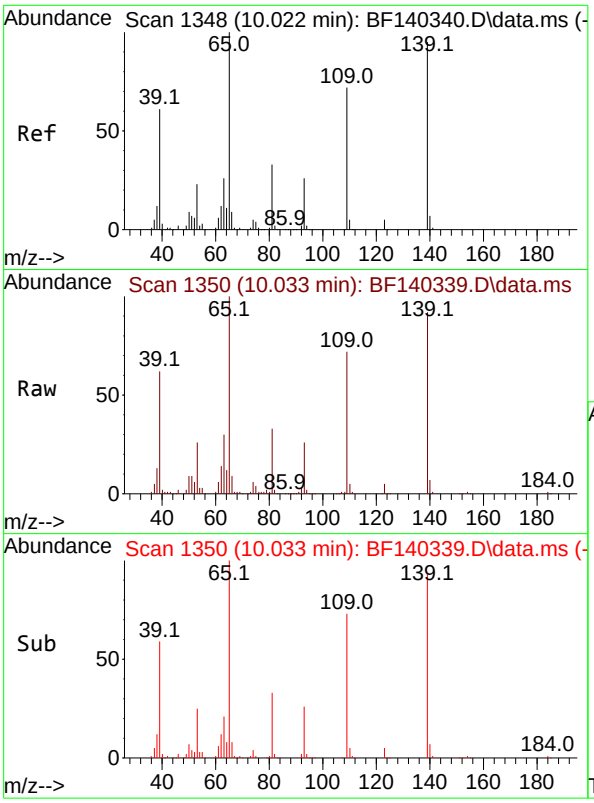


#55
Dibenzofuran
Concen: 67.047 ng
RT: 10.127 min Scan# 1366
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:168 Resp: 1743431

Ion	Ratio	Lower	Upper
168	100		
139	38.7	30.8	46.2
169	13.7	10.8	16.2





#56
4-Nitrophenol
Concen: 79.032 ng
RT: 10.033 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

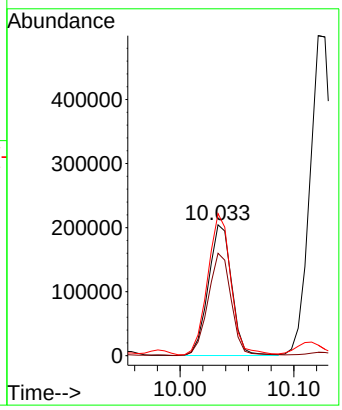
Tgt Ion:139 Resp: 29178

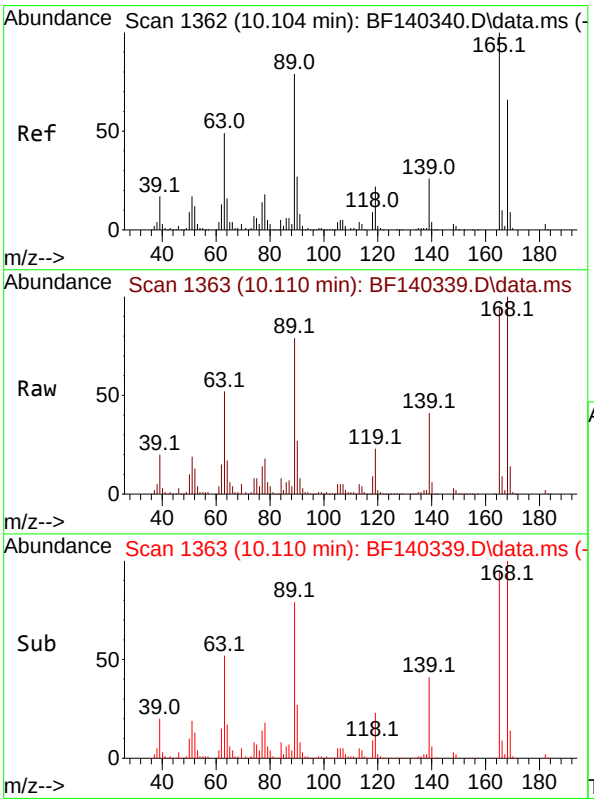
Ion	Ratio	Lower	Upper
139	100		
109	78.3	54.5	94.5
65	108.6	84.4	124.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

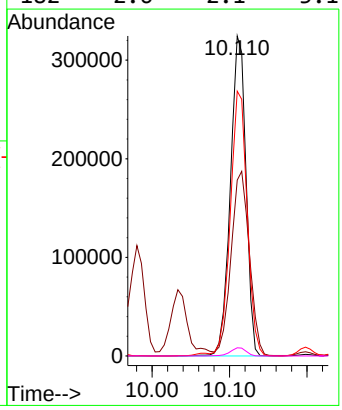


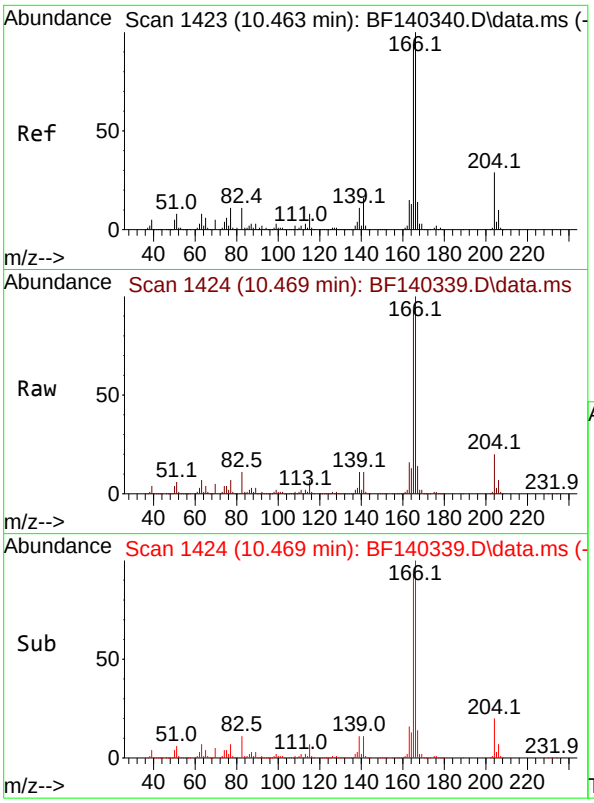


#57
2,4-Dinitrotoluene
Concen: 71.693 ng
RT: 10.110 min Scan# 1363
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:165 Resp: 454770

Ion	Ratio	Lower	Upper
165	100		
63	55.0	39.4	59.0
89	82.8	62.4	93.6
182	2.6	2.1	3.1

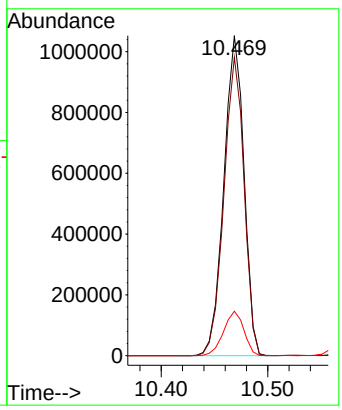




#58
Fluorene
Concen: 67.316 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:166 Resp: 138280

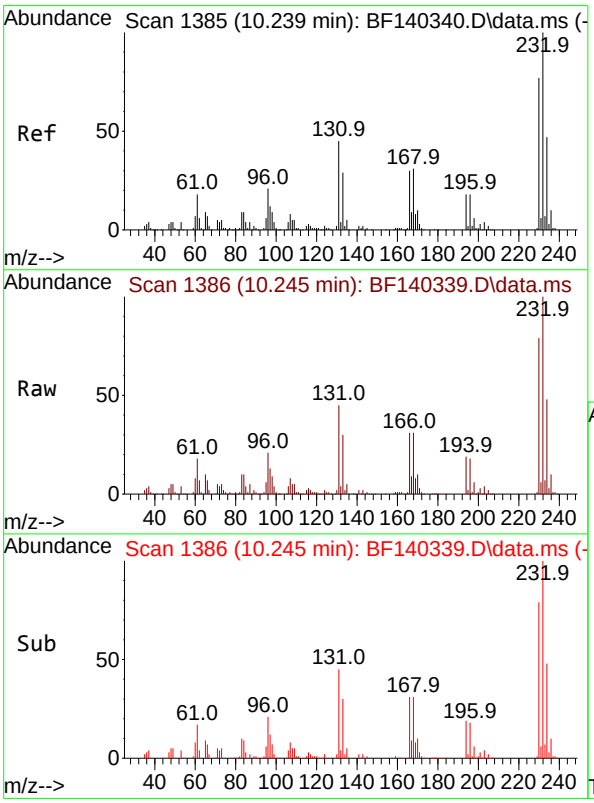
Ion	Ratio	Lower	Upper
166	100		
165	93.3	73.9	110.9
167	13.9	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

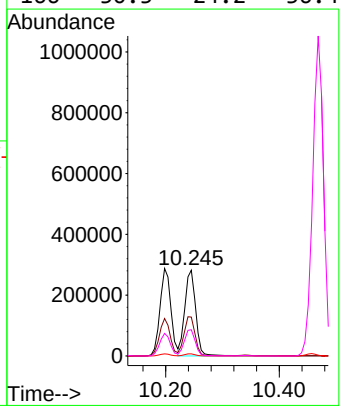
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

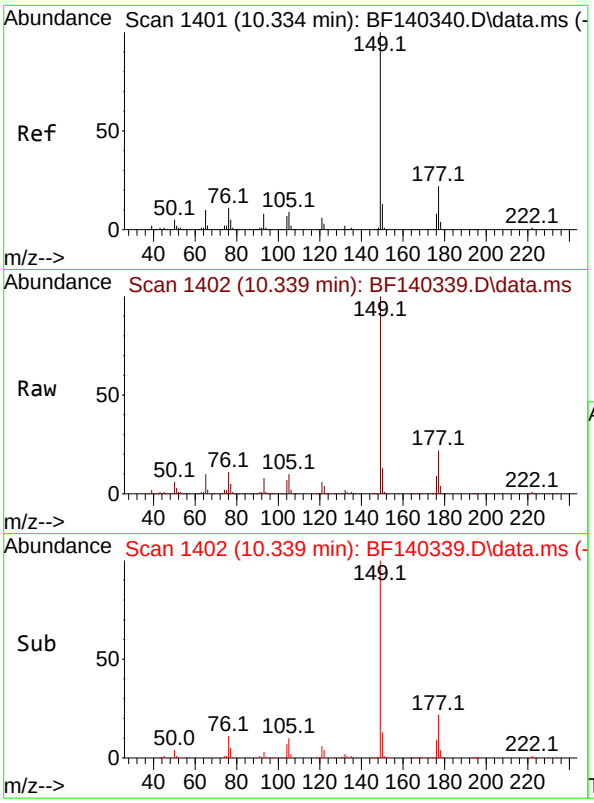


#59
2,3,4,6-Tetrachlorophenol
Concen: 73.723 ng
RT: 10.245 min Scan# 1386
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:232 Resp: 374293

Ion	Ratio	Lower	Upper
232	100		
131	46.4	36.8	55.2
130	2.4	1.9	2.9
166	30.3	24.2	36.4

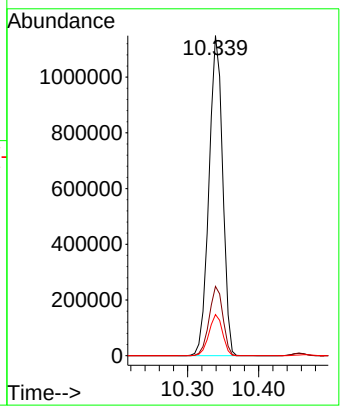




#60
Diethylphthalate
Concen: 71.126 ng
RT: 10.339 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:149 Resp: 153760

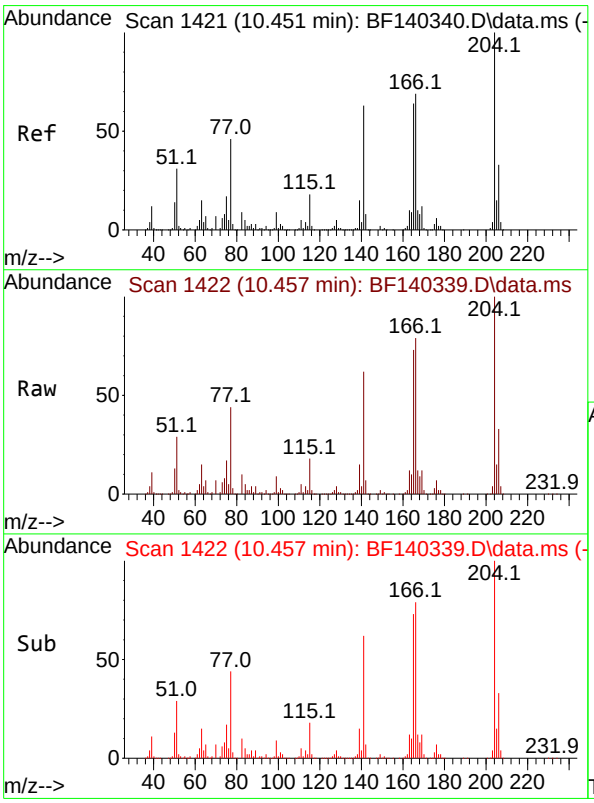
Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.5	26.3
150	12.9	10.1	15.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

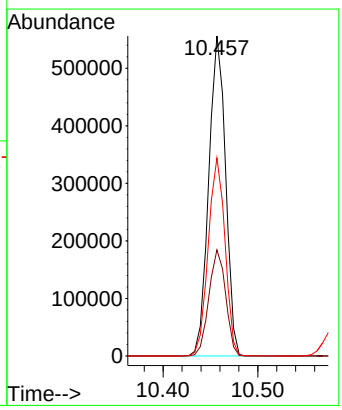
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

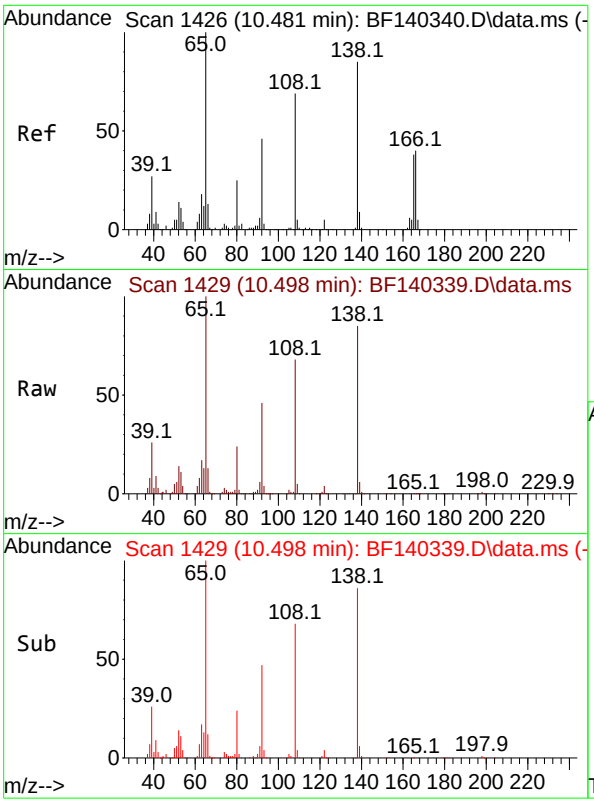


#61
4-Chlorophenyl-phenylether
Concen: 67.555 ng
RT: 10.457 min Scan# 1422
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:204 Resp: 685111

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.0	39.0
141	61.9	49.8	74.8





#62
4-Nitroaniline
Concen: 74.437 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.017 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

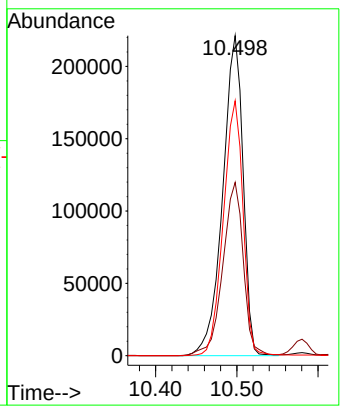
Tgt Ion:138 Resp: 38524

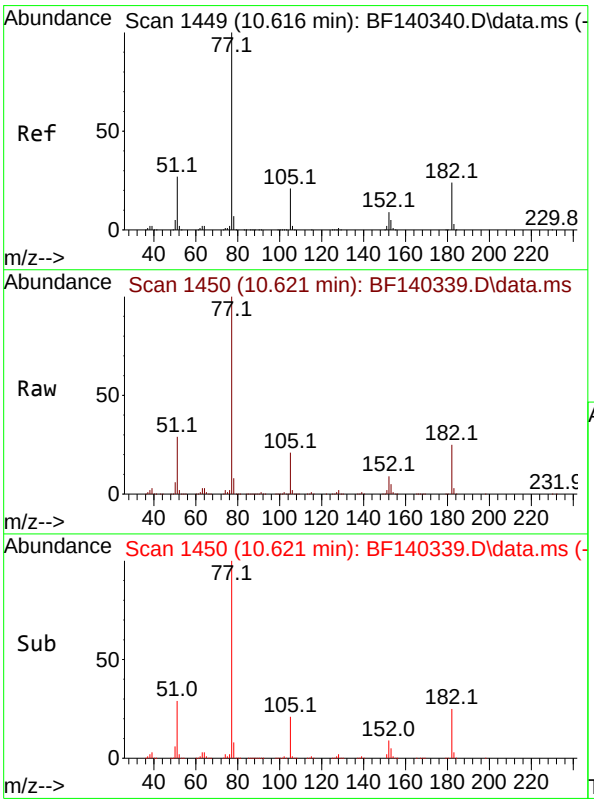
Ion	Ratio	Lower	Upper
138	100		
92	54.1	33.8	73.8
108	79.6	59.9	99.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

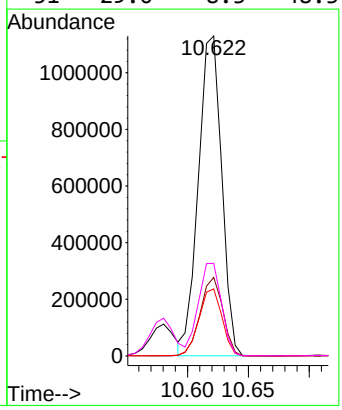


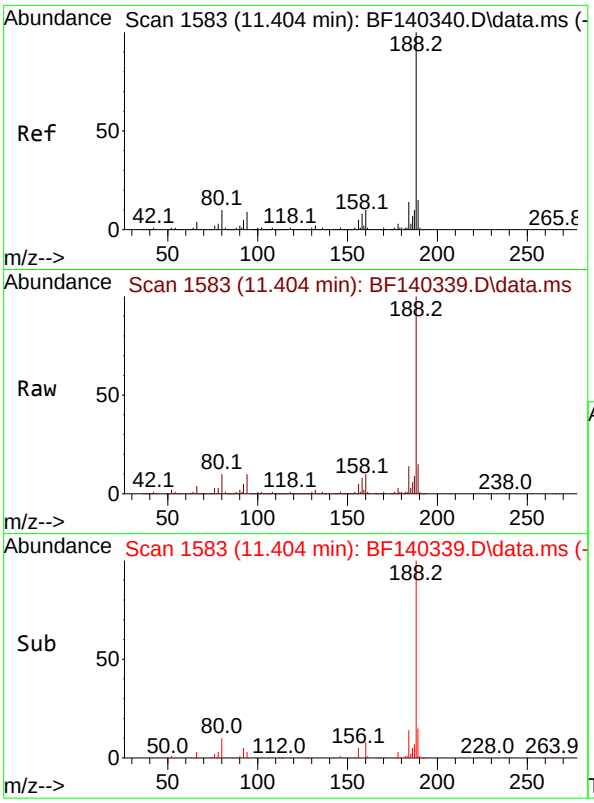


#63
Azobenzene
Concen: 70.637 ng
RT: 10.621 min Scan# 1450
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion: 77 Resp: 1508804

Ion	Ratio	Lower	Upper
77	100		
182	24.5	4.6	44.6
105	21.0	0.9	40.9
51	29.0	8.3	48.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

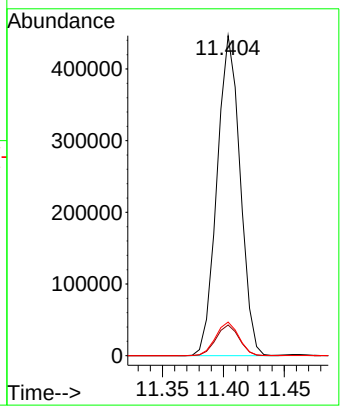
Tgt Ion:188 Resp: 59196

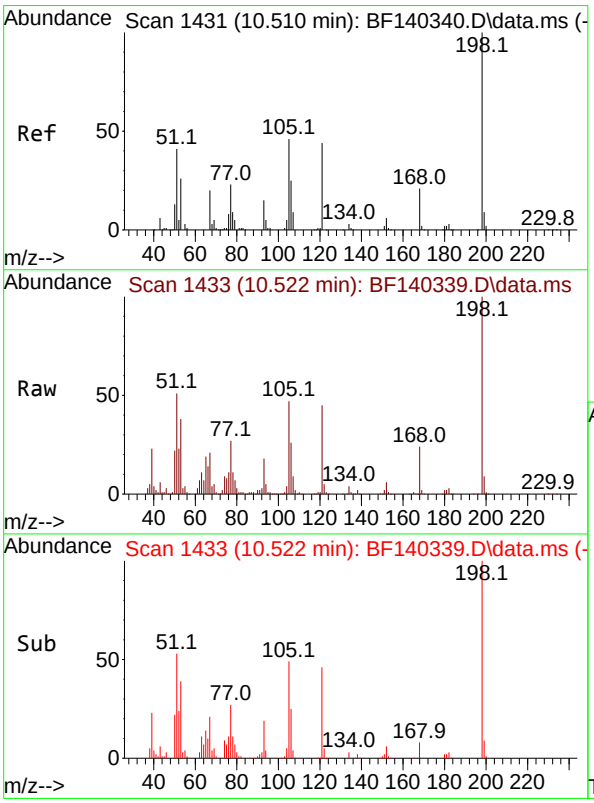
Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.6	11.4
80	10.5	8.0	12.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

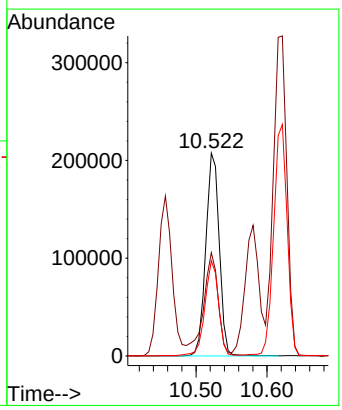


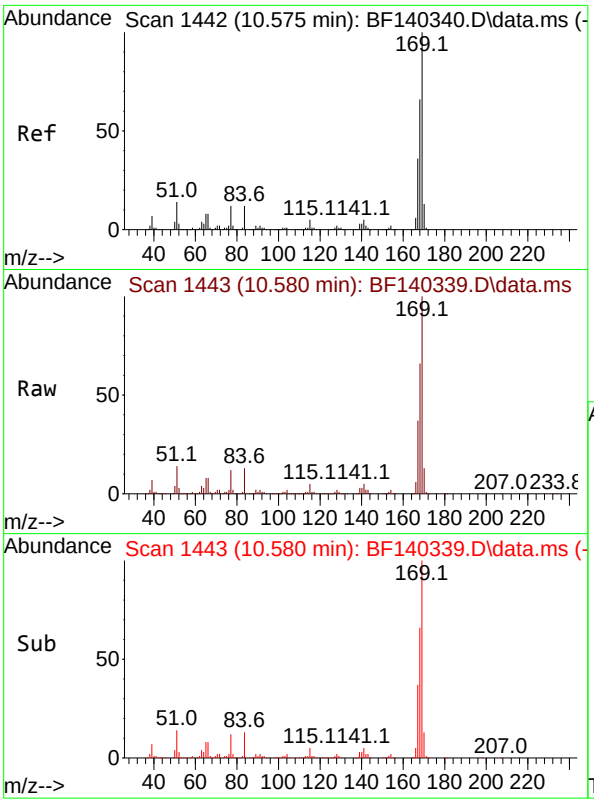


#65
4,6-Dinitro-2-methylphenol
Concen: 86.136 ng
RT: 10.522 min Scan# 1433
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:198 Resp: 274337

Ion	Ratio	Lower	Upper
198	100		
51	50.9	29.7	69.7
105	46.9	26.3	66.3

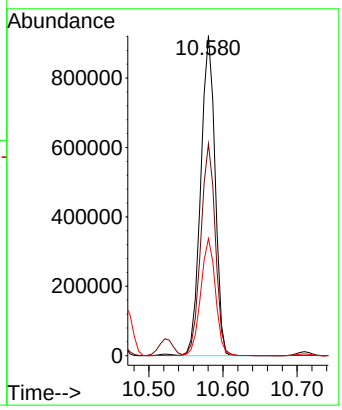




#66
n-Nitrosodiphenylamine
Concen: 72.330 ng
RT: 10.580 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:169 Resp: 123713

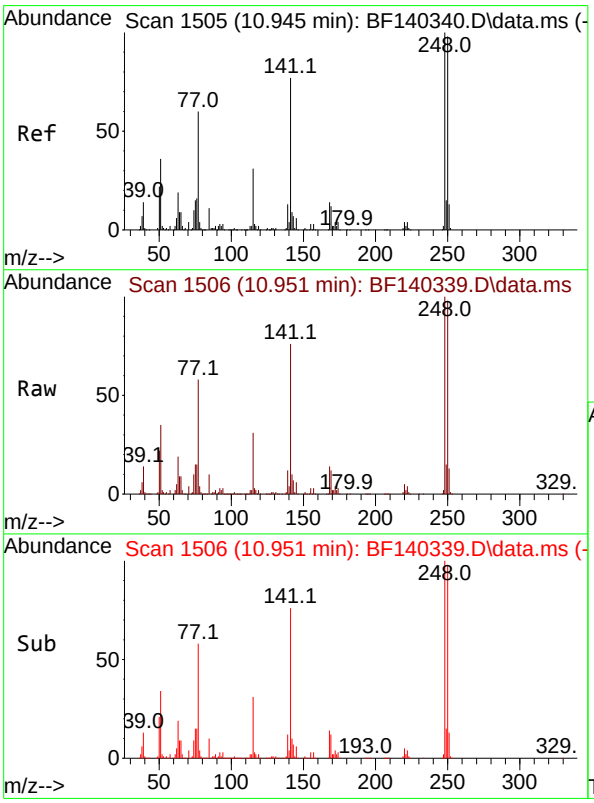
Ion	Ratio	Lower	Upper
169	100		
168	66.2	52.7	79.1
167	36.6	29.3	43.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

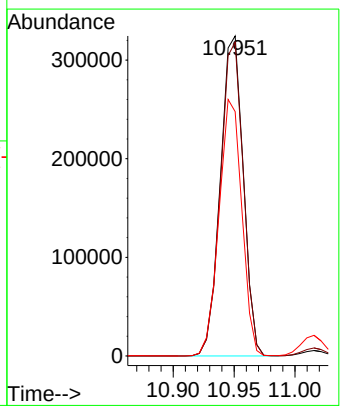
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

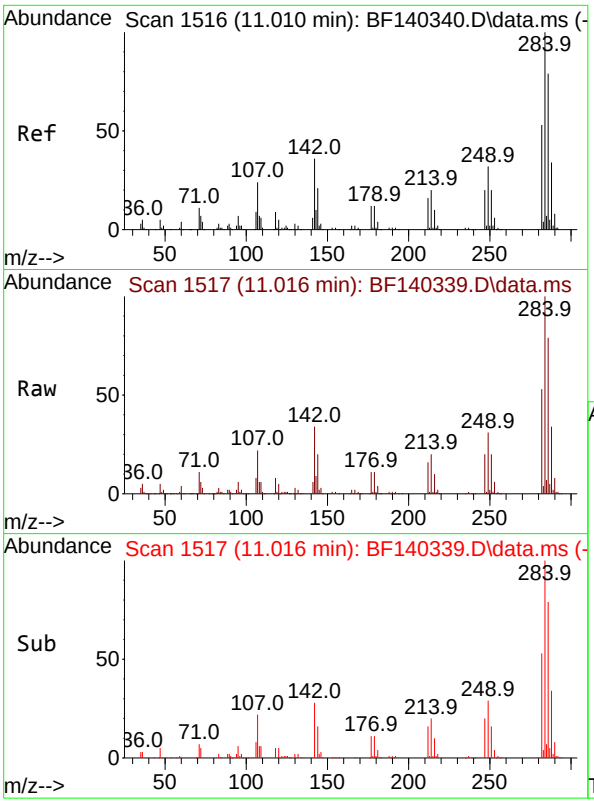


#67
4-Bromophenyl-phenylether
Concen: 72.010 ng
RT: 10.951 min Scan# 1506
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:248 Resp: 426112

Ion	Ratio	Lower	Upper
248	100		
250	98.1	77.9	116.9
141	76.4	61.8	92.6





#68
Hexachlorobenzene
Concen: 73.871 ng
RT: 11.016 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

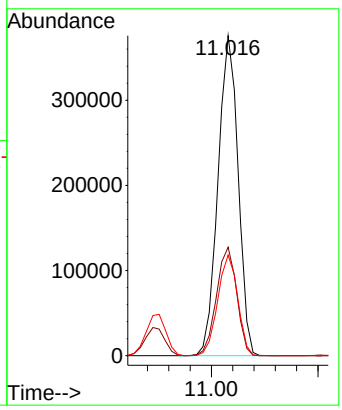
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

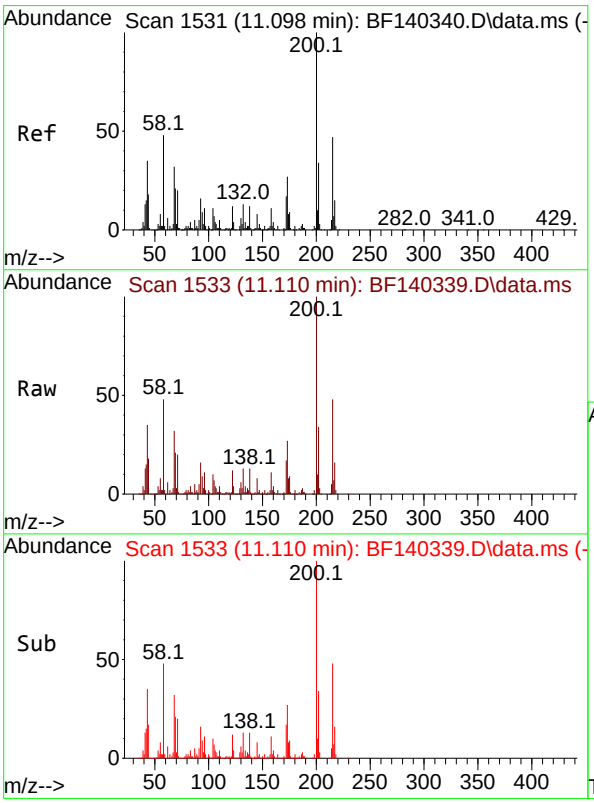
Tgt Ion:284 Resp: 49182

Ion	Ratio	Lower	Upper
284	100		
142	33.9	28.1	42.1
249	31.4	24.9	37.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

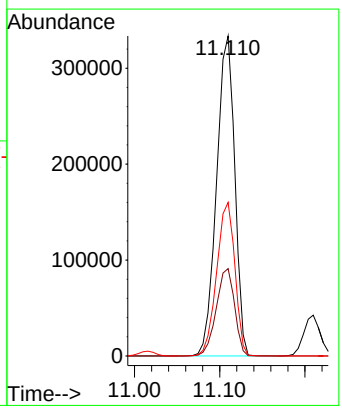


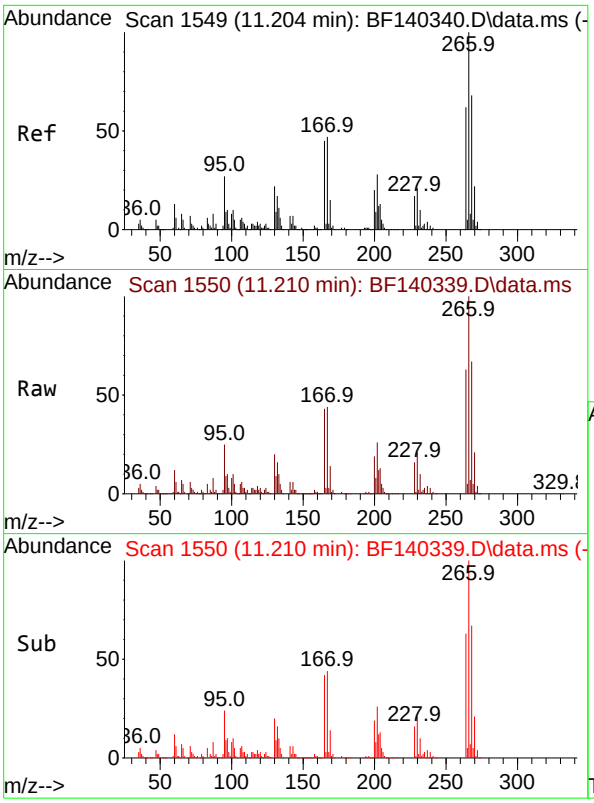


#69
Atrazine
Concen: 95.702 ng
RT: 11.110 min Scan# 1533
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:200 Resp: 495230

Ion	Ratio	Lower	Upper
200	100		
173	27.3	6.6	46.6
215	48.0	27.2	67.2

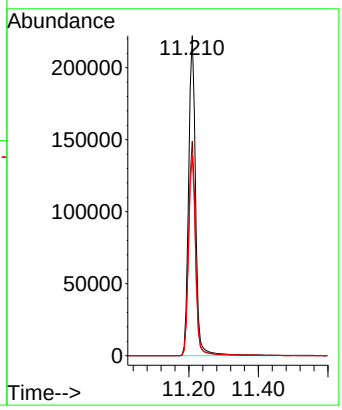




#70
Pentachlorophenol
Concen: 85.908 ng
RT: 11.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:266 Resp: 30809

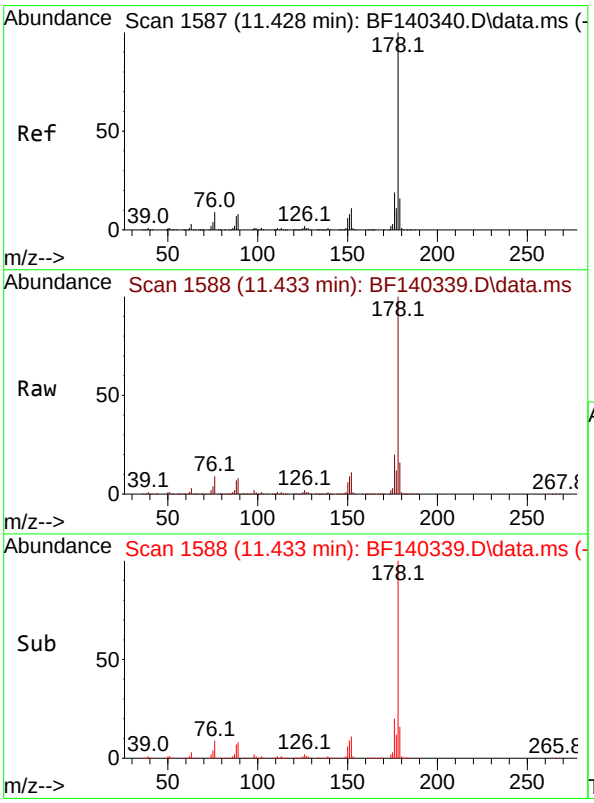
Ion	Ratio	Lower	Upper
266	100		
268	67.1	52.9	79.3
264	62.7	50.3	75.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

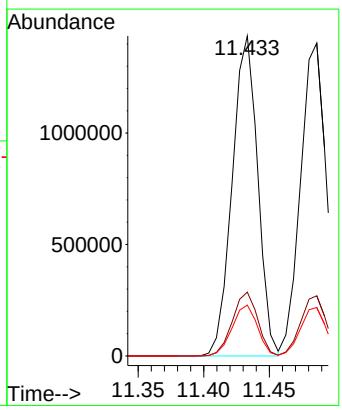
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

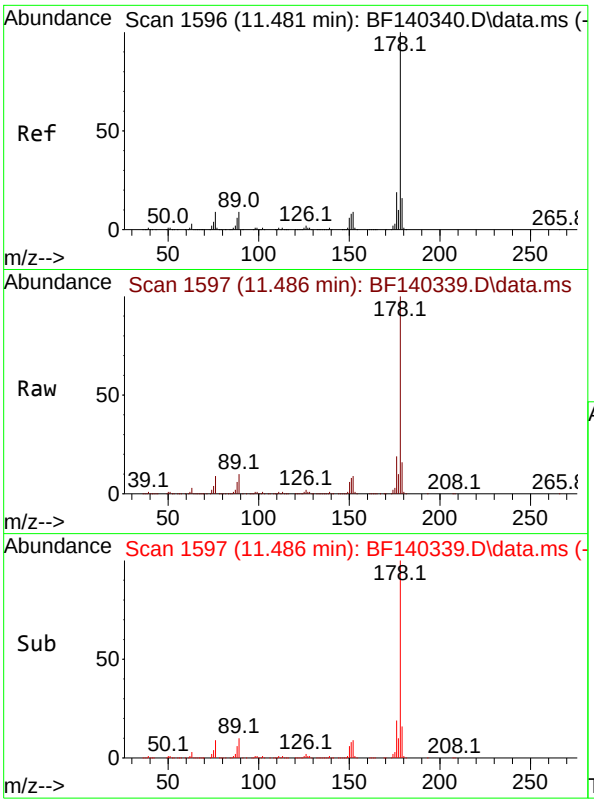


#71
Phenanthrene
Concen: 69.825 ng
RT: 11.433 min Scan# 1588
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:178 Resp: 1941678

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.5	23.3
179	15.9	12.4	18.6

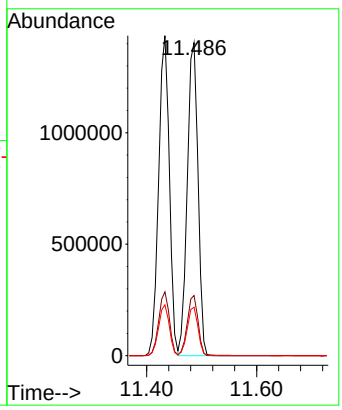




#72
Anthracene
Concen: 69.770 ng
RT: 11.486 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:178 Resp: 190148

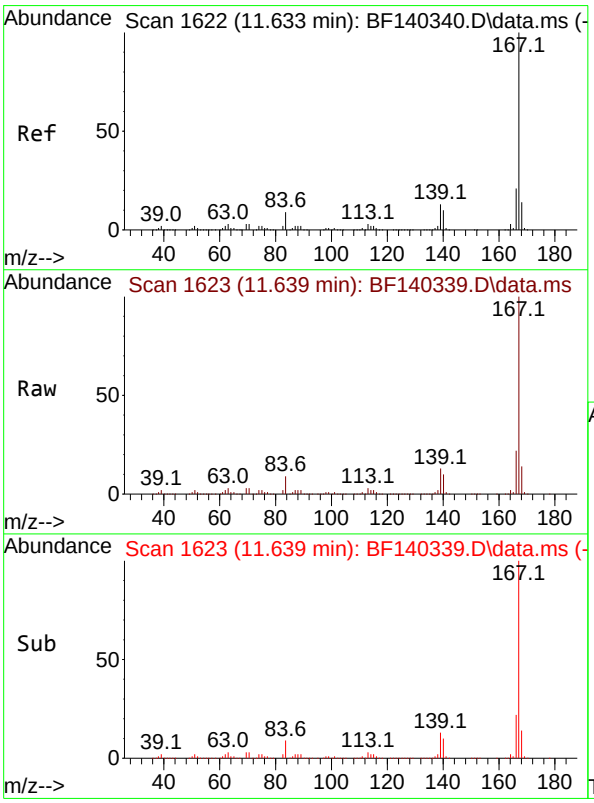
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.5	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

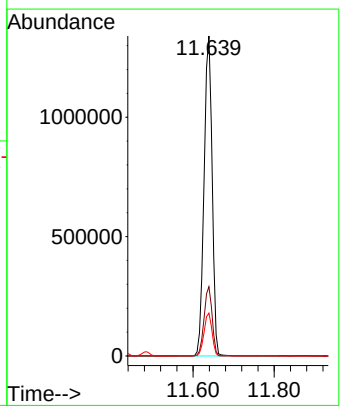
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

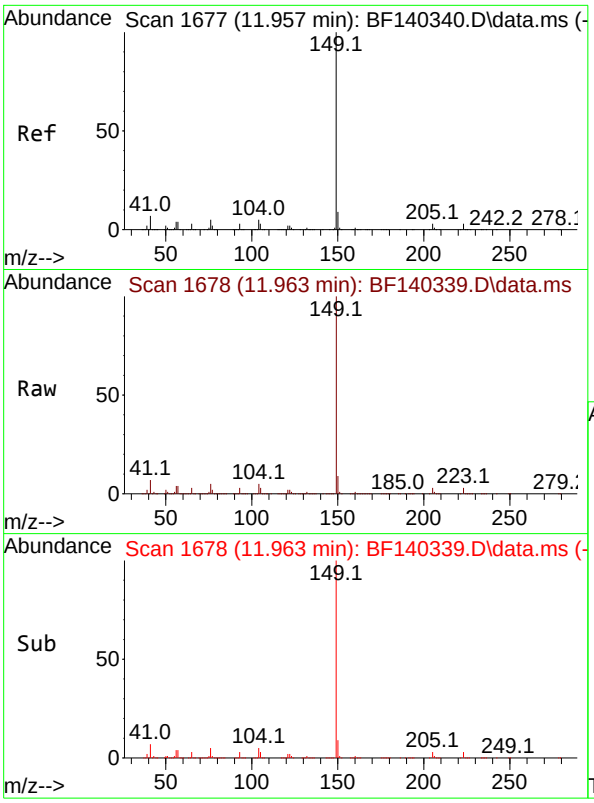


#73
Carbazole
Concen: 68.878 ng
RT: 11.639 min Scan# 1623
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:167 Resp: 1853513

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.2	25.8
139	13.4	10.4	15.6

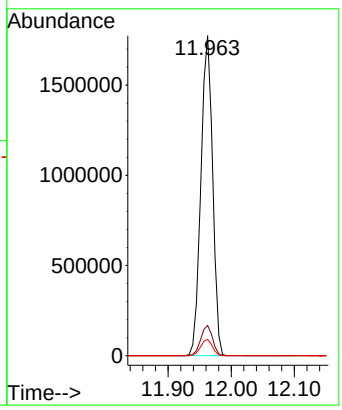




#74
Di-n-butylphthalate
Concen: 70.708 ng
RT: 11.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:149 Resp: 228374

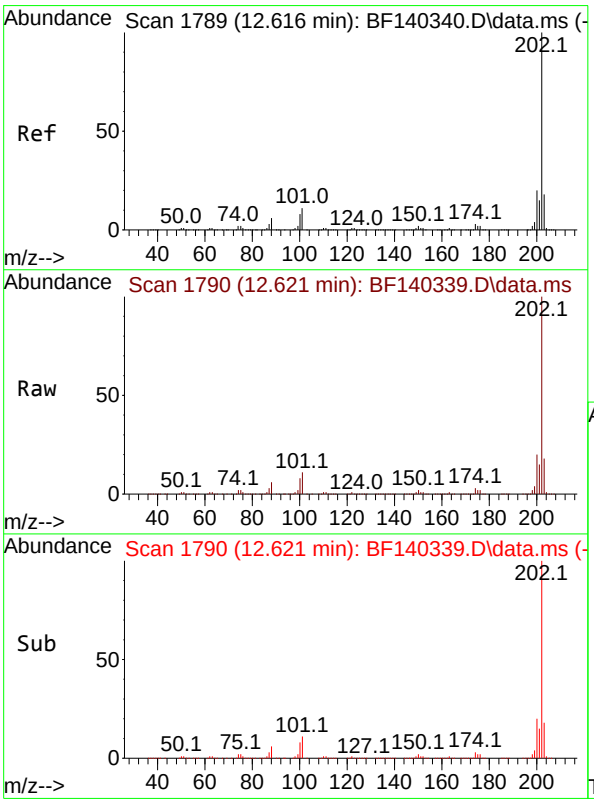
Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.2
104	5.1	4.0	6.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

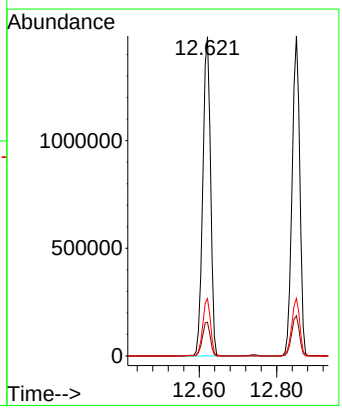
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

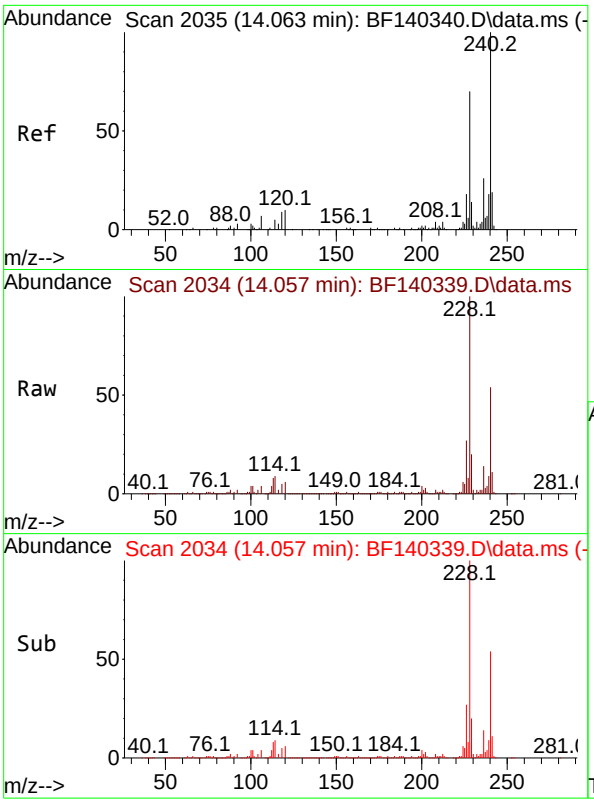


#75
Fluoranthene
Concen: 65.832 ng
RT: 12.621 min Scan# 1790
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:202 Resp: 2053832

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	30.7
203	18.0	0.0	37.7

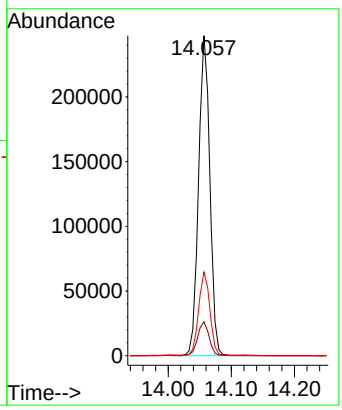




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:240 Resp: 30571

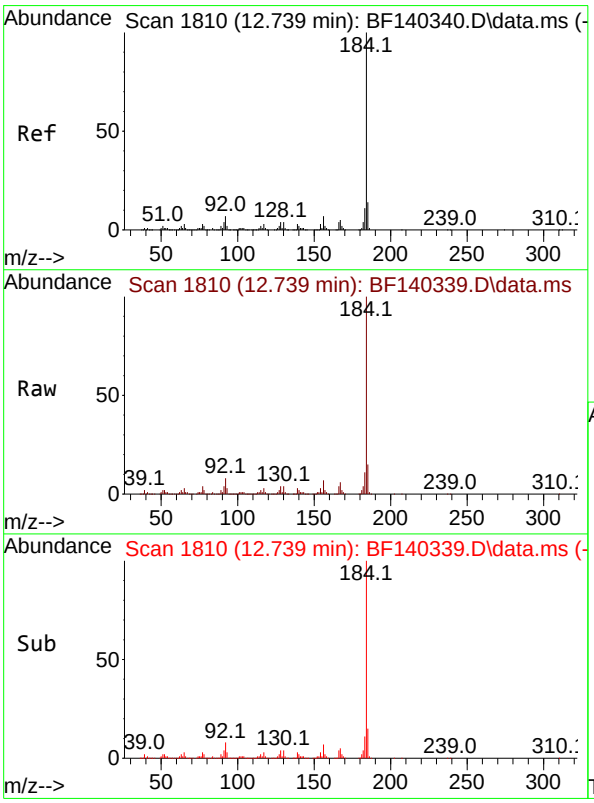
Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.8	13.2
236	26.1	20.9	31.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

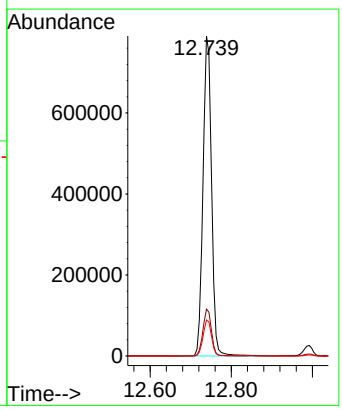
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

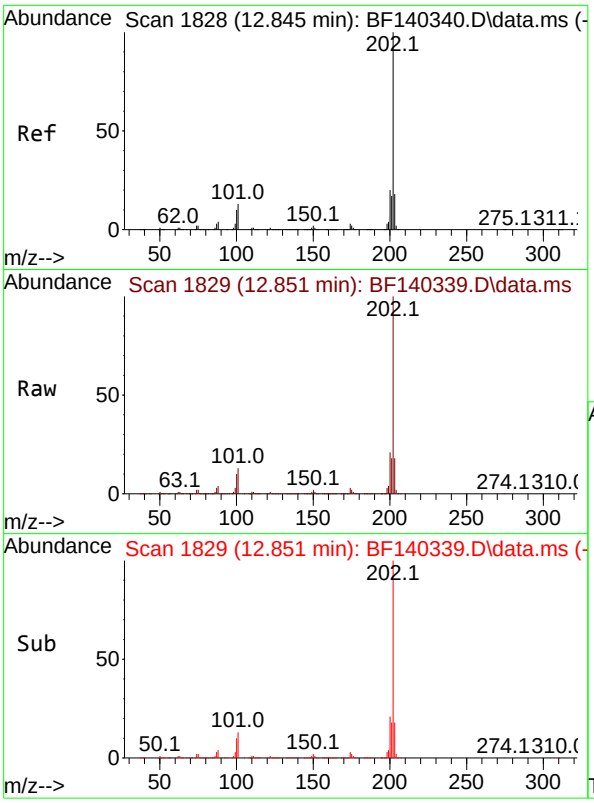


#77
Benzidine
Concen: 97.835 ng
RT: 12.739 min Scan# 1810
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:184 Resp: 1147944

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.9	17.9
183	11.2	8.6	13.0

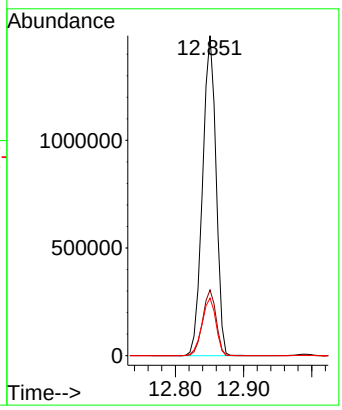




#78
Pyrene
Concen: 78.173 ng
RT: 12.851 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:202 Resp: 204422

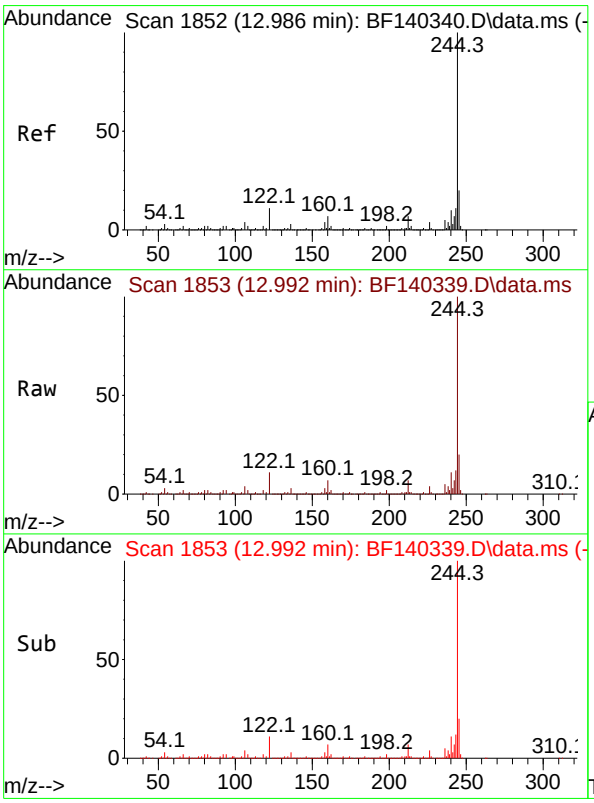
Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.2	24.2
203	18.0	14.2	21.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

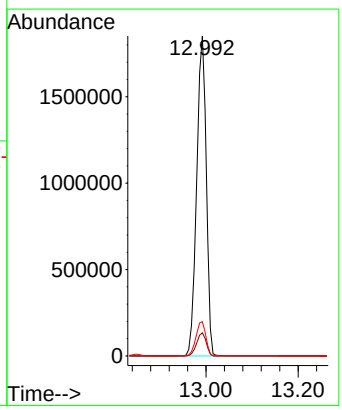
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

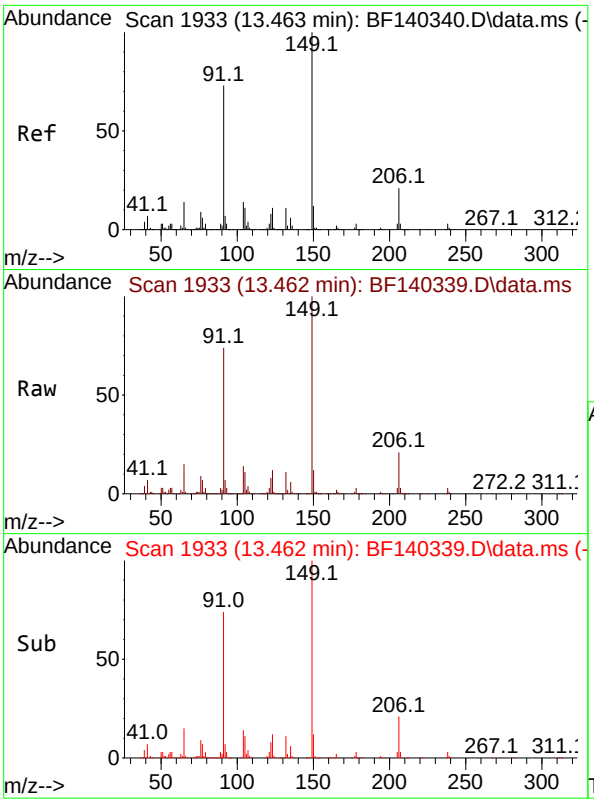


#79
Terphenyl-d14
Concen: 151.833 ng
RT: 12.992 min Scan# 1853
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:244 Resp: 2674139

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	10.7	8.8	13.2

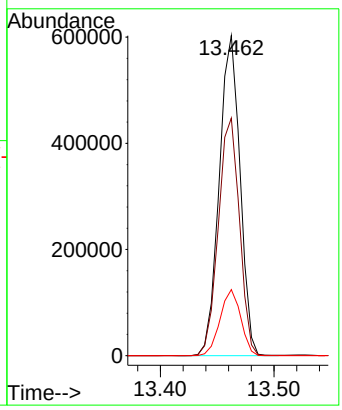




#80
Butylbenzylphthalate
Concen: 76.487 ng
RT: 13.462 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:149 Resp: 76835

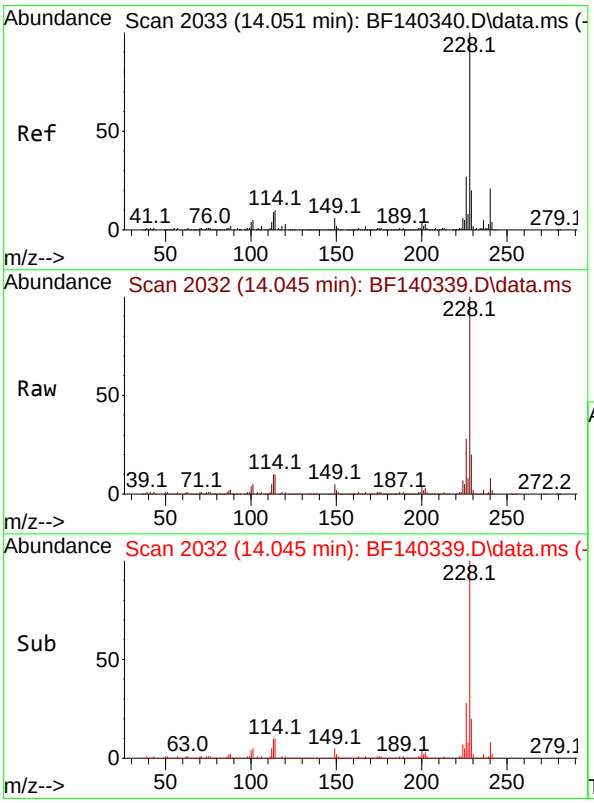
Ion	Ratio	Lower	Upper
149	100		
91	74.3	61.0	91.4
206	20.7	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

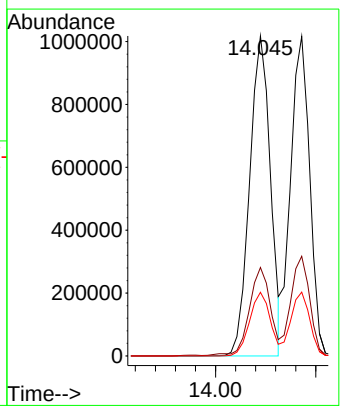
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

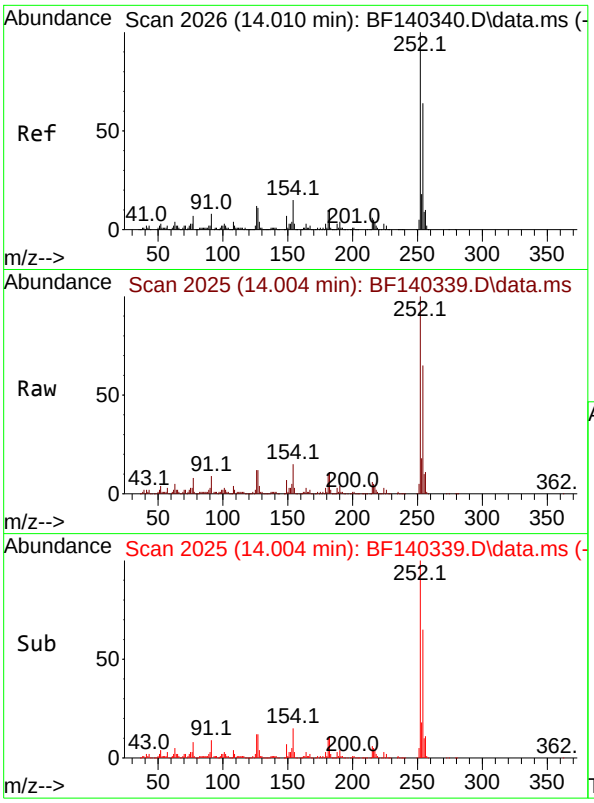


#81
Benzo(a)anthracene
Concen: 72.724 ng
RT: 14.045 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:228 Resp: 1461193

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.2	33.4
229	19.9	15.8	23.6

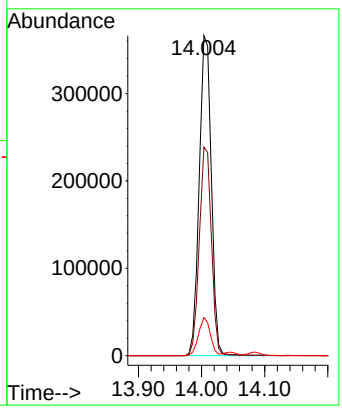




#82
3,3'-Dichlorobenzidine
Concen: 76.486 ng
RT: 14.004 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:252 Resp: 48846

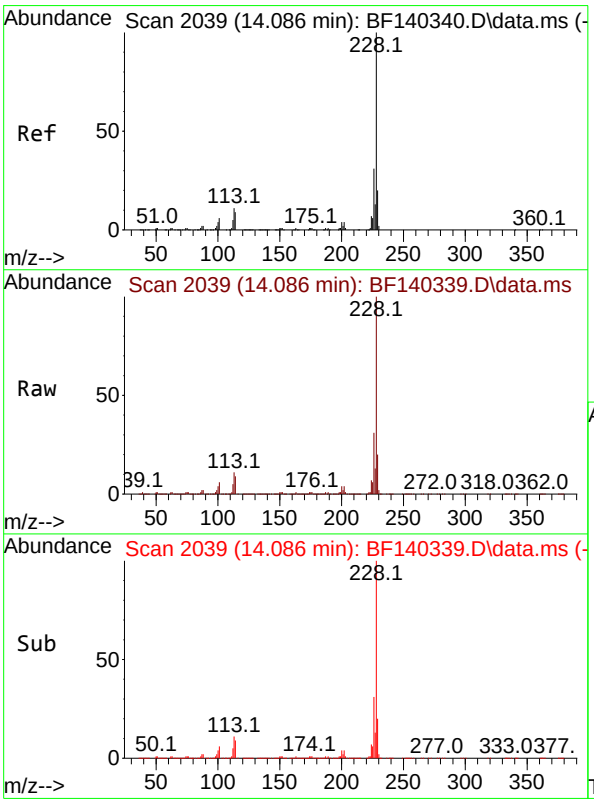
Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.4	77.2
126	11.9	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

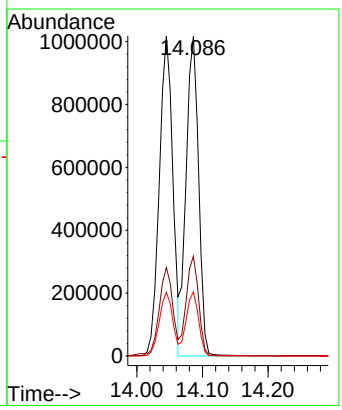
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

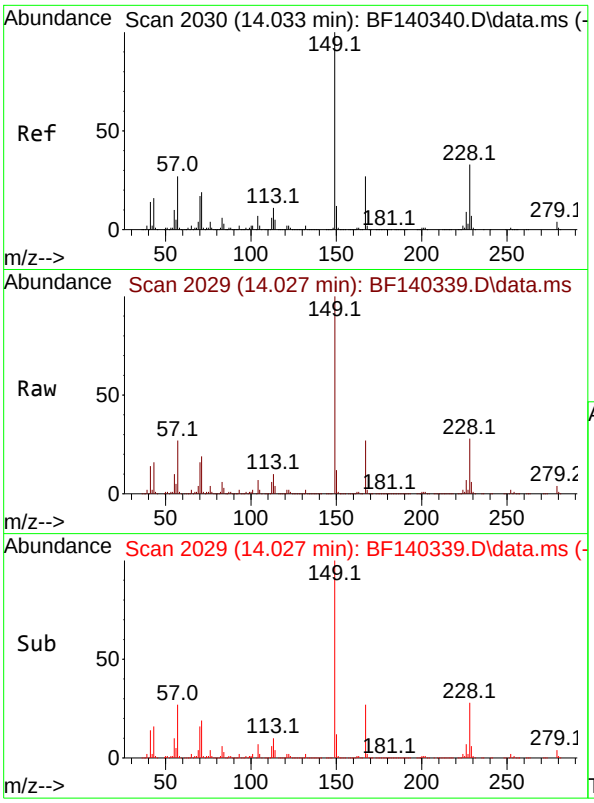


#83
Chrysene
Concen: 73.275 ng
RT: 14.086 min Scan# 2039
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:228 Resp: 1343316

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.5	36.7
229	20.0	16.0	24.0





#84
Bis(2-ethylhexyl)phthalate
Concen: 74.186 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

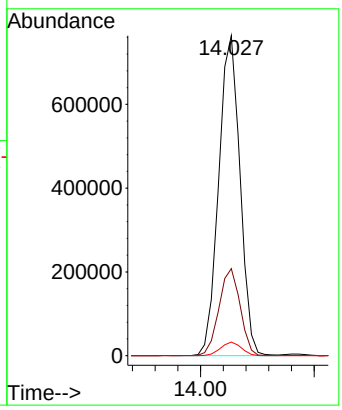
Tgt Ion:149 Resp: 99472

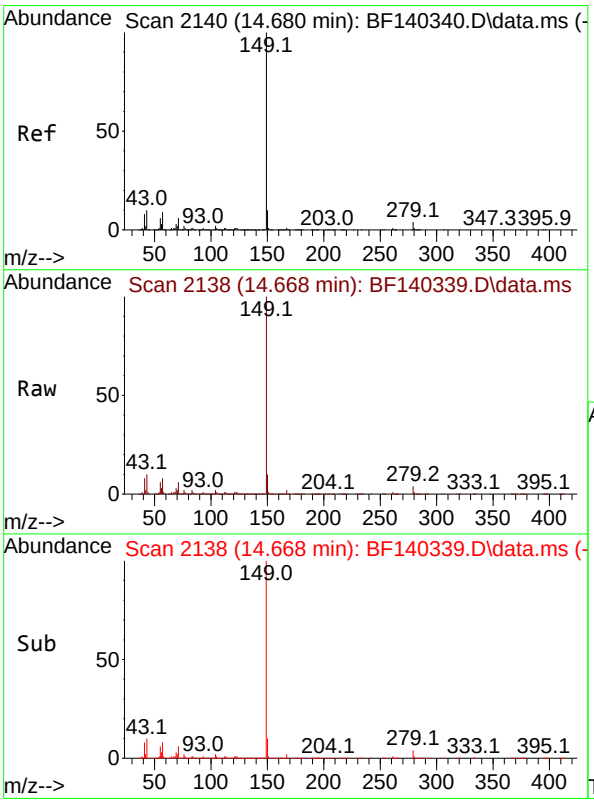
Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.4	32.0
279	4.2	3.0	4.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

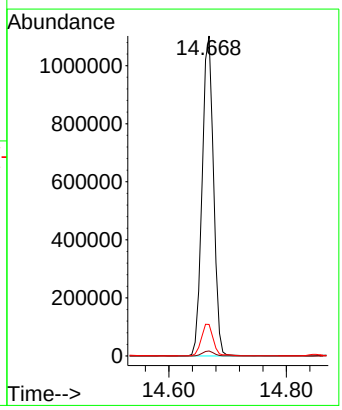


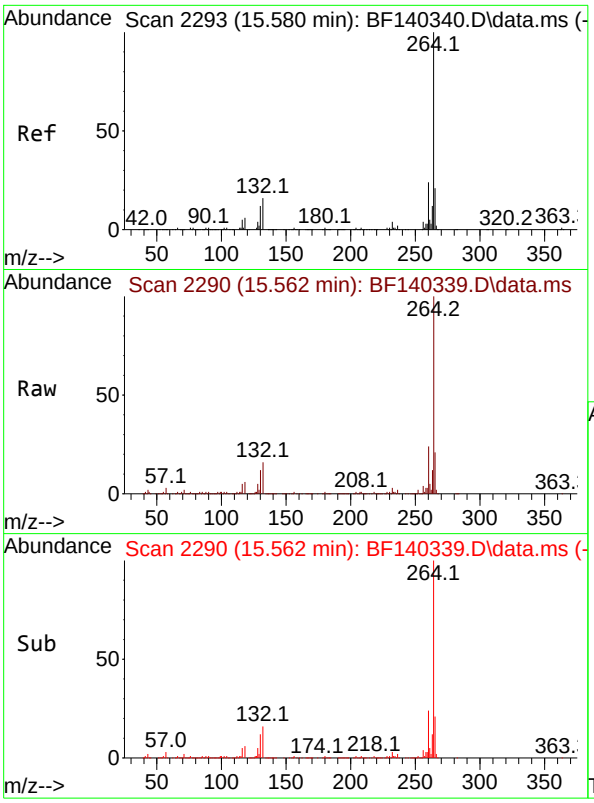


#85
Di-n-octyl phthalate
Concen: 78.474 ng
RT: 14.668 min Scan# 2138
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:149 Resp: 1481946

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.4	8.0	12.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

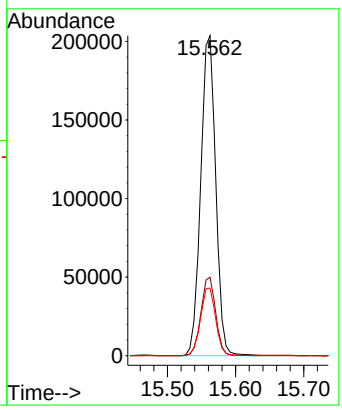
Tgt Ion:264 Resp: 31089

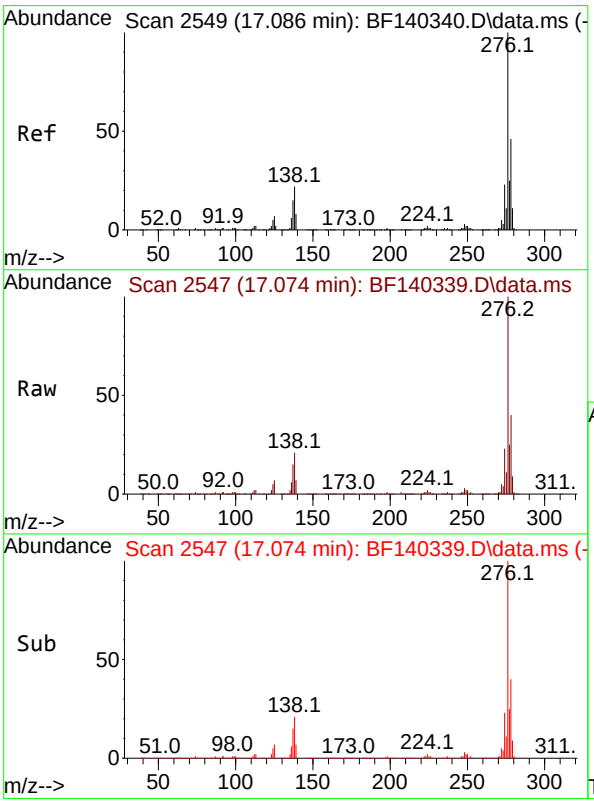
Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	21.2	17.1	25.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

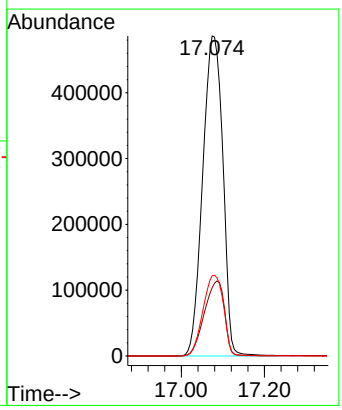


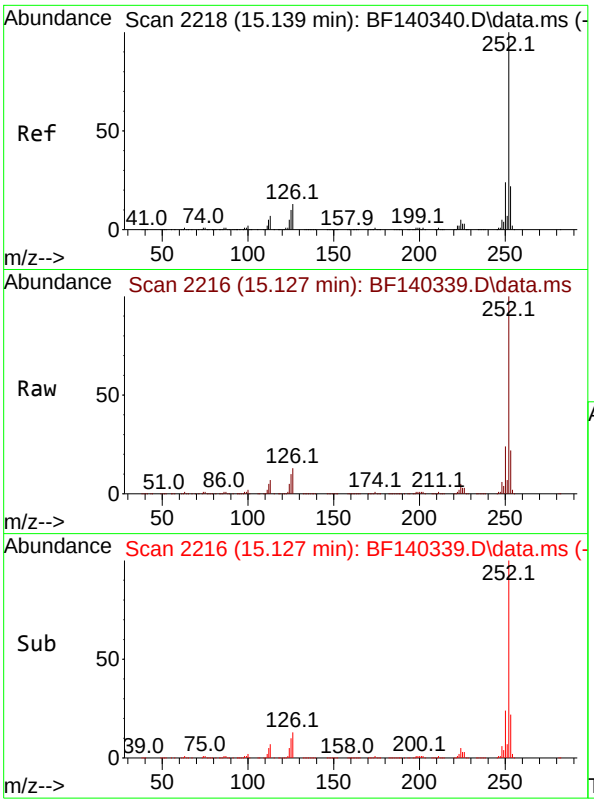


#87
Indeno(1,2,3-cd)pyrene
Concen: 85.308 ng
RT: 17.074 min Scan# 2547
Delta R.T. 0.017 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:276 Resp: 1638318

Ion	Ratio	Lower	Upper
276	100		
138	23.4	18.8	28.2
277	25.7	20.2	30.2

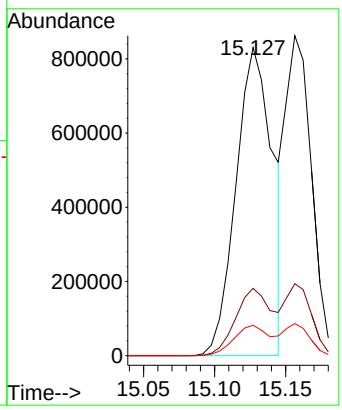




#88
Benzo(b)fluoranthene
Concen: 73.300 ng
RT: 15.127 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:252 Resp: 149070

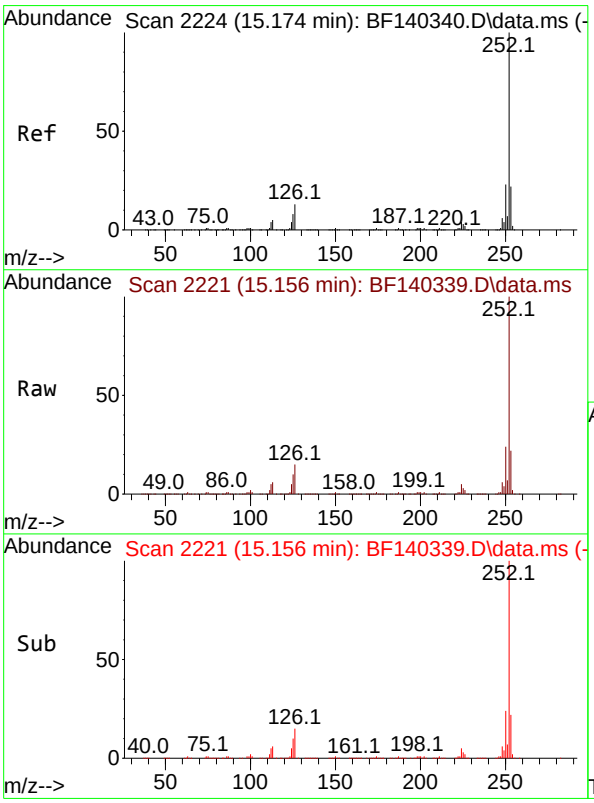
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	9.8	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

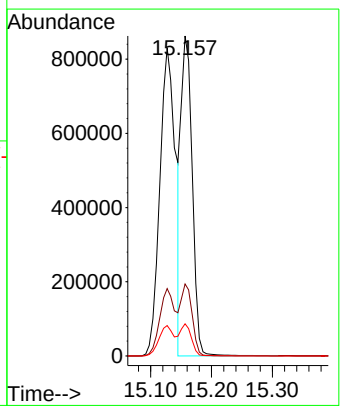
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

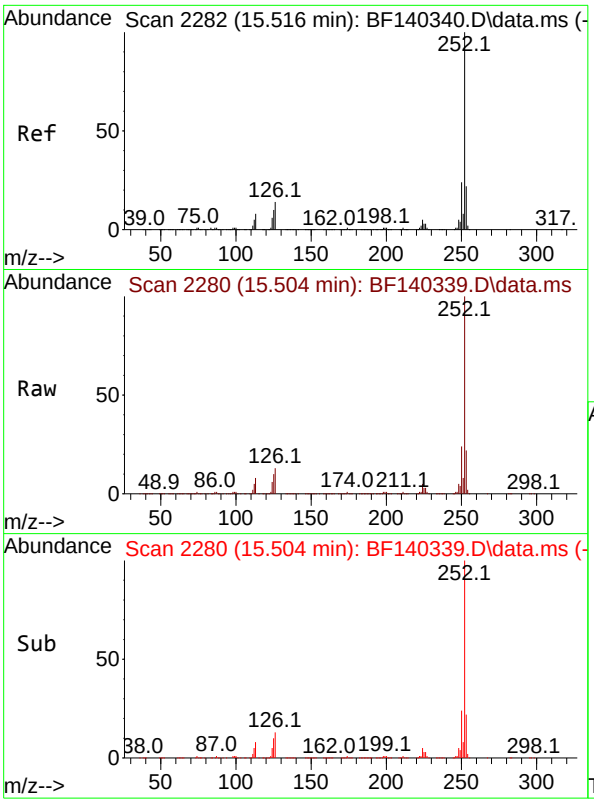


#89
Benzo(k)fluoranthene
Concen: 66.445 ng
RT: 15.156 min Scan# 2221
Delta R.T. 0.006 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:252 Resp: 1103915

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.3	25.9
125	10.1	7.4	11.2

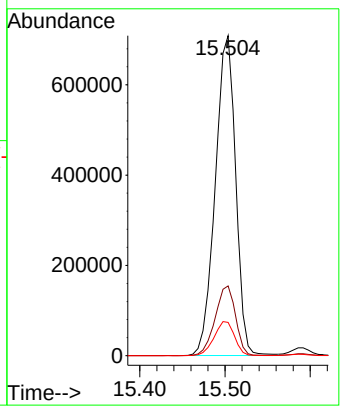




#90
Benzo(a)pyrene
Concen: 74.662 ng
RT: 15.504 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:252 Resp: 117914

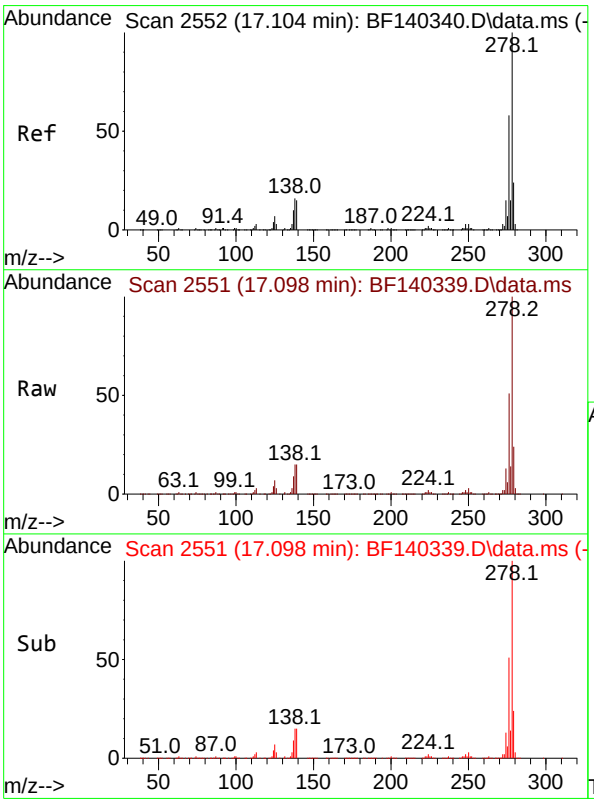
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	10.4	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

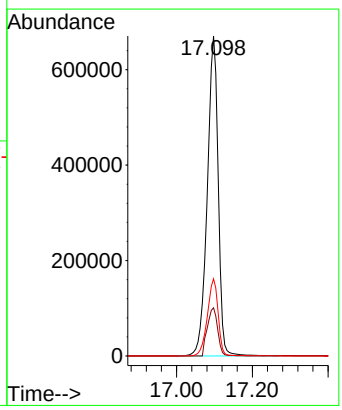
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

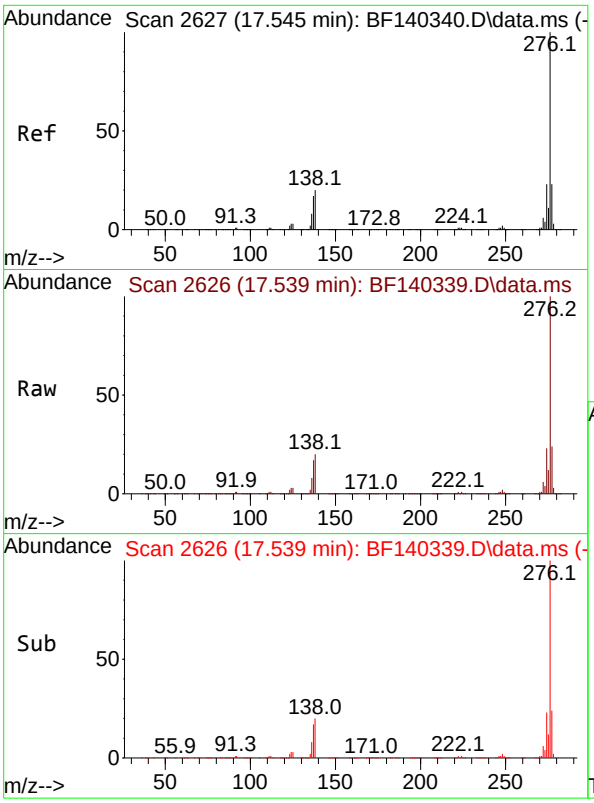


#91
Dibenzo(a,h)anthracene
Concen: 84.367 ng
RT: 17.098 min Scan# 2551
Delta R.T. 0.023 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:278 Resp: 1339293

Ion	Ratio	Lower	Upper
278	100		
139	15.0	11.8	17.8
279	24.1	18.9	28.3

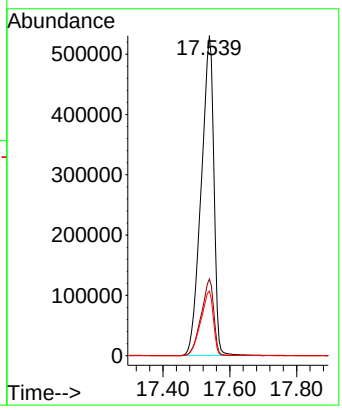




#92
Benzo(g,h,i)perylene
Concen: 85.805 ng
RT: 17.539 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF140339.D
Acq: 13 Nov 2024 12:13

Tgt Ion:276 Resp: 139252

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.6	28.0
138	20.2	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140340.D
Acq On : 13 Nov 2024 12:48
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	147186	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	589077	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	334544	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	628587	20.000	ng	0.00
76) Chrysene-d12	14.063	240	385940	20.000	ng	0.01
86) Perylene-d12	15.580	264	322417	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	677089	78.544	ng	0.00
7) Phenol-d6	6.504	99	945074	80.918	ng	0.00
23) Nitrobenzene-d5	7.440	82	884247	78.210	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	257655	77.449	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1568502	75.369	ng	0.00
79) Terphenyl-d14	12.986	244	1733989	77.987	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	151541	39.442	ng	99
3) Pyridine	3.399	79	387454	41.019	ng	99
4) n-Nitrosodimethylamine	3.352	42	193917	40.620	ng	97
6) Aniline	6.540	93	427252	42.052	ng	100
8) 2-Chlorophenol	6.663	128	371904	40.162	ng	100
9) Benzaldehyde	6.428	77	262348	37.479	ng	99
10) Phenol	6.516	94	507443	41.199	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	371673	39.825	ng	99
12) 1,3-Dichlorobenzene	6.816	146	404387	39.579	ng	99
13) 1,4-Dichlorobenzene	6.893	146	409423	39.520	ng	99
14) 1,2-Dichlorobenzene	7.051	146	380948	39.610	ng	100
15) Benzyl Alcohol	7.016	79	356418	42.357	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	534596	41.471	ng	99
17) 2-Methylphenol	7.128	107	313127	41.105	ng	99
18) Hexachloroethane	7.387	117	151355	39.519	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	288974	40.966	ng	98
20) 3+4-Methylphenols	7.281	107	397692	41.745	ng	96
22) Acetophenone	7.287	105	529699	38.662	ng	98
24) Nitrobenzene	7.457	77	462701	39.307	ng	99
25) Isophorone	7.698	82	793806	39.616	ng	99
26) 2-Nitrophenol	7.775	139	210859	40.366	ng	99
27) 2,4-Dimethylphenol	7.804	122	262308	39.222	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	479505	39.027	ng	100
29) 2,4-Dichlorophenol	8.016	162	323936	39.193	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	355366	38.619	ng	100
31) Naphthalene	8.181	128	1157149	38.723	ng	100
32) Benzoic acid	7.928	122	249383	42.449	ng	96
33) 4-Chloroaniline	8.228	127	400271	38.516	ng	100
34) Hexachlorobutadiene	8.292	225	227805	38.855	ng	99
35) Caprolactam	8.598	113	108216	38.943	ng	96
36) 4-Chloro-3-methylphenol	8.704	107	364230	39.766	ng	99
37) 2-Methylnaphthalene	8.869	142	744201	38.839	ng	99
38) 1-Methylnaphthalene	8.969	142	736798	39.267	ng	99
40) 1,2,4,5-Tetrachloroben...	9.034	216	354978	38.371	ng	99
41) Hexachlorocyclopentadiene	9.022	237	93127	39.207	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	240824	39.666	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140340.D
Acq On : 13 Nov 2024 12:48
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	2,4,5-Trichlorophenol	9.187	196	260135	39.190	ng	99
46)	1,1'-Biphenyl	9.334	154	939571	38.605	ng	99
47)	2-Chloronaphthalene	9.357	162	712904	38.453	ng	99
48)	2-Nitroaniline	9.457	65	243614	39.621	ng	99
49)	Acenaphthylene	9.775	152	1094318	39.012	ng	100
50)	Dimethylphthalate	9.634	163	843750	38.694	ng	100
51)	2,6-Dinitrotoluene	9.698	165	198967	40.024	ng	99
52)	Acenaphthene	9.951	154	733408	38.711	ng	100
53)	3-Nitroaniline	9.869	138	207550	39.755	ng	100
54)	2,4-Dinitrophenol	9.975	184	98545	38.441	ng	98
55)	Dibenzofuran	10.122	168	1042453	38.868	ng	100
56)	4-Nitrophenol	10.022	139	157938	41.475	ng	98
57)	2,4-Dinitrotoluene	10.104	165	258886	39.569	ng	98
58)	Fluorene	10.463	166	804084	37.951	ng	99
59)	2,3,4,6-Tetrachlorophenol	10.239	232	212533	40.586	ng	99
60)	Diethylphthalate	10.334	149	861287	38.627	ng	99
61)	4-Chlorophenyl-phenyle...	10.451	204	403914	38.614	ng	99
62)	4-Nitroaniline	10.481	138	213640	40.022	ng	100
63)	Azobenzene	10.616	77	865008	39.263	ng	99
65)	4,6-Dinitro-2-methylph...	10.510	198	136662	40.409	ng	98
66)	n-Nitrosodiphenylamine	10.575	169	703286	38.723	ng	100
67)	4-Bromophenyl-phenylether	10.945	248	243728	38.789	ng	100
68)	Hexachlorobenzene	11.010	284	273839	38.734	ng	98
69)	Atrazine	11.098	200	181993	33.121	ng	99
70)	Pentachlorophenol	11.204	266	160120	42.046	ng	98
71)	Phenanthrene	11.428	178	1135052	38.440	ng	100
72)	Anthracene	11.481	178	1117453	38.613	ng	100
73)	Carbazole	11.633	167	1101588	38.551	ng	100
74)	Di-n-butylphthalate	11.957	149	1350065	39.365	ng	100
75)	Fluoranthene	12.616	202	1279456	38.621	ng	100
77)	Benzidine	12.739	184	504166	34.036	ng	99
78)	Pyrene	12.845	202	1295809	39.252	ng	100
80)	Butylbenzylphthalate	13.463	149	532219	41.968	ng	97
81)	Benzo(a)anthracene	14.051	228	975194	38.447	ng	99
82)	3,3'-Dichlorobenzidine	14.010	252	310326	38.491	ng	99
83)	Chrysene	14.086	228	901424	38.950	ng	100
84)	Bis(2-ethylhexyl)phtha...	14.033	149	715490	42.269	ng	100
85)	Di-n-octyl phthalate	14.680	149	995484	41.757	ng	100
87)	Indeno(1,2,3-cd)pyrene	17.086	276	811059	40.723	ng	100
88)	Benzo(b)fluoranthene	15.139	252	814405	38.614	ng	100
89)	Benzo(k)fluoranthene	15.174	252	683609	39.676	ng	99
90)	Benzo(a)pyrene	15.516	252	648346	39.585	ng	99
91)	Dibenzo(a,h)anthracene	17.104	278	670243	40.712	ng	99
92)	Benzo(g,h,i)perylene	17.545	276	685184	40.711	ng	100

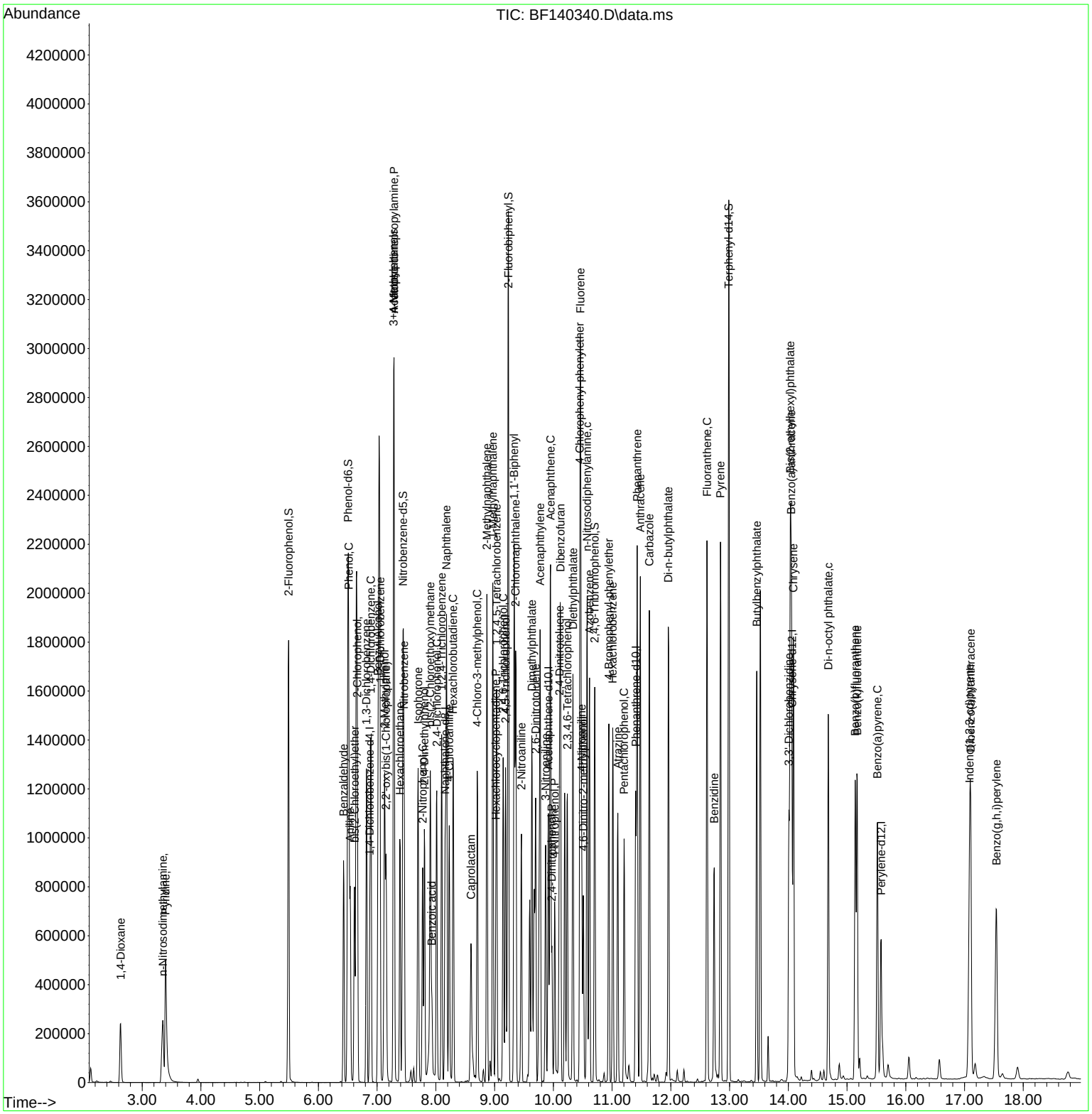
(#) = qualifier out of range (m) = manual integration (+) = signals summed

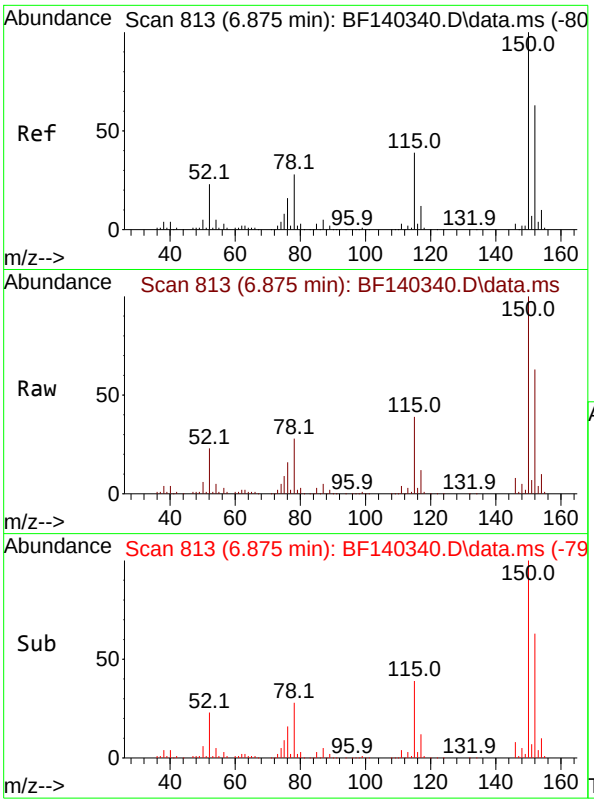
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140340.D
Acq On : 13 Nov 2024 12:48
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



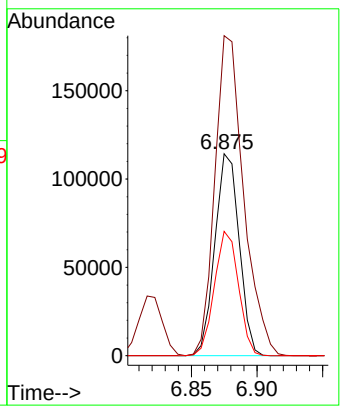


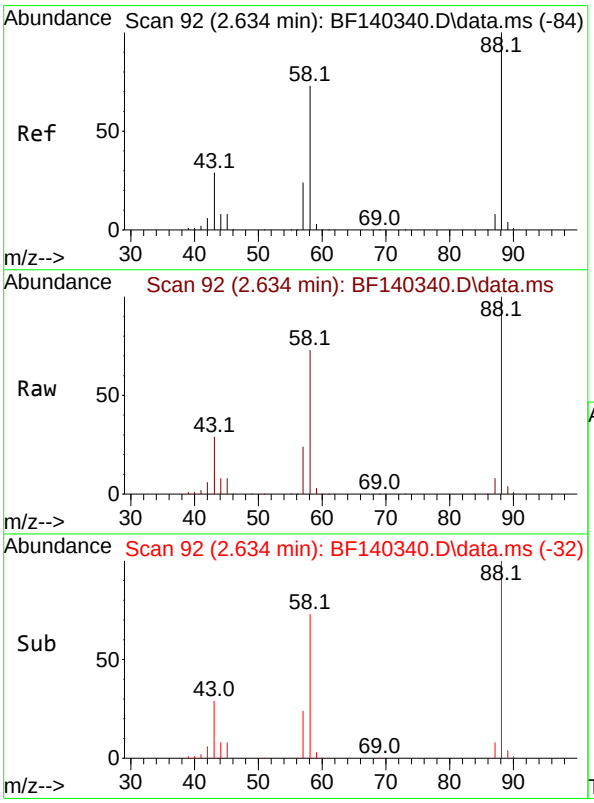
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 147186

Ion	Ratio	Lower	Upper
152	100		
150	158.5	127.4	191.0
115	61.6	47.4	71.2

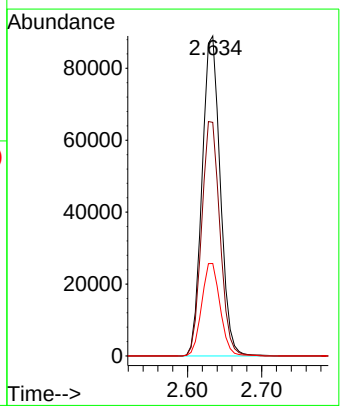


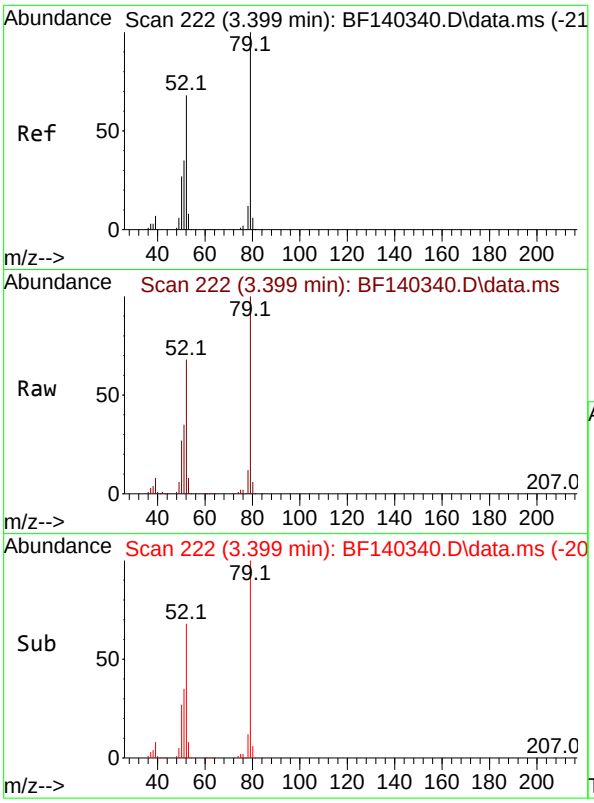


#2
1,4-Dioxane
Concen: 39.442 ng
RT: 2.634 min Scan# 92
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 88 Resp: 151541

Ion	Ratio	Lower	Upper
88	100		
58	73.8	59.5	89.3
43	29.4	23.4	35.2



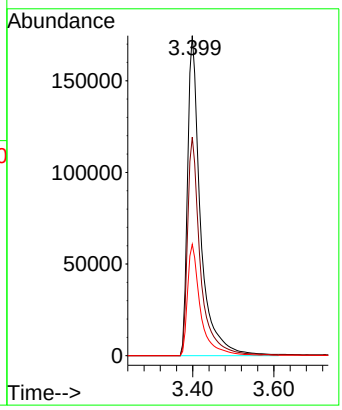


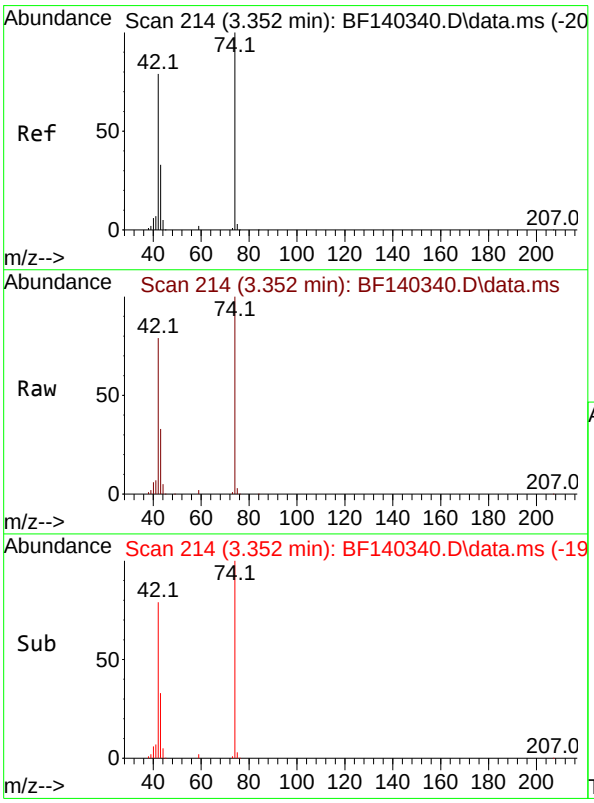
#3
Pyridine
Concen: 41.019 ng
RT: 3.399 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 387454

Ion	Ratio	Lower	Upper
79	100		
52	68.3	53.8	80.6
51	34.8	27.3	40.9

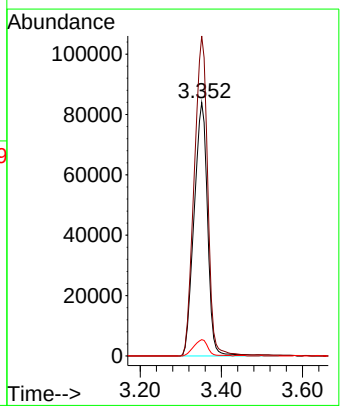


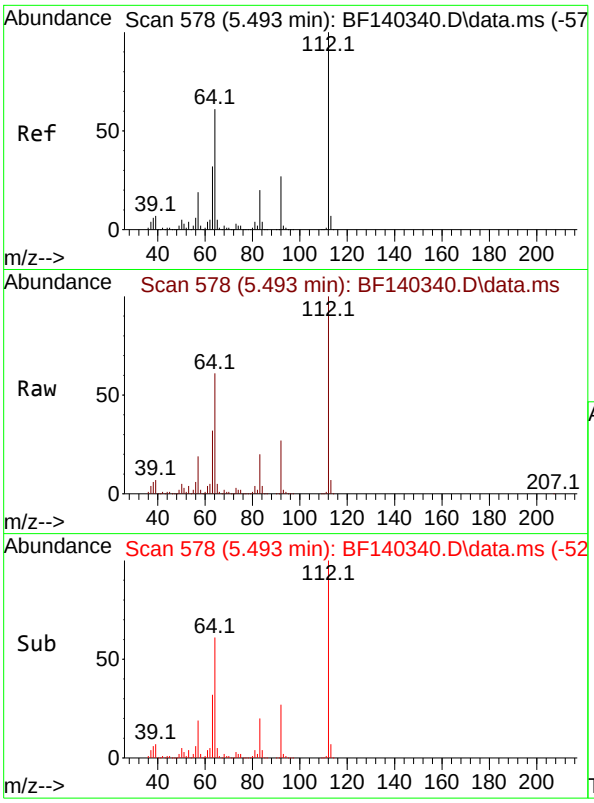


#4
n-Nitrosodimethylamine
Concen: 40.620 ng
RT: 3.352 min Scan# 214
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 42 Resp: 193917

Ion	Ratio	Lower	Upper
42	100		
74	126.3	103.5	155.3
44	6.4	5.1	7.7



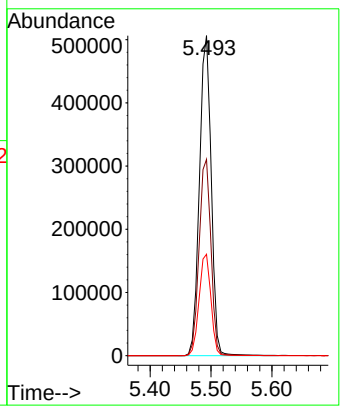


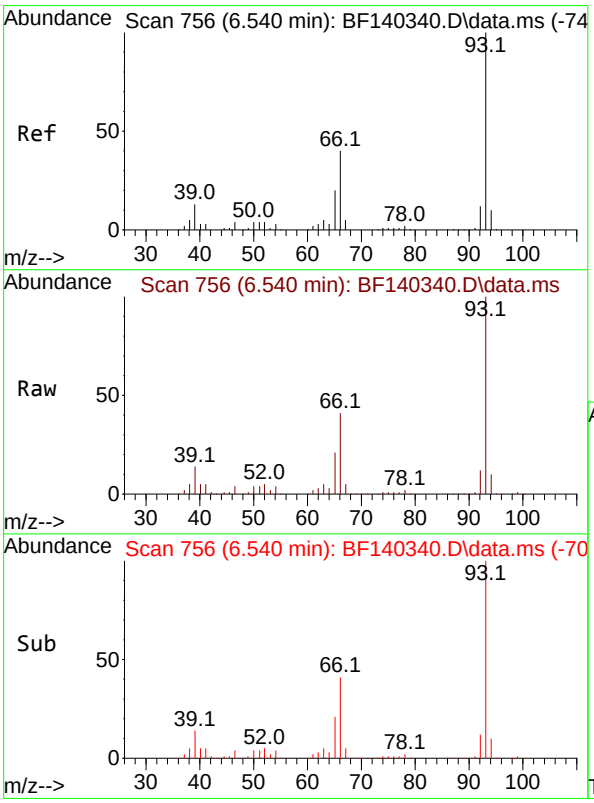
#5
2-Fluorophenol
Concen: 78.544 ng
RT: 5.493 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 677089

Ion	Ratio	Lower	Upper
112	100		
64	61.3	49.2	73.8
63	31.7	25.6	38.4

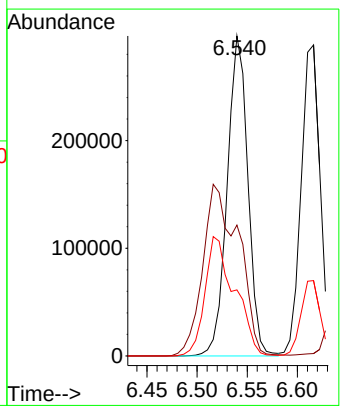


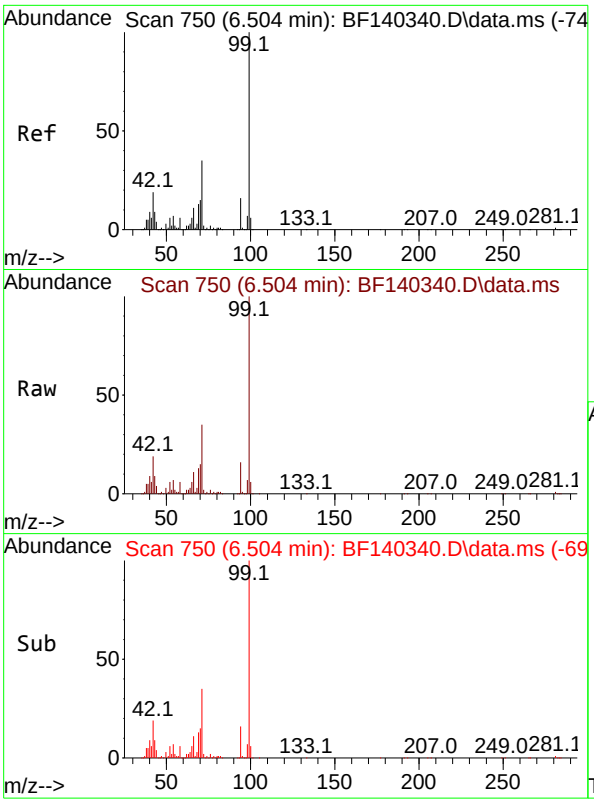


#6
Aniline
Concen: 42.052 ng
RT: 6.540 min Scan# 756
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 93 Resp: 427252

Ion	Ratio	Lower	Upper
93	100		
66	40.9	32.8	49.2
65	20.6	16.6	25.0



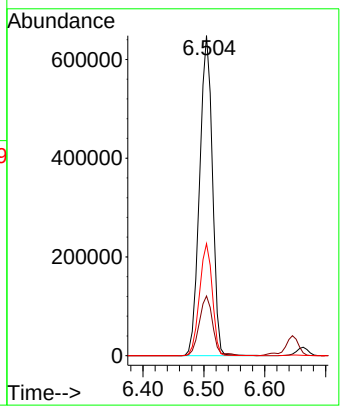


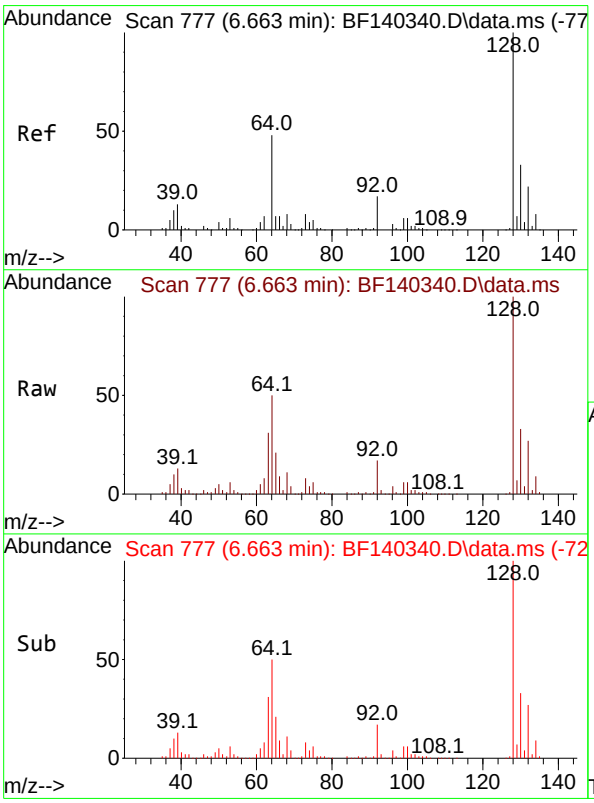
#7
Phenol-d6
Concen: 80.918 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 945074

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.1	22.7
71	35.0	27.9	41.9

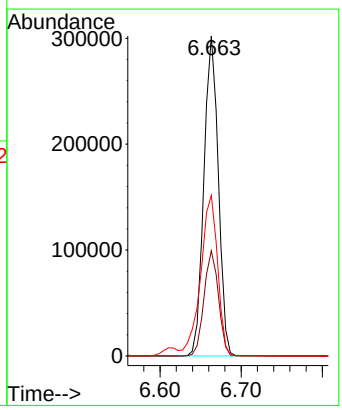


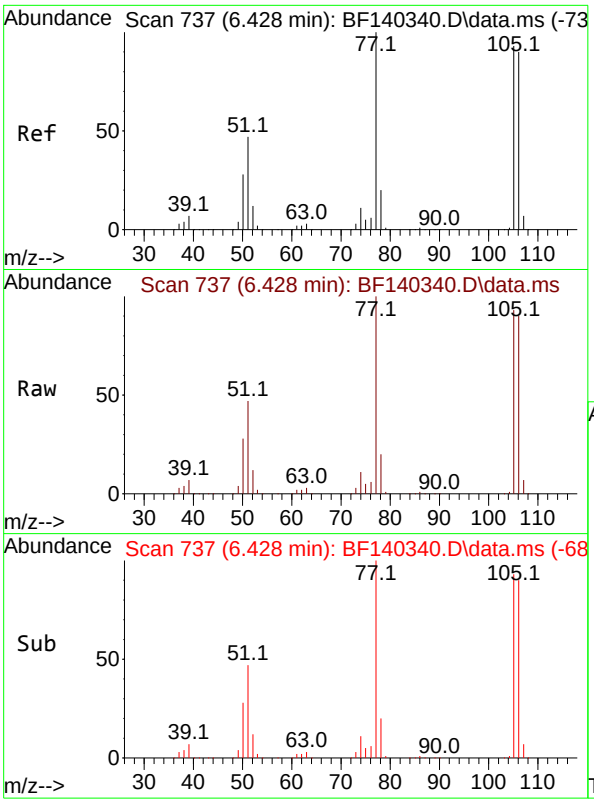


#8
2-Chlorophenol
Concen: 40.162 ng
RT: 6.663 min Scan# 777
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:128 Resp: 371904

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.2	52.2
64	50.2	30.2	70.2



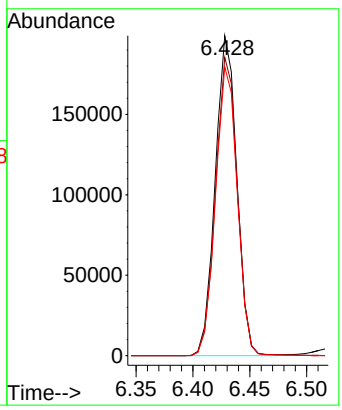


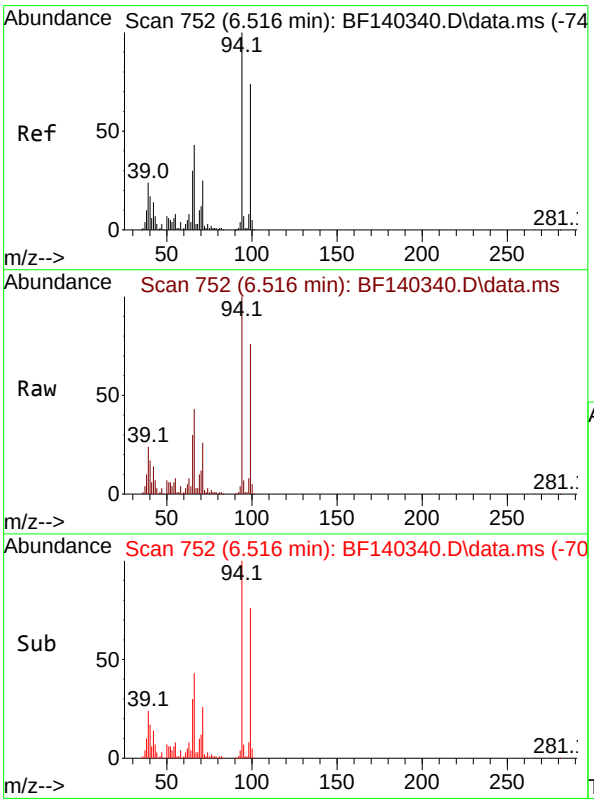
#9
Benzaldehyde
Concen: 37.479 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 262348

Ion	Ratio	Lower	Upper
77	100		
105	93.2	74.4	114.4
106	90.2	69.9	109.9

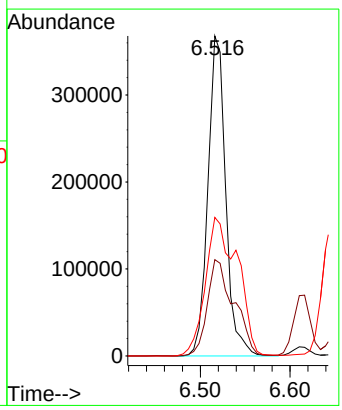


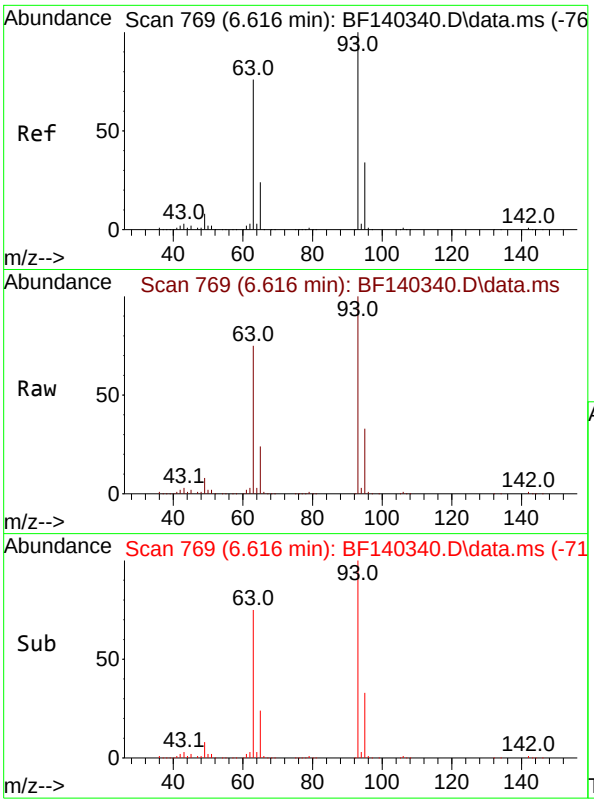


#10
Phenol
Concen: 41.199 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 94 Resp: 507443

Ion	Ratio	Lower	Upper
94	100		
65	30.1	10.4	50.4
66	43.3	22.9	62.9



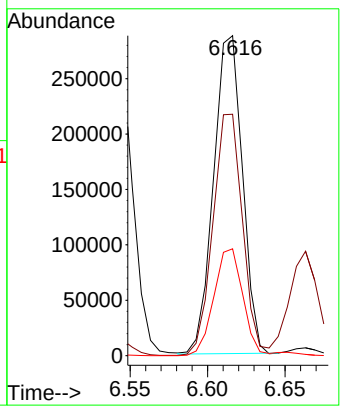


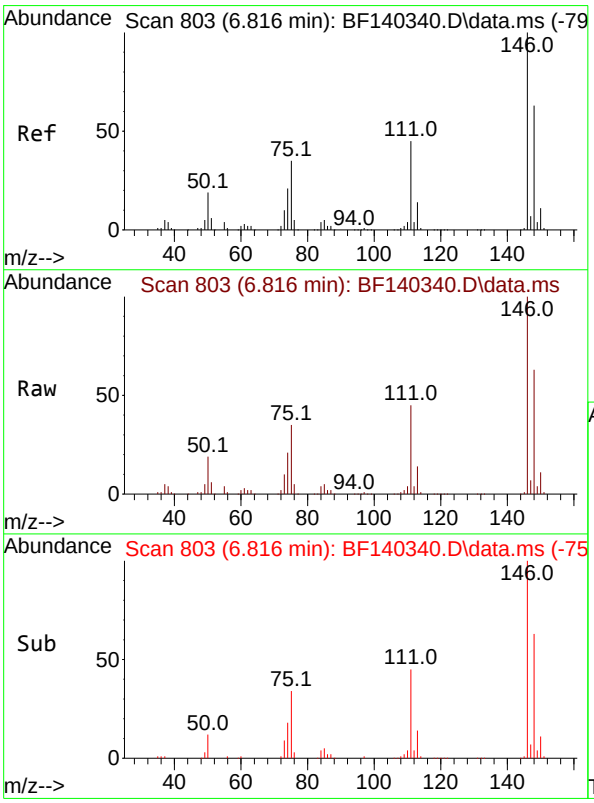
#11
bis(2-Chloroethyl)ether
Concen: 39.825 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 371673

Ion	Ratio	Lower	Upper
93	100		
63	75.5	54.0	94.0
95	33.4	12.9	52.9

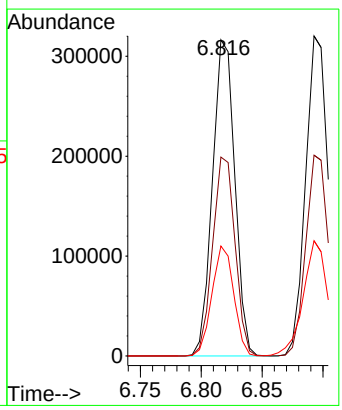


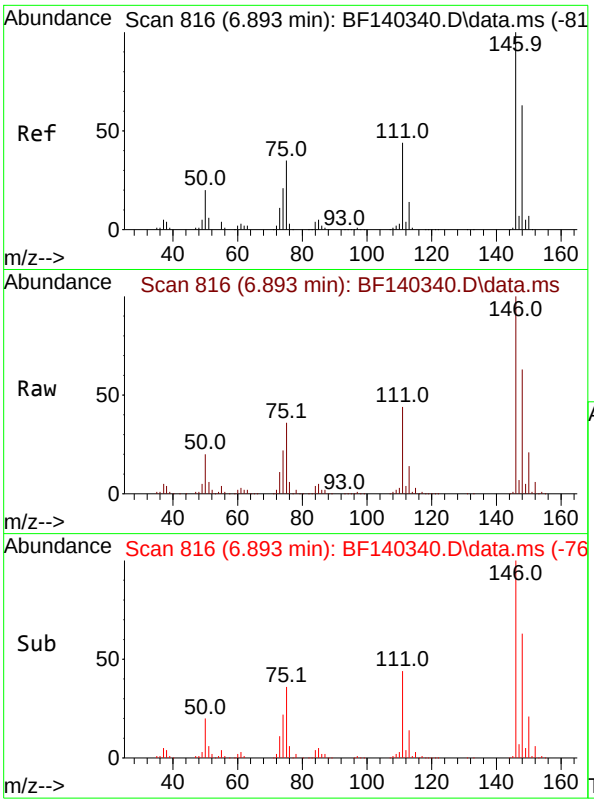


#12
1,3-Dichlorobenzene
Concen: 39.579 ng
RT: 6.816 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:146 Resp: 404387

Ion	Ratio	Lower	Upper
146	100		
148	62.9	50.7	76.1
75	34.8	26.4	39.6



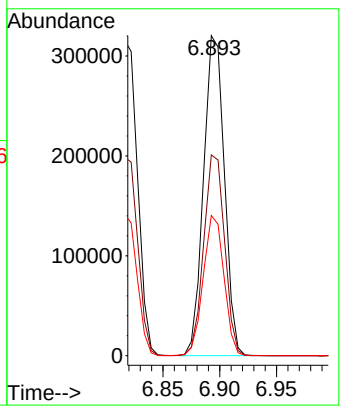


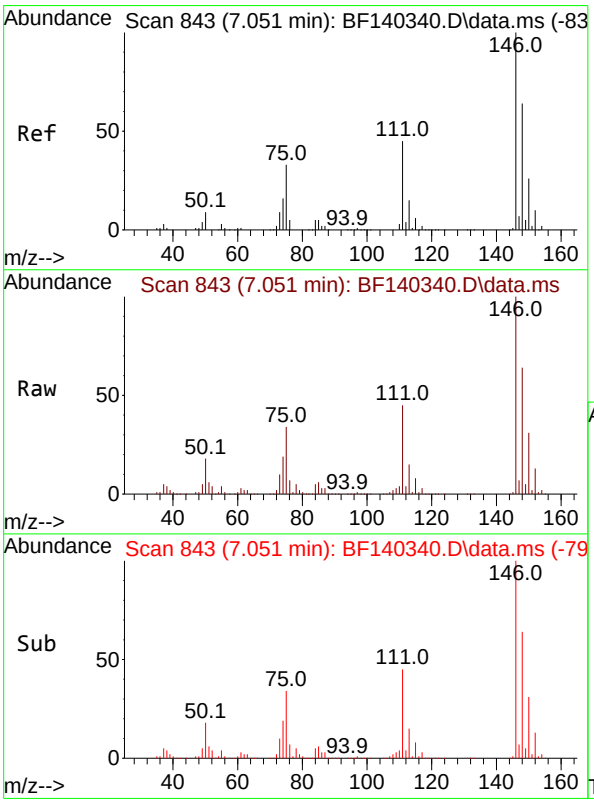
#13
1,4-Dichlorobenzene
Concen: 39.520 ng
RT: 6.893 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 409423

Ion	Ratio	Lower	Upper
146	100		
148	62.7	50.8	76.2
111	43.8	34.2	51.2

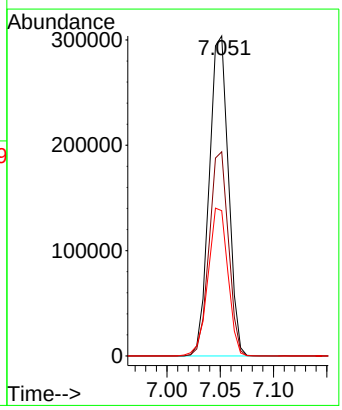


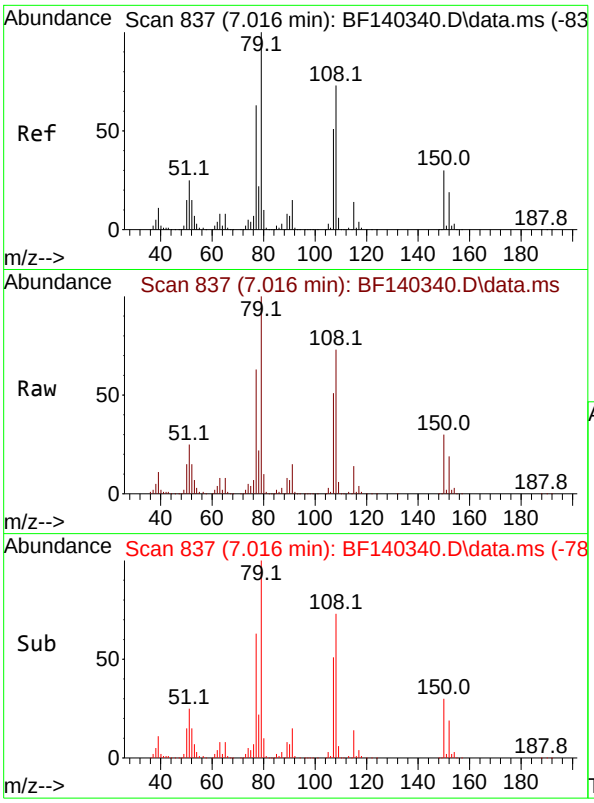


#14
1,2-Dichlorobenzene
Concen: 39.610 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:146 Resp: 380948

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.2	76.8
111	45.4	36.5	54.7



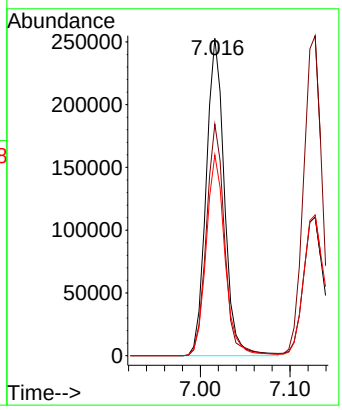


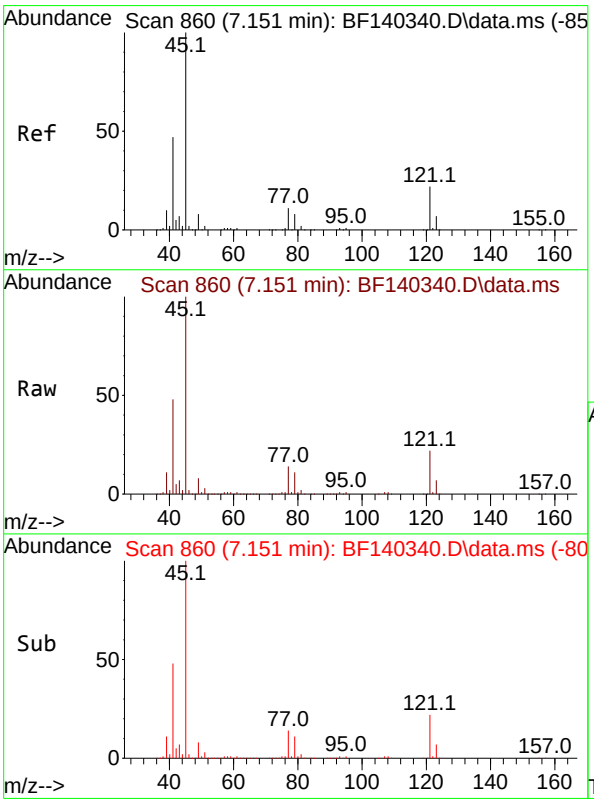
#15
Benzyl Alcohol
Concen: 42.357 ng
RT: 7.016 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 356418

Ion	Ratio	Lower	Upper
79	100		
108	73.0	57.8	86.6
77	63.3	49.8	74.6

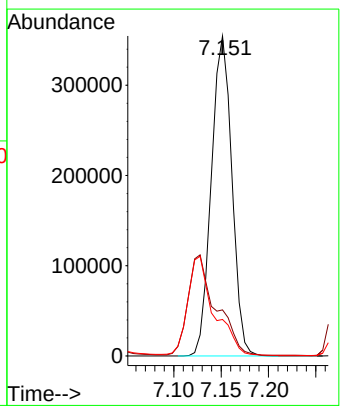


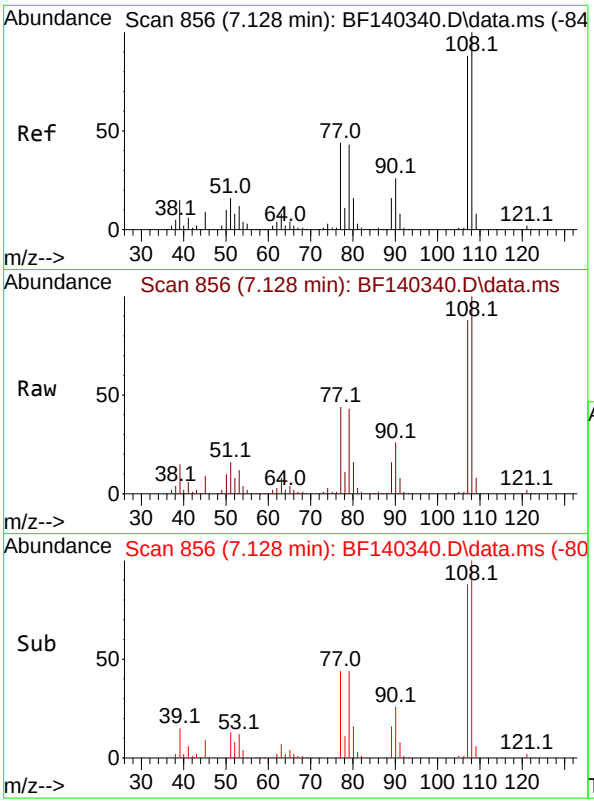


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.471 ng
RT: 7.151 min Scan# 860
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 45 Resp: 534596

Ion	Ratio	Lower	Upper
45	100		
77	14.4	0.0	34.8
79	11.4	0.0	31.4



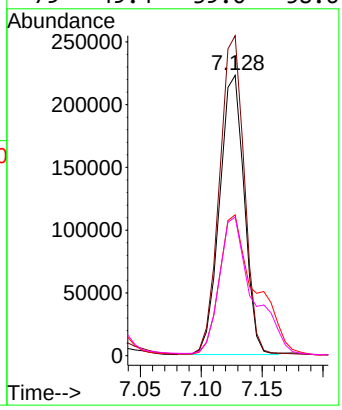


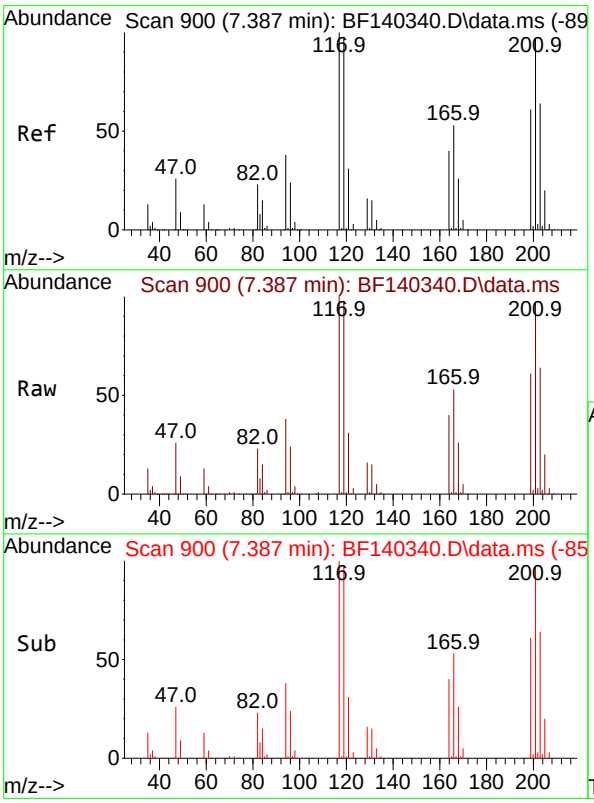
#17
2-Methylphenol
Concen: 41.105 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 313127

Ion	Ratio	Lower	Upper
107	100		
108	114.1	91.9	137.9
77	50.2	39.7	59.5
79	49.4	39.0	58.6

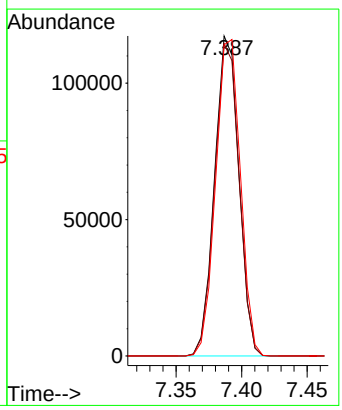


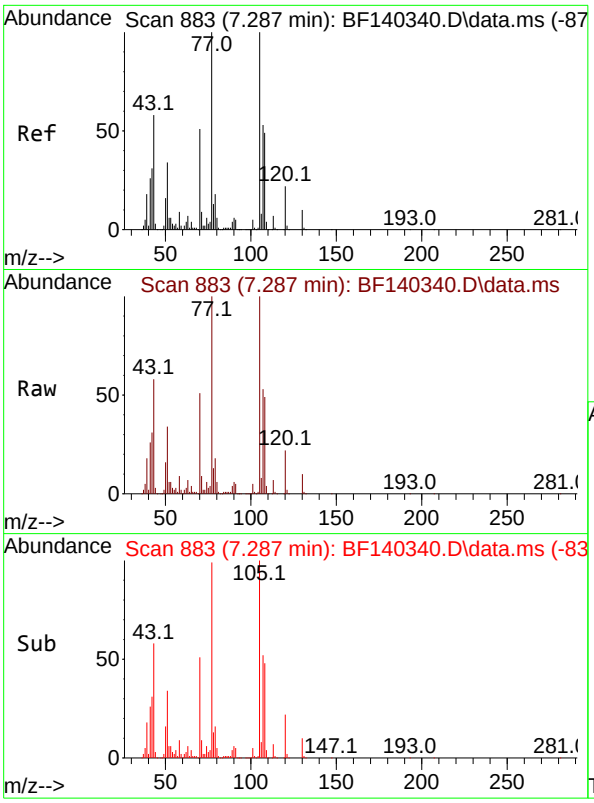


#18
Hexachloroethane
Concen: 39.519 ng
RT: 7.387 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:117 Resp: 151355

Ion	Ratio	Lower	Upper
117	100		
119	97.6	76.9	115.3
201	97.3	80.2	120.4



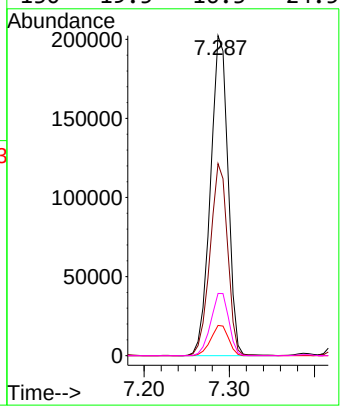


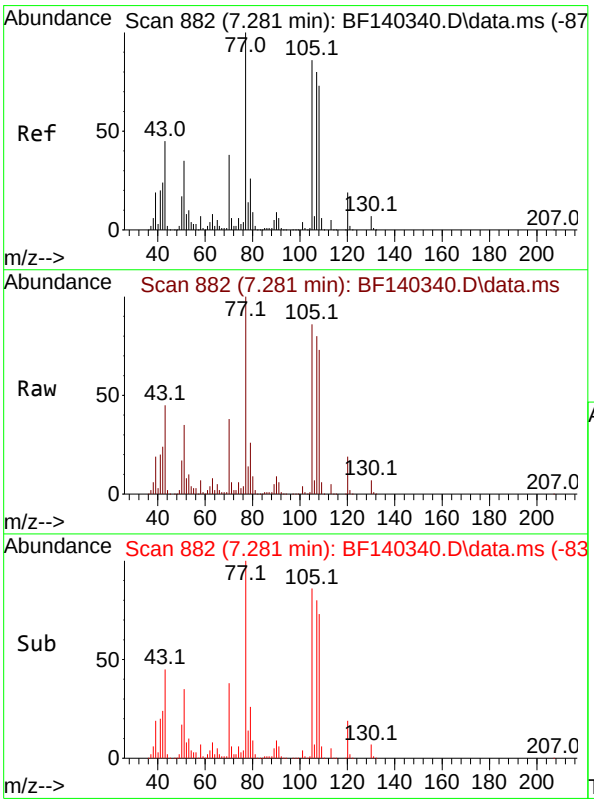
#19
n-Nitroso-di-n-propylamine
Concen: 40.966 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 288974

Ion	Ratio	Lower	Upper
70	100		
42	60.0	46.8	70.2
101	9.4	7.5	11.3
130	19.5	16.3	24.5

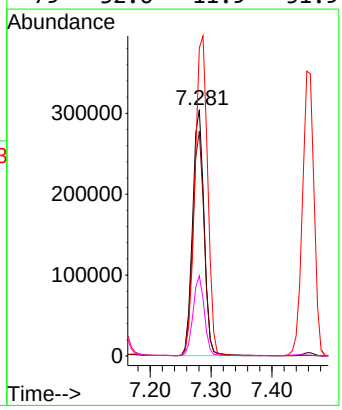


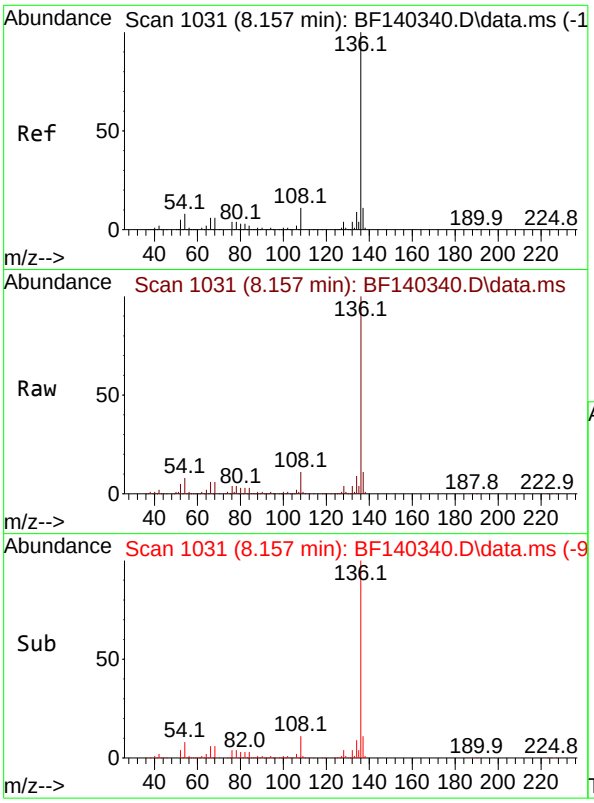


#20
3+4-Methylphenols
Concen: 41.745 ng
RT: 7.281 min Scan# 882
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:107 Resp: 397692

Ion	Ratio	Lower	Upper
107	100		
108	91.3	71.4	111.4
77	125.1	97.0	137.0
79	32.6	11.9	51.9



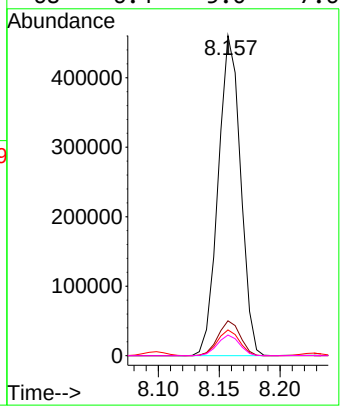


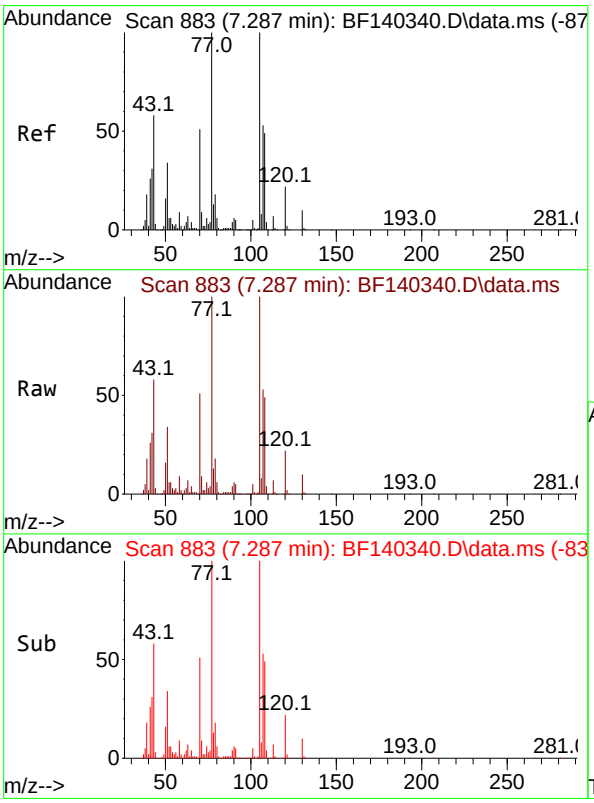
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 589077

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	8.1	6.5	9.7
68	6.4	5.0	7.6

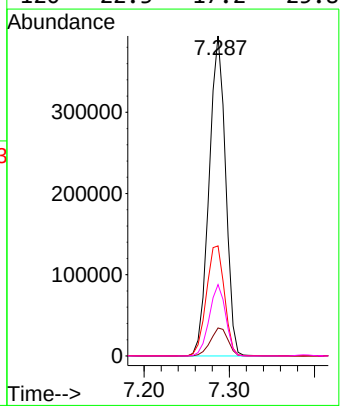


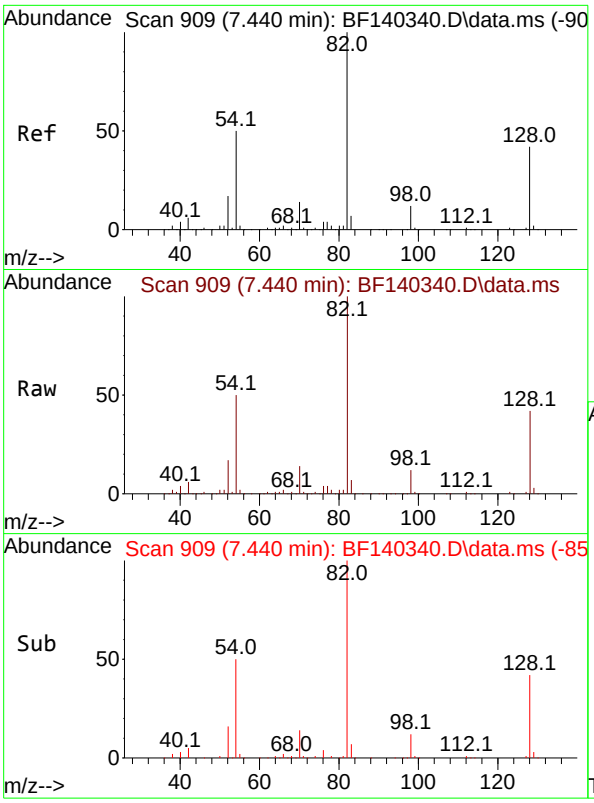


#22
Acetophenone
Concen: 38.662 ng
RT: 7.287 min Scan# 883
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:105 Resp: 529699

Ion	Ratio	Lower	Upper
105	100		
71	8.7	6.9	10.3
51	34.4	28.6	43.0
120	22.3	17.2	25.8



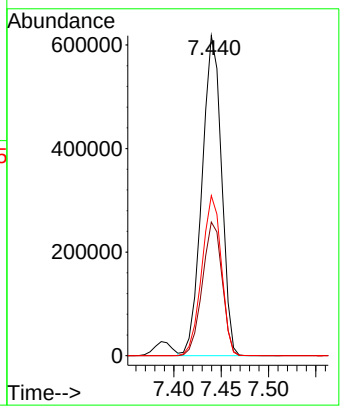


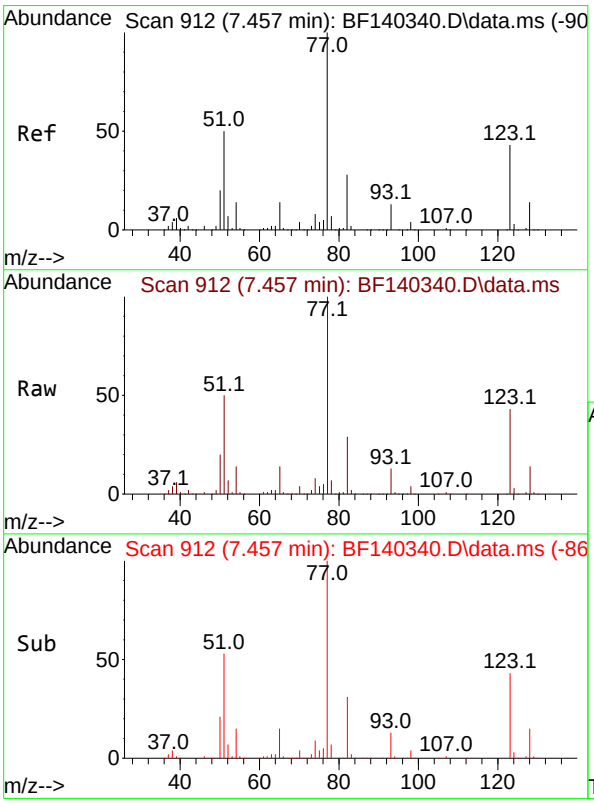
#23
Nitrobenzene-d5
Concen: 78.210 ng
RT: 7.440 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 884247

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.3	49.9
54	50.0	39.8	59.8

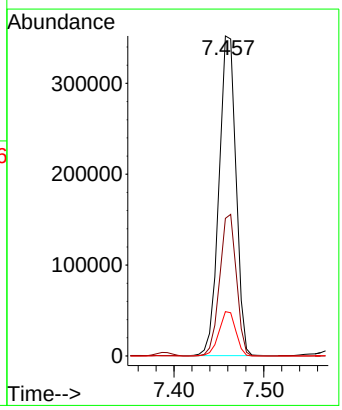


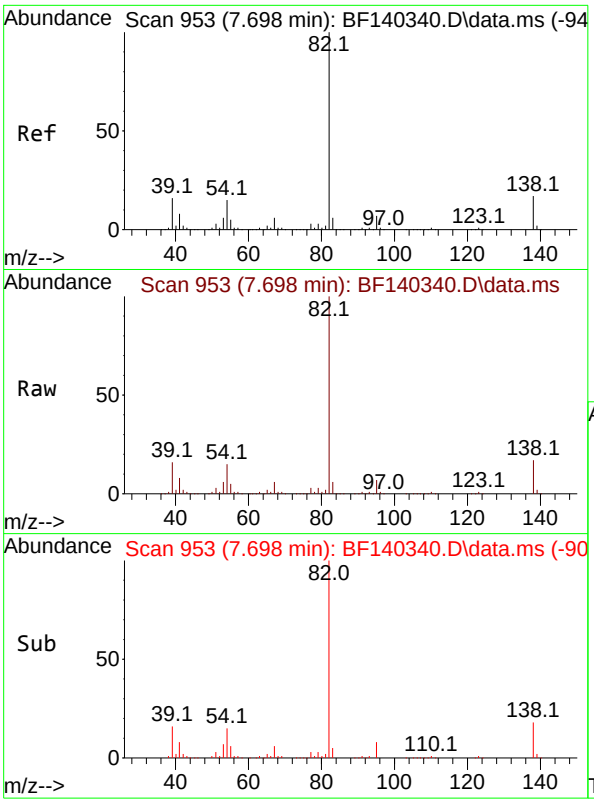


#24
Nitrobenzene
Concen: 39.307 ng
RT: 7.457 min Scan# 912
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 77 Resp: 462701

Ion	Ratio	Lower	Upper
77	100		
123	43.0	35.4	53.0
65	13.8	11.1	16.7



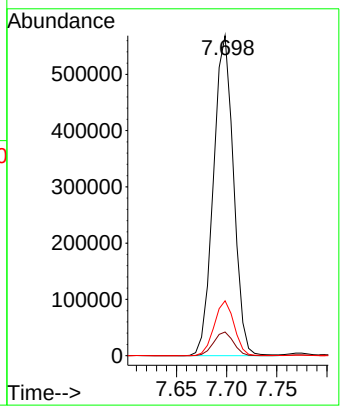


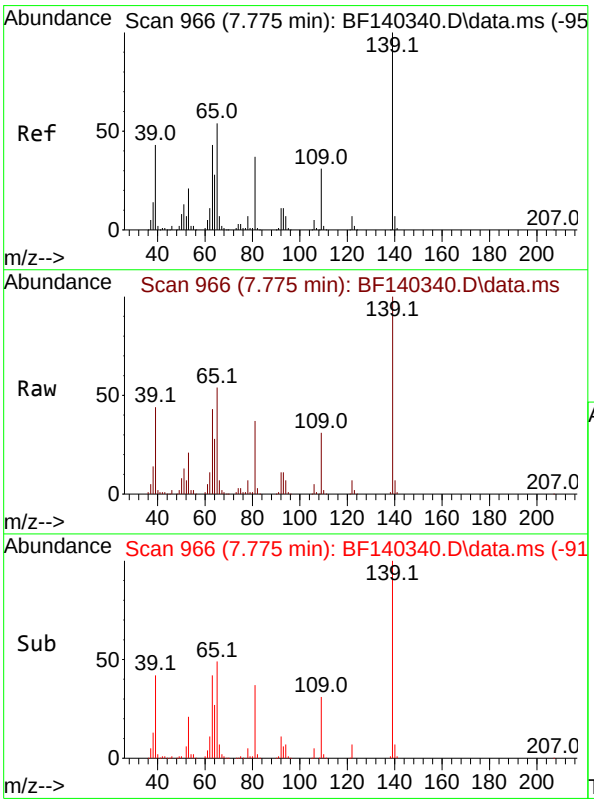
#25
Isophorone
Concen: 39.616 ng
RT: 7.698 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 793806

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.9	8.9
138	17.2	13.4	20.2

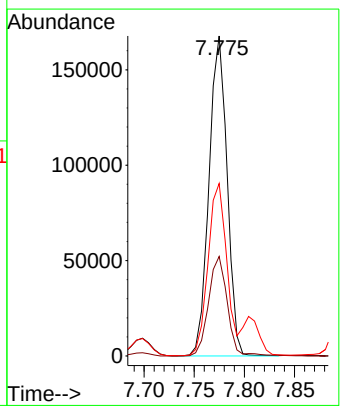


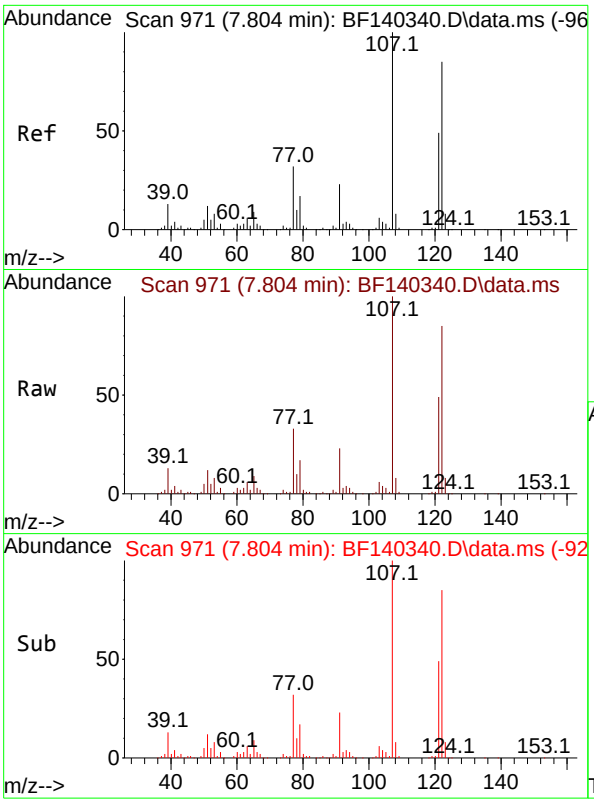


#26
2-Nitrophenol
Concen: 40.366 ng
RT: 7.775 min Scan# 966
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:139 Resp: 210859

Ion	Ratio	Lower	Upper
139	100		
109	31.1	24.4	36.6
65	53.9	42.8	64.2



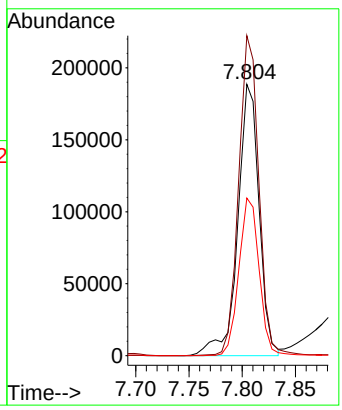


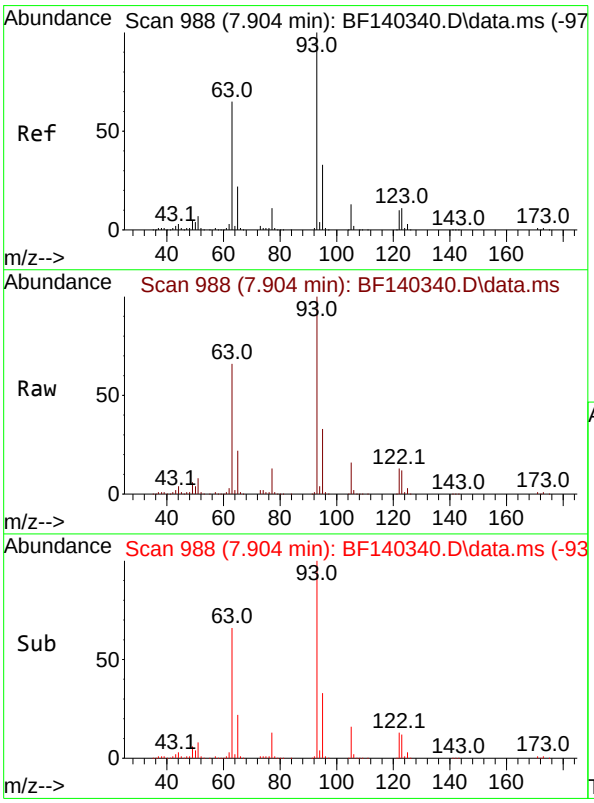
#27
2,4-Dimethylphenol
Concen: 39.222 ng
RT: 7.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 262308

Ion	Ratio	Lower	Upper
122	100		
107	117.9	91.3	136.9
121	58.1	45.5	68.3

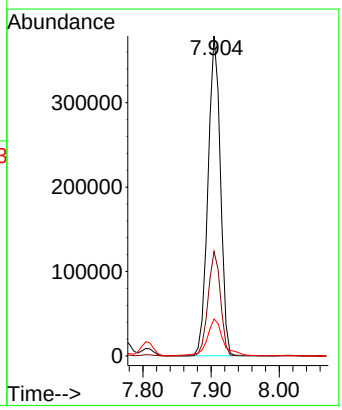


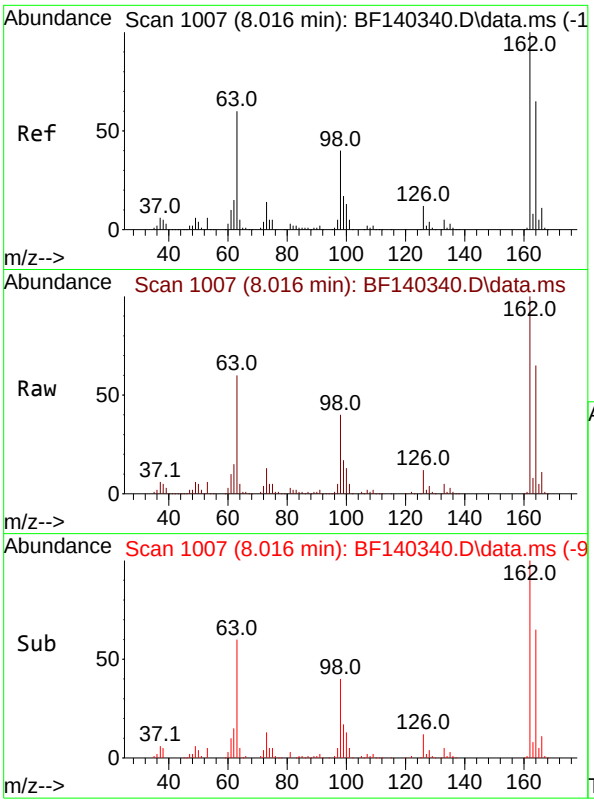


#28
bis(2-Chloroethoxy)methane
Concen: 39.027 ng
RT: 7.904 min Scan# 988
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 93 Resp: 479505

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.9	38.9
123	11.6	9.2	13.8



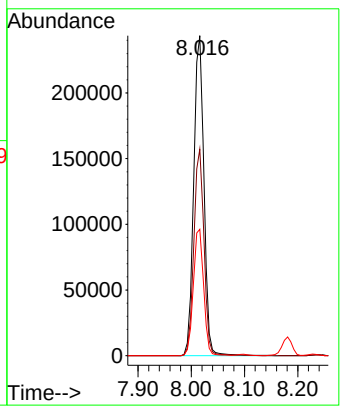


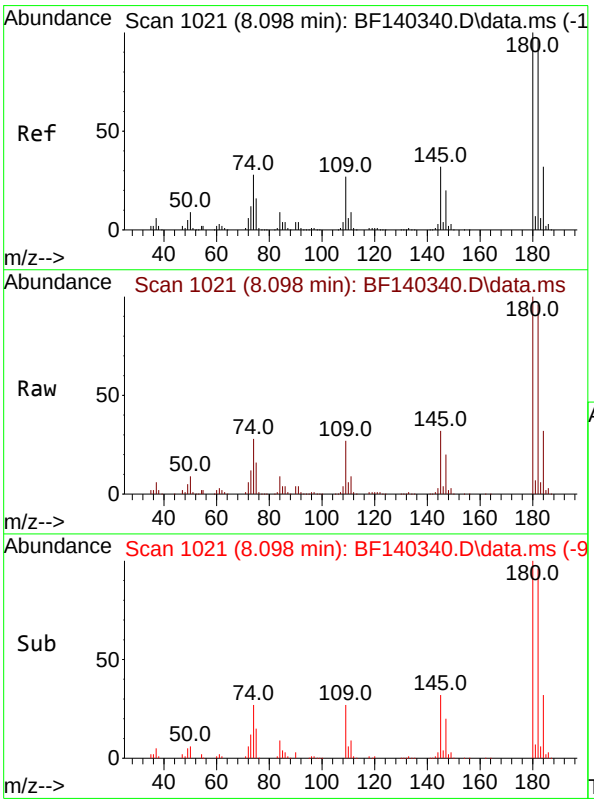
#29
2,4-Dichlorophenol
Concen: 39.193 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 323936

Ion	Ratio	Lower	Upper
162	100		
164	64.6	45.4	85.4
98	39.5	19.9	59.9

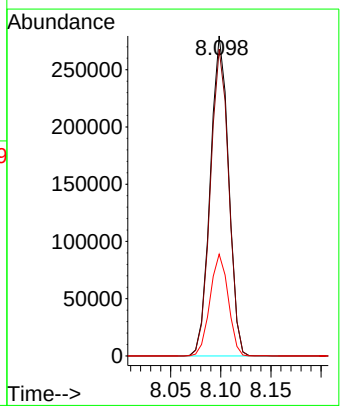


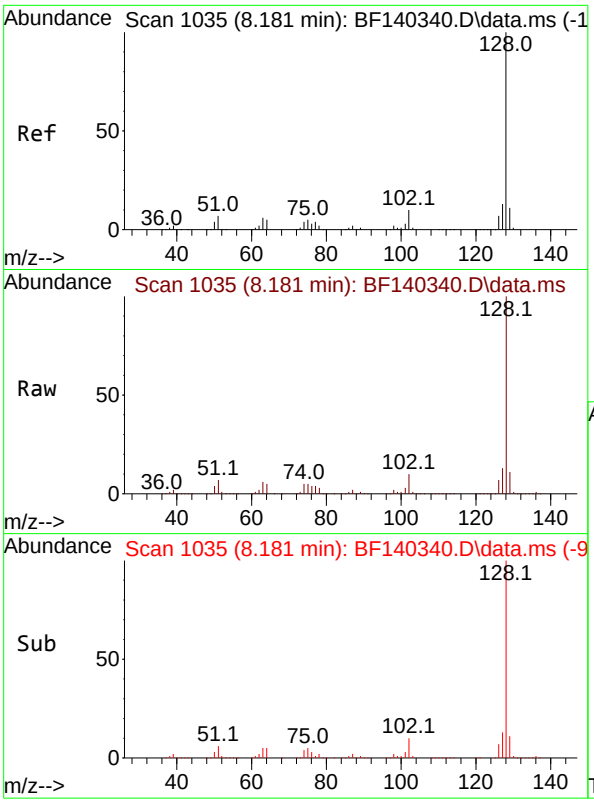


#30
1,2,4-Trichlorobenzene
Concen: 38.619 ng
RT: 8.098 min Scan# 1021
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:180 Resp: 355366

Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.5	114.7
145	31.8	25.3	37.9



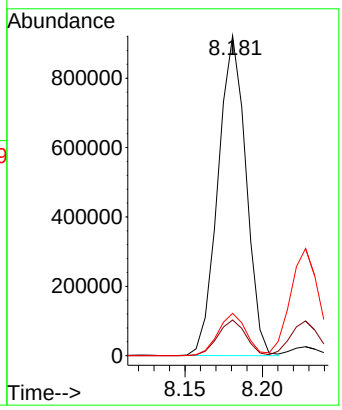


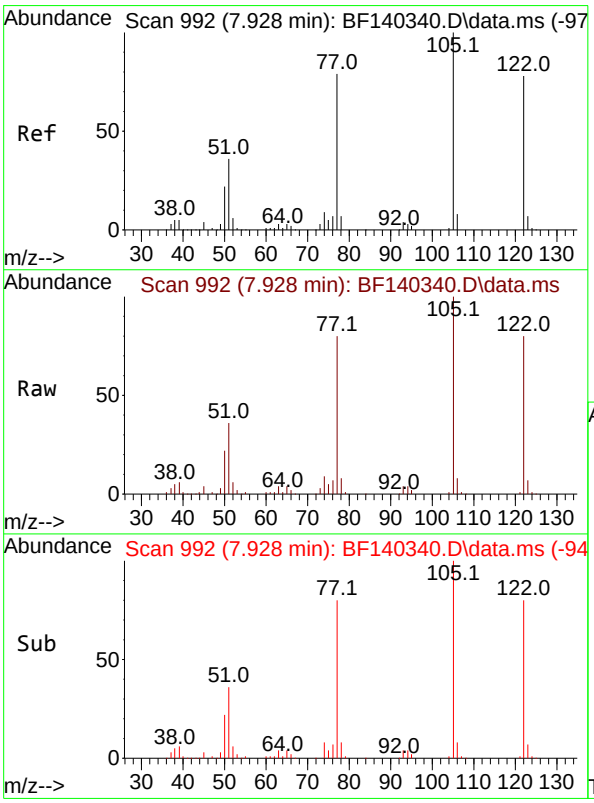
#31
Naphthalene
Concen: 38.723 ng
RT: 8.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 1157149

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.6	15.8

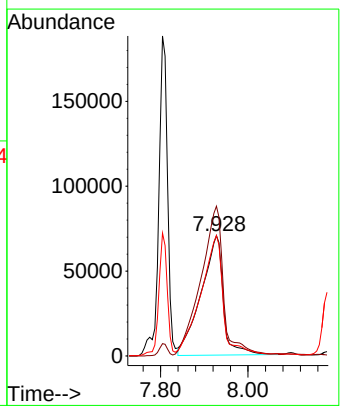


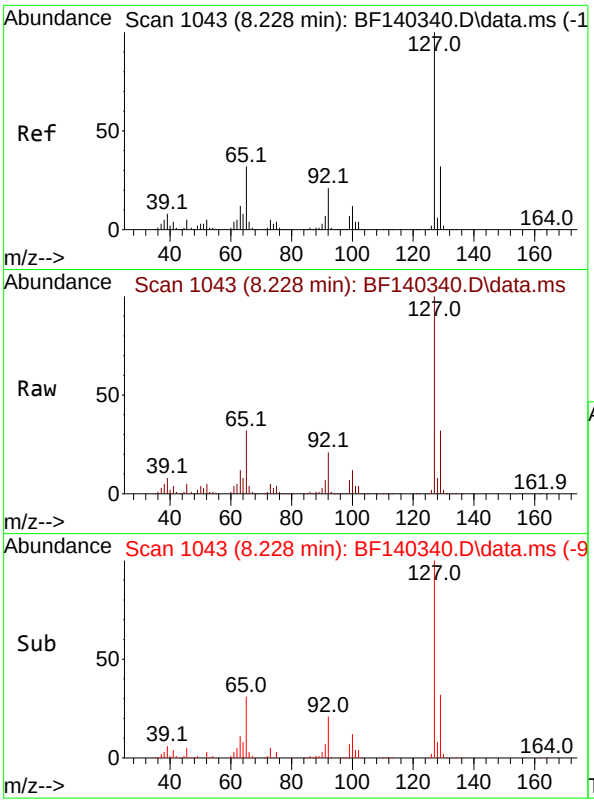


#32
Benzoic acid
Concen: 42.449 ng
RT: 7.928 min Scan# 992
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:122 Resp: 249383

Ion	Ratio	Lower	Upper
122	100		
105	124.5	100.9	140.9
77	100.1	76.0	116.0



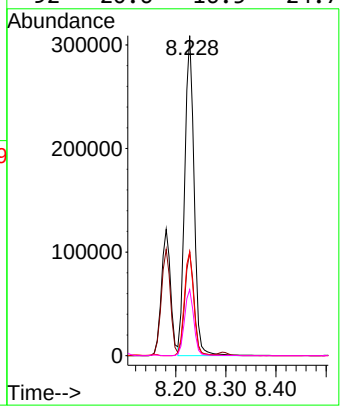


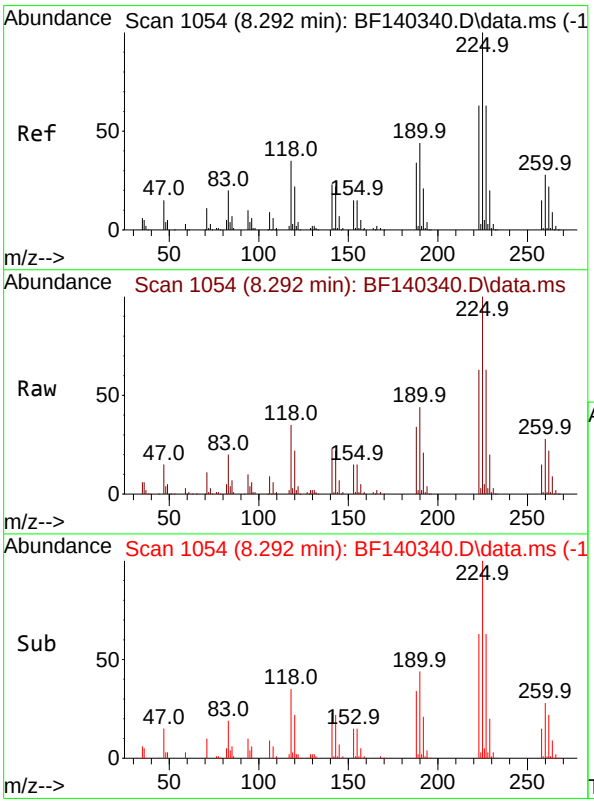
#33
4-Chloroaniline
Concen: 38.516 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 400271

Ion	Ratio	Lower	Upper
127	100		
129	32.3	26.2	39.4
65	32.5	25.8	38.6
92	20.6	16.5	24.7

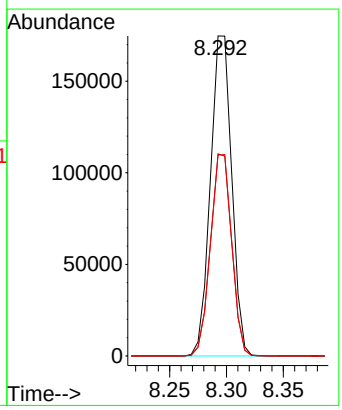


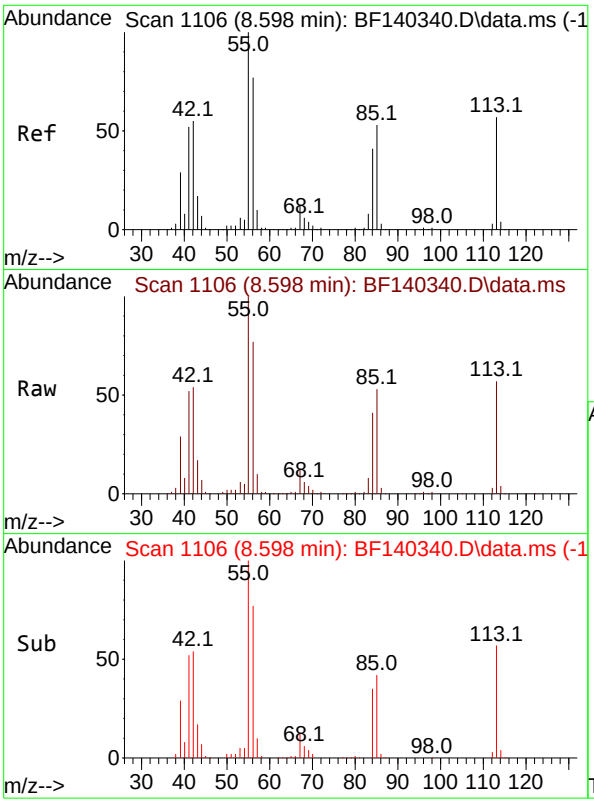


#34
Hexachlorobutadiene
Concen: 38.855 ng
RT: 8.292 min Scan# 1054
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:225 Resp: 227805

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.1	75.1
227	62.8	51.3	76.9



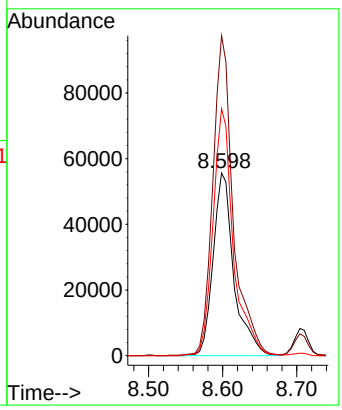


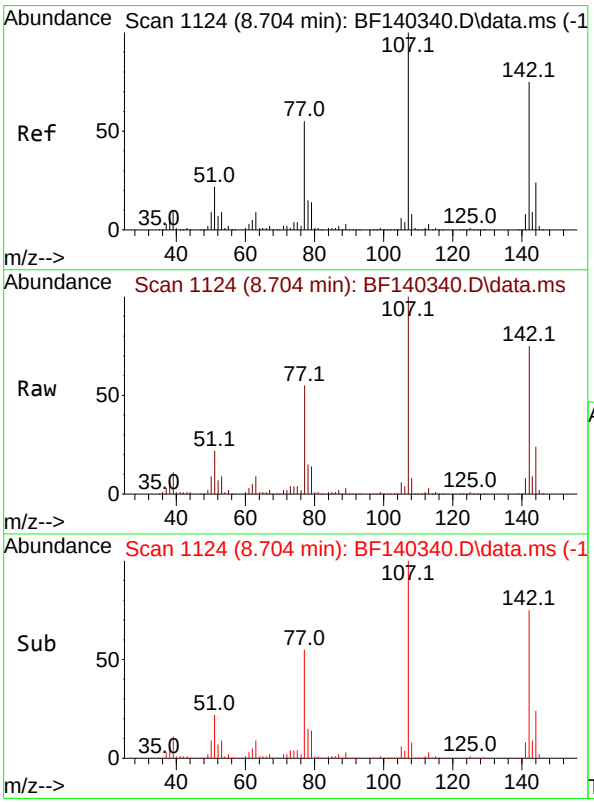
#35
Caprolactam
Concen: 38.943 ng
RT: 8.598 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 108216

Ion	Ratio	Lower	Upper
113	100		
55	175.2	150.0	190.0
56	135.2	111.1	151.1

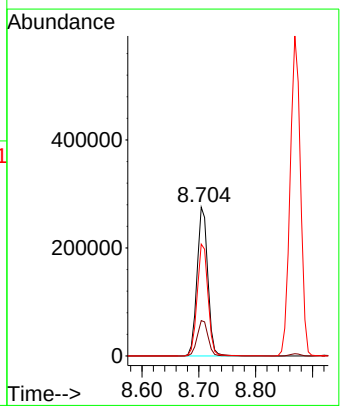


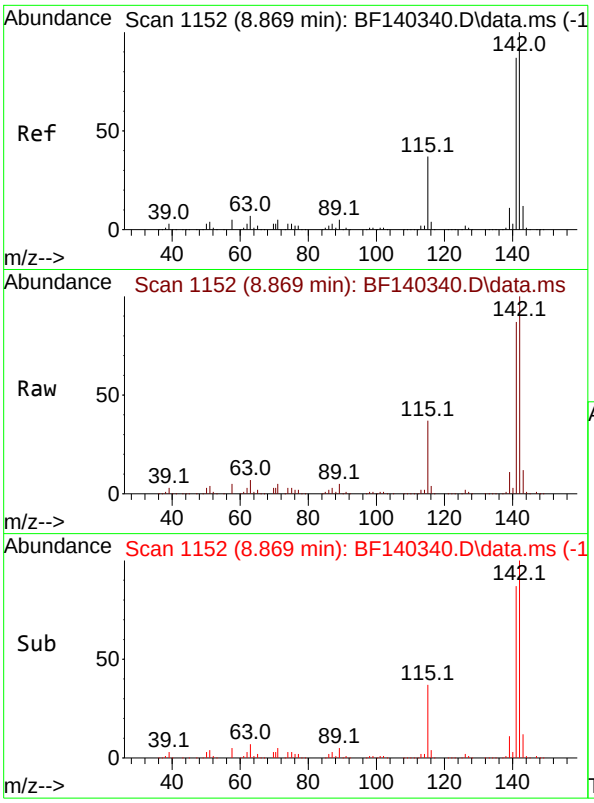


#36
4-Chloro-3-methylphenol
Concen: 39.766 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:107 Resp: 364230

Ion	Ratio	Lower	Upper
107	100		
144	23.8	19.3	28.9
142	75.1	59.4	89.0



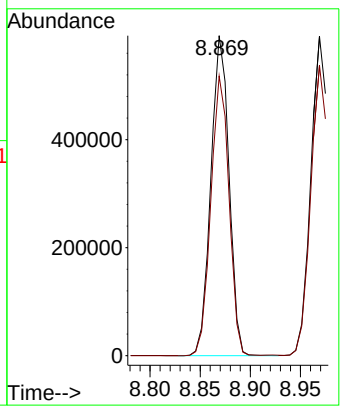


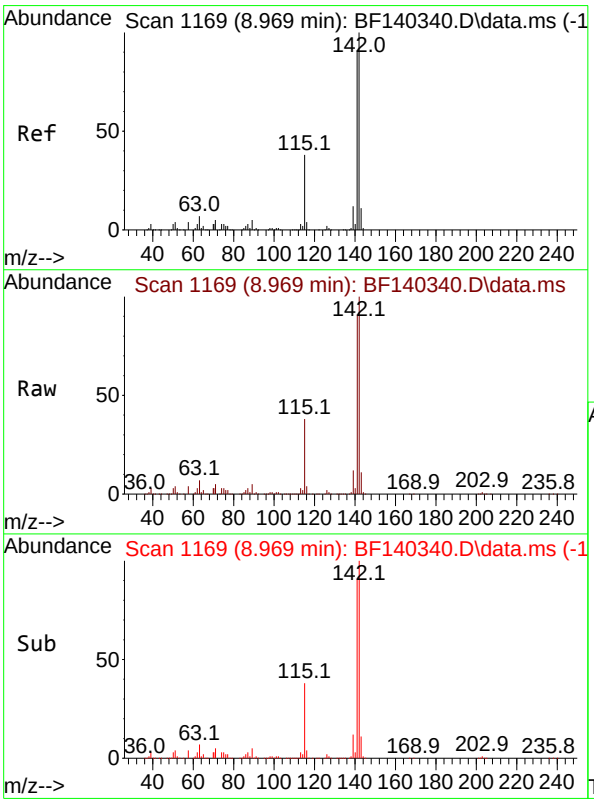
#37
2-Methylnaphthalene
Concen: 38.839 ng
RT: 8.869 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 744201

Ion	Ratio	Lower	Upper
142	100		
141	87.4	70.4	105.6

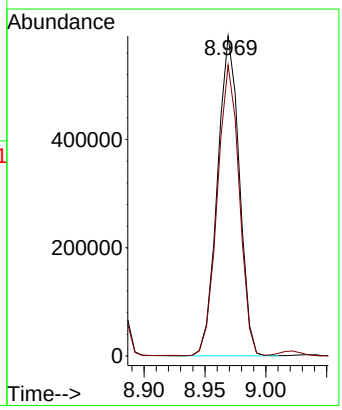


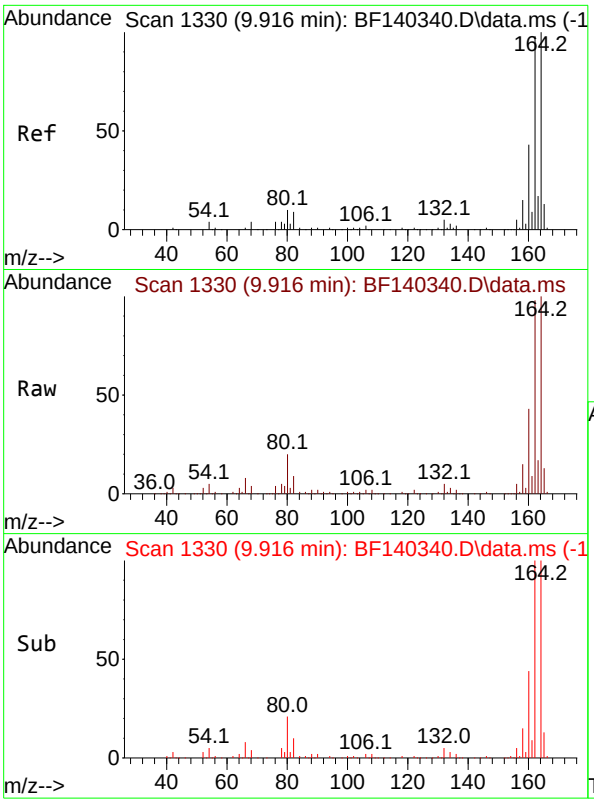


#38
1-Methylnaphthalene
Concen: 39.267 ng
RT: 8.969 min Scan# 1169
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:142 Resp: 736798

Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.6	110.4



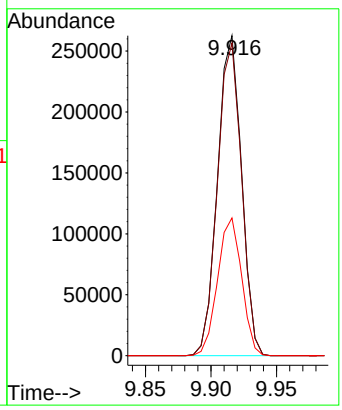


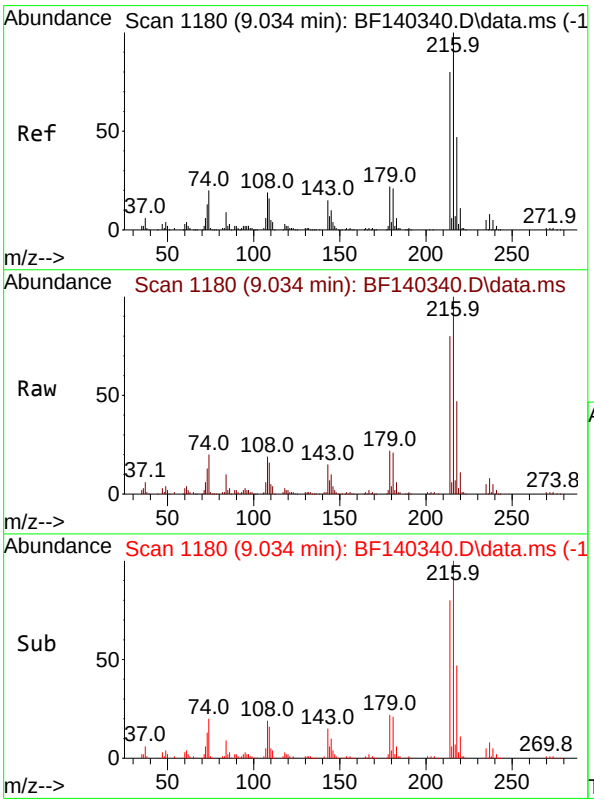
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 334544

Ion	Ratio	Lower	Upper
164	100		
162	97.7	79.8	119.8
160	43.0	35.4	53.0

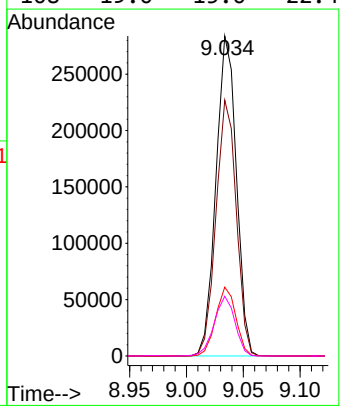


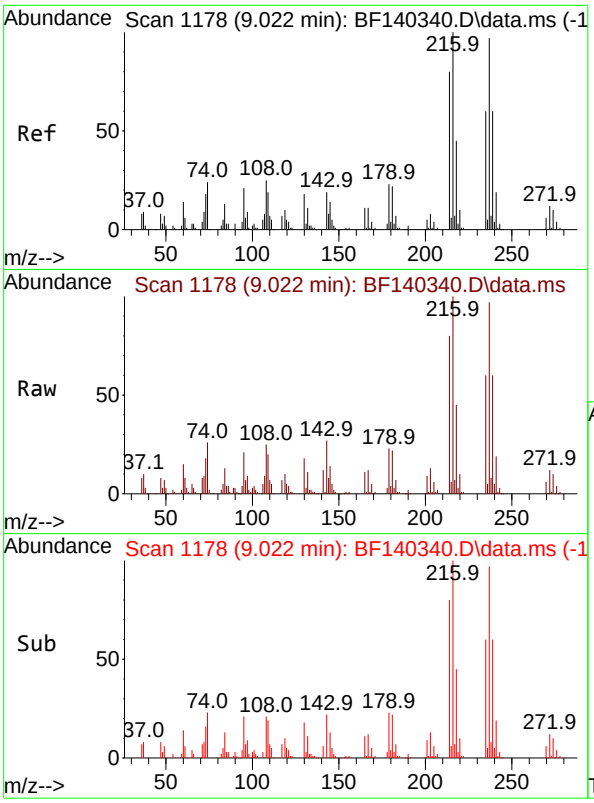


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.371 ng
RT: 9.034 min Scan# 1180
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:216 Resp: 354978

Ion	Ratio	Lower	Upper
216	100		
214	79.6	63.2	94.8
179	21.2	17.2	25.8
108	19.0	15.0	22.4



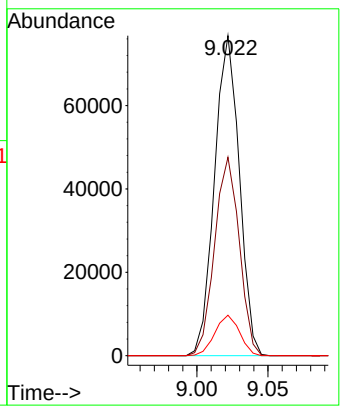


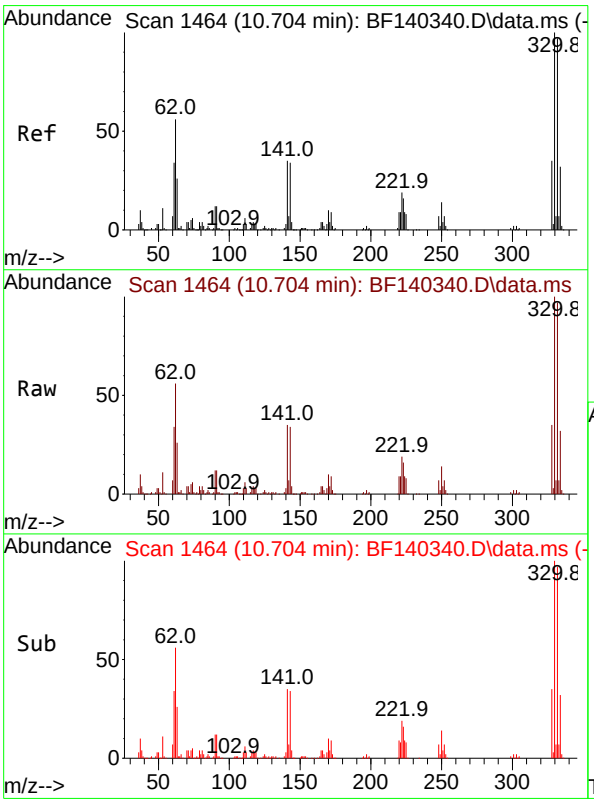
#41
Hexachlorocyclopentadiene
Concen: 39.207 ng
RT: 9.022 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 93127

Ion	Ratio	Lower	Upper
237	100		
235	62.0	42.8	82.8
272	12.7	0.0	33.1

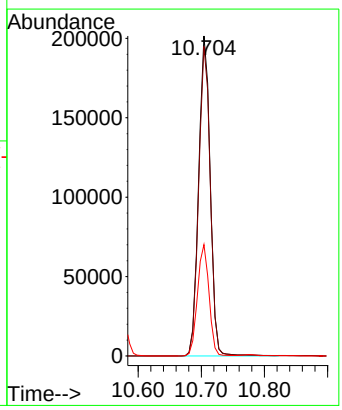


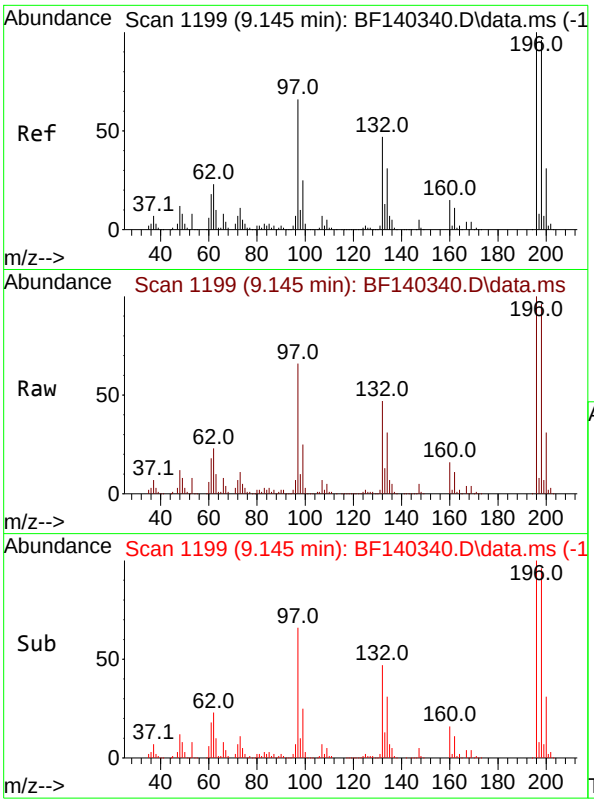


#42
2,4,6-Tribromophenol
Concen: 77.449 ng
RT: 10.704 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:330 Resp: 257655

Ion	Ratio	Lower	Upper
330	100		
332	96.8	75.9	113.9
141	34.6	26.9	40.3



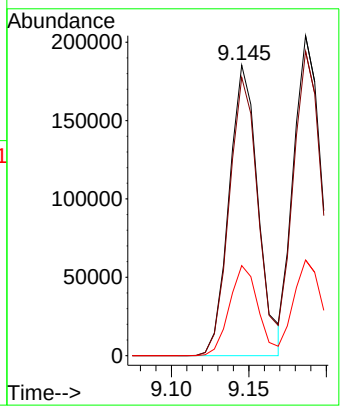


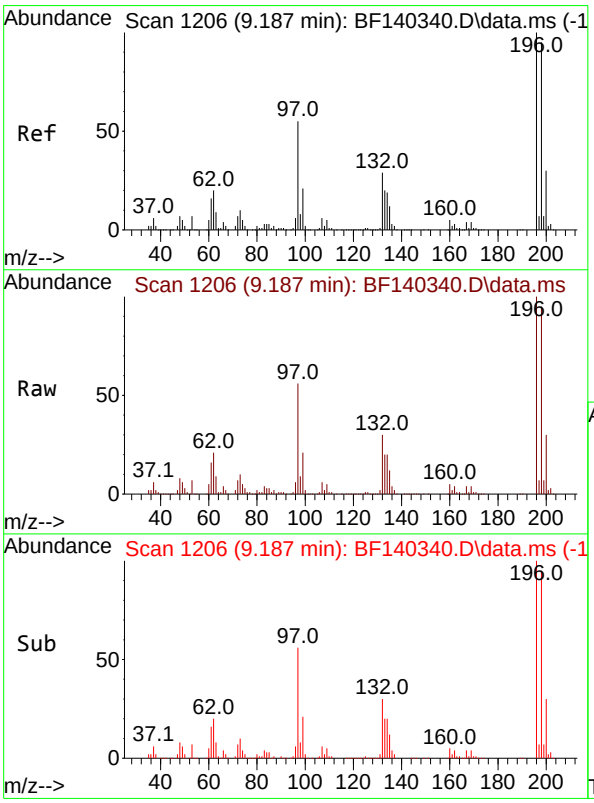
#43
2,4,6-Trichlorophenol
Concen: 39.666 ng
RT: 9.145 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 240824

Ion	Ratio	Lower	Upper
196	100		
198	95.8	77.0	115.4
200	31.0	24.2	36.4

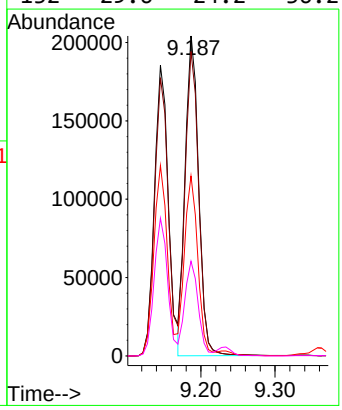


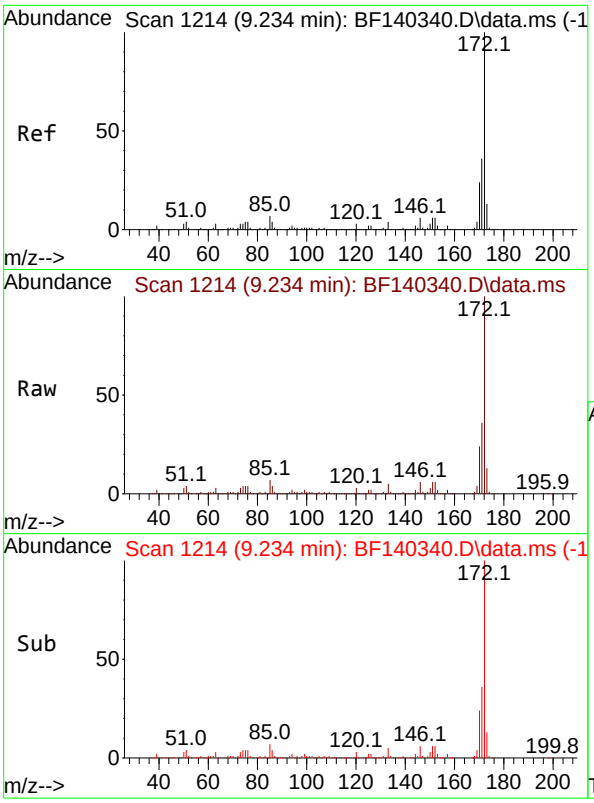


#44
2,4,5-Trichlorophenol
Concen: 39.190 ng
RT: 9.187 min Scan# 1206
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:196 Resp: 260135

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.6	116.4
97	56.2	45.4	68.2
132	29.6	24.2	36.2



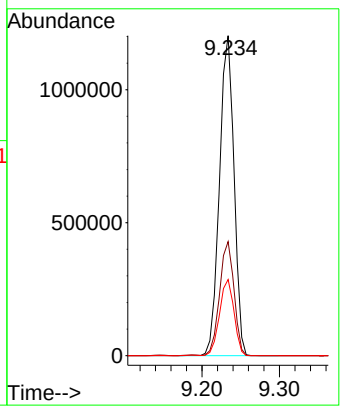


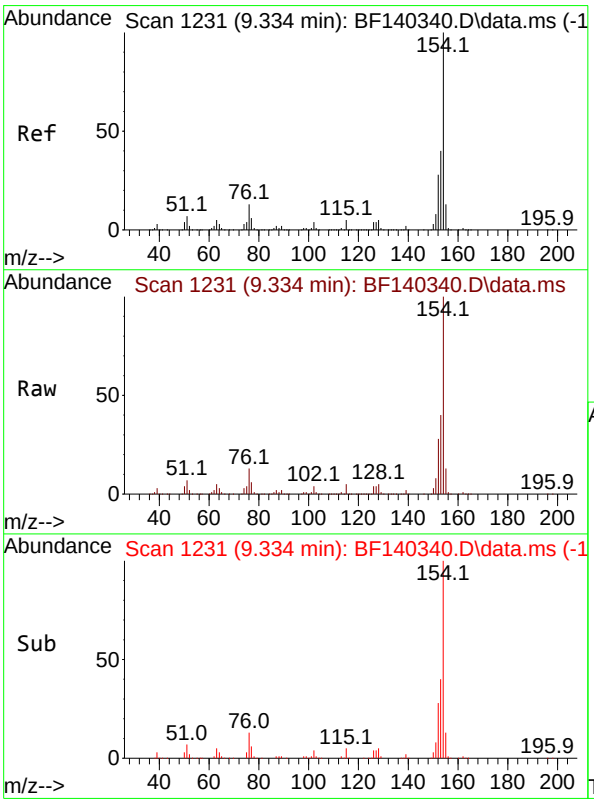
#45
2-Fluorobiphenyl
Concen: 75.369 ng
RT: 9.234 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 1568502

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.5	42.7
170	23.8	19.1	28.7

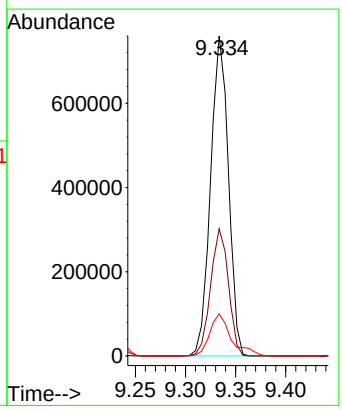


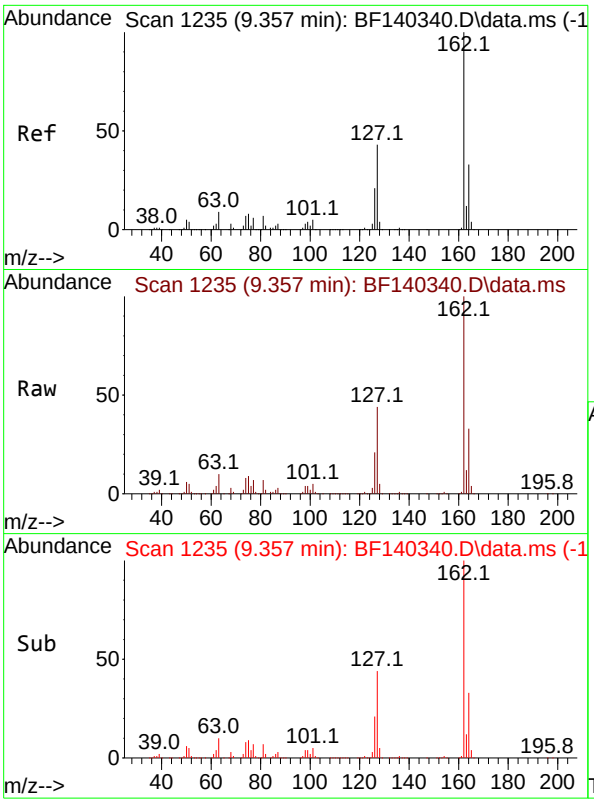


#46
1,1'-Biphenyl
Concen: 38.605 ng
RT: 9.334 min Scan# 1231
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:154 Resp: 939571

Ion	Ratio	Lower	Upper
154	100		
153	39.7	20.4	60.4
76	13.2	0.0	32.9



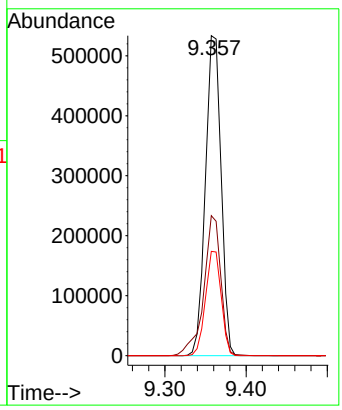


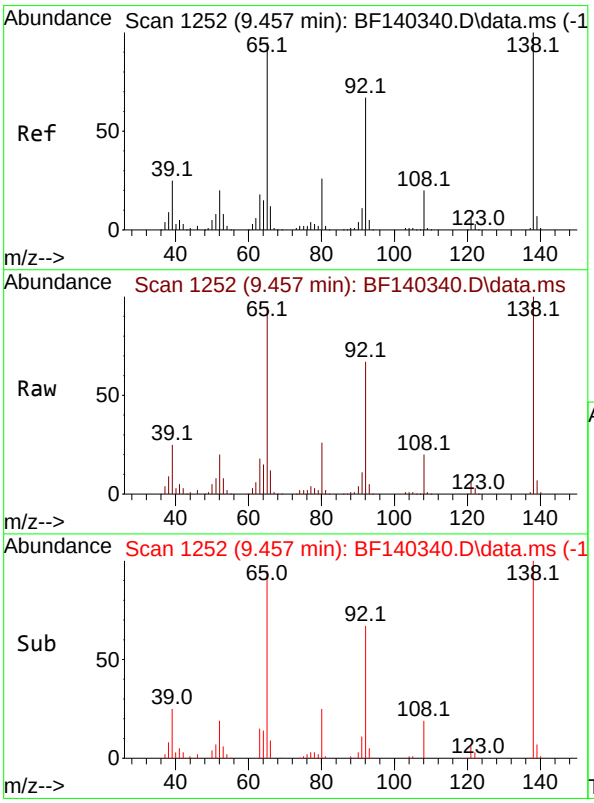
#47
2-Chloronaphthalene
Concen: 38.453 ng
RT: 9.357 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 712904

Ion	Ratio	Lower	Upper
162	100		
127	43.7	34.0	51.0
164	32.6	26.5	39.7

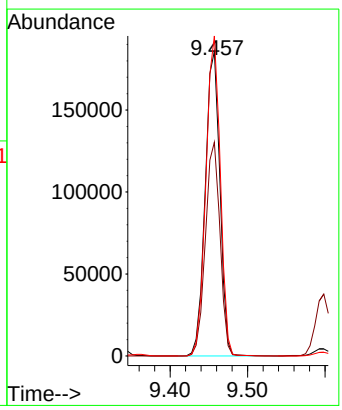


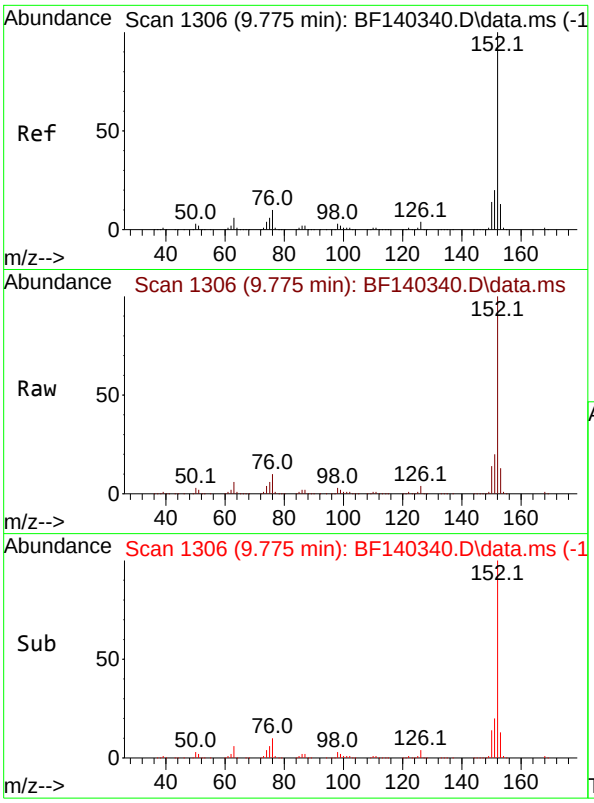


#48
2-Nitroaniline
Concen: 39.621 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 65 Resp: 243614

Ion	Ratio	Lower	Upper
65	100		
92	70.2	56.4	84.6
138	105.1	84.8	127.2



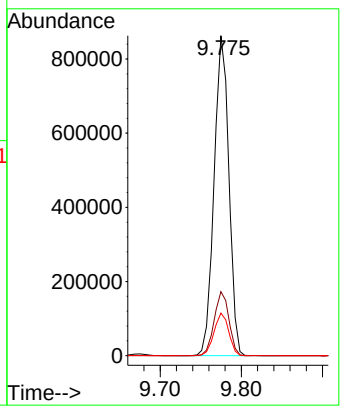


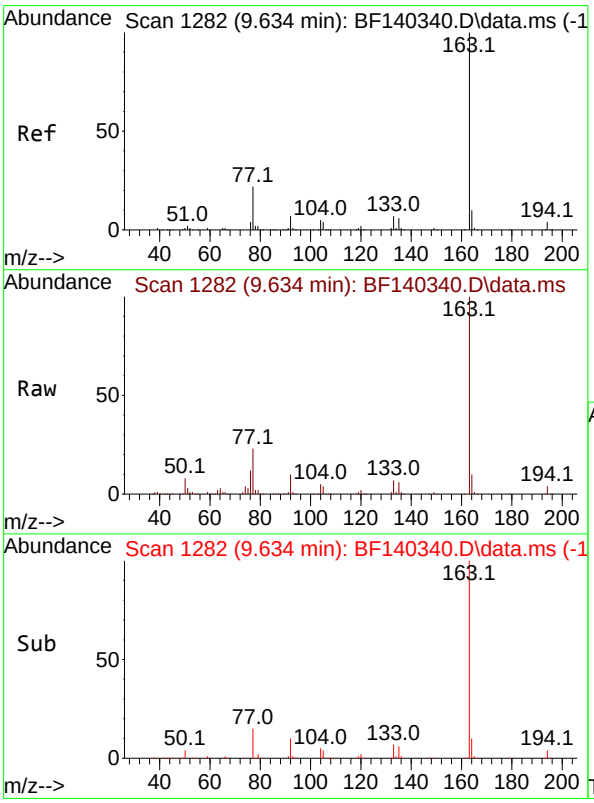
#49
Acenaphthylene
Concen: 39.012 ng
RT: 9.775 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 1094318

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.1	24.1
153	13.3	10.7	16.1

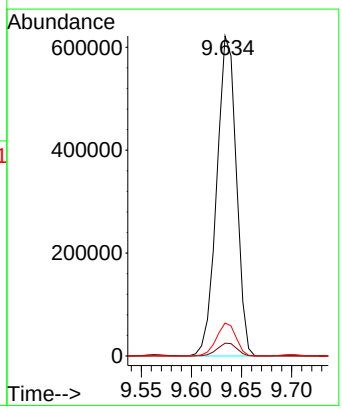


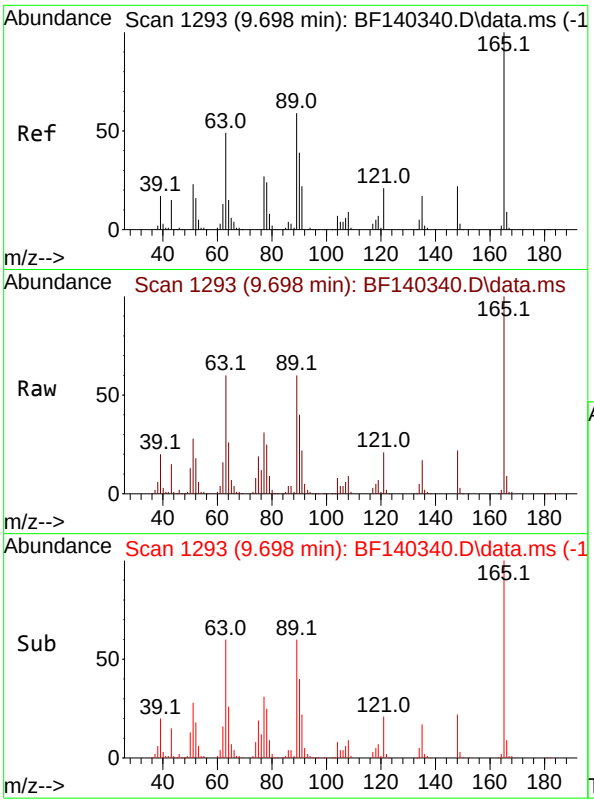


#50
Dimethylphthalate
Concen: 38.694 ng
RT: 9.634 min Scan# 1282
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:163 Resp: 843750

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.3	8.2	12.4



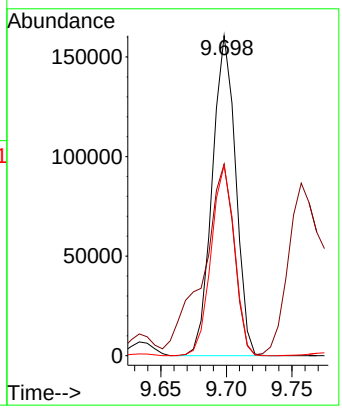


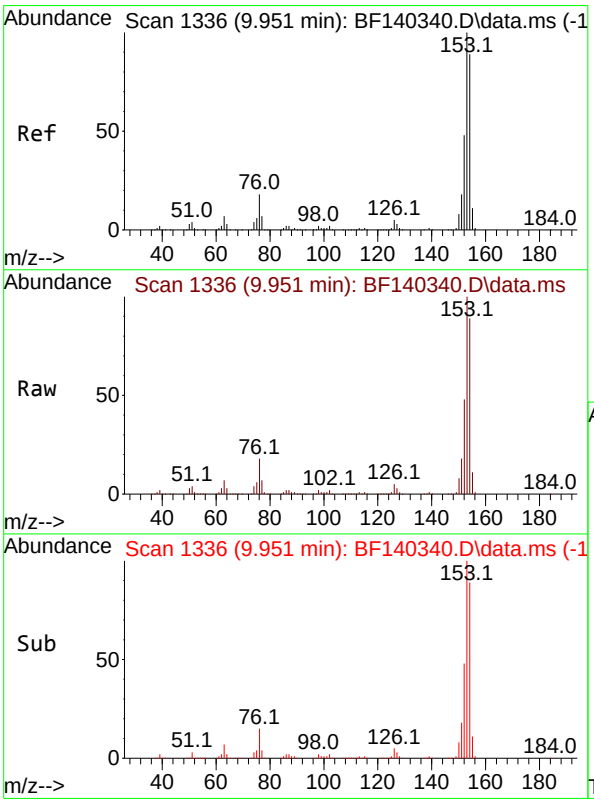
#51
2,6-Dinitrotoluene
Concen: 40.024 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 198967

Ion	Ratio	Lower	Upper
165	100		
63	59.9	47.6	71.4
89	59.5	48.1	72.1

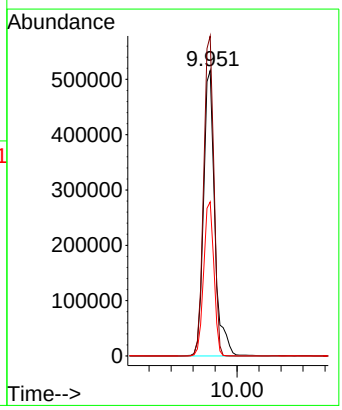


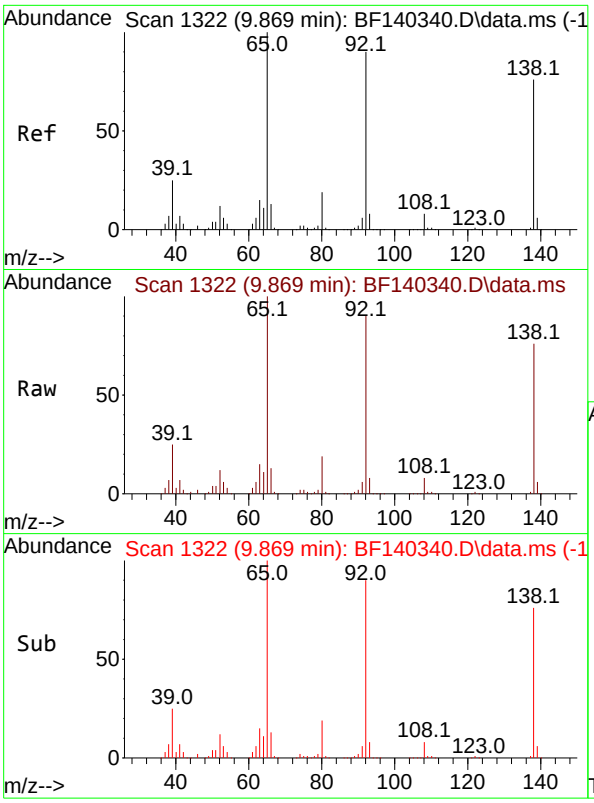


#52
Acenaphthene
Concen: 38.711 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:154 Resp: 733408

Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.8	134.8
152	54.0	42.6	64.0



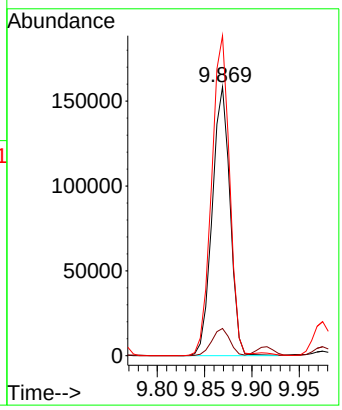


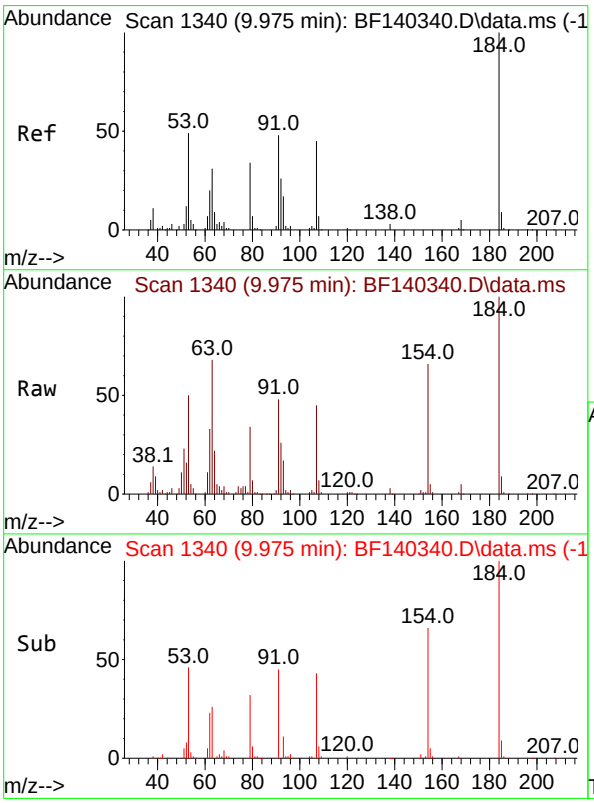
#53
3-Nitroaniline
Concen: 39.755 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 207550

Ion	Ratio	Lower	Upper
138	100		
108	10.1	8.4	12.6
92	119.1	95.5	143.3

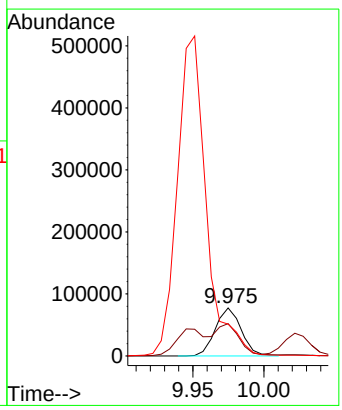


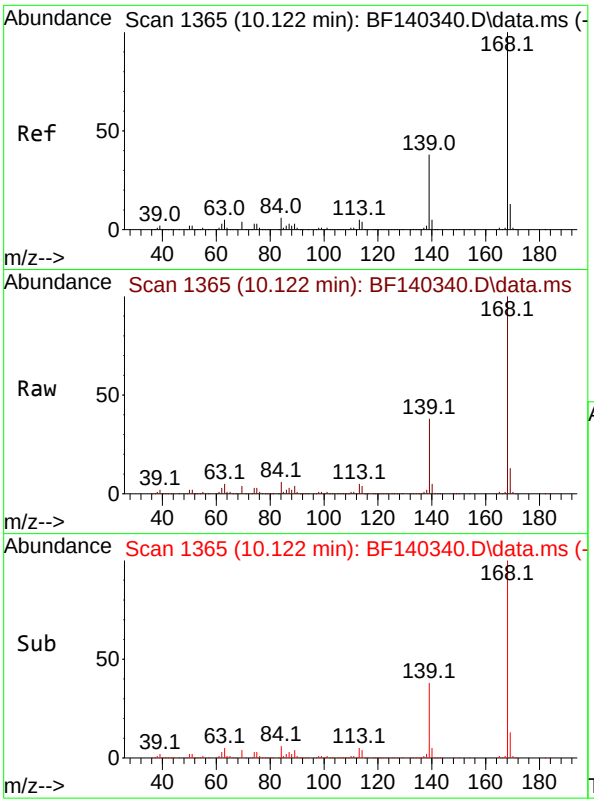


#54
2,4-Dinitrophenol
Concen: 38.441 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:184 Resp: 98545

Ion	Ratio	Lower	Upper
184	100		
63	67.5	53.5	80.3
154	66.3	51.3	76.9



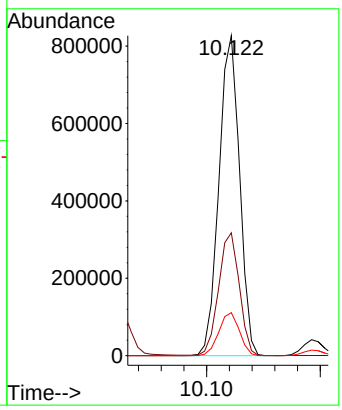


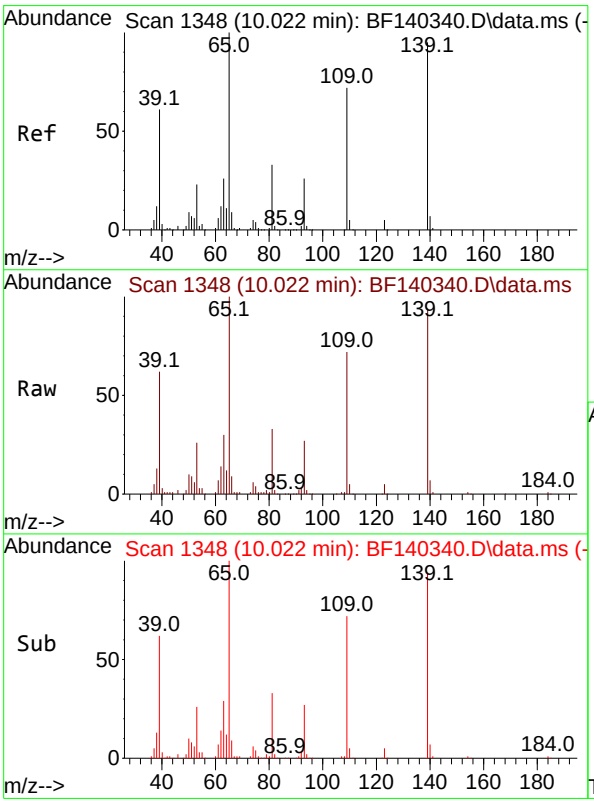
#55
Dibenzofuran
Concen: 38.868 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 1042453

Ion	Ratio	Lower	Upper
168	100		
139	38.4	30.8	46.2
169	13.4	10.8	16.2

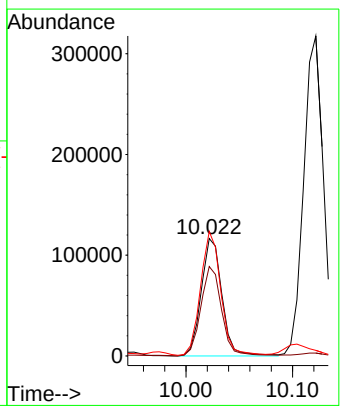


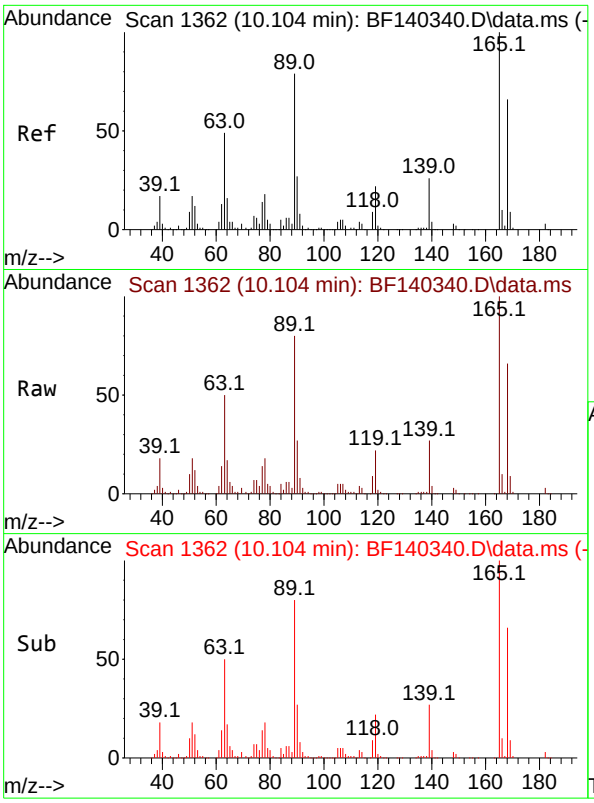


#56
4-Nitrophenol
Concen: 41.475 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:139 Resp: 157938

Ion	Ratio	Lower	Upper
139	100		
109	76.2	54.5	94.5
65	106.0	84.4	124.4



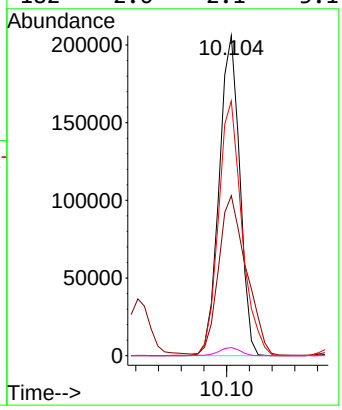


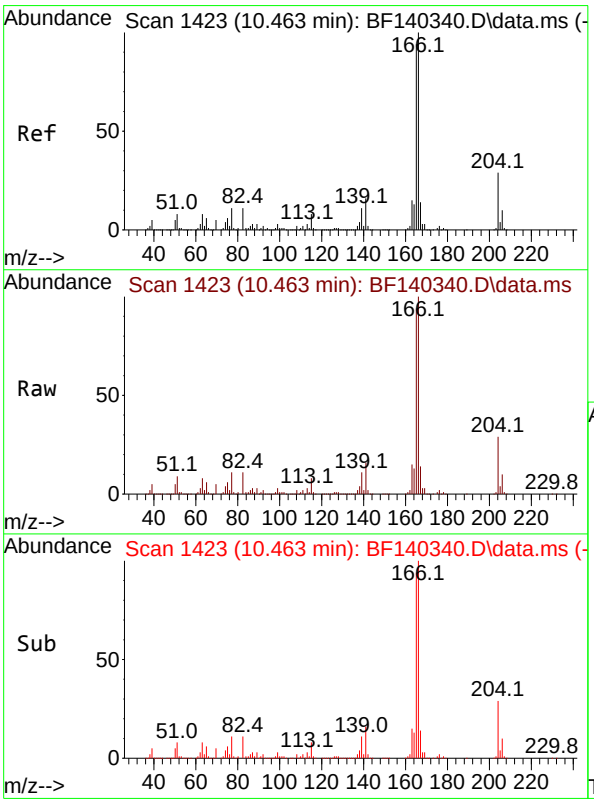
#57
2,4-Dinitrotoluene
Concen: 39.569 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 258886

Ion	Ratio	Lower	Upper
165	100		
63	50.0	39.4	59.0
89	79.6	62.4	93.6
182	2.6	2.1	3.1

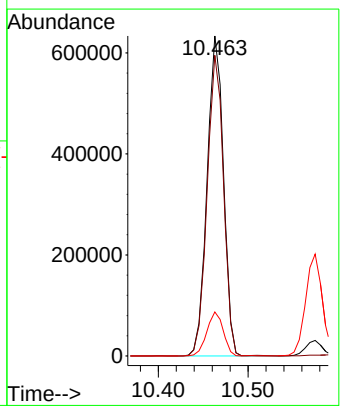


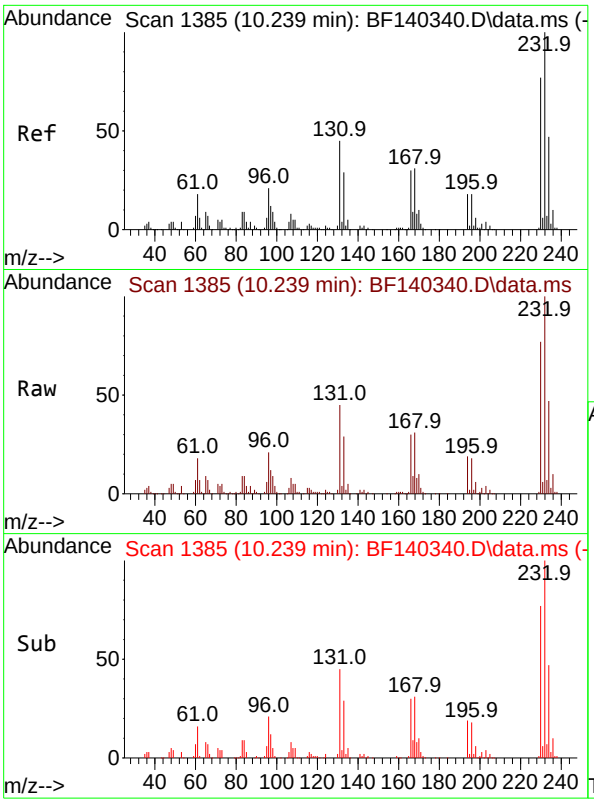


#58
Fluorene
Concen: 37.951 ng
RT: 10.463 min Scan# 1423
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:166 Resp: 804084

Ion	Ratio	Lower	Upper
166	100		
165	94.0	73.9	110.9
167	13.8	10.9	16.3



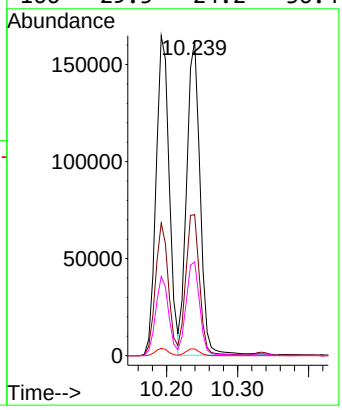


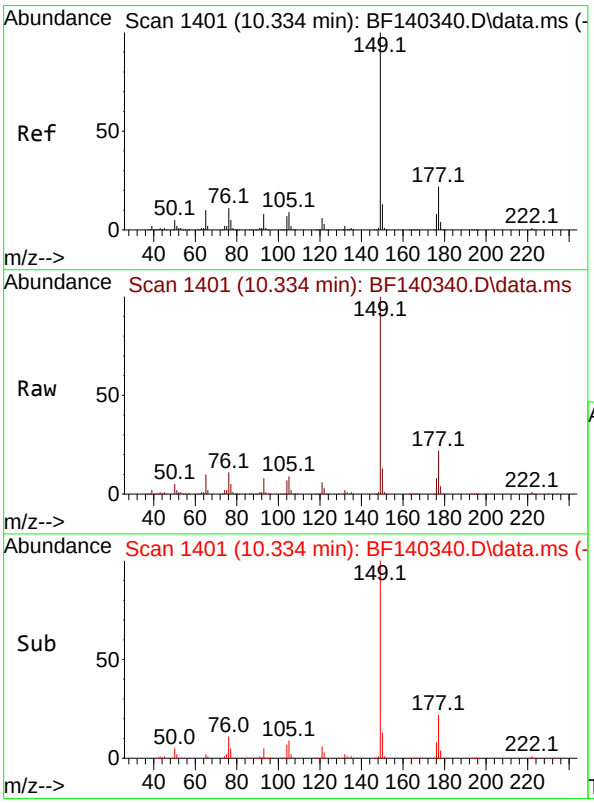
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.586 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 212533

Ion	Ratio	Lower	Upper
232	100		
131	46.1	36.8	55.2
130	2.2	1.9	2.9
166	29.5	24.2	36.4

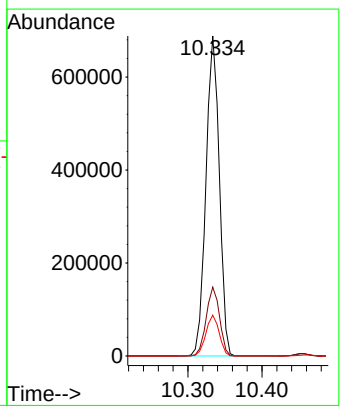


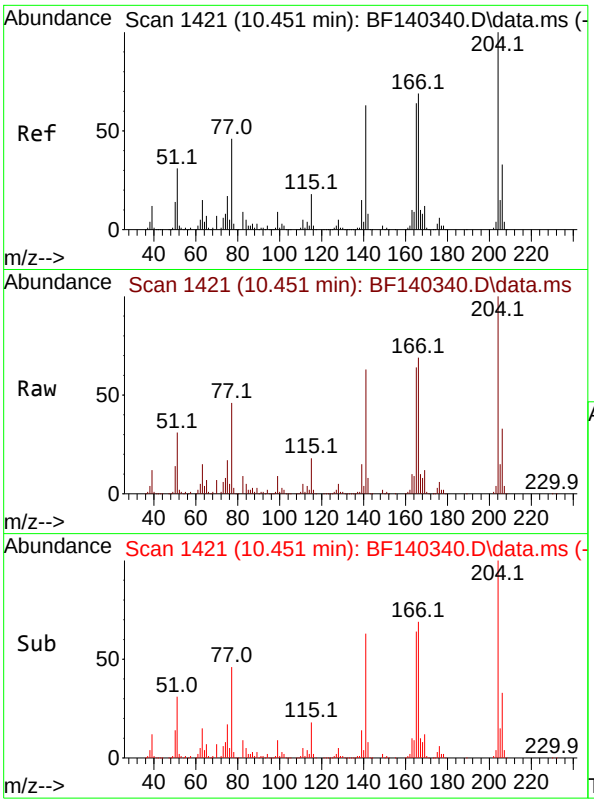


#60
Diethylphthalate
Concen: 38.627 ng
RT: 10.334 min Scan# 1401
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:149 Resp: 861287

Ion	Ratio	Lower	Upper
149	100		
177	21.5	17.5	26.3
150	12.8	10.1	15.1



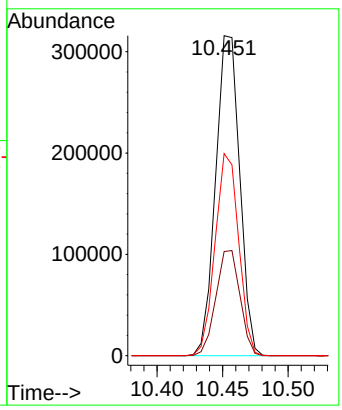


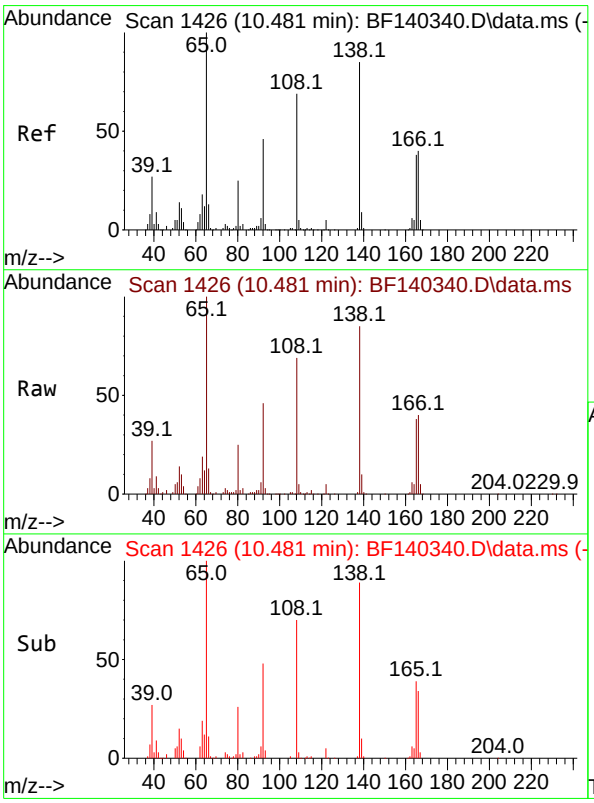
#61
4-Chlorophenyl-phenylether
Concen: 38.614 ng
RT: 10.451 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 403914

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.0	39.0
141	63.1	49.8	74.8

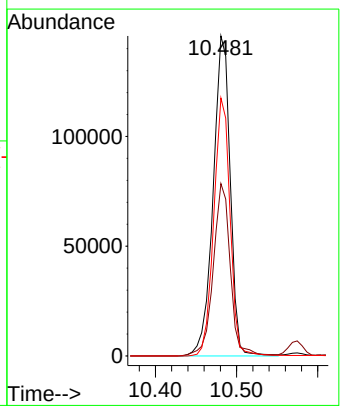


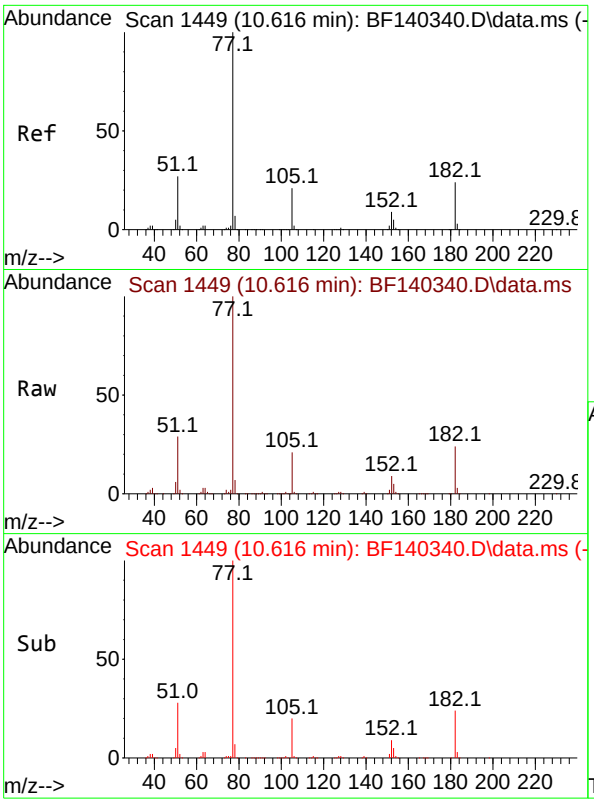


#62
4-Nitroaniline
Concen: 40.022 ng
RT: 10.481 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:138 Resp: 213640

Ion	Ratio	Lower	Upper
138	100		
92	53.8	33.8	73.8
108	80.6	59.9	99.9



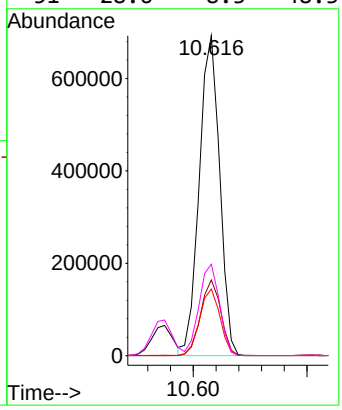


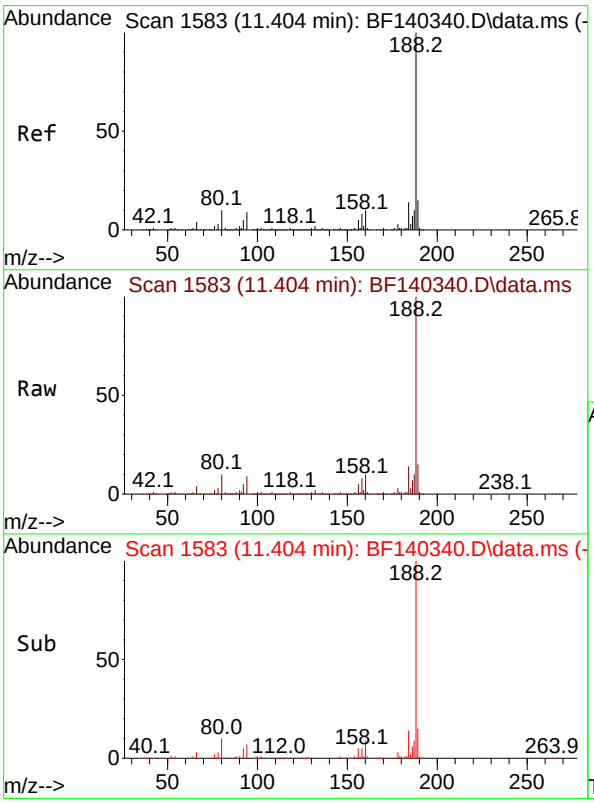
#63
Azobenzene
Concen: 39.263 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 865008

Ion	Ratio	Lower	Upper
77	100		
182	23.7	4.6	44.6
105	20.9	0.9	40.9
51	28.6	8.3	48.3

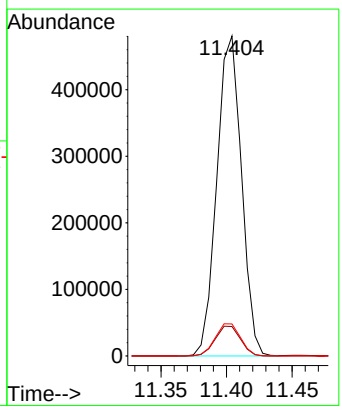


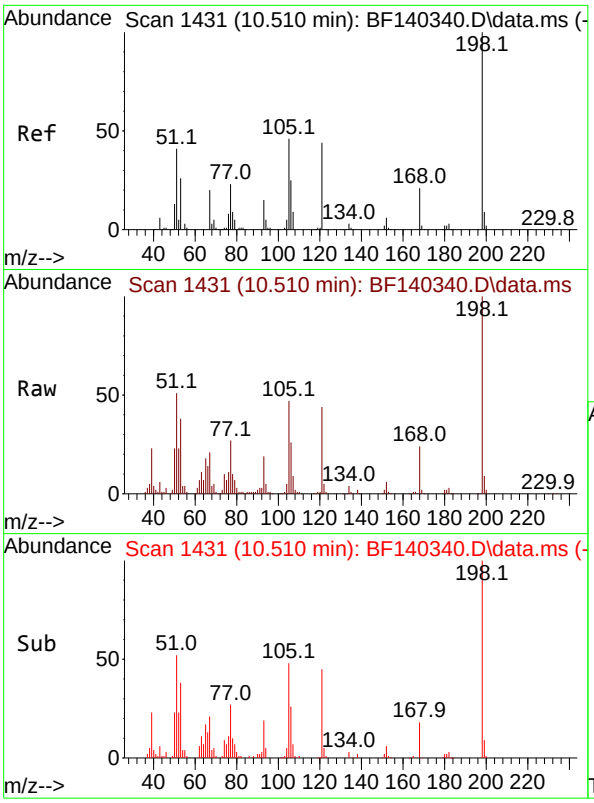


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:188 Resp: 628587

Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.6	11.4
80	10.0	8.0	12.0



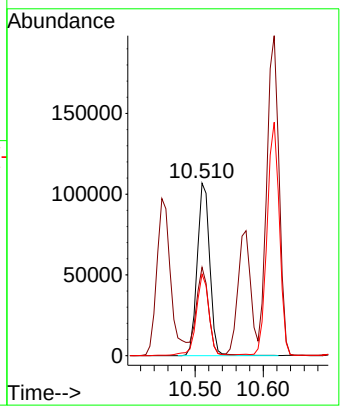


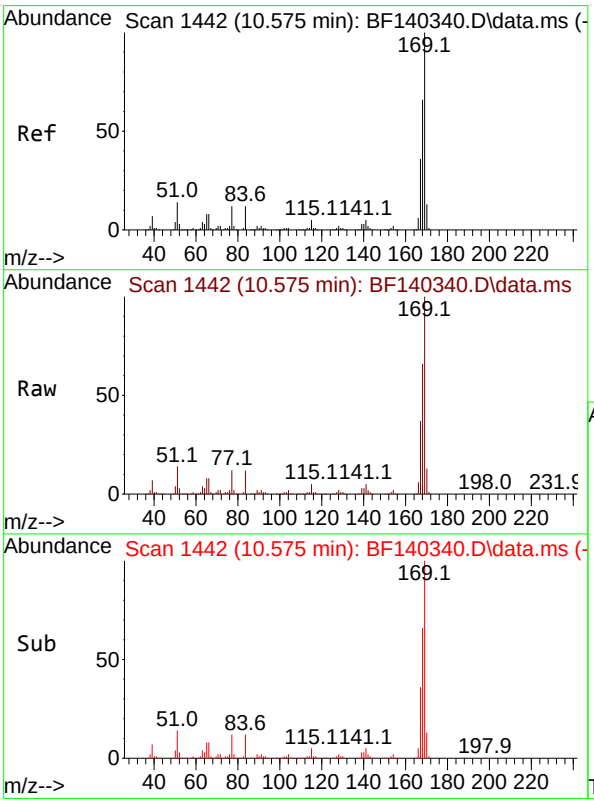
#65
4,6-Dinitro-2-methylphenol
Concen: 40.409 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 136662

Ion	Ratio	Lower	Upper
198	100		
51	51.2	29.7	69.7
105	47.2	26.3	66.3

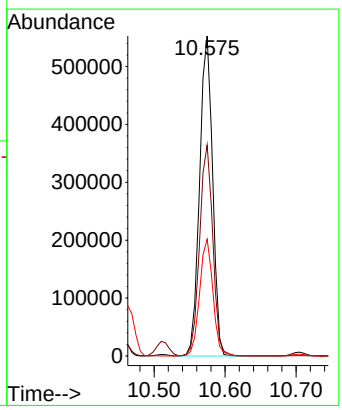


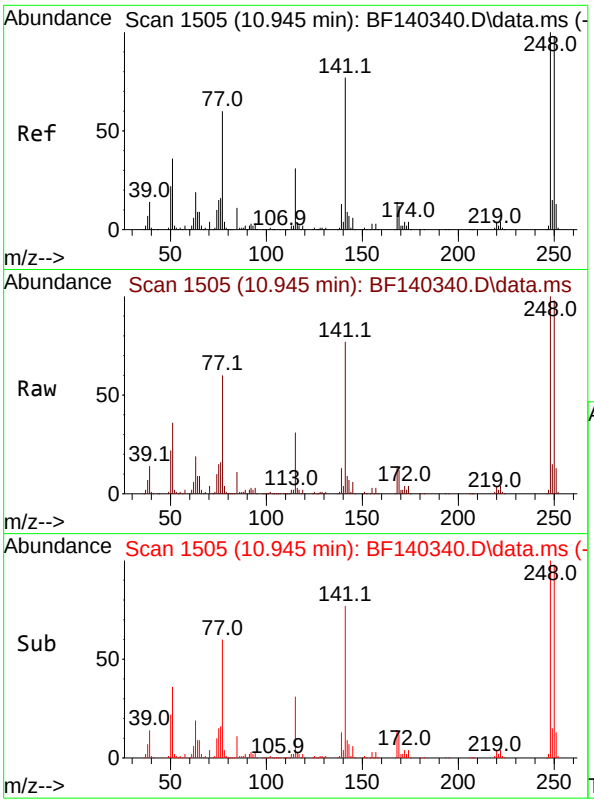


#66
n-Nitrosodiphenylamine
Concen: 38.723 ng
RT: 10.575 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:169 Resp: 703286

Ion	Ratio	Lower	Upper
169	100		
168	65.9	52.7	79.1
167	36.5	29.3	43.9



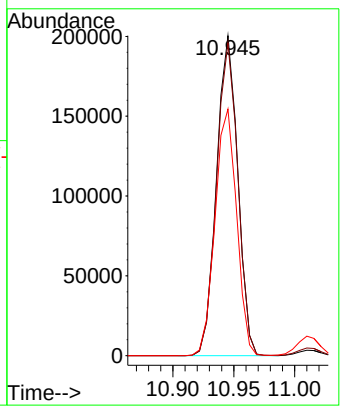


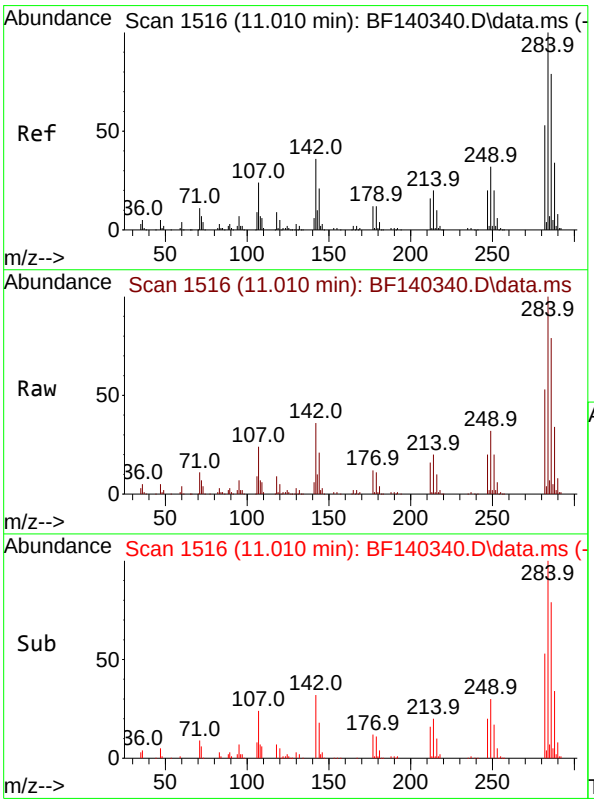
#67
4-Bromophenyl-phenylether
Concen: 38.789 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 243728

Ion	Ratio	Lower	Upper
248	100		
250	97.7	77.9	116.9
141	77.1	61.8	92.6

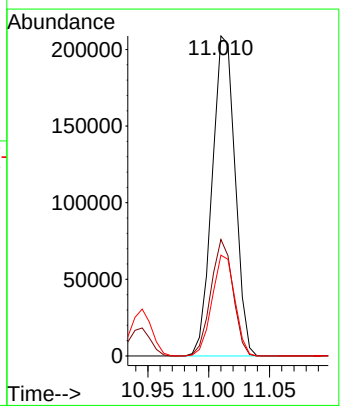


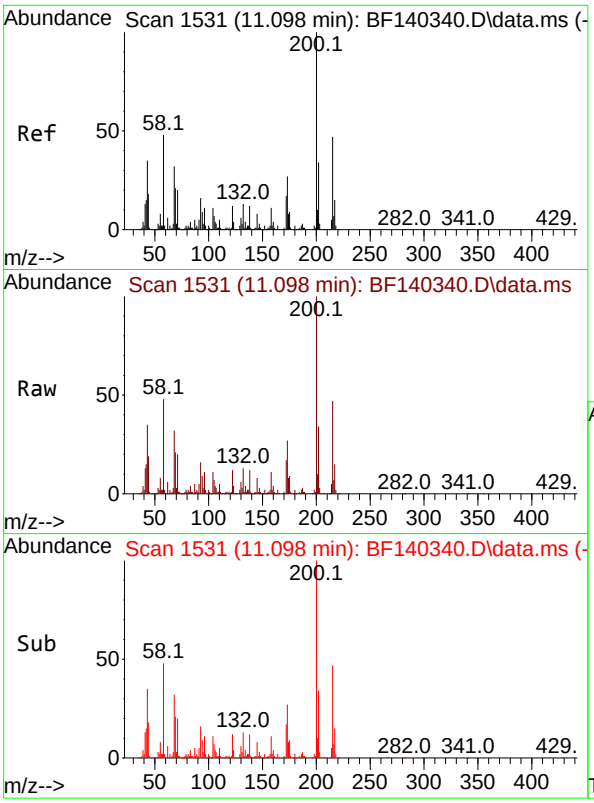


#68
Hexachlorobenzene
Concen: 38.734 ng
RT: 11.010 min Scan# 1516
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:284 Resp: 273839

Ion	Ratio	Lower	Upper
284	100		
142	36.4	28.1	42.1
249	31.5	24.9	37.3



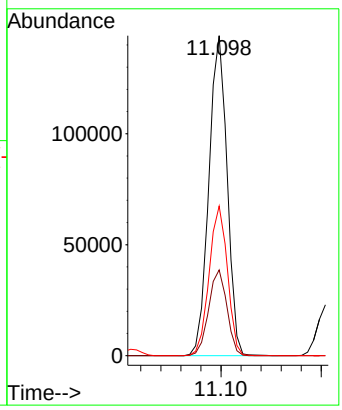


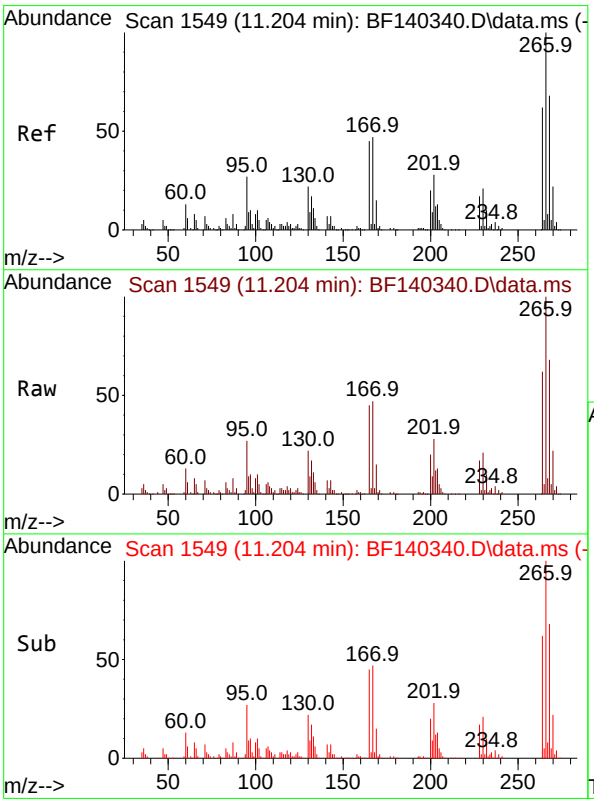
#69
Atrazine
Concen: 33.121 ng
RT: 11.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 181993

Ion	Ratio	Lower	Upper
200	100		
173	26.8	6.6	46.6
215	46.8	27.2	67.2

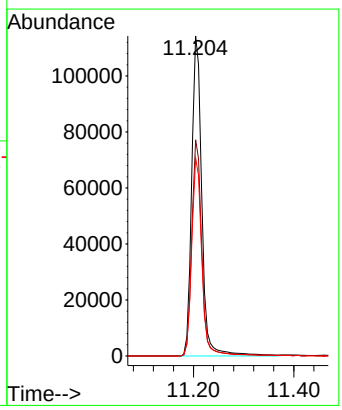


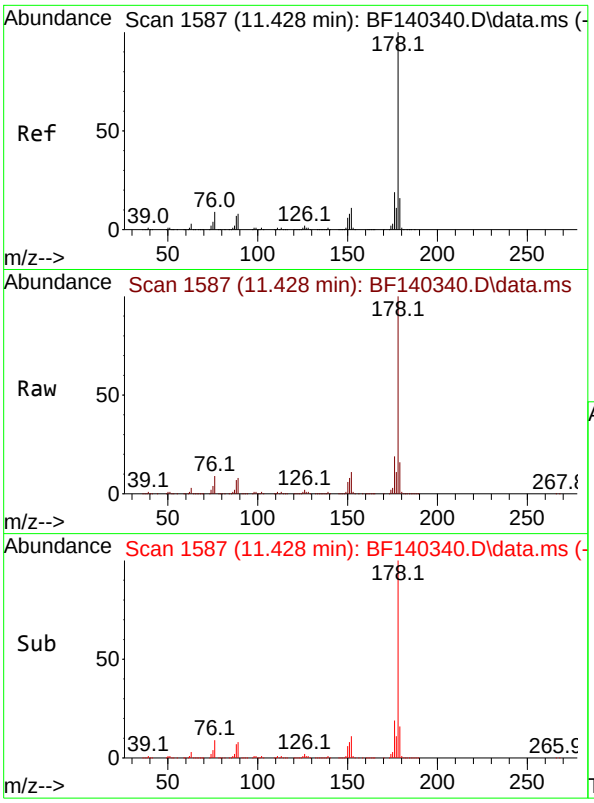


#70
Pentachlorophenol
Concen: 42.046 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:266 Resp: 160120

Ion	Ratio	Lower	Upper
266	100		
268	67.6	52.9	79.3
264	61.8	50.3	75.5



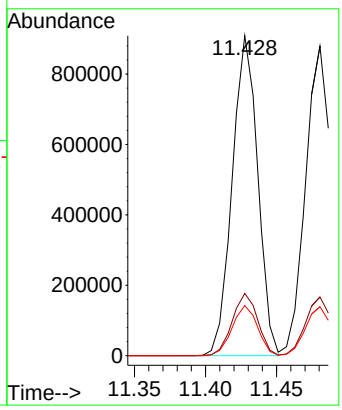


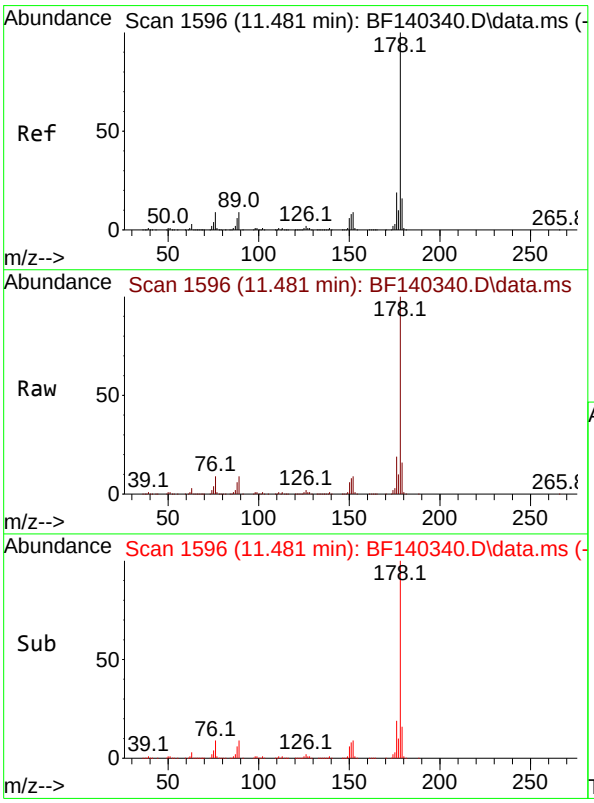
#71
Phenanthrene
Concen: 38.440 ng
RT: 11.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 1135052

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.5	23.3
179	15.6	12.4	18.6

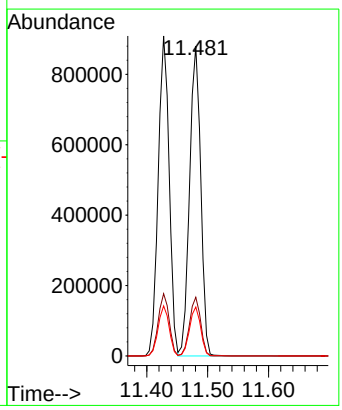


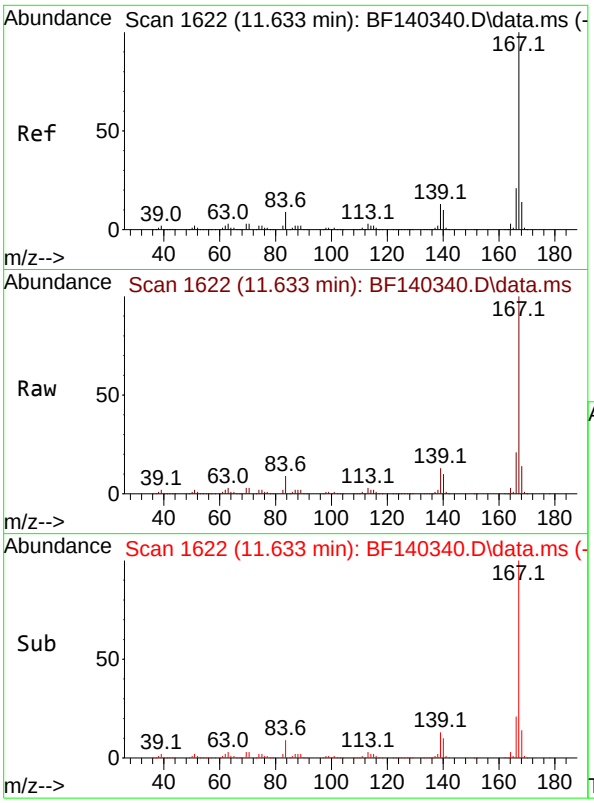


#72
Anthracene
Concen: 38.613 ng
RT: 11.481 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:178 Resp: 1117453

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.8	12.6	18.8



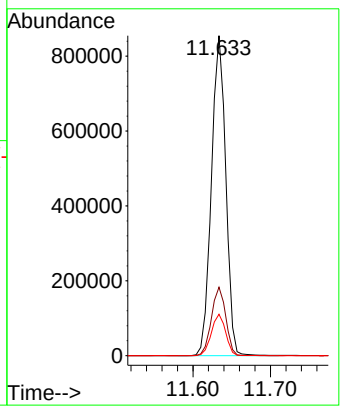


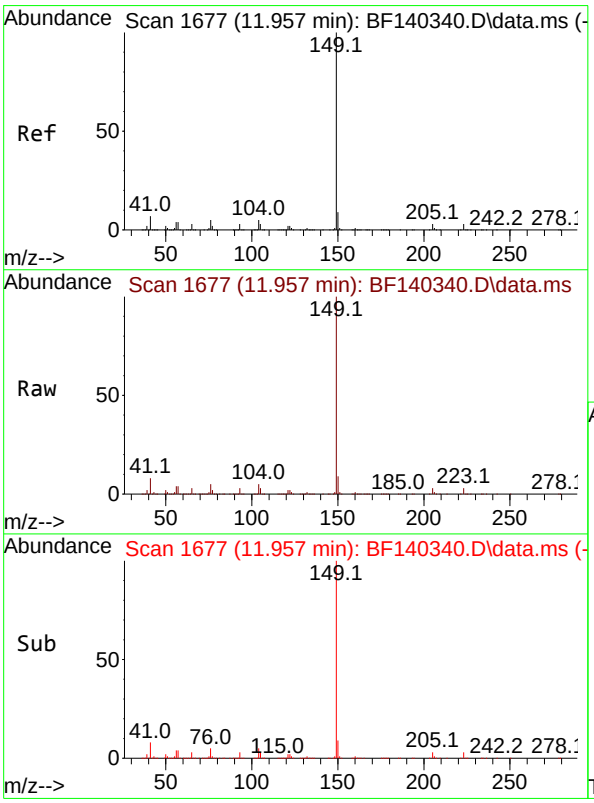
#73
Carbazole
Concen: 38.551 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 1101588

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.2	25.8
139	13.0	10.4	15.6

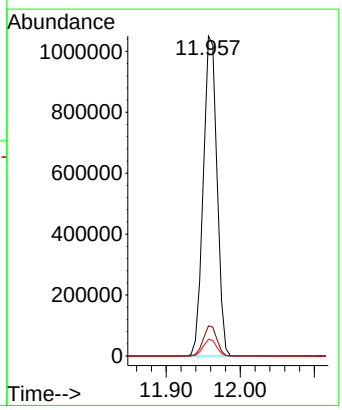


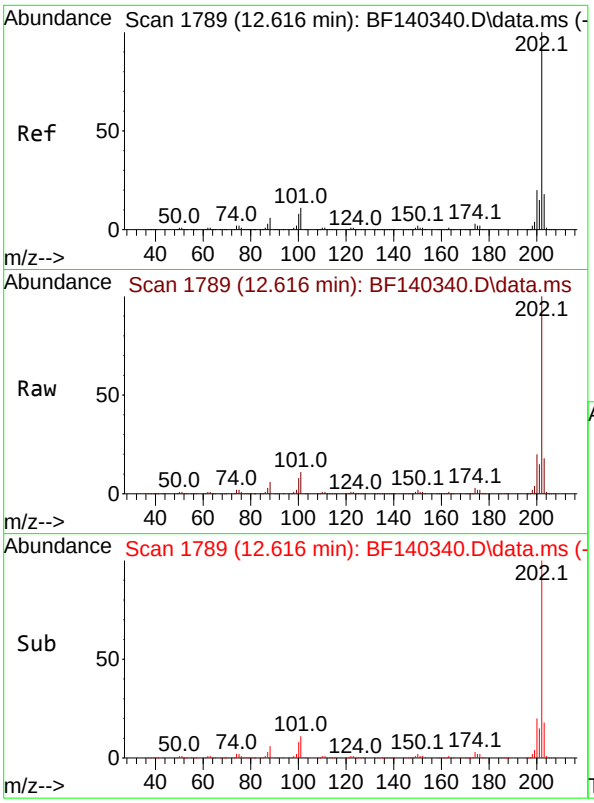


#74
Di-n-butylphthalate
Concen: 39.365 ng
RT: 11.957 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:149 Resp: 1350065

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.2	4.0	6.0



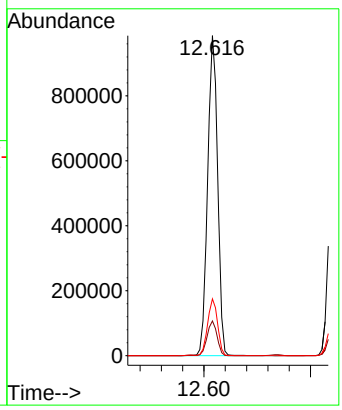


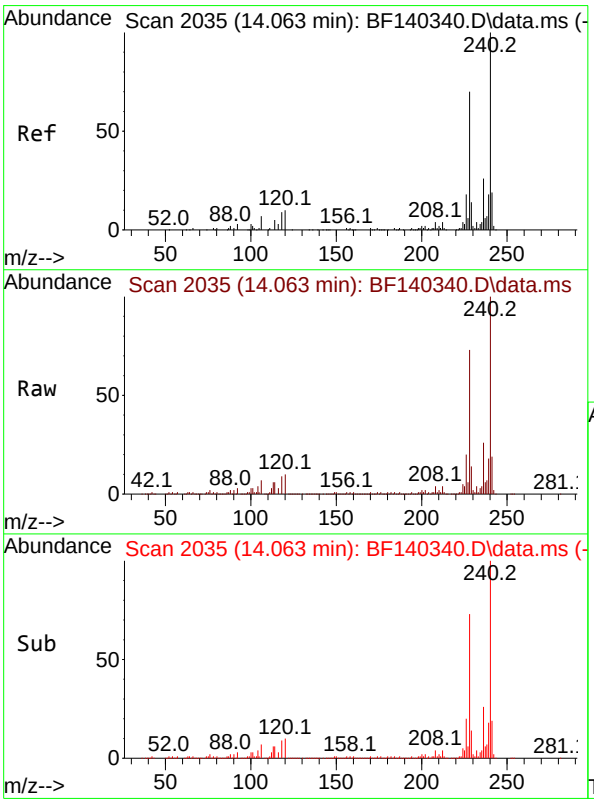
#75
Fluoranthene
Concen: 38.621 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 1279456

Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	30.7
203	17.7	0.0	37.7

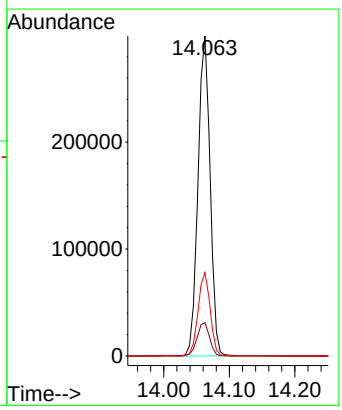


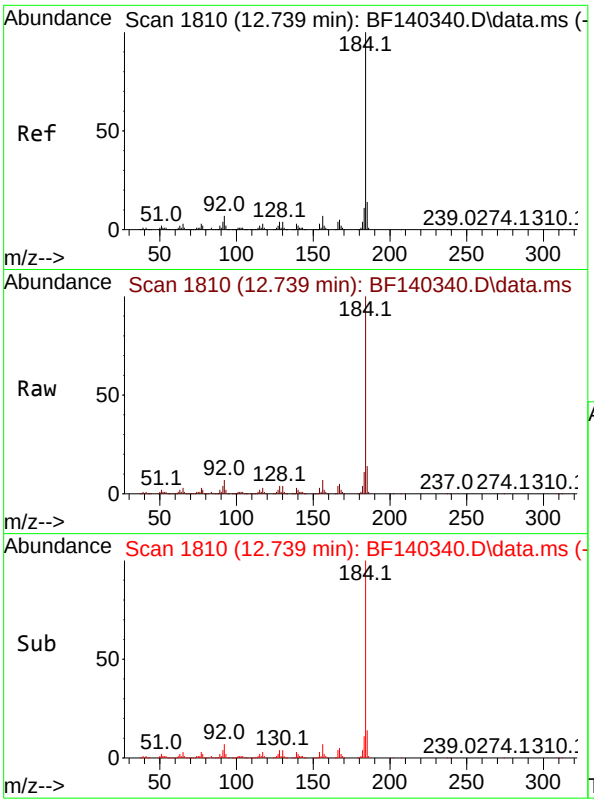


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2035
Delta R.T. 0.012 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:240 Resp: 385940

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.8	13.2
236	26.1	20.9	31.3



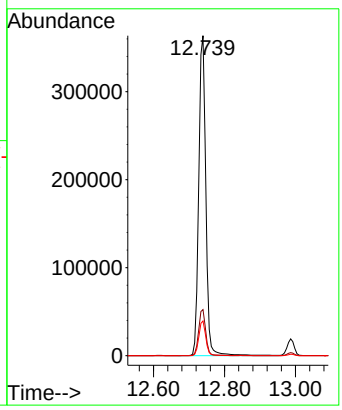


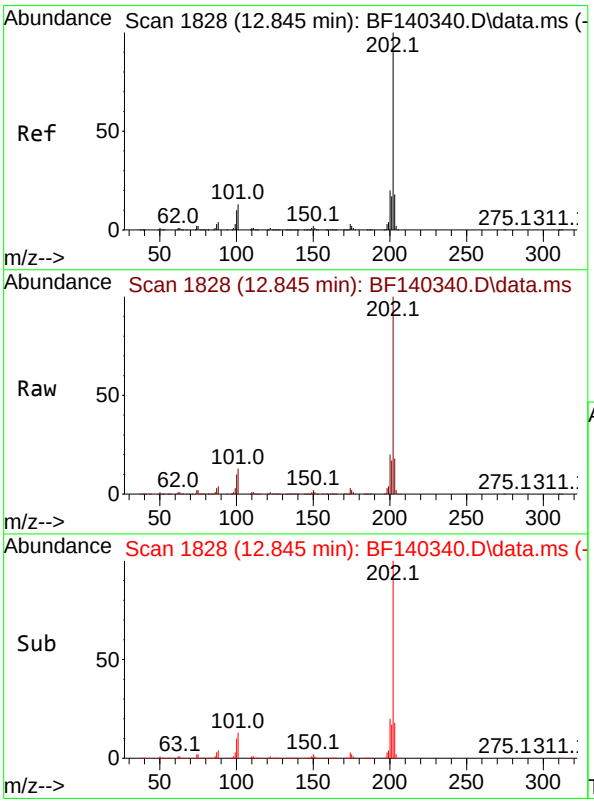
#77
Benzidine
Concen: 34.036 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 504166

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.9	17.9
183	10.8	8.6	13.0

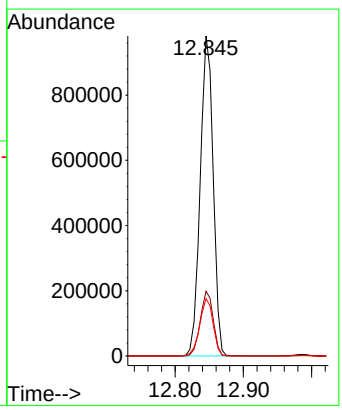


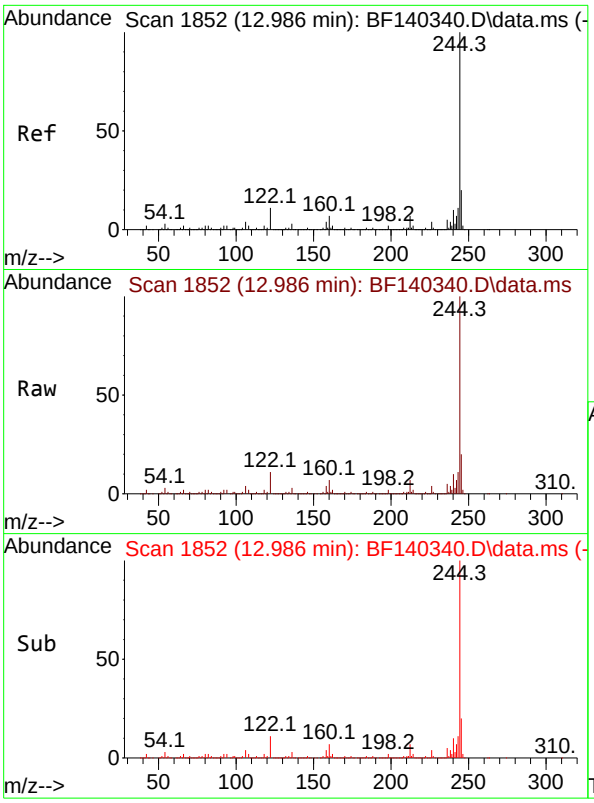


#78
Pyrene
Concen: 39.252 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:202 Resp: 1295809

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.2	24.2
203	17.9	14.2	21.4



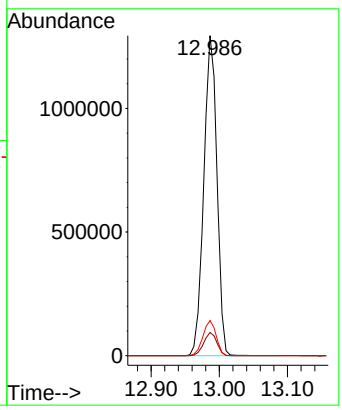


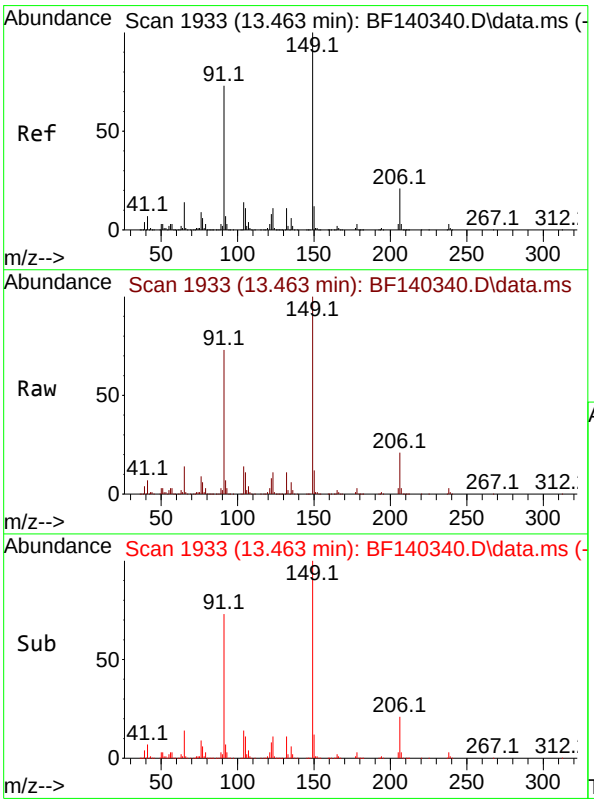
#79
Terphenyl-d14
Concen: 77.987 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 1733989

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	11.0	8.8	13.2

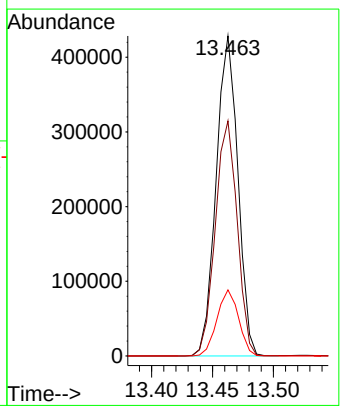


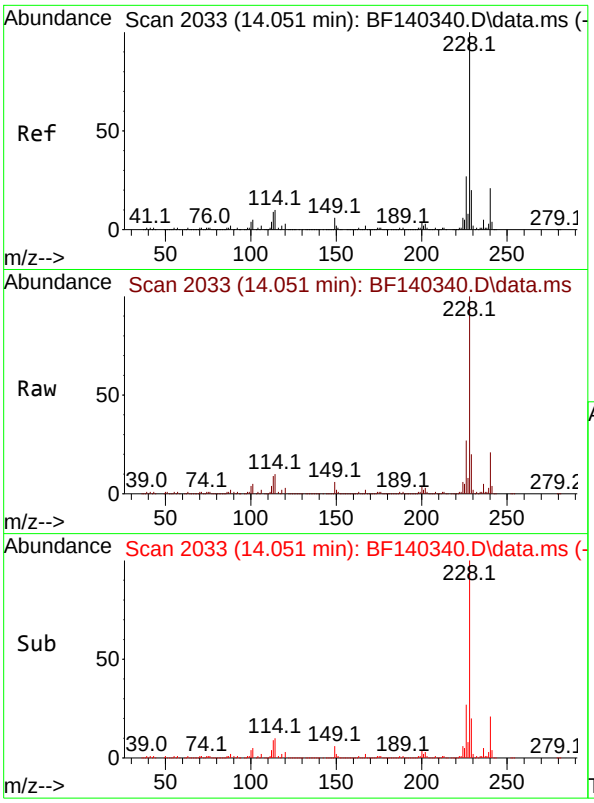


#80
Butylbenzylphthalate
Concen: 41.968 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:149 Resp: 532219

Ion	Ratio	Lower	Upper
149	100		
91	73.4	61.0	91.4
206	20.7	16.1	24.1



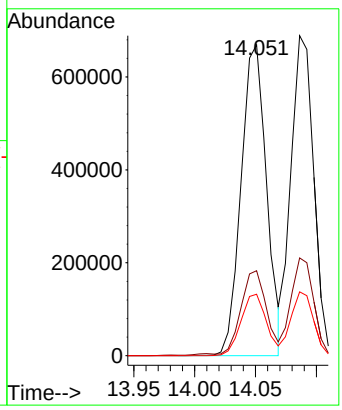


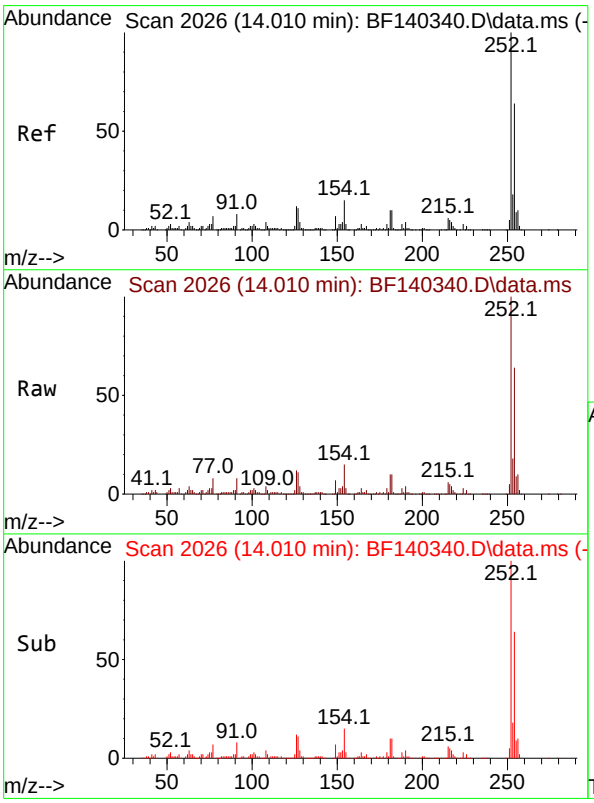
#81
Benzo(a)anthracene
Concen: 38.447 ng
RT: 14.051 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 975194

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.2	33.4
229	19.8	15.8	23.6

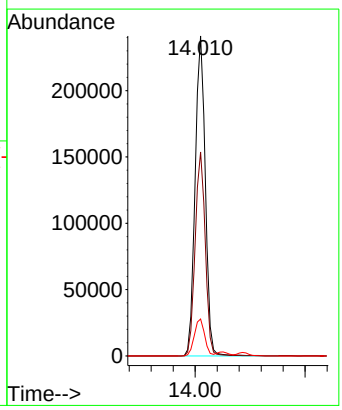


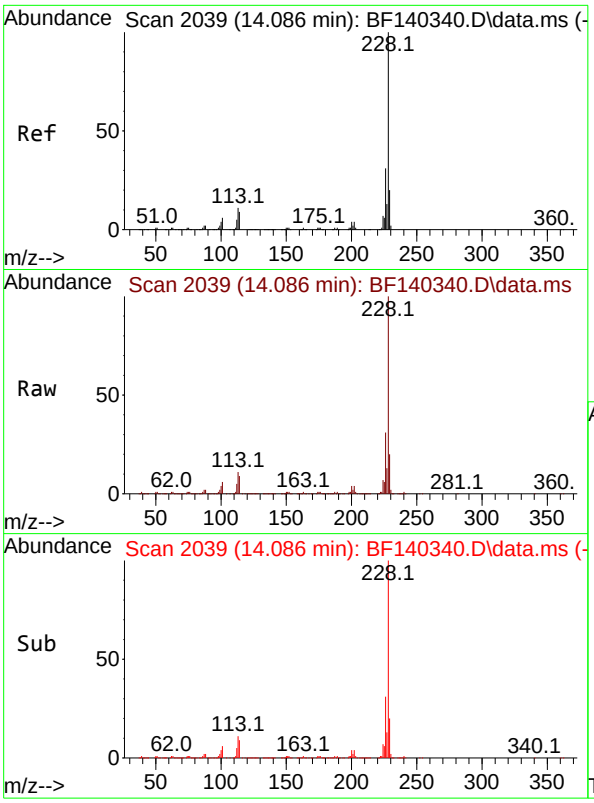


#82
3,3'-Dichlorobenzidine
Concen: 38.491 ng
RT: 14.010 min Scan# 2026
Delta R.T. 0.012 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:252 Resp: 310326

Ion	Ratio	Lower	Upper
252	100		
254	63.8	51.4	77.2
126	11.6	9.4	14.0



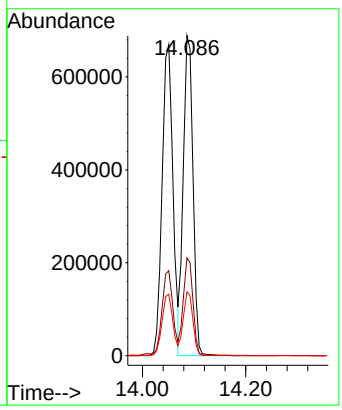


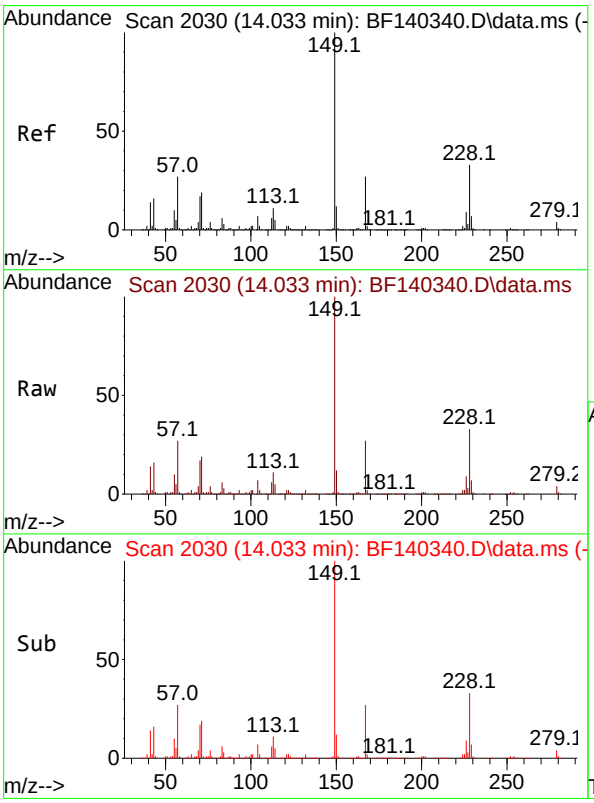
#83
Chrysene
Concen: 38.950 ng
RT: 14.086 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 901424

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	20.0	16.0	24.0

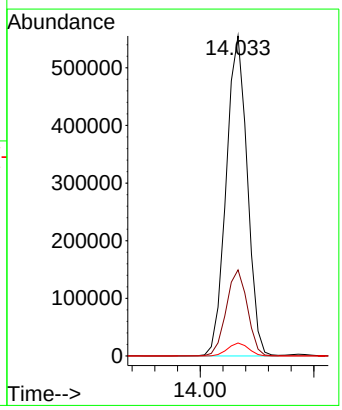


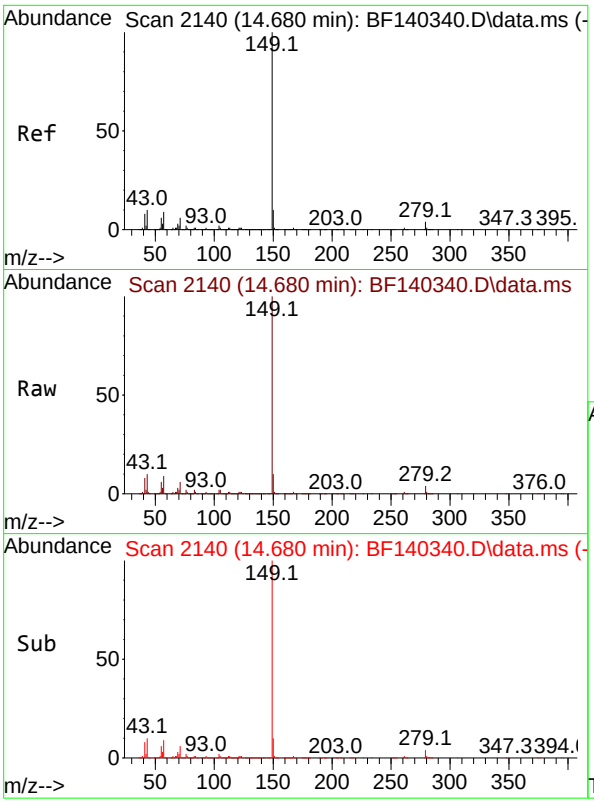


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.269 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.012 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:149 Resp: 715490

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.4	32.0
279	4.0	3.0	4.6



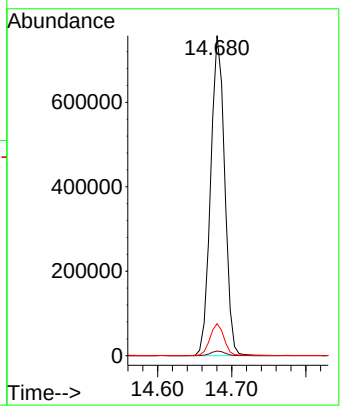


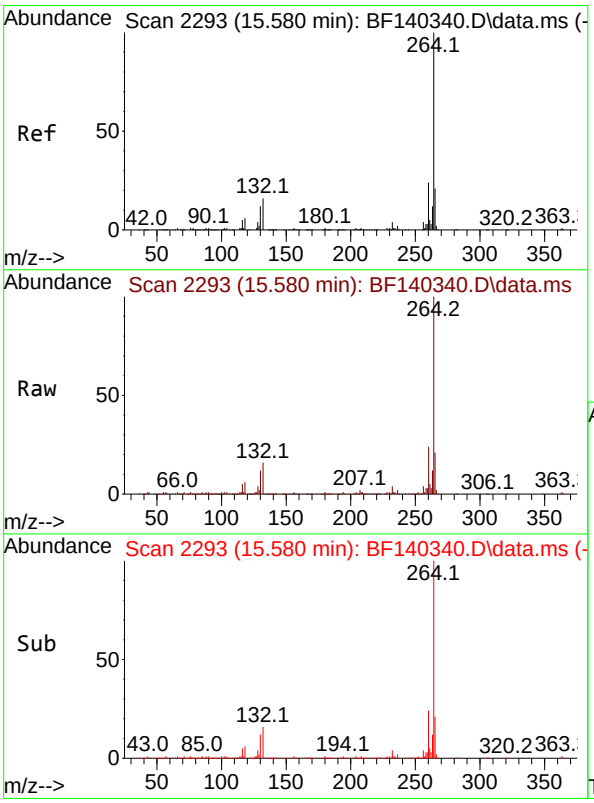
#85
Di-n-octyl phthalate
Concen: 41.757 ng
RT: 14.680 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 995484

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.0	8.0	12.0

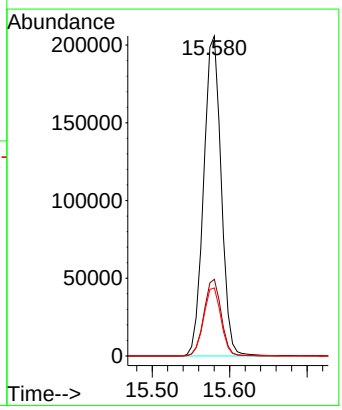


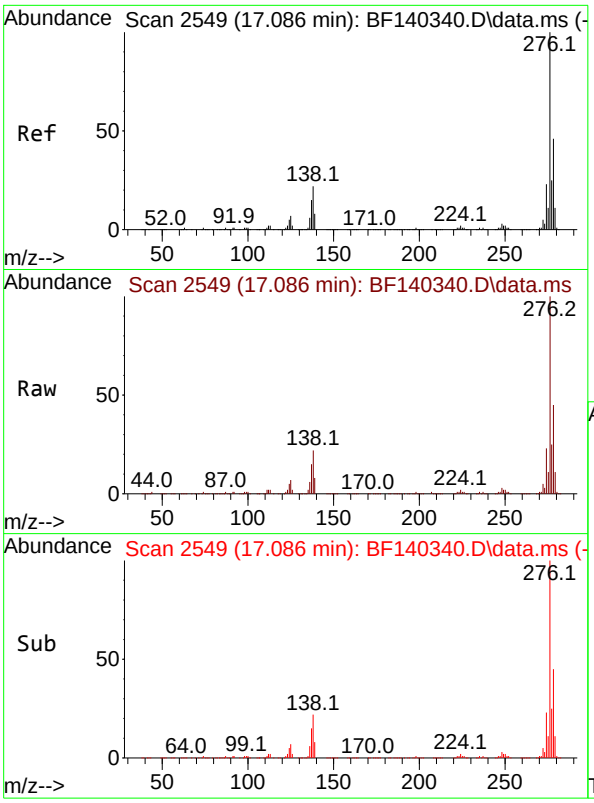


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.580 min Scan# 2293
Delta R.T. 0.024 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:264 Resp: 322417

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.3	17.1	25.7



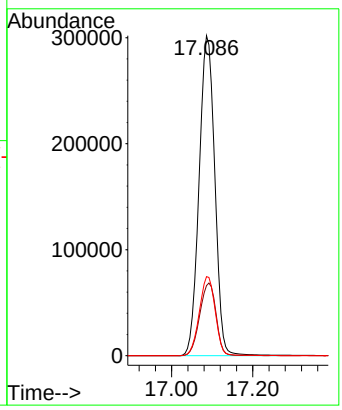


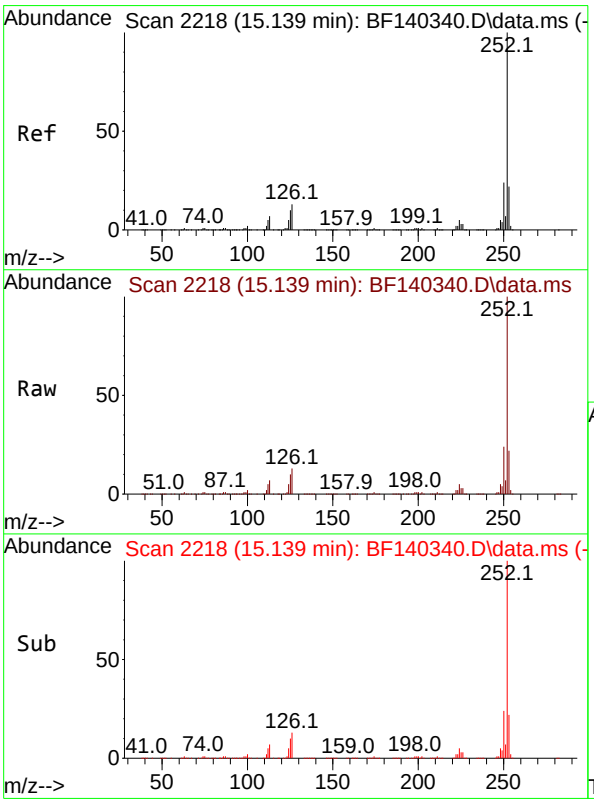
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.723 ng
RT: 17.086 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 811059

Ion	Ratio	Lower	Upper
276	100		
138	23.5	18.8	28.2
277	25.0	20.2	30.2

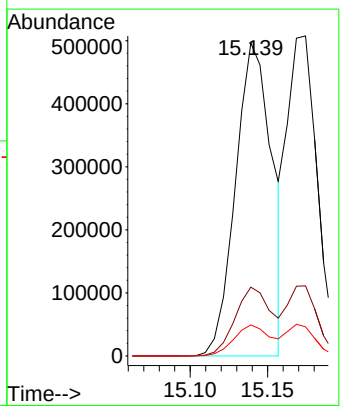


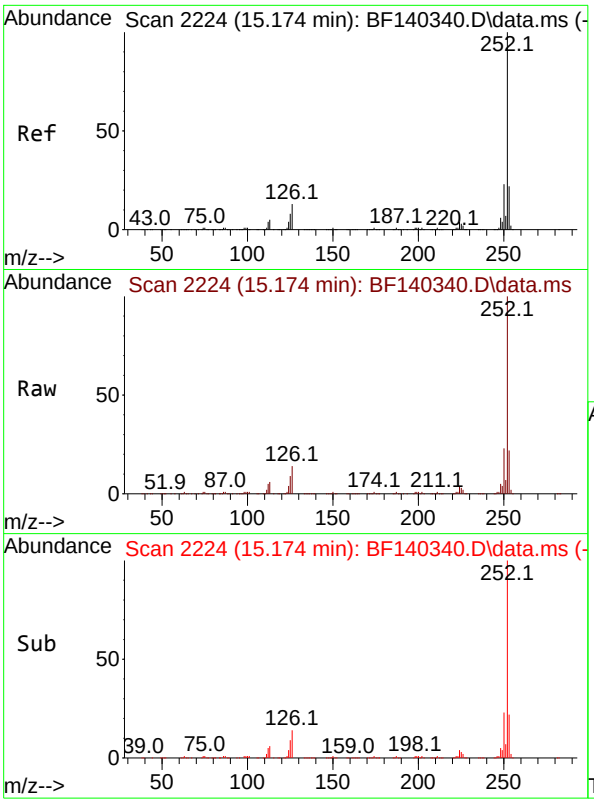


#88
Benzo(b)fluoranthene
Concen: 38.614 ng
RT: 15.139 min Scan# 2218
Delta R.T. 0.024 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:252 Resp: 814405

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.9	8.0	12.0



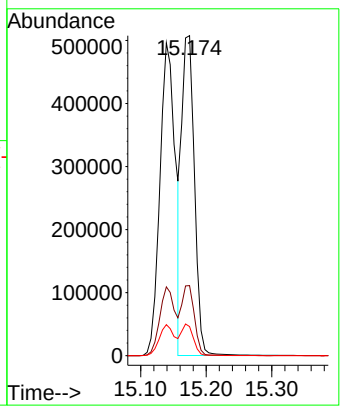


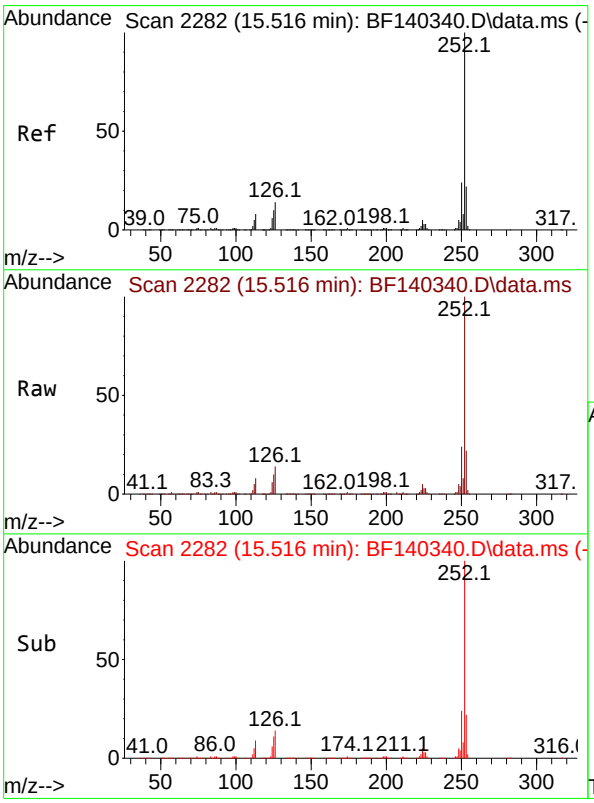
#89
Benzo(k)fluoranthene
Concen: 39.676 ng
RT: 15.174 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 683609

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9
125	9.1	7.4	11.2

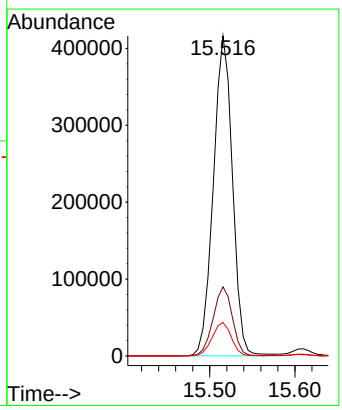


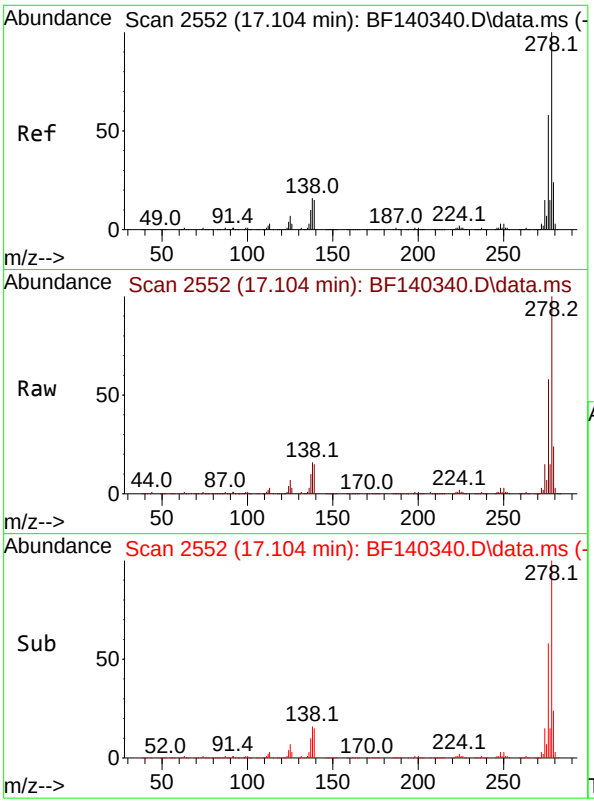


#90
Benzo(a)pyrene
Concen: 39.585 ng
RT: 15.516 min Scan# 2282
Delta R.T. 0.024 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:252 Resp: 648346

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.6
125	10.5	8.4	12.6



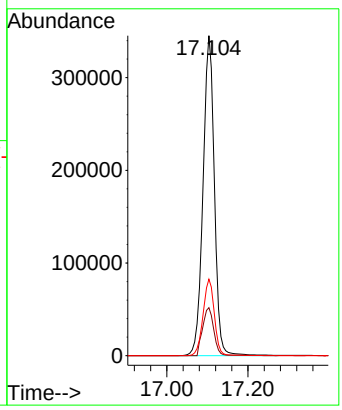


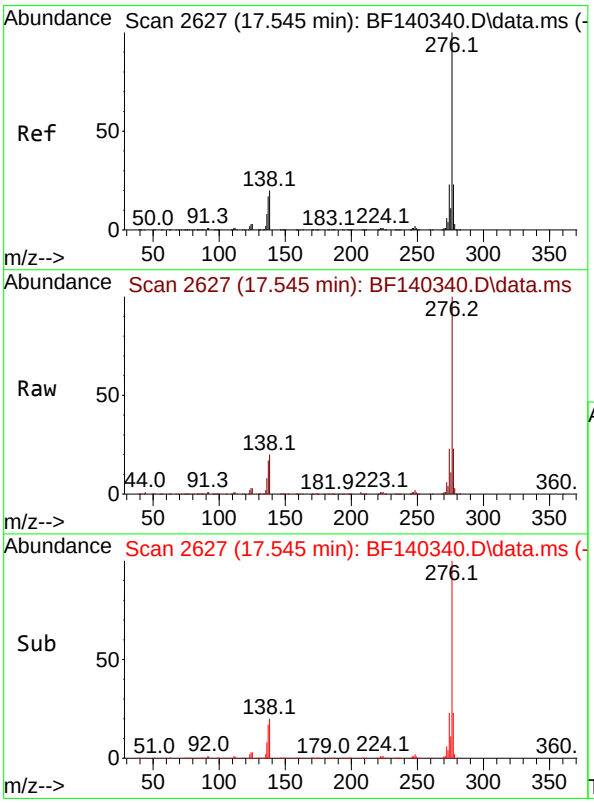
#91
Dibenzo(a,h)anthracene
Concen: 40.712 ng
RT: 17.104 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 670243

Ion	Ratio	Lower	Upper
278	100		
139	15.0	11.8	17.8
279	23.9	18.9	28.3

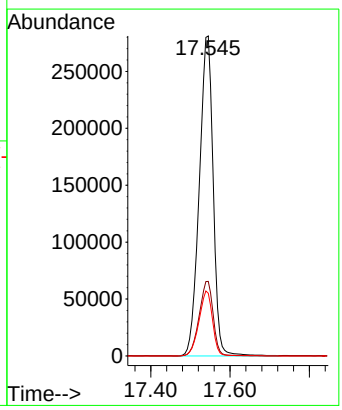




#92
Benzo(g,h,i)perylene
Concen: 40.711 ng
RT: 17.545 min Scan# 2627
Delta R.T. 0.029 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:276 Resp: 685184

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	19.6	16.0	24.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	149980	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	587913	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	333123	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	631059	20.000	ng	0.00
76) Chrysene-d12	14.063	240	366437	20.000	ng	0.01
86) Perylene-d12	15.574	264	319261	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	684092	77.878	ng	0.00
7) Phenol-d6	6.504	99	943149	79.248	ng	0.00
23) Nitrobenzene-d5	7.440	82	885901	78.511	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	260432	78.617	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1568824	75.707	ng	0.00
79) Terphenyl-d14	12.986	244	1705668	80.797	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	155026	39.597	ng	99
3) Pyridine	3.405	79	391304	40.655	ng	99
4) n-Nitrosodimethylamine	3.357	42	194133	39.908	ng	98
6) Aniline	6.540	93	429973	41.531	ng	99
8) 2-Chlorophenol	6.663	128	373546	39.588	ng	100
9) Benzaldehyde	6.428	77	266318	37.337	ng	99
10) Phenol	6.516	94	505284	40.259	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	374368	39.367	ng	99
12) 1,3-Dichlorobenzene	6.816	146	407569	39.148	ng	99
13) 1,4-Dichlorobenzene	6.898	146	410968	38.930	ng	100
14) 1,2-Dichlorobenzene	7.051	146	381749	38.953	ng	100
15) Benzyl Alcohol	7.016	79	356665	41.596	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	529417	40.304	ng	100
17) 2-Methylphenol	7.128	107	312261	40.228	ng	99
18) Hexachloroethane	7.387	117	152783	39.149	ng	98
19) n-Nitroso-di-n-propyla...	7.292	70	288082	40.079	ng	99
20) 3+4-Methylphenols	7.281	107	398279	41.028	ng	99
22) Acetophenone	7.287	105	530294	38.782	ng	99
24) Nitrobenzene	7.463	77	461518	39.284	ng	99
25) Isophorone	7.698	82	791096	39.558	ng	100
26) 2-Nitrophenol	7.775	139	212967	40.850	ng	100
27) 2,4-Dimethylphenol	7.804	122	270554	40.536	ng	100
28) bis(2-Chloroethoxy)met...	7.904	93	481393	39.258	ng	99
29) 2,4-Dichlorophenol	8.016	162	326198	39.545	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	356725	38.843	ng	99
31) Naphthalene	8.181	128	1159811	38.889	ng	100
32) Benzoic acid	7.928	122	250402	42.635	ng	97
33) 4-Chloroaniline	8.228	127	404464	38.996	ng	99
34) Hexachlorobutadiene	8.298	225	227054	38.804	ng	99
35) Caprolactam	8.598	113	110611	40.345	ng	99
36) 4-Chloro-3-methylphenol	8.704	107	368906	40.356	ng	100
37) 2-Methylnaphthalene	8.869	142	747189	39.072	ng	100
38) 1-Methylnaphthalene	8.969	142	729079	38.933	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	356102	38.657	ng	100
41) Hexachlorocyclopentadiene	9.022	237	90509	38.267	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	240423	39.769	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	254749	38.542	ng	100
46) 1,1'-Biphenyl	9.334	154	946801	39.068	ng	99
47) 2-Chloronaphthalene	9.363	162	711544	38.543	ng	100
48) 2-Nitroaniline	9.457	65	243803	39.821	ng	99
49) Acenaphthylene	9.775	152	1088251	38.962	ng	100
50) Dimethylphthalate	9.634	163	845361	38.933	ng	99
51) 2,6-Dinitrotoluene	9.698	165	197768	39.952	ng	100
52) Acenaphthene	9.951	154	738443	39.143	ng	100
53) 3-Nitroaniline	9.869	138	206946	39.809	ng	99
54) 2,4-Dinitrophenol	9.975	184	102497	40.153	ng	99
55) Dibenzofuran	10.122	168	1049030	39.280	ng	99
56) 4-Nitrophenol	10.022	139	158431	41.782	ng	99
57) 2,4-Dinitrotoluene	10.104	165	262271	40.258	ng	100
58) Fluorene	10.463	166	811348	38.457	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	206672	39.601	ng	99
60) Diethylphthalate	10.333	149	864678	38.945	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	400645	38.465	ng	99
62) 4-Nitroaniline	10.481	138	210281	39.561	ng	99
63) Azobenzene	10.616	77	869821	39.649	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	139694	41.144	ng	100
66) n-Nitrosodiphenylamine	10.575	169	709758	38.926	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	246390	39.059	ng	99
68) Hexachlorobenzene	11.010	284	277113	39.043	ng	99
69) Atrazine	11.098	200	180055	32.640	ng	98
70) Pentachlorophenol	11.204	266	159402	41.693	ng	99
71) Phenanthrene	11.428	178	1127194	38.024	ng	99
72) Anthracene	11.480	178	1114551	38.362	ng	100
73) Carbazole	11.633	167	1109519	38.676	ng	100
74) Di-n-butylphthalate	11.957	149	1356287	39.391	ng	100
75) Fluoranthene	12.616	202	1270353	38.196	ng	99
77) Benzidine	12.739	184	546613	38.866	ng	99
78) Pyrene	12.845	202	1274659	40.667	ng	100
80) Butylbenzylphthalate	13.463	149	512452	42.560	ng	98
81) Benzo(a)anthracene	14.051	228	947117	39.327	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	304604	39.793	ng	99
83) Chrysene	14.086	228	869491	39.569	ng	99
84) Bis(2-ethylhexyl)phtha...	14.033	149	678437	42.213	ng	100
85) Di-n-octyl phthalate	14.680	149	915547	40.448	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	815903	41.371	ng	100
88) Benzo(b)fluoranthene	15.139	252	775920	37.153	ng	99
89) Benzo(k)fluoranthene	15.168	252	693105	40.625	ng	99
90) Benzo(a)pyrene	15.510	252	637970	39.337	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	682579	41.871	ng	100
92) Benzo(g,h,i)perylene	17.539	276	677222	40.635	ng	99

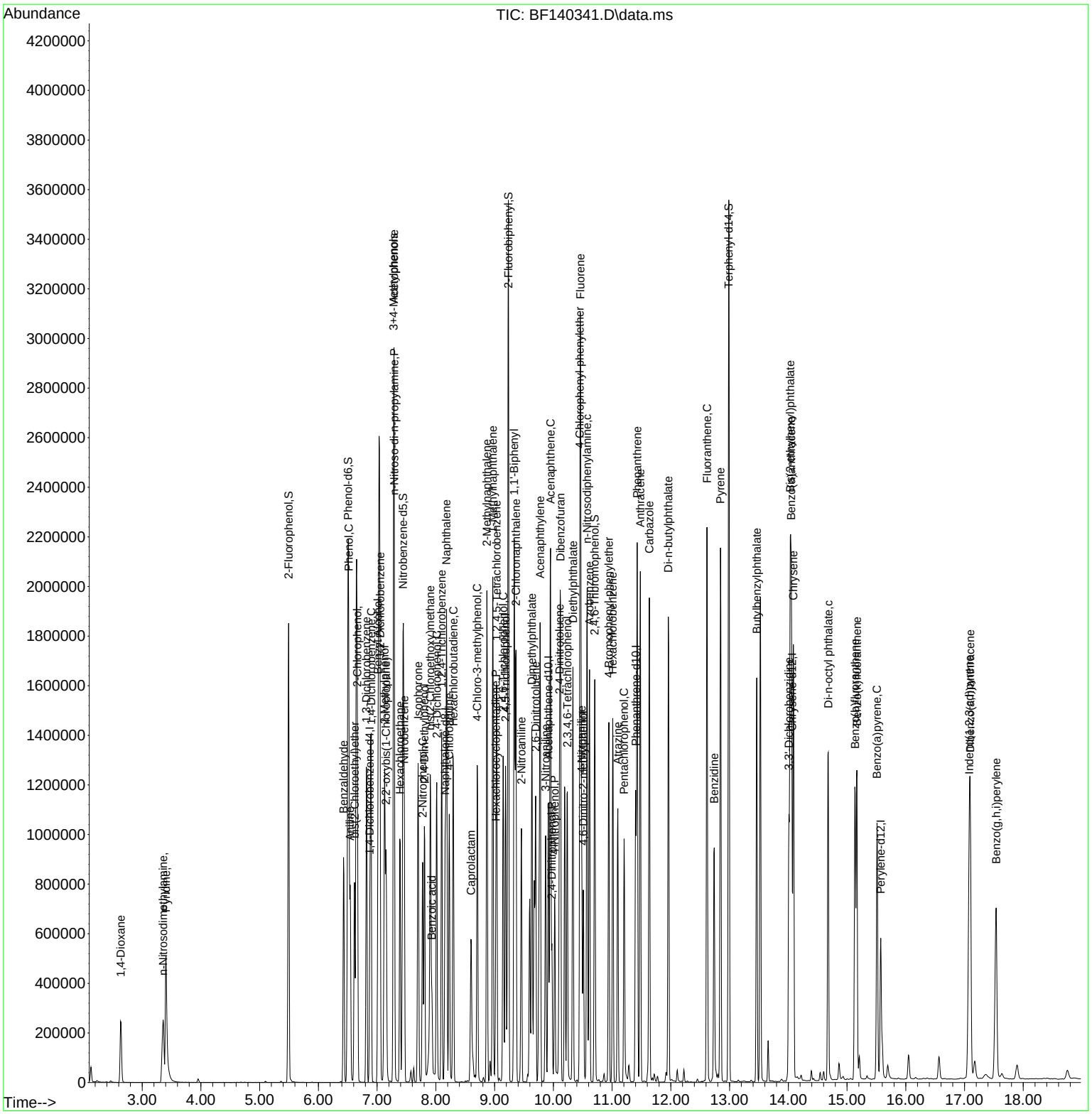
(#) = qualifier out of range (m) = manual integration (+) = signals summed

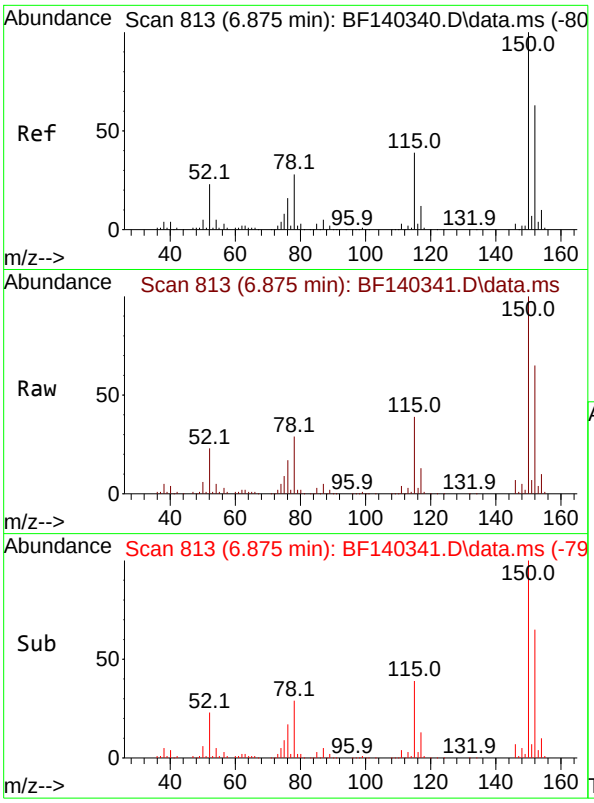
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



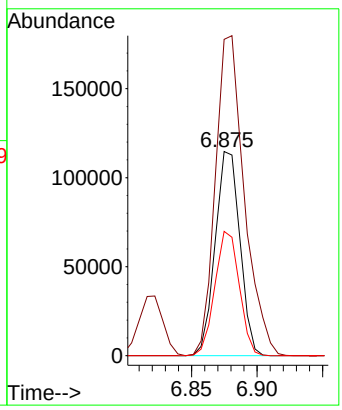


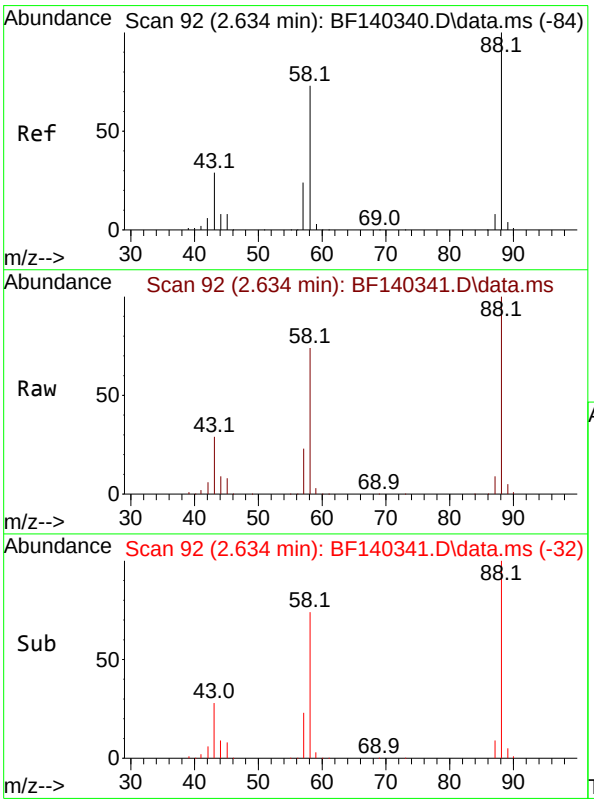
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:152 Resp: 149980

Ion	Ratio	Lower	Upper
152	100		
150	155.0	127.4	191.0
115	60.9	47.4	71.2

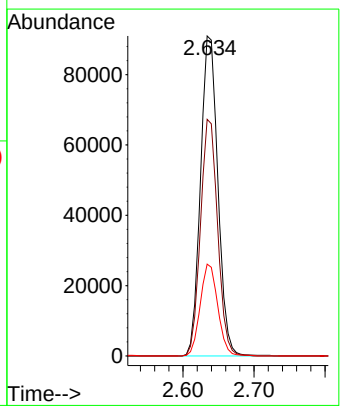


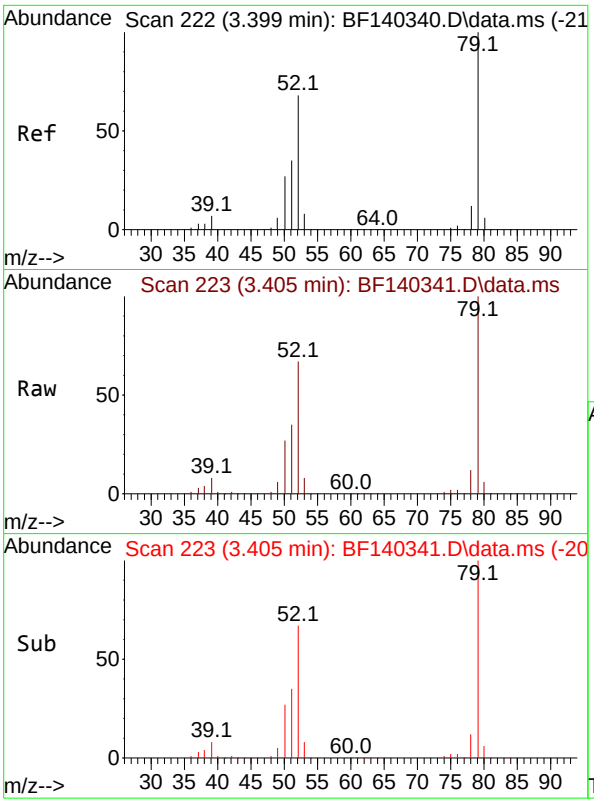


#2
1,4-Dioxane
Concen: 39.597 ng
RT: 2.634 min Scan# 92
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion: 88 Resp: 155026

Ion	Ratio	Lower	Upper
88	100		
58	73.0	59.5	89.3
43	29.0	23.4	35.2



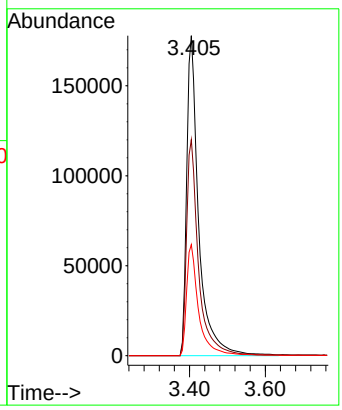


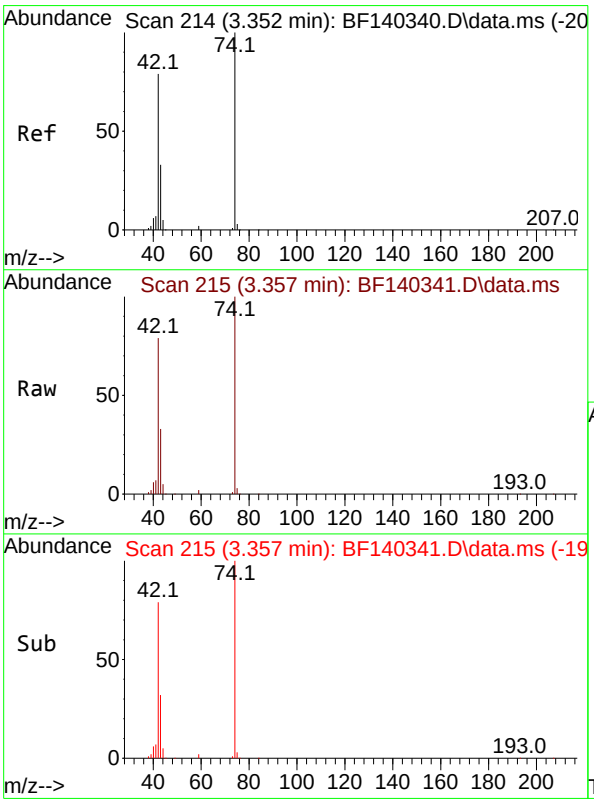
#3
Pyridine
Concen: 40.655 ng
RT: 3.405 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion: 79 Resp: 391304

Ion	Ratio	Lower	Upper
79	100		
52	67.5	53.8	80.6
51	34.7	27.3	40.9

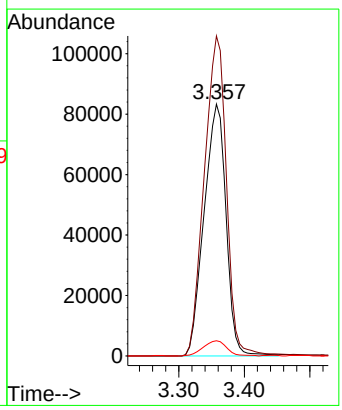


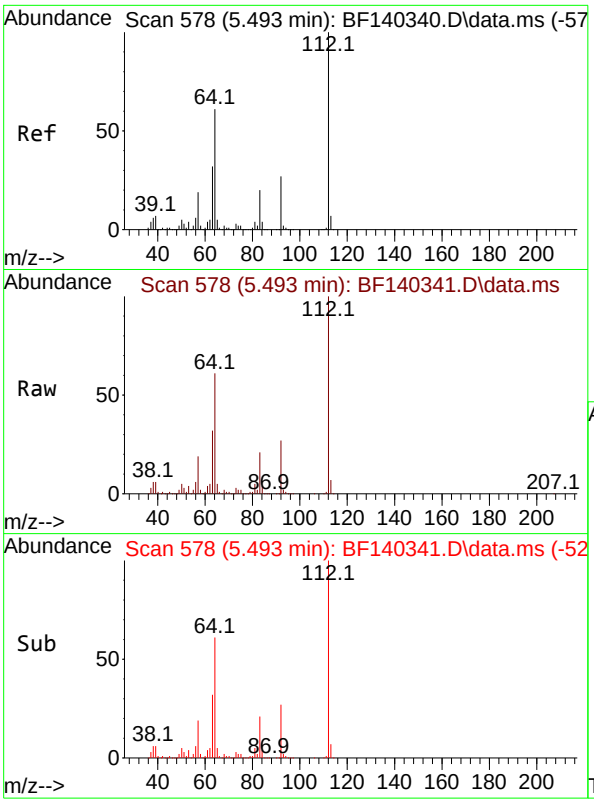


#4
n-Nitrosodimethylamine
Concen: 39.908 ng
RT: 3.357 min Scan# 215
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion: 42 Resp: 194133

Ion	Ratio	Lower	Upper
42	100		
74	127.1	103.5	155.3
44	6.0	5.1	7.7



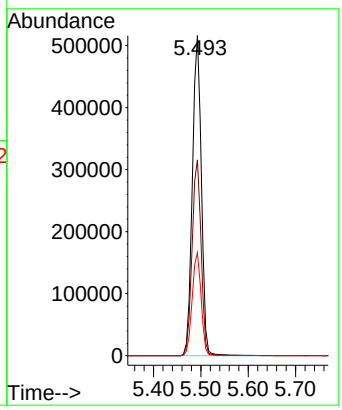


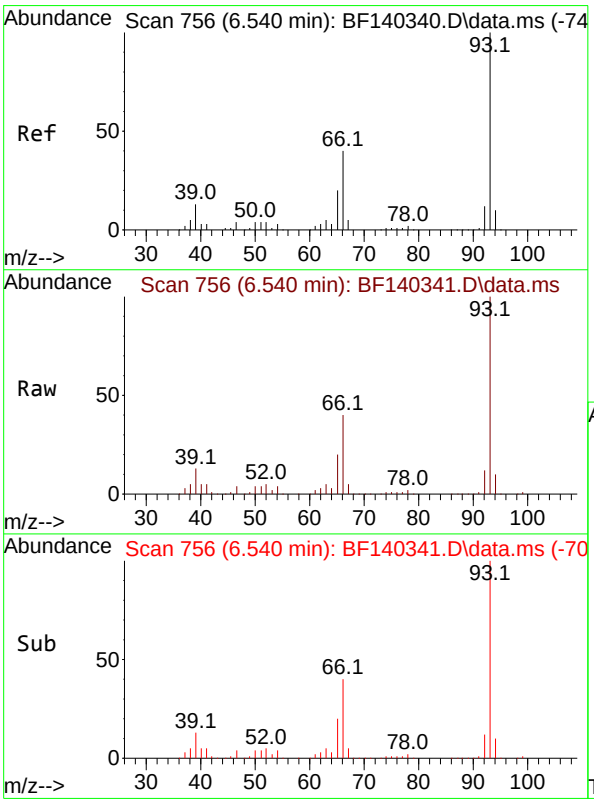
#5
2-Fluorophenol
Concen: 77.878 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:112 Resp: 684092

Ion	Ratio	Lower	Upper
112	100		
64	61.2	49.2	73.8
63	32.2	25.6	38.4

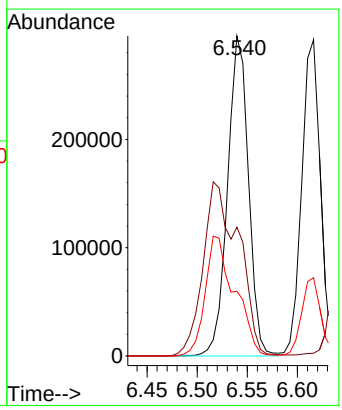


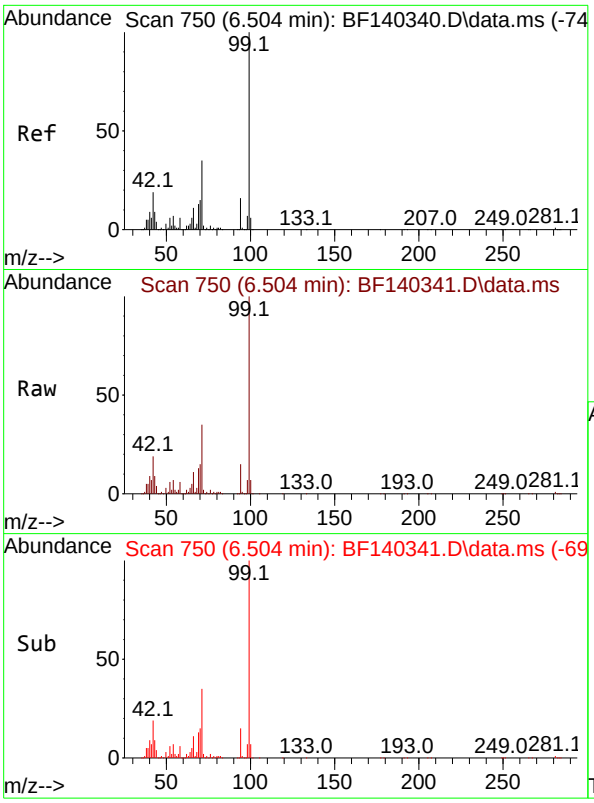


#6
Aniline
Concen: 41.531 ng
RT: 6.540 min Scan# 756
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion: 93 Resp: 429973

Ion	Ratio	Lower	Upper
93	100		
66	40.2	32.8	49.2
65	20.2	16.6	25.0



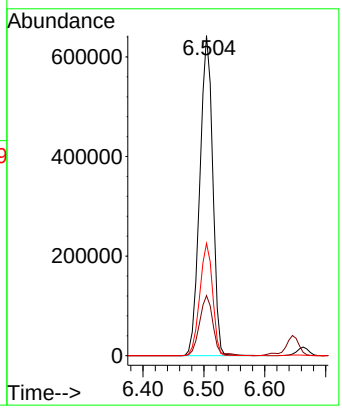


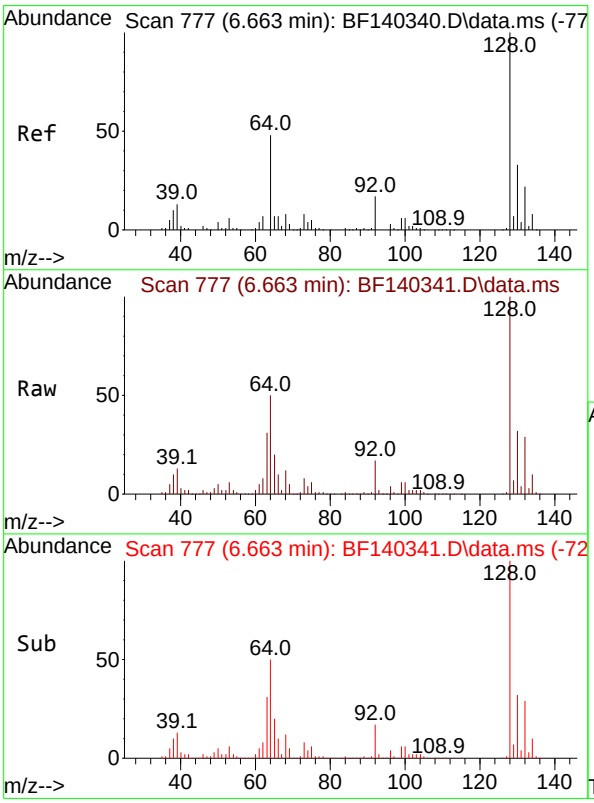
#7
Phenol-d6
Concen: 79.248 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion: 99 Resp: 943149

Ion	Ratio	Lower	Upper
99	100		
42	18.8	15.1	22.7
71	35.1	27.9	41.9

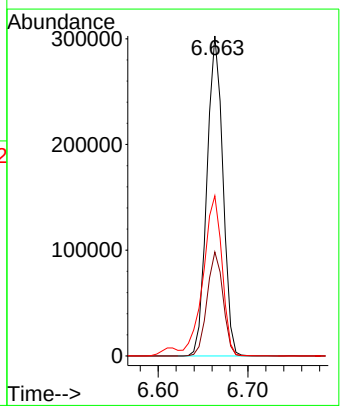


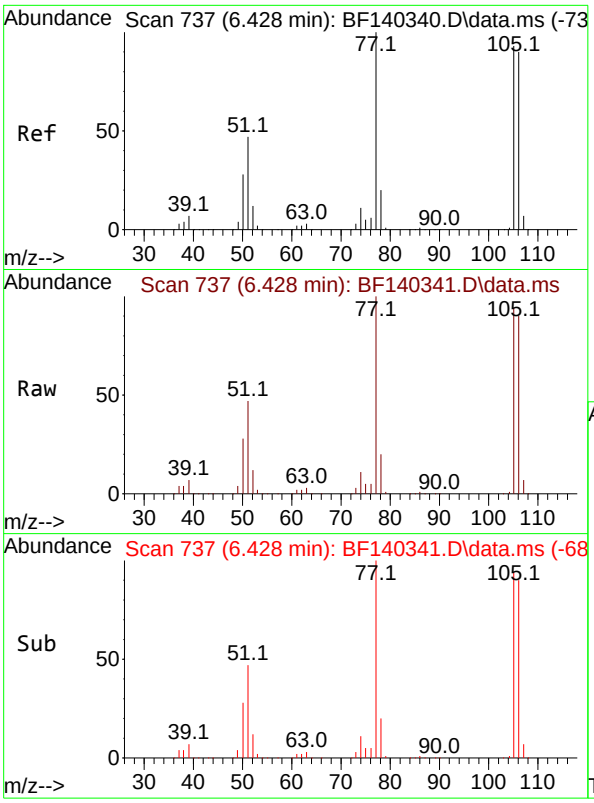


#8
2-Chlorophenol
Concen: 39.588 ng
RT: 6.663 min Scan# 777
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:128 Resp: 373546

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.2	52.2
64	50.1	30.2	70.2



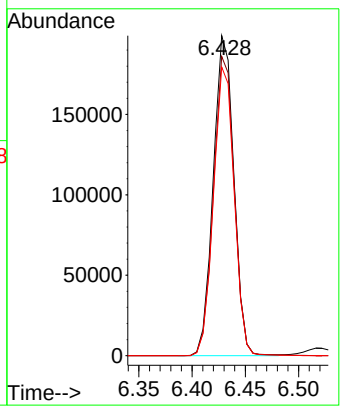


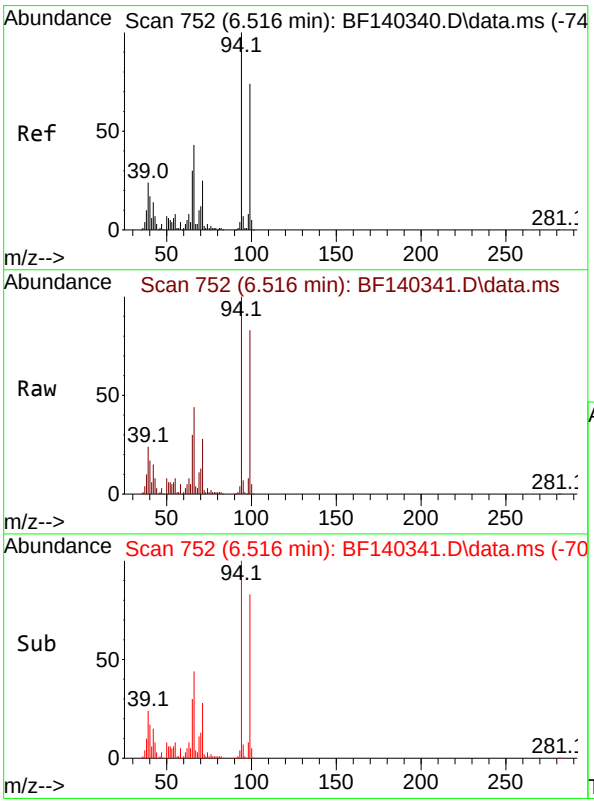
#9
Benzaldehyde
Concen: 37.337 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion: 77 Resp: 266318

Ion	Ratio	Lower	Upper
77	100		
105	93.5	74.4	114.4
106	90.2	69.9	109.9

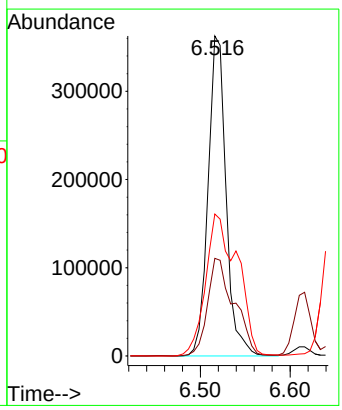


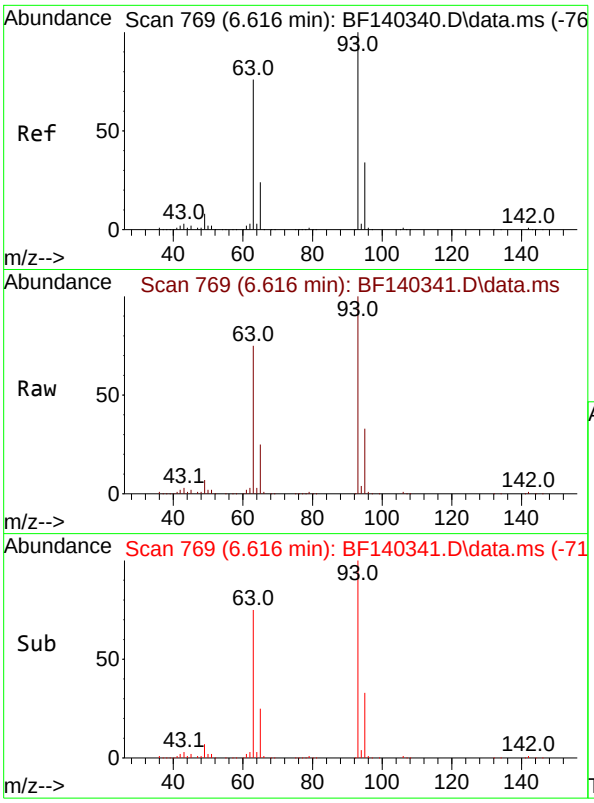


#10
Phenol
Concen: 40.259 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.006 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion: 94 Resp: 505284

Ion	Ratio	Lower	Upper
94	100		
65	30.5	10.4	50.4
66	44.4	22.9	62.9



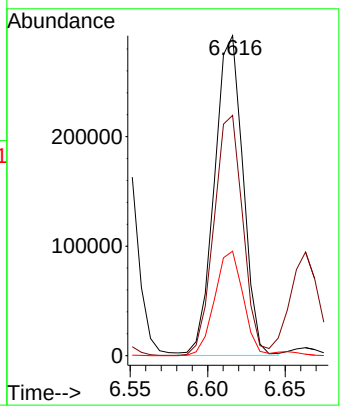


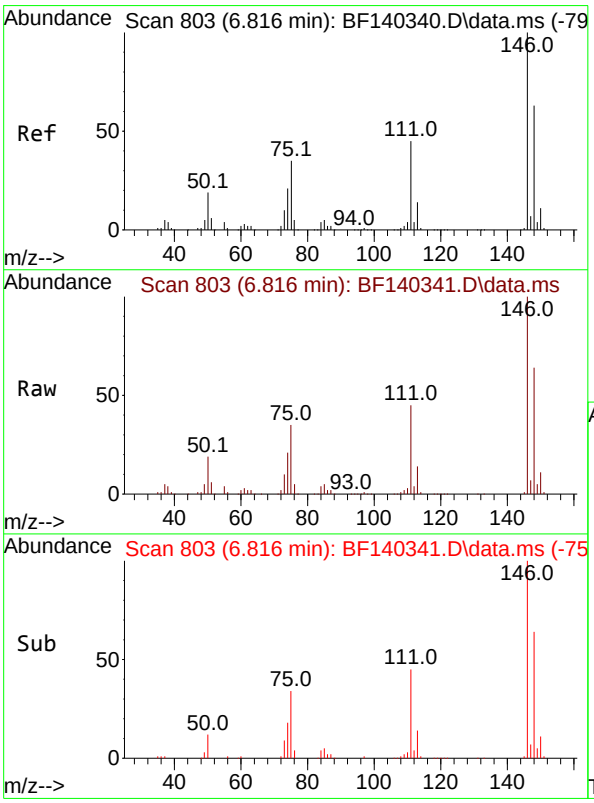
#11
bis(2-Chloroethyl)ether
Concen: 39.367 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion: 93 Resp: 374368

Ion	Ratio	Lower	Upper
93	100		
63	75.1	54.0	94.0
95	32.6	12.9	52.9

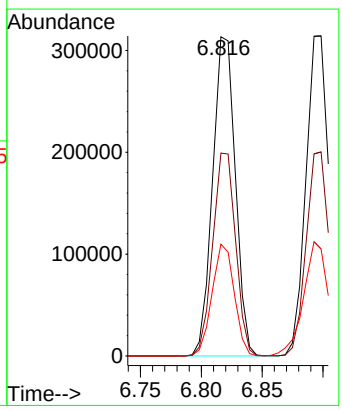


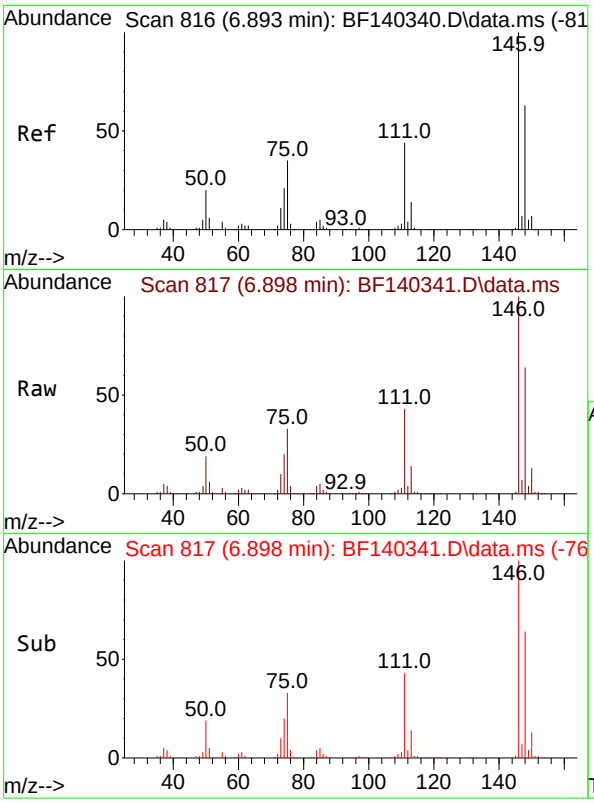


#12
1,3-Dichlorobenzene
Concen: 39.148 ng
RT: 6.816 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:146 Resp: 407569

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.7	76.1
75	35.0	26.4	39.6



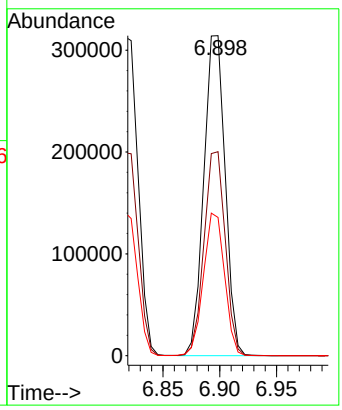


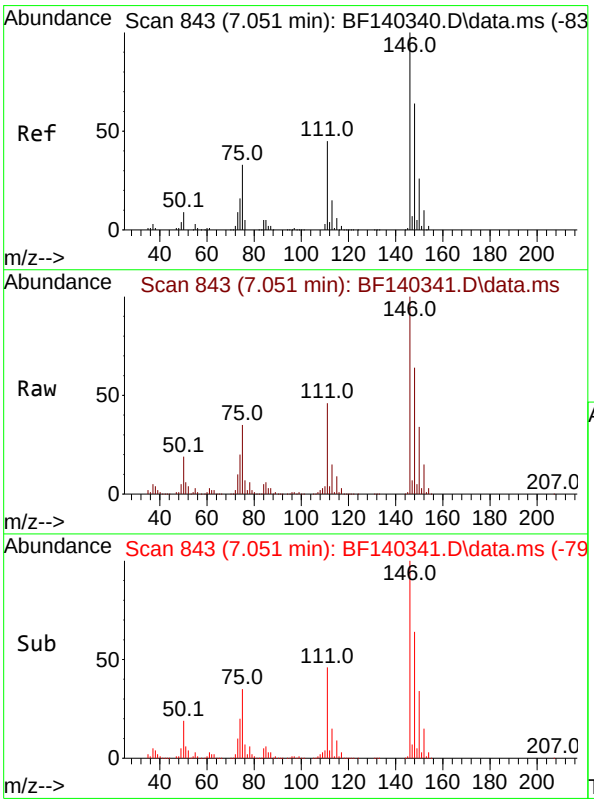
#13
1,4-Dichlorobenzene
Concen: 38.930 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:146 Resp: 410968

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.8	76.2
111	43.2	34.2	51.2

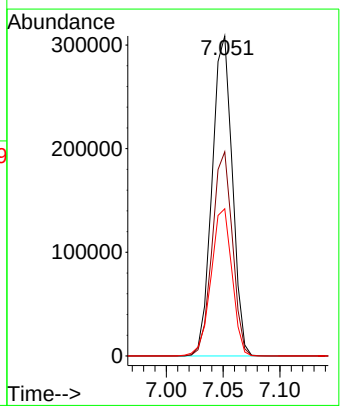


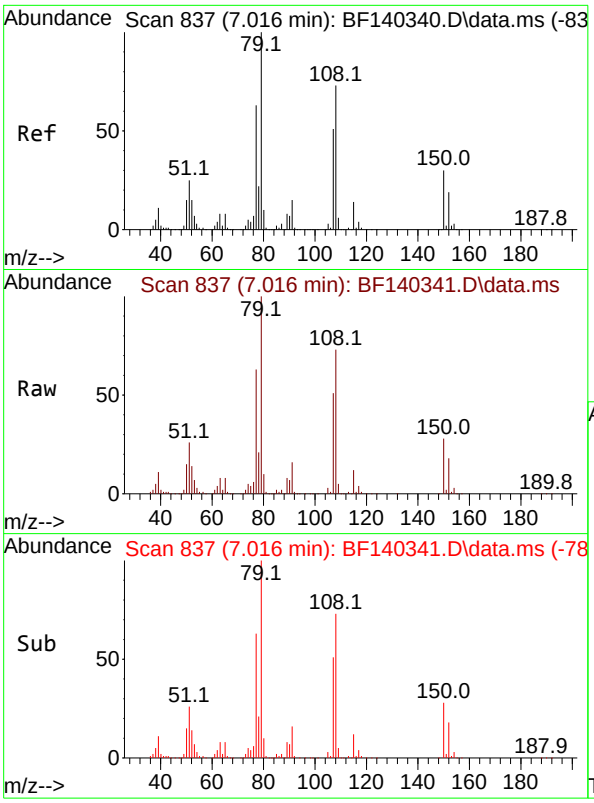


#14
1,2-Dichlorobenzene
Concen: 38.953 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:146 Resp: 381749

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.2	76.8
111	46.0	36.5	54.7



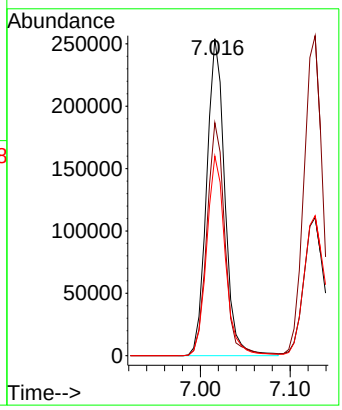


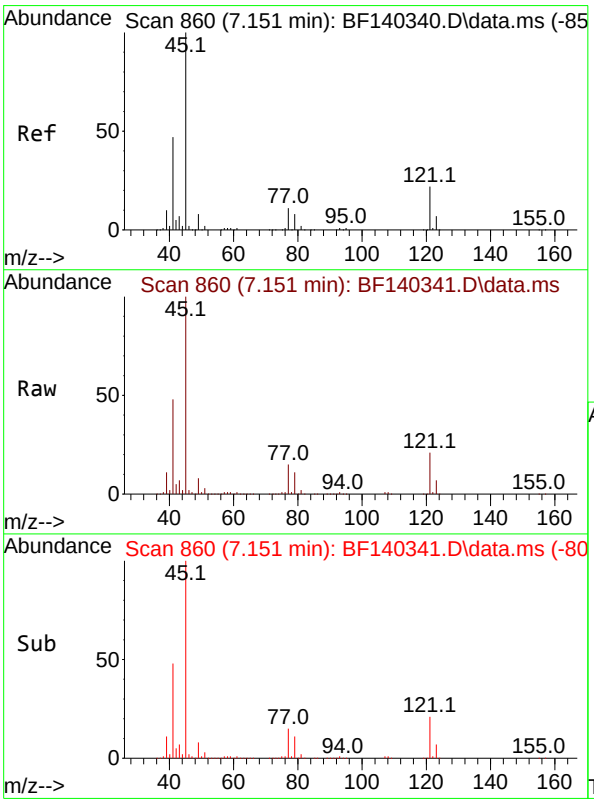
#15
Benzyl Alcohol
Concen: 41.596 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion: 79 Resp: 356665

Ion	Ratio	Lower	Upper
79	100		
108	73.5	57.8	86.6
77	63.0	49.8	74.6

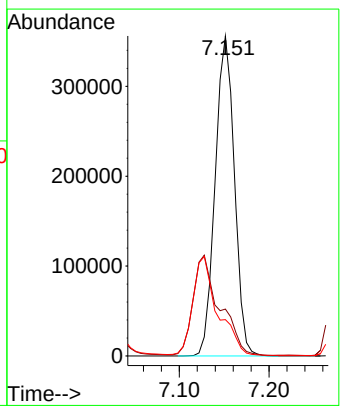


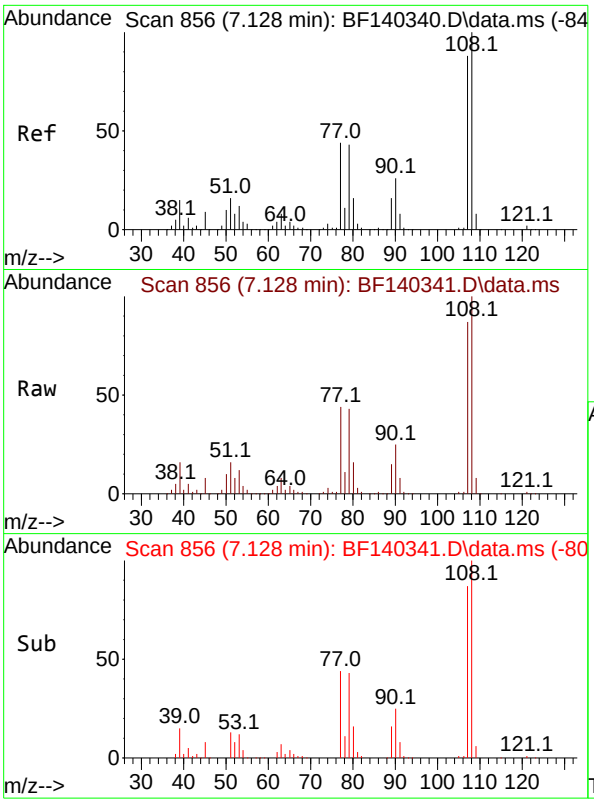


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.304 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion: 45 Resp: 529417

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	34.8
79	11.4	0.0	31.4



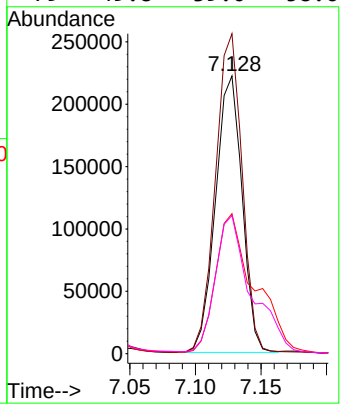


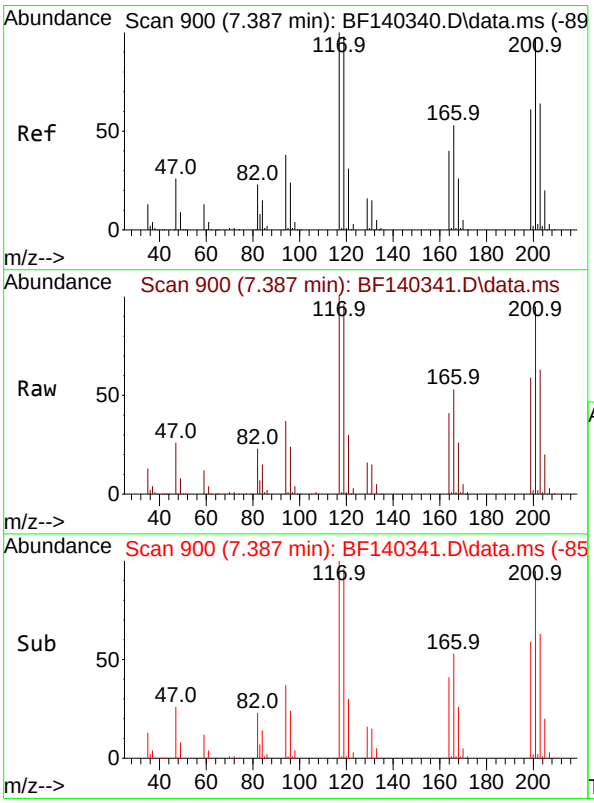
#17
2-Methylphenol
Concen: 40.228 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:107 Resp: 312261

Ion	Ratio	Lower	Upper
107	100		
108	115.2	91.9	137.9
77	50.4	39.7	59.5
79	49.8	39.0	58.6

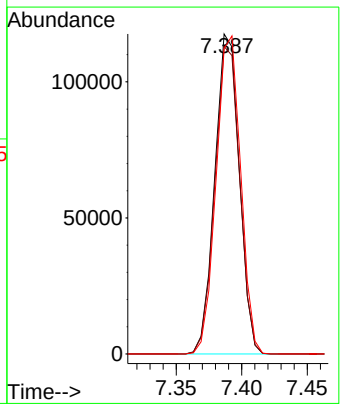


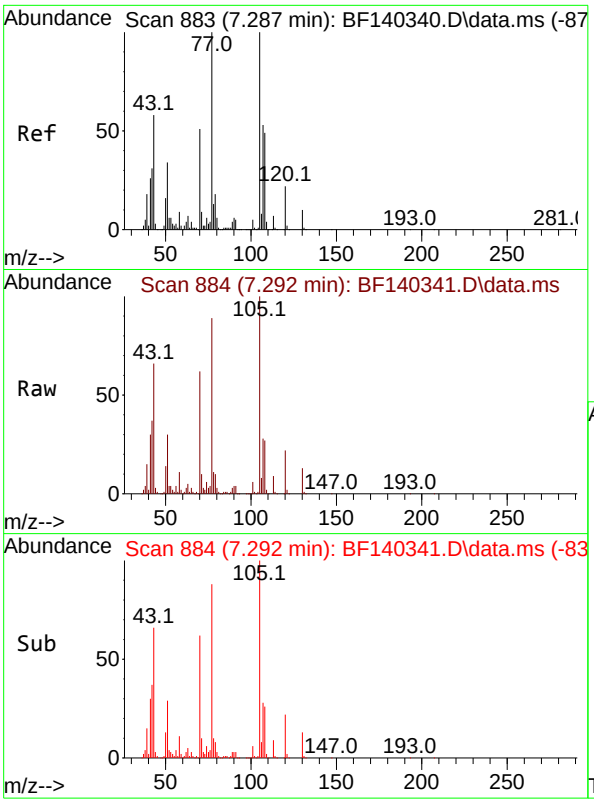


#18
Hexachloroethane
Concen: 39.149 ng
RT: 7.387 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:117 Resp: 152783

Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.9	115.3
201	95.4	80.2	120.4



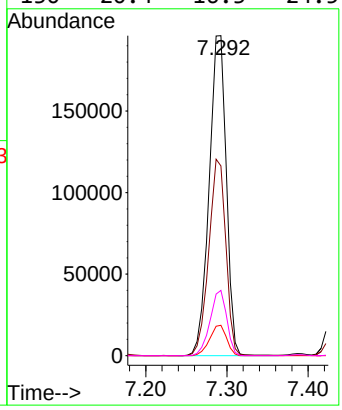


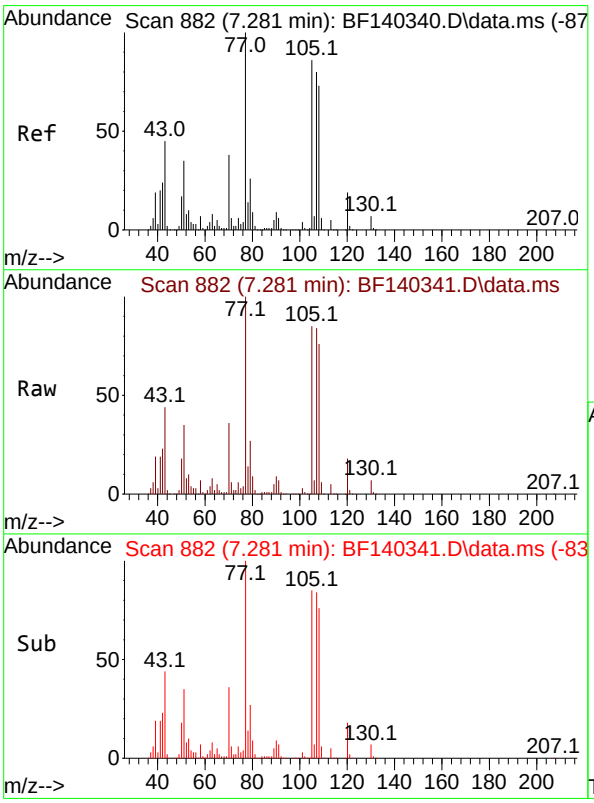
#19
n-Nitroso-di-n-propylamine
Concen: 40.079 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion: 70 Resp: 288082

Ion	Ratio	Lower	Upper
70	100		
42	59.3	46.8	70.2
101	9.5	7.5	11.3
130	20.4	16.3	24.5

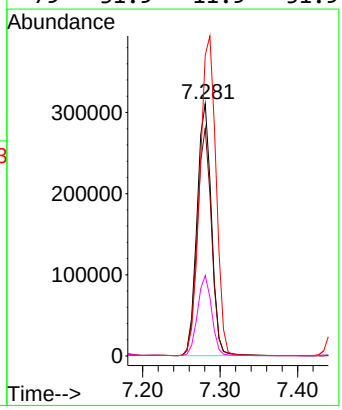


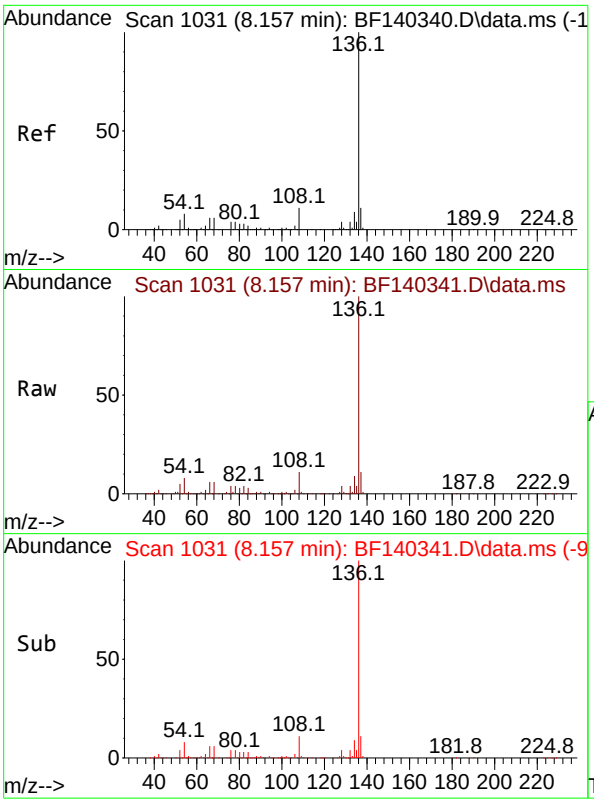


#20
3+4-Methylphenols
Concen: 41.028 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:107 Resp: 398279

Ion	Ratio	Lower	Upper
107	100		
108	90.3	71.4	111.4
77	119.3	97.0	137.0
79	31.9	11.9	51.9



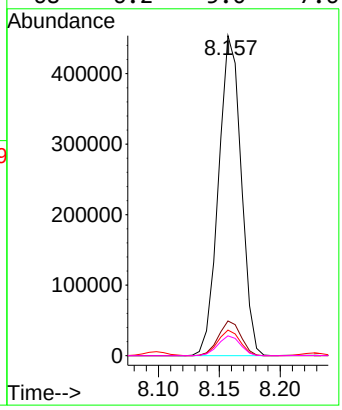


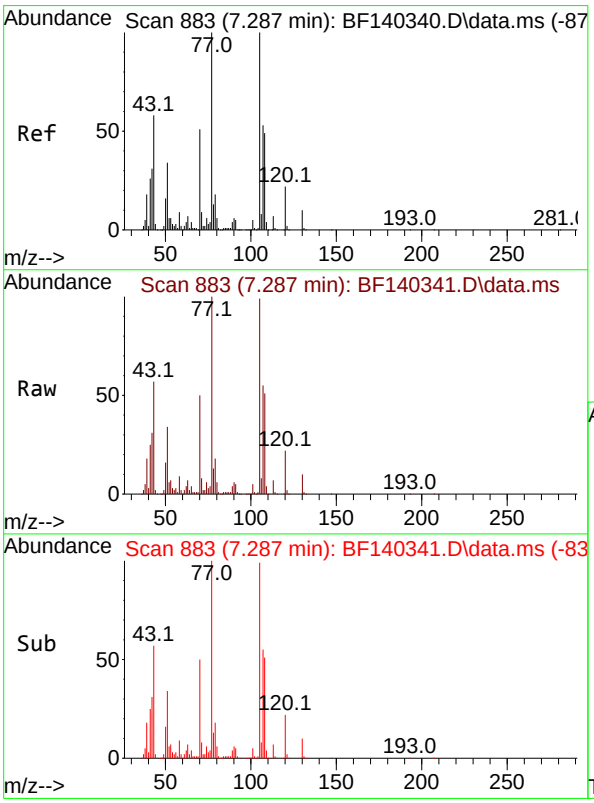
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:136 Resp: 587913

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.7	13.1
54	8.0	6.5	9.7
68	6.2	5.0	7.6

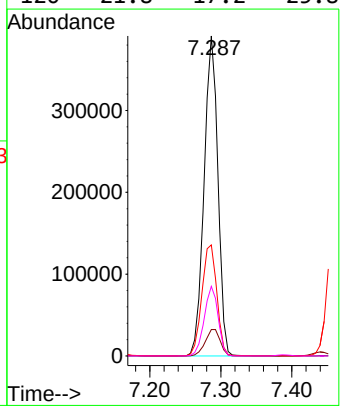


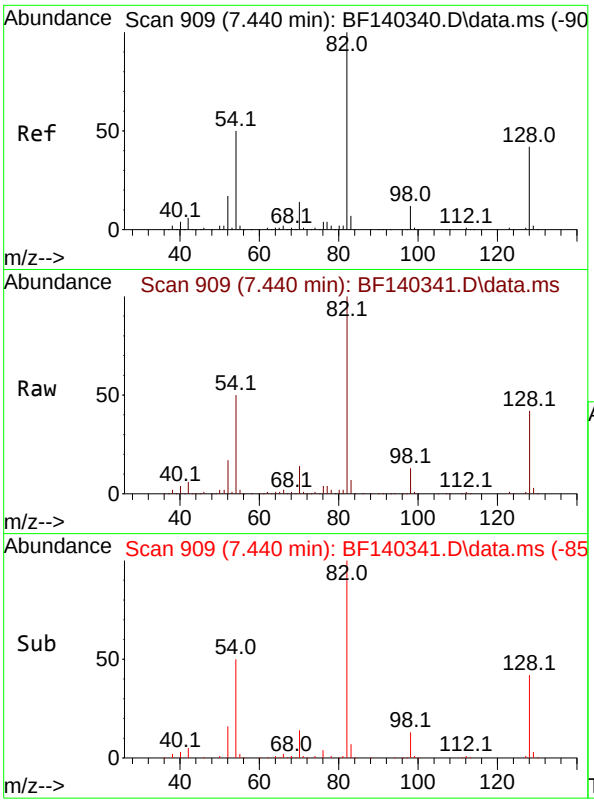


#22
Acetophenone
Concen: 38.782 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:105 Resp: 530294

Ion	Ratio	Lower	Upper
105	100		
71	8.3	6.9	10.3
51	34.7	28.6	43.0
120	21.8	17.2	25.8



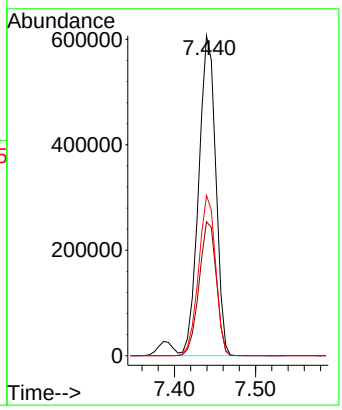


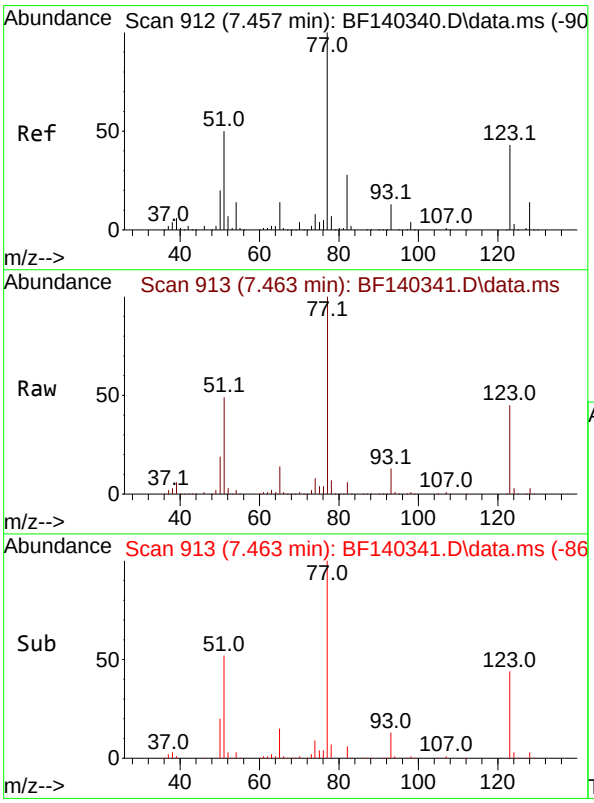
#23
Nitrobenzene-d5
Concen: 78.511 ng
RT: 7.440 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion: 82 Resp: 885901

Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.3	49.9
54	50.1	39.8	59.8

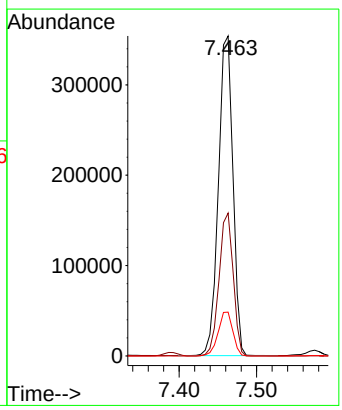


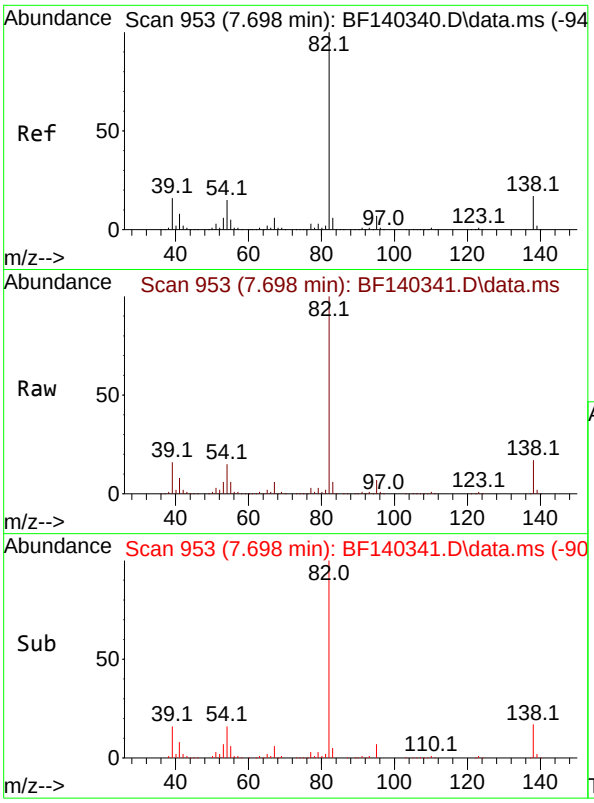


#24
Nitrobenzene
Concen: 39.284 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion: 77 Resp: 461518

Ion	Ratio	Lower	Upper
77	100		
123	44.6	35.4	53.0
65	13.7	11.1	16.7



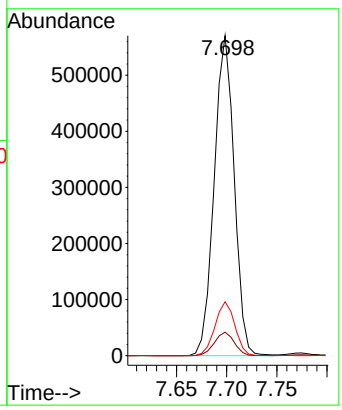


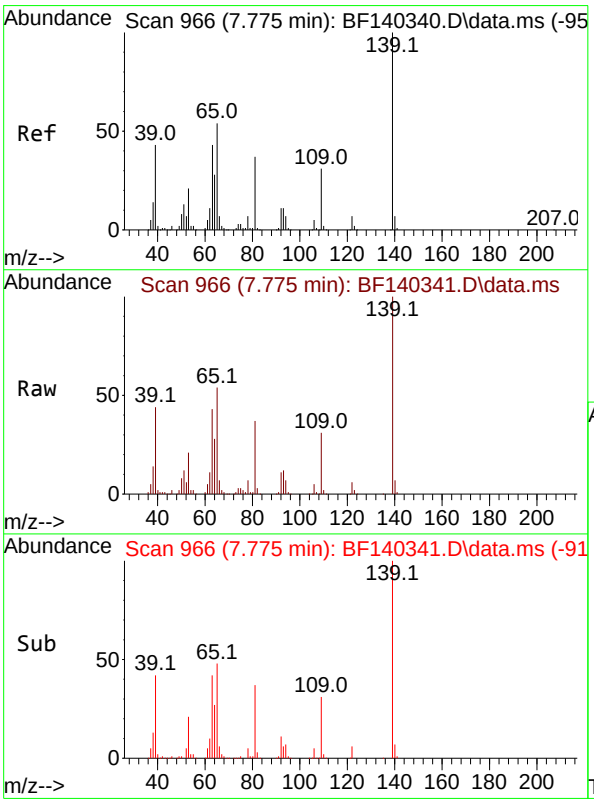
#25
Isophorone
Concen: 39.558 ng
RT: 7.698 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion: 82 Resp: 791096

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.9	8.9
138	16.8	13.4	20.2

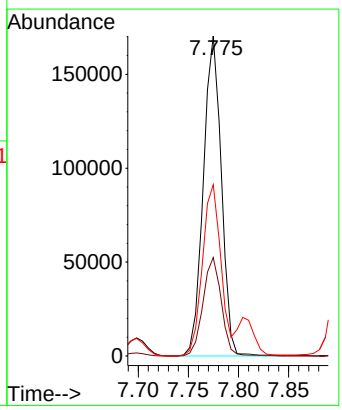


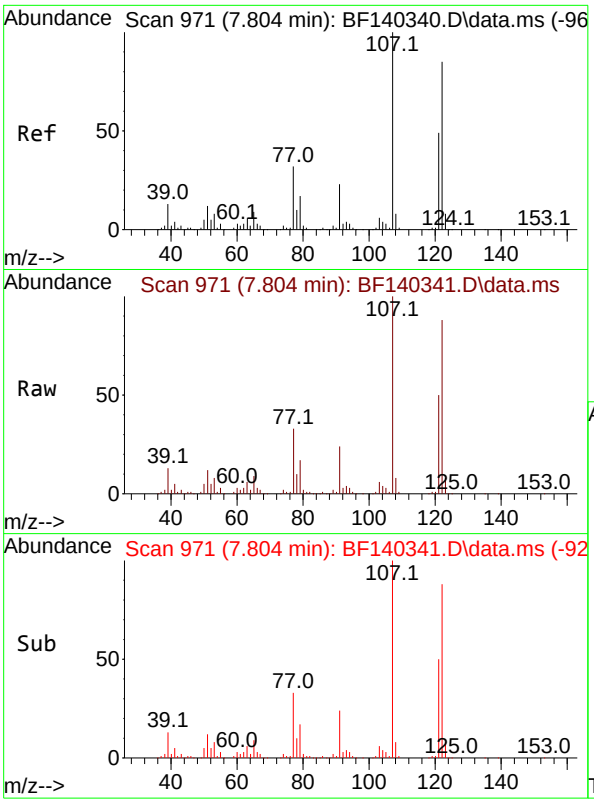


#26
2-Nitrophenol
Concen: 40.850 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:139 Resp: 212967

Ion	Ratio	Lower	Upper
139	100		
109	30.8	24.4	36.6
65	53.5	42.8	64.2



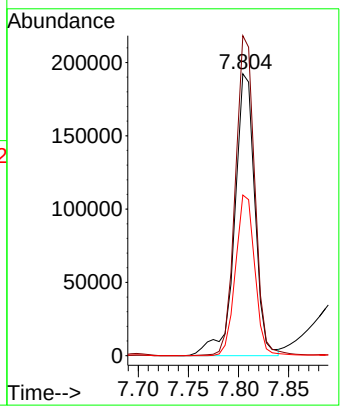


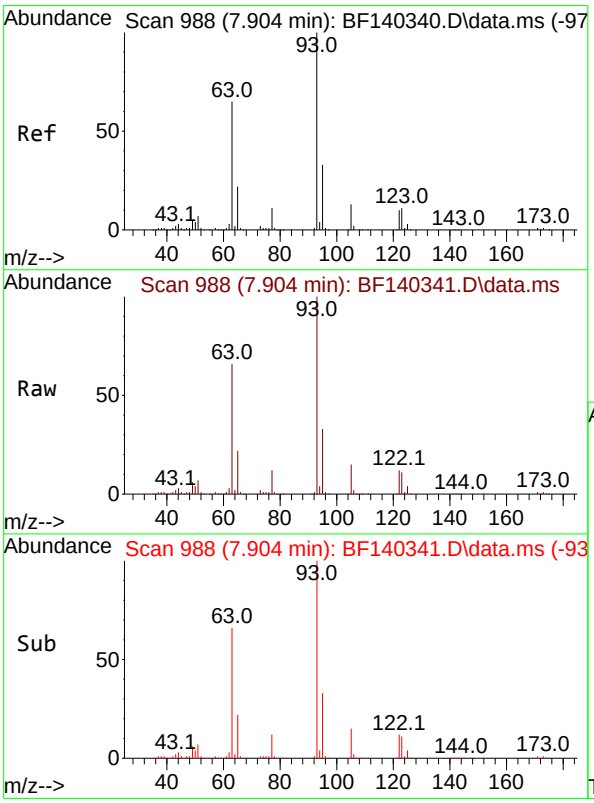
#27
2,4-Dimethylphenol
Concen: 40.536 ng
RT: 7.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:122 Resp: 270554

Ion	Ratio	Lower	Upper
122	100		
107	113.5	91.3	136.9
121	57.0	45.5	68.3

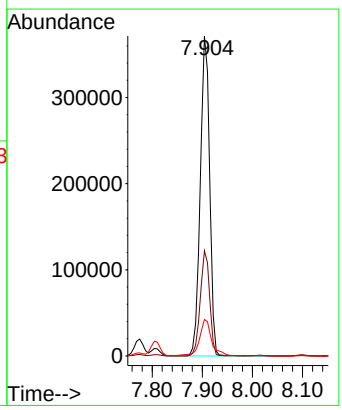


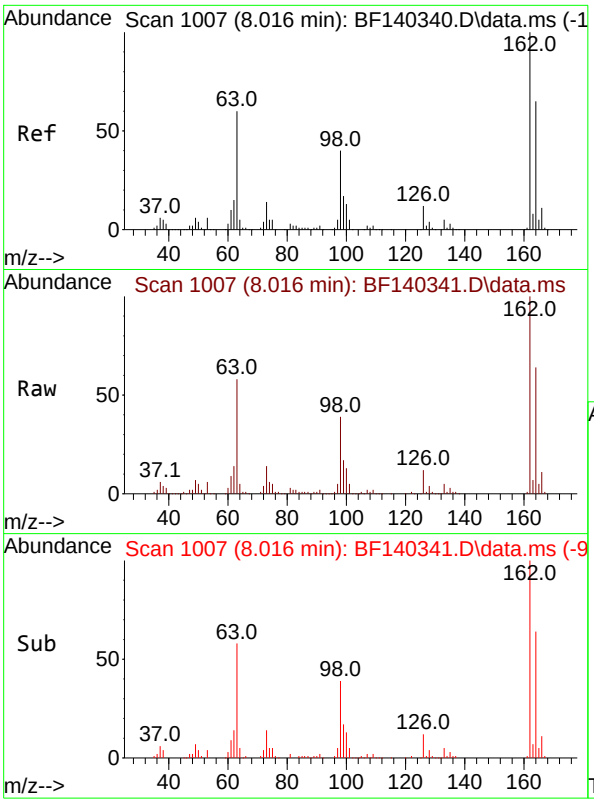


#28
bis(2-Chloroethoxy)methane
Concen: 39.258 ng
RT: 7.904 min Scan# 988
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion: 93 Resp: 481393

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.9	38.9
123	11.4	9.2	13.8



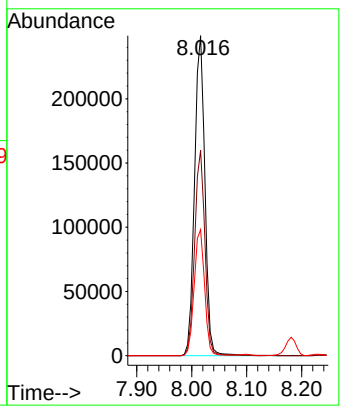


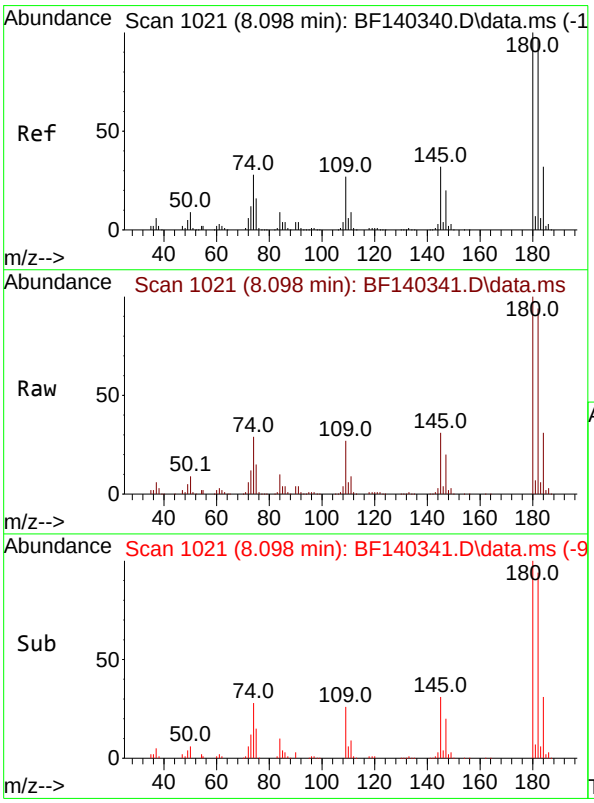
#29
2,4-Dichlorophenol
Concen: 39.545 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:162 Resp: 326198

Ion	Ratio	Lower	Upper
162	100		
164	64.1	45.4	85.4
98	39.4	19.9	59.9

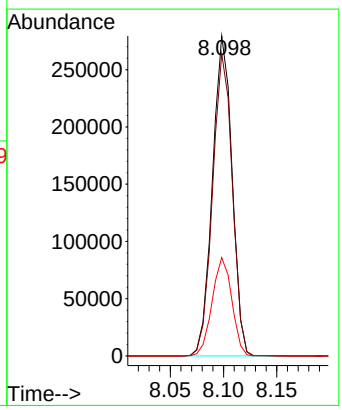


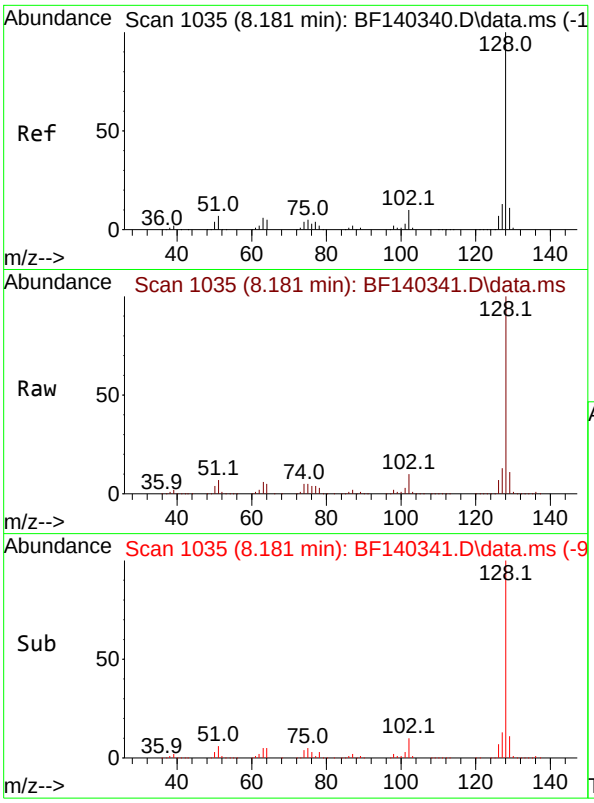


#30
1,2,4-Trichlorobenzene
Concen: 38.843 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:180 Resp: 356725

Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.5	114.7
145	30.8	25.3	37.9



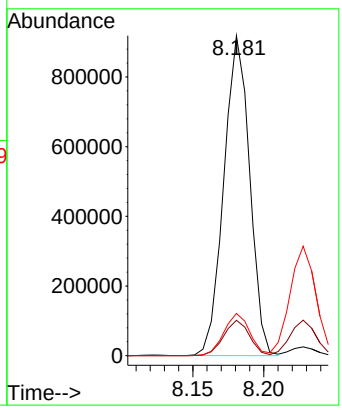


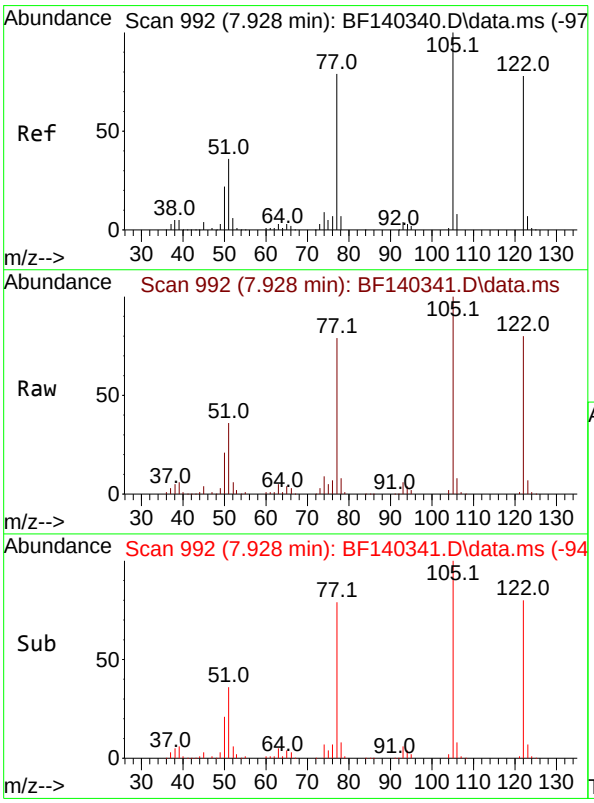
#31
Naphthalene
Concen: 38.889 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:128 Resp: 1159811

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.6	15.8

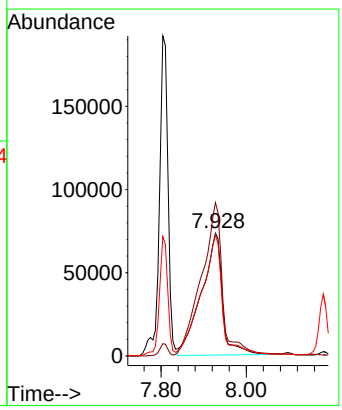


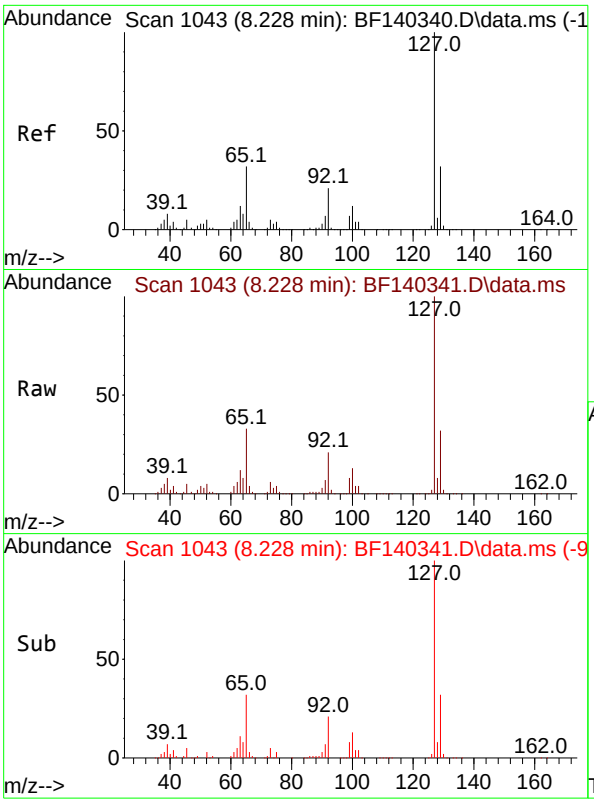


#32
Benzoic acid
Concen: 42.635 ng
RT: 7.928 min Scan# 992
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:122 Resp: 250402

Ion	Ratio	Lower	Upper
122	100		
105	124.8	100.9	140.9
77	98.6	76.0	116.0



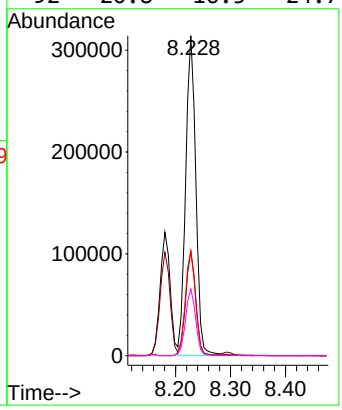


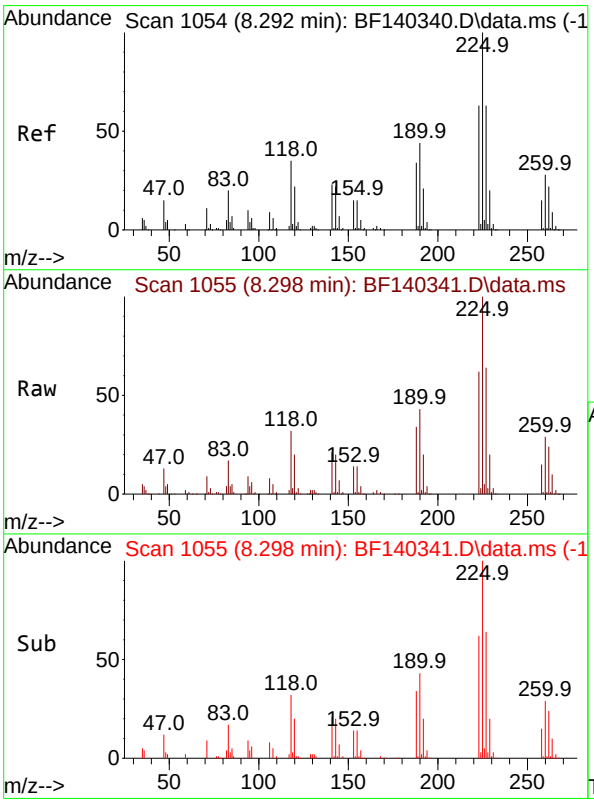
#33
4-Chloroaniline
Concen: 38.996 ng
RT: 8.228 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:127 Resp: 404464

Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.2	39.4
65	32.8	25.8	38.6
92	20.8	16.5	24.7

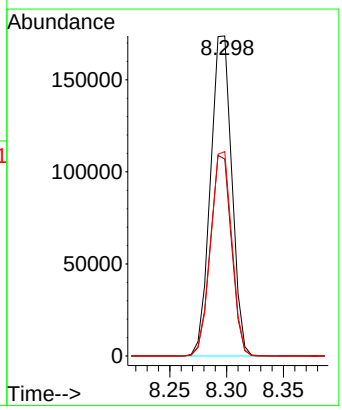


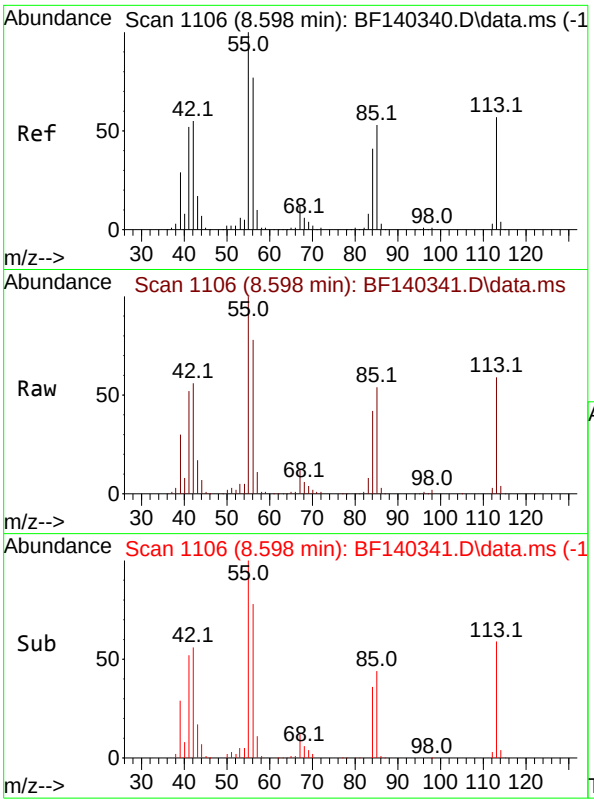


#34
Hexachlorobutadiene
Concen: 38.804 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:225 Resp: 227054

Ion	Ratio	Lower	Upper
225	100		
223	61.5	50.1	75.1
227	63.9	51.3	76.9



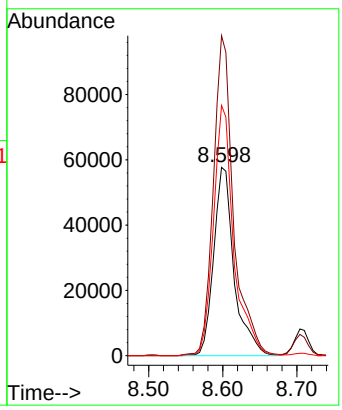


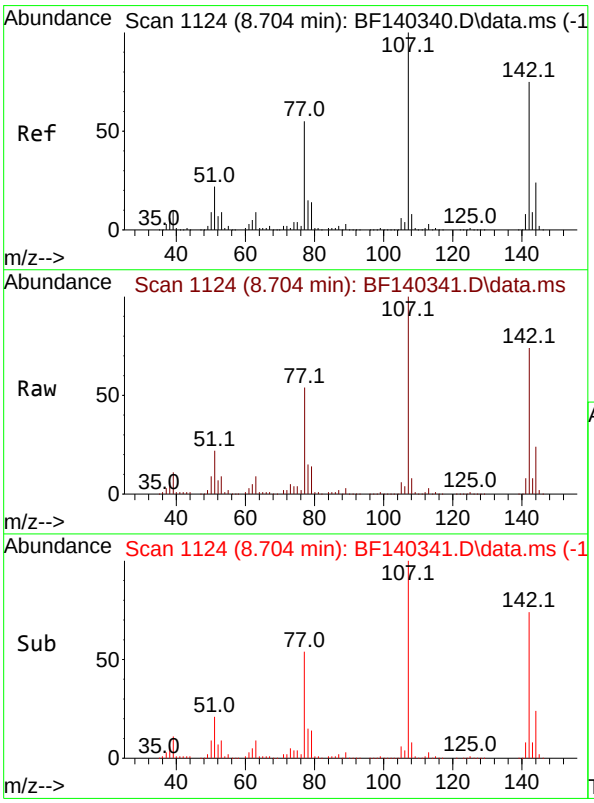
#35
Caprolactam
Concen: 40.345 ng
RT: 8.598 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:113 Resp: 110611

Ion	Ratio	Lower	Upper
113	100		
55	169.9	150.0	190.0
56	132.9	111.1	151.1

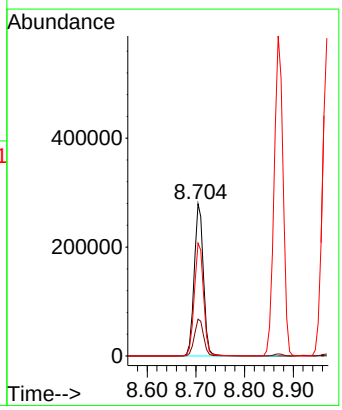


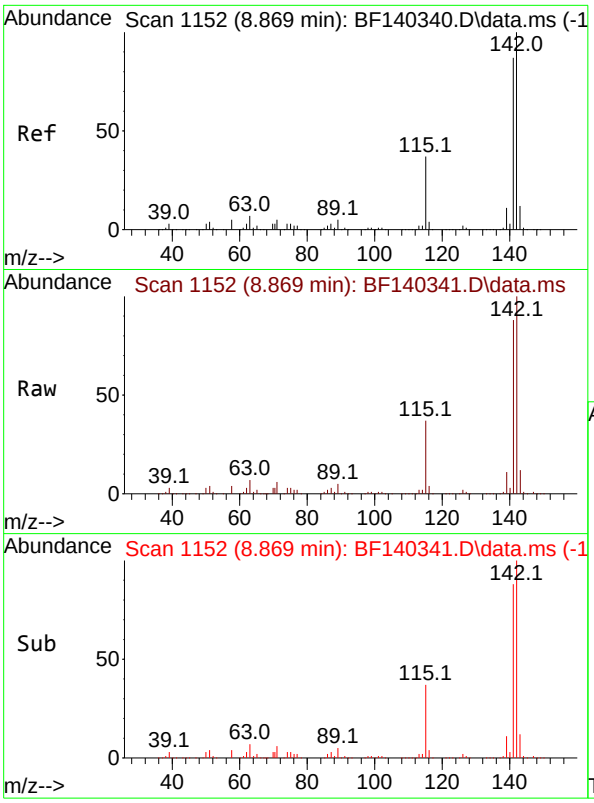


#36
4-Chloro-3-methylphenol
Concen: 40.356 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:107 Resp: 368906

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.3	28.9
142	74.1	59.4	89.0



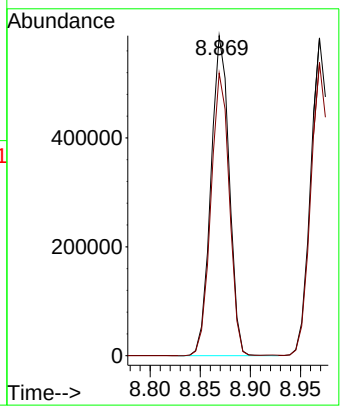


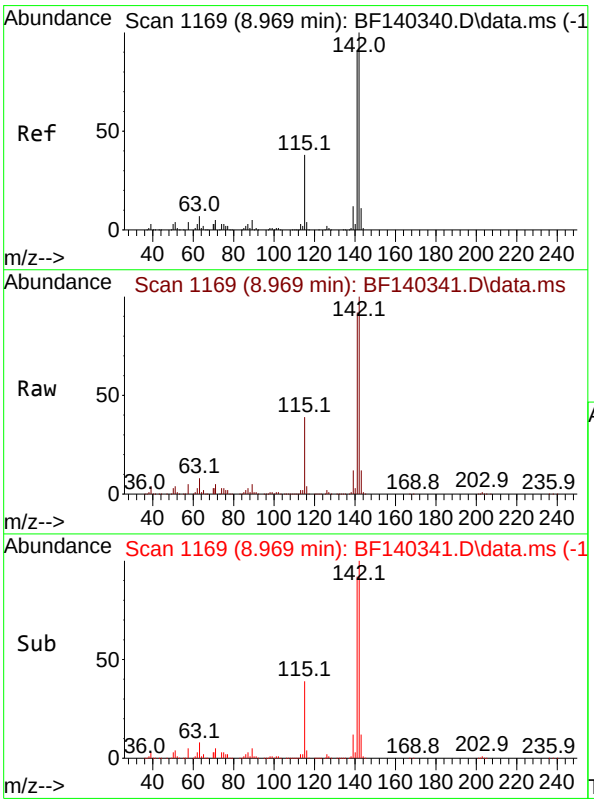
#37
2-Methylnaphthalene
Concen: 39.072 ng
RT: 8.869 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:142 Resp: 747189

Ion	Ratio	Lower	Upper
142	100		
141	88.3	70.4	105.6

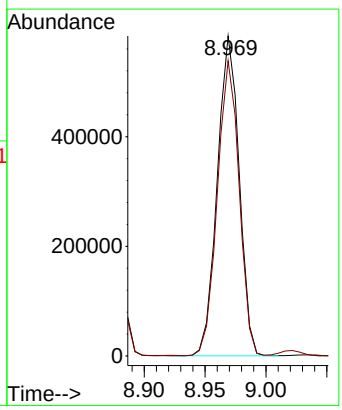


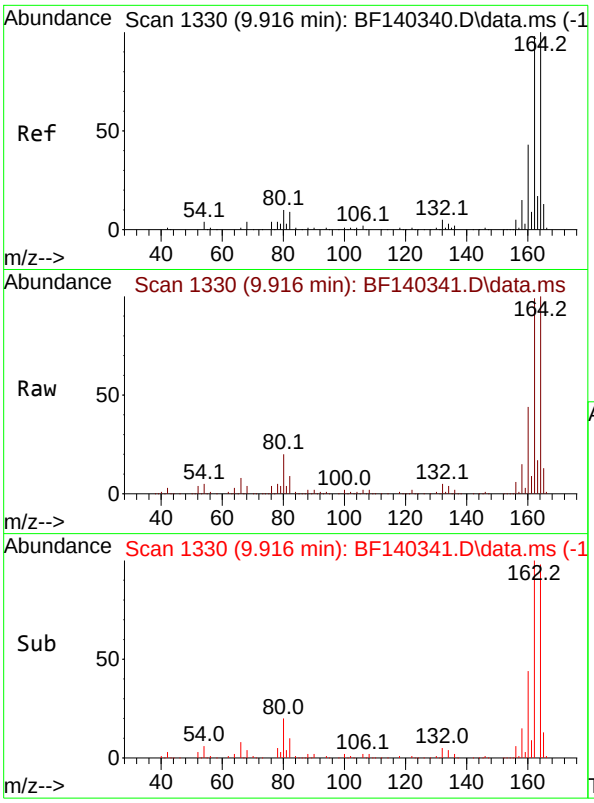


#38
1-Methylnaphthalene
Concen: 38.933 ng
RT: 8.969 min Scan# 1169
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:142 Resp: 729079

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.6	110.4



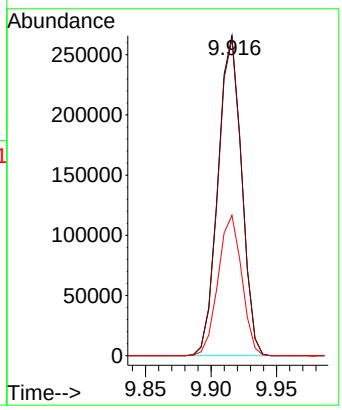


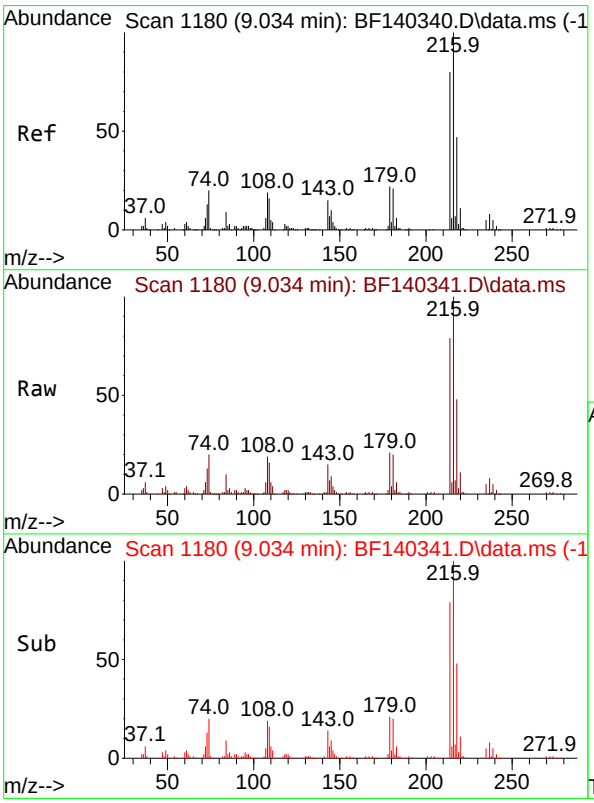
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:164 Resp: 333123

Ion	Ratio	Lower	Upper
164	100		
162	98.9	79.8	119.8
160	43.9	35.4	53.0

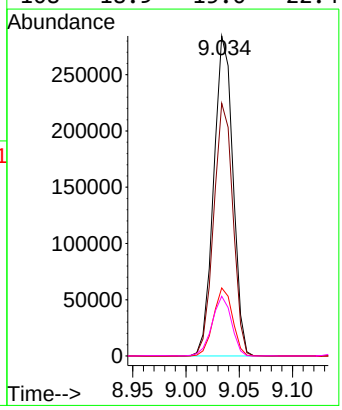


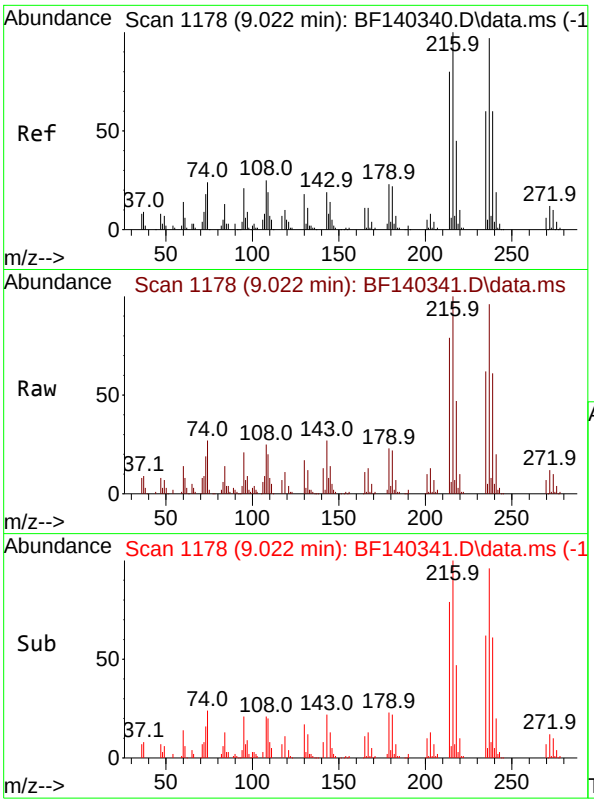


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.657 ng
RT: 9.034 min Scan# 1180
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:216 Resp: 356102

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.2	94.8
179	21.1	17.2	25.8
108	18.9	15.0	22.4



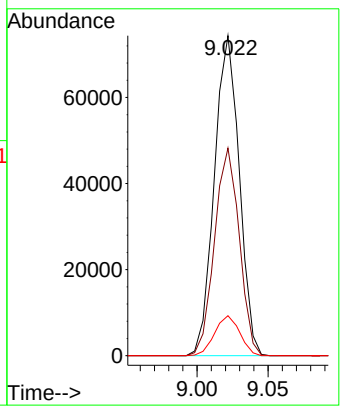


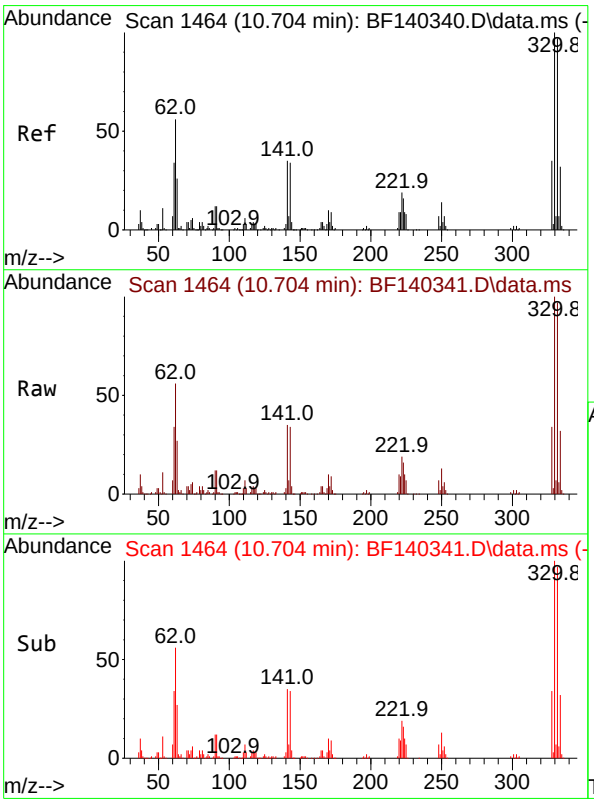
#41
Hexachlorocyclopentadiene
Concen: 38.267 ng
RT: 9.022 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:237 Resp: 90509

Ion	Ratio	Lower	Upper
237	100		
235	64.9	42.8	82.8
272	12.5	0.0	33.1

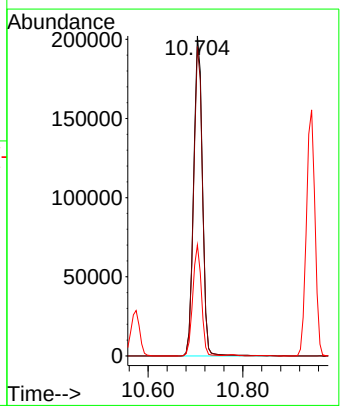


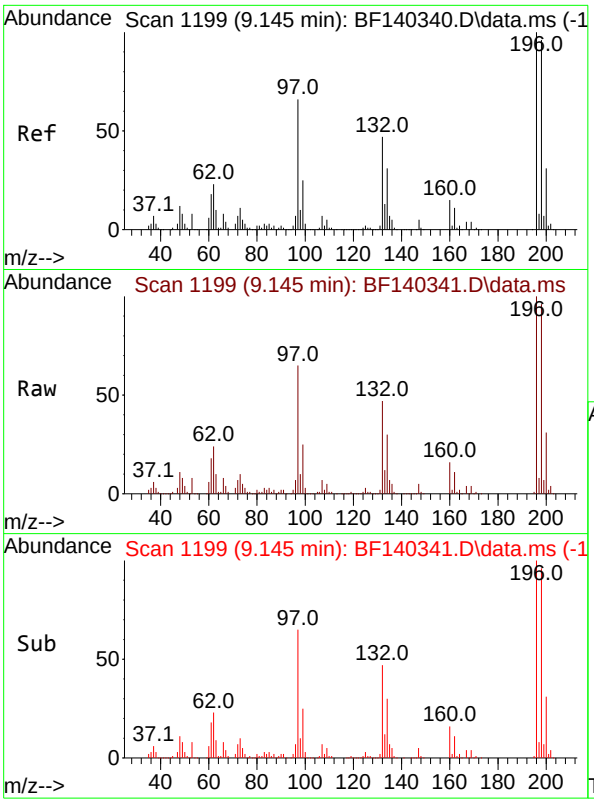


#42
2,4,6-Tribromophenol
Concen: 78.617 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:330 Resp: 260432

Ion	Ratio	Lower	Upper
330	100		
332	96.3	75.9	113.9
141	34.0	26.9	40.3



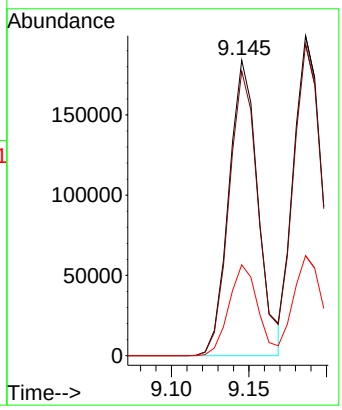


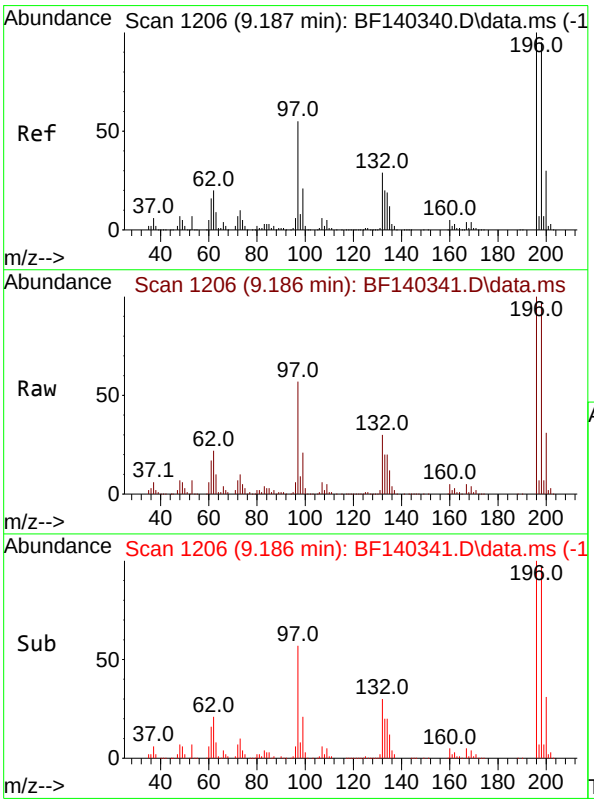
#43
2,4,6-Trichlorophenol
Concen: 39.769 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:196 Resp: 240423

Ion	Ratio	Lower	Upper
196	100		
198	96.2	77.0	115.4
200	30.8	24.2	36.4

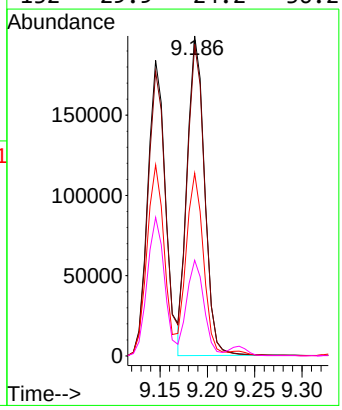


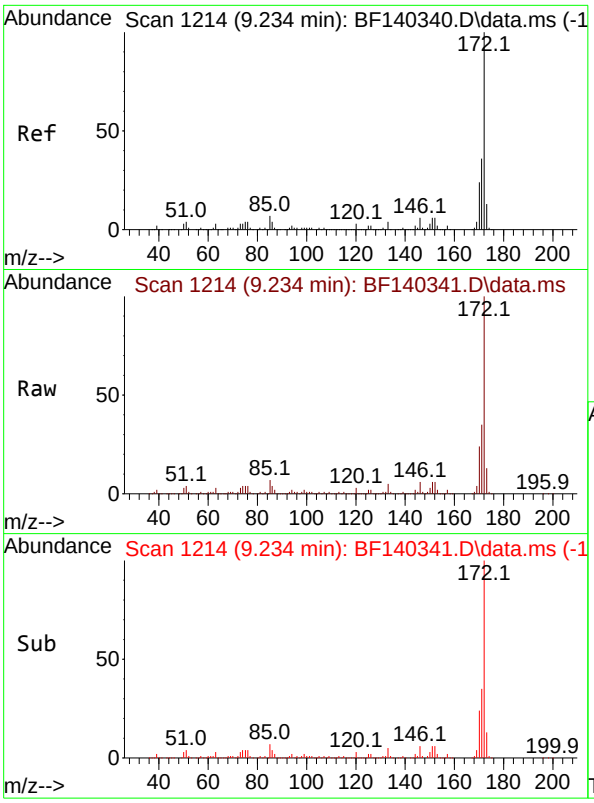


#44
2,4,5-Trichlorophenol
Concen: 38.542 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:196 Resp: 254749

Ion	Ratio	Lower	Upper
196	100		
198	97.4	77.6	116.4
97	57.1	45.4	68.2
132	29.9	24.2	36.2



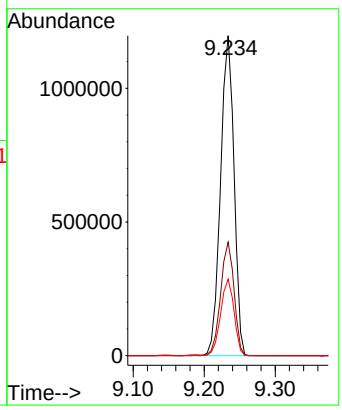


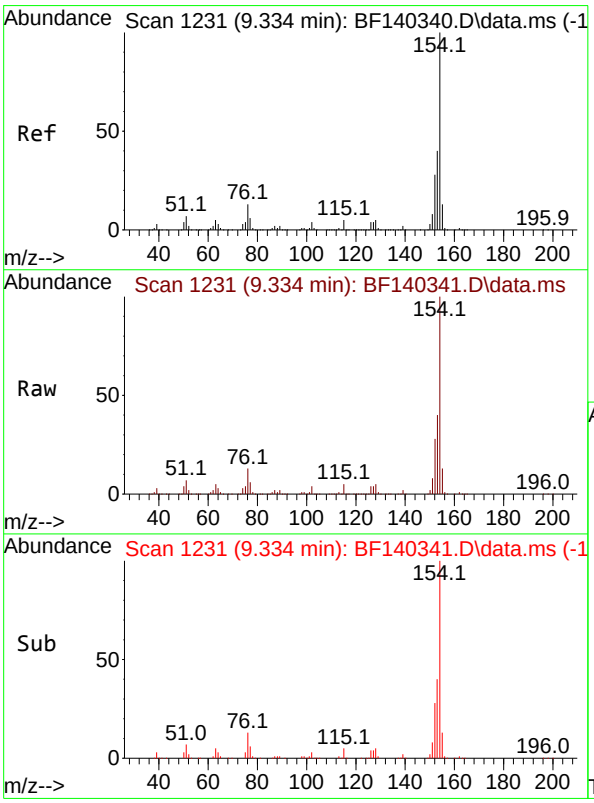
#45
2-Fluorobiphenyl
Concen: 75.707 ng
RT: 9.234 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:172 Resp: 1568824

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.5	42.7
170	23.9	19.1	28.7

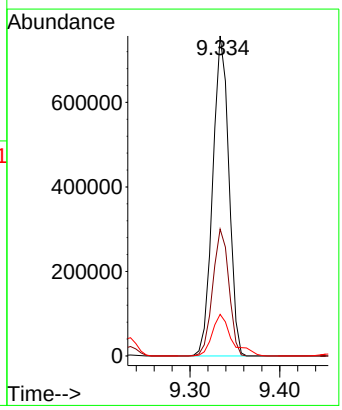


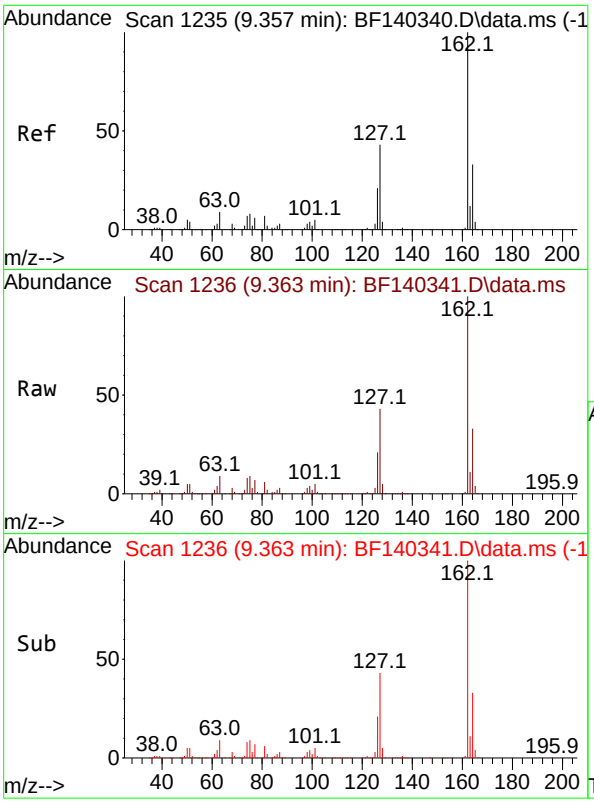


#46
1,1'-Biphenyl
Concen: 39.068 ng
RT: 9.334 min Scan# 1231
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:154 Resp: 946801

Ion	Ratio	Lower	Upper
154	100		
153	39.7	20.4	60.4
76	13.0	0.0	32.9



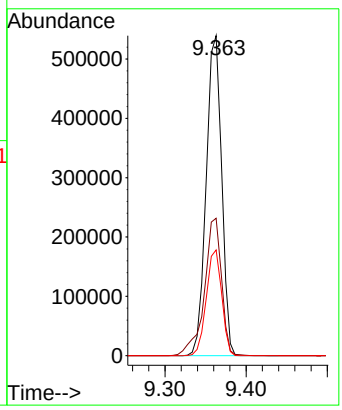


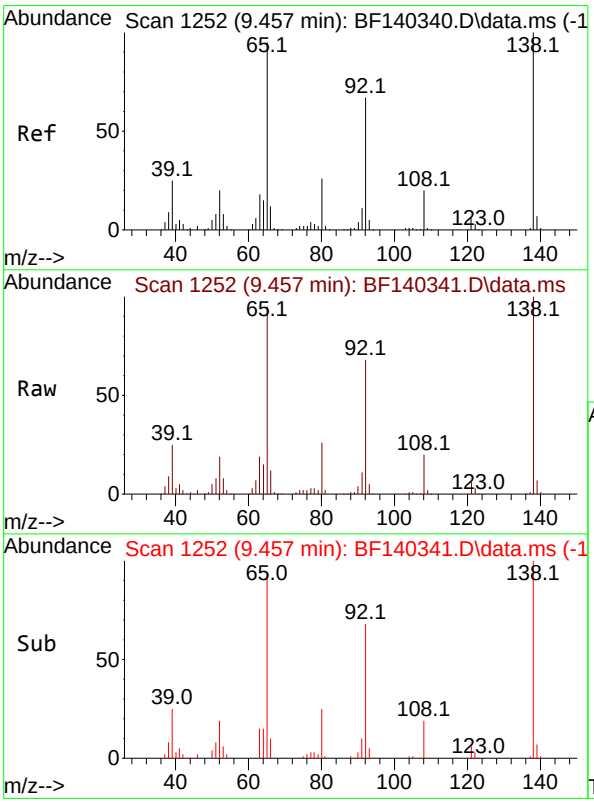
#47
2-Chloronaphthalene
Concen: 38.543 ng
RT: 9.363 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:162 Resp: 711544

Ion	Ratio	Lower	Upper
162	100		
127	43.0	34.0	51.0
164	33.0	26.5	39.7

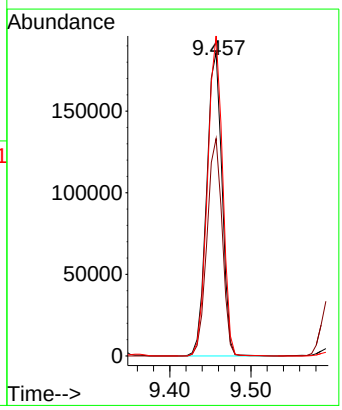


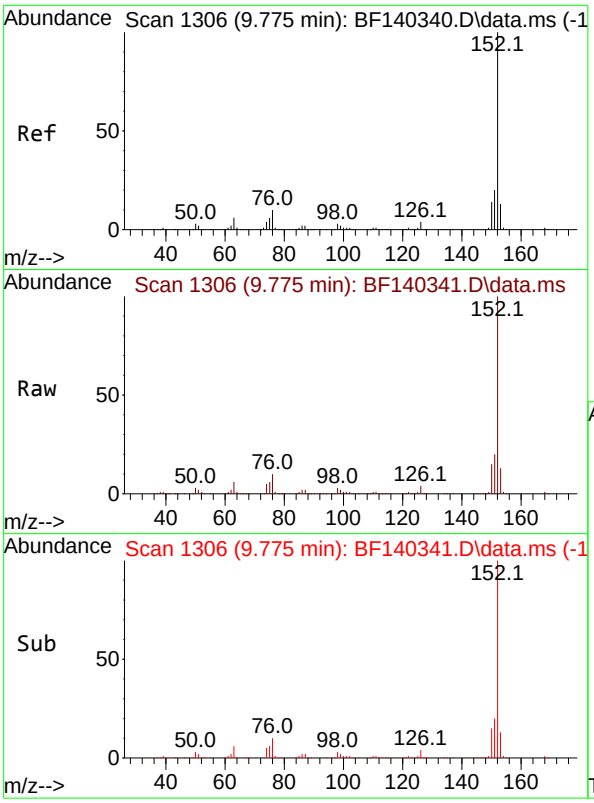


#48
2-Nitroaniline
Concen: 39.821 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion: 65 Resp: 243803

Ion	Ratio	Lower	Upper
65	100		
92	71.6	56.4	84.6
138	105.4	84.8	127.2



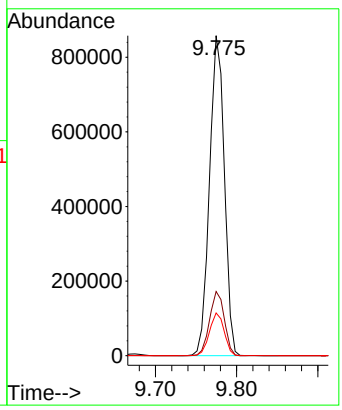


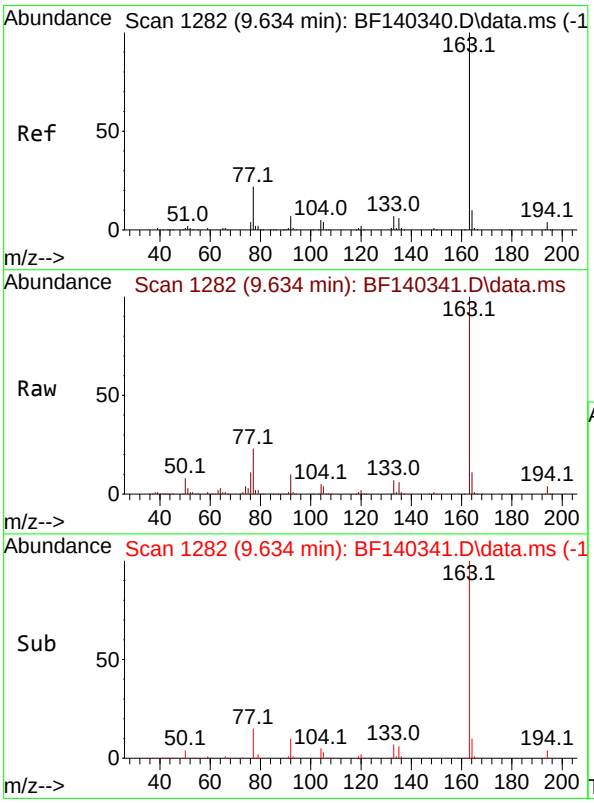
#49
Acenaphthylene
Concen: 38.962 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:152 Resp: 1088251

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.1	24.1
153	13.3	10.7	16.1

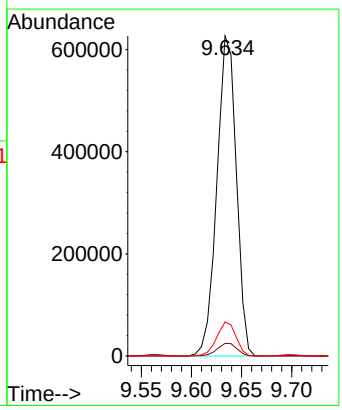


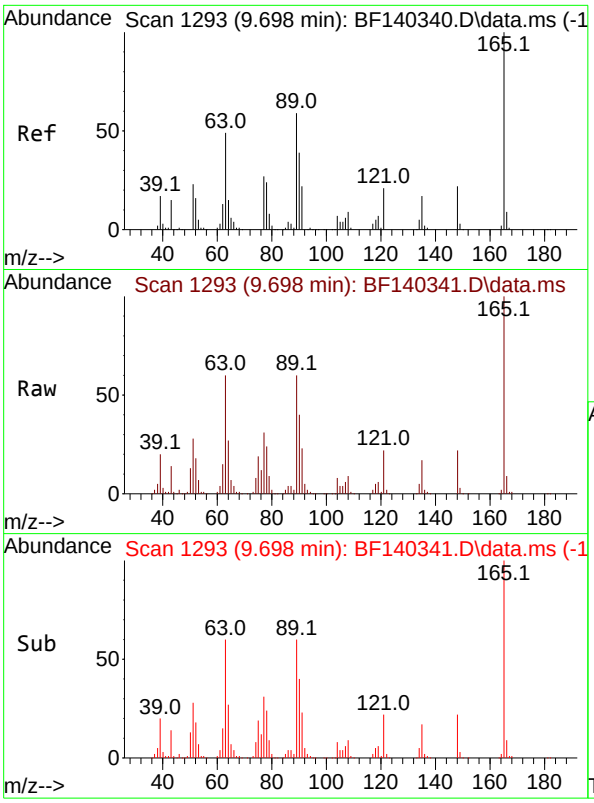


#50
Dimethylphthalate
Concen: 38.933 ng
RT: 9.634 min Scan# 1282
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:163 Resp: 845361

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.6	8.2	12.4



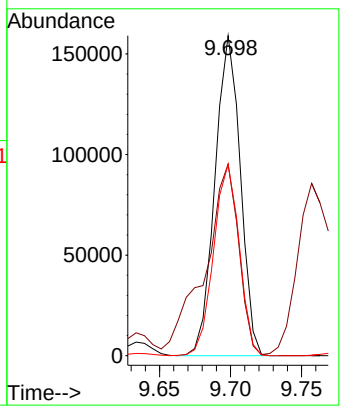


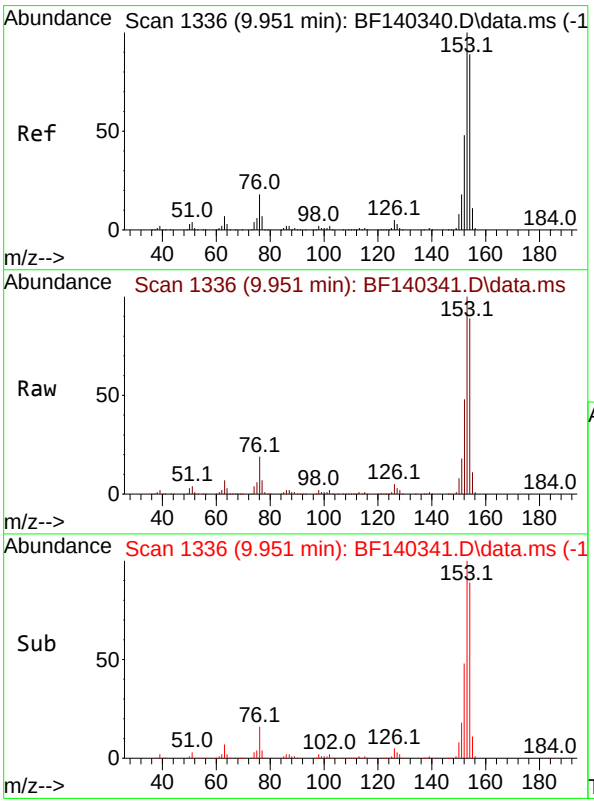
#51
2,6-Dinitrotoluene
Concen: 39.952 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:165 Resp: 197768

Ion	Ratio	Lower	Upper
165	100		
63	59.9	47.6	71.4
89	59.7	48.1	72.1

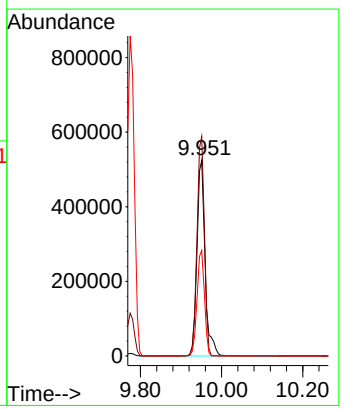


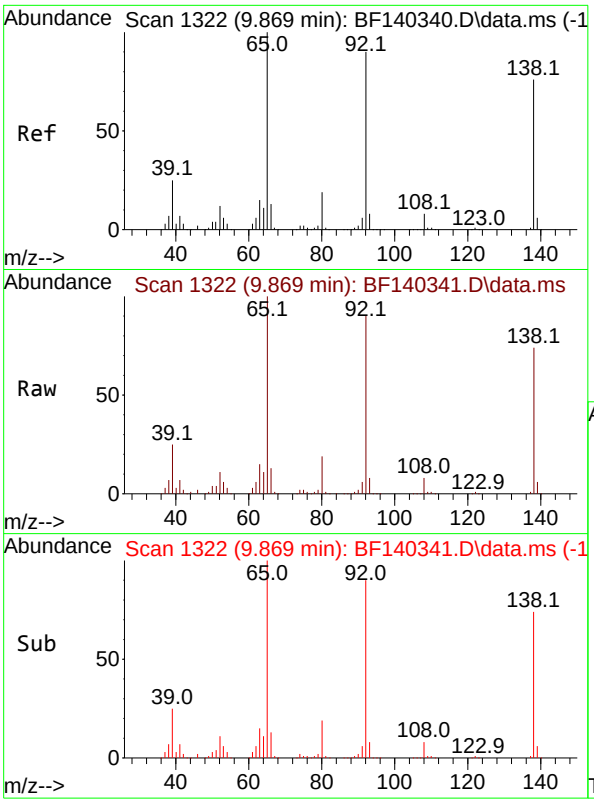


#52
Acenaphthene
Concen: 39.143 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:154 Resp: 738443

Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.8	134.8
152	53.9	42.6	64.0



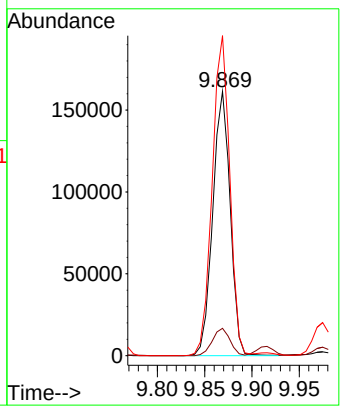


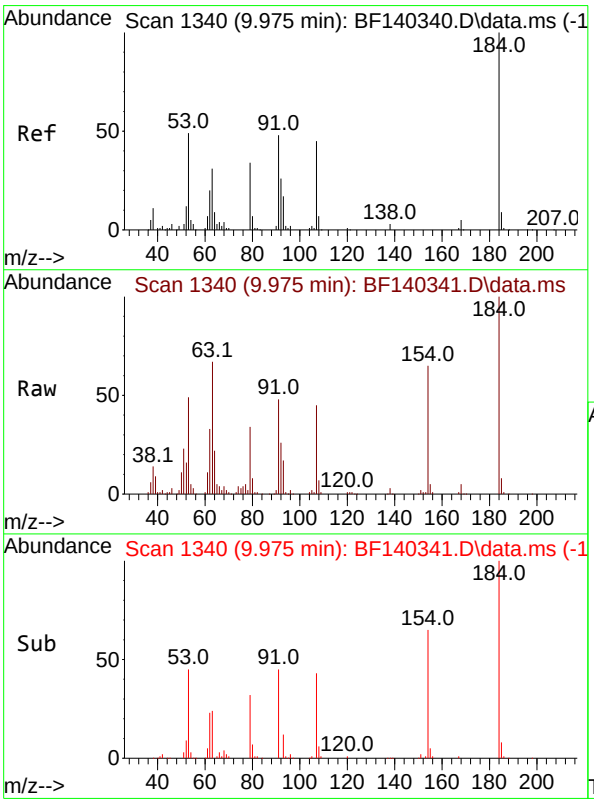
#53
3-Nitroaniline
Concen: 39.809 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:138 Resp: 206946

Ion	Ratio	Lower	Upper
138	100		
108	10.4	8.4	12.6
92	121.1	95.5	143.3

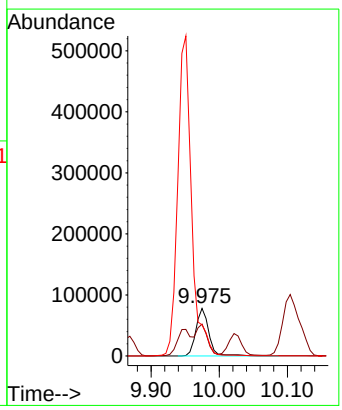


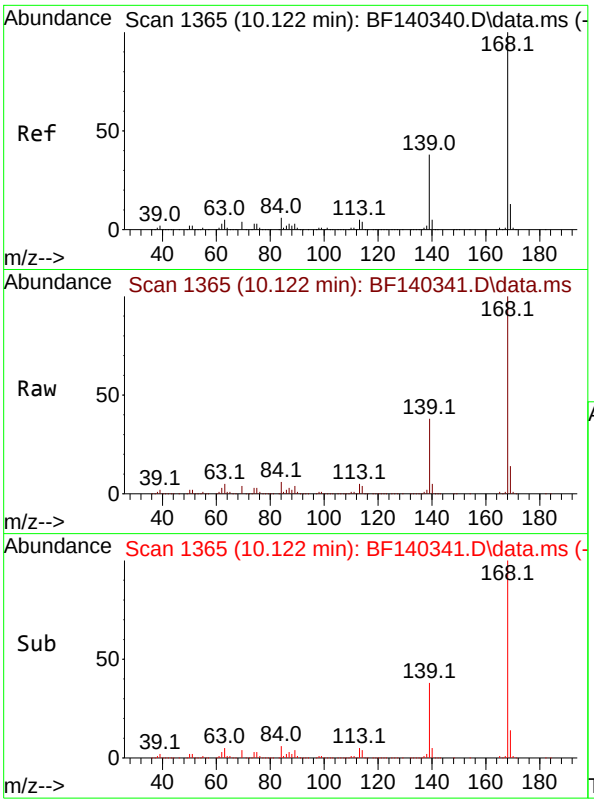


#54
2,4-Dinitrophenol
Concen: 40.153 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:184 Resp: 102497

Ion	Ratio	Lower	Upper
184	100		
63	66.9	53.5	80.3
154	65.2	51.3	76.9



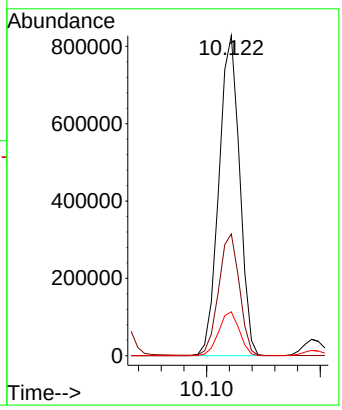


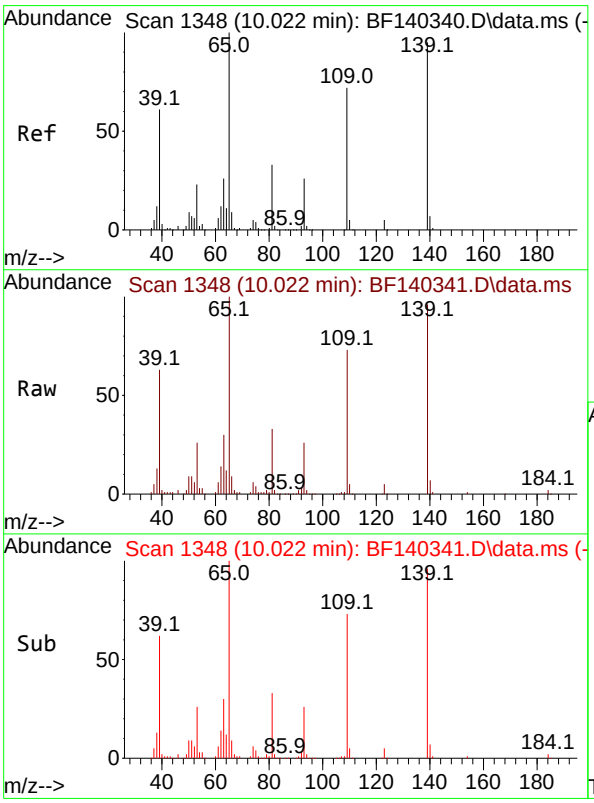
#55
Dibenzofuran
Concen: 39.280 ng
RT: 10.122 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:168 Resp: 1049030

Ion	Ratio	Lower	Upper
168	100		
139	38.0	30.8	46.2
169	13.7	10.8	16.2

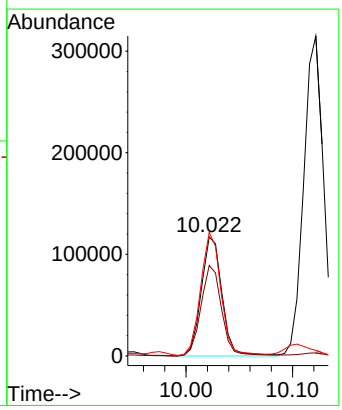


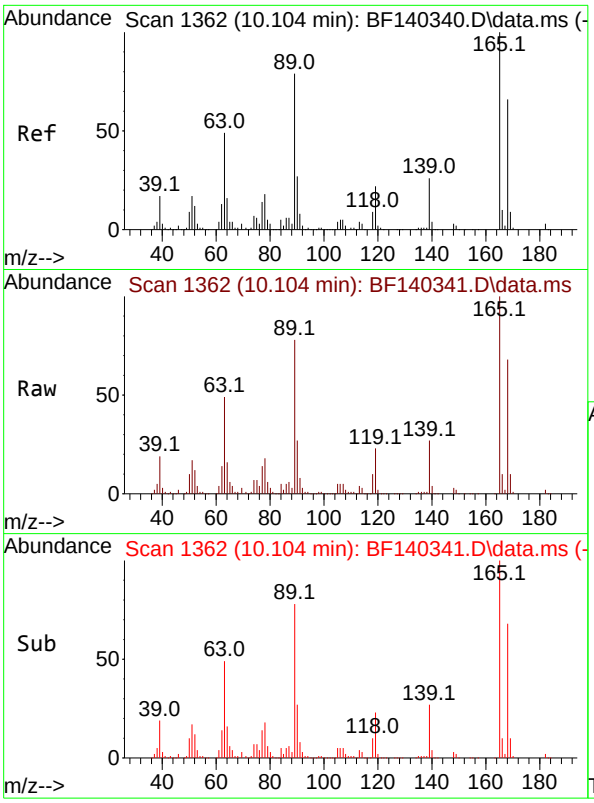


#56
4-Nitrophenol
Concen: 41.782 ng
RT: 10.022 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:139 Resp: 158431

Ion	Ratio	Lower	Upper
139	100		
109	76.1	54.5	94.5
65	103.9	84.4	124.4



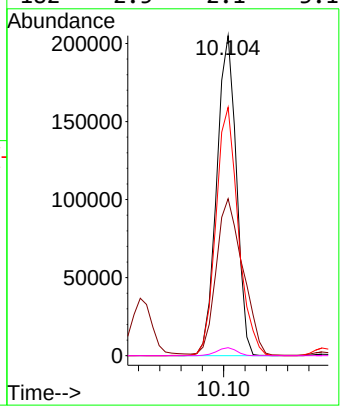


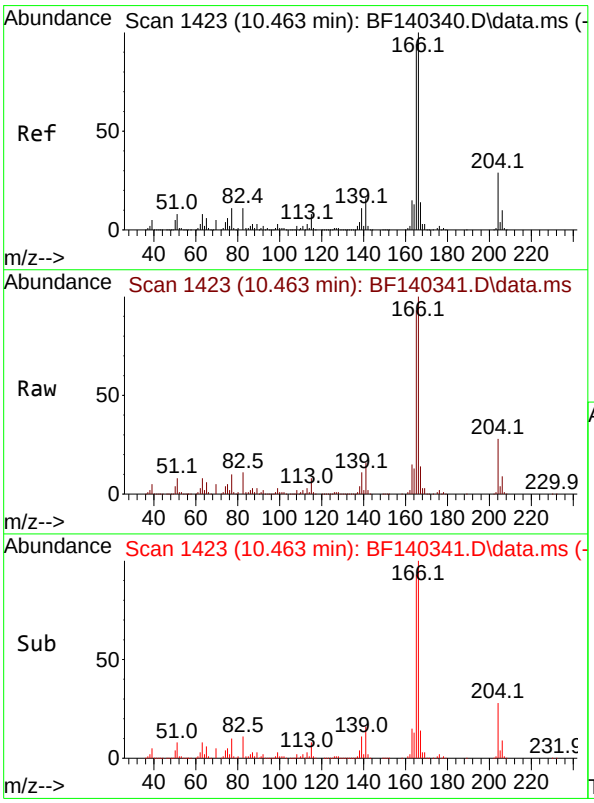
#57
2,4-Dinitrotoluene
Concen: 40.258 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:165 Resp: 262271

Ion	Ratio	Lower	Upper
165	100		
63	49.1	39.4	59.0
89	77.6	62.4	93.6
182	2.5	2.1	3.1

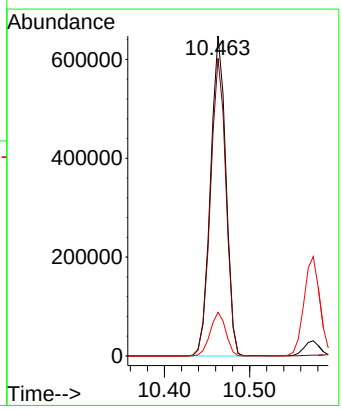


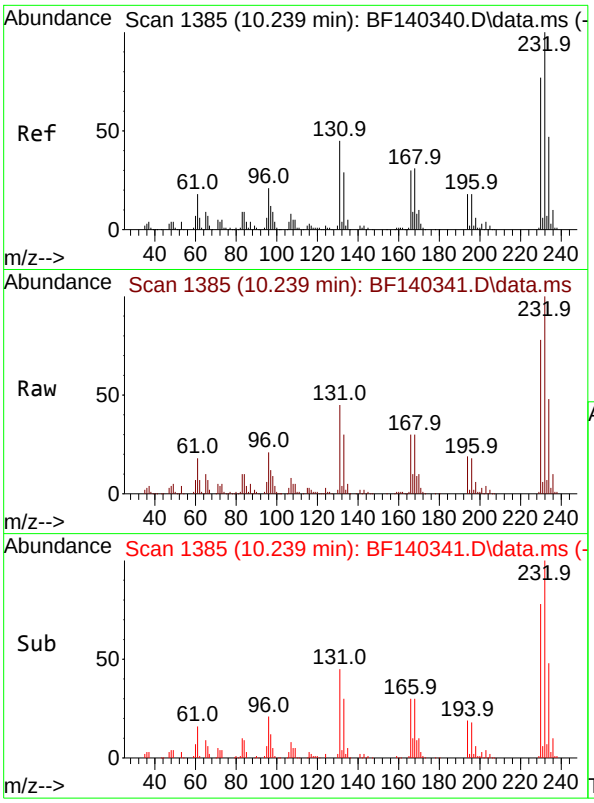


#58
Fluorene
Concen: 38.457 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:166 Resp: 811348

Ion	Ratio	Lower	Upper
166	100		
165	93.0	73.9	110.9
167	13.6	10.9	16.3



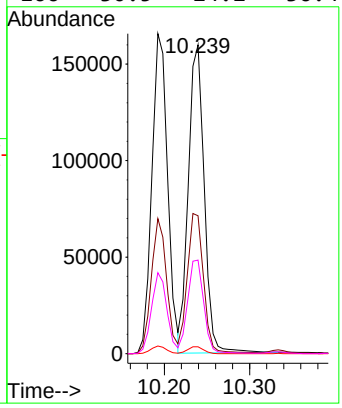


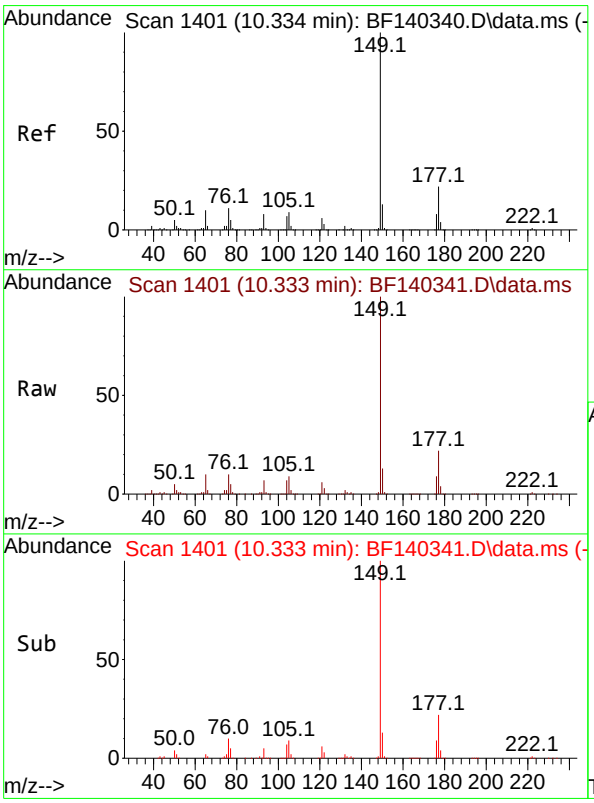
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.601 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:232 Resp: 206672

Ion	Ratio	Lower	Upper
232	100		
131	46.5	36.8	55.2
130	2.3	1.9	2.9
166	30.5	24.2	36.4

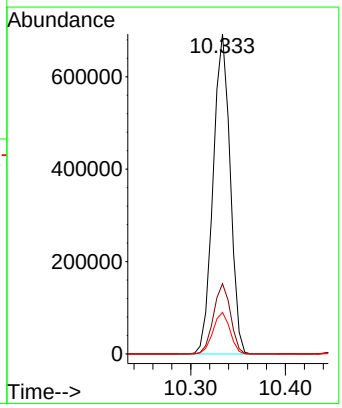


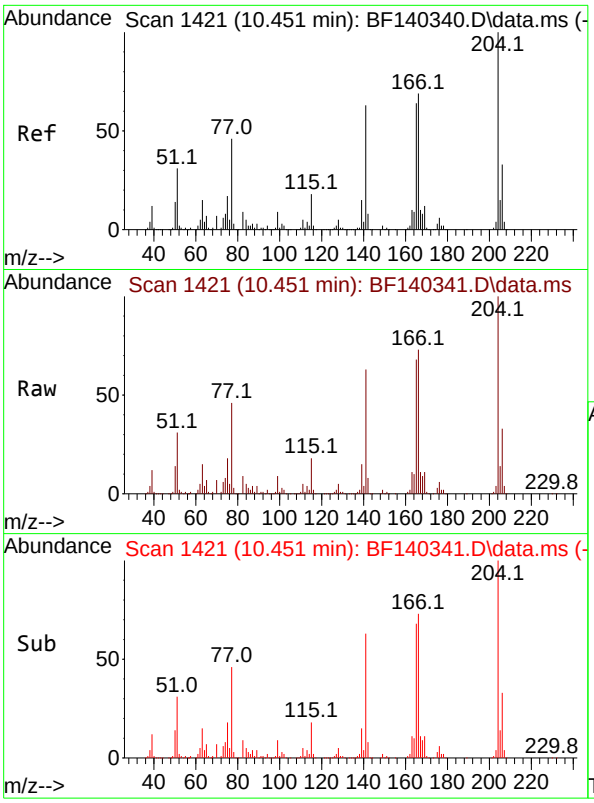


#60
Diethylphthalate
Concen: 38.945 ng
RT: 10.333 min Scan# 1401
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:149 Resp: 864678

Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.5	26.3
150	13.0	10.1	15.1



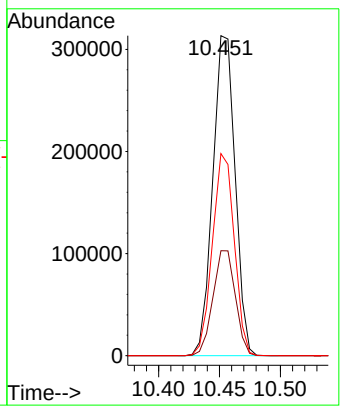


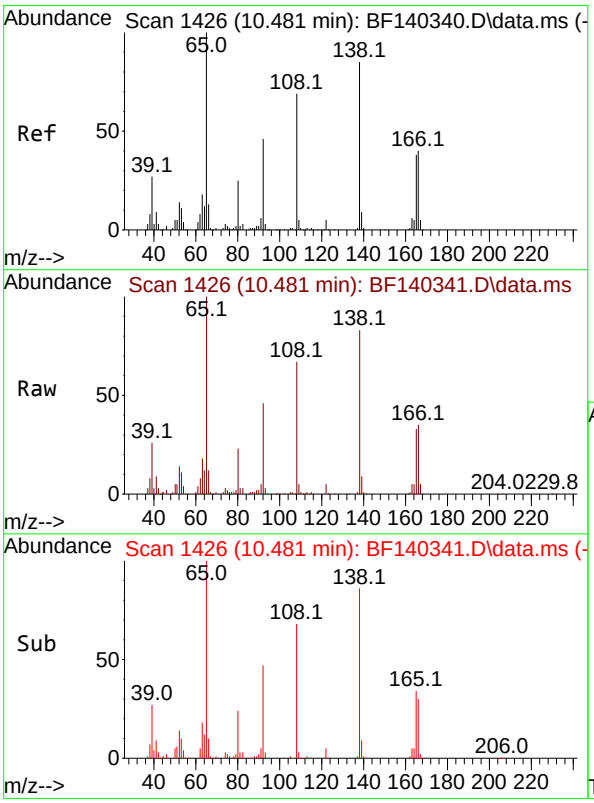
#61
4-Chlorophenyl-phenylether
Concen: 38.465 ng
RT: 10.451 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:204 Resp: 400645

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.0	39.0
141	63.2	49.8	74.8

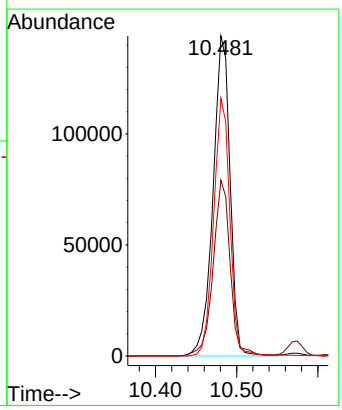


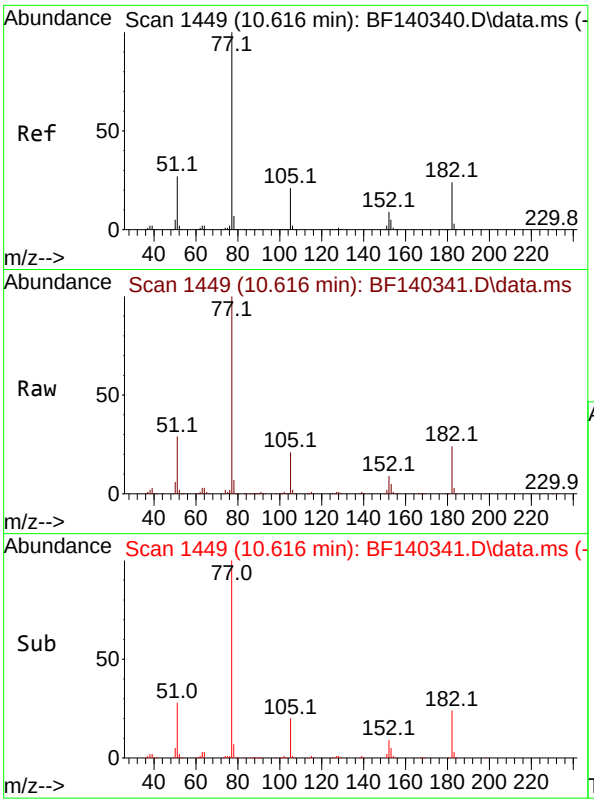


#62
4-Nitroaniline
Concen: 39.561 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:138 Resp: 210281

Ion	Ratio	Lower	Upper
138	100		
92	54.9	33.8	73.8
108	80.5	59.9	99.9



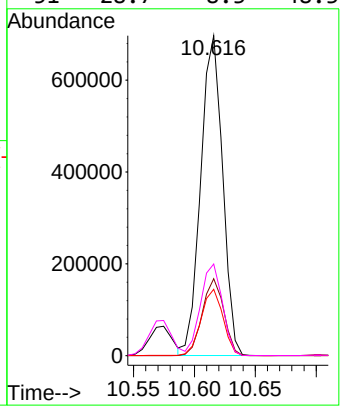


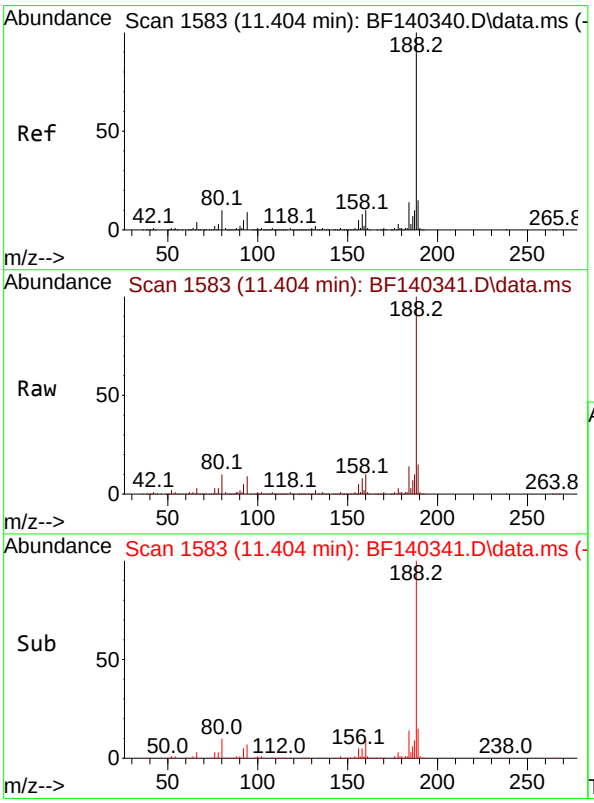
#63
Azobenzene
Concen: 39.649 ng
RT: 10.616 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion: 77 Resp: 869821

Ion	Ratio	Lower	Upper
77	100		
182	24.0	4.6	44.6
105	20.8	0.9	40.9
51	28.7	8.3	48.3

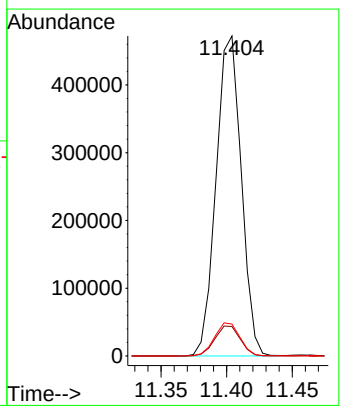


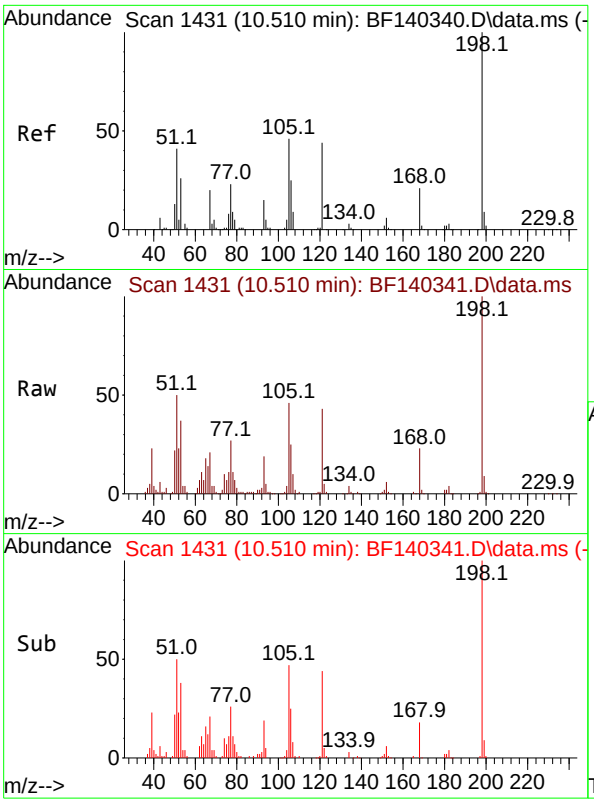


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:188 Resp: 631059

Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.6	11.4
80	10.0	8.0	12.0



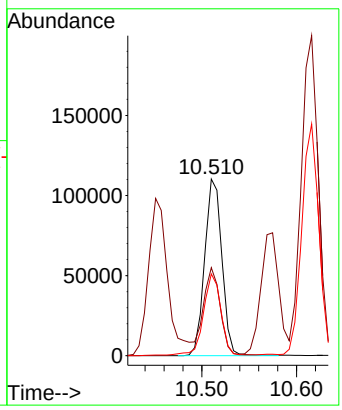


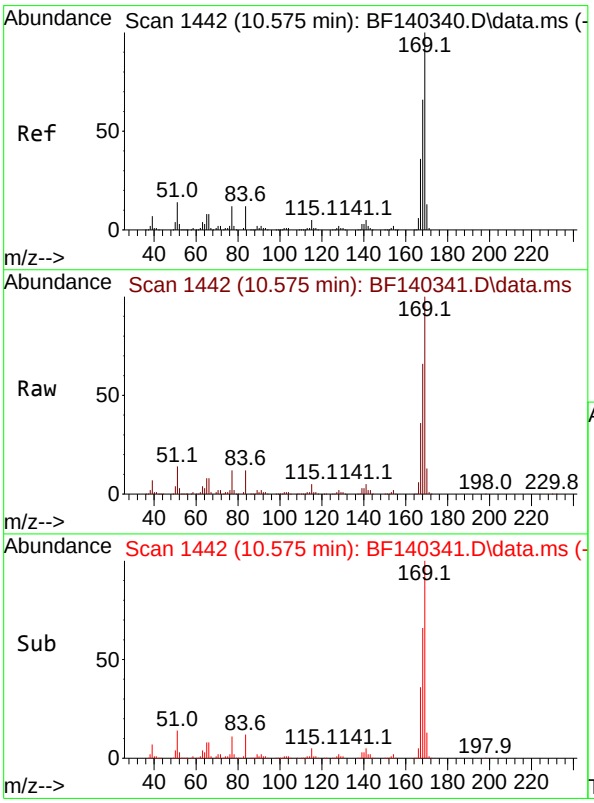
#65
4,6-Dinitro-2-methylphenol
Concen: 41.144 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:198 Resp: 139694

Ion	Ratio	Lower	Upper
198	100		
51	49.8	29.7	69.7
105	46.3	26.3	66.3

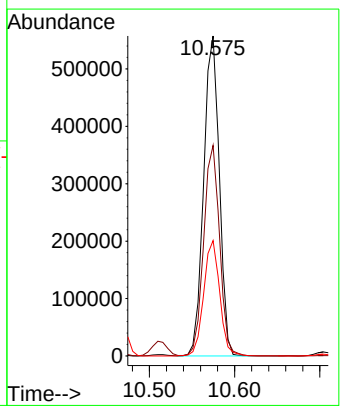


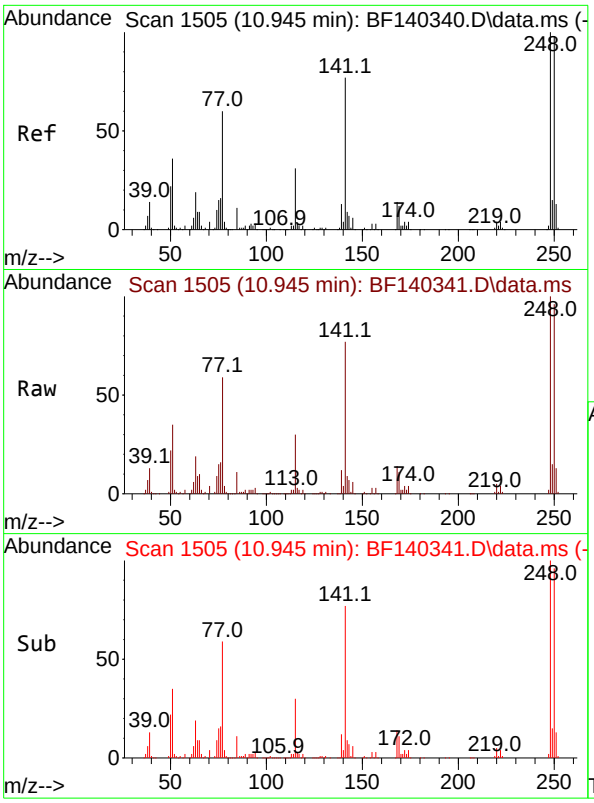


#66
n-Nitrosodiphenylamine
Concen: 38.926 ng
RT: 10.575 min Scan# 1442
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:169 Resp: 709758

Ion	Ratio	Lower	Upper
169	100		
168	65.8	52.7	79.1
167	36.1	29.3	43.9



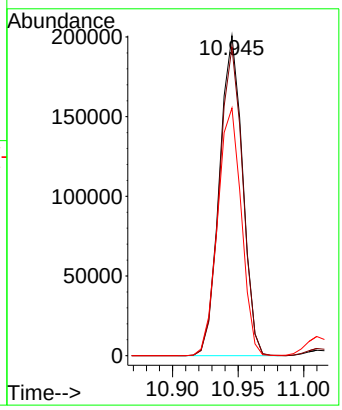


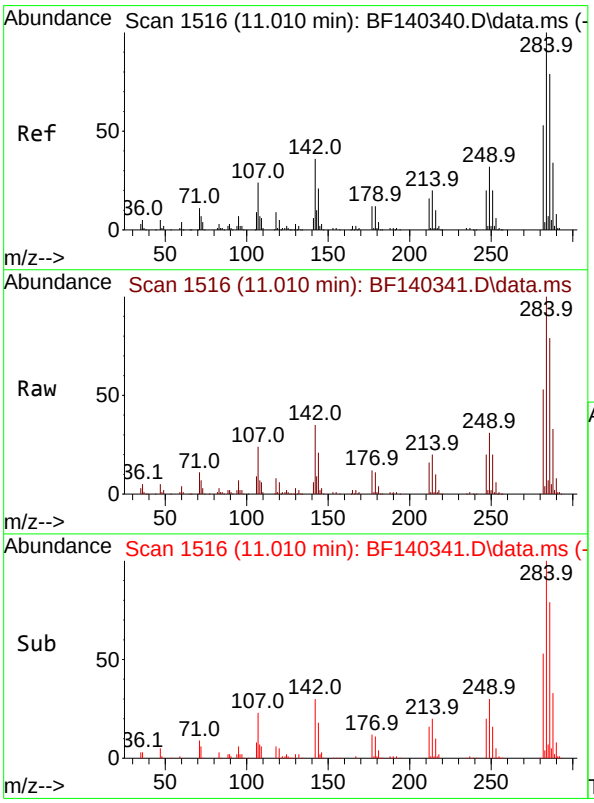
#67
4-Bromophenyl-phenylether
Concen: 39.059 ng
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:248 Resp: 246390

Ion	Ratio	Lower	Upper
248	100		
250	96.5	77.9	116.9
141	77.4	61.8	92.6

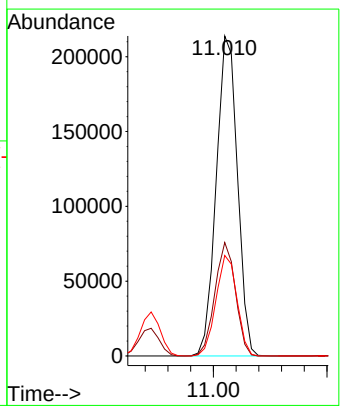


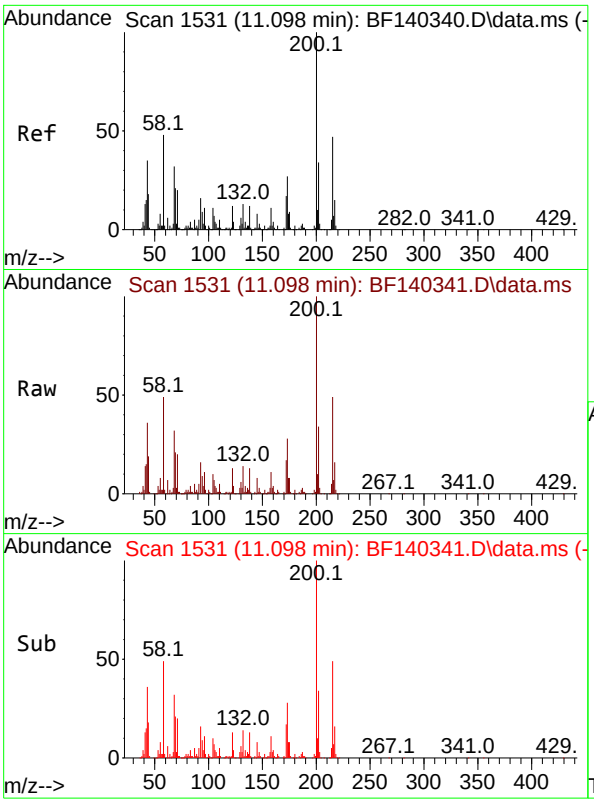


#68
Hexachlorobenzene
Concen: 39.043 ng
RT: 11.010 min Scan# 1516
Delta R.T. 0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:284 Resp: 277113

Ion	Ratio	Lower	Upper
284	100		
142	35.5	28.1	42.1
249	31.4	24.9	37.3



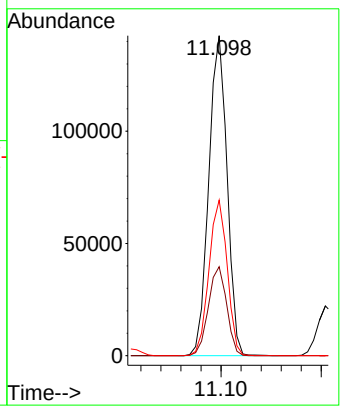


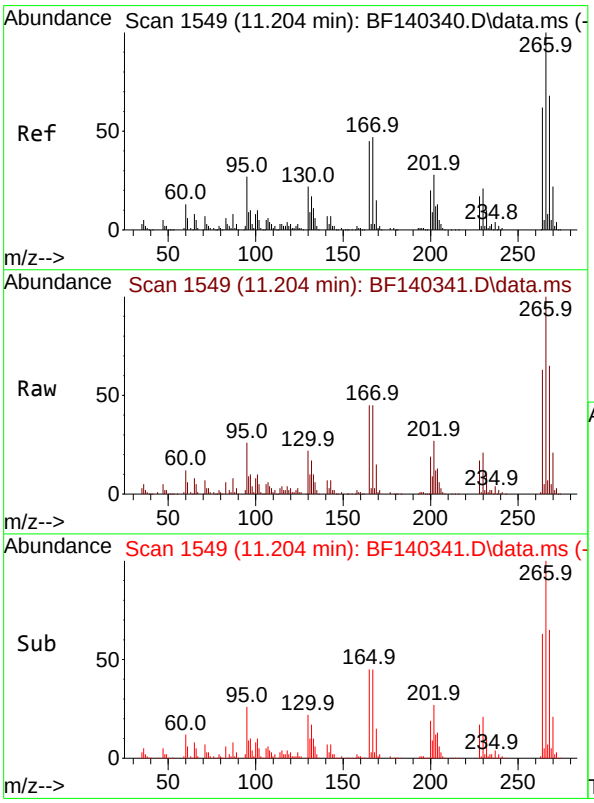
#69
Atrazine
Concen: 32.640 ng
RT: 11.098 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:200 Resp: 180055

Ion	Ratio	Lower	Upper
200	100		
173	27.8	6.6	46.6
215	48.6	27.2	67.2

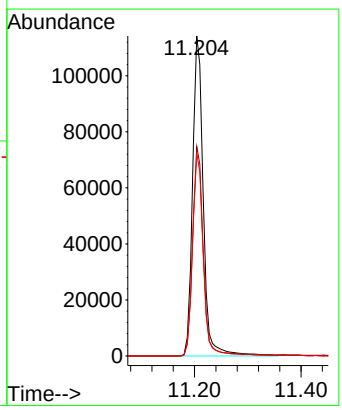


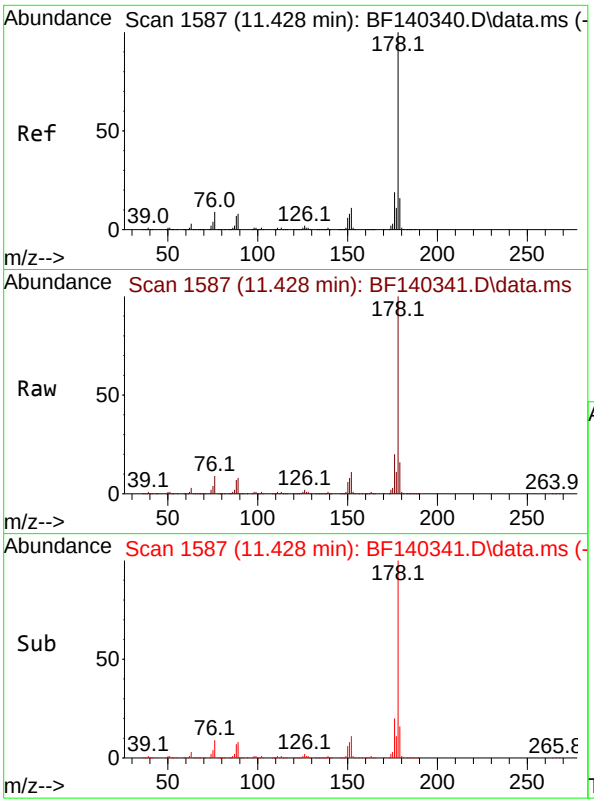


#70
Pentachlorophenol
Concen: 41.693 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:266 Resp: 159402

Ion	Ratio	Lower	Upper
266	100		
268	65.4	52.9	79.3
264	63.3	50.3	75.5



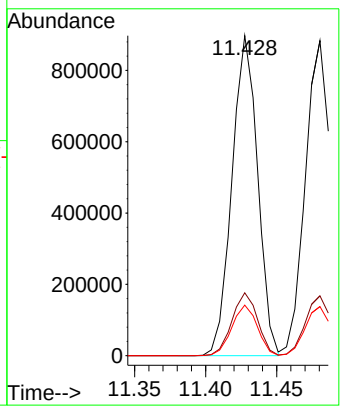


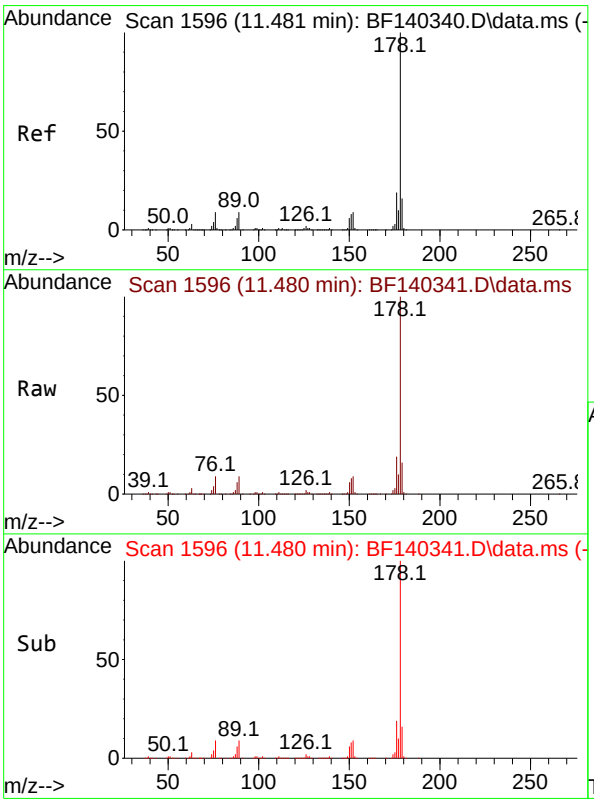
#71
Phenanthrene
Concen: 38.024 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:178 Resp: 1127194

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.5	23.3
179	15.8	12.4	18.6

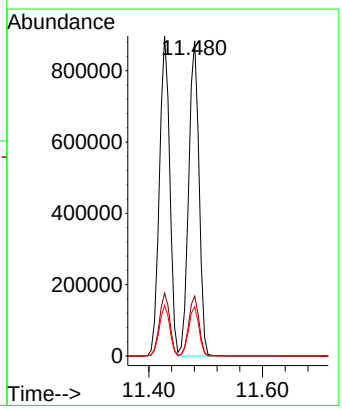


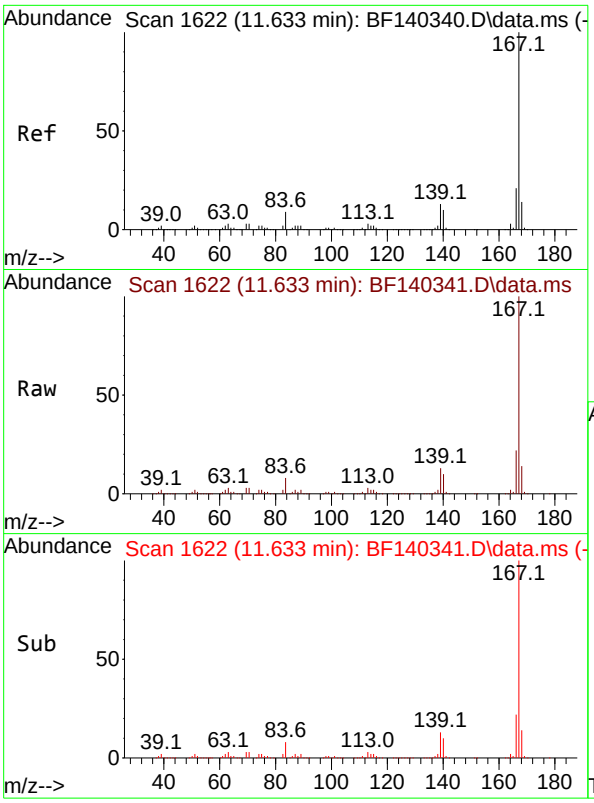


#72
Anthracene
Concen: 38.362 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:178 Resp: 1114551

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.6	12.6	18.8



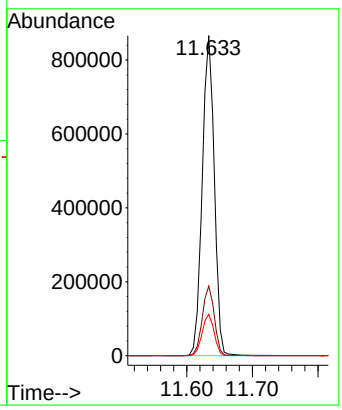


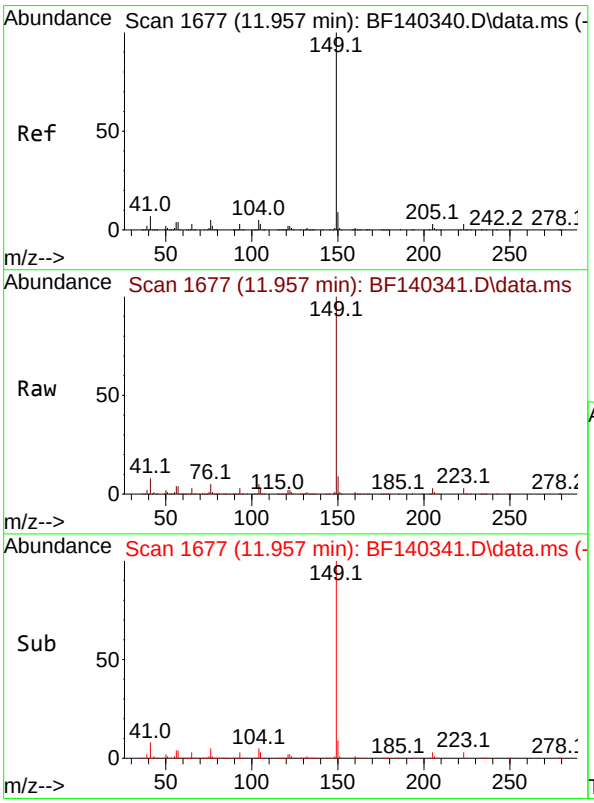
#73
Carbazole
Concen: 38.676 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:167 Resp: 1109519

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.2	25.8
139	12.9	10.4	15.6

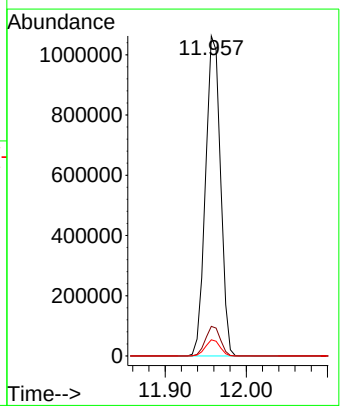


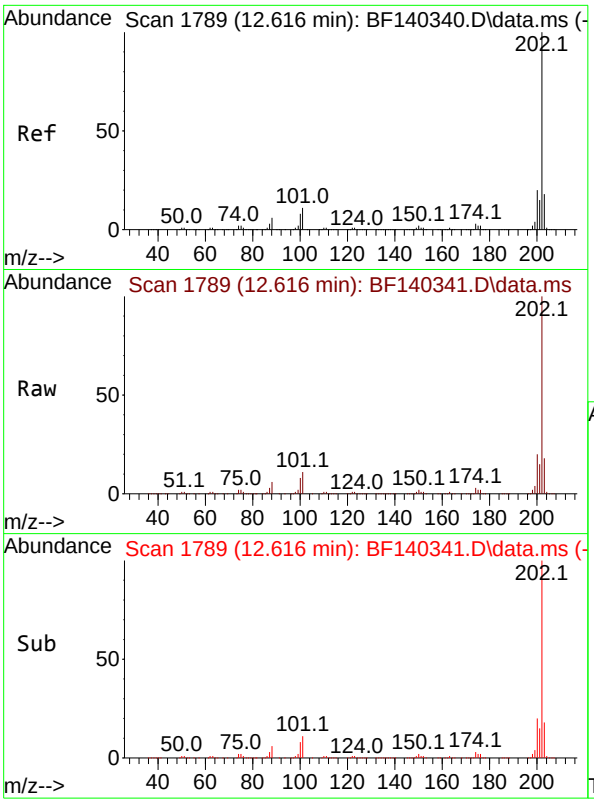


#74
Di-n-butylphthalate
Concen: 39.391 ng
RT: 11.957 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:149 Resp: 1356287

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.0	4.0	6.0



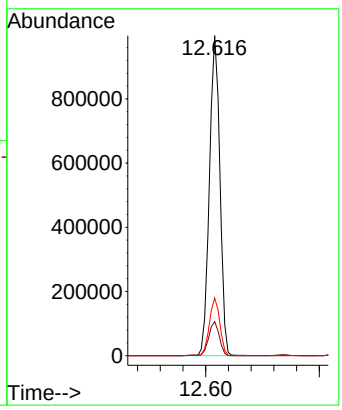


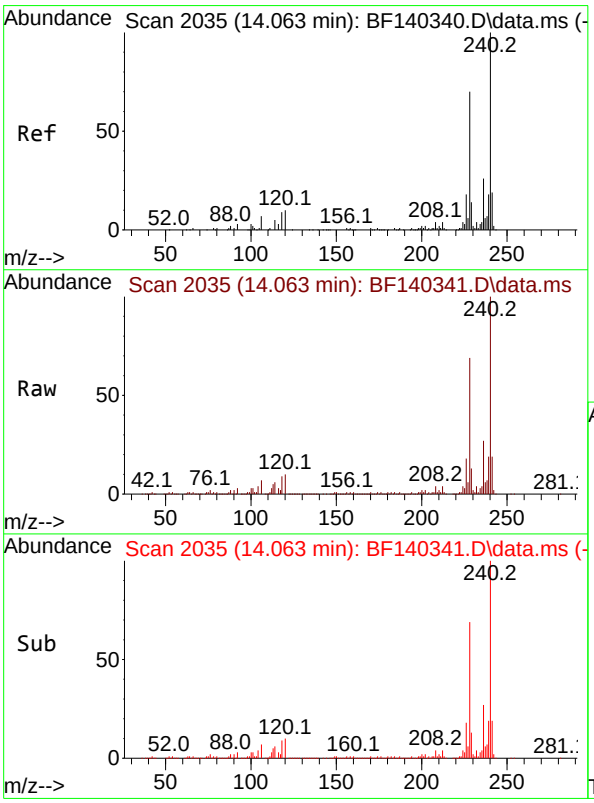
#75
Fluoranthene
Concen: 38.196 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:202 Resp: 1270353

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	30.7
203	18.0	0.0	37.7

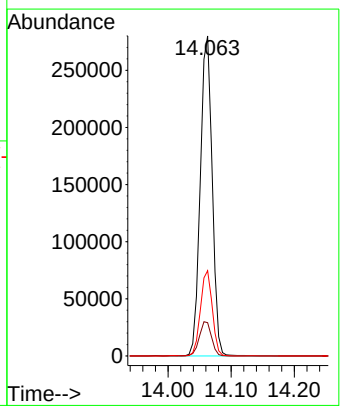


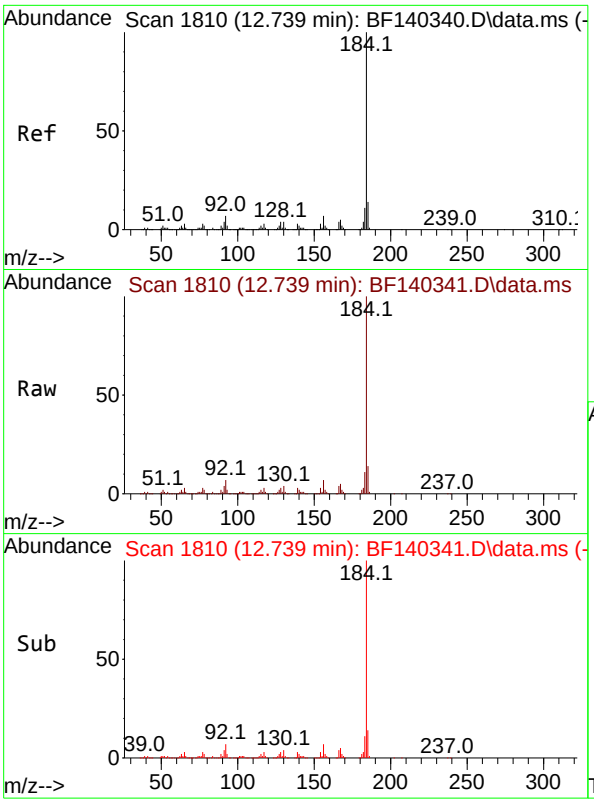


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2035
Delta R.T. 0.012 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:240 Resp: 366437

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.8	13.2
236	26.7	20.9	31.3



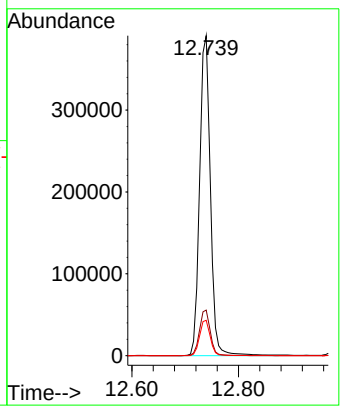


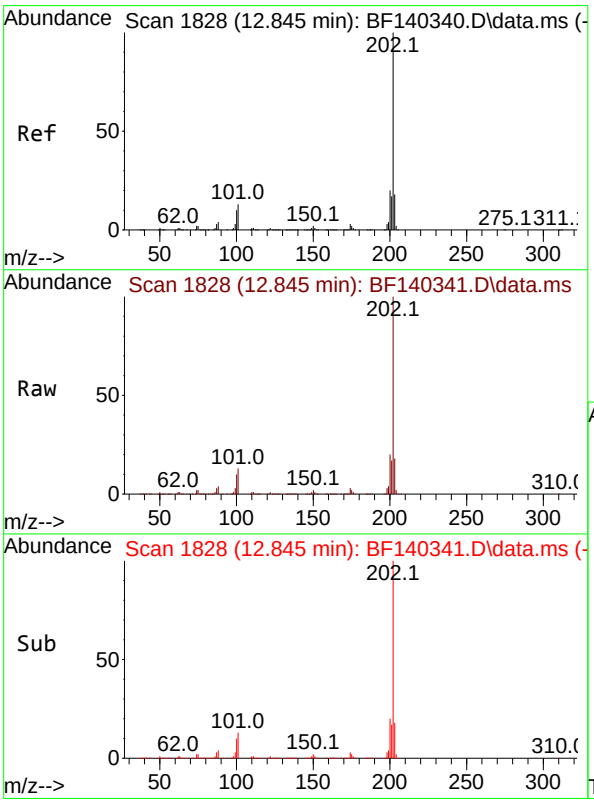
#77
Benzidine
Concen: 38.866 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:184 Resp: 546613

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.9	17.9
183	11.0	8.6	13.0

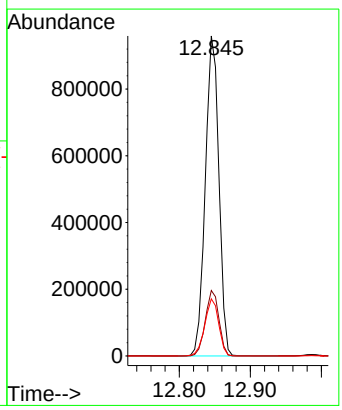


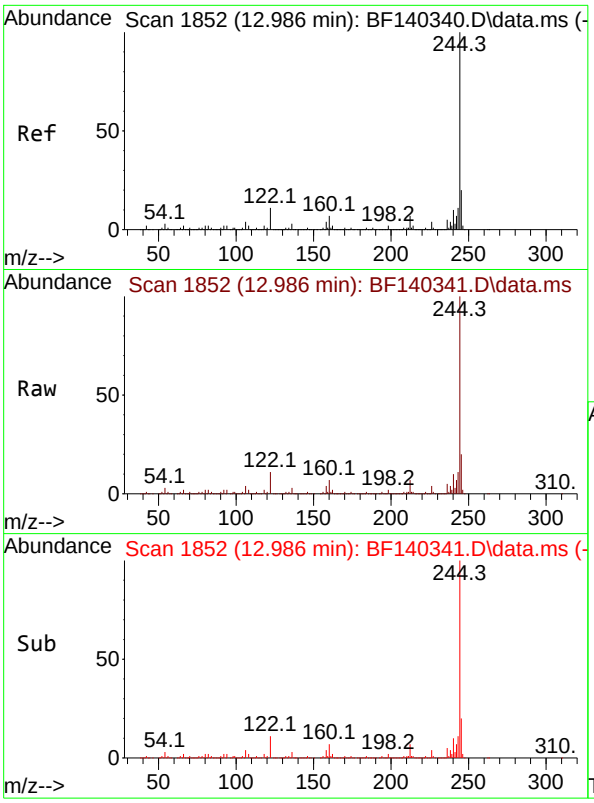


#78
Pyrene
Concen: 40.667 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:202 Resp: 1274659

Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.2	24.2
203	17.8	14.2	21.4



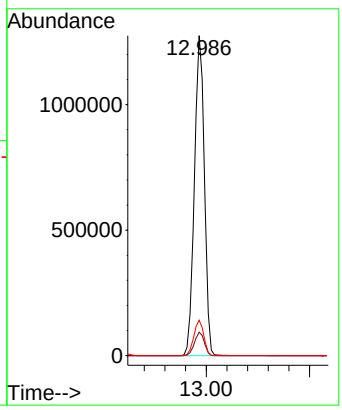


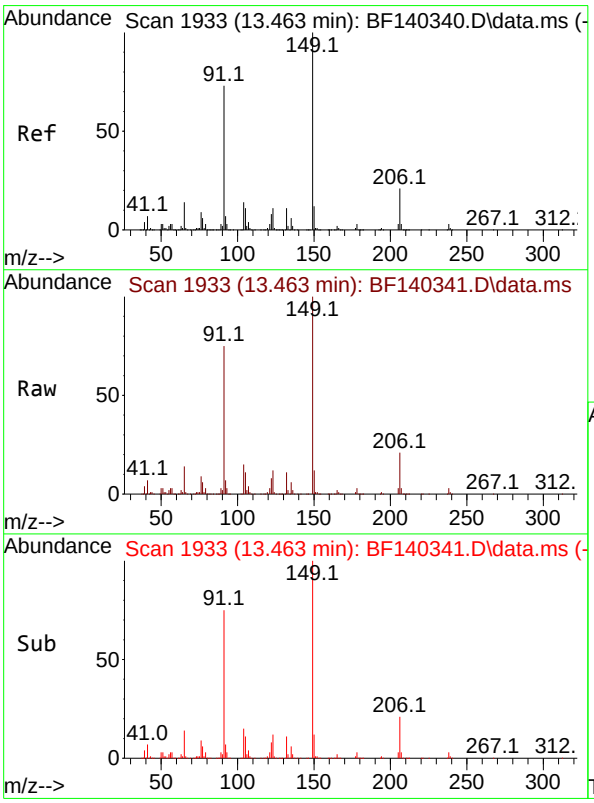
#79
Terphenyl-d14
Concen: 80.797 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:244 Resp: 1705668

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	11.1	8.8	13.2

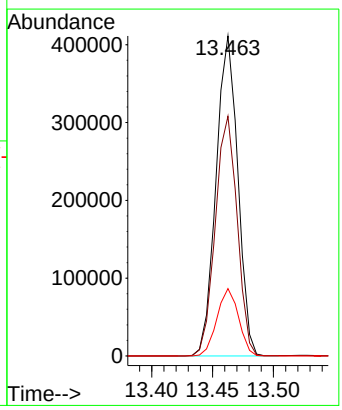


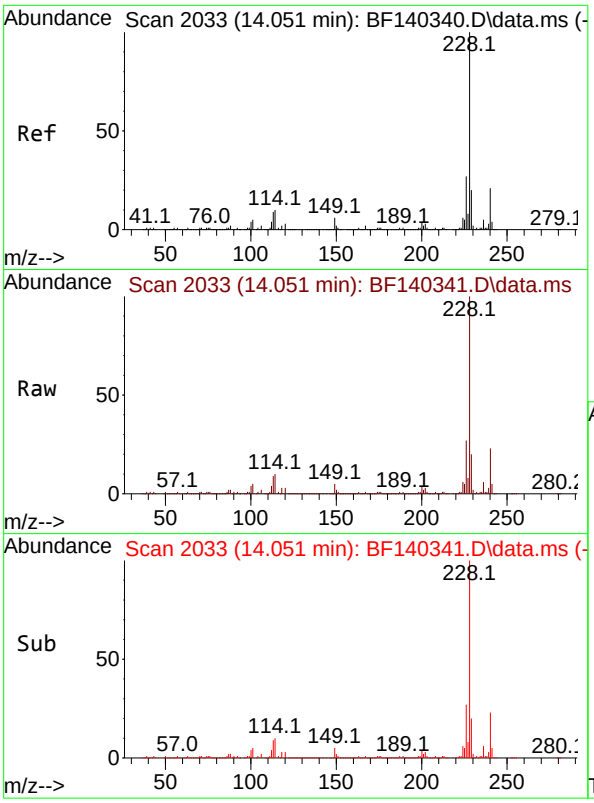


#80
Butylbenzylphthalate
Concen: 42.560 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.006 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:149 Resp: 512452

Ion	Ratio	Lower	Upper
149	100		
91	74.9	61.0	91.4
206	21.0	16.1	24.1



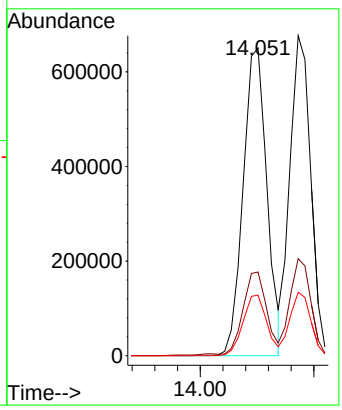


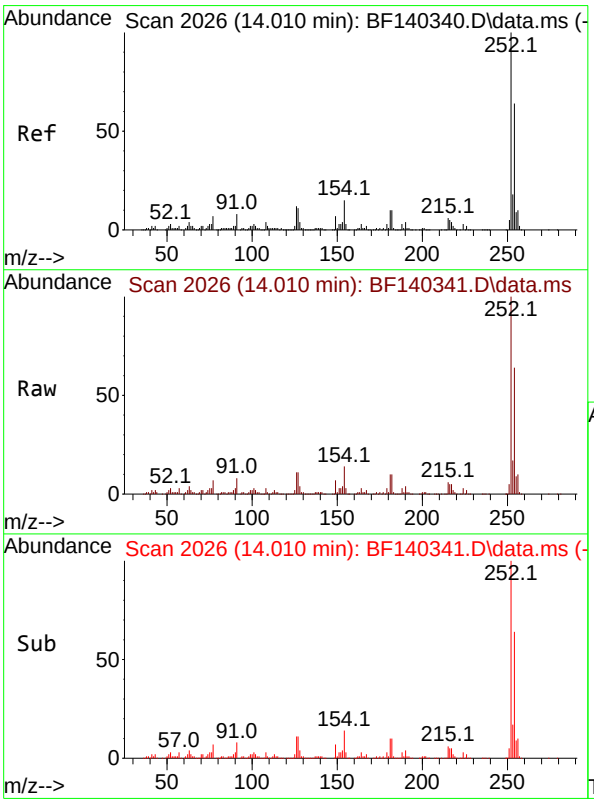
#81
Benzo(a)anthracene
Concen: 39.327 ng
RT: 14.051 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:228 Resp: 947117

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.2	33.4
229	19.7	15.8	23.6

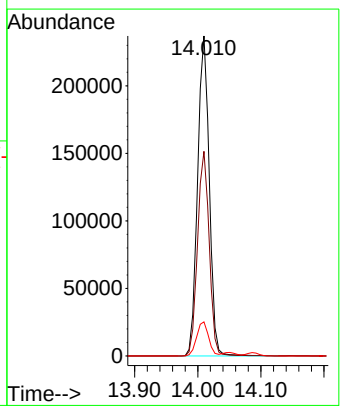


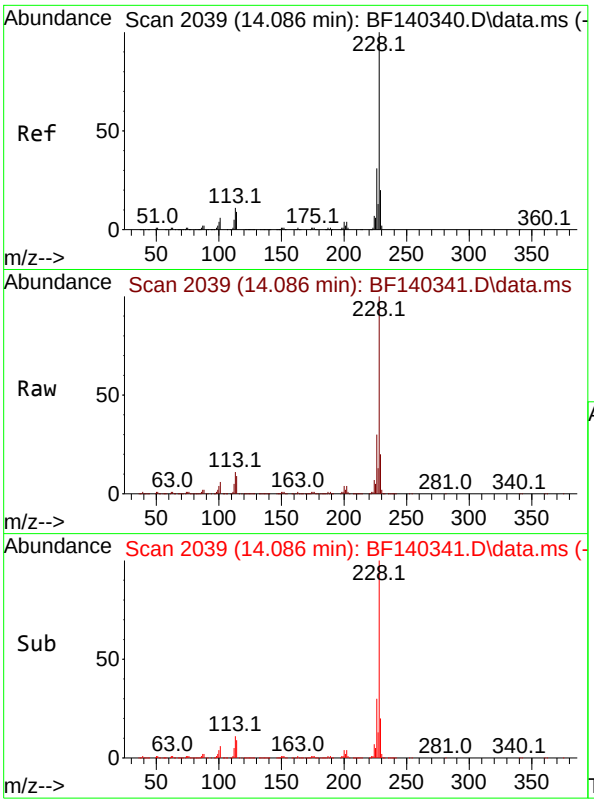


#82
3,3'-Dichlorobenzidine
Concen: 39.793 ng
RT: 14.010 min Scan# 2026
Delta R.T. 0.012 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:252 Resp: 304604

Ion	Ratio	Lower	Upper
252	100		
254	63.9	51.4	77.2
126	10.6	9.4	14.0



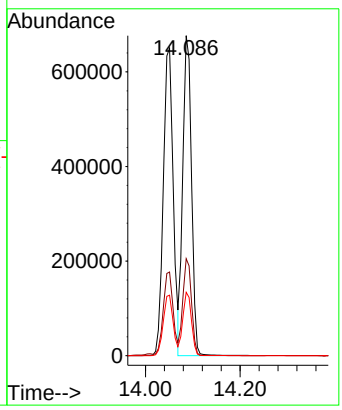


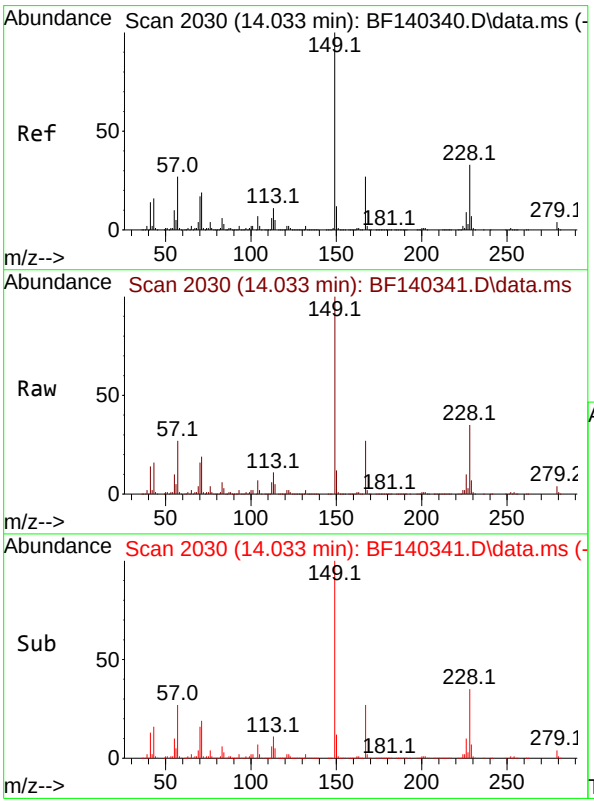
#83
Chrysene
Concen: 39.569 ng
RT: 14.086 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:228 Resp: 869491

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.5	36.7
229	19.8	16.0	24.0

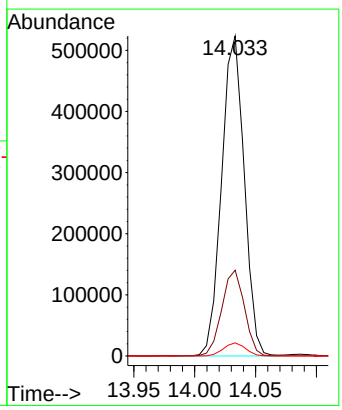


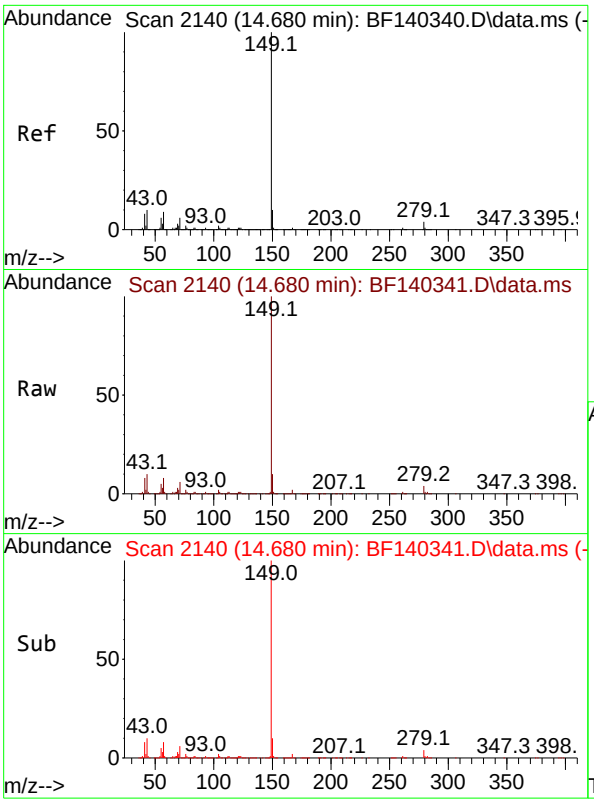


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.213 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.012 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:149 Resp: 678437

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.4	32.0
279	4.1	3.0	4.6



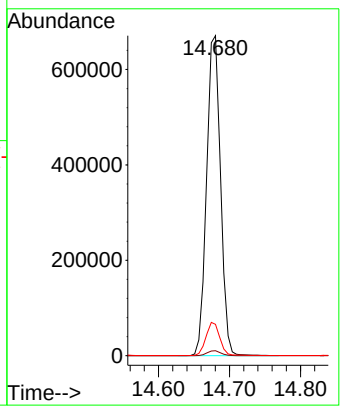


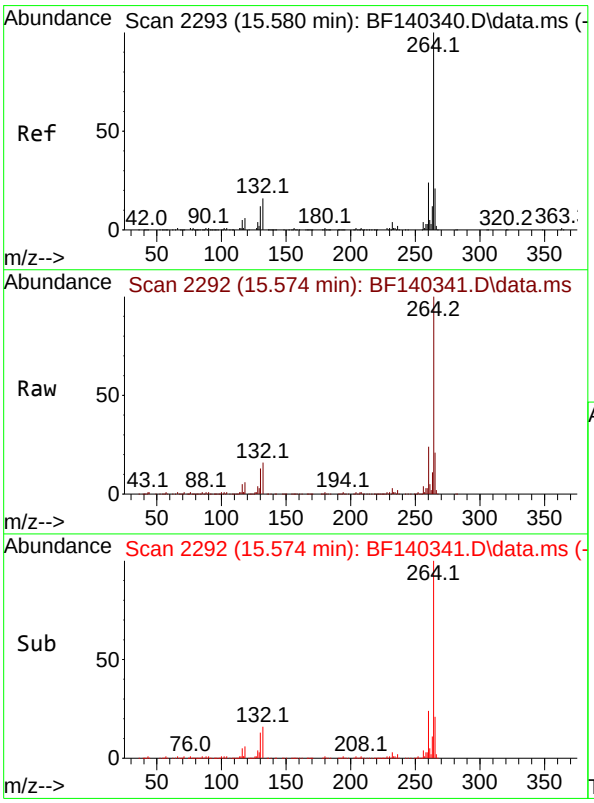
#85
Di-n-octyl phthalate
Concen: 40.448 ng
RT: 14.680 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:149 Resp: 915547

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.3	8.0	12.0

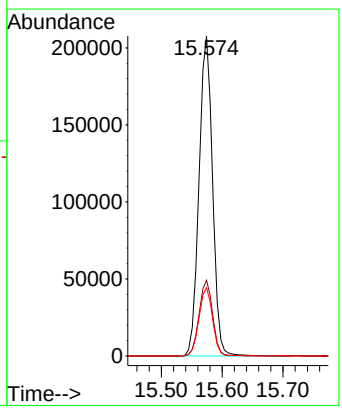


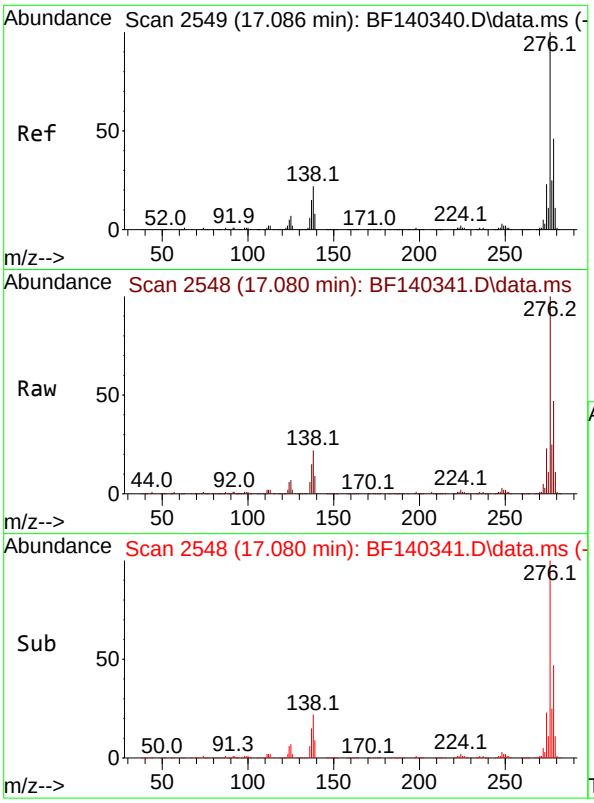


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2292
Delta R.T. 0.018 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:264 Resp: 319261

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	21.3	17.1	25.7



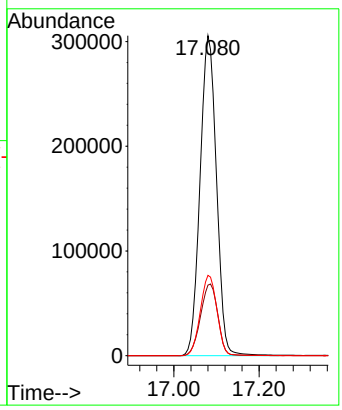


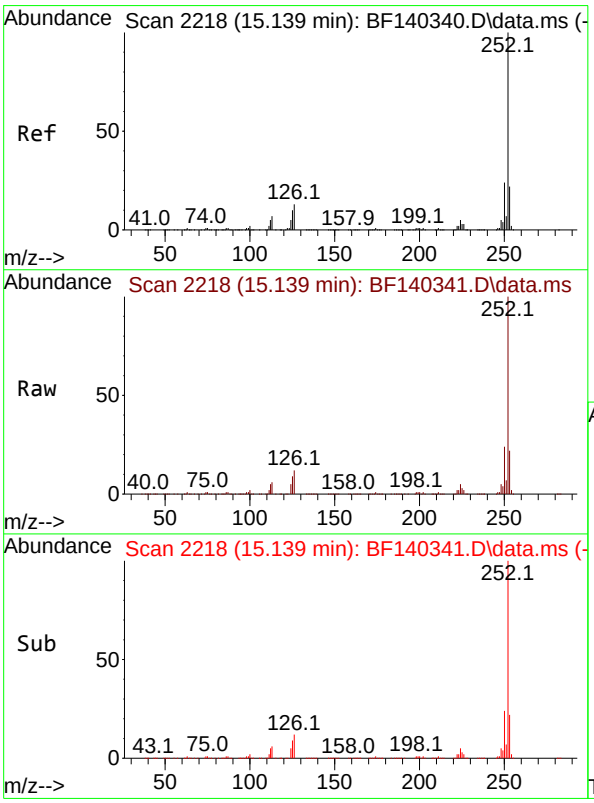
#87
Indeno(1,2,3-cd)pyrene
Concen: 41.371 ng
RT: 17.080 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:276 Resp: 815903

Ion	Ratio	Lower	Upper
276	100		
138	23.6	18.8	28.2
277	25.5	20.2	30.2

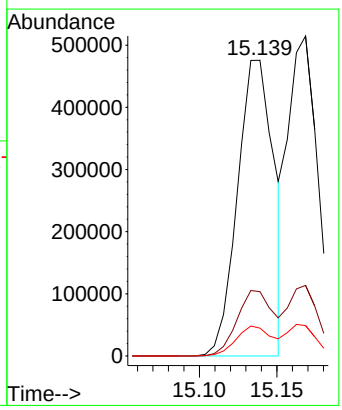


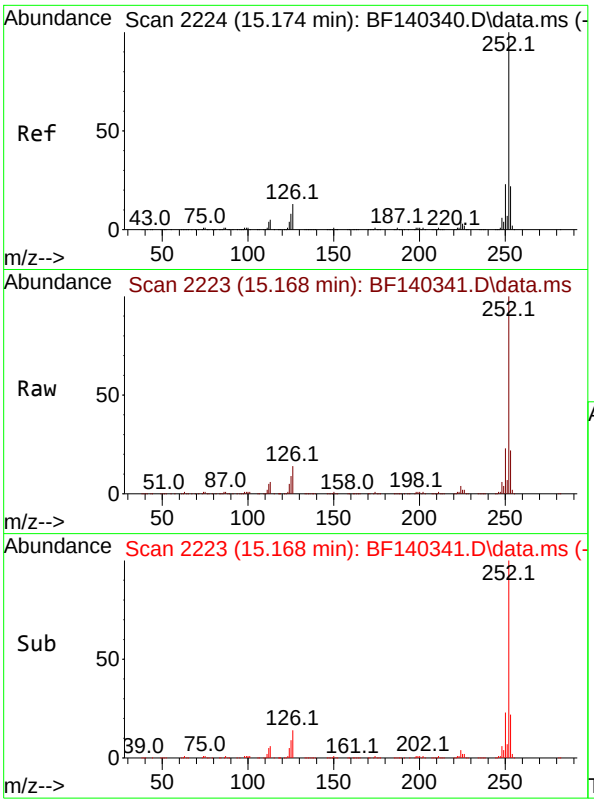


#88
Benzo(b)fluoranthene
Concen: 37.153 ng
RT: 15.139 min Scan# 2218
Delta R.T. 0.024 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:252 Resp: 775920

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	9.4	8.0	12.0



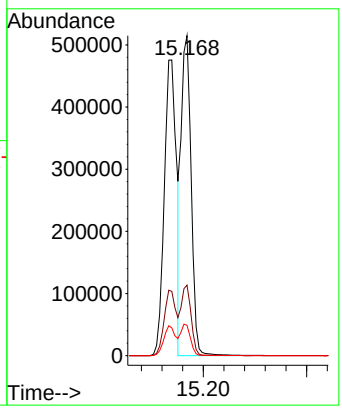


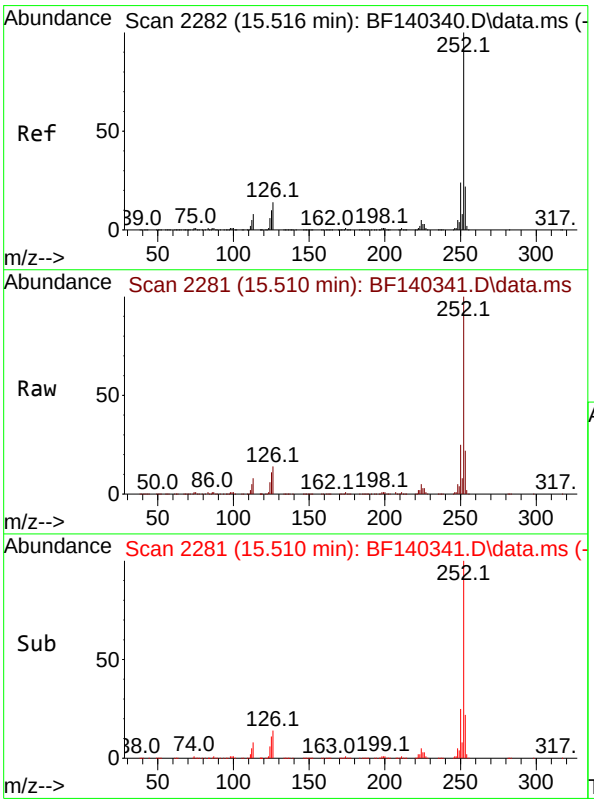
#89
Benzo(k)fluoranthene
Concen: 40.625 ng
RT: 15.168 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:252 Resp: 693105

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.3	25.9
125	9.5	7.4	11.2

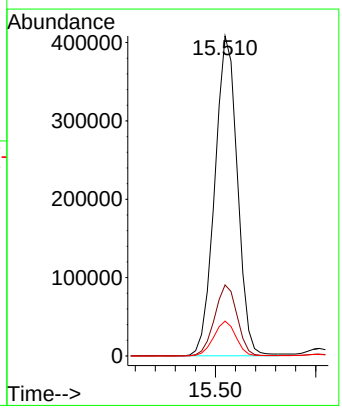


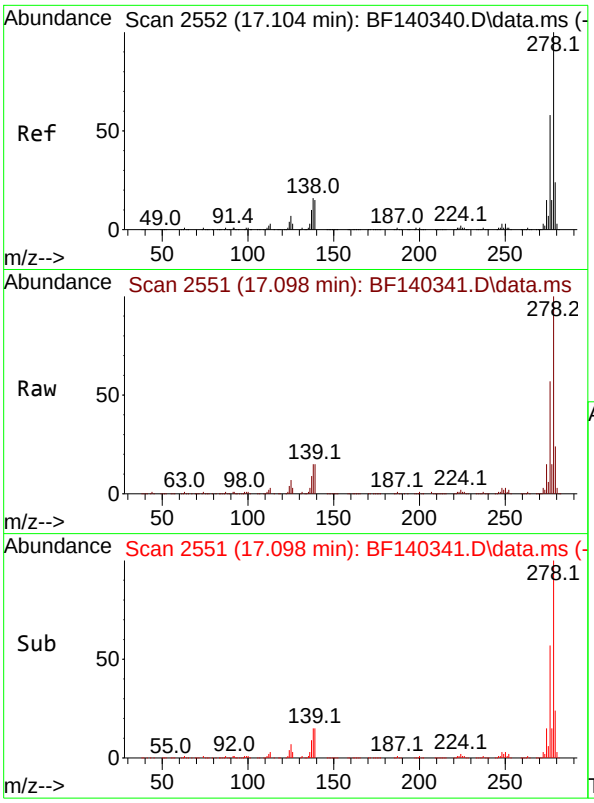


#90
Benzo(a)pyrene
Concen: 39.337 ng
RT: 15.510 min Scan# 2281
Delta R.T. 0.018 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:252 Resp: 637970

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	10.9	8.4	12.6



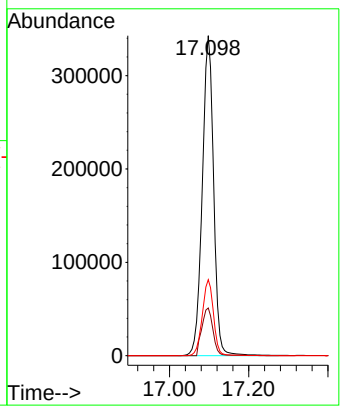


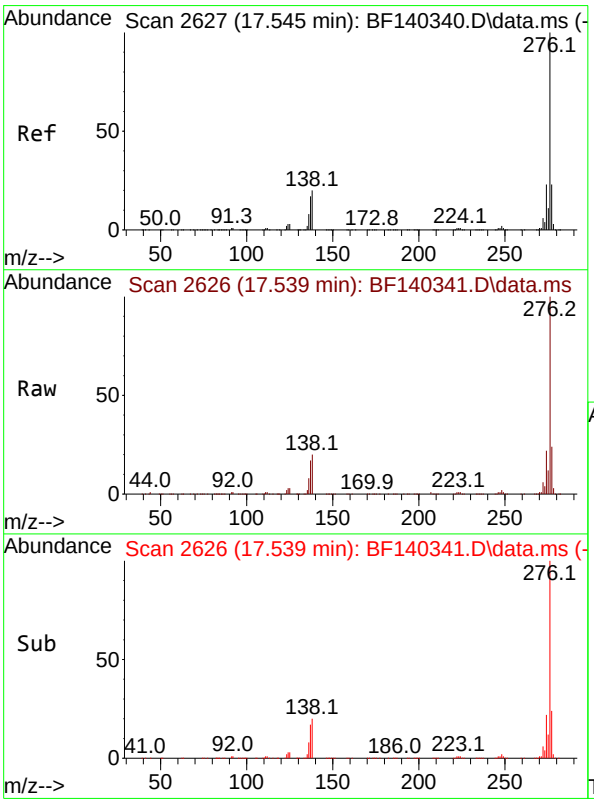
#91
Dibenzo(a,h)anthracene
Concen: 41.871 ng
RT: 17.098 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Tgt Ion:278 Resp: 682579

Ion	Ratio	Lower	Upper
278	100		
139	14.9	11.8	17.8
279	23.7	18.9	28.3

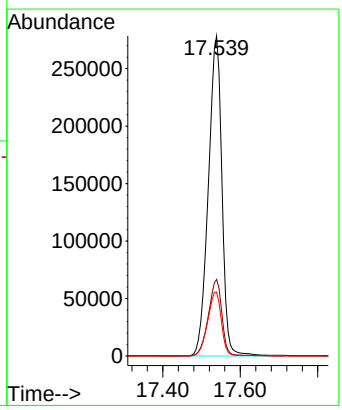




#92
Benzo(g,h,i)perylene
Concen: 40.635 ng
RT: 17.539 min Scan# 2626
Delta R.T. 0.024 min
Lab File: BF140341.D
Acq: 13 Nov 2024 13:19

Tgt Ion:276 Resp: 677222

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.6	28.0
138	19.9	16.0	24.0



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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	102	0.00
2		1,4-Dioxane	0.522	0.517	1.0	102	0.00
3		Pyridine	1.283	1.305	-1.7	101	0.00
4		n-Nitrosodimethylamine	0.649	0.647	0.3	100	0.00
5	S	2-Fluorophenol	1.171	1.140	2.6	101	0.00
6		Aniline	1.381	1.433	-3.8	101	0.00
7	S	Phenol-d6	1.587	1.572	0.9	100	0.00
8		2-Chlorophenol	1.258	1.245	1.0	100	0.00
9		Benzaldehyde	0.951	0.888	6.6	102	0.00
10	C	Phenol	1.674	1.685	-0.7	100	0.00
11		bis(2-Chloroethyl)ether	1.268	1.248	1.6	101	0.00
12		1,3-Dichlorobenzene	1.388	1.359	2.1	101	0.00
13	C	1,4-Dichlorobenzene	1.408	1.370	2.7	100	0.00
14		1,2-Dichlorobenzene	1.307	1.273	2.6	100	0.00
15		Benzyl Alcohol	1.143	1.189	-4.0	100	0.00
16		2,2'-oxybis(1-Chloropropane	1.752	1.765	-0.7	99	0.00
17		2-Methylphenol	1.035	1.041	-0.6	100	0.00
18		Hexachloroethane	0.520	0.509	2.1	101	0.00
19	P	n-Nitroso-di-n-propylamine	0.959	0.960	-0.1	100	0.00
20		3+4-Methylphenols	1.294	1.328	-2.6	100	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
22		Acetophenone	0.465	0.451	3.0	100	0.00
23	S	Nitrobenzene-d5	0.384	0.377	1.8	100	0.00
24		Nitrobenzene	0.400	0.393	1.8	100	0.00
25		Isophorone	0.680	0.673	1.0	100	0.00
26	C	2-Nitrophenol	0.177	0.181	-2.3	101	0.00
27		2,4-Dimethylphenol	0.227	0.230	-1.3	103	0.00
28		bis(2-Chloroethoxy)methane	0.417	0.409	1.9	100	0.00
29	C	2,4-Dichlorophenol	0.281	0.277	1.4	101	0.00
30		1,2,4-Trichlorobenzene	0.312	0.303	2.9	100	0.00
31		Naphthalene	1.015	0.986	2.9	100	0.00
32		Benzoic acid	0.200	0.213	-6.5	100	0.00
33		4-Chloroaniline	0.353	0.344	2.5	101	0.00
34	C	Hexachlorobutadiene	0.199	0.193	3.0	100	0.00
35		Caprolactam	0.093	0.094	-1.1	102	0.00
36	C	4-Chloro-3-methylphenol	0.311	0.314	-1.0	101	0.00
37		2-Methylnaphthalene	0.651	0.635	2.5	100	0.00
38		1-Methylnaphthalene	0.637	0.620	2.7	99	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
40		1,2,4,5-Tetrachlorobenzene	0.553	0.534	3.4	100	0.00
41	P	Hexachlorocyclopentadiene	0.142	0.136	4.2	97	0.00
42	S	2,4,6-Tribromophenol	0.199	0.195	2.0	101	0.00
43	C	2,4,6-Trichlorophenol	0.363	0.361	0.6	100	0.00
44		2,4,5-Trichlorophenol	0.397	0.382	3.8	98	0.00
45	S	2-Fluorobiphenyl	1.244	1.177	5.4	100	0.00
46		1,1'-Biphenyl	1.455	1.421	2.3	101	0.00
47		2-Chloronaphthalene	1.108	1.068	3.6	100	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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	0.368	0.366	0.5	100	0.00
49		Acenaphthylene	1.677	1.633	2.6	99	0.00
50		Dimethylphthalate	1.304	1.269	2.7	100	0.00
51		2,6-Dinitrotoluene	0.297	0.297	0.0	99	0.00
52	C	Acenaphthene	1.133	1.108	2.2	101	0.00
53		3-Nitroaniline	0.312	0.311	0.3	100	0.00
54	P	2,4-Dinitrophenol	0.153	0.154	-0.7	104	0.00
55		Dibenzofuran	1.603	1.575	1.7	101	0.00
56	P	4-Nitrophenol	0.228	0.238	-4.4	100	0.00
57		2,4-Dinitrotoluene	0.391	0.394	-0.8	101	0.00
58		Fluorene	1.267	1.218	3.9	101	0.00
59		2,3,4,6-Tetrachlorophenol	0.313	0.310	1.0	97	0.00
60		Diethylphthalate	1.333	1.298	2.6	100	0.00
61		4-Chlorophenyl-phenylether	0.625	0.601	3.8	99	0.00
62		4-Nitroaniline	0.319	0.316	0.9	98	0.00
63		Azobenzene	1.317	1.306	0.8	101	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
65		4,6-Dinitro-2-methylphenol	0.108	0.111	-2.8	102	0.00
66	c	n-Nitrosodiphenylamine	0.578	0.562	2.8	101	0.00
67		4-Bromophenyl-phenylether	0.200	0.195	2.5	101	0.00
68		Hexachlorobenzene	0.225	0.220	2.2	101	0.00
69		Atrazine	0.175	0.143	18.3	99	0.00
70	C	Pentachlorophenol	0.121	0.126	-4.1	100	0.00
71		Phenanthrene	0.940	0.893	5.0	99	0.00
72		Anthracene	0.921	0.883	4.1	100	0.00
73		Carbazole	0.909	0.879	3.3	101	0.00
74		Di-n-butylphthalate	1.091	1.075	1.5	100	0.00
75	C	Fluoranthene	1.054	1.007	4.5	99	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	95	0.01
77		Benzidine	0.768	0.746	2.9	108	0.00
78		Pyrene	1.711	1.739	-1.6	98	0.00
79	S	Terphenyl-d14	1.152	1.164	-1.0	98	0.00
80		Butylbenzylphthalate	0.657	0.699	-6.4	96	0.00
81		Benzo(a)anthracene	1.314	1.292	1.7	97	0.01
82		3,3'-Dichlorobenzidine	0.418	0.416	0.5	98	0.01
83		Chrysene	1.199	1.186	1.1	96	0.00
84		Bis(2-ethylhexyl)phthalate	0.877	0.926	-5.6	95	0.01
85	c	Di-n-octyl phthalate	1.235	1.249	-1.1	92	0.02
86	I	Perylene-d12	1.000	1.000	0.0	99	0.02
87		Indeno(1,2,3-cd)pyrene	1.235	1.278	-3.5	101	0.02
88		Benzo(b)fluoranthene	1.308	1.215	7.1	95	0.02
89		Benzo(k)fluoranthene	1.069	1.085	-1.5	101	0.02
90	C	Benzo(a)pyrene	1.016	0.999	1.7	98	0.02
91		Dibenzo(a,h)anthracene	1.021	1.069	-4.7	102	0.02
92		Benzo(g,h,i)perylene	1.044	1.061	-1.6	99	0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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	102	0.00
2		1,4-Dioxane	40.000	39.597	1.0	102	0.00
3		Pyridine	40.000	40.655	-1.6	101	0.00
4		n-Nitrosodimethylamine	40.000	39.908	0.2	100	0.00
5	S	2-Fluorophenol	80.000	77.878	2.7	101	0.00
6		Aniline	40.000	41.531	-3.8	101	0.00
7	S	Phenol-d6	80.000	79.248	0.9	100	0.00
8		2-Chlorophenol	40.000	39.588	1.0	100	0.00
9		Benzaldehyde	40.000	37.337	6.7	102	0.00
10	C	Phenol	40.000	40.259	-0.6	100	0.00
11		bis(2-Chloroethyl)ether	40.000	39.367	1.6	101	0.00
12		1,3-Dichlorobenzene	40.000	39.148	2.1	101	0.00
13	C	1,4-Dichlorobenzene	40.000	38.930	2.7	100	0.00
14		1,2-Dichlorobenzene	40.000	38.953	2.6	100	0.00
15		Benzyl Alcohol	40.000	41.596	-4.0	100	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.304	-0.8	99	0.00
17		2-Methylphenol	40.000	40.228	-0.6	100	0.00
18		Hexachloroethane	40.000	39.149	2.1	101	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.079	-0.2	100	0.00
20		3+4-Methylphenols	40.000	41.028	-2.6	100	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	100	0.00
22		Acetophenone	40.000	38.782	3.0	100	0.00
23	S	Nitrobenzene-d5	80.000	78.511	1.9	100	0.00
24		Nitrobenzene	40.000	39.284	1.8	100	0.00
25		Isophorone	40.000	39.558	1.1	100	0.00
26	C	2-Nitrophenol	40.000	40.850	-2.1	101	0.00
27		2,4-Dimethylphenol	40.000	40.536	-1.3	103	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.258	1.9	100	0.00
29	C	2,4-Dichlorophenol	40.000	39.545	1.1	101	0.00
30		1,2,4-Trichlorobenzene	40.000	38.843	2.9	100	0.00
31		Naphthalene	40.000	38.889	2.8	100	0.00
32		Benzoic acid	40.000	42.635	-6.6	100	0.00
33		4-Chloroaniline	40.000	38.996	2.5	101	0.00
34	C	Hexachlorobutadiene	40.000	38.804	3.0	100	0.00
35		Caprolactam	40.000	40.345	-0.9	102	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.356	-0.9	101	0.00
37		2-Methylnaphthalene	40.000	39.072	2.3	100	0.00
38		1-Methylnaphthalene	40.000	38.933	2.7	99	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.657	3.4	100	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.267	4.3	97	0.00
42	S	2,4,6-Tribromophenol	80.000	78.617	1.7	101	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.769	0.6	100	0.00
44		2,4,5-Trichlorophenol	40.000	38.542	3.6	98	0.00
45	S	2-Fluorobiphenyl	80.000	75.707	5.4	100	0.00
46		1,1'-Biphenyl	40.000	39.068	2.3	101	0.00
47		2-Chloronaphthalene	40.000	38.543	3.6	100	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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	39.821	0.4	100	0.00
49		Acenaphthylene	40.000	38.962	2.6	99	0.00
50		Dimethylphthalate	40.000	38.933	2.7	100	0.00
51		2,6-Dinitrotoluene	40.000	39.952	0.1	99	0.00
52	C	Acenaphthene	40.000	39.143	2.1	101	0.00
53		3-Nitroaniline	40.000	39.809	0.5	100	0.00
54	P	2,4-Dinitrophenol	40.000	40.153	-0.4	104	0.00
55		Dibenzofuran	40.000	39.280	1.8	101	0.00
56	P	4-Nitrophenol	40.000	41.782	-4.5	100	0.00
57		2,4-Dinitrotoluene	40.000	40.258	-0.6	101	0.00
58		Fluorene	40.000	38.457	3.9	101	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.601	1.0	97	0.00
60		Diethylphthalate	40.000	38.945	2.6	100	0.00
61		4-Chlorophenyl-phenylether	40.000	38.465	3.8	99	0.00
62		4-Nitroaniline	40.000	39.561	1.1	98	0.00
63		Azobenzene	40.000	39.649	0.9	101	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.144	-2.9	102	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.926	2.7	101	0.00
67		4-Bromophenyl-phenylether	40.000	39.059	2.4	101	0.00
68		Hexachlorobenzene	40.000	39.043	2.4	101	0.00
69		Atrazine	40.000	32.640	18.4	99	0.00
70	C	Pentachlorophenol	40.000	41.693	-4.2	100	0.00
71		Phenanthrene	40.000	38.024	4.9	99	0.00
72		Anthracene	40.000	38.362	4.1	100	0.00
73		Carbazole	40.000	38.676	3.3	101	0.00
74		Di-n-butylphthalate	40.000	39.391	1.5	100	0.00
75	C	Fluoranthene	40.000	38.196	4.5	99	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	95	0.01
77		Benzidine	40.000	38.866	2.8	108	0.00
78		Pyrene	40.000	40.667	-1.7	98	0.00
79	S	Terphenyl-d14	80.000	80.797	-1.0	98	0.00
80		Butylbenzylphthalate	40.000	42.560	-6.4	96	0.00
81		Benzo(a)anthracene	40.000	39.327	1.7	97	0.01
82		3,3'-Dichlorobenzidine	40.000	39.793	0.5	98	0.01
83		Chrysene	40.000	39.569	1.1	96	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	42.213	-5.5	95	0.01
85	c	Di-n-octyl phthalate	40.000	40.448	-1.1	92	0.02
86	I	Perylene-d12	20.000	20.000	0.0	99	0.02
87		Indeno(1,2,3-cd)pyrene	40.000	41.371	-3.4	101	0.02
88		Benzo(b)fluoranthene	40.000	37.153	7.1	95	0.02
89		Benzo(k)fluoranthene	40.000	40.625	-1.6	101	0.02
90	C	Benzo(a)pyrene	40.000	39.337	1.7	98	0.02
91		Dibenzo(a,h)anthracene	40.000	41.871	-4.7	102	0.02
92		Benzo(g,h,i)perylene	40.000	40.635	-1.6	99	0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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: **BF140050.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: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.793	0.741		-6.6	
Pyridine	1.476	1.426		-3.4	
2-Fluorophenol	1.278	1.220		-4.5	
Benzaldehyde	0.931	0.910		-2.3	
Aniline	1.542	1.432		-7.1	
Phenol-d6	1.655	1.531		-7.5	
Phenol	1.706	1.580		-7.4	20.0
bis(2-Chloroethyl)ether	1.319	1.223		-7.3	
2-Chlorophenol	1.306	1.244		-4.7	
1,2-Dichlorobenzene	1.398	1.369		-2.1	
1,3-Dichlorobenzene	1.499	1.477		-1.5	
1,4-Dichlorobenzene	1.498	1.482		-1.1	20.0
Benzyl Alcohol	1.214	1.129		-7.0	
2-Methylphenol	1.114	1.029		-7.6	
2,2-oxybis(1-Chloropropane)	2.248	1.911		-15.0	
Acetophenone	0.490	0.475		-3.1	
3+4-Methylphenols	1.424	1.308		-8.1	
n-Nitroso-di-n-propylamine	1.004	0.873	0.050	-13.0	
Nitrobenzene-d5	0.361	0.380		5.3	
Hexachloroethane	0.534	0.520		-2.6	
Nitrobenzene	0.396	0.399		0.8	
Isophorone	0.685	0.645		-5.8	
2-Nitrophenol	0.149	0.164		10.1	20.0
2,4-Dimethylphenol	0.249	0.232		-6.8	
bis(2-Chloroethoxy)methane	0.415	0.393		-5.3	
2,4-Dichlorophenol	0.283	0.279		-1.4	20.0
1,2,4-Trichlorobenzene	0.314	0.319		1.6	
Benzoic acid	0.217	0.211		-2.8	
Naphthalene	1.031	1.028		-0.3	
4-Chloroaniline	0.352	0.343		-2.6	
Hexachlorobutadiene	0.197	0.204		3.6	20.0
Caprolactam	0.090	0.088		-2.2	
4-Chloro-3-methylphenol	0.314	0.307		-2.2	20.0
2-Methylnaphthalene	0.632	0.618		-2.2	
Hexachlorocyclopentadiene	0.188	0.191	0.050	1.6	
2,4,6-Trichlorophenol	0.382	0.374		-2.1	20.0
2-Fluorobiphenyl	1.210	1.211		0.1	
2,4,5-Trichlorophenol	0.394	0.414		5.1	
1,1-Biphenyl	1.392	1.391		-0.1	

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: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.121	1.129		0.7	
2-Nitroaniline	0.343	0.375		9.3	
Dimethylphthalate	1.246	1.229		-1.4	
Acenaphthylene	1.621	1.628		0.4	
2,6-Dinitrotoluene	0.270	0.290		7.4	
3-Nitroaniline	0.278	0.298		7.2	
Acenaphthene	1.049	1.058		0.9	20.0
2,4-Dinitrophenol	0.093	0.126	0.050	35.5	
4-Nitrophenol	0.214	0.229	0.050	7.0	
Dibenzofuran	1.505	1.491		-0.9	
2,4-Dinitrotoluene	0.332	0.383		15.4	
Diethylphthalate	1.223	1.181		-3.4	
4-Chlorophenyl-phenylether	0.579	0.581		0.3	
Fluorene	1.146	1.149		0.3	
4-Nitroaniline	0.263	0.289		9.9	
4,6-Dinitro-2-methylphenol	0.082	0.104		26.8	
n-Nitrosodiphenylamine	0.599	0.572		-4.5	20.0
Azobenzene	1.297	1.197		-7.7	
2,4,6-Tribromophenol	0.187	0.204		9.1	
4-Bromophenyl-phenylether	0.206	0.202		-1.9	
Hexachlorobenzene	0.232	0.233		0.4	
Atrazine	0.162	0.156		-3.7	
Pentachlorophenol	0.141	0.152		7.8	20.0
Phenanthrene	0.945	0.913		-3.4	
Anthracene	0.922	0.901		-2.3	
Carbazole	0.857	0.832		-2.9	
Di-n-butylphthalate	0.990	0.946		-4.4	
Fluoranthene	0.955	0.965		1.0	20.0
Benzidine	0.329	0.451		37.1	
Pyrene	1.751	1.811		3.4	
Terphenyl-d14	1.227	1.258		2.5	
Butylbenzylphthalate	0.525	0.551		5.0	
3,3-Dichlorobenzidine	0.380	0.409		7.6	
Benzo(a)anthracene	1.302	1.311		0.7	
Chrysene	1.194	1.157		-3.1	
Bis(2-ethylhexyl)phthalate	0.589	0.606		2.9	
Di-n-octyl phthalate	1.071	0.894		-16.5	20.0
Benzo(b)fluoranthene	1.218	1.154		-5.3	
Benzo(k)fluoranthene	1.051	1.063		1.1	

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: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.002	1.013		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.303		1.2	
Dibenzo(a,h)anthracene	1.073	1.070		-0.3	
Benzo(g,h,i)perylene	1.072	1.111		3.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.555		2.8	
1,4-Dioxane	0.596	0.584		-2.0	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.315		1.9	
1-Methylnaphthalene	0.620	0.605		-2.4	

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BF140050.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140050.D
Acq On : 26 Oct 2024 10:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 28 01:04:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	128827	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	465620	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	252523	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	452033	20.000	ng	0.00
76) Chrysene-d12	14.051	240	241717	20.000	ng	0.00
86) Perylene-d12	15.533	264	235878	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	628864	76.419	ng	0.00
7) Phenol-d6	6.510	99	789164	74.043	ng	0.00
23) Nitrobenzene-d5	7.451	82	708619	84.348	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	205981	87.205	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1223250	80.059	ng	0.00
79) Terphenyl-d14	12.998	244	1215864	81.965	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	150421	39.204	ng	95
3) Pyridine	3.434	79	367370	38.628	ng	96
4) n-Nitrosodimethylamine	3.387	42	190956	37.371	ng	99
6) Aniline	6.551	93	368957	37.144	ng	99
8) 2-Chlorophenol	6.675	128	320586	38.107	ng	98
9) Benzaldehyde	6.440	77	234371	39.089	ng	98
10) Phenol	6.528	94	407135m	37.053	ng	
11) bis(2-Chloroethyl)ether	6.628	93	315031	37.093	ng	98
12) 1,3-Dichlorobenzene	6.834	146	380517	39.403	ng	99
13) 1,4-Dichlorobenzene	6.910	146	381820	39.575	ng	98
14) 1,2-Dichlorobenzene	7.063	146	352670	39.166	ng	99
15) Benzyl Alcohol	7.028	79	290777	37.193	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	492247	33.991	ng	98
17) 2-Methylphenol	7.134	107	265251	36.976	ng	99
18) Hexachloroethane	7.404	117	133886	38.915	ng	96
19) n-Nitroso-di-n-propyla...	7.304	70	225036	34.813	ng	96
20) 3+4-Methylphenols	7.287	107	337114	36.741	ng	97
22) Acetophenone	7.298	105	442717	38.819	ng	98
24) Nitrobenzene	7.475	77	371997	40.387	ng	99
25) Isophorone	7.710	82	600543	37.663	ng	100
26) 2-Nitrophenol	7.787	139	152898	44.001	ng	98
27) 2,4-Dimethylphenol	7.816	122	215623	37.214	ng	98
28) bis(2-Chloroethoxy)met...	7.916	93	366191	37.905	ng	99
29) 2,4-Dichlorophenol	8.022	162	259831	39.370	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	297397	40.725	ng	99
31) Naphthalene	8.192	128	957179	39.859	ng	100
32) Benzoic acid	7.922	122	196406	38.864	ng	99
33) 4-Chloroaniline	8.239	127	319573	39.027	ng	98
34) Hexachlorobutadiene	8.310	225	190352	41.486	ng	99
35) Caprolactam	8.610	113	82029	39.090	ng	92
36) 4-Chloro-3-methylphenol	8.716	107	286338	39.183	ng	98
37) 2-Methylnaphthalene	8.886	142	575923	39.160	ng	99
38) 1-Methylnaphthalene	8.986	142	563589	39.059	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	280380	41.156	ng	100
41) Hexachlorocyclopentadiene	9.039	237	96240	40.599	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	189095	39.204	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140050.D
Acq On : 26 Oct 2024 10:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

Quant Time: Oct 28 01:04:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	209100	42.019	ng		98
46) 1,1'-Biphenyl	9.351	154	702753	39.976	ng		99
47) 2-Chloronaphthalene	9.375	162	569969	40.256	ng		100
48) 2-Nitroaniline	9.463	65	189346	43.726	ng		97
49) Acenaphthylene	9.792	152	822402	40.178	ng		99
50) Dimethylphthalate	9.645	163	620788	39.467	ng		100
51) 2,6-Dinitrotoluene	9.710	165	146590	43.043	ng		95
52) Acenaphthene	9.963	154	534118	40.337	ng		99
53) 3-Nitroaniline	9.875	138	150273	42.788	ng		98
54) 2,4-Dinitrophenol	9.980	184	63575	47.791	ng	#	1
55) Dibenzofuran	10.133	168	753272	39.650	ng		99
56) 4-Nitrophenol	10.022	139	115811	42.861	ng		98
57) 2,4-Dinitrotoluene	10.110	165	193550	46.215	ng		97
58) Fluorene	10.475	166	580262	40.101	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	158963	40.748	ng		98
60) Diethylphthalate	10.345	149	596467	38.622	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	293294	40.136	ng		99
62) 4-Nitroaniline	10.486	138	145969	44.006	ng		98
63) Azobenzene	10.628	77	604466	36.919	ng		97
65) 4,6-Dinitro-2-methylph...	10.516	198	94428	51.213	ng		95
66) n-Nitrosodiphenylamine	10.586	169	516725	38.193	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	182651	39.222	ng		98
68) Hexachlorobenzene	11.022	284	210271	40.149	ng		98
69) Atrazine	11.110	200	141427	38.590	ng		98
70) Pentachlorophenol	11.216	266	137449	43.242	ng		99
71) Phenanthrene	11.439	178	825275	38.651	ng		100
72) Anthracene	11.492	178	814682	39.105	ng		100
73) Carbazole	11.645	167	752228	38.824	ng		99
74) Di-n-butylphthalate	11.975	149	855272	38.208	ng		100
75) Fluoranthene	12.627	202	872425	40.418	ng		99
77) Benzidine	12.745	184	218225	54.904	ng		99
78) Pyrene	12.857	202	875493	41.378	ng		100
80) Butylbenzylphthalate	13.469	149	266392	41.996	ng		98
81) Benzo(a)anthracene	14.045	228	634008	40.293	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	197714	43.096	ng		98
83) Chrysene	14.080	228	559543	38.784	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	293086	41.182	ng		99
85) Di-n-octyl phthalate	14.645	149	432082	33.379	ng		98
87) Indeno(1,2,3-cd)pyrene	17.033	276	614705	40.509	ng		97
88) Benzo(b)fluoranthene	15.098	252	544199	37.874	ng		99
89) Benzo(k)fluoranthene	15.127	252	501497	40.470	ng		99
90) Benzo(a)pyrene	15.468	252	477754	40.409	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	504913	39.886	ng		97
92) Benzo(g,h,i)perylene	17.486	276	523930	41.435	ng		98

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

Sample Results: **BF140050.D**

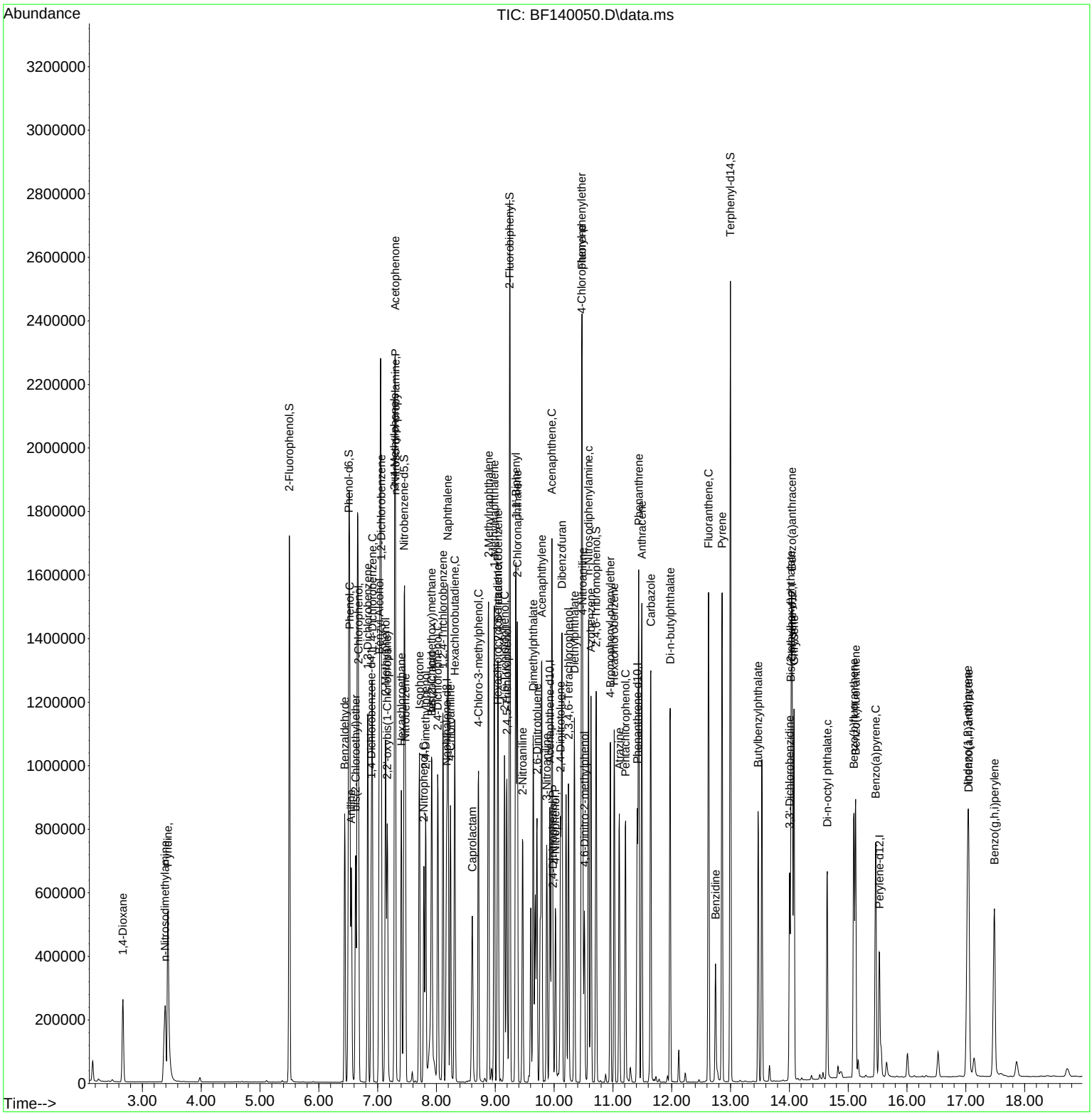
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140050.D
Acq On : 26 Oct 2024 10:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

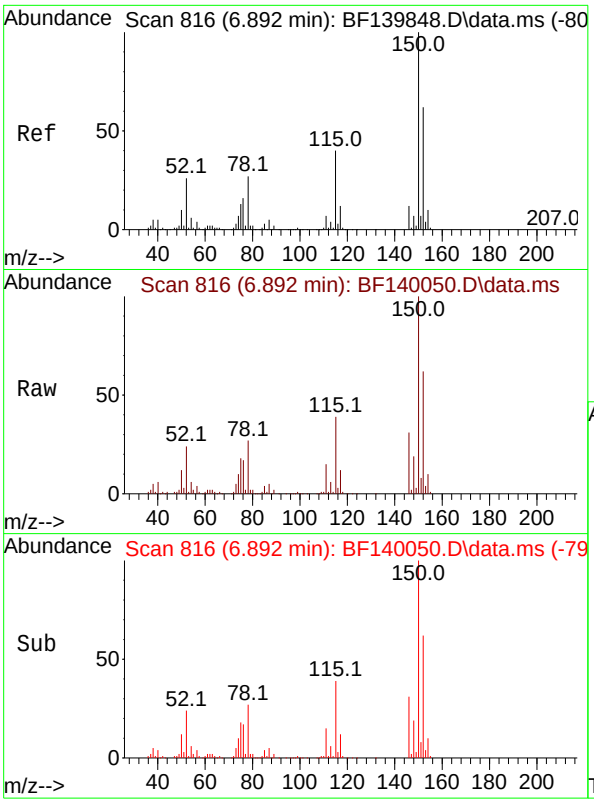
Quant Time: Oct 28 01:04:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

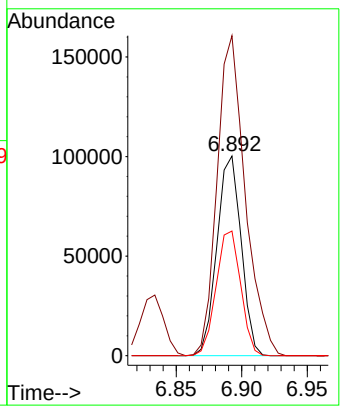




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:152 Resp: 12882

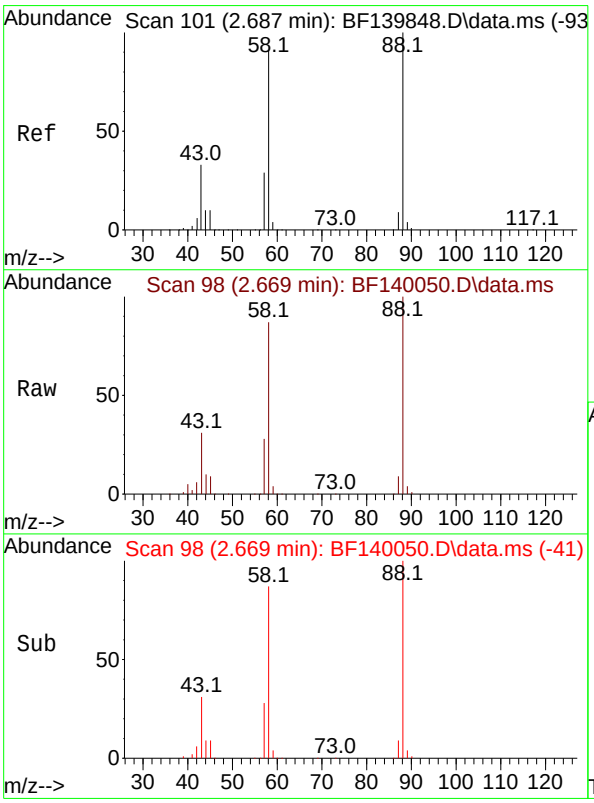
Ion	Ratio	Lower	Upper
152	100		
150	160.2	130.2	195.2
115	62.4	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

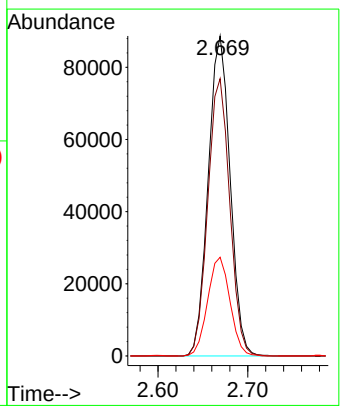
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

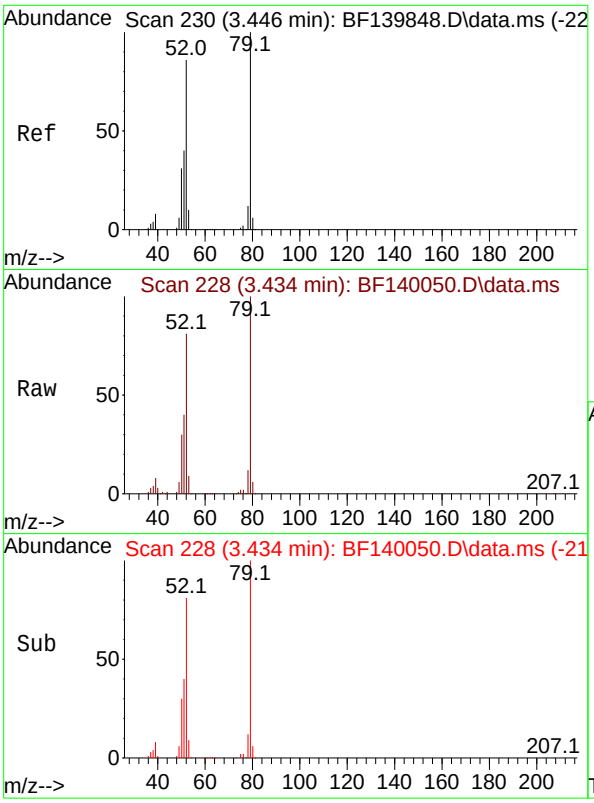


#2
1,4-Dioxane
Concen: 39.204 ng
RT: 2.669 min Scan# 98
Delta R.T. -0.018 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion: 88 Resp: 150421

Ion	Ratio	Lower	Upper
88	100		
58	86.6	73.3	109.9
43	31.5	27.1	40.7

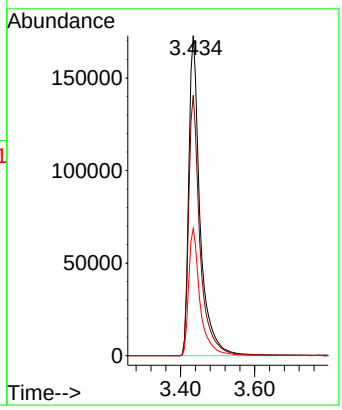




#3
Pyridine
Concen: 38.628 ng
RT: 3.434 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion: 79 Resp: 36737

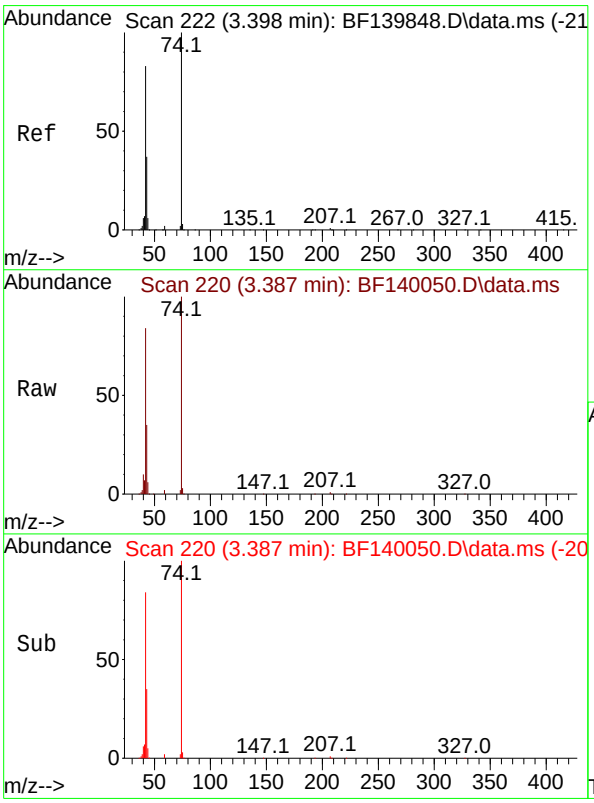
Ion	Ratio	Lower	Upper
79	100		
52	81.3	68.5	102.7
51	39.7	32.3	48.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

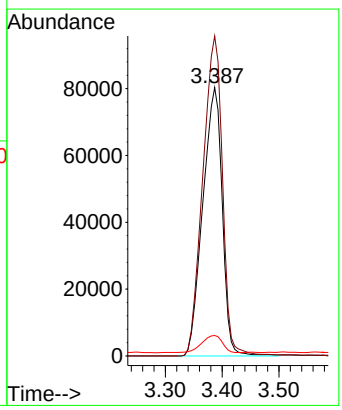
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

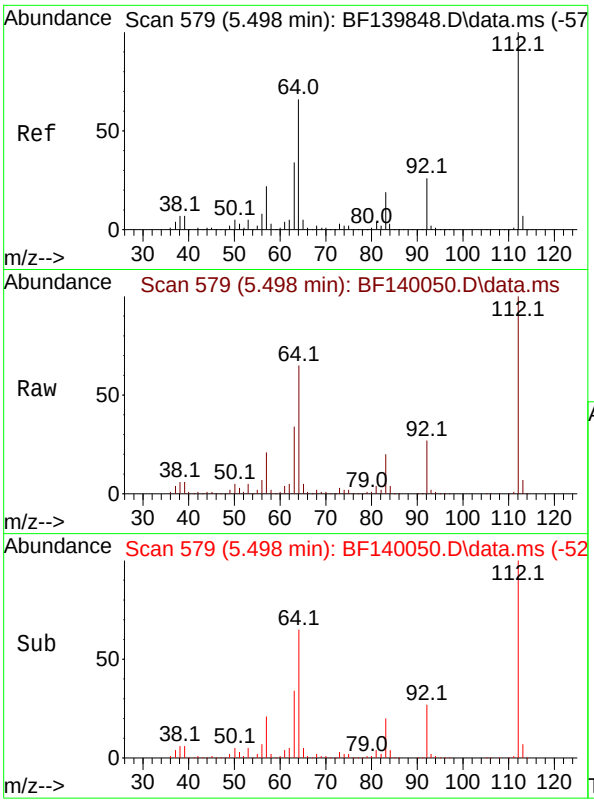


#4
n-Nitrosodimethylamine
Concen: 37.371 ng
RT: 3.387 min Scan# 220
Delta R.T. -0.012 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion: 42 Resp: 190956

Ion	Ratio	Lower	Upper
42	100		
74	119.2	96.2	144.4
44	7.6	6.2	9.2

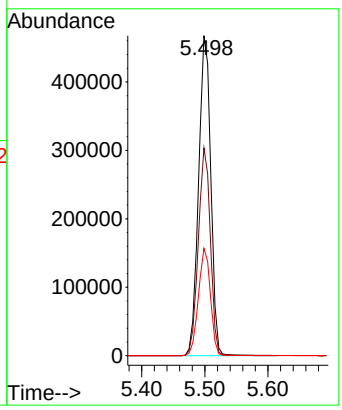




#5
2-Fluorophenol
Concen: 76.419 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:112 Resp: 62886

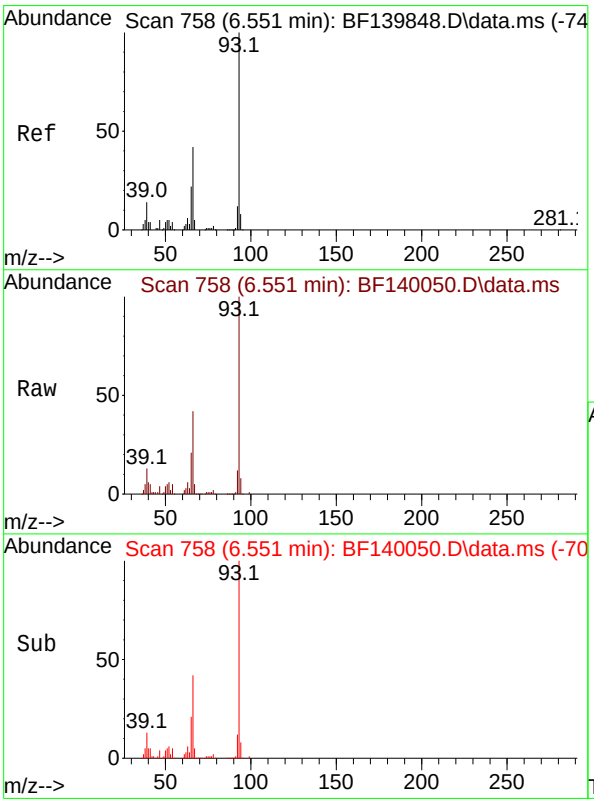
Ion	Ratio	Lower	Upper
112	100		
64	64.9	53.0	79.6
63	33.6	27.0	40.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

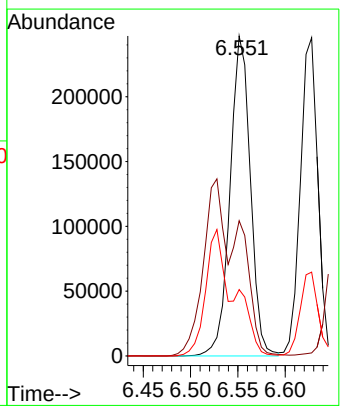
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

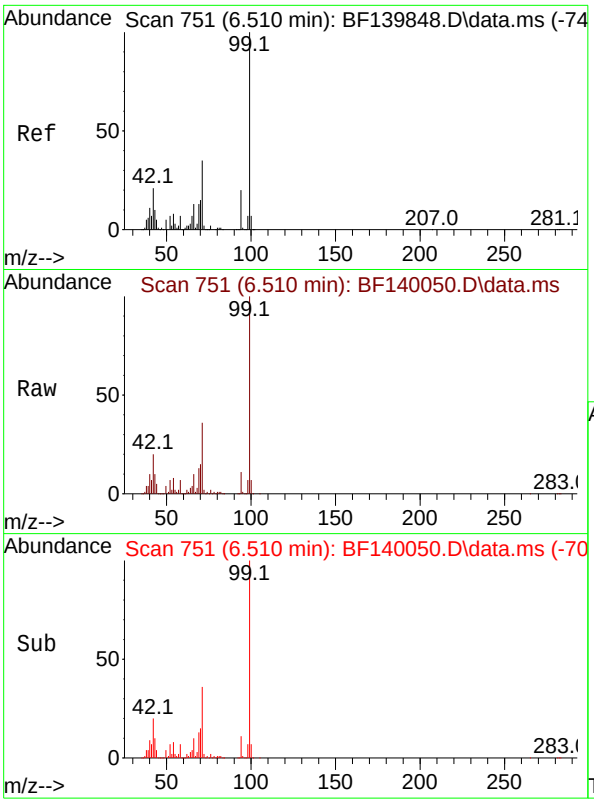


#6
Aniline
Concen: 37.144 ng
RT: 6.551 min Scan# 758
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion: 93 Resp: 368957

Ion	Ratio	Lower	Upper
93	100		
66	42.2	34.0	51.0
65	20.7	17.4	26.0

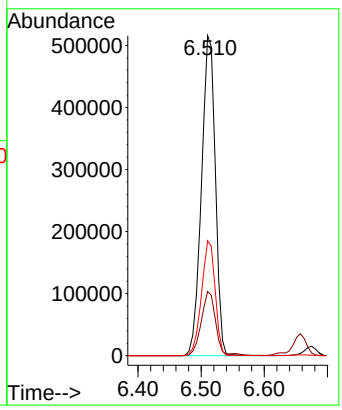




#7
Phenol-d6
Concen: 74.043 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion: 99 Resp: 78916

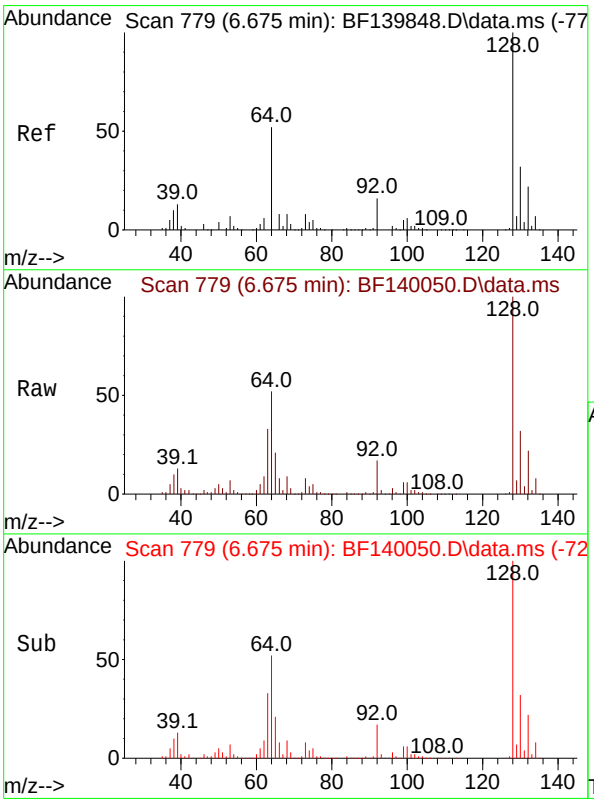
Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.7	25.1
71	35.9	27.7	41.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

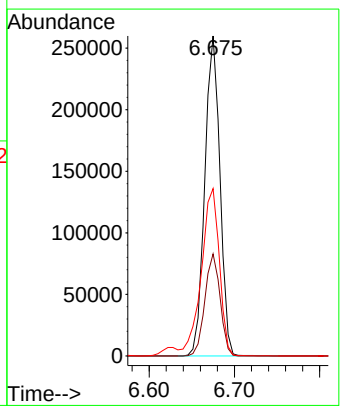
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

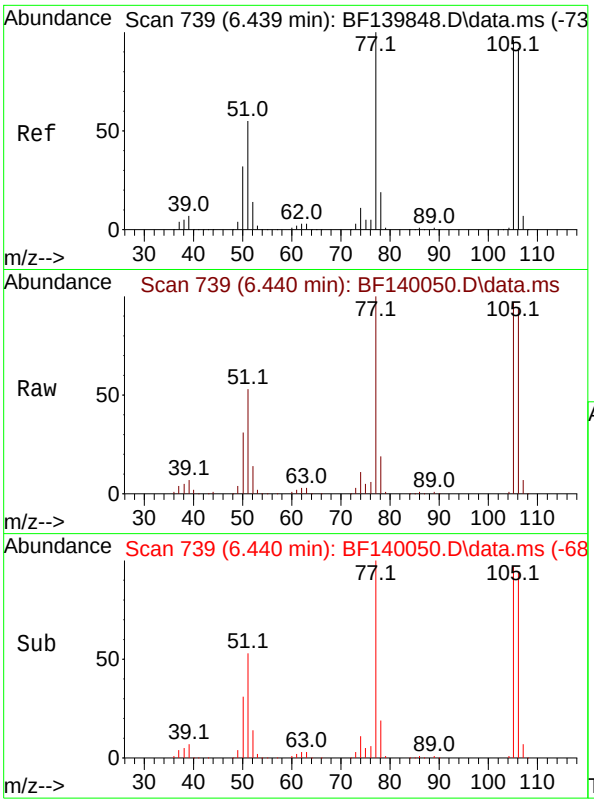


#8
2-Chlorophenol
Concen: 38.107 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:128 Resp: 320586

Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.3	52.3
64	52.3	34.6	74.6





#9
Benzaldehyde
Concen: 39.089 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

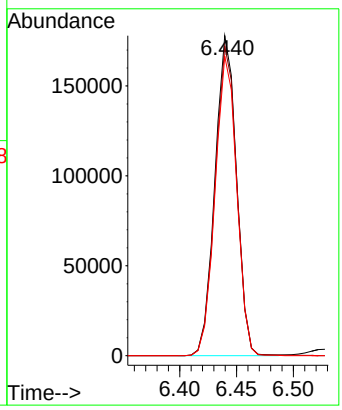
Tgt Ion: 77 Resp: 23437

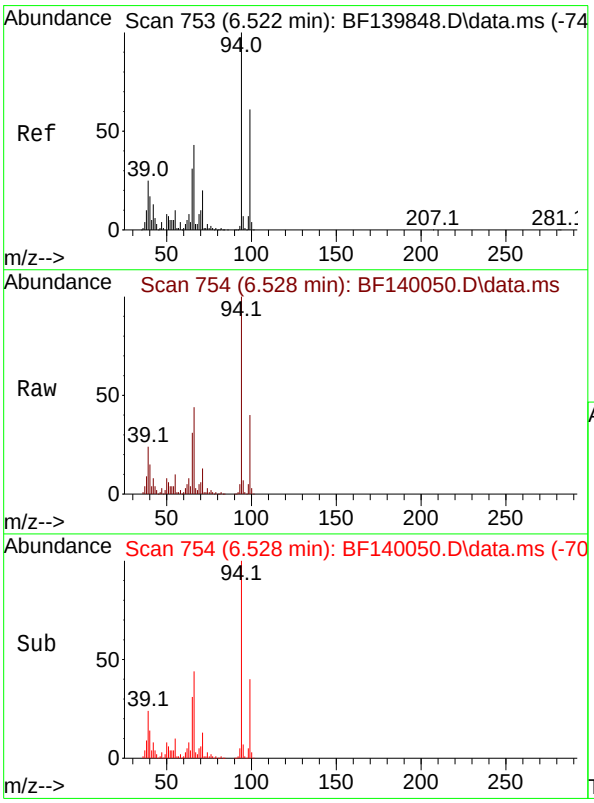
Ion	Ratio	Lower	Upper
77	100		
105	96.7	75.5	115.5
106	93.6	71.7	111.7

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

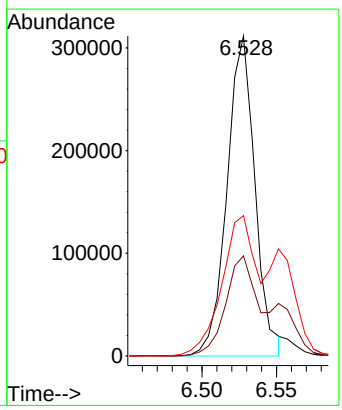


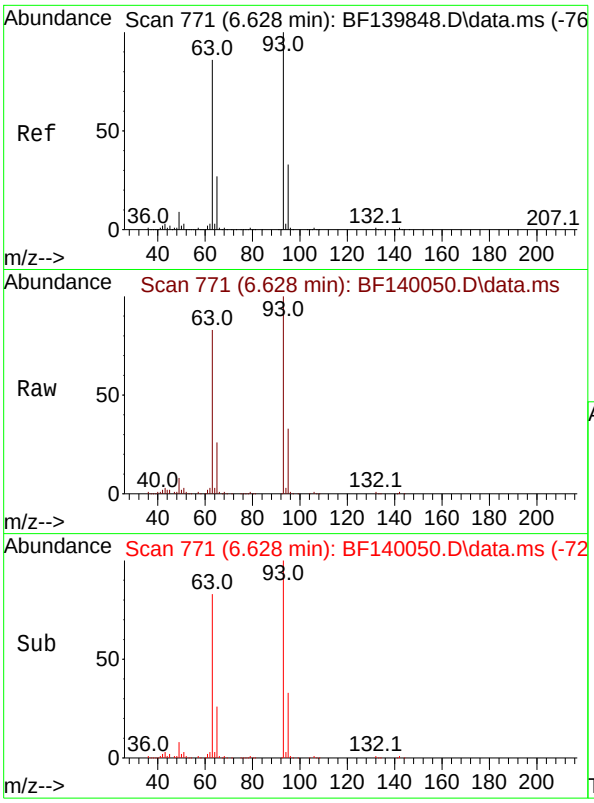


#10
Phenol
Concen: 37.053 ng m
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion: 94 Resp: 407135

Ion	Ratio	Lower	Upper
94	100		
65	31.3	11.1	51.1
66	43.8	22.7	62.7





#11
bis(2-Chloroethyl)ether
Concen: 37.093 ng
RT: 6.628 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

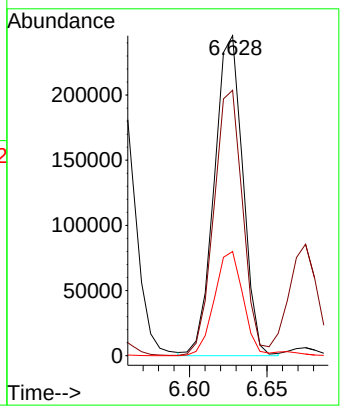
Tgt Ion: 93 Resp: 31503

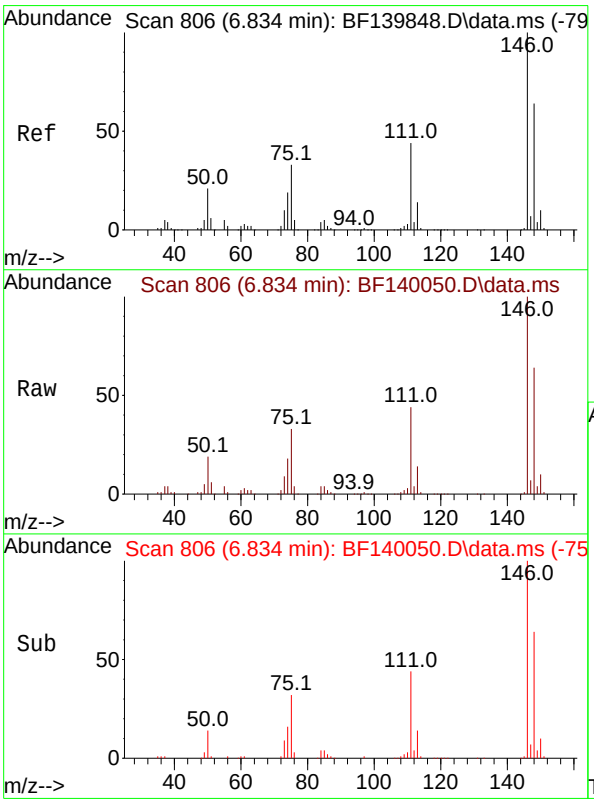
Ion	Ratio	Lower	Upper
93	100		
63	82.9	65.0	105.0
95	32.5	12.4	52.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

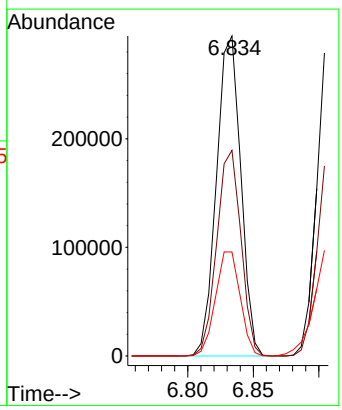


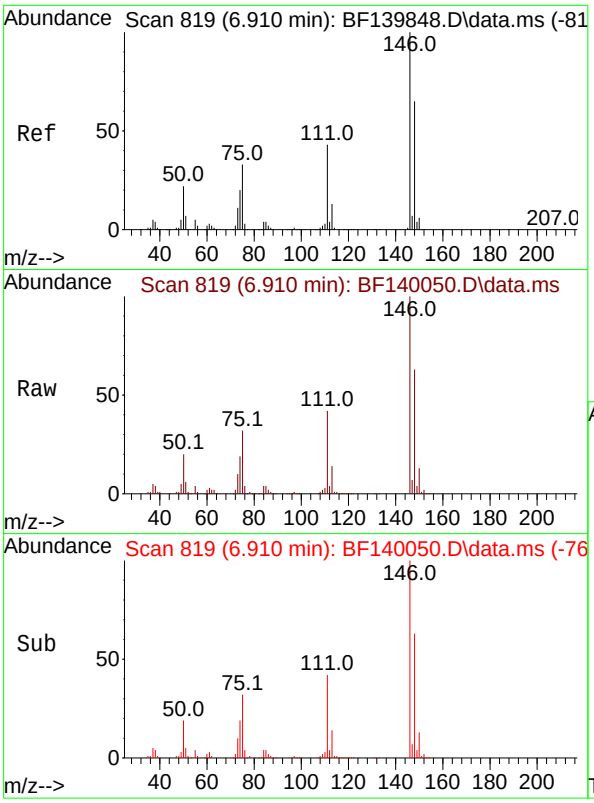


#12
1,3-Dichlorobenzene
Concen: 39.403 ng
RT: 6.834 min Scan# 806
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:146 Resp: 380517

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.4
75	32.5	26.4	39.6





#13
1,4-Dichlorobenzene
Concen: 39.575 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

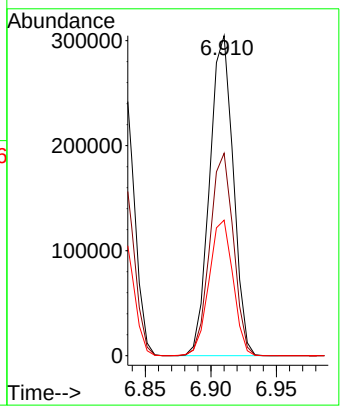
Tgt Ion:146 Resp: 38182

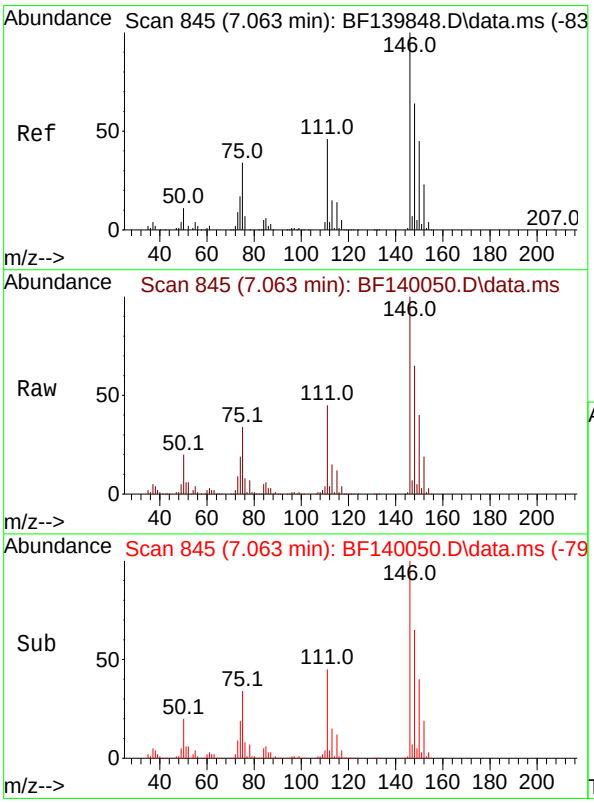
Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.8	77.8
111	42.4	34.6	51.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

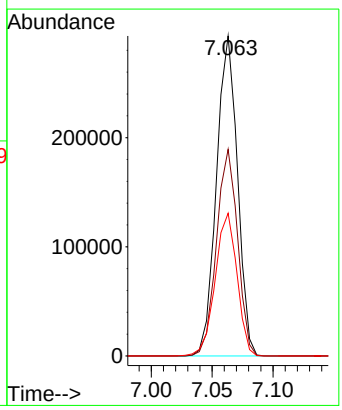


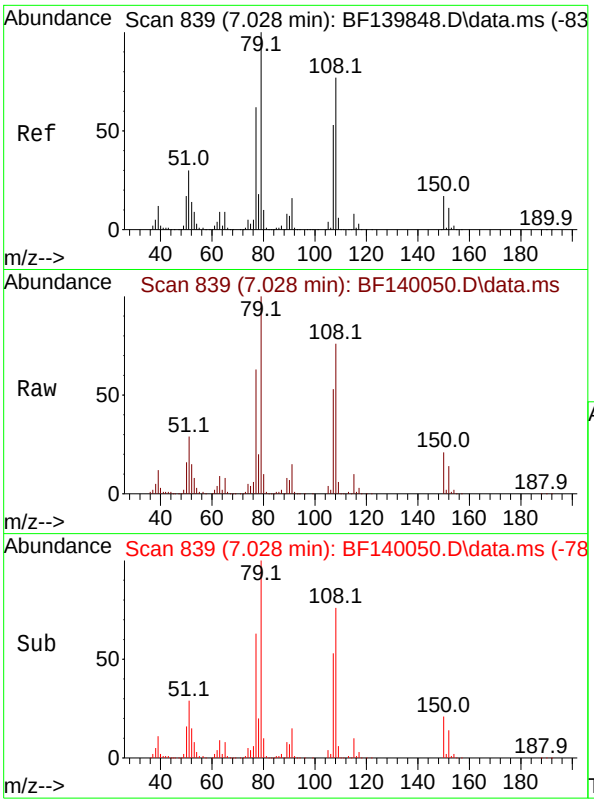


#14
1,2-Dichlorobenzene
Concen: 39.166 ng
RT: 7.063 min Scan# 845
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:146 Resp: 352670

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.4	77.2
111	44.6	36.7	55.1





#15
Benzyl Alcohol
Concen: 37.193 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

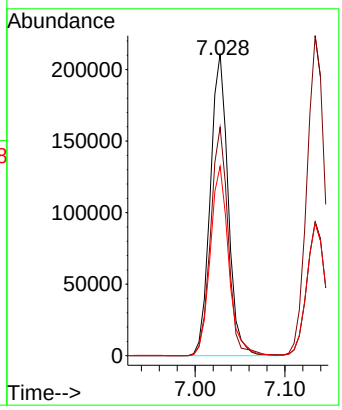
Tgt Ion: 79 Resp: 29077

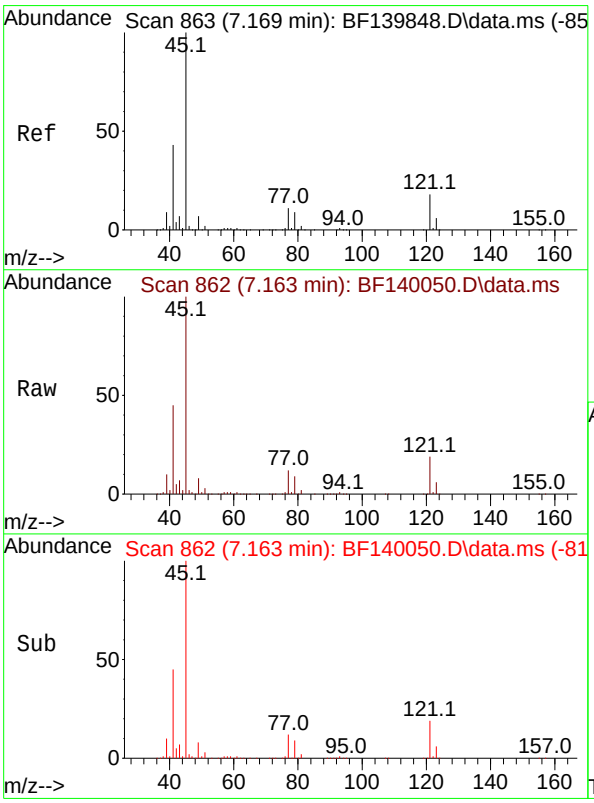
Ion	Ratio	Lower	Upper
79	100		
108	75.7	61.4	92.0
77	62.7	49.9	74.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

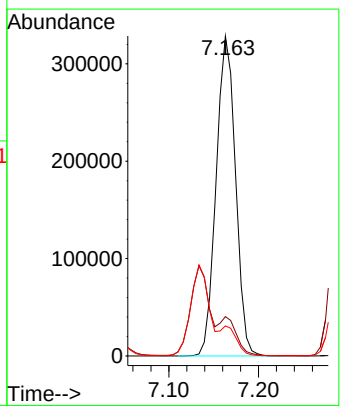


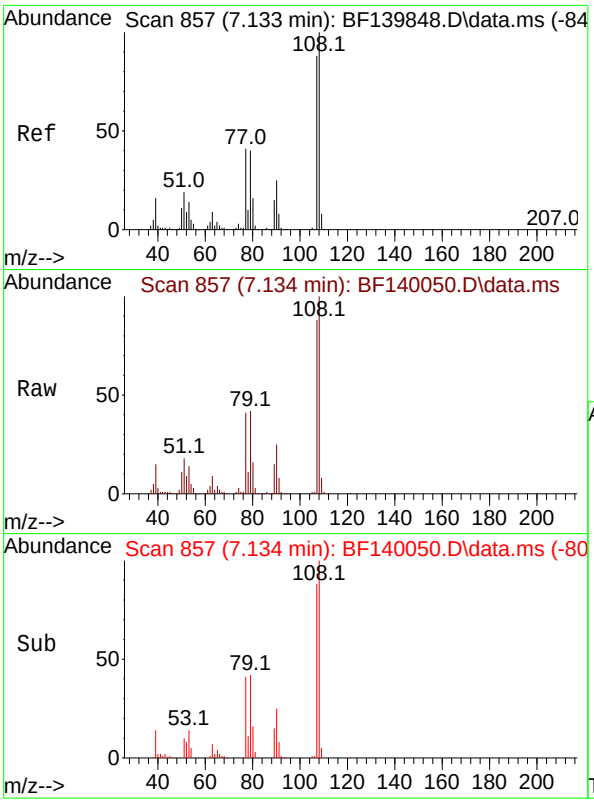


#16
2,2'-oxybis(1-Chloropropane)
Concen: 33.991 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion: 45 Resp: 492247

Ion	Ratio	Lower	Upper
45	100		
77	12.3	0.0	31.5
79	9.4	0.0	29.1

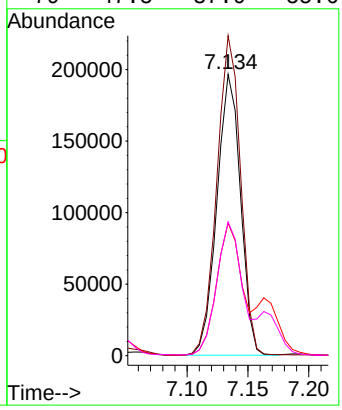




#17
2-Methylphenol
Concen: 36.976 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:107 Resp: 26525

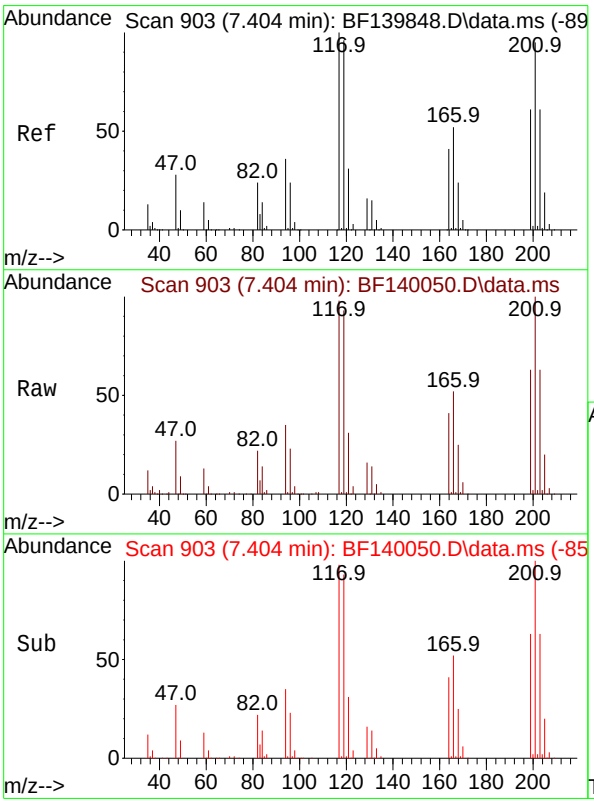
Ion	Ratio	Lower	Upper
107	100		
108	113.7	91.3	136.9
77	47.2	37.1	55.7
79	47.5	37.0	55.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

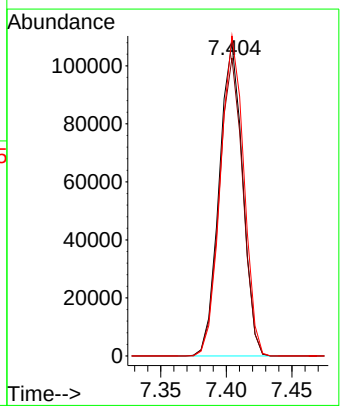
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

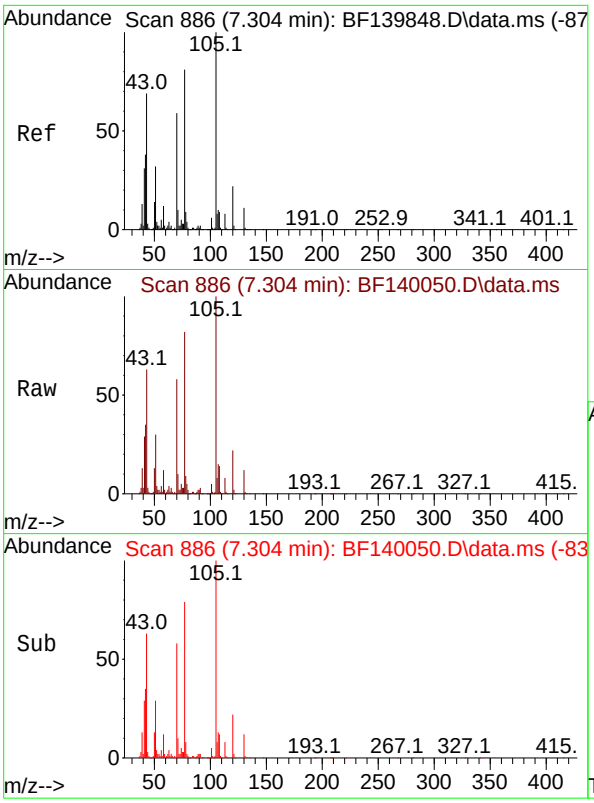


#18
Hexachloroethane
Concen: 38.915 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:117 Resp: 133886

Ion	Ratio	Lower	Upper
117	100		
119	95.1	77.0	115.4
201	102.1	76.2	114.4

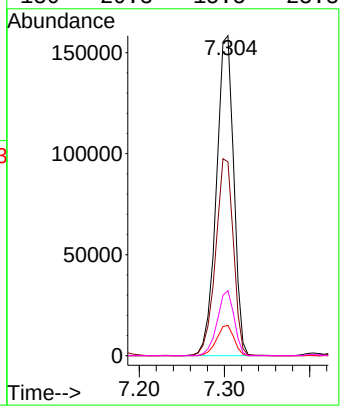




#19
n-Nitroso-di-n-propylamine
Concen: 34.813 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion: 70 Resp: 22503

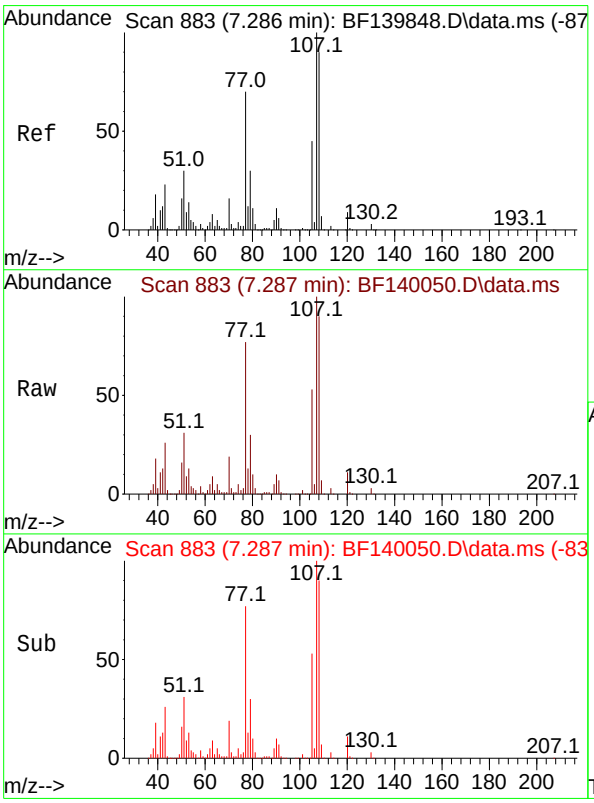
Ion	Ratio	Lower	Upper
70	100		
42	60.5	51.5	77.3
101	9.4	7.5	11.3
130	20.3	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

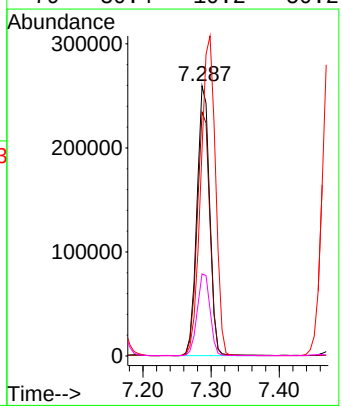
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

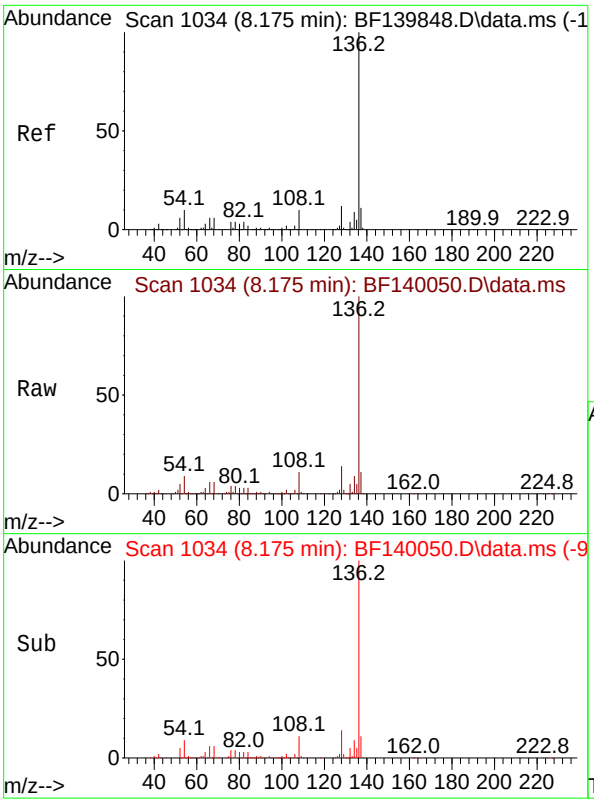


#20
3+4-Methylphenols
Concen: 36.741 ng
RT: 7.287 min Scan# 883
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:107 Resp: 337114

Ion	Ratio	Lower	Upper
107	100		
108	90.2	69.8	109.8
77	76.6	50.5	90.5
79	30.4	10.2	50.2

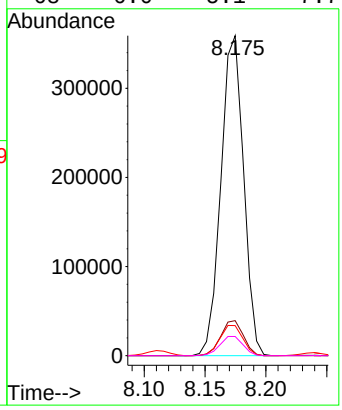




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:136 Resp: 46562

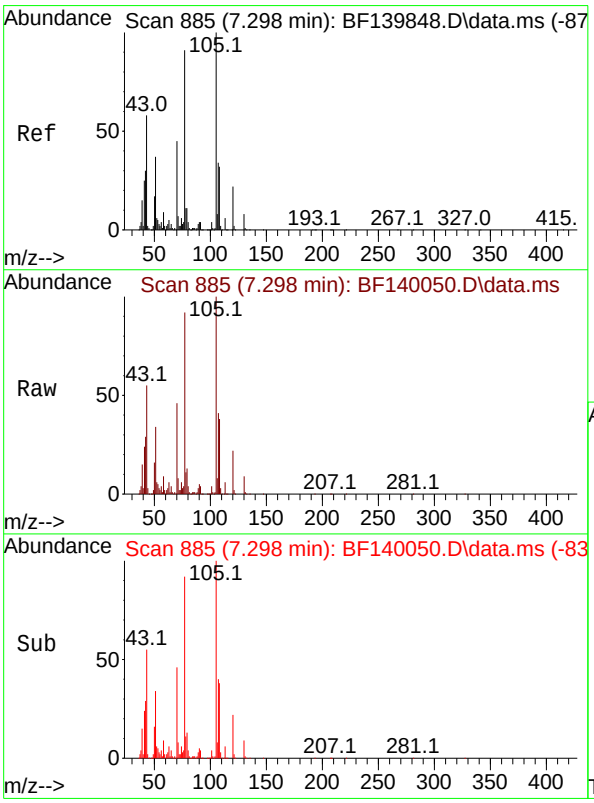
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	9.4	8.4	12.6
68	6.0	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

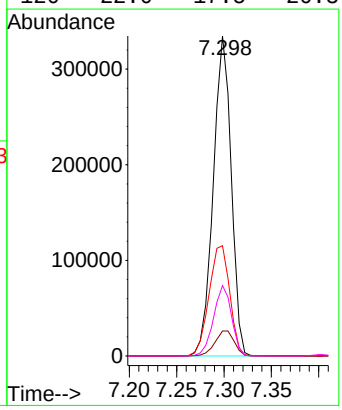
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

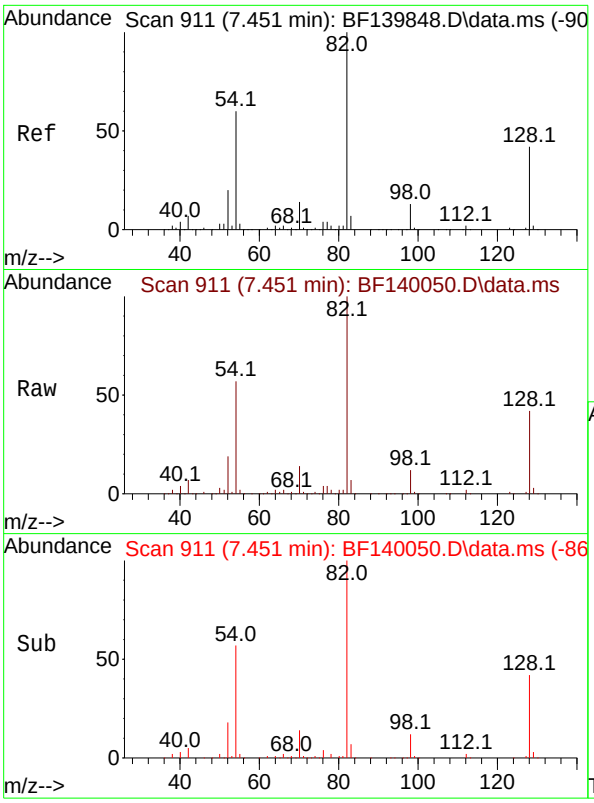


#22
Acetophenone
Concen: 38.819 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:105 Resp: 442717

Ion	Ratio	Lower	Upper
105	100		
71	7.8	5.9	8.9
51	34.5	29.4	44.2
120	22.0	17.5	26.3





#23
Nitrobenzene-d5
Concen: 84.348 ng
RT: 7.451 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

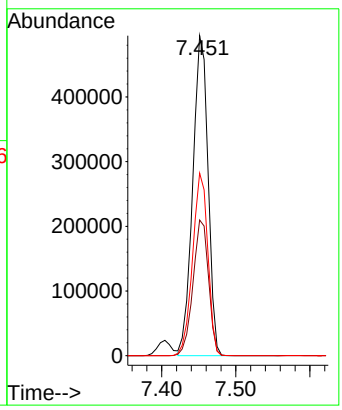
Tgt Ion: 82 Resp: 70861

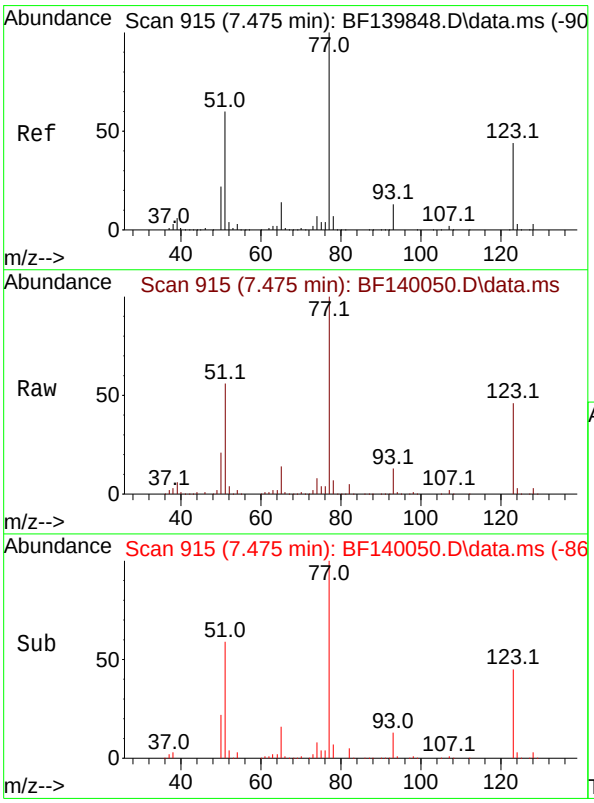
Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	57.1	47.8	71.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

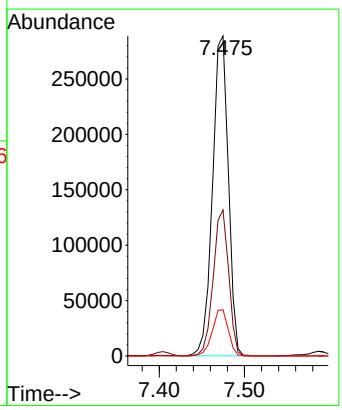


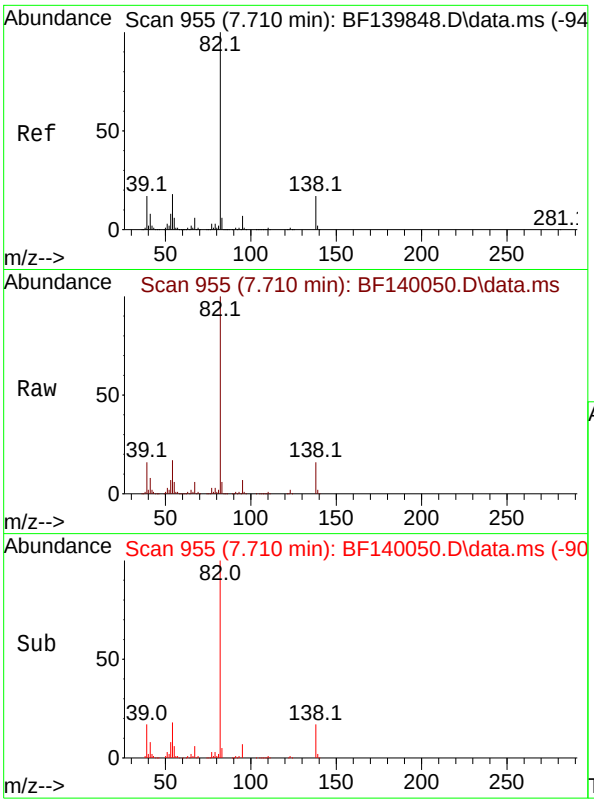


#24
Nitrobenzene
Concen: 40.387 ng
RT: 7.475 min Scan# 915
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion: 77 Resp: 371997

Ion	Ratio	Lower	Upper
77	100		
123	45.6	35.7	53.5
65	14.5	11.5	17.3





#25
Isophorone
Concen: 37.663 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

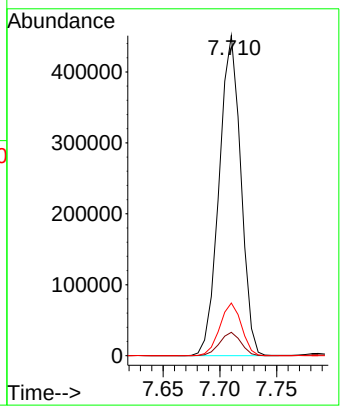
Tgt Ion: 82 Resp: 60054

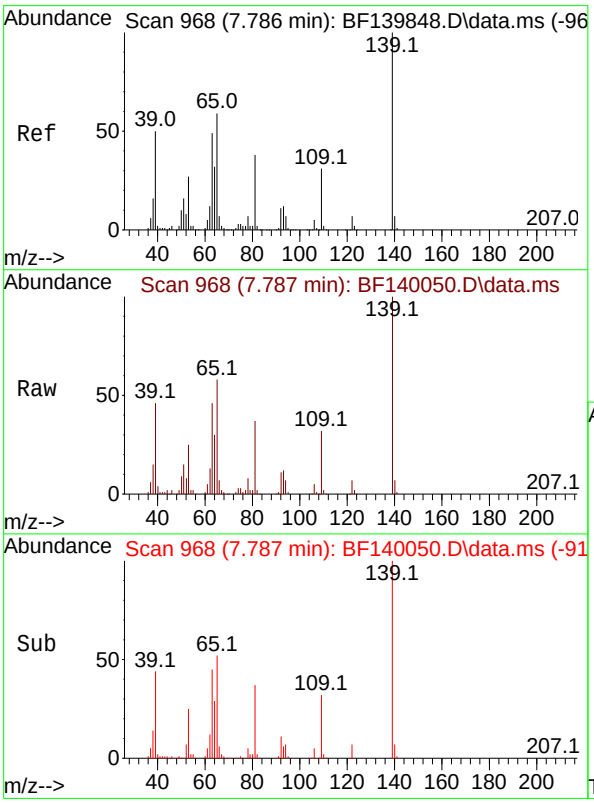
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.5	8.3
138	16.5	13.2	19.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

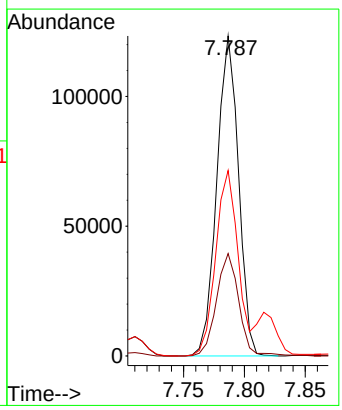


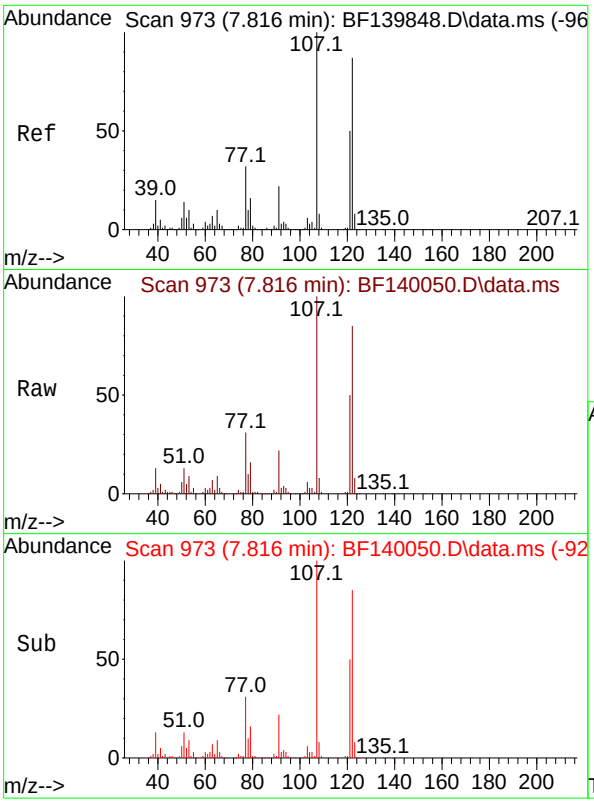


#26
2-Nitrophenol
Concen: 44.001 ng
RT: 7.787 min Scan# 968
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:139 Resp: 152898

Ion	Ratio	Lower	Upper
139	100		
109	32.0	25.1	37.7
65	57.9	47.5	71.3

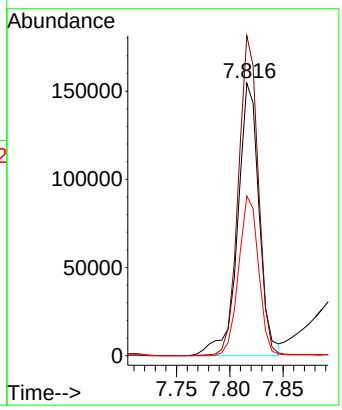




#27
2,4-Dimethylphenol
Concen: 37.214 ng
RT: 7.816 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:122 Resp: 21562

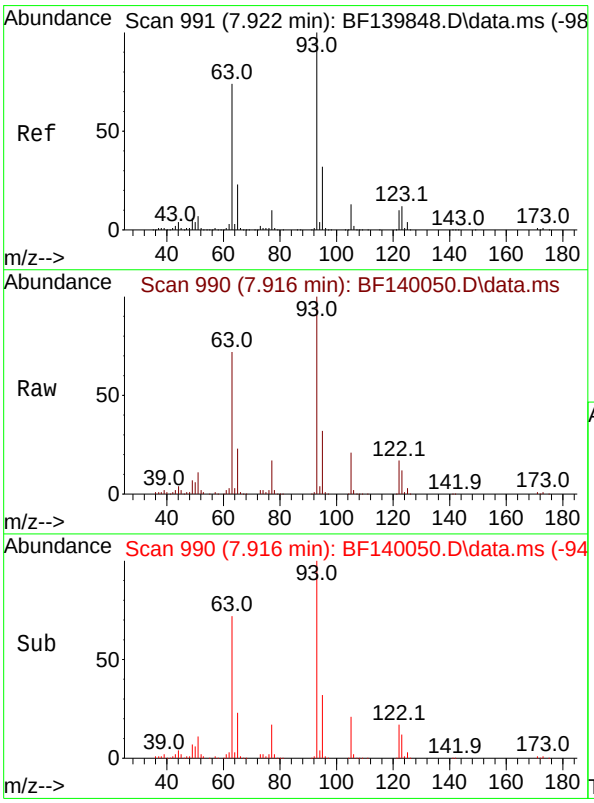
Ion	Ratio	Lower	Upper
122	100		
107	117.4	91.9	137.9
121	58.6	46.2	69.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

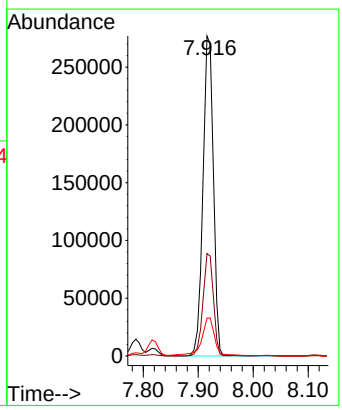
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

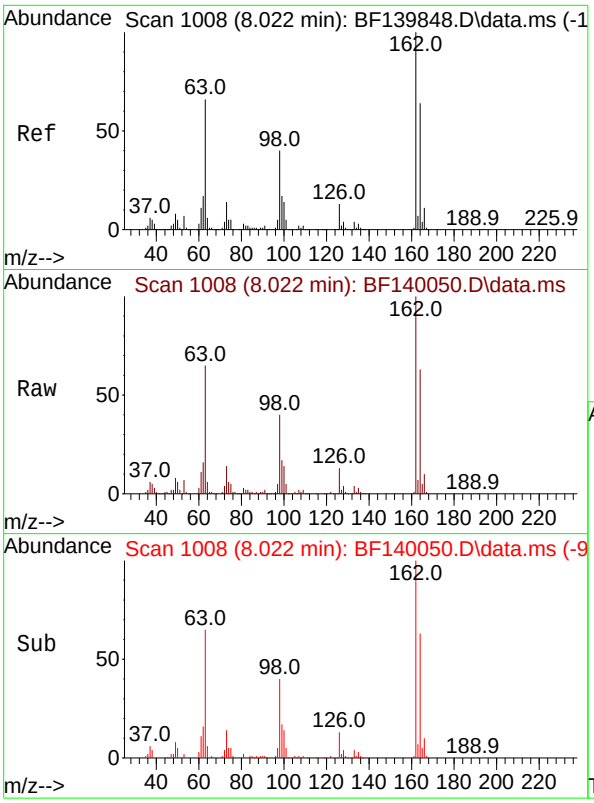


#28
bis(2-Chloroethoxy)methane
Concen: 37.905 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion: 93 Resp: 366191

Ion	Ratio	Lower	Upper
93	100		
95	32.0	26.0	39.0
123	11.8	9.8	14.8





#29
2,4-Dichlorophenol
Concen: 39.370 ng
RT: 8.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

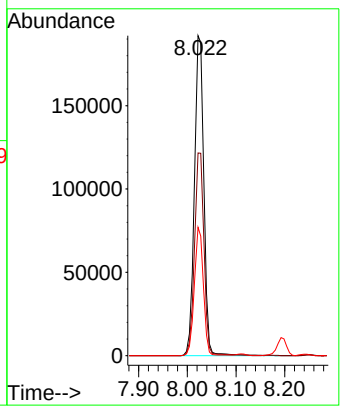
Tgt Ion:162 Resp: 25983

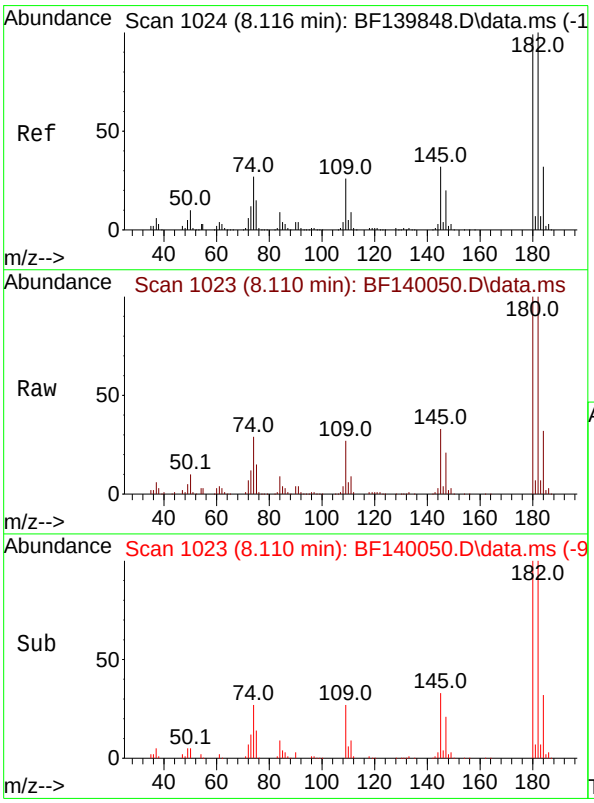
Ion	Ratio	Lower	Upper
162	100		
164	63.4	43.9	83.9
98	40.1	19.9	59.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

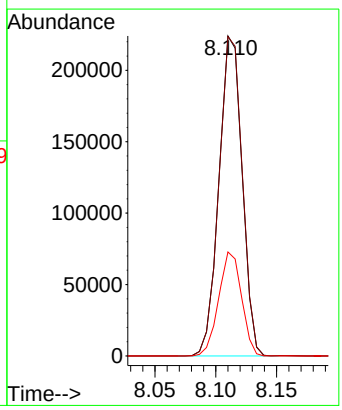


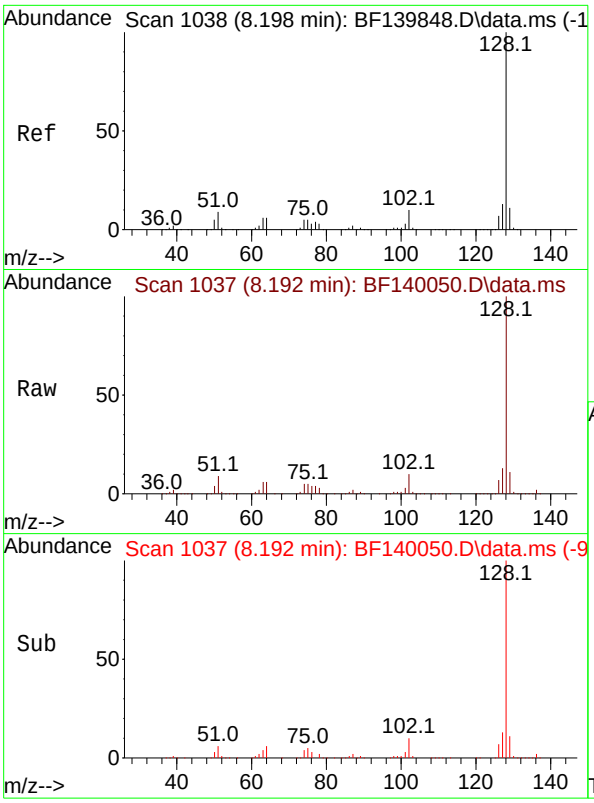


#30
1,2,4-Trichlorobenzene
Concen: 40.725 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:180 Resp: 297397

Ion	Ratio	Lower	Upper
180	100		
182	99.8	80.5	120.7
145	32.5	25.4	38.0





#31
Naphthalene
Concen: 39.859 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

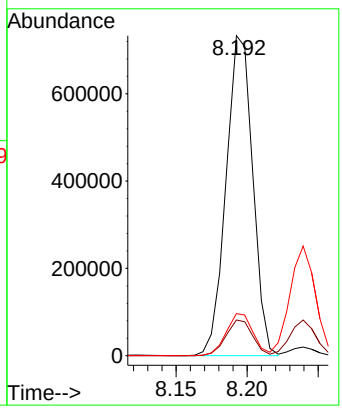
Tgt Ion:128 Resp: 95717

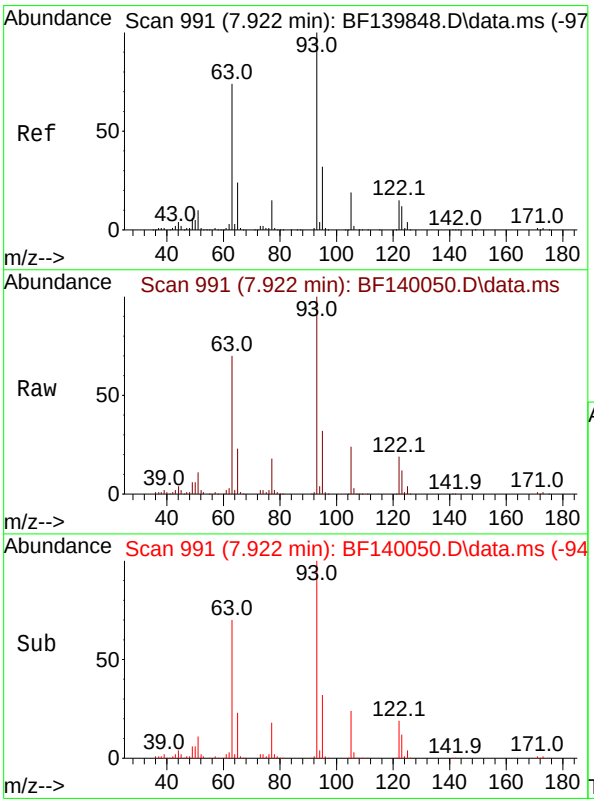
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.1	10.6	16.0

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

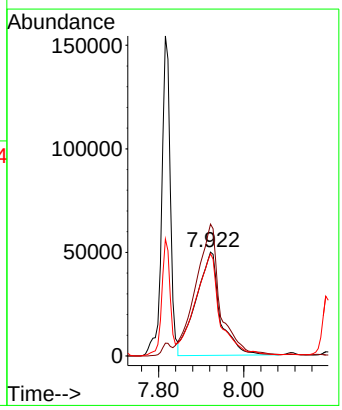


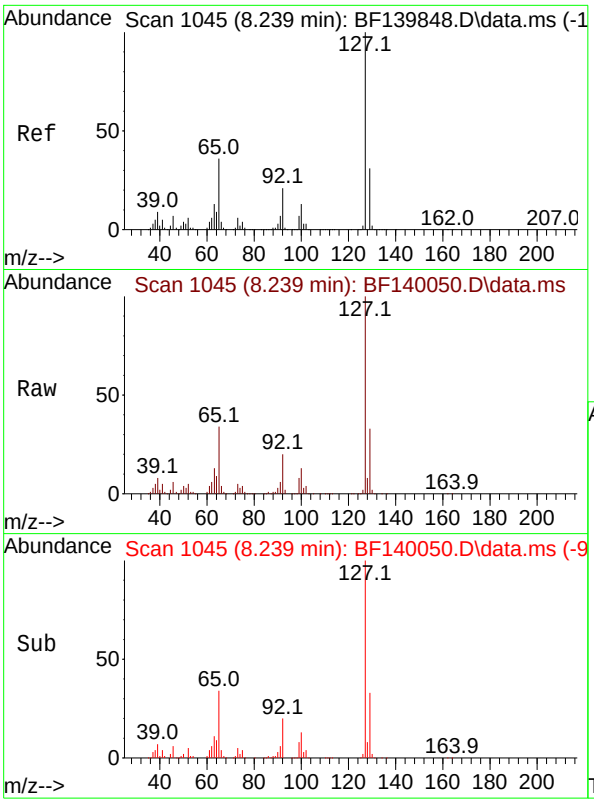


#32
Benzoic acid
Concen: 38.864 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:122 Resp: 196406

Ion	Ratio	Lower	Upper
122	100		
105	127.0	107.6	147.6
77	98.5	80.2	120.2

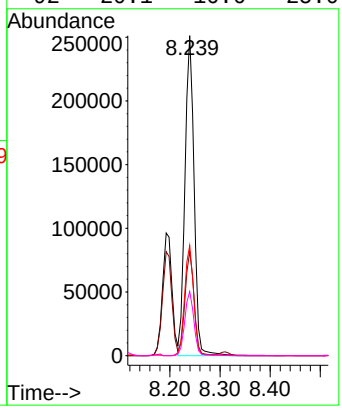




#33
4-Chloroaniline
Concen: 39.027 ng
RT: 8.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:127 Resp: 31957

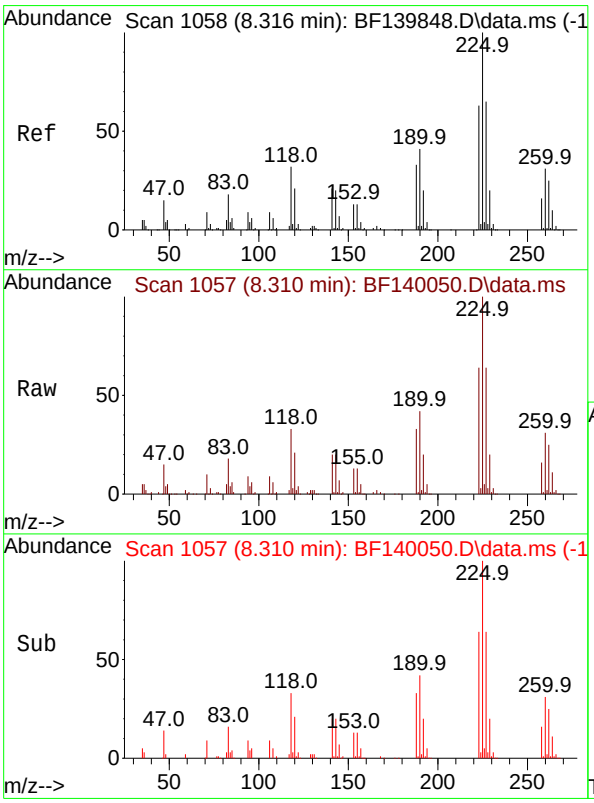
Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.4	38.2
65	34.5	28.4	42.6
92	20.1	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

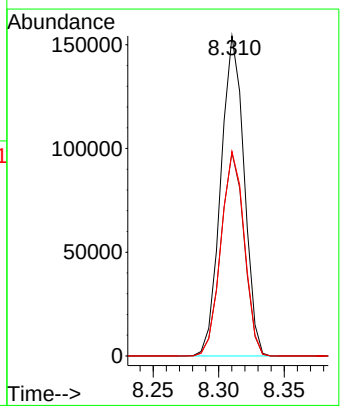
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

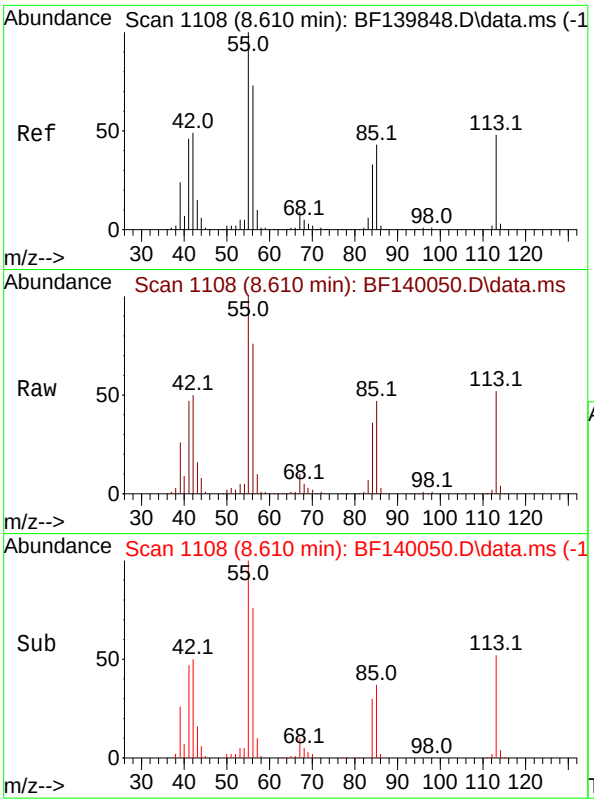


#34
Hexachlorobutadiene
Concen: 41.486 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:225 Resp: 190352

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.6	76.0
227	63.9	51.8	77.8





#35
Caprolactam
Concen: 39.090 ng
RT: 8.610 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

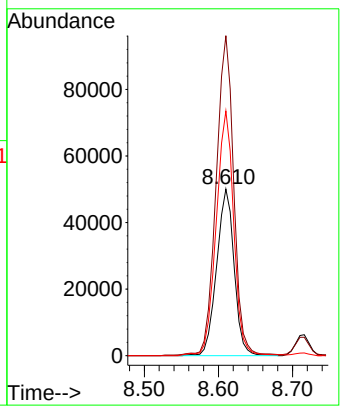
Tgt Ion:113 Resp: 8202

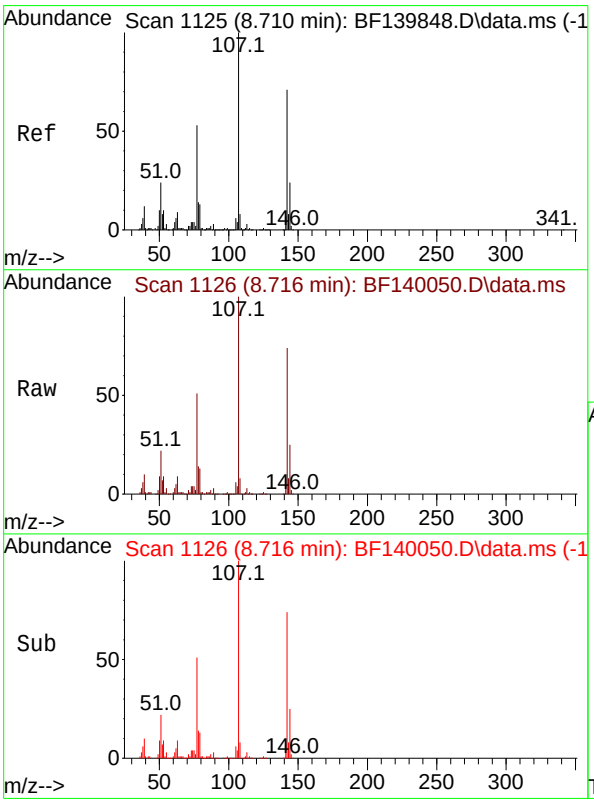
Ion	Ratio	Lower	Upper
113	100		
55	192.1	189.2	229.2
56	146.8	132.5	172.5

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

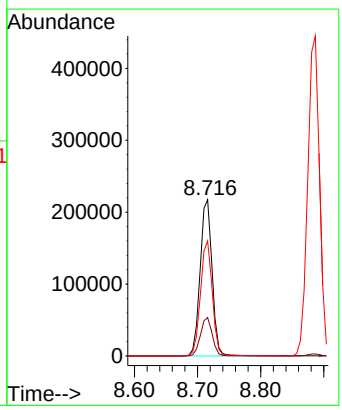


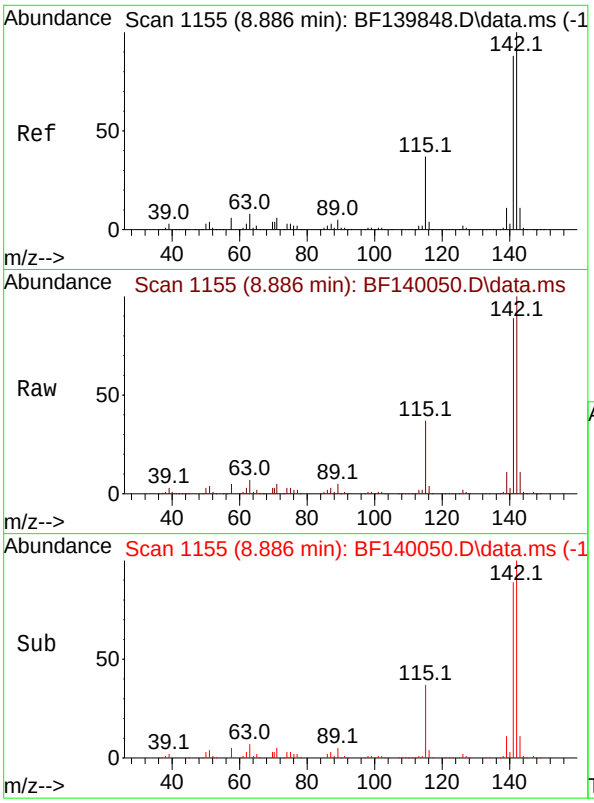


#36
4-Chloro-3-methylphenol
Concen: 39.183 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:107 Resp: 286338

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.1	28.7
142	73.6	57.2	85.8





#37
2-Methylnaphthalene
Concen: 39.160 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

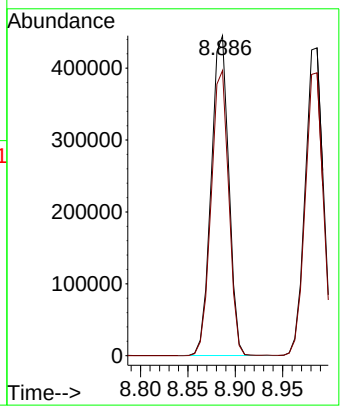
Tgt Ion:142 Resp: 57592

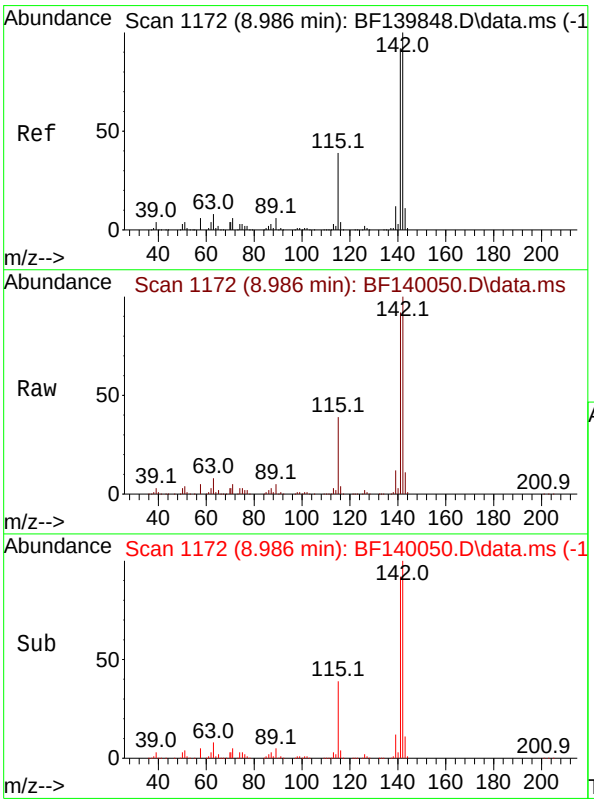
Ion	Ratio	Lower	Upper
142	100		
141	89.1	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

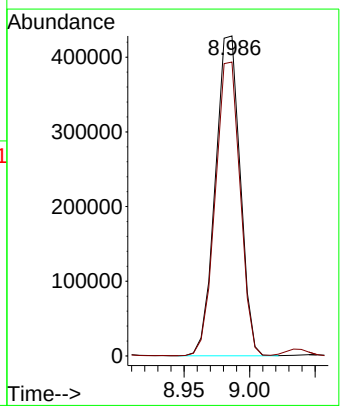


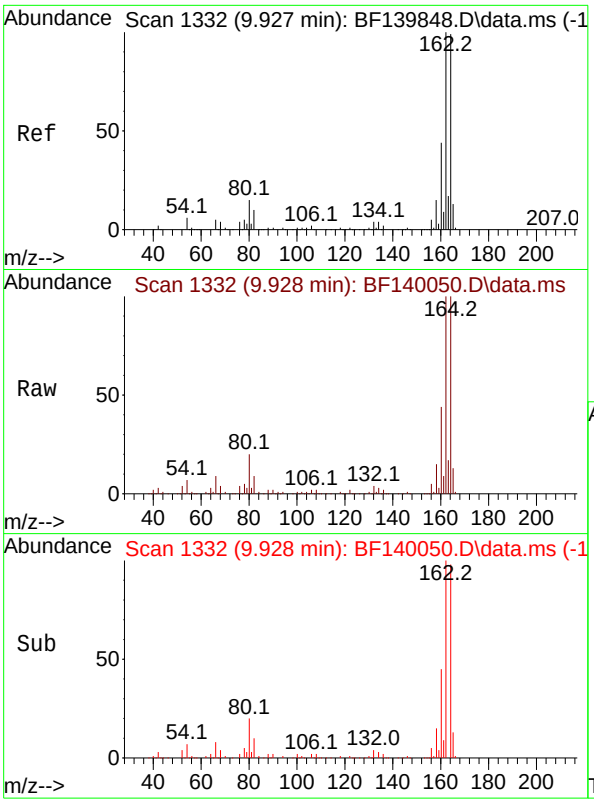


#38
1-Methylnaphthalene
Concen: 39.059 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:142 Resp: 563589

Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.5	110.3

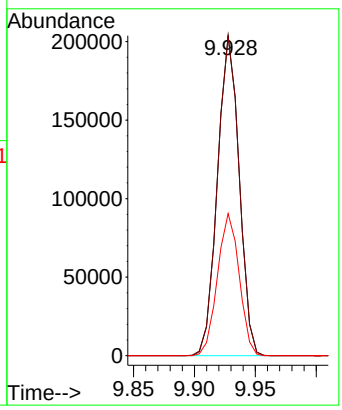




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:164 Resp: 25252

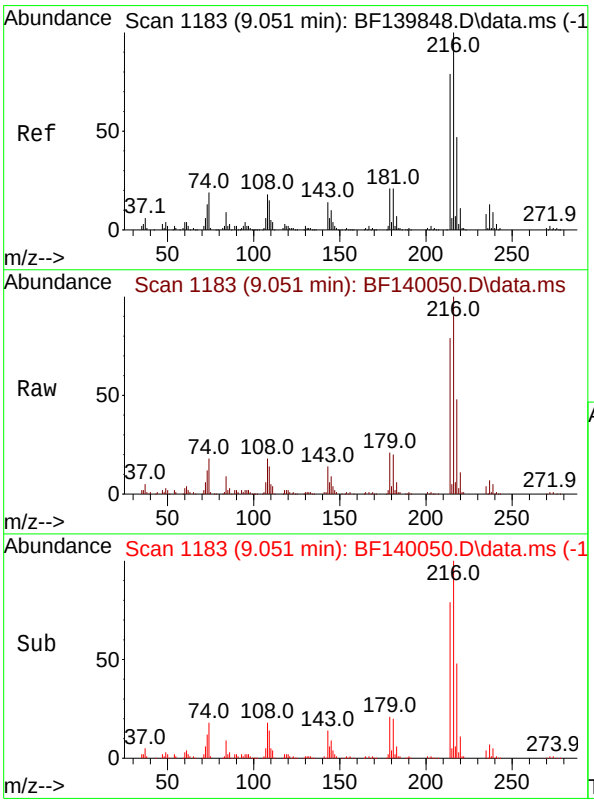
Ion	Ratio	Lower	Upper
164	100		
162	99.7	81.0	121.4
160	44.4	35.4	53.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

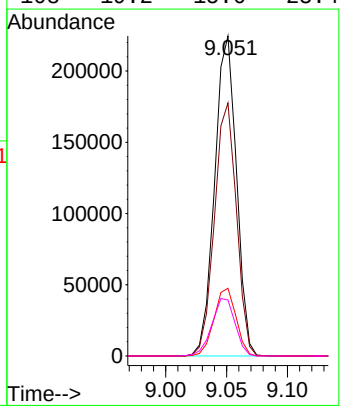
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

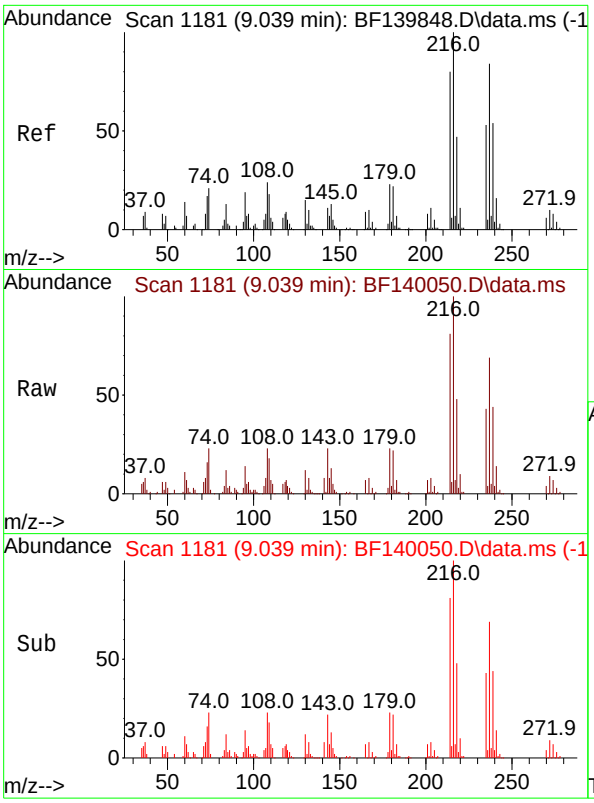


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.156 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:216 Resp: 280380

Ion	Ratio	Lower	Upper
216	100		
214	79.5	63.4	95.0
179	21.3	17.2	25.8
108	19.2	15.6	23.4





#41
Hexachlorocyclopentadiene
Concen: 40.599 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

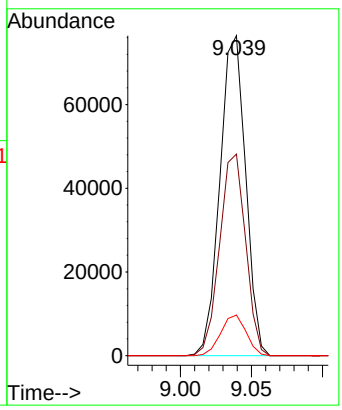
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

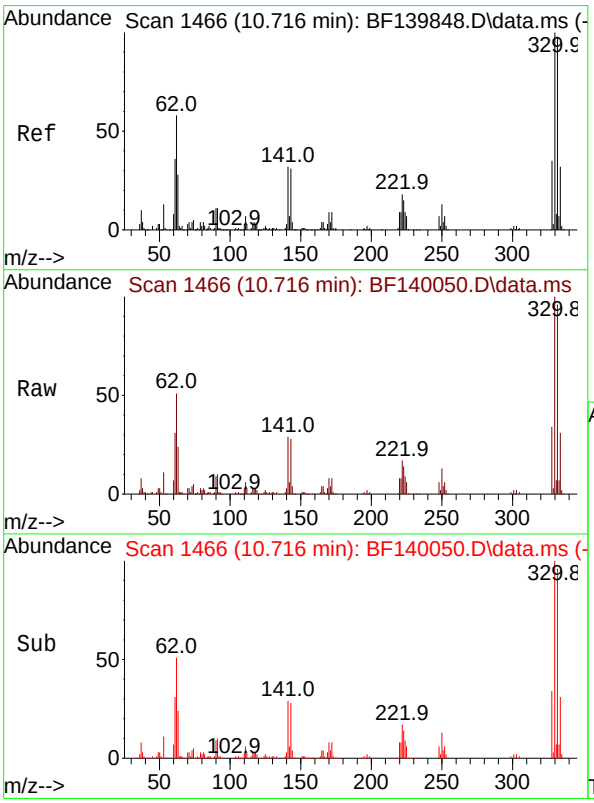
Tgt Ion:237 Resp: 9624

Ion	Ratio	Lower	Upper
237	100		
235	63.0	42.9	82.9
272	12.7	0.0	32.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

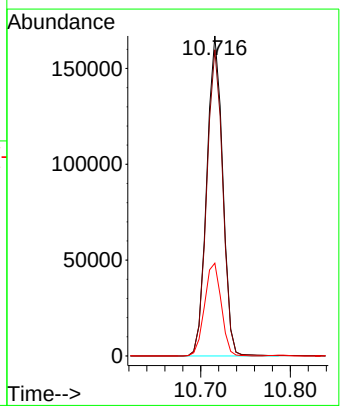


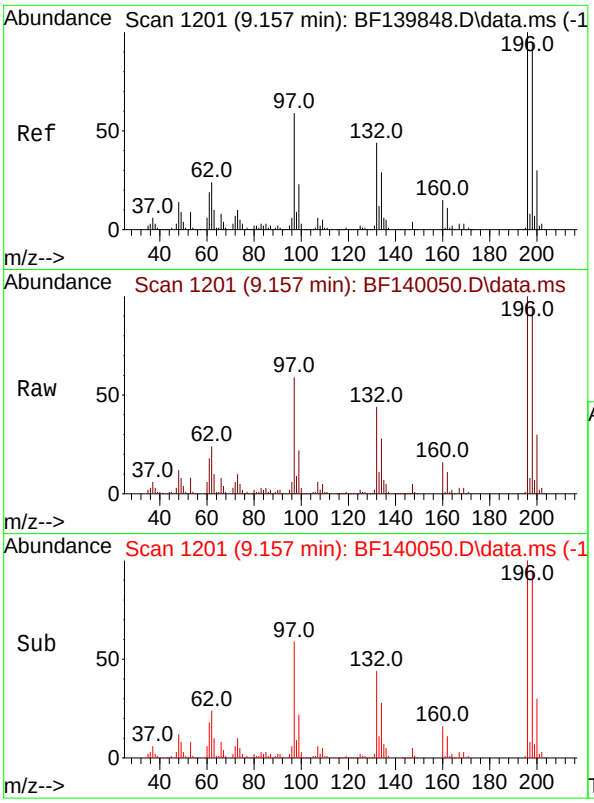


#42
2,4,6-Tribromophenol
Concen: 87.205 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:330 Resp: 205981

Ion	Ratio	Lower	Upper
330	100		
332	96.1	78.1	117.1
141	30.3	26.6	39.8





#43
2,4,6-Trichlorophenol
Concen: 39.204 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

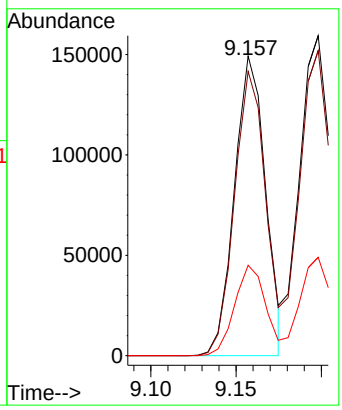
Tgt Ion:196 Resp: 18909

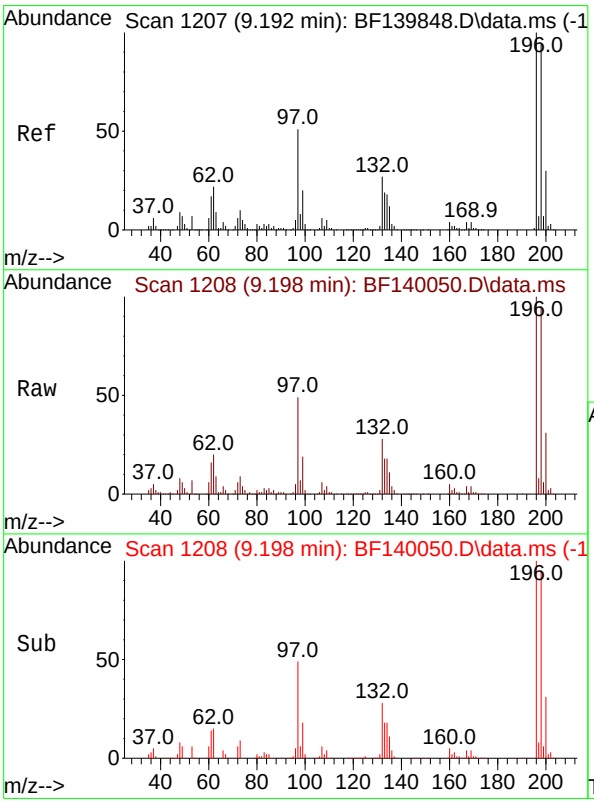
Ion	Ratio	Lower	Upper
196	100		
198	94.9	76.2	114.2
200	30.2	24.0	36.0

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

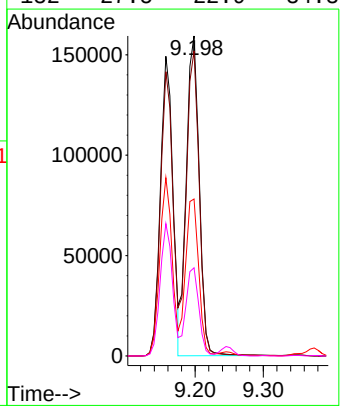


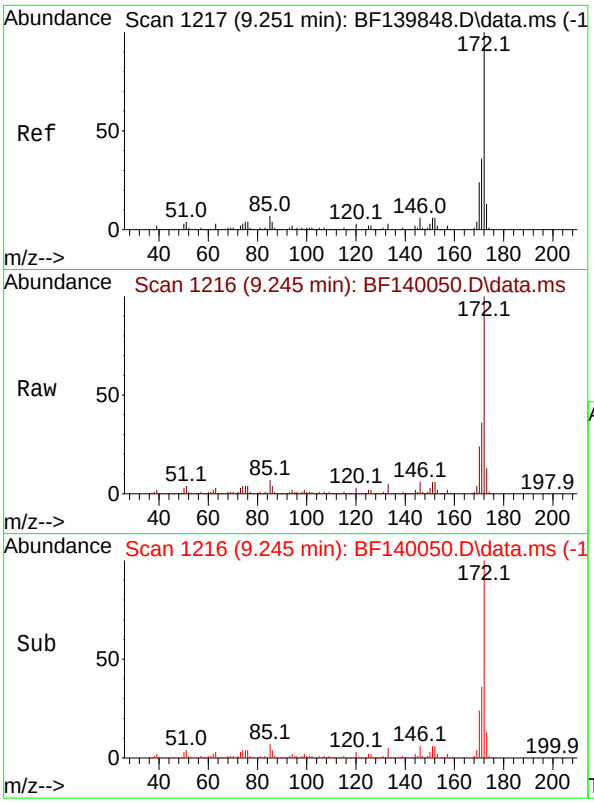


#44
2,4,5-Trichlorophenol
Concen: 42.019 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:196 Resp: 209100

Ion	Ratio	Lower	Upper
196	100		
198	95.3	75.8	113.6
97	49.0	41.8	62.6
132	27.5	22.9	34.3

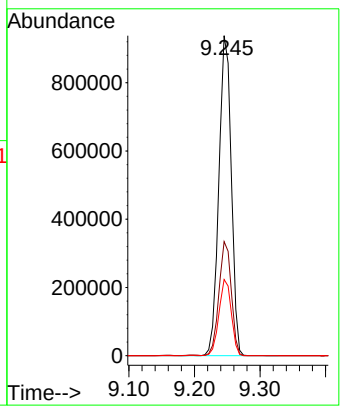




#45
2-Fluorobiphenyl
Concen: 80.059 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:172 Resp: 122325

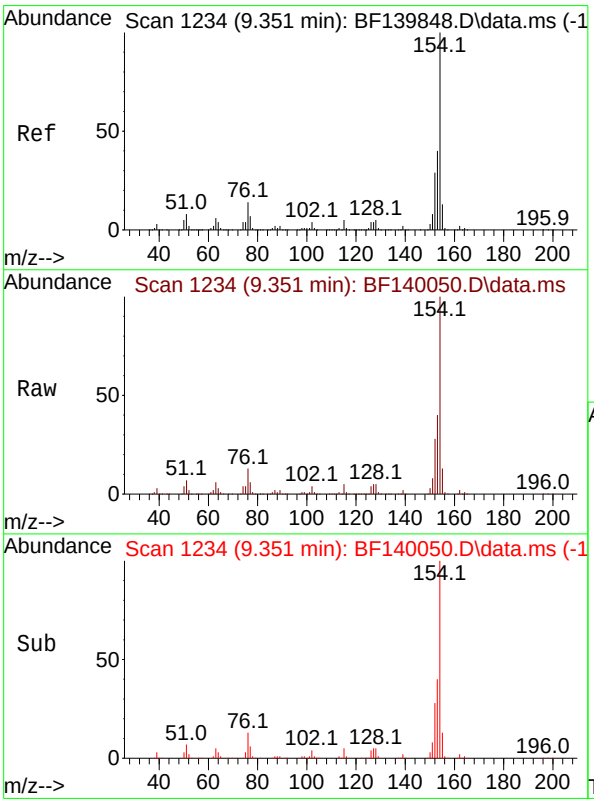
Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	23.8	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

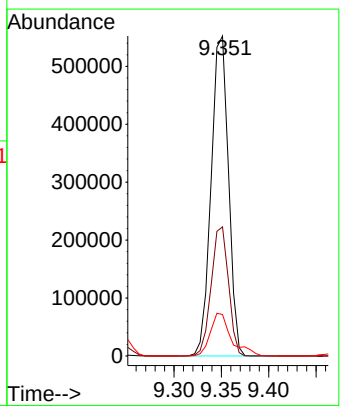
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

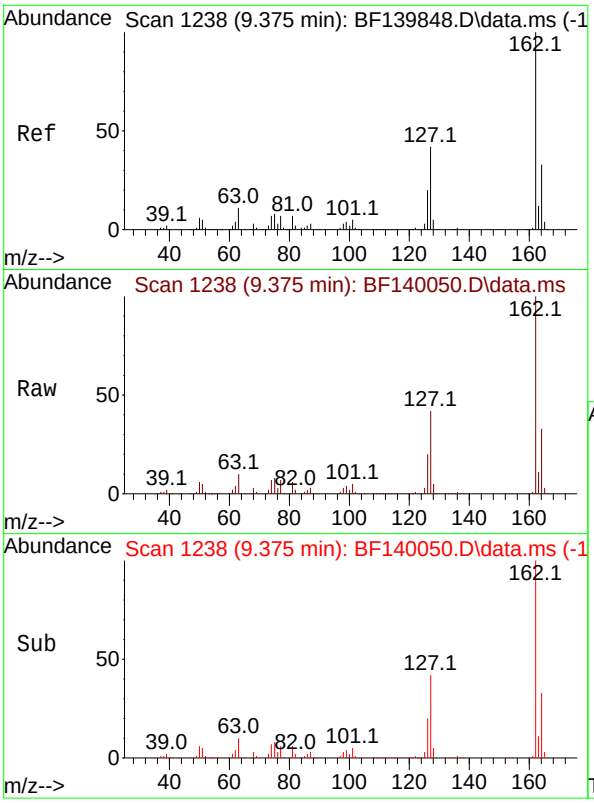


#46
1,1'-Biphenyl
Concen: 39.976 ng
RT: 9.351 min Scan# 1234
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:154 Resp: 702753

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.3	60.3
76	12.9	0.0	33.9

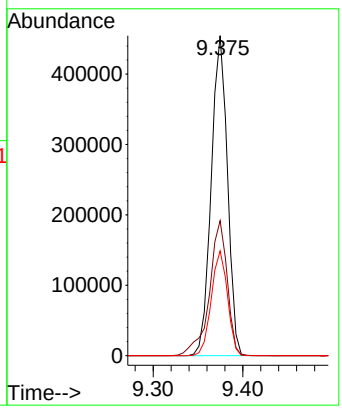




#47
2-Chloronaphthalene
Concen: 40.256 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:162 Resp: 56996

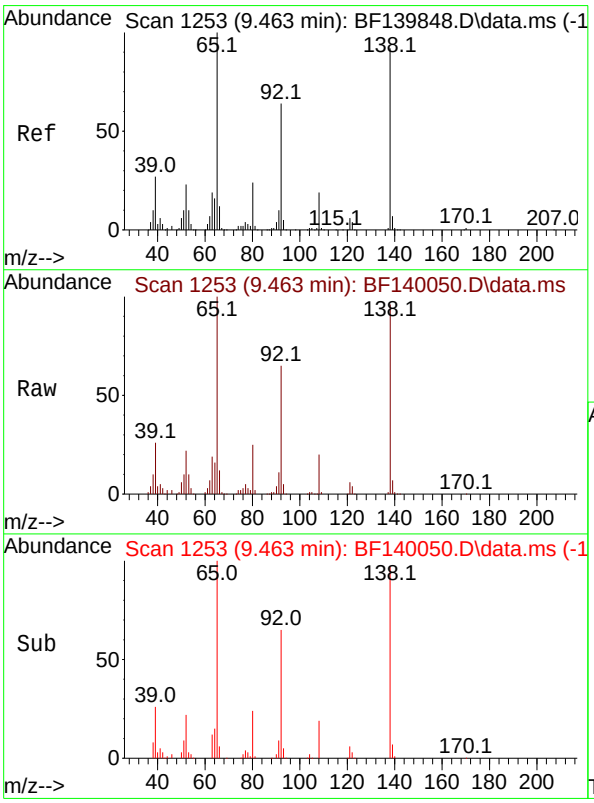
Ion	Ratio	Lower	Upper
162	100		
127	42.2	33.8	50.6
164	32.7	26.6	39.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

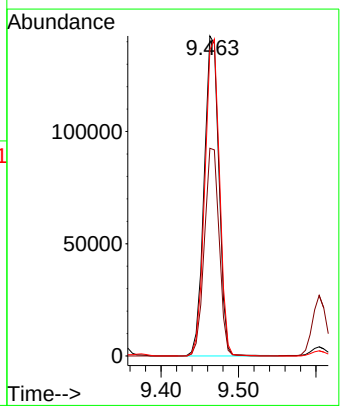
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

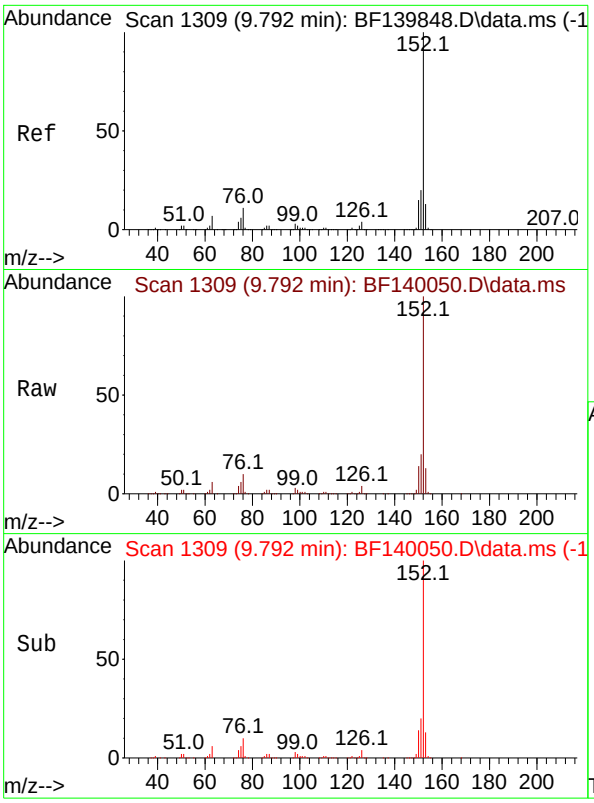


#48
2-Nitroaniline
Concen: 43.726 ng
RT: 9.463 min Scan# 1253
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion: 65 Resp: 189346

Ion	Ratio	Lower	Upper
65	100		
92	64.9	50.9	76.3
138	95.6	73.4	110.0





#49
Acenaphthylene
Concen: 40.178 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

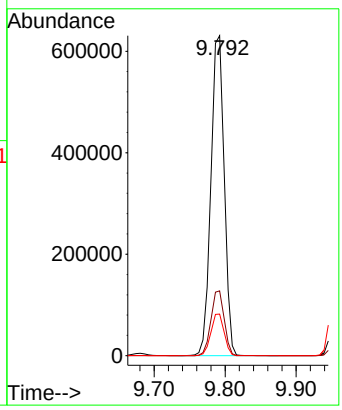
Tgt Ion:152 Resp: 82240

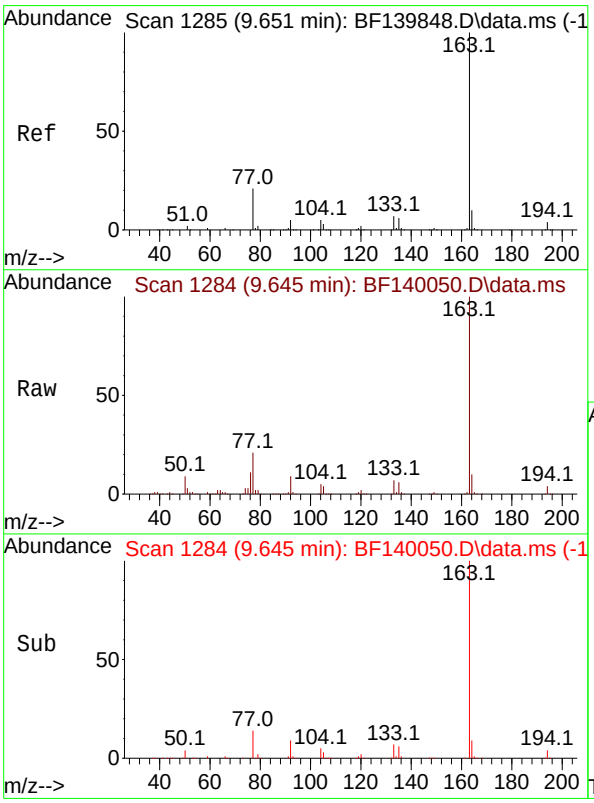
Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.9	23.9
153	13.0	10.7	16.1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

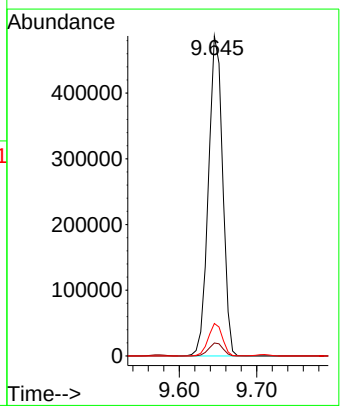


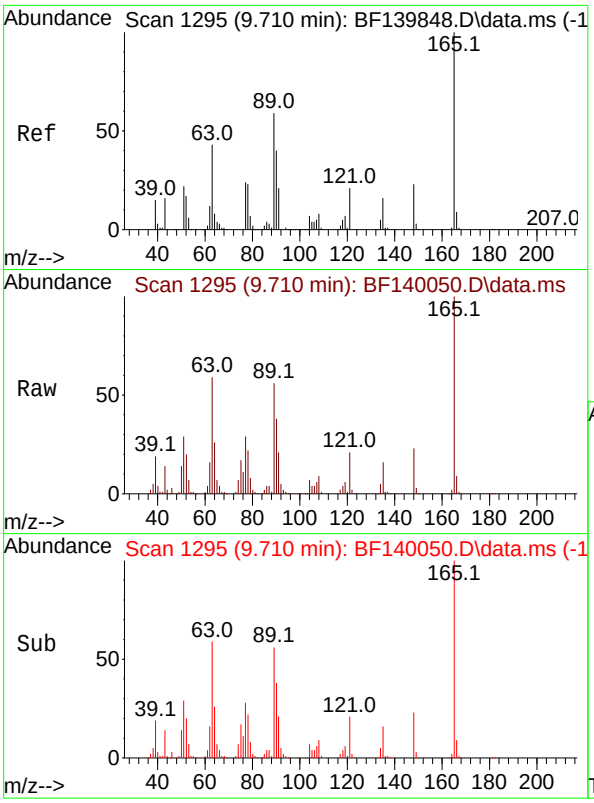


#50
Dimethylphthalate
Concen: 39.467 ng
RT: 9.645 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:163 Resp: 620788

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 43.043 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

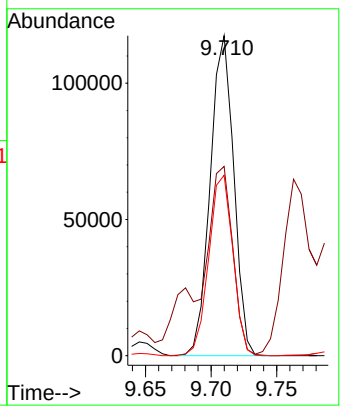
Tgt Ion:165 Resp: 14659

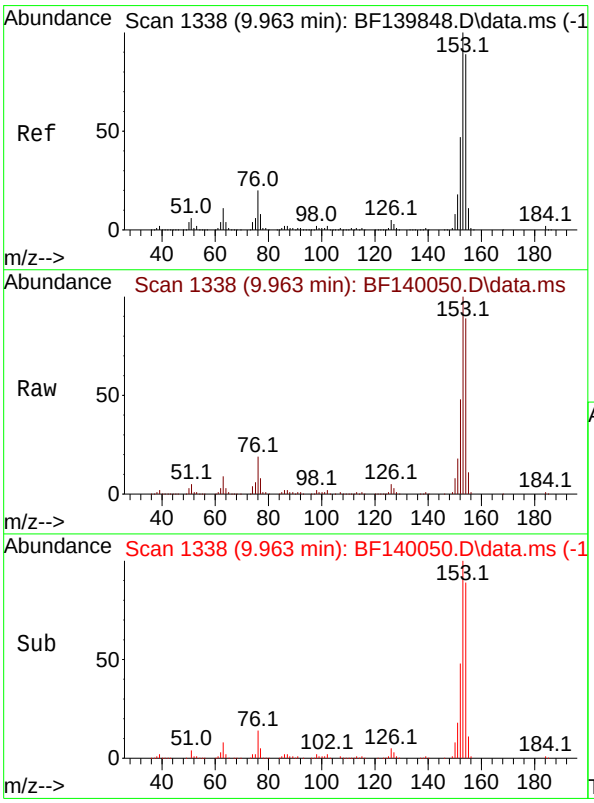
Ion	Ratio	Lower	Upper
165	100		
63	59.2	50.6	75.8
89	56.4	47.5	71.3

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

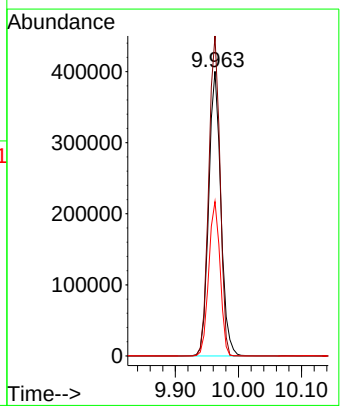


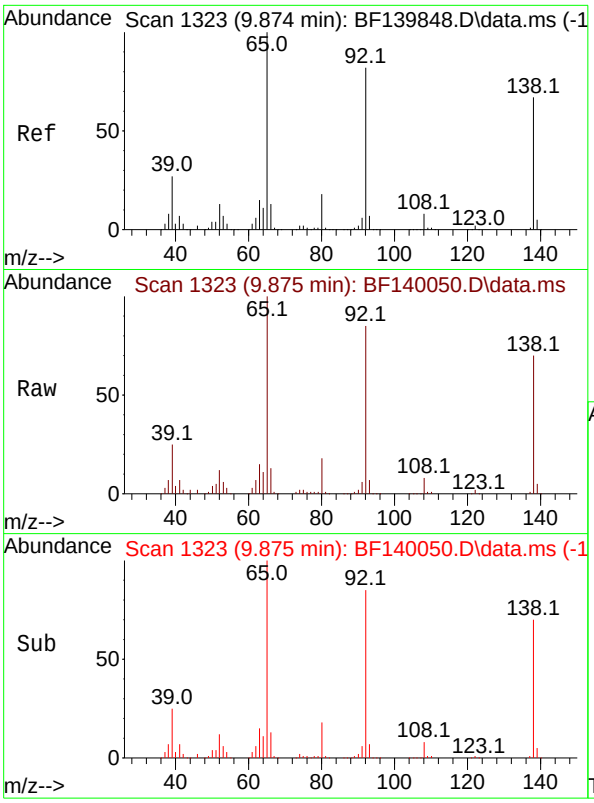


#52
Acenaphthene
Concen: 40.337 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:154 Resp: 534118

Ion	Ratio	Lower	Upper
154	100		
153	112.4	89.8	134.6
152	54.2	42.4	63.6





#53
3-Nitroaniline
Concen: 42.788 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

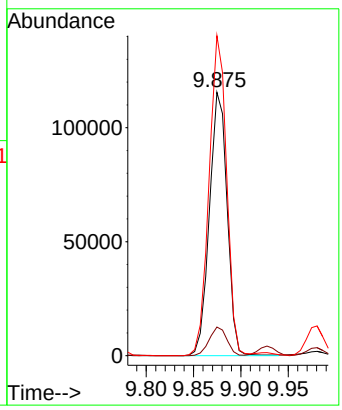
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

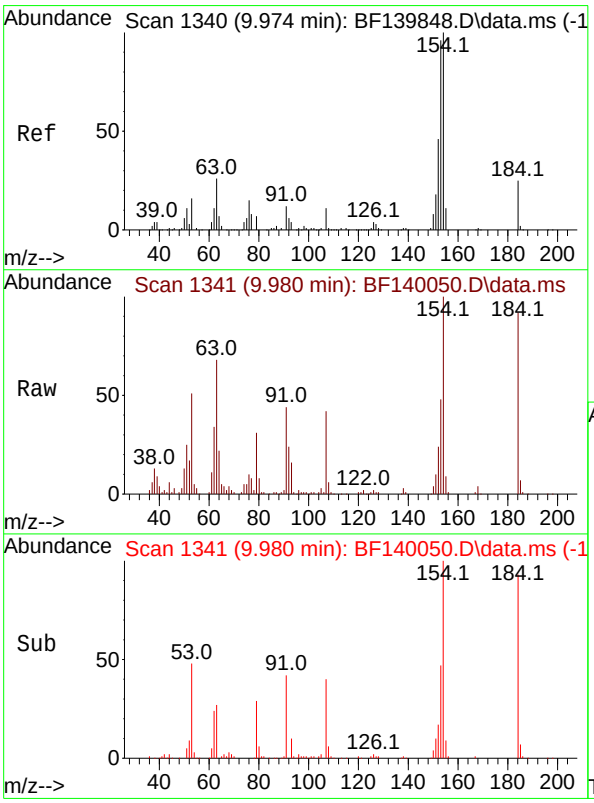
Tgt Ion:138 Resp: 15027

Ion	Ratio	Lower	Upper
138	100		
108	10.9	10.2	15.2
92	121.5	98.3	147.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

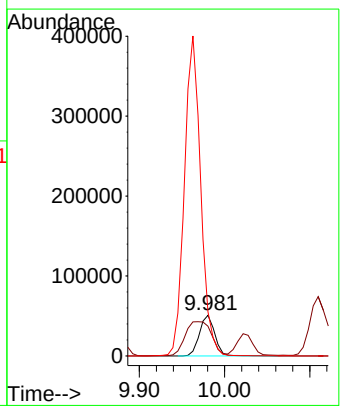


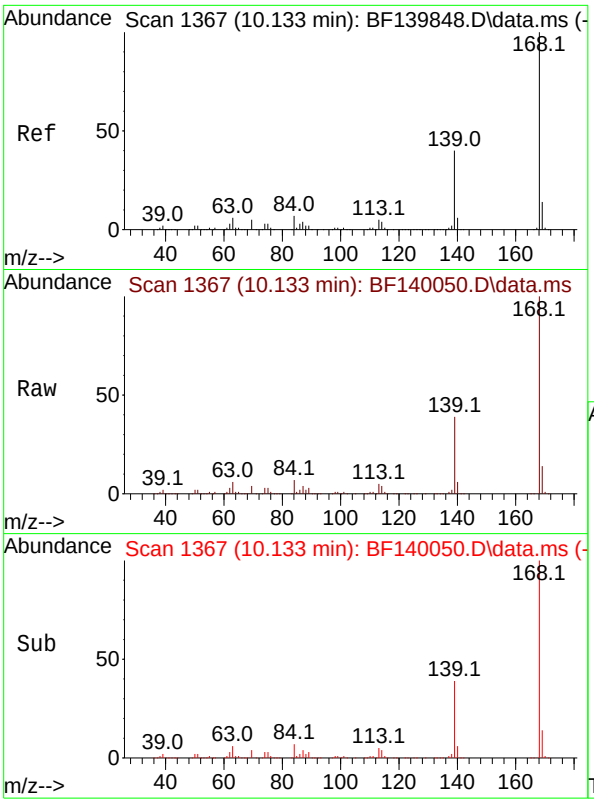


#54
2,4-Dinitrophenol
Concen: 47.791 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:184 Resp: 63575

Ion	Ratio	Lower	Upper
184	100		
63	73.3	84.7	127.1#
154	108.4	338.2	507.2#





#55
Dibenzofuran
Concen: 39.650 ng
RT: 10.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

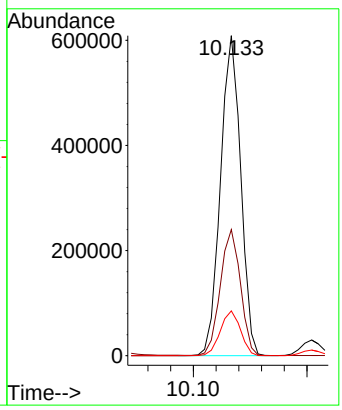
Tgt Ion:168 Resp: 75327

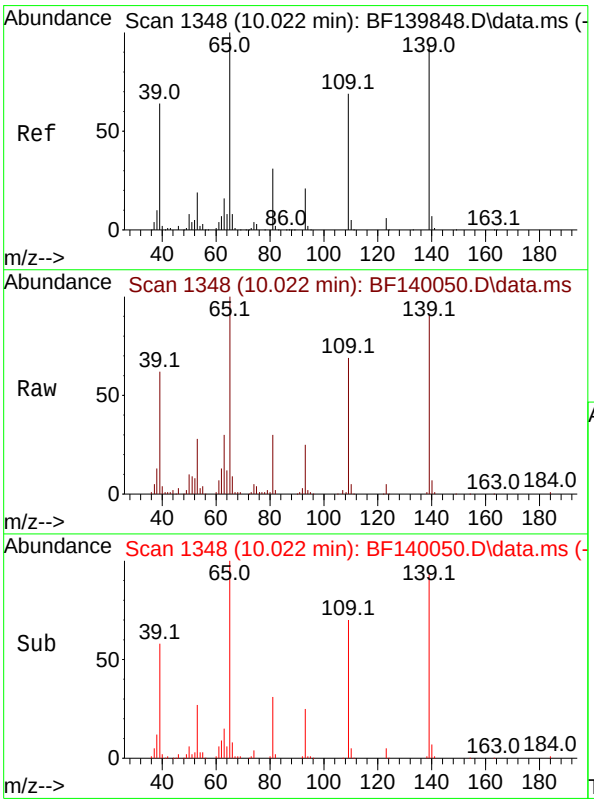
Ion	Ratio	Lower	Upper
168	100		
139	39.4	31.8	47.6
169	14.0	11.6	17.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

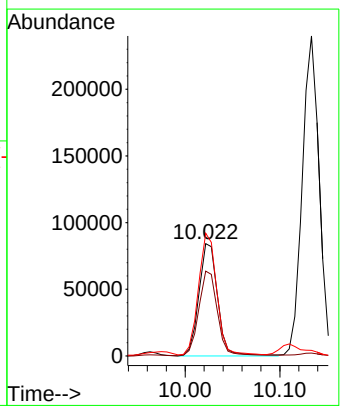


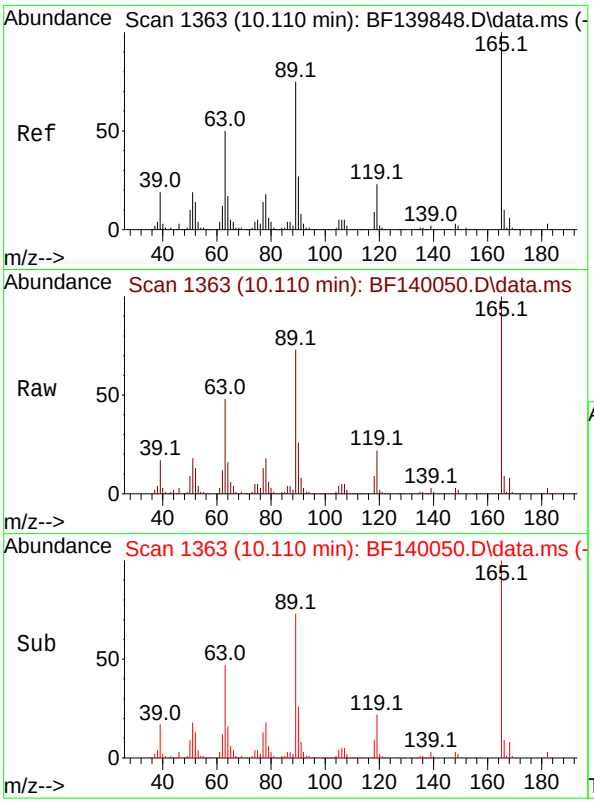


#56
4-Nitrophenol
Concen: 42.861 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:139 Resp: 115811

Ion	Ratio	Lower	Upper
139	100		
109	75.6	53.6	93.6
65	109.4	87.8	127.8

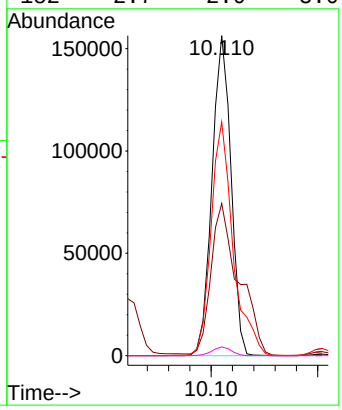




#57
2,4-Dinitrotoluene
Concen: 46.215 ng
RT: 10.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:165 Resp: 19355

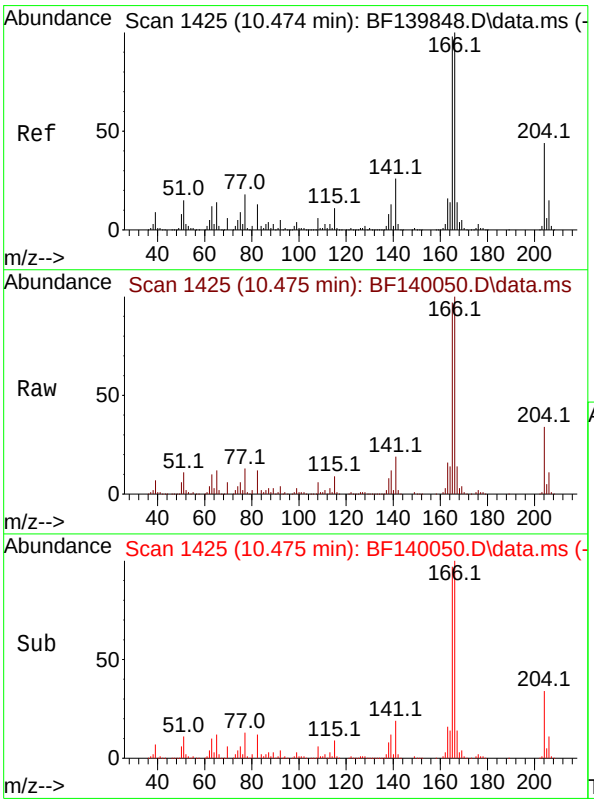
Ion	Ratio	Lower	Upper
165	100		
63	47.6	40.1	60.1
89	73.1	60.4	90.6
182	2.7	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

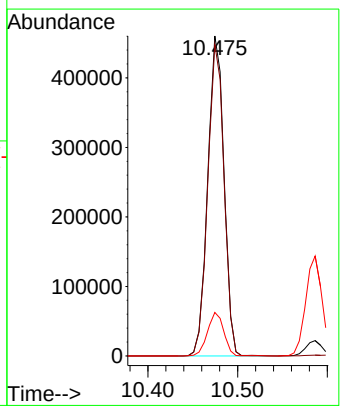
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

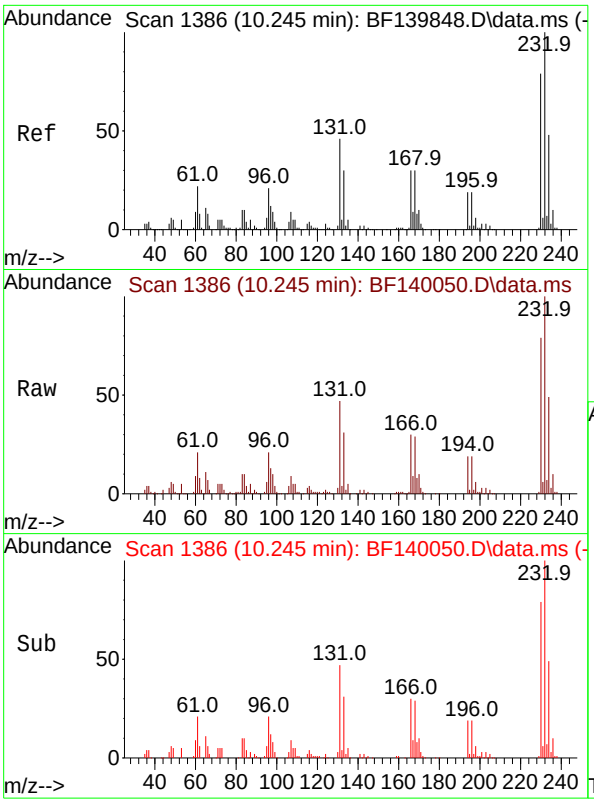


#58
Fluorene
Concen: 40.101 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:166 Resp: 580262

Ion	Ratio	Lower	Upper
166	100		
165	97.3	78.5	117.7
167	13.6	10.9	16.3

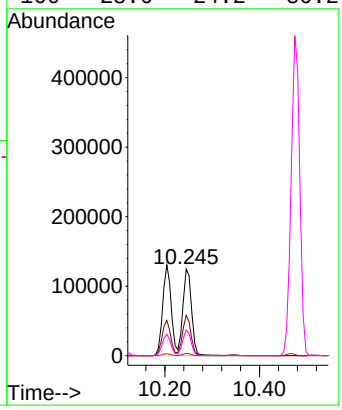




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.748 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:232 Resp: 15896

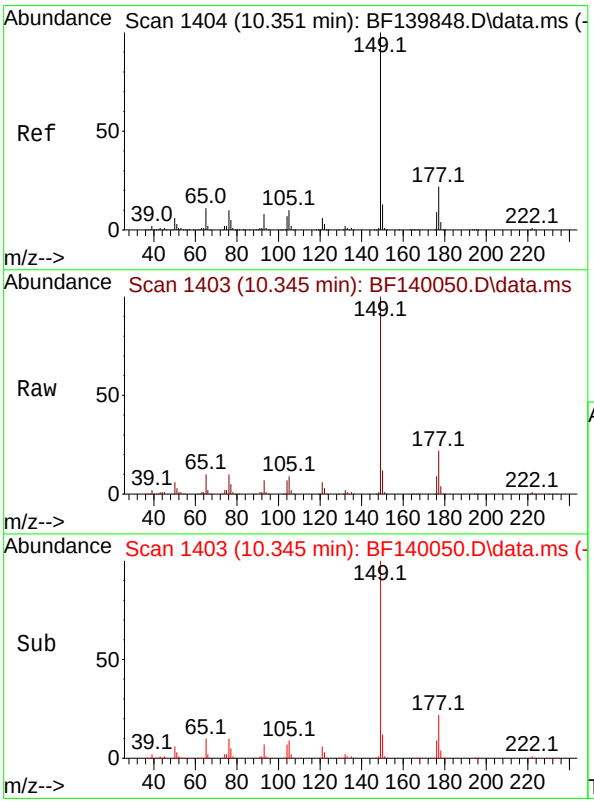
Ion	Ratio	Lower	Upper
232	100		
131	45.4	37.0	55.6
130	2.6	1.9	2.9
166	28.6	24.2	36.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

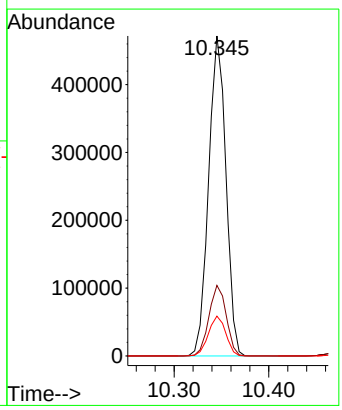
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

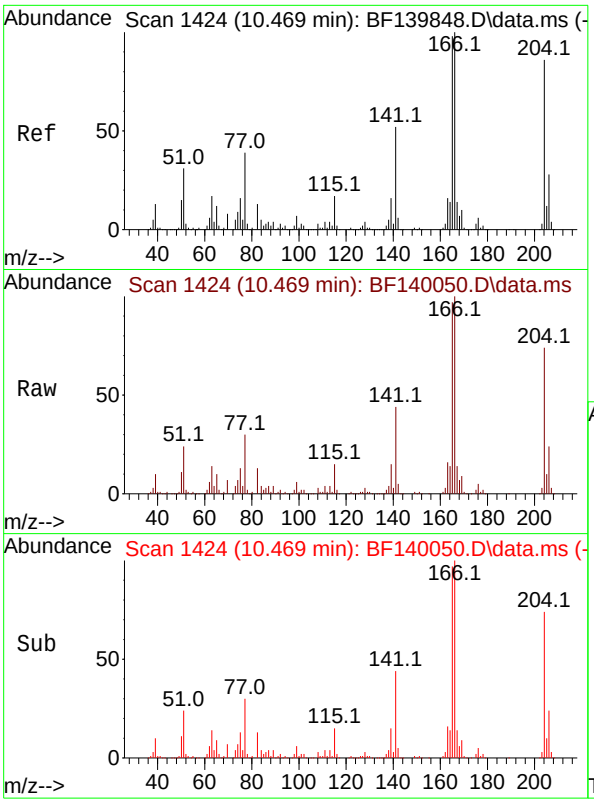


#60
Diethylphthalate
Concen: 38.622 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:149 Resp: 596467

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.9	26.9
150	12.5	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 40.136 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

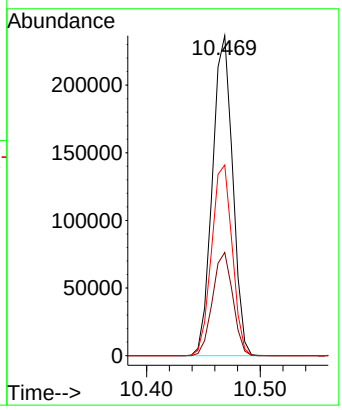
Tgt Ion:204 Resp: 29329

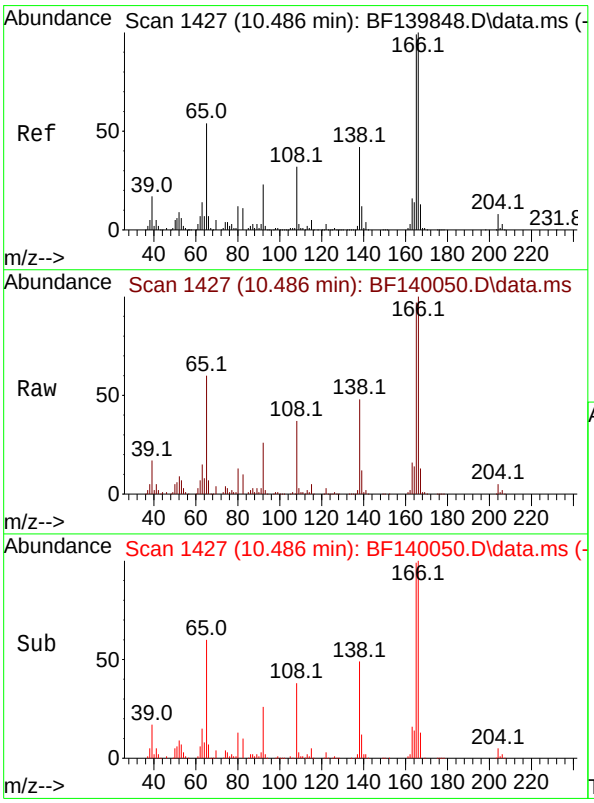
Ion	Ratio	Lower	Upper
204	100		
206	32.2	26.3	39.5
141	59.6	48.6	73.0

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

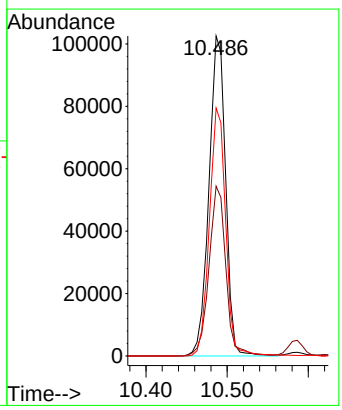


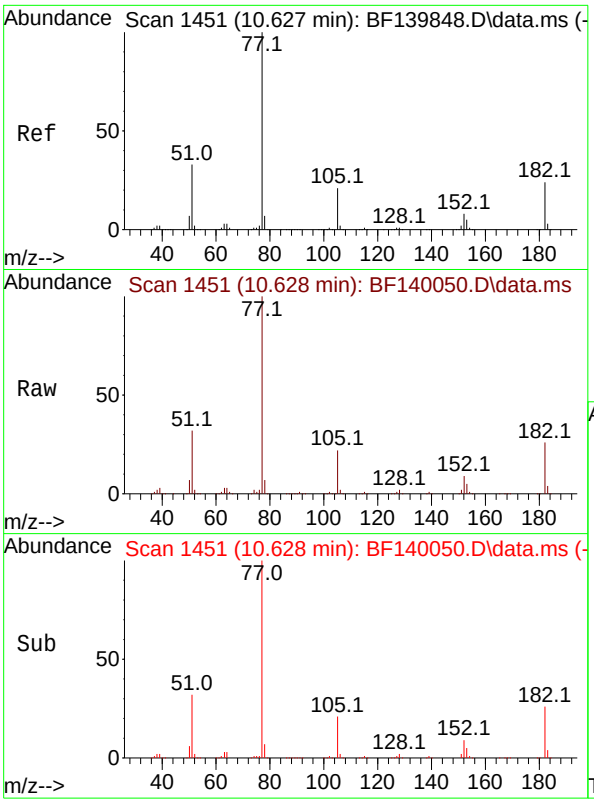


#62
4-Nitroaniline
Concen: 44.006 ng
RT: 10.486 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:138 Resp: 145969

Ion	Ratio	Lower	Upper
138	100		
92	53.0	35.7	75.7
108	77.5	57.5	97.5





#63
Azobenzene
Concen: 36.919 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

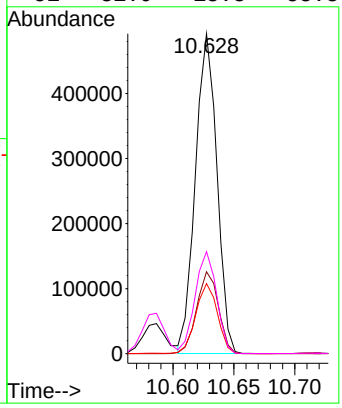
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

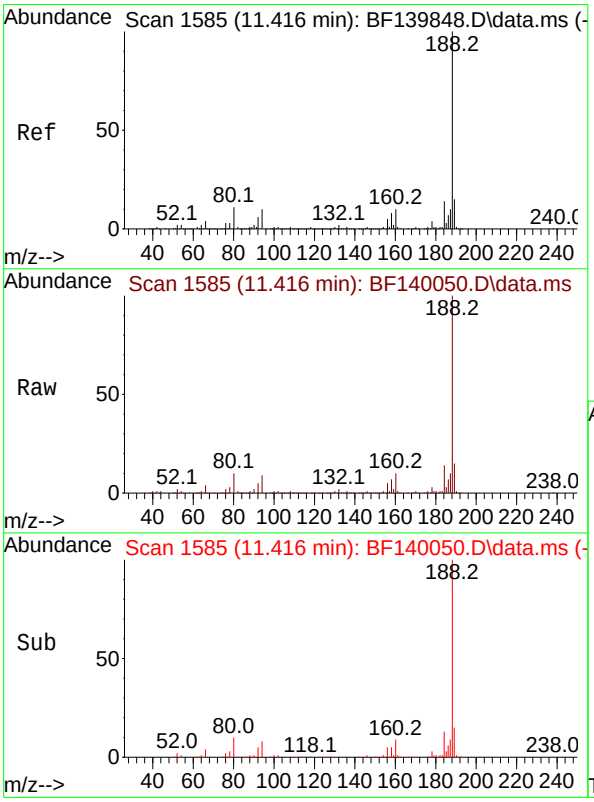
Tgt Ion: 77 Resp: 60446

Ion	Ratio	Lower	Upper
77	100		
182	25.6	3.3	43.3
105	21.9	1.2	41.2
51	31.9	13.3	53.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

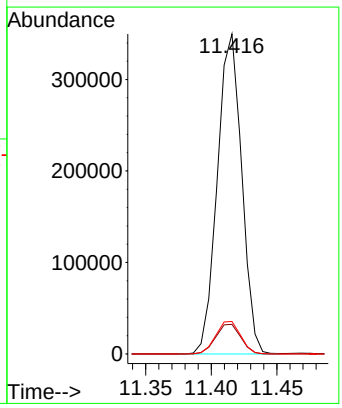


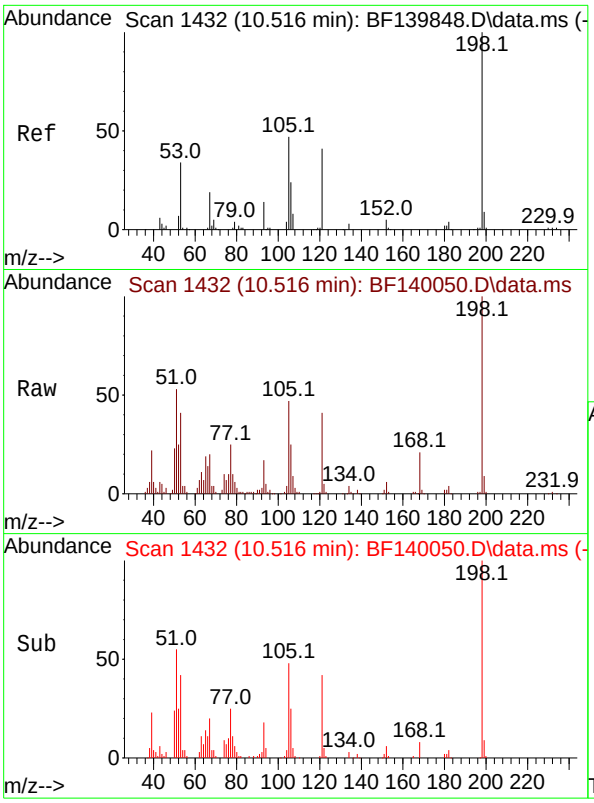


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:188 Resp: 452033

Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.9	11.9
80	10.1	9.0	13.4





#65
4,6-Dinitro-2-methylphenol
Concen: 51.213 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

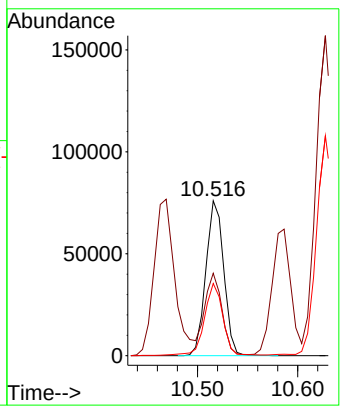
Tgt Ion:198 Resp: 9442

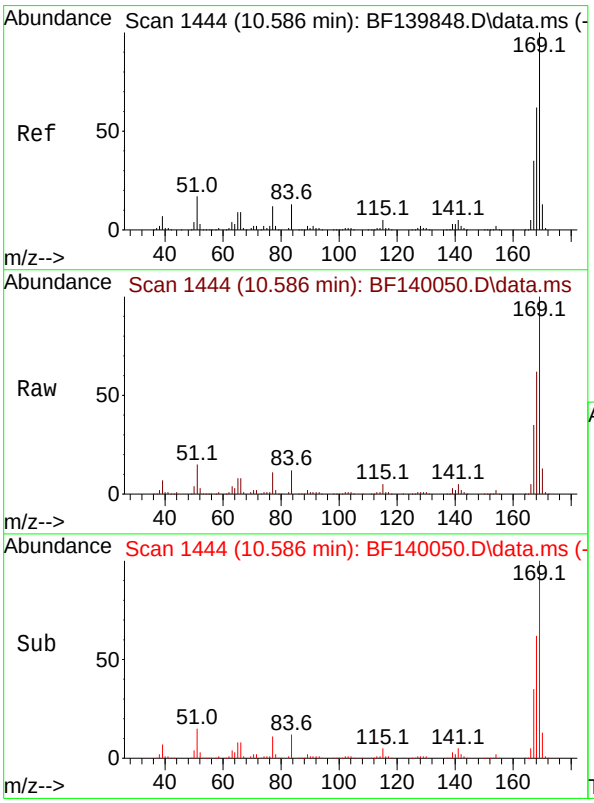
Ion	Ratio	Lower	Upper
198	100		
51	53.2	38.2	78.2
105	46.5	27.9	67.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

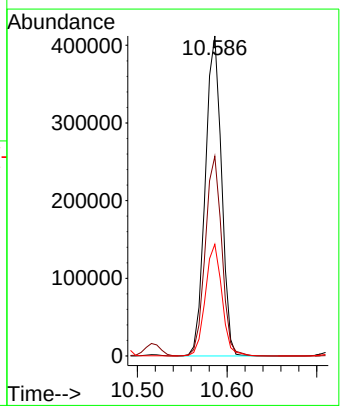


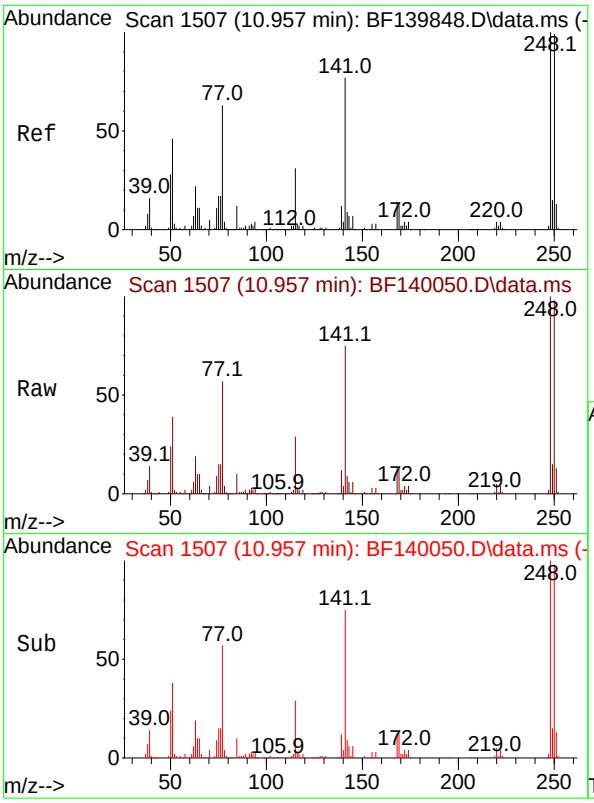


#66
n-Nitrosodiphenylamine
Concen: 38.193 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:169 Resp: 516725

Ion	Ratio	Lower	Upper
169	100		
168	62.4	49.8	74.6
167	34.9	28.0	42.0





#67
4-Bromophenyl-phenylether
Concen: 39.222 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

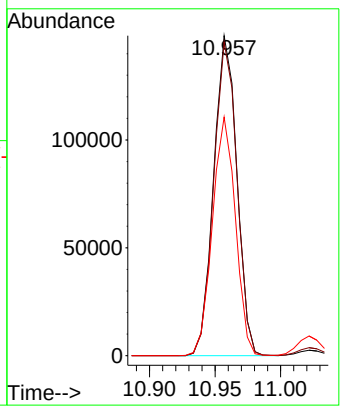
Tgt Ion:248 Resp: 18265

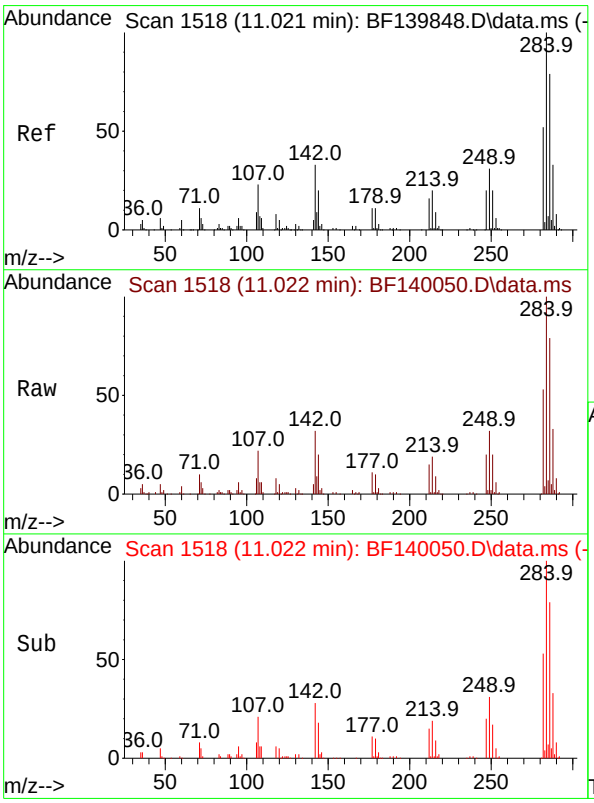
Ion	Ratio	Lower	Upper
248	100		
250	97.9	79.0	118.6
141	74.5	61.7	92.5

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

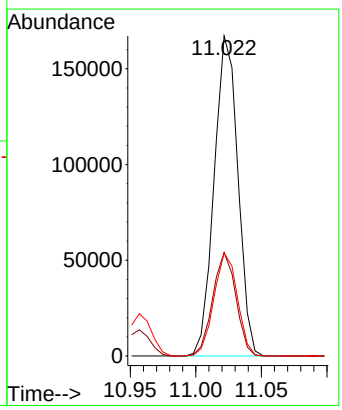


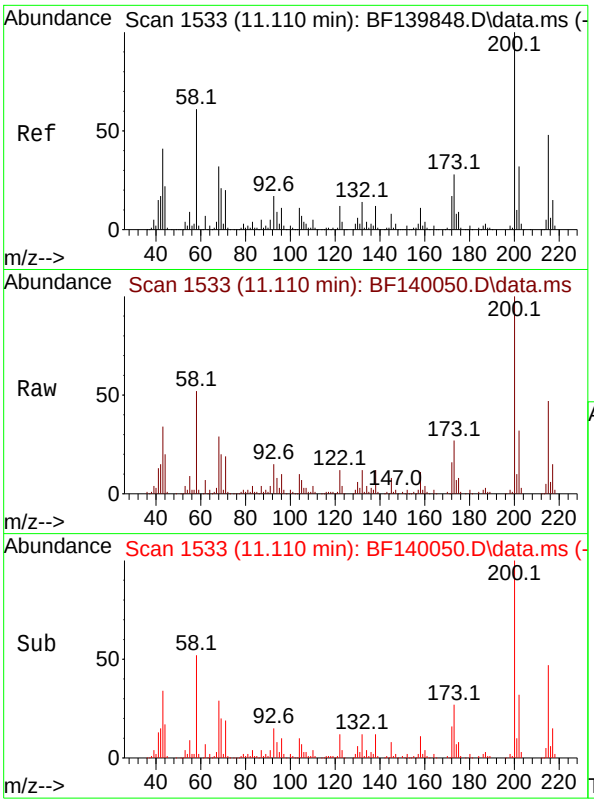


#68
Hexachlorobenzene
Concen: 40.149 ng
RT: 11.022 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:284 Resp: 210271

Ion	Ratio	Lower	Upper
284	100		
142	32.4	26.9	40.3
249	32.2	25.3	37.9





#69
Atrazine
Concen: 38.590 ng
RT: 11.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

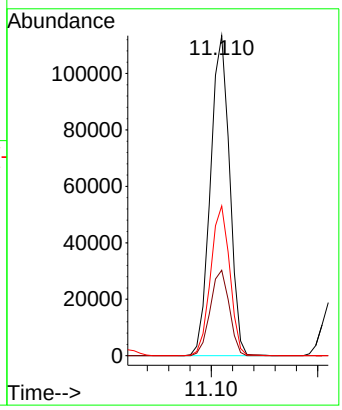
Tgt Ion:200 Resp: 14142

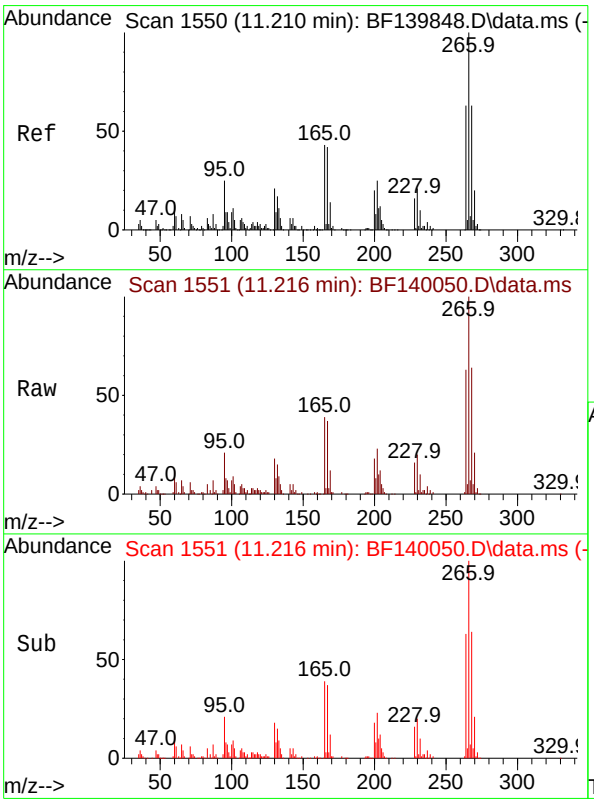
Ion	Ratio	Lower	Upper
200	100		
173	26.7	7.7	47.7
215	46.8	27.7	67.7

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

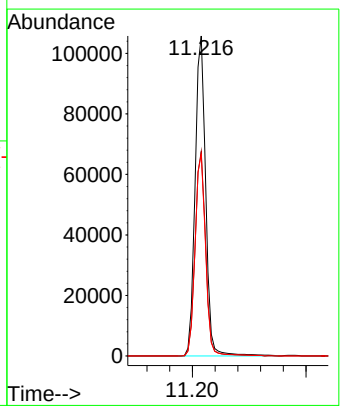


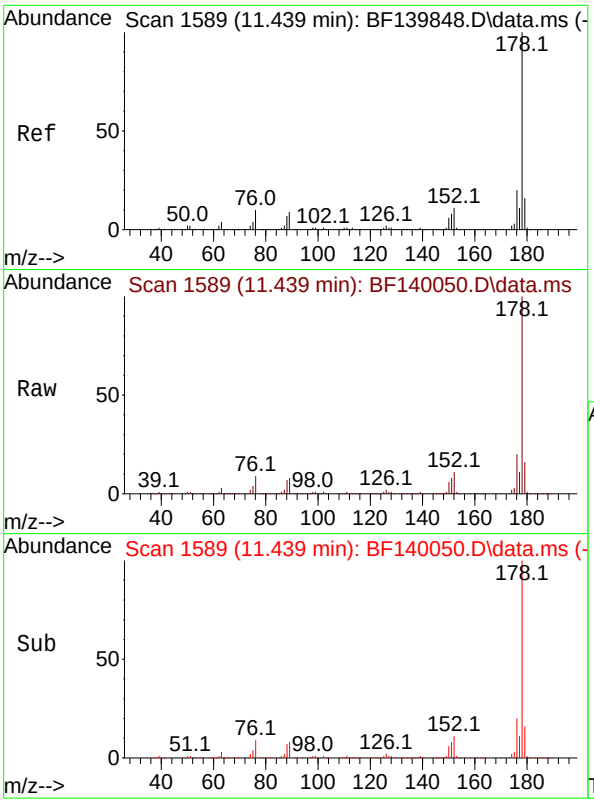


#70
Pentachlorophenol
Concen: 43.242 ng
RT: 11.216 min Scan# 1551
Delta R.T. 0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:266 Resp: 137449

Ion	Ratio	Lower	Upper
266	100		
268	63.9	50.4	75.6
264	63.1	50.6	75.8





#71
Phenanthrene
Concen: 38.651 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

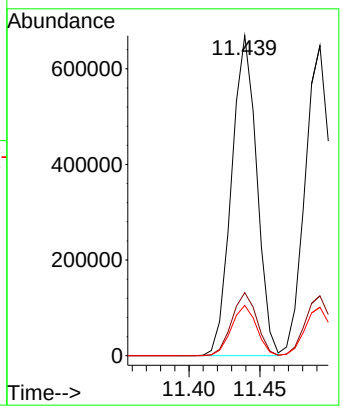
Tgt Ion:178 Resp: 82527

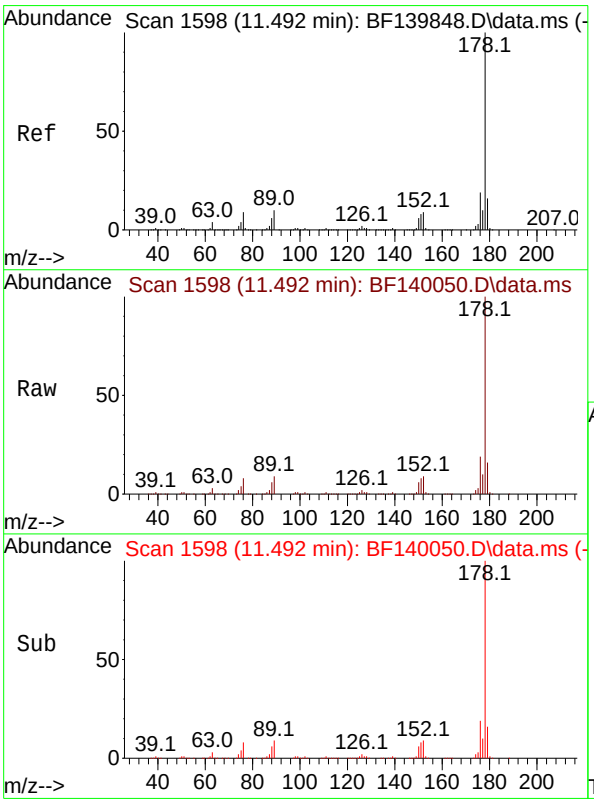
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.6
179	15.7	12.6	18.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

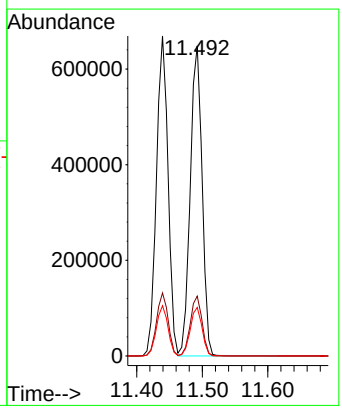


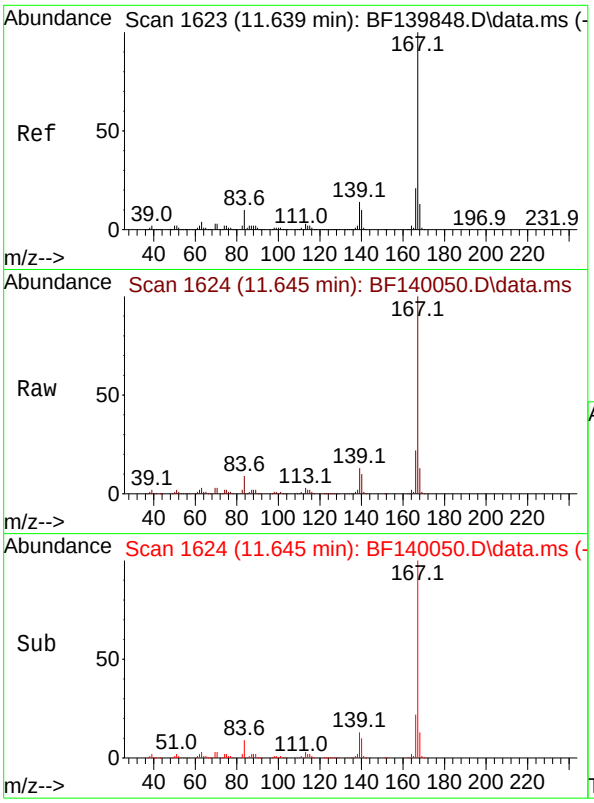


#72
Anthracene
Concen: 39.105 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:178 Resp: 814682

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.6	12.4	18.6

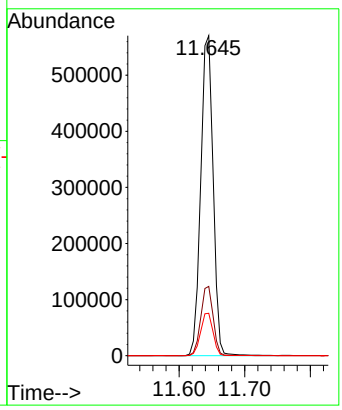




#73
Carbazole
Concen: 38.824 ng
RT: 11.645 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:167 Resp: 75222

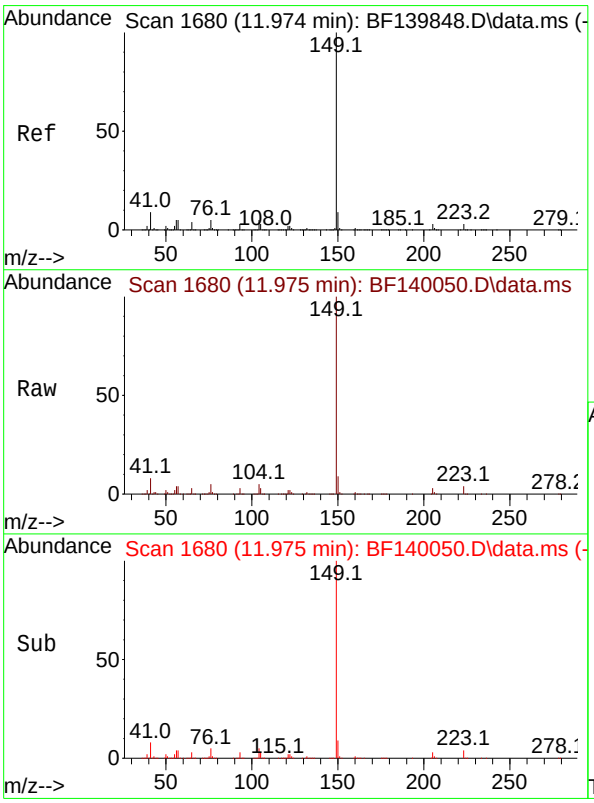
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.0	25.6
139	13.3	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

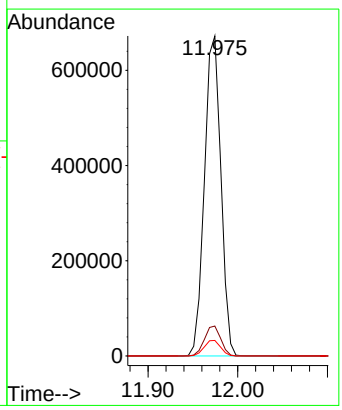
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

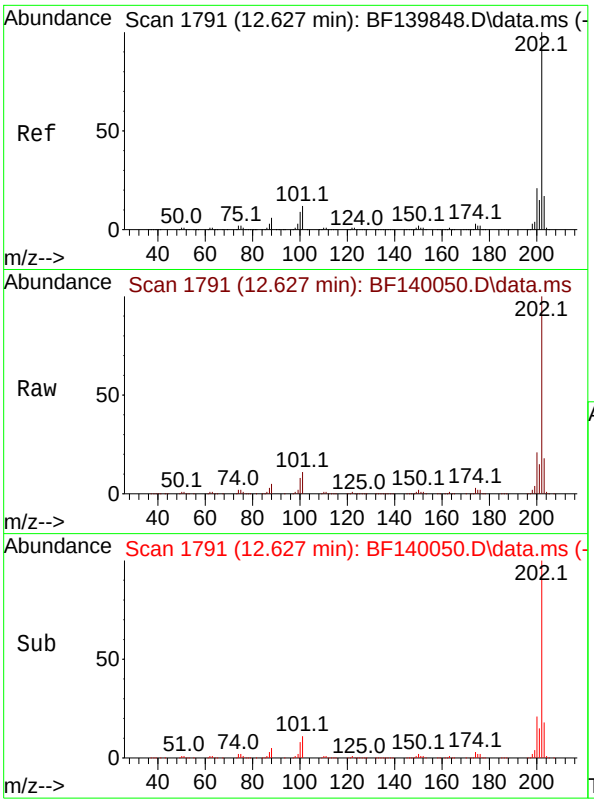


#74
Di-n-butylphthalate
Concen: 38.208 ng
RT: 11.975 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:149 Resp: 855272

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.5	11.3
104	4.8	4.1	6.1





#75
Fluoranthene
Concen: 40.418 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

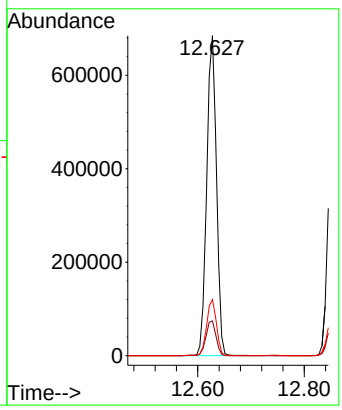
Tgt Ion:202 Resp: 87242

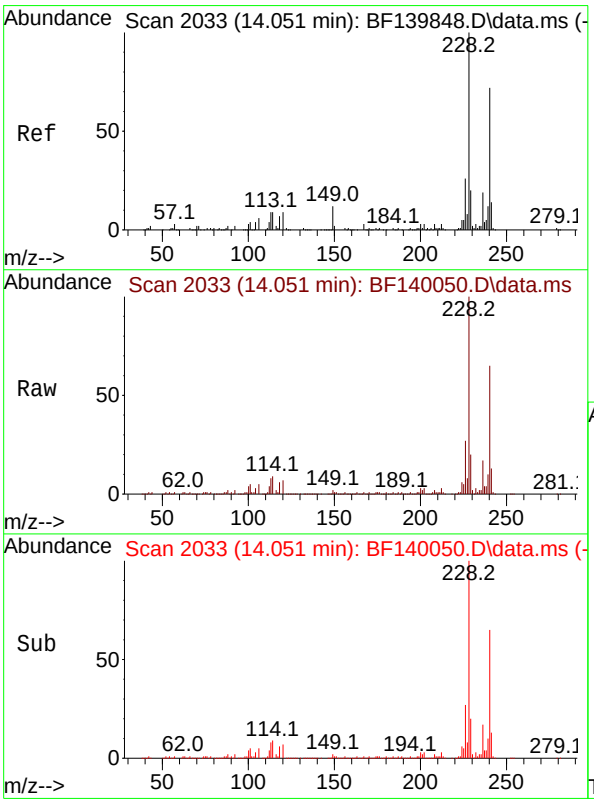
Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.9
203	17.5	0.0	37.5

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

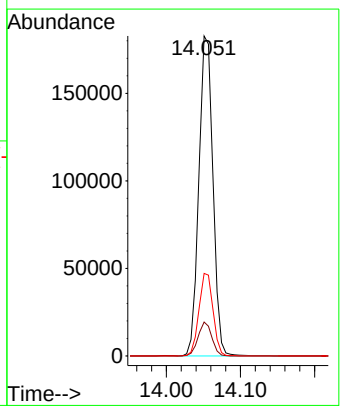


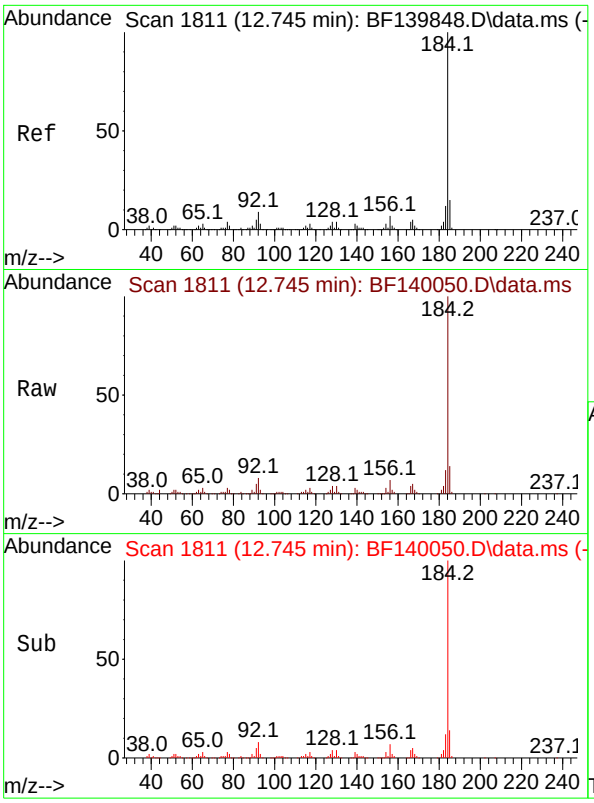


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:240 Resp: 241717

Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.4	14.2
236	25.8	20.9	31.3





#77
Benzidine
Concen: 54.904 ng
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

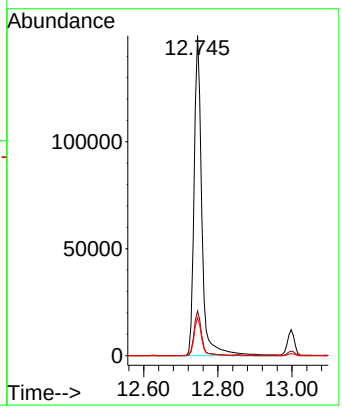
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

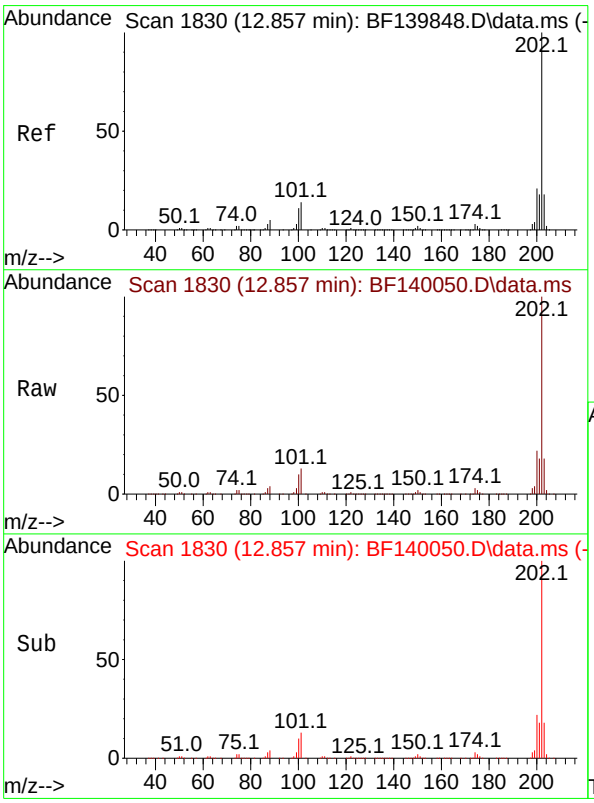
Tgt Ion:184 Resp: 21822

Ion	Ratio	Lower	Upper
184	100		
185	14.0	12.0	18.0
183	11.9	9.4	14.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

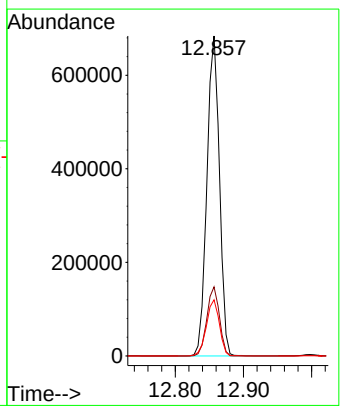


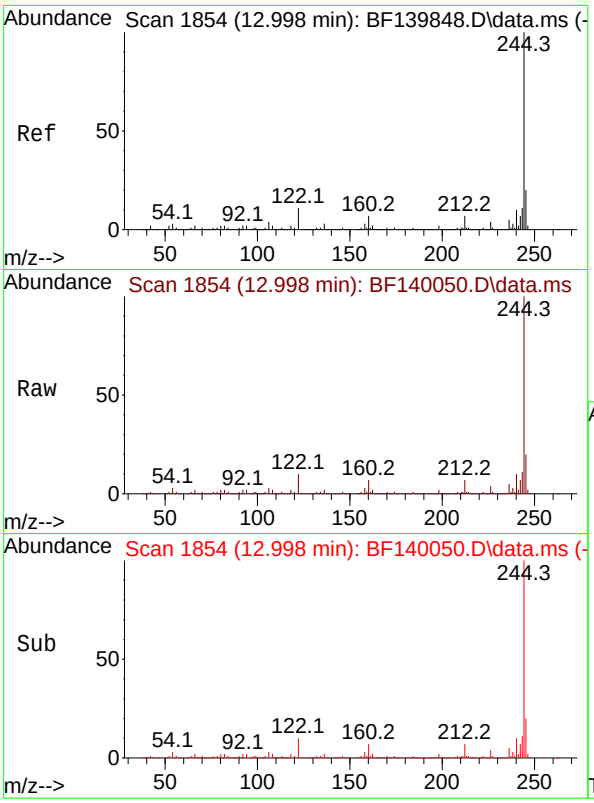


#78
Pyrene
Concen: 41.378 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:202 Resp: 875493

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.2	25.8
203	17.5	14.2	21.4

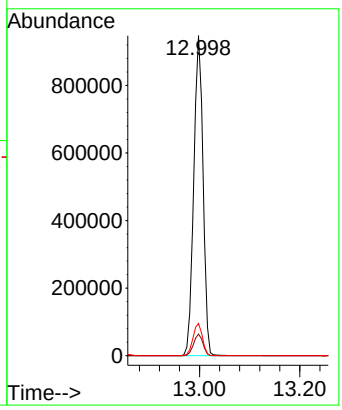




#79
Terphenyl-d14
Concen: 81.965 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:244 Resp: 121586

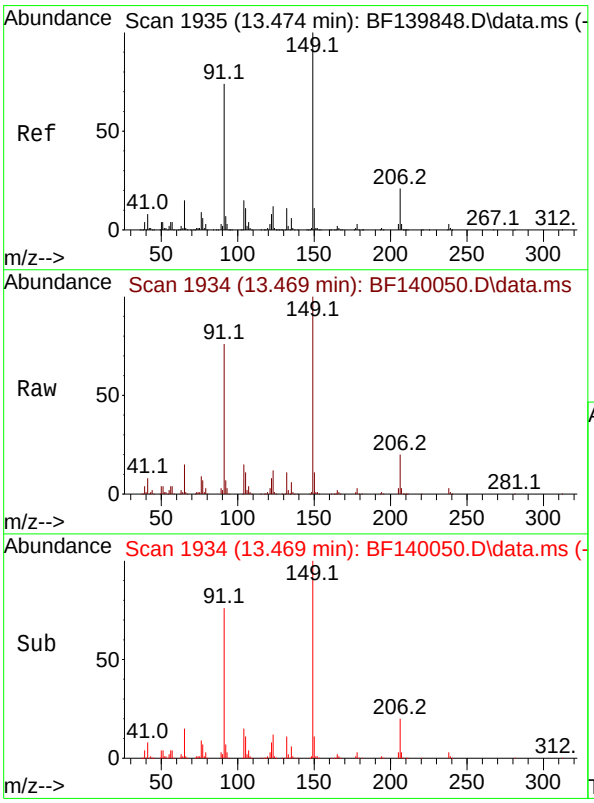
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	10.0	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

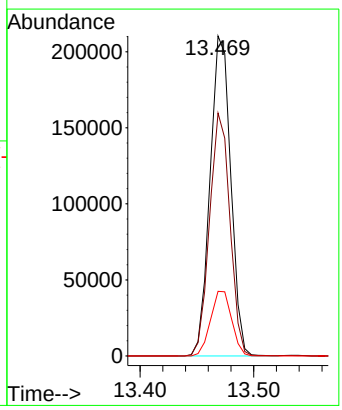
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

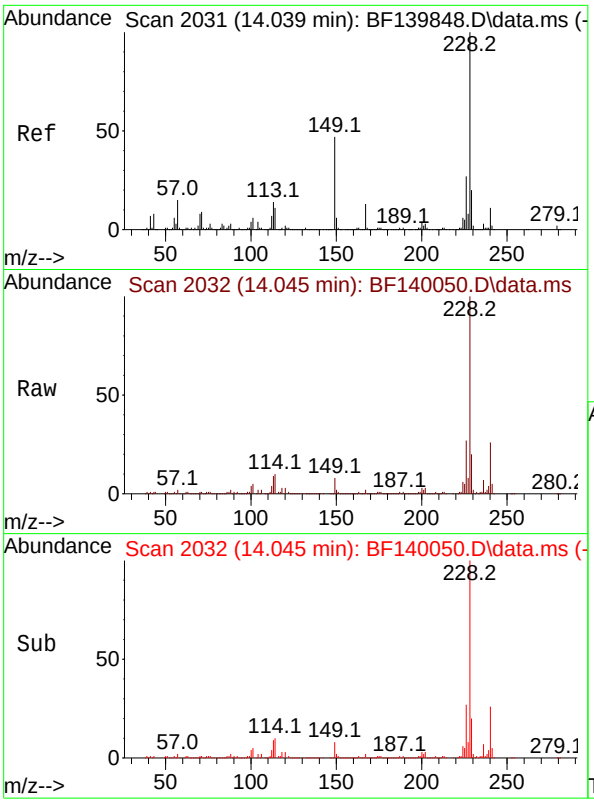


#80
Butylbenzylphthalate
Concen: 41.996 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:149 Resp: 266392

Ion	Ratio	Lower	Upper
149	100		
91	75.9	59.4	89.2
206	20.2	16.4	24.6





#81
Benzo(a)anthracene
Concen: 40.293 ng
RT: 14.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

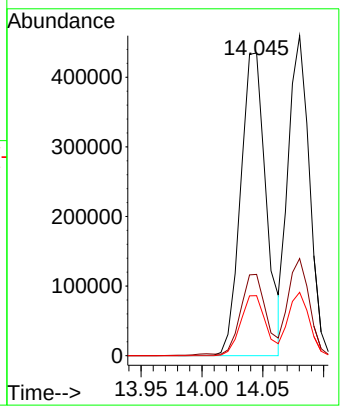
Tgt Ion:228 Resp: 63400

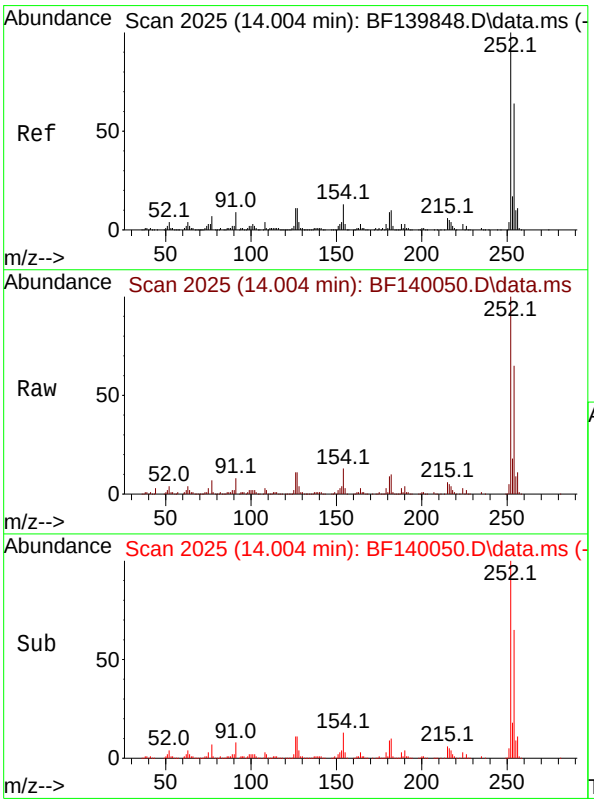
Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.6	32.4
229	19.8	16.1	24.1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

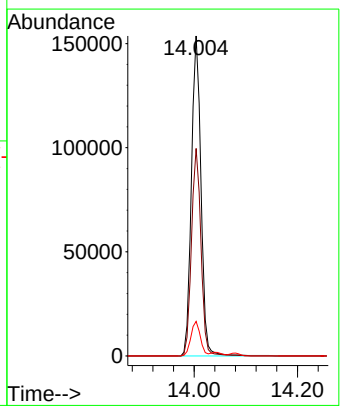


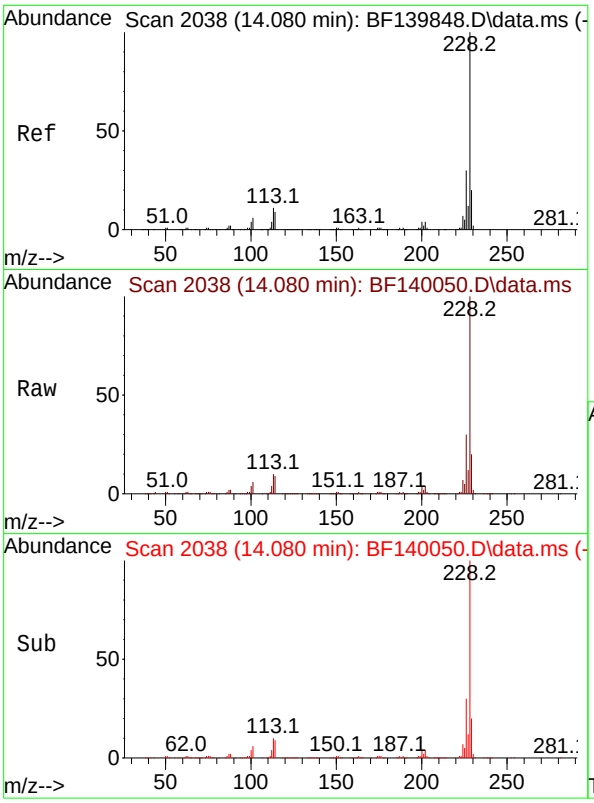


#82
3,3'-Dichlorobenzidine
Concen: 43.096 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:252 Resp: 197714

Ion	Ratio	Lower	Upper
252	100		
254	64.8	50.8	76.2
126	10.8	8.9	13.3

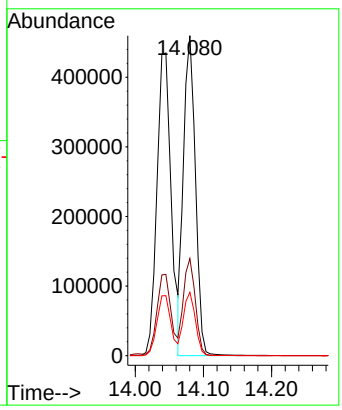




#83
Chrysene
Concen: 38.784 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:228 Resp: 55954

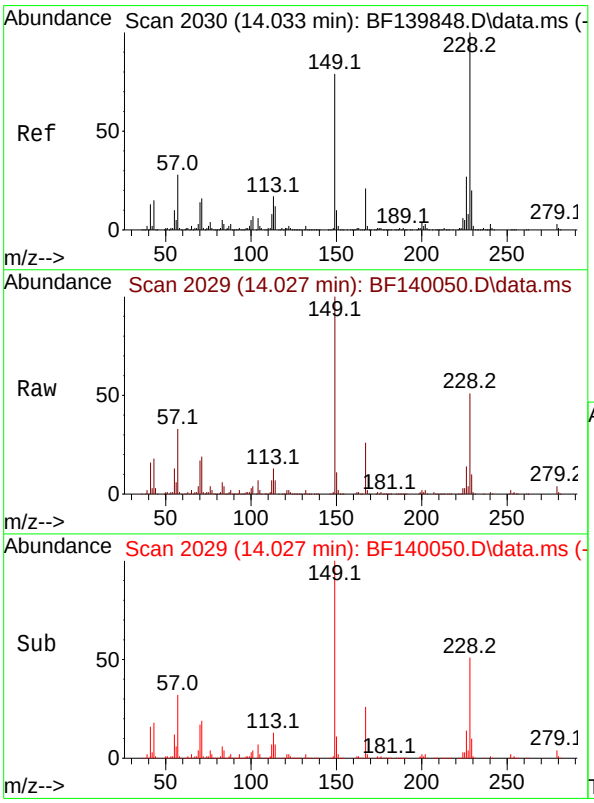
Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.1	36.1
229	19.8	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

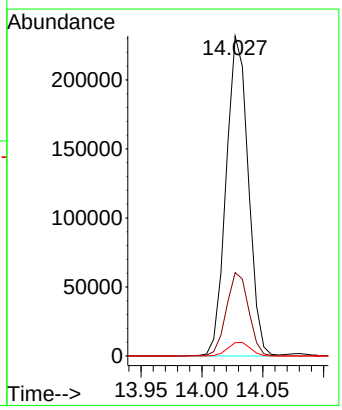
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

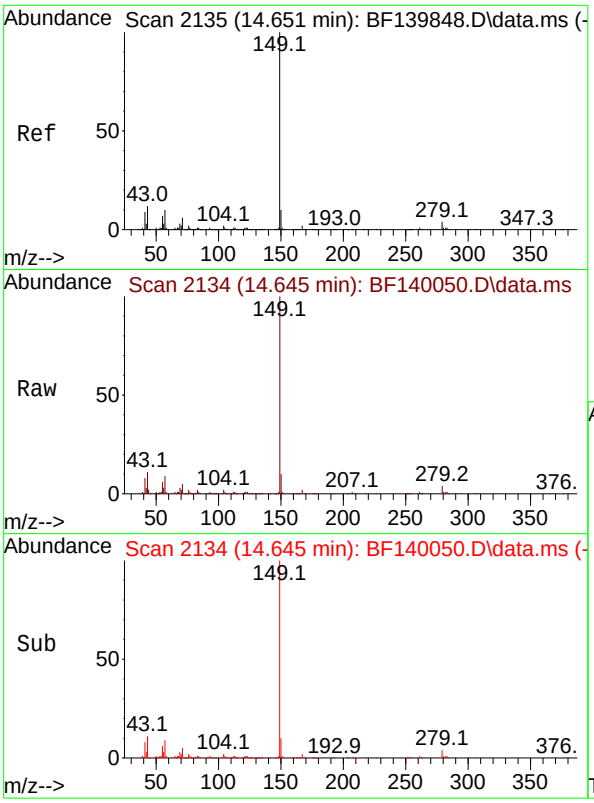


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.182 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:149 Resp: 293086

Ion	Ratio	Lower	Upper
149	100		
167	26.1	21.4	32.0
279	4.2	3.0	4.4





#85
Di-n-octyl phthalate
Concen: 33.379 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

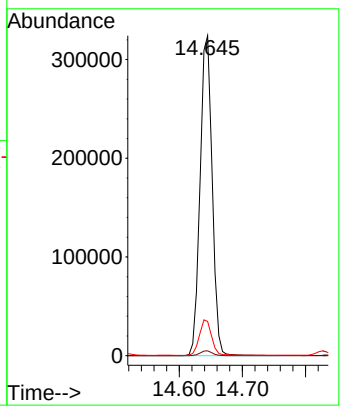
Tgt Ion:149 Resp: 43208

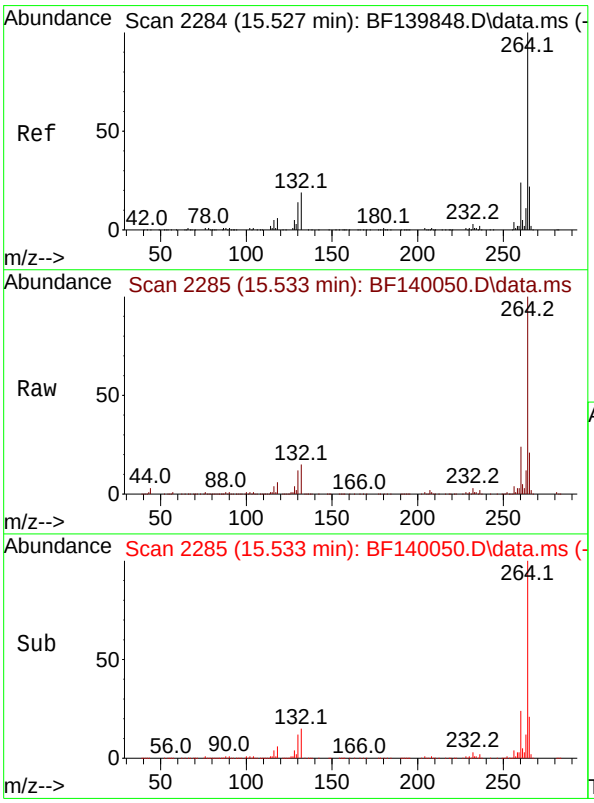
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	11.4	9.8	14.6

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

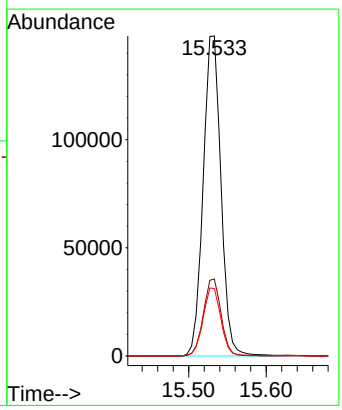


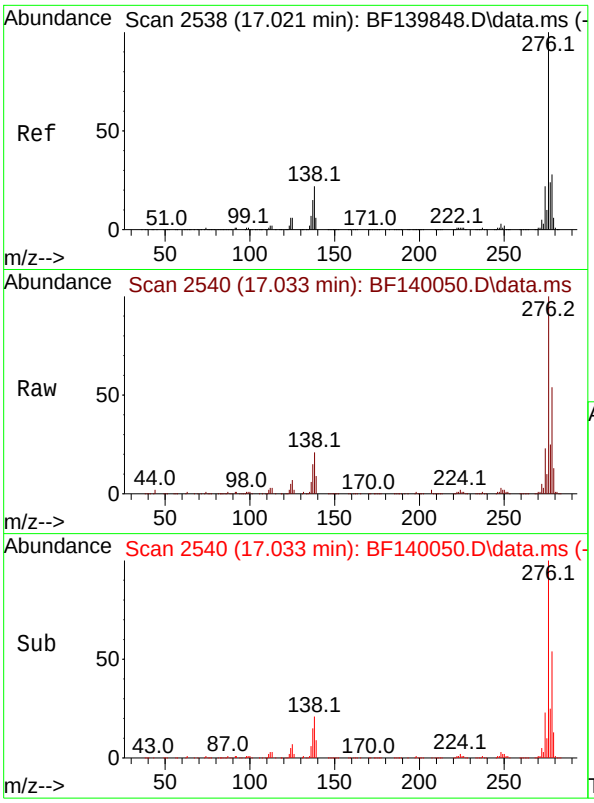


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. 0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:264 Resp: 235878

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	21.0	17.4	26.0

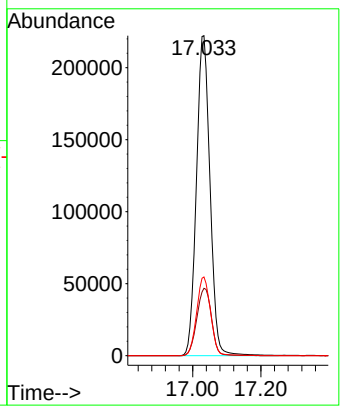




#87
Indeno(1,2,3-cd)pyrene
Concen: 40.509 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:276 Resp: 61470

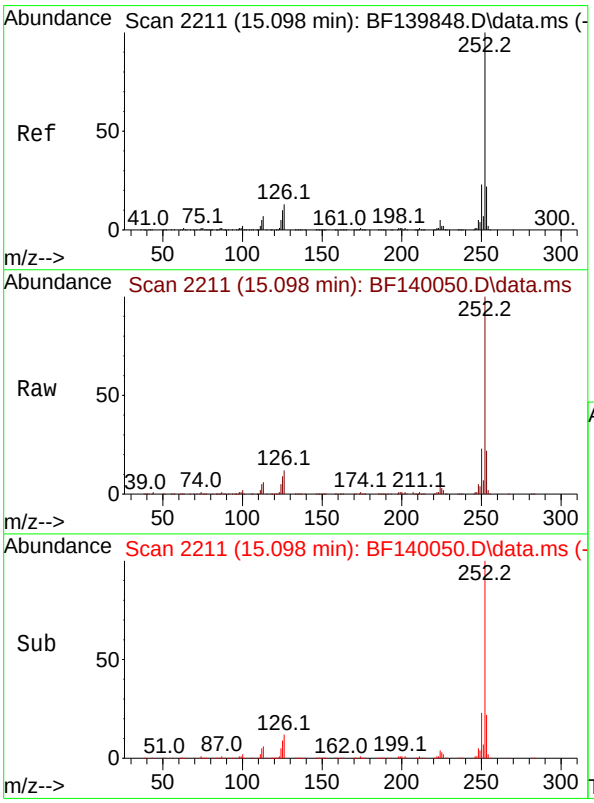
Ion	Ratio	Lower	Upper
276	100		
138	22.7	20.4	30.6
277	25.2	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

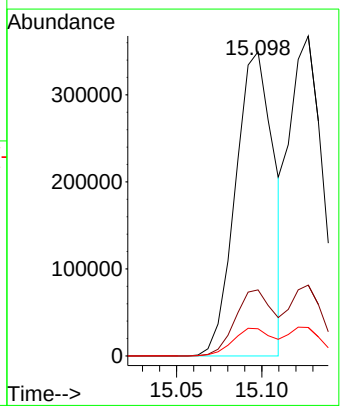
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

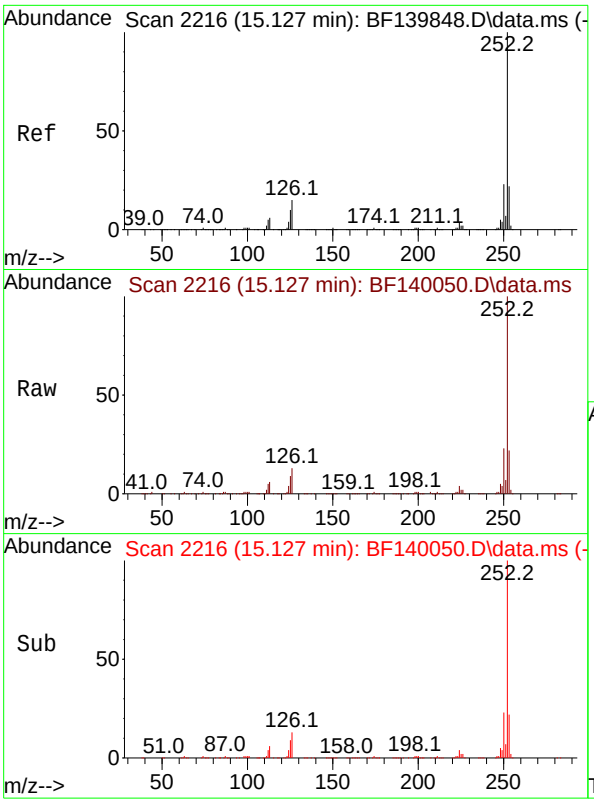


#88
Benzo(b)fluoranthene
Concen: 37.874 ng
RT: 15.098 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:252 Resp: 544199

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.6	26.4
125	8.9	7.9	11.9





#89
Benzo(k)fluoranthene
Concen: 40.470 ng
RT: 15.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

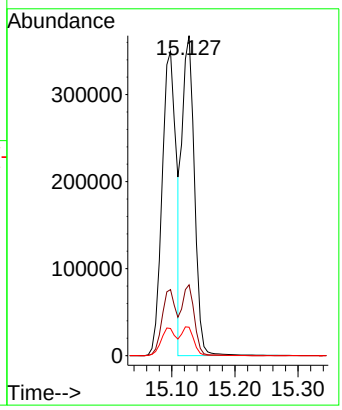
Tgt Ion:252 Resp: 50149

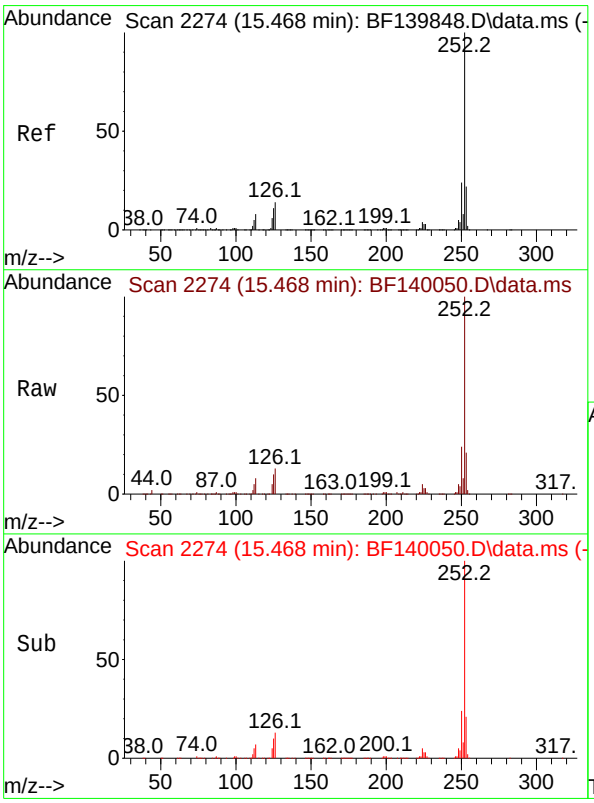
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	8.9	7.9	11.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

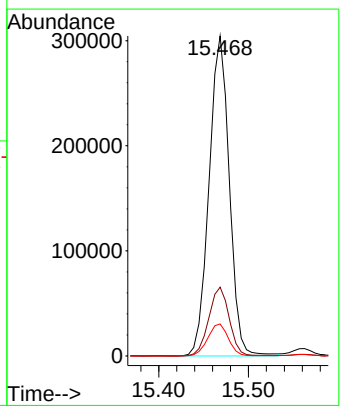


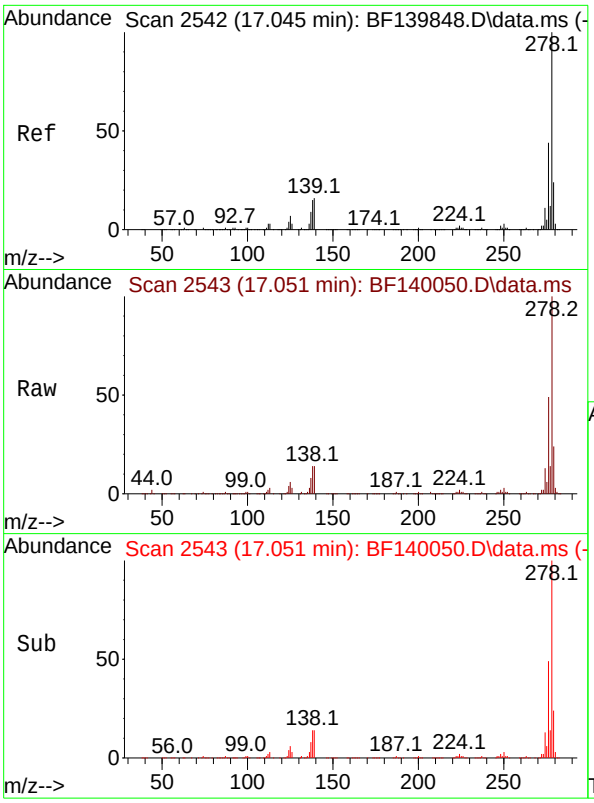


#90
Benzo(a)pyrene
Concen: 40.409 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:252 Resp: 477754

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.3	25.9
125	10.0	8.7	13.1

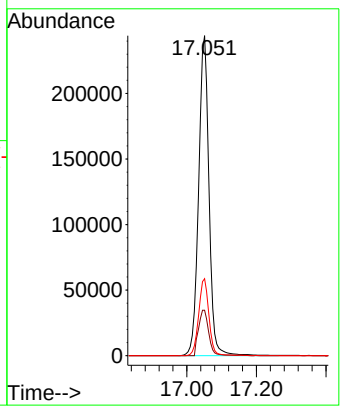




#91
Dibenzo(a,h)anthracene
Concen: 39.886 ng
RT: 17.051 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:278 Resp: 50491

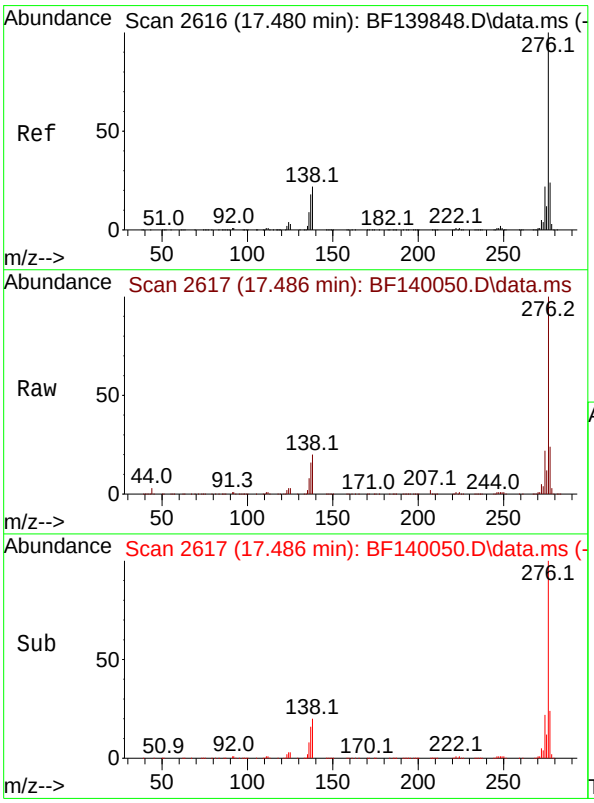
Ion	Ratio	Lower	Upper
278	100		
139	14.2	13.1	19.7
279	24.0	19.0	28.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

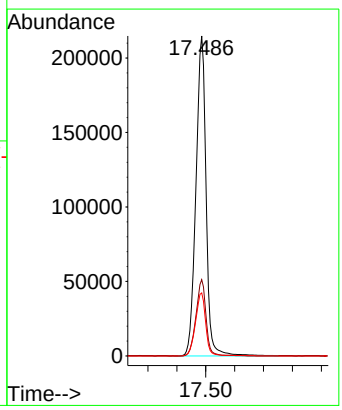
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024



#92
Benzo(g,h,i)perylene
Concen: 41.435 ng
RT: 17.486 min Scan# 2617
Delta R.T. 0.006 min
Lab File: BF140050.D
Acq: 26 Oct 2024 10:38

Tgt Ion:276 Resp: 523930

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.6
138	19.7	17.4	26.0



Sample Results: **BF140050.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140050.D
Acq On : 26 Oct 2024 10:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 28 01:04:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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	71	0.00
2		1,4-Dioxane	0.596	0.584	2.0	70	-0.02
3		Pyridine	1.476	1.426	3.4	67	-0.01
4		n-Nitrosodimethylamine	0.793	0.741	6.6	65	-0.01
5	S	2-Fluorophenol	1.278	1.220	4.5	68	0.00
6		Aniline	1.542	1.432	7.1	64	0.00
7	S	Phenol-d6	1.655	1.531	7.5	66	0.00
8		2-Chlorophenol	1.306	1.244	4.7	67	0.00
9		Benzaldehyde	0.931	0.910	2.3	69	0.00
10	C	Phenol	1.706	1.580	7.4	65	0.00
11		bis(2-Chloroethyl)ether	1.319	1.223	7.3	67	0.00
12		1,3-Dichlorobenzene	1.499	1.477	1.5	70	0.00
13	C	1,4-Dichlorobenzene	1.498	1.482	1.1	71	0.00
14		1,2-Dichlorobenzene	1.398	1.369	2.1	70	0.00
15		Benzyl Alcohol	1.214	1.129	7.0	66	0.00
16		2,2'-oxybis(1-Chloropropane	2.248	1.910	15.0	60	0.00
17		2-Methylphenol	1.114	1.029	7.6	65	0.00
18		Hexachloroethane	0.534	0.520	2.6	68	0.00
19	P	n-Nitroso-di-n-propylamine	1.004	0.873	13.0	63	0.00
20		3+4-Methylphenols	1.424	1.308	8.1	65	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	68	0.00
22		Acetophenone	0.490	0.475	3.1	67	0.00
23	S	Nitrobenzene-d5	0.361	0.380	-5.3	69	0.00
24		Nitrobenzene	0.396	0.399	-0.8	67	0.00
25		Isophorone	0.685	0.645	5.8	64	0.00
26	C	2-Nitrophenol	0.149	0.164	-10.1	70	0.00
27		2,4-Dimethylphenol	0.249	0.232	6.8	63	0.00
28		bis(2-Chloroethoxy)methane	0.415	0.393	5.3	65	0.00
29	C	2,4-Dichlorophenol	0.283	0.279	1.4	67	0.00
30		1,2,4-Trichlorobenzene	0.314	0.319	-1.6	68	0.00
31		Naphthalene	1.031	1.028	0.3	68	0.00
32		Benzoic acid	0.217	0.211	2.8	65	0.00
33		4-Chloroaniline	0.352	0.343	2.6	66	0.00
34	C	Hexachlorobutadiene	0.197	0.204	-3.6	70	0.00
35		Caprolactam	0.090	0.088	2.2	65	0.00
36	C	4-Chloro-3-methylphenol	0.314	0.307	2.2	66	0.00
37		2-Methylnaphthalene	0.632	0.618	2.2	67	0.00
38		1-Methylnaphthalene	0.620	0.605	2.4	67	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	66	0.00
40		1,2,4,5-Tetrachlorobenzene	0.540	0.555	-2.8	69	0.00
41	P	Hexachlorocyclopentadiene	0.188	0.191	-1.6	64	0.00
42	S	2,4,6-Tribromophenol	0.187	0.204	-9.1	72	0.00
43	C	2,4,6-Trichlorophenol	0.382	0.374	2.1	64	0.00
44		2,4,5-Trichlorophenol	0.394	0.414	-5.1	69	0.00
45	S	2-Fluorobiphenyl	1.210	1.211	-0.1	69	0.00
46		1,1'-Biphenyl	1.392	1.391	0.1	67	0.00
47		2-Chloronaphthalene	1.121	1.129	-0.7	68	0.00

Sample Results: **BF140050.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140050.D
Acq On : 26 Oct 2024 10:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 28 01:04:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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	0.343	0.375	-9.3	68	0.00
49		Acenaphthylene	1.621	1.628	-0.4	67	0.00
50		Dimethylphthalate	1.246	1.229	1.4	66	0.00
51		2,6-Dinitrotoluene	0.270	0.290	-7.4	69	0.00
52	C	Acenaphthene	1.049	1.058	-0.9	67	0.00
53		3-Nitroaniline	0.278	0.298	-7.2	68	0.00
54	P	2,4-Dinitrophenol	0.093	0.126	-35.5#	83	0.00
55		Dibenzofuran	1.505	1.491	0.9	67	0.00
56	P	4-Nitrophenol	0.214	0.229	-7.0	66	0.00
57		2,4-Dinitrotoluene	0.332	0.383	-15.4	72	0.00
58		Fluorene	1.146	1.149	-0.3	69	0.00
59		2,3,4,6-Tetrachlorophenol	0.309	0.315	-1.9	68	0.00
60		Diethylphthalate	1.223	1.181	3.4	65	0.00
61		4-Chlorophenyl-phenylether	0.579	0.581	-0.3	68	0.00
62		4-Nitroaniline	0.263	0.289	-9.9	70	0.00
63		Azobenzene	1.297	1.197	7.7	61	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	68	0.00
65		4,6-Dinitro-2-methylphenol	0.082	0.104	-26.8#	82	0.00
66	c	n-Nitrosodiphenylamine	0.599	0.572	4.5	65	0.00
67		4-Bromophenyl-phenylether	0.206	0.202	1.9	68	0.00
68		Hexachlorobenzene	0.232	0.233	-0.4	69	0.00
69		Atrazine	0.162	0.156	3.7	61	0.00
70	C	Pentachlorophenol	0.141	0.152	-7.8	68	0.00
71		Phenanthrene	0.945	0.913	3.4	67	0.00
72		Anthracene	0.922	0.901	2.3	67	0.00
73		Carbazole	0.857	0.832	2.9	67	0.00
74		Di-n-butylphthalate	0.990	0.946	4.4	64	0.00
75	C	Fluoranthene	0.955	0.965	-1.0	70	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	70	0.00
77		Benzidine	0.329	0.451	-37.1#	86	0.00
78		Pyrene	1.751	1.811	-3.4	70	0.00
79	S	Terphenyl-d14	1.227	1.258	-2.5	71	0.00
80		Butylbenzylphthalate	0.525	0.551	-5.0	69	0.00
81		Benzo(a)anthracene	1.302	1.311	-0.7	69	0.00
82		3,3'-Dichlorobenzidine	0.380	0.409	-7.6	74	0.00
83		Chrysene	1.194	1.157	3.1	69	0.00
84		Bis(2-ethylhexyl)phthalate	0.589	0.606	-2.9	68	0.00
85	c	Di-n-octyl phthalate	1.071	0.894	16.5	55	0.00
86	I	Perylene-d12	1.000	1.000	0.0	65	0.00
87		Indeno(1,2,3-cd)pyrene	1.287	1.303	-1.2	62	0.01
88		Benzo(b)fluoranthene	1.218	1.154	5.3	62	0.00
89		Benzo(k)fluoranthene	1.051	1.063	-1.1	64	0.00
90	C	Benzo(a)pyrene	1.002	1.013	-1.1	64	0.00
91		Dibenzo(a,h)anthracene	1.073	1.070	0.3	62	0.00
92		Benzo(g,h,i)perylene	1.072	1.111	-3.6	64	0.00

Sample Results: **BF140050.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140050.D
Acq On : 26 Oct 2024 10:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 28 01:04:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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

Sample Results: **BF140050.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140050.D
Acq On : 26 Oct 2024 10:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 28 01:04:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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	71	0.00
2		1,4-Dioxane	40.000	39.204	2.0	70	-0.02
3		Pyridine	40.000	38.628	3.4	67	-0.01
4		n-Nitrosodimethylamine	40.000	37.371	6.6	65	-0.01
5	S	2-Fluorophenol	80.000	76.419	4.5	68	0.00
6		Aniline	40.000	37.144	7.1	64	0.00
7	S	Phenol-d6	80.000	74.043	7.4	66	0.00
8		2-Chlorophenol	40.000	38.107	4.7	67	0.00
9		Benzaldehyde	40.000	39.089	2.3	69	0.00
10	C	Phenol	40.000	37.053	7.4	65	0.00
11		bis(2-Chloroethyl)ether	40.000	37.093	7.3	67	0.00
12		1,3-Dichlorobenzene	40.000	39.403	1.5	70	0.00
13	C	1,4-Dichlorobenzene	40.000	39.575	1.1	71	0.00
14		1,2-Dichlorobenzene	40.000	39.166	2.1	70	0.00
15		Benzyl Alcohol	40.000	37.193	7.0	66	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	33.991	15.0	60	0.00
17		2-Methylphenol	40.000	36.976	7.6	65	0.00
18		Hexachloroethane	40.000	38.915	2.7	68	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	34.813	13.0	63	0.00
20		3+4-Methylphenols	40.000	36.741	8.1	65	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	68	0.00
22		Acetophenone	40.000	38.819	3.0	67	0.00
23	S	Nitrobenzene-d5	80.000	84.348	-5.4	69	0.00
24		Nitrobenzene	40.000	40.387	-1.0	67	0.00
25		Isophorone	40.000	37.663	5.8	64	0.00
26	C	2-Nitrophenol	40.000	44.001	-10.0	70	0.00
27		2,4-Dimethylphenol	40.000	37.214	7.0	63	0.00
28		bis(2-Chloroethoxy)methane	40.000	37.905	5.2	65	0.00
29	C	2,4-Dichlorophenol	40.000	39.370	1.6	67	0.00
30		1,2,4-Trichlorobenzene	40.000	40.725	-1.8	68	0.00
31		Naphthalene	40.000	39.859	0.4	68	0.00
32		Benzoic acid	40.000	38.864	2.8	65	0.00
33		4-Chloroaniline	40.000	39.027	2.4	66	0.00
34	C	Hexachlorobutadiene	40.000	41.486	-3.7	70	0.00
35		Caprolactam	40.000	39.090	2.3	65	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.183	2.0	66	0.00
37		2-Methylnaphthalene	40.000	39.160	2.1	67	0.00
38		1-Methylnaphthalene	40.000	39.059	2.4	67	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	66	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	41.156	-2.9	69	0.00
41	P	Hexachlorocyclopentadiene	40.000	40.599	-1.5	64	0.00
42	S	2,4,6-Tribromophenol	80.000	87.205	-9.0	72	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.204	2.0	64	0.00
44		2,4,5-Trichlorophenol	40.000	42.019	-5.0	69	0.00
45	S	2-Fluorobiphenyl	80.000	80.059	-0.1	69	0.00
46		1,1'-Biphenyl	40.000	39.976	0.1	67	0.00
47		2-Chloronaphthalene	40.000	40.256	-0.6	68	0.00

Sample Results: **BF140050.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140050.D
Acq On : 26 Oct 2024 10:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 28 01:04:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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	43.726	-9.3	68	0.00
49		Acenaphthylene	40.000	40.178	-0.4	67	0.00
50		Dimethylphthalate	40.000	39.467	1.3	66	0.00
51		2,6-Dinitrotoluene	40.000	43.043	-7.6	69	0.00
52	C	Acenaphthene	40.000	40.337	-0.8	67	0.00
53		3-Nitroaniline	40.000	42.788	-7.0	68	0.00
54	P	2,4-Dinitrophenol	40.000	47.791	-19.5	83	0.00
55		Dibenzofuran	40.000	39.650	0.9	67	0.00
56	P	4-Nitrophenol	40.000	42.861	-7.2	66	0.00
57		2,4-Dinitrotoluene	40.000	46.215	-15.5	72	0.00
58		Fluorene	40.000	40.101	-0.3	69	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.748	-1.9	68	0.00
60		Diethylphthalate	40.000	38.622	3.4	65	0.00
61		4-Chlorophenyl-phenylether	40.000	40.136	-0.3	68	0.00
62		4-Nitroaniline	40.000	44.006	-10.0	70	0.00
63		Azobenzene	40.000	36.919	7.7	61	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	68	0.00
65		4,6-Dinitro-2-methylphenol	40.000	51.213	-28.0#	82	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.193	4.5	65	0.00
67		4-Bromophenyl-phenylether	40.000	39.222	1.9	68	0.00
68		Hexachlorobenzene	40.000	40.149	-0.4	69	0.00
69		Atrazine	40.000	38.590	3.5	61	0.00
70	C	Pentachlorophenol	40.000	43.242	-8.1	68	0.00
71		Phenanthrene	40.000	38.651	3.4	67	0.00
72		Anthracene	40.000	39.105	2.2	67	0.00
73		Carbazole	40.000	38.824	2.9	67	0.00
74		Di-n-butylphthalate	40.000	38.208	4.5	64	0.00
75	C	Fluoranthene	40.000	40.418	-1.0	70	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	70	0.00
77		Benzidine	40.000	54.904	-37.3#	86	0.00
78		Pyrene	40.000	41.378	-3.4	70	0.00
79	S	Terphenyl-d14	80.000	81.965	-2.5	71	0.00
80		Butylbenzylphthalate	40.000	41.996	-5.0	69	0.00
81		Benzo(a)anthracene	40.000	40.293	-0.7	69	0.00
82		3,3'-Dichlorobenzidine	40.000	43.096	-7.7	74	0.00
83		Chrysene	40.000	38.784	3.0	69	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.182	-3.0	68	0.00
85	c	Di-n-octyl phthalate	40.000	33.379	16.6	55	0.00
86	I	Perylene-d12	20.000	20.000	0.0	65	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	40.509	-1.3	62	0.01
88		Benzo(b)fluoranthene	40.000	37.874	5.3	62	0.00
89		Benzo(k)fluoranthene	40.000	40.470	-1.2	64	0.00
90	C	Benzo(a)pyrene	40.000	40.409	-1.0	64	0.00
91		Dibenzo(a,h)anthracene	40.000	39.886	0.3	62	0.00
92		Benzo(g,h,i)perylene	40.000	41.435	-3.6	64	0.00

Sample Results: **BF140050.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140050.D
Acq On : 26 Oct 2024 10:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 28 01:04:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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: **BF140340.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: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 11/13/2024 12:48

Lab File ID: BF140340.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.649	0.659		1.5	
Pyridine	1.283	1.316		2.6	
2-Fluorophenol	1.171	1.150		-1.8	
Benzaldehyde	0.951	0.891		-6.3	
Aniline	1.381	1.451		5.1	
Phenol-d6	1.587	1.605		1.1	
Phenol	1.674	1.724		3.0	20.0
bis(2-Chloroethyl)ether	1.268	1.263		-0.4	
2-Chlorophenol	1.258	1.263		0.4	
1,2-Dichlorobenzene	1.307	1.294		-1.0	
1,3-Dichlorobenzene	1.388	1.374		-1.0	
1,4-Dichlorobenzene	1.408	1.391		-1.2	20.0
Benzyl Alcohol	1.143	1.211		5.9	
2-Methylphenol	1.035	1.064		2.8	
2,2-oxybis(1-Chloropropane)	1.752	1.816		3.7	
Acetophenone	0.465	0.450		-3.2	
3+4-Methylphenols	1.295	1.351		4.3	
n-Nitroso-di-n-propylamine	0.959	0.982	0.050	2.4	
Nitrobenzene-d5	0.384	0.375		-2.3	
Hexachloroethane	0.520	0.514		-1.2	
Nitrobenzene	0.400	0.393		-1.8	
Isophorone	0.680	0.674		-0.9	
2-Nitrophenol	0.177	0.179		1.1	20.0
2,4-Dimethylphenol	0.227	0.223		-1.8	
bis(2-Chloroethoxy)methane	0.417	0.407		-2.4	
2,4-Dichlorophenol	0.281	0.275		-2.1	20.0
1,2,4-Trichlorobenzene	0.312	0.302		-3.2	
Benzoic acid	0.200	0.212		6.0	
Naphthalene	1.015	0.982		-3.3	
4-Chloroaniline	0.353	0.340		-3.7	
Hexachlorobutadiene	0.199	0.193		-3.0	20.0
Caprolactam	0.093	0.092		-1.1	
4-Chloro-3-methylphenol	0.311	0.309		-0.6	20.0
2-Methylnaphthalene	0.651	0.632		-2.9	
Hexachlorocyclopentadiene	0.142	0.139	0.050	-2.1	
2,4,6-Trichlorophenol	0.363	0.360		-0.8	20.0
2-Fluorobiphenyl	1.244	1.172		-5.8	
2,4,5-Trichlorophenol	0.397	0.389		-2.0	
1,1-Biphenyl	1.455	1.404		-3.5	

Raw Data: **BF140340.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: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 11/13/2024 12:48

Lab File ID: BF140340.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.108	1.065		-3.9	
2-Nitroaniline	0.368	0.364		-1.1	
Dimethylphthalate	1.304	1.261		-3.3	
Acenaphthylene	1.677	1.636		-2.4	
2,6-Dinitrotoluene	0.297	0.297		0.0	
3-Nitroaniline	0.312	0.310		-0.6	
Acenaphthene	1.133	1.096		-3.3	20.0
2,4-Dinitrophenol	0.153	0.147	0.050	-3.9	
4-Nitrophenol	0.228	0.236	0.050	3.5	
Dibenzofuran	1.603	1.558		-2.8	
2,4-Dinitrotoluene	0.391	0.387		-1.0	
Diethylphthalate	1.333	1.287		-3.5	
4-Chlorophenyl-phenylether	0.625	0.604		-3.4	
Fluorene	1.267	1.202		-5.1	
4-Nitroaniline	0.319	0.319		0.0	
4,6-Dinitro-2-methylphenol	0.108	0.109		0.9	
n-Nitrosodiphenylamine	0.578	0.559		-3.3	20.0
Azobenzene	1.317	1.293		-1.8	
2,4,6-Tribromophenol	0.199	0.193		-3.0	
4-Bromophenyl-phenylether	0.200	0.194		-3.0	
Hexachlorobenzene	0.225	0.218		-3.1	
Atrazine	0.175	0.145		-17.1	
Pentachlorophenol	0.121	0.127		5.0	20.0
Phenanthrene	0.940	0.903		-3.9	
Anthracene	0.921	0.889		-3.5	
Carbazole	0.909	0.876		-3.6	
Di-n-butylphthalate	1.091	1.074		-1.6	
Fluoranthene	1.054	1.018		-3.4	20.0
Benzidine	0.768	0.653		-15.0	
Pyrene	1.711	1.679		-1.9	
Terphenyl-d14	1.152	1.123		-2.5	
Butylbenzylphthalate	0.657	0.690		5.0	
3,3-Dichlorobenzidine	0.418	0.402		-3.8	
Benzo(a)anthracene	1.314	1.263		-3.9	
Chrysene	1.199	1.168		-2.6	
Bis(2-ethylhexyl)phthalate	0.877	0.927		5.7	
Di-n-octyl phthalate	1.235	1.290		4.5	20.0
Benzo(b)fluoranthene	1.308	1.263		-3.4	
Benzo(k)fluoranthene	1.069	1.060		-0.8	

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: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 11/13/2024 12:48

Lab File ID: BF140340.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.016	1.005		-1.1	20.0
Indeno(1,2,3-cd)pyrene	1.235	1.258		1.9	
Dibenzo(a,h)anthracene	1.021	1.039		1.8	
Benzo(g,h,i)perylene	1.044	1.063		1.8	
1,2,4,5-Tetrachlorobenzene	0.553	0.531		-4.0	
1,4-Dioxane	0.522	0.515		-1.3	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.318		1.6	
1-Methylnaphthalene	0.637	0.625		-1.9	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140340.D
Acq On : 13 Nov 2024 12:48
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	147186	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	589077	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	334544	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	628587	20.000	ng	0.00
76) Chrysene-d12	14.063	240	385940	20.000	ng	0.01
86) Perylene-d12	15.580	264	322417	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	677089	78.544	ng	0.00
7) Phenol-d6	6.504	99	945074	80.918	ng	0.00
23) Nitrobenzene-d5	7.440	82	884247	78.210	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	257655	77.449	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1568502	75.369	ng	0.00
79) Terphenyl-d14	12.986	244	1733989	77.987	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	151541	39.442	ng	99
3) Pyridine	3.399	79	387454	41.019	ng	99
4) n-Nitrosodimethylamine	3.352	42	193917	40.620	ng	97
6) Aniline	6.540	93	427252	42.052	ng	100
8) 2-Chlorophenol	6.663	128	371904	40.162	ng	100
9) Benzaldehyde	6.428	77	262348	37.479	ng	99
10) Phenol	6.516	94	507443	41.199	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	371673	39.825	ng	99
12) 1,3-Dichlorobenzene	6.816	146	404387	39.579	ng	99
13) 1,4-Dichlorobenzene	6.893	146	409423	39.520	ng	99
14) 1,2-Dichlorobenzene	7.051	146	380948	39.610	ng	100
15) Benzyl Alcohol	7.016	79	356418	42.357	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	534596	41.471	ng	99
17) 2-Methylphenol	7.128	107	313127	41.105	ng	99
18) Hexachloroethane	7.387	117	151355	39.519	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	288974	40.966	ng	98
20) 3+4-Methylphenols	7.281	107	397692	41.745	ng	96
22) Acetophenone	7.287	105	529699	38.662	ng	98
24) Nitrobenzene	7.457	77	462701	39.307	ng	99
25) Isophorone	7.698	82	793806	39.616	ng	99
26) 2-Nitrophenol	7.775	139	210859	40.366	ng	99
27) 2,4-Dimethylphenol	7.804	122	262308	39.222	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	479505	39.027	ng	100
29) 2,4-Dichlorophenol	8.016	162	323936	39.193	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	355366	38.619	ng	100
31) Naphthalene	8.181	128	1157149	38.723	ng	100
32) Benzoic acid	7.928	122	249383	42.449	ng	96
33) 4-Chloroaniline	8.228	127	400271	38.516	ng	100
34) Hexachlorobutadiene	8.292	225	227805	38.855	ng	99
35) Caprolactam	8.598	113	108216	38.943	ng	96
36) 4-Chloro-3-methylphenol	8.704	107	364230	39.766	ng	99
37) 2-Methylnaphthalene	8.869	142	744201	38.839	ng	99
38) 1-Methylnaphthalene	8.969	142	736798	39.267	ng	99
40) 1,2,4,5-Tetrachloroben...	9.034	216	354978	38.371	ng	99
41) Hexachlorocyclopentadiene	9.022	237	93127	39.207	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	240824	39.666	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140340.D
Acq On : 13 Nov 2024 12:48
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

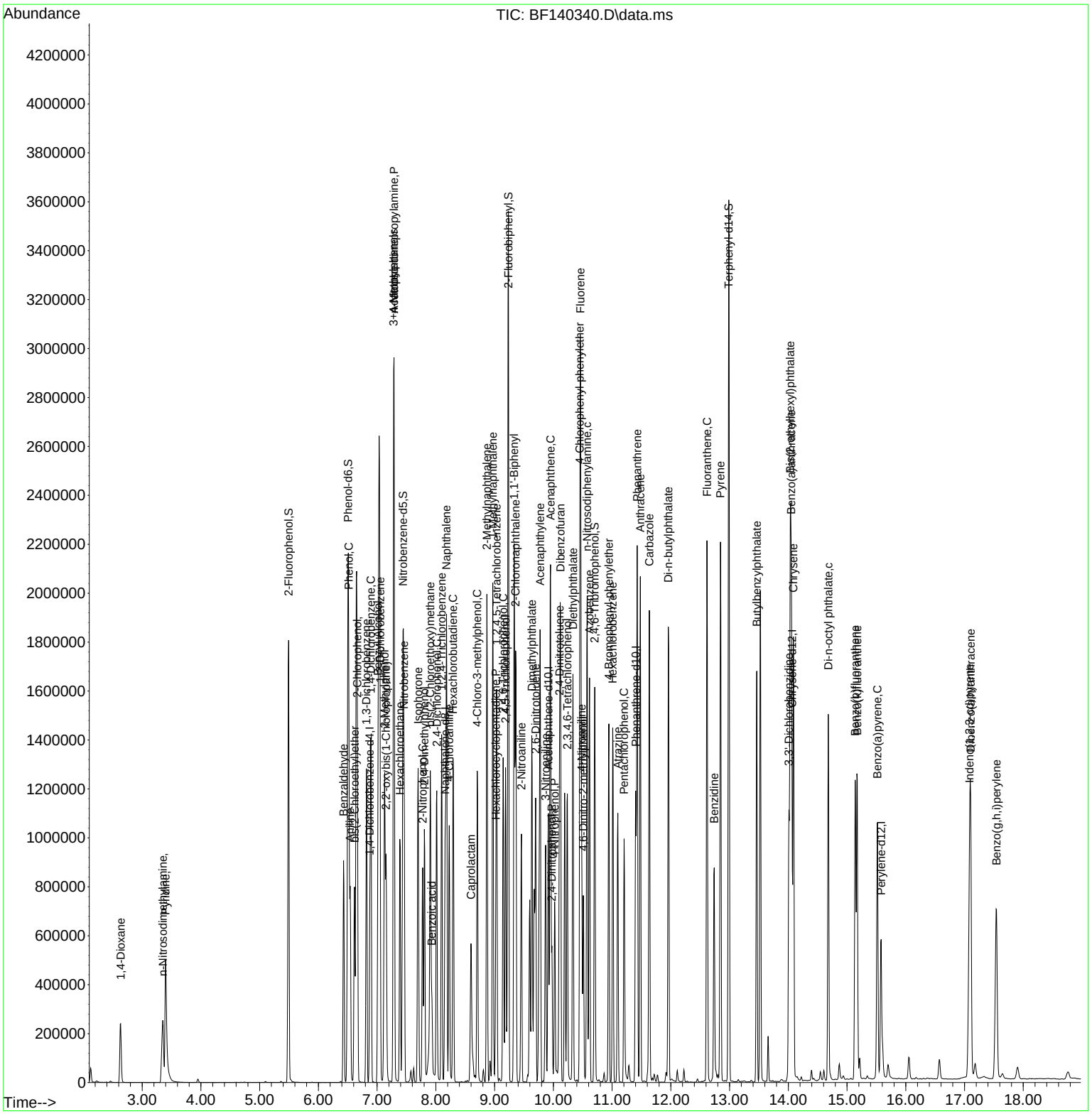
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	260135	39.190	ng	99
46) 1,1'-Biphenyl	9.334	154	939571	38.605	ng	99
47) 2-Chloronaphthalene	9.357	162	712904	38.453	ng	99
48) 2-Nitroaniline	9.457	65	243614	39.621	ng	99
49) Acenaphthylene	9.775	152	1094318	39.012	ng	100
50) Dimethylphthalate	9.634	163	843750	38.694	ng	100
51) 2,6-Dinitrotoluene	9.698	165	198967	40.024	ng	99
52) Acenaphthene	9.951	154	733408	38.711	ng	100
53) 3-Nitroaniline	9.869	138	207550	39.755	ng	100
54) 2,4-Dinitrophenol	9.975	184	98545	38.441	ng	98
55) Dibenzofuran	10.122	168	1042453	38.868	ng	100
56) 4-Nitrophenol	10.022	139	157938	41.475	ng	98
57) 2,4-Dinitrotoluene	10.104	165	258886	39.569	ng	98
58) Fluorene	10.463	166	804084	37.951	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	212533	40.586	ng	99
60) Diethylphthalate	10.334	149	861287	38.627	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	403914	38.614	ng	99
62) 4-Nitroaniline	10.481	138	213640	40.022	ng	100
63) Azobenzene	10.616	77	865008	39.263	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	136662	40.409	ng	98
66) n-Nitrosodiphenylamine	10.575	169	703286	38.723	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	243728	38.789	ng	100
68) Hexachlorobenzene	11.010	284	273839	38.734	ng	98
69) Atrazine	11.098	200	181993	33.121	ng	99
70) Pentachlorophenol	11.204	266	160120	42.046	ng	98
71) Phenanthrene	11.428	178	1135052	38.440	ng	100
72) Anthracene	11.481	178	1117453	38.613	ng	100
73) Carbazole	11.633	167	1101588	38.551	ng	100
74) Di-n-butylphthalate	11.957	149	1350065	39.365	ng	100
75) Fluoranthene	12.616	202	1279456	38.621	ng	100
77) Benzidine	12.739	184	504166	34.036	ng	99
78) Pyrene	12.845	202	1295809	39.252	ng	100
80) Butylbenzylphthalate	13.463	149	532219	41.968	ng	97
81) Benzo(a)anthracene	14.051	228	975194	38.447	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	310326	38.491	ng	99
83) Chrysene	14.086	228	901424	38.950	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	715490	42.269	ng	100
85) Di-n-octyl phthalate	14.680	149	995484	41.757	ng	100
87) Indeno(1,2,3-cd)pyrene	17.086	276	811059	40.723	ng	100
88) Benzo(b)fluoranthene	15.139	252	814405	38.614	ng	100
89) Benzo(k)fluoranthene	15.174	252	683609	39.676	ng	99
90) Benzo(a)pyrene	15.516	252	648346	39.585	ng	99
91) Dibenzo(a,h)anthracene	17.104	278	670243	40.712	ng	99
92) Benzo(g,h,i)perylene	17.545	276	685184	40.711	ng	100

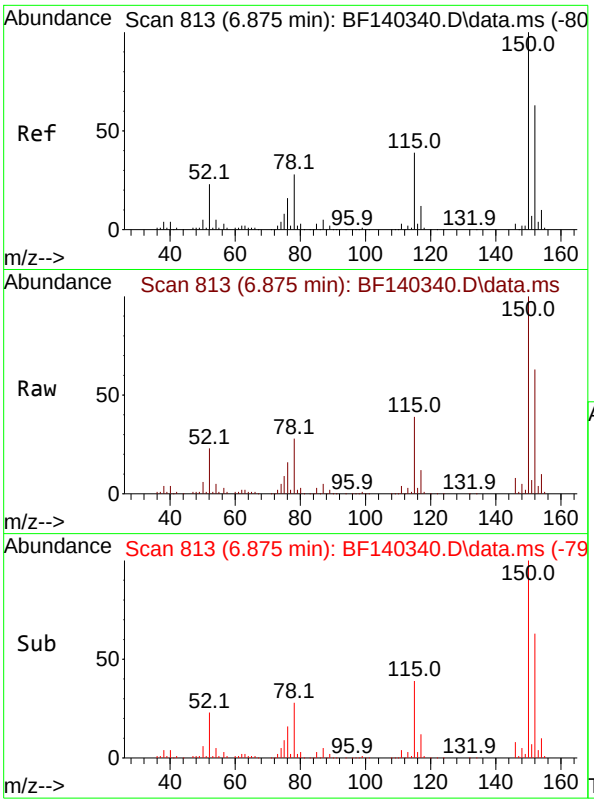
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140340.D
Acq On : 13 Nov 2024 12:48
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



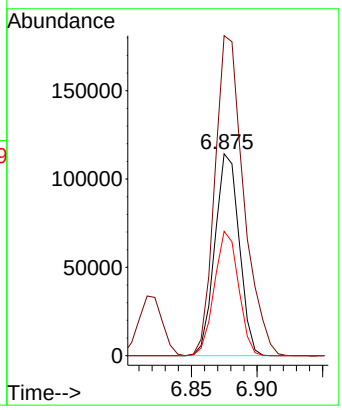


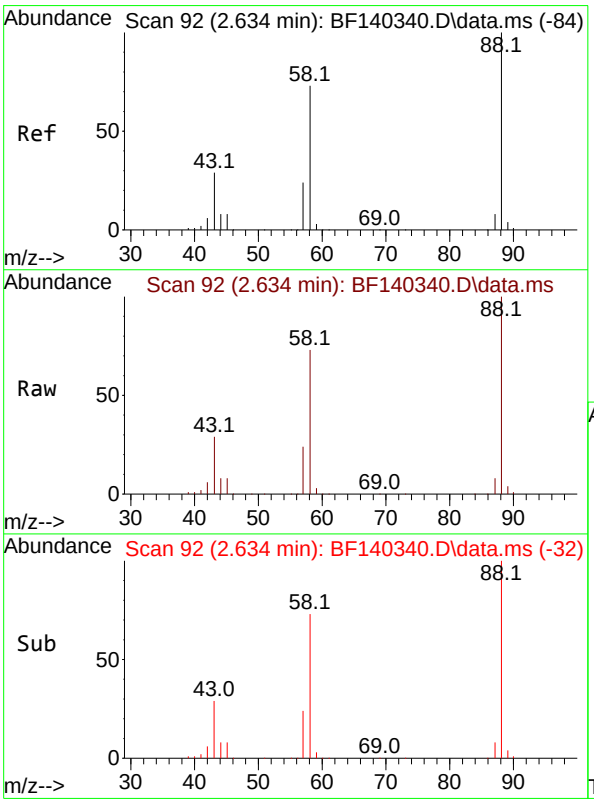
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 147186

Ion	Ratio	Lower	Upper
152	100		
150	158.5	127.4	191.0
115	61.6	47.4	71.2

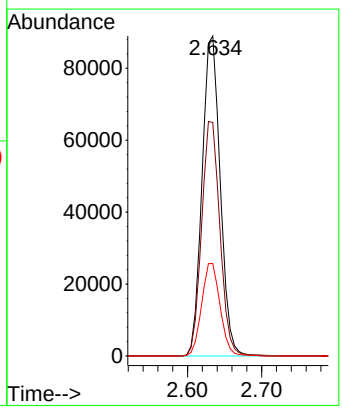


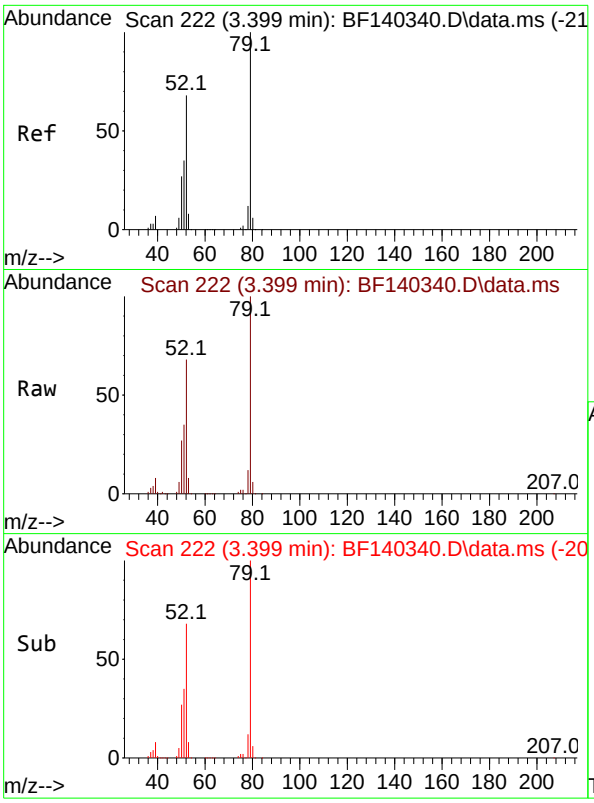


#2
1,4-Dioxane
Concen: 39.442 ng
RT: 2.634 min Scan# 92
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 88 Resp: 151541

Ion	Ratio	Lower	Upper
88	100		
58	73.8	59.5	89.3
43	29.4	23.4	35.2



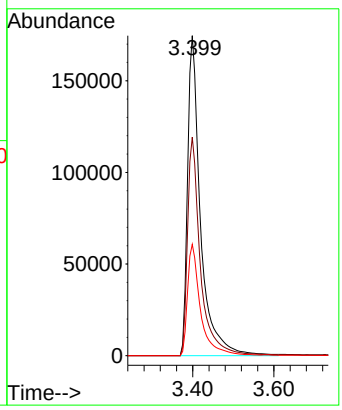


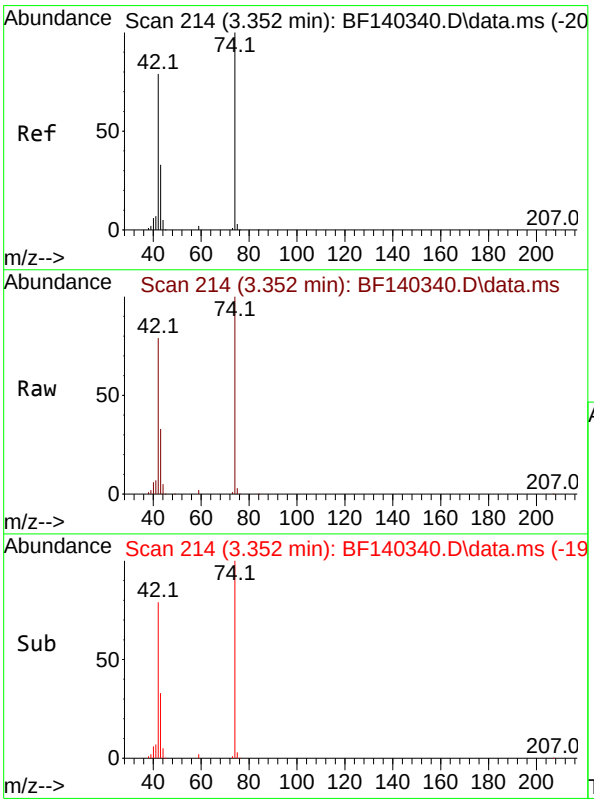
#3
Pyridine
Concen: 41.019 ng
RT: 3.399 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 387454

Ion	Ratio	Lower	Upper
79	100		
52	68.3	53.8	80.6
51	34.8	27.3	40.9

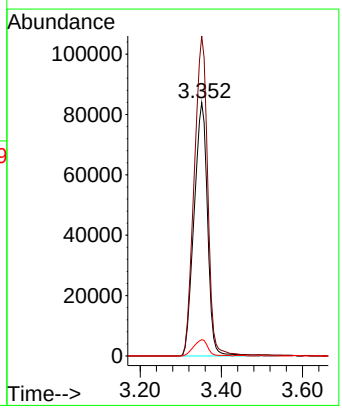


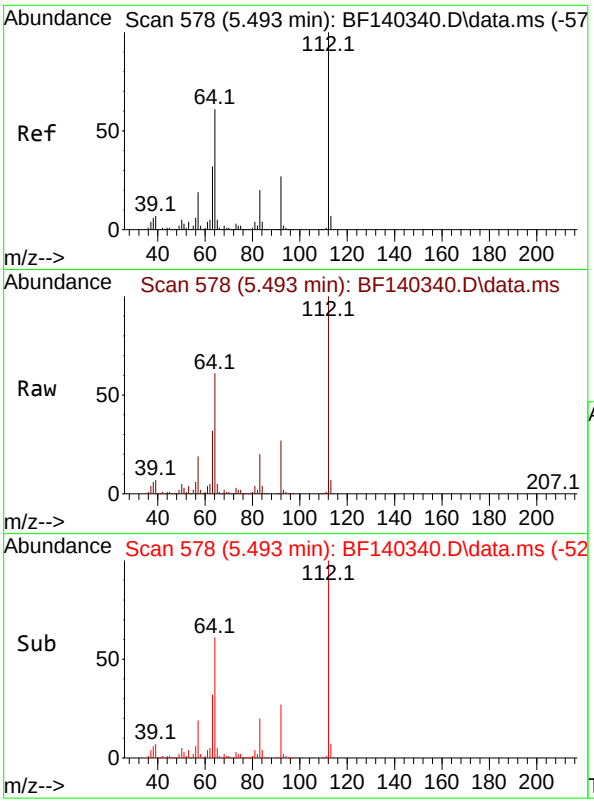


#4
n-Nitrosodimethylamine
Concen: 40.620 ng
RT: 3.352 min Scan# 214
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 42 Resp: 193917

Ion	Ratio	Lower	Upper
42	100		
74	126.3	103.5	155.3
44	6.4	5.1	7.7



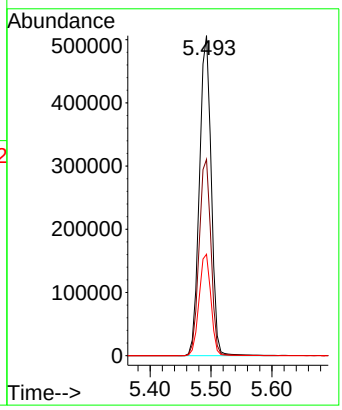


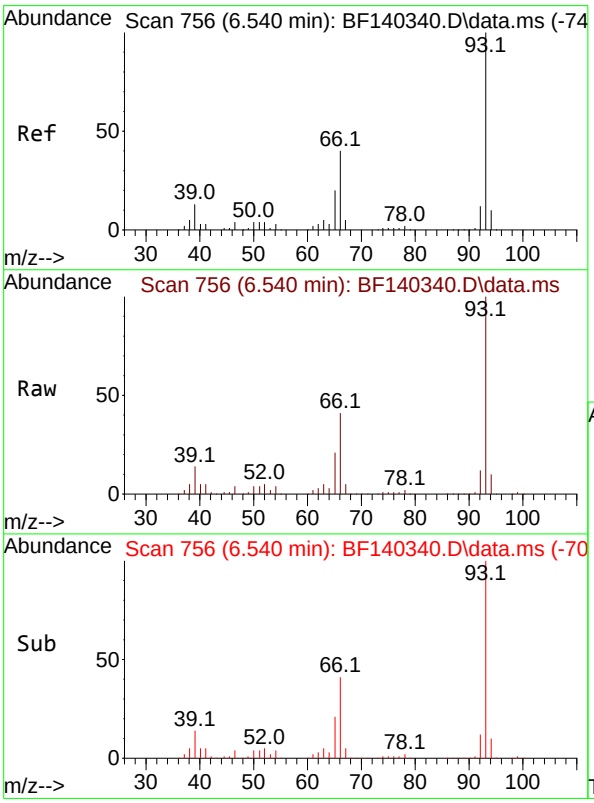
#5
2-Fluorophenol
Concen: 78.544 ng
RT: 5.493 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 677089

Ion	Ratio	Lower	Upper
112	100		
64	61.3	49.2	73.8
63	31.7	25.6	38.4

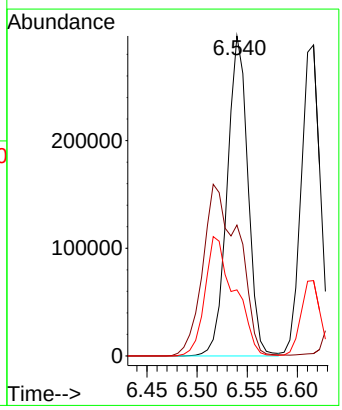


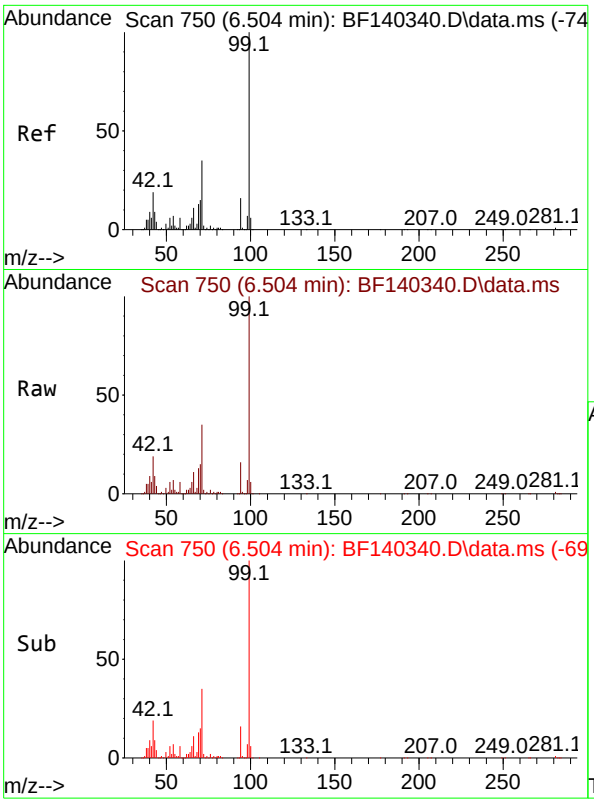


#6
Aniline
Concen: 42.052 ng
RT: 6.540 min Scan# 756
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 93 Resp: 427252

Ion	Ratio	Lower	Upper
93	100		
66	40.9	32.8	49.2
65	20.6	16.6	25.0



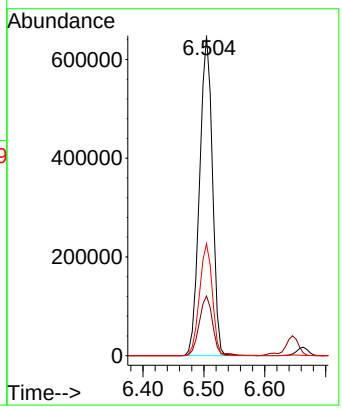


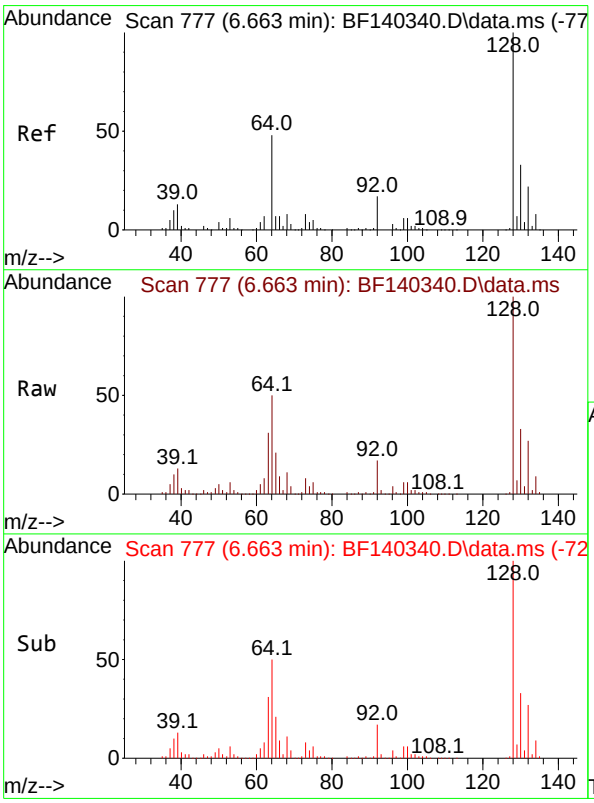
#7
Phenol-d6
Concen: 80.918 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 945074

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.1	22.7
71	35.0	27.9	41.9

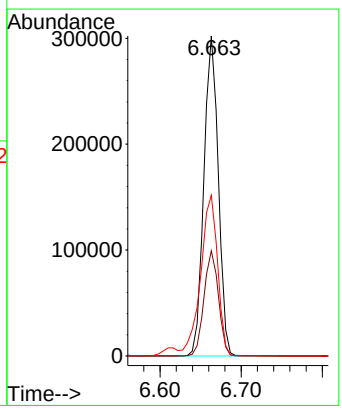


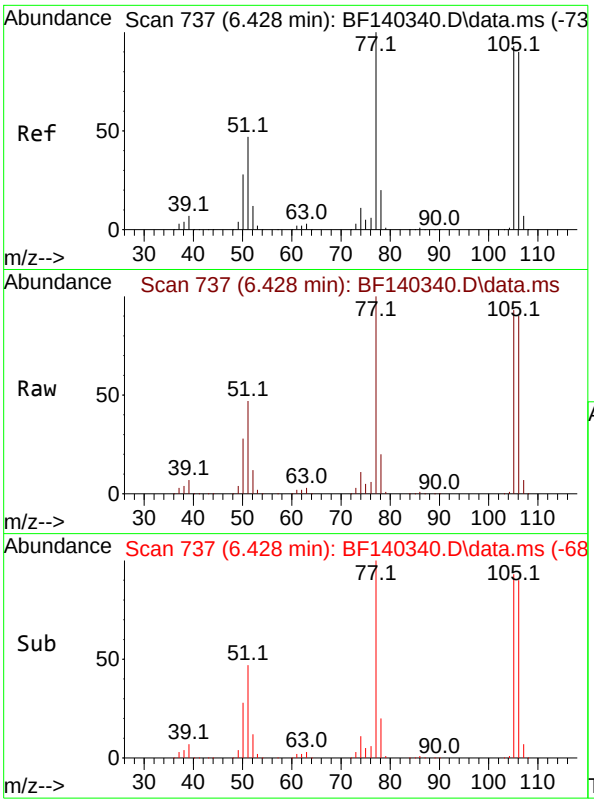


#8
2-Chlorophenol
Concen: 40.162 ng
RT: 6.663 min Scan# 777
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:128 Resp: 371904

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.2	52.2
64	50.2	30.2	70.2



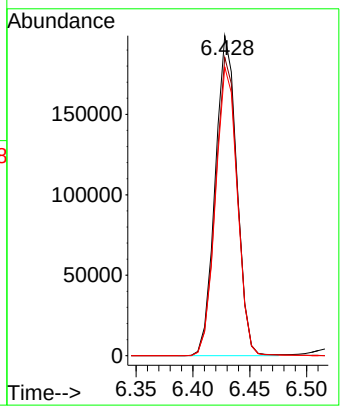


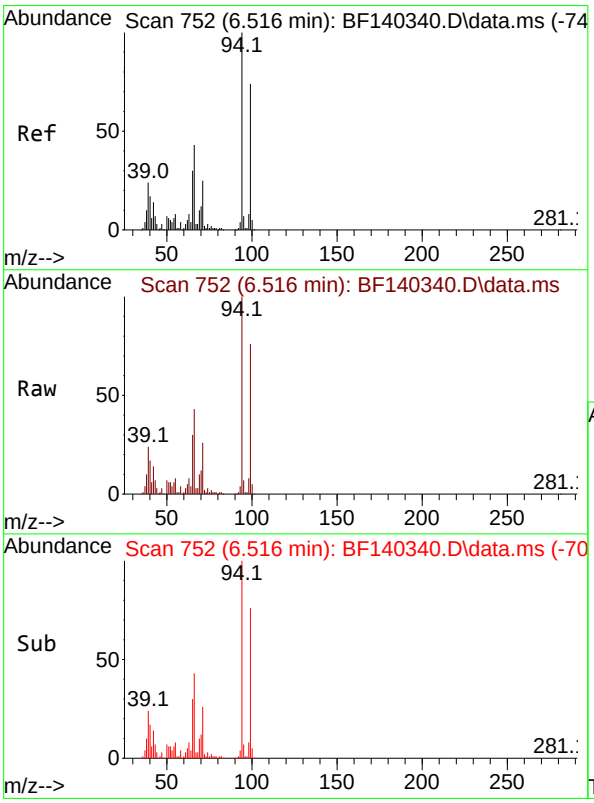
#9
Benzaldehyde
Concen: 37.479 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 262348

Ion	Ratio	Lower	Upper
77	100		
105	93.2	74.4	114.4
106	90.2	69.9	109.9

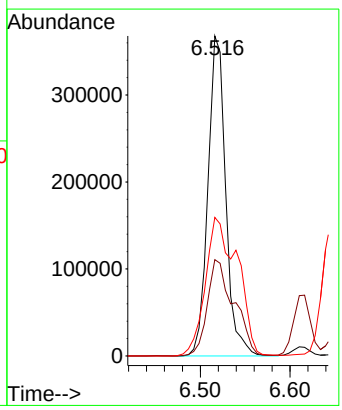


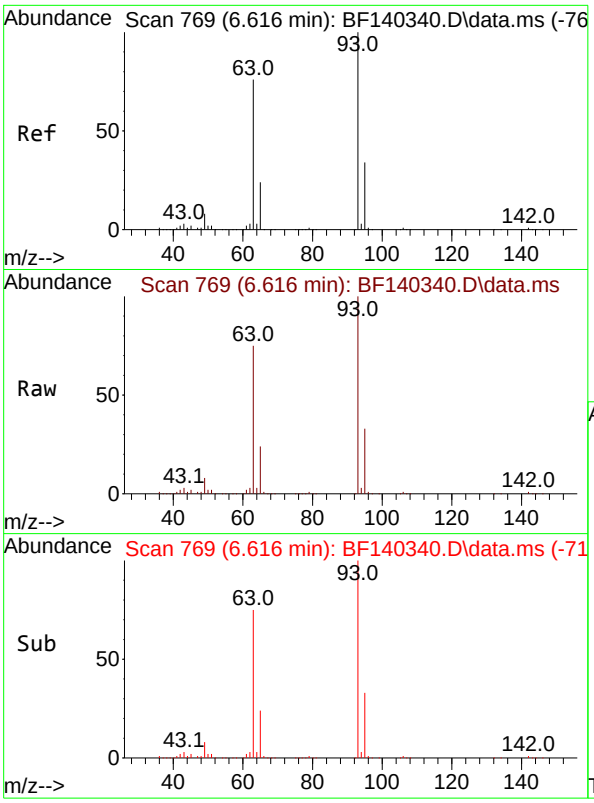


#10
Phenol
Concen: 41.199 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 94 Resp: 507443

Ion	Ratio	Lower	Upper
94	100		
65	30.1	10.4	50.4
66	43.3	22.9	62.9



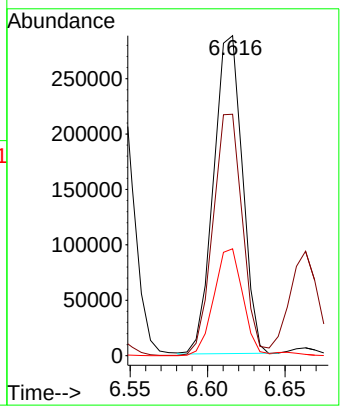


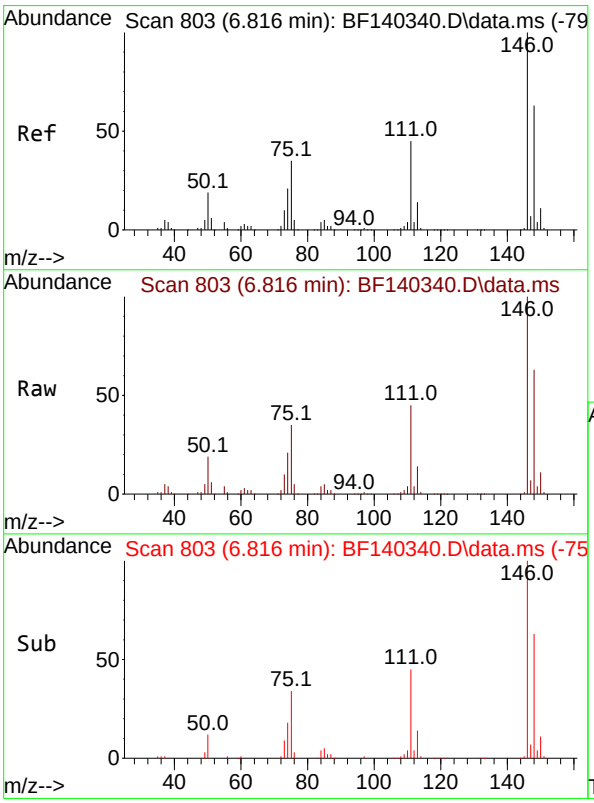
#11
bis(2-Chloroethyl)ether
Concen: 39.825 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 371673

Ion	Ratio	Lower	Upper
93	100		
63	75.5	54.0	94.0
95	33.4	12.9	52.9

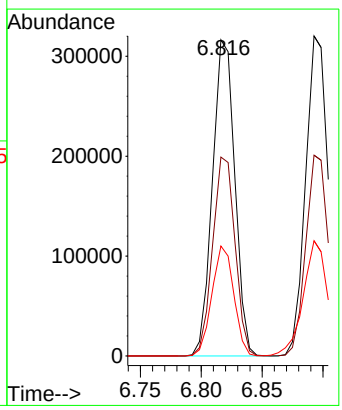


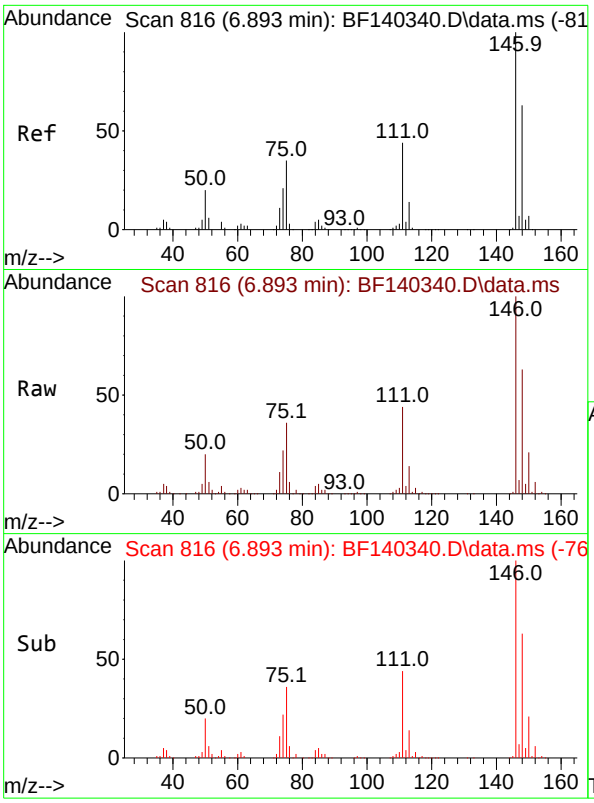


#12
1,3-Dichlorobenzene
Concen: 39.579 ng
RT: 6.816 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:146 Resp: 404387

Ion	Ratio	Lower	Upper
146	100		
148	62.9	50.7	76.1
75	34.8	26.4	39.6



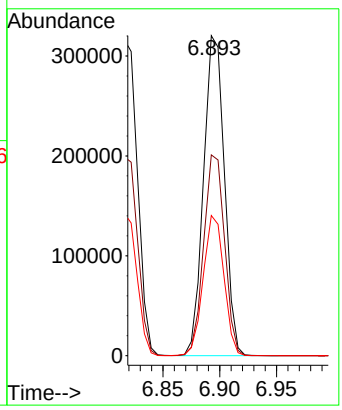


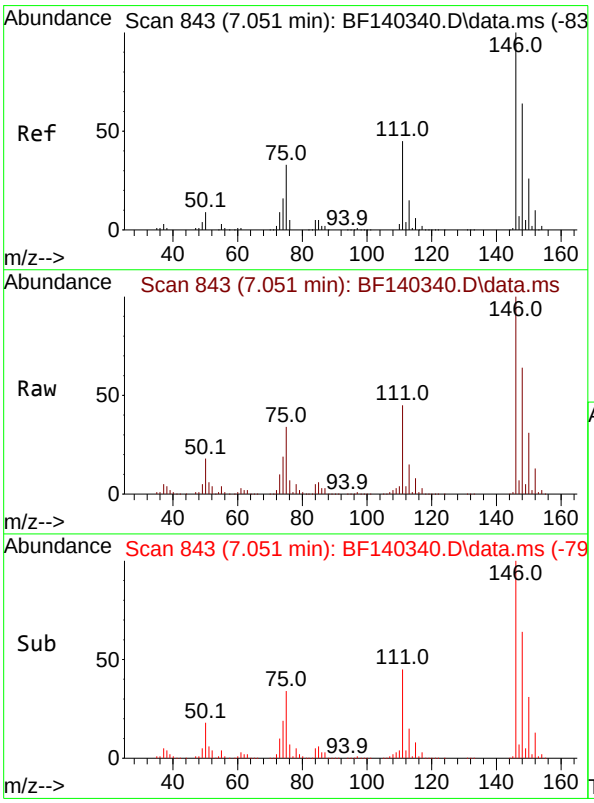
#13
1,4-Dichlorobenzene
Concen: 39.520 ng
RT: 6.893 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 409423

Ion	Ratio	Lower	Upper
146	100		
148	62.7	50.8	76.2
111	43.8	34.2	51.2

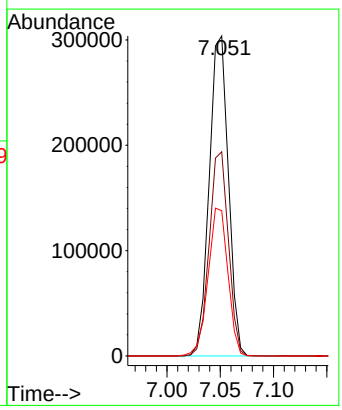


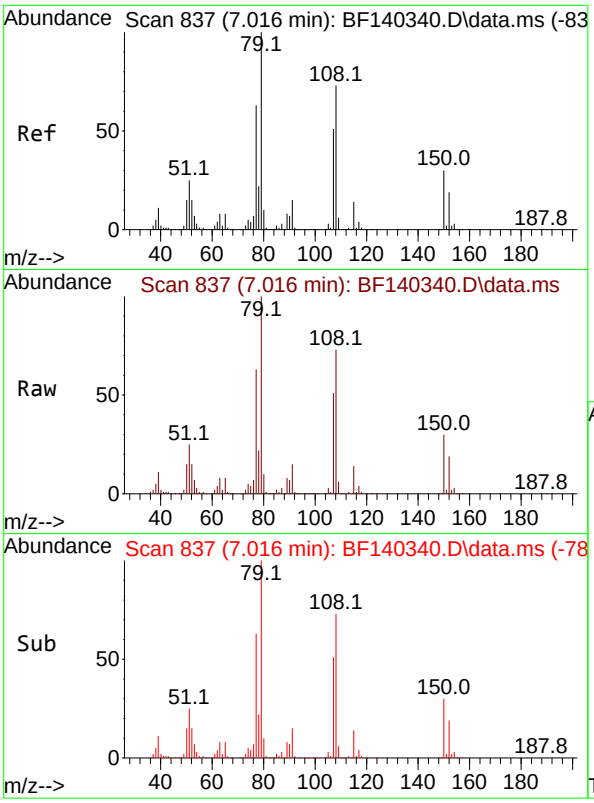


#14
1,2-Dichlorobenzene
Concen: 39.610 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:146 Resp: 380948

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.2	76.8
111	45.4	36.5	54.7



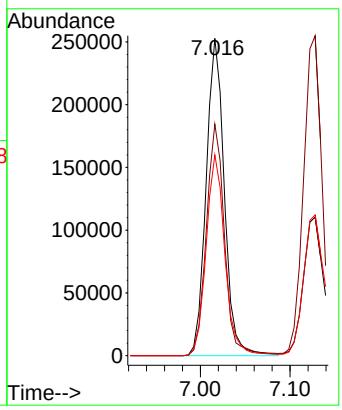


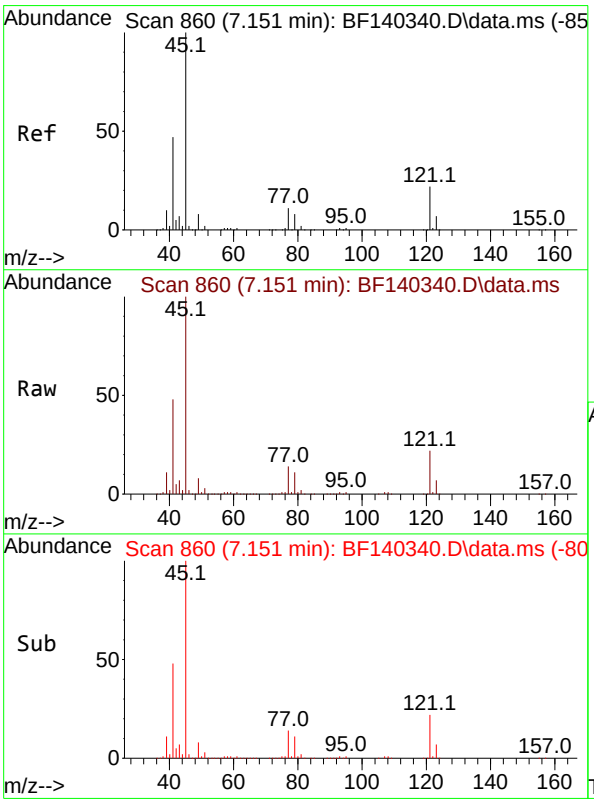
#15
Benzyl Alcohol
Concen: 42.357 ng
RT: 7.016 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 356418

Ion	Ratio	Lower	Upper
79	100		
108	73.0	57.8	86.6
77	63.3	49.8	74.6

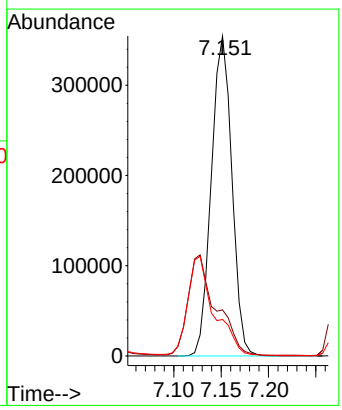


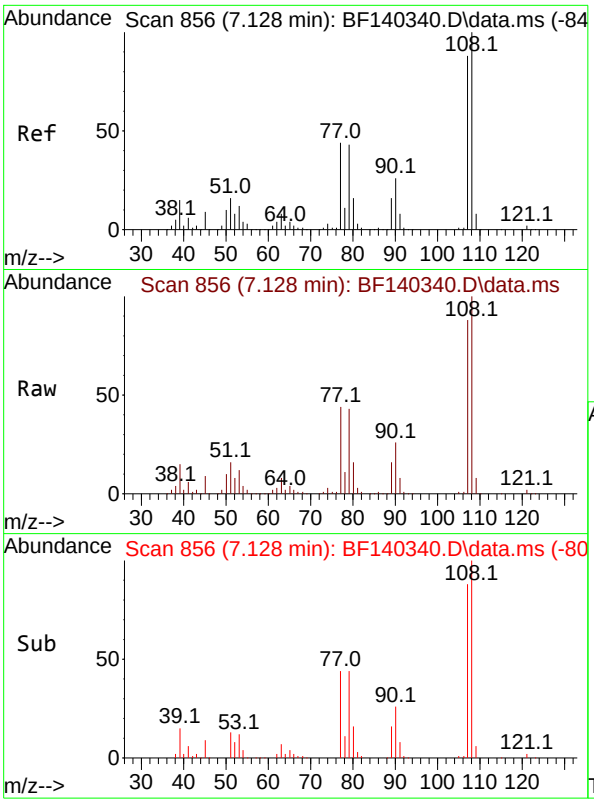


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.471 ng
RT: 7.151 min Scan# 860
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 45 Resp: 534596

Ion	Ratio	Lower	Upper
45	100		
77	14.4	0.0	34.8
79	11.4	0.0	31.4



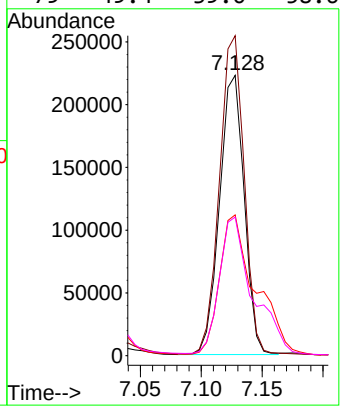


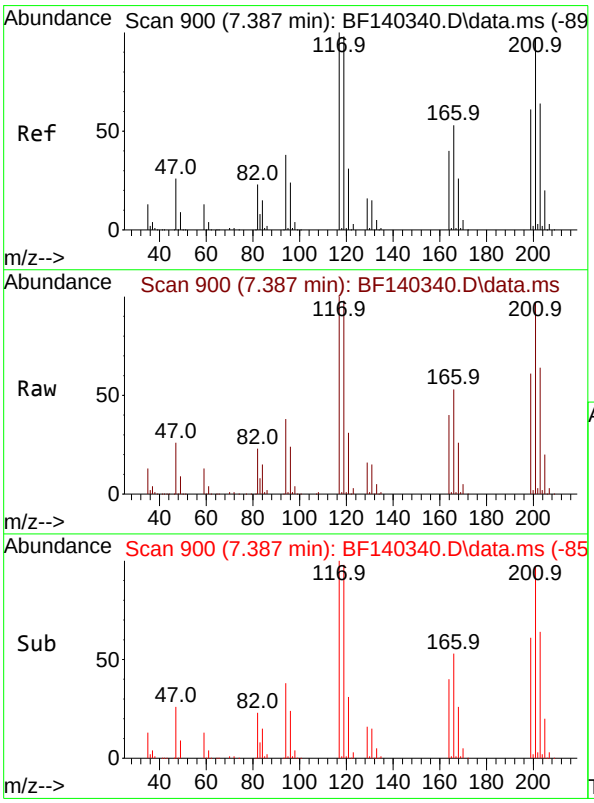
#17
2-Methylphenol
Concen: 41.105 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 313127

Ion	Ratio	Lower	Upper
107	100		
108	114.1	91.9	137.9
77	50.2	39.7	59.5
79	49.4	39.0	58.6

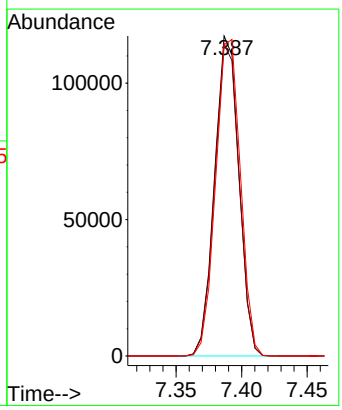


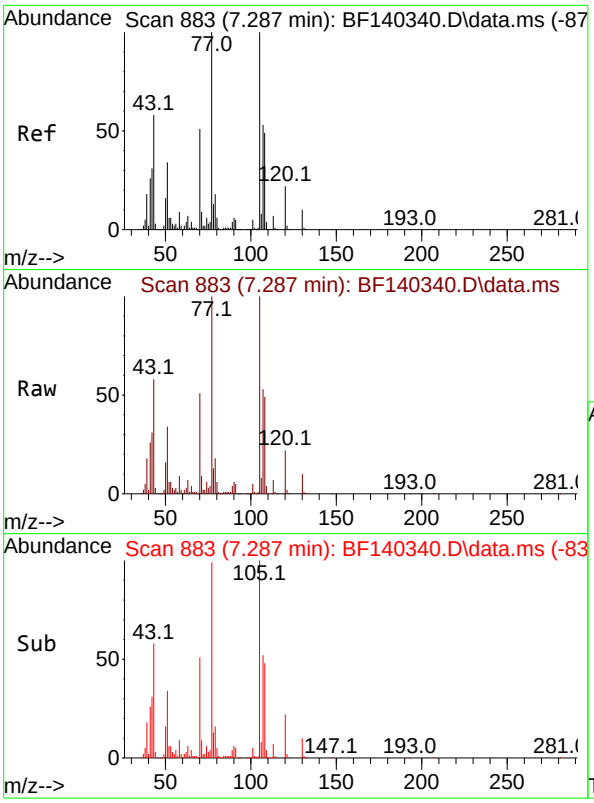


#18
Hexachloroethane
Concen: 39.519 ng
RT: 7.387 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:117 Resp: 151355

Ion	Ratio	Lower	Upper
117	100		
119	97.6	76.9	115.3
201	97.3	80.2	120.4



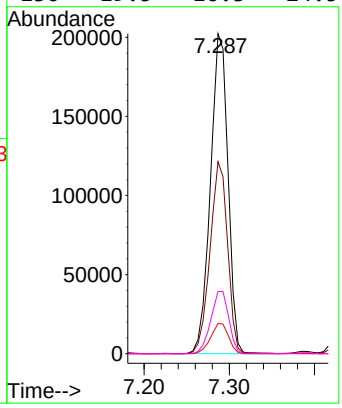


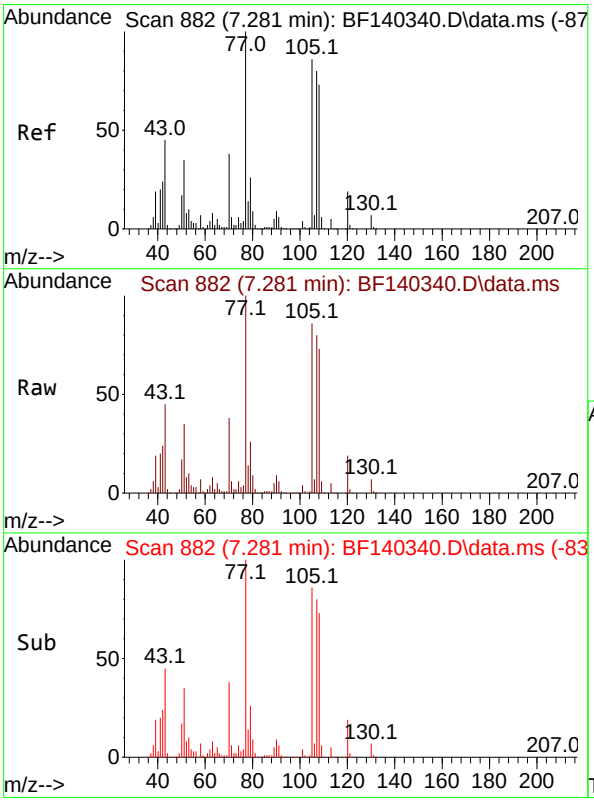
#19
n-Nitroso-di-n-propylamine
Concen: 40.966 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 288974

Ion	Ratio	Lower	Upper
70	100		
42	60.0	46.8	70.2
101	9.4	7.5	11.3
130	19.5	16.3	24.5

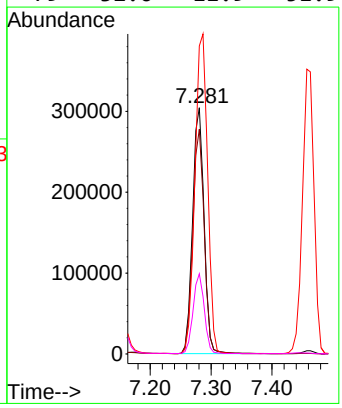


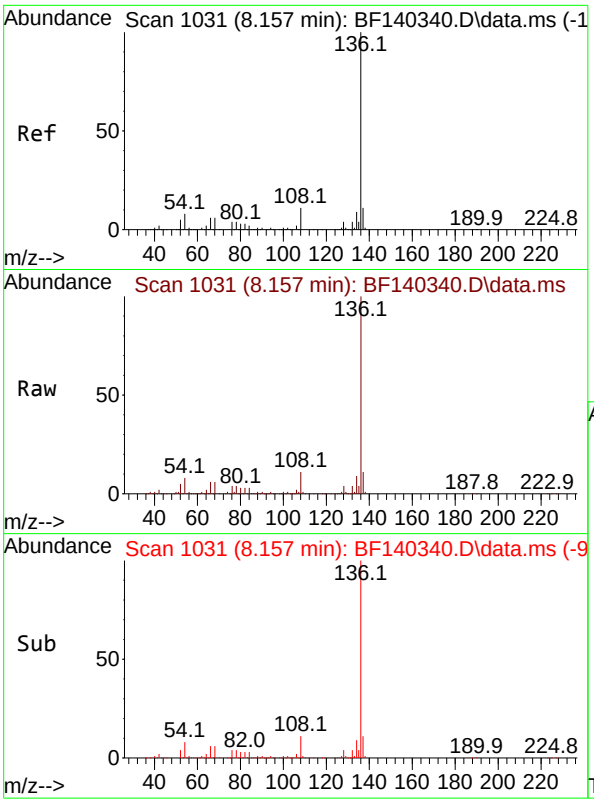


#20
3+4-Methylphenols
Concen: 41.745 ng
RT: 7.281 min Scan# 882
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:107 Resp: 397692

Ion	Ratio	Lower	Upper
107	100		
108	91.3	71.4	111.4
77	125.1	97.0	137.0
79	32.6	11.9	51.9



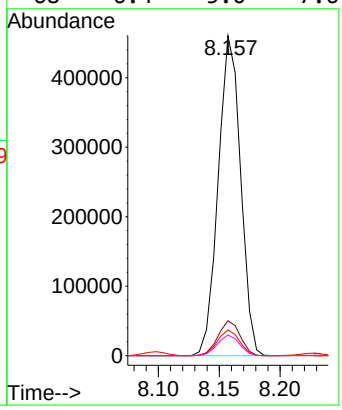


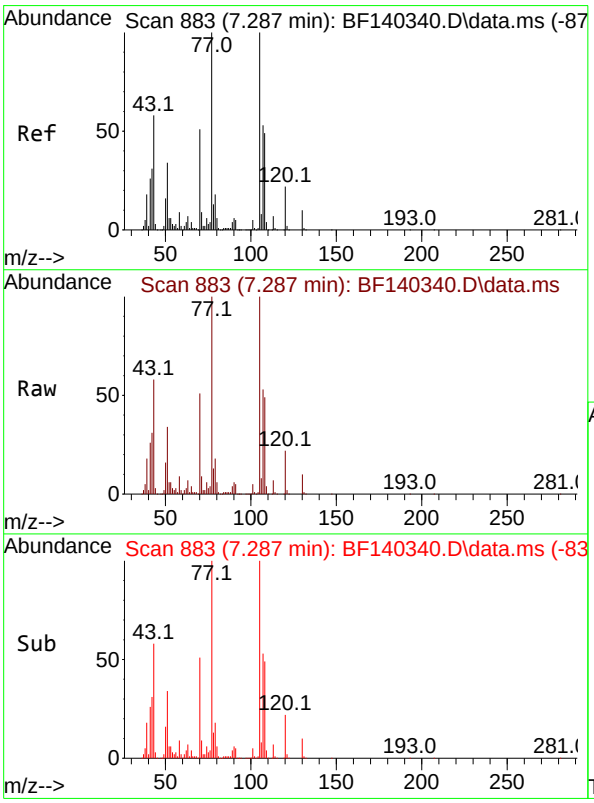
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 589077

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	8.1	6.5	9.7
68	6.4	5.0	7.6

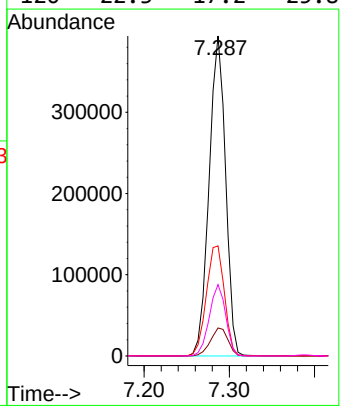


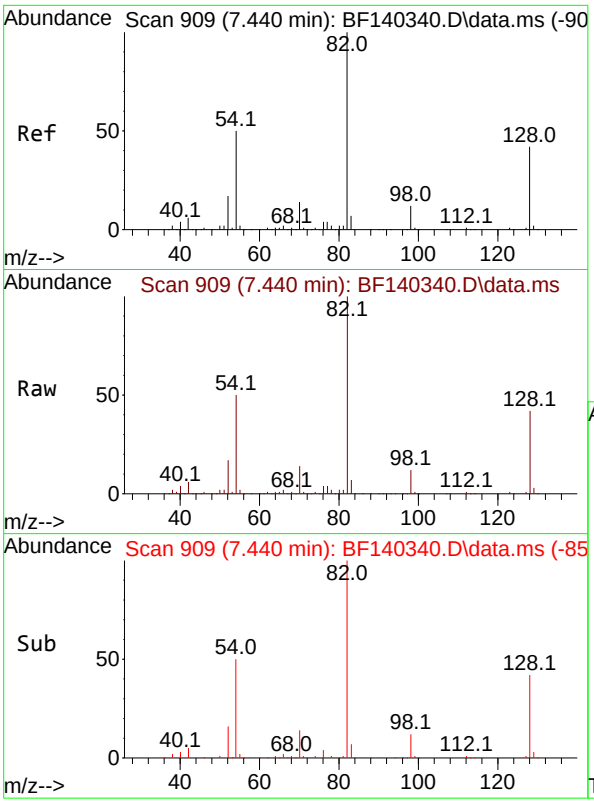


#22
Acetophenone
Concen: 38.662 ng
RT: 7.287 min Scan# 883
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:105 Resp: 529699

Ion	Ratio	Lower	Upper
105	100		
71	8.7	6.9	10.3
51	34.4	28.6	43.0
120	22.3	17.2	25.8



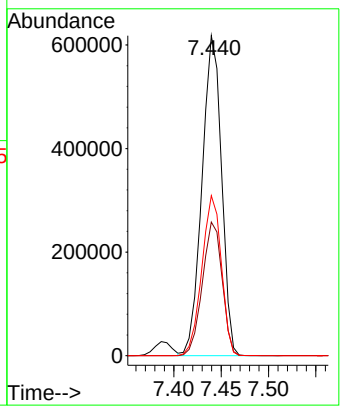


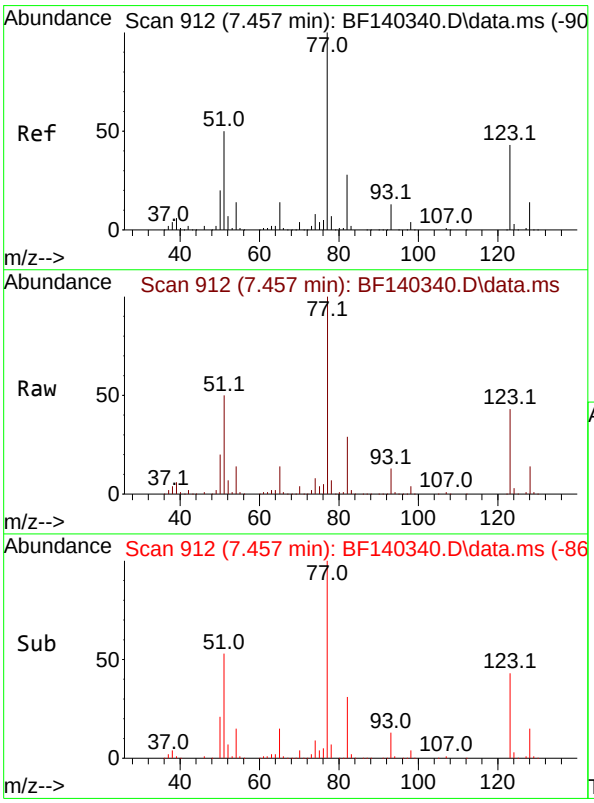
#23
Nitrobenzene-d5
Concen: 78.210 ng
RT: 7.440 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 884247

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.3	49.9
54	50.0	39.8	59.8

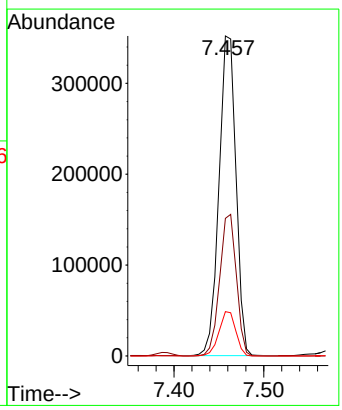


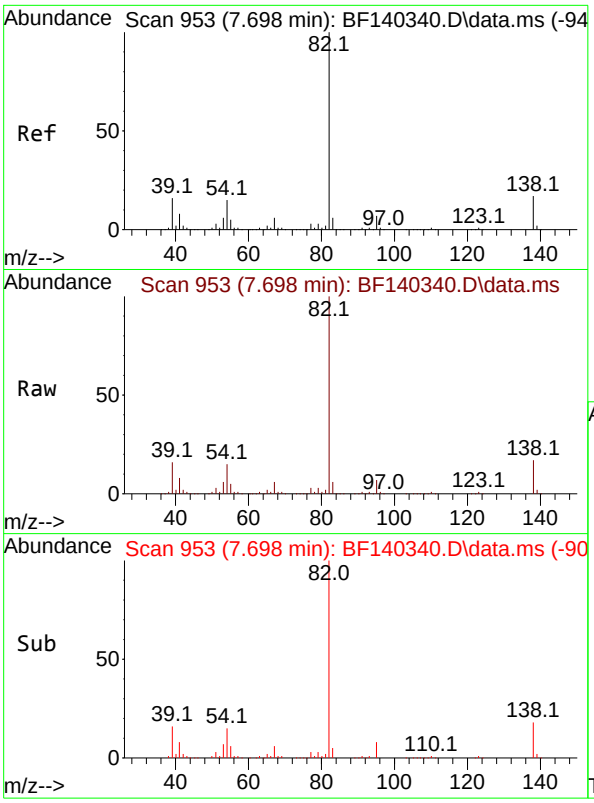


#24
Nitrobenzene
Concen: 39.307 ng
RT: 7.457 min Scan# 912
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 77 Resp: 462701

Ion	Ratio	Lower	Upper
77	100		
123	43.0	35.4	53.0
65	13.8	11.1	16.7



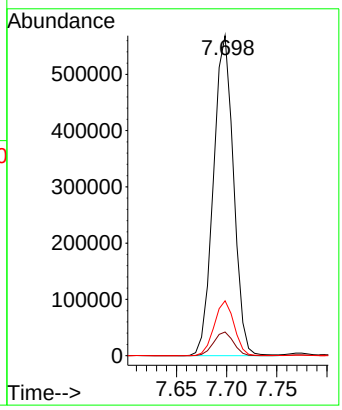


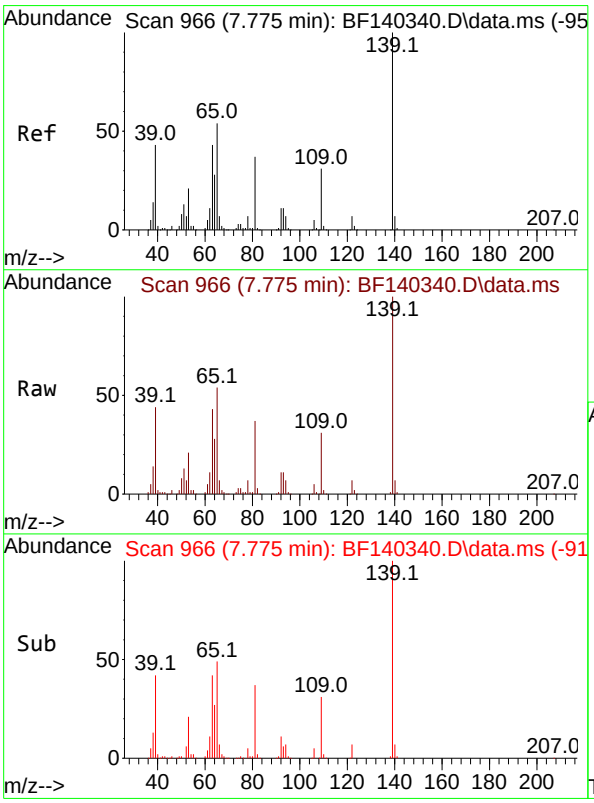
#25
Isophorone
Concen: 39.616 ng
RT: 7.698 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 793806

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.9	8.9
138	17.2	13.4	20.2

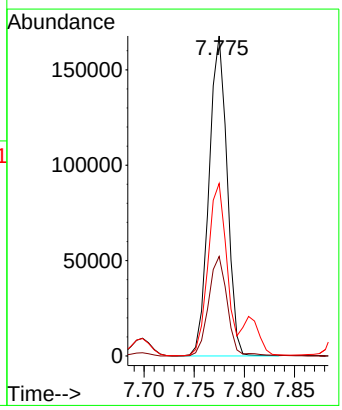


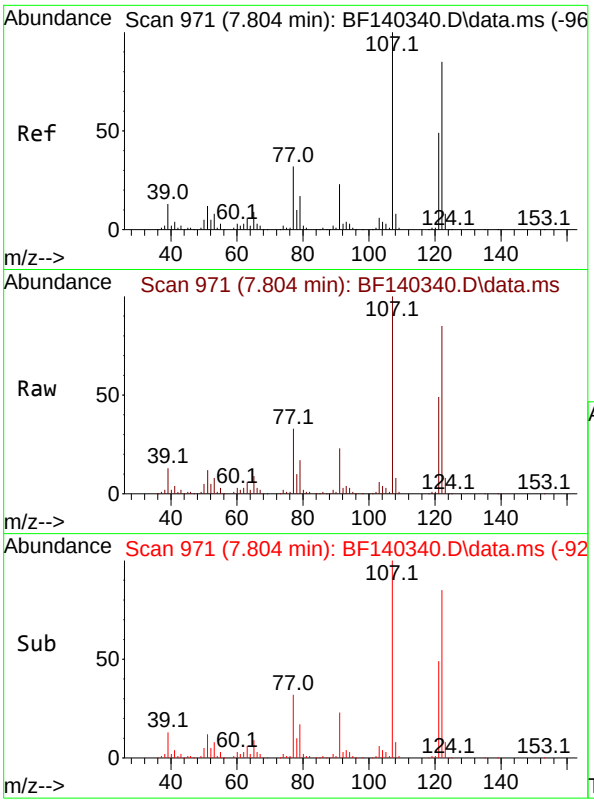


#26
2-Nitrophenol
Concen: 40.366 ng
RT: 7.775 min Scan# 966
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:139 Resp: 210859

Ion	Ratio	Lower	Upper
139	100		
109	31.1	24.4	36.6
65	53.9	42.8	64.2



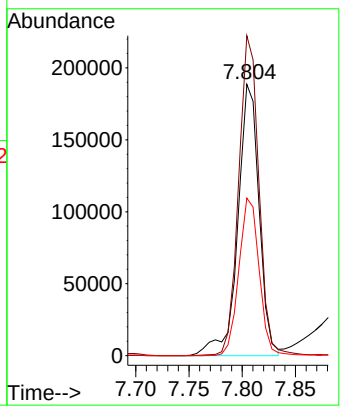


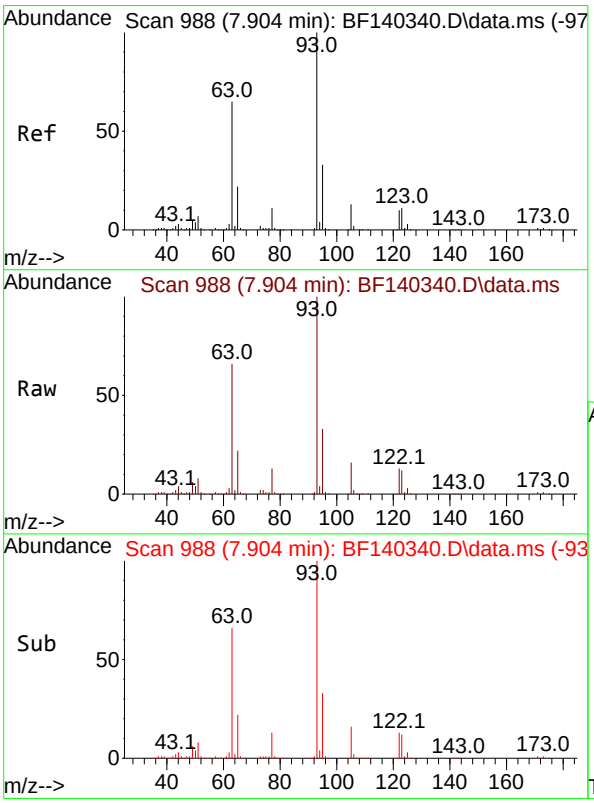
#27
2,4-Dimethylphenol
Concen: 39.222 ng
RT: 7.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 262308

Ion	Ratio	Lower	Upper
122	100		
107	117.9	91.3	136.9
121	58.1	45.5	68.3

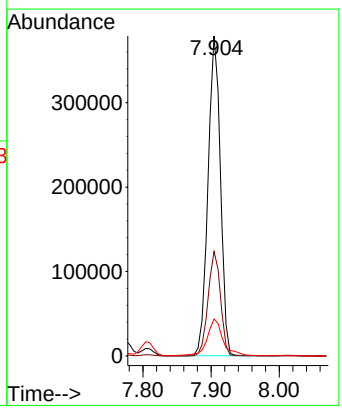


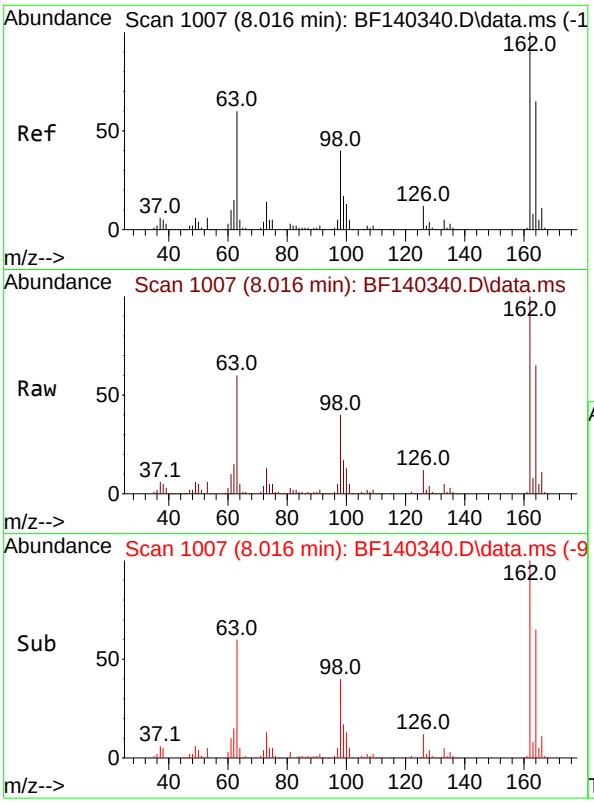


#28
bis(2-Chloroethoxy)methane
Concen: 39.027 ng
RT: 7.904 min Scan# 988
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 93 Resp: 479505

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.9	38.9
123	11.6	9.2	13.8



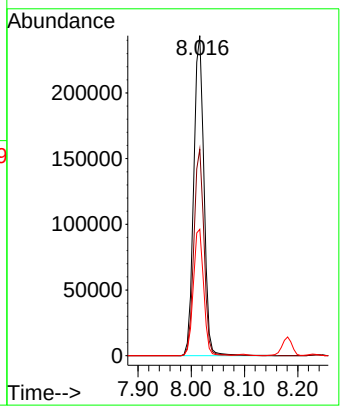


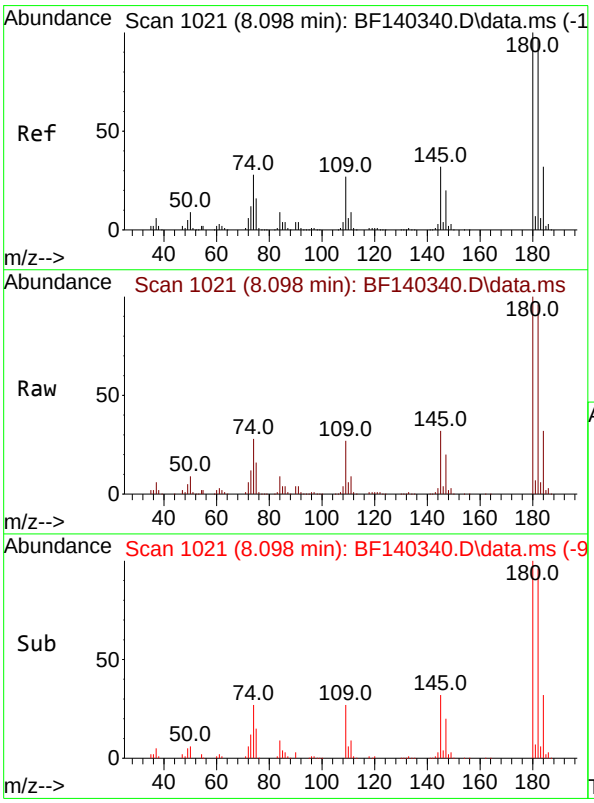
#29
2,4-Dichlorophenol
Concen: 39.193 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 323936

Ion	Ratio	Lower	Upper
162	100		
164	64.6	45.4	85.4
98	39.5	19.9	59.9

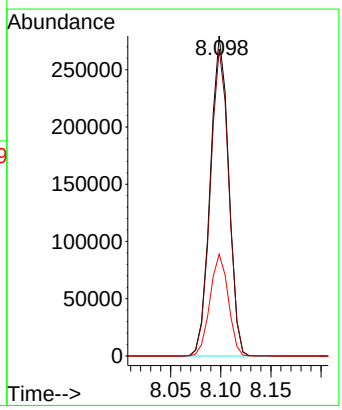


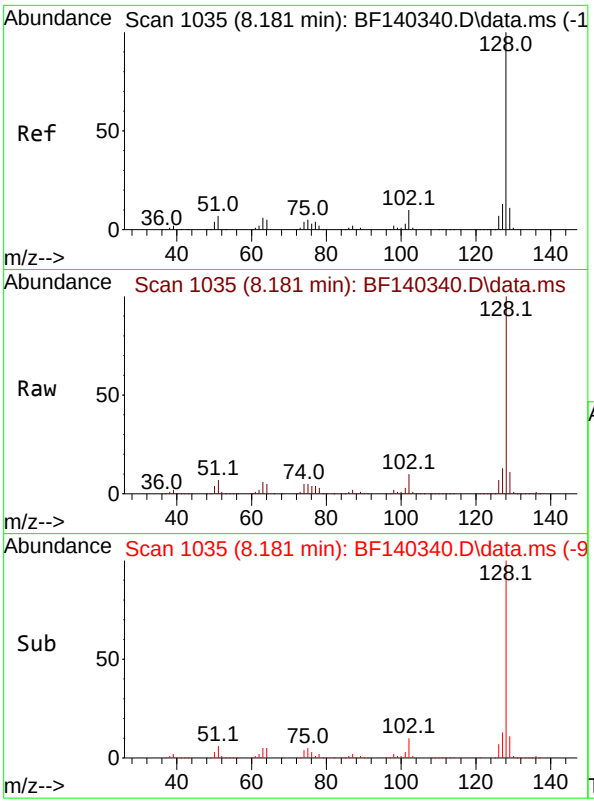


#30
1,2,4-Trichlorobenzene
Concen: 38.619 ng
RT: 8.098 min Scan# 1021
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:180 Resp: 355366

Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.5	114.7
145	31.8	25.3	37.9



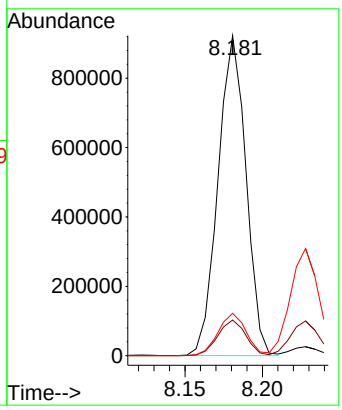


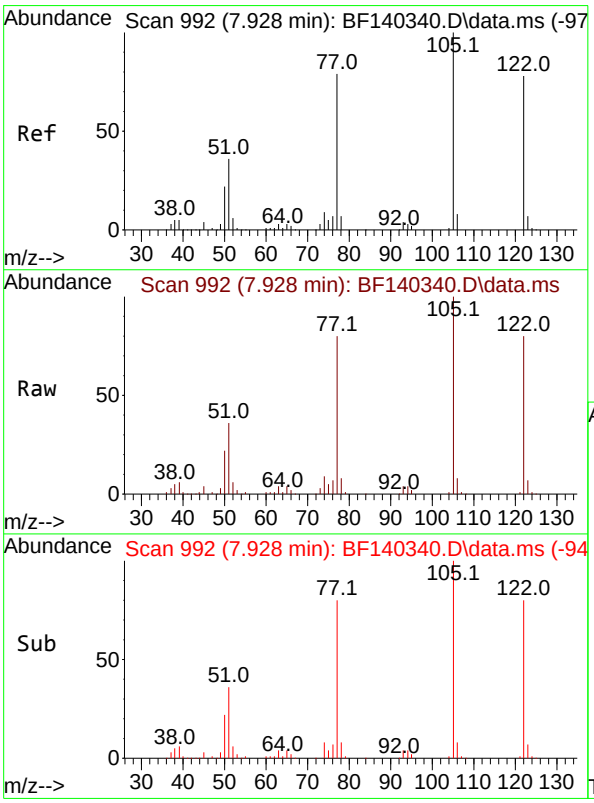
#31
Naphthalene
Concen: 38.723 ng
RT: 8.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 1157149

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.6	15.8

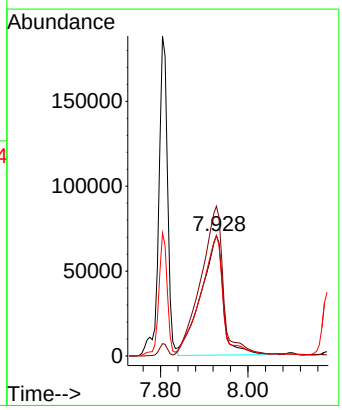


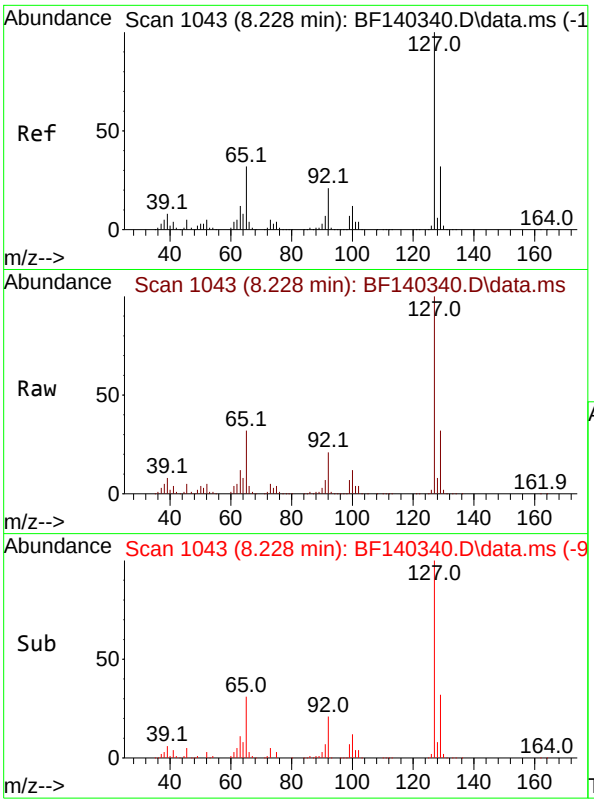


#32
Benzoic acid
Concen: 42.449 ng
RT: 7.928 min Scan# 992
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:122 Resp: 249383

Ion	Ratio	Lower	Upper
122	100		
105	124.5	100.9	140.9
77	100.1	76.0	116.0



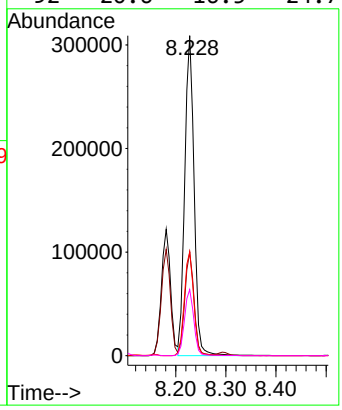


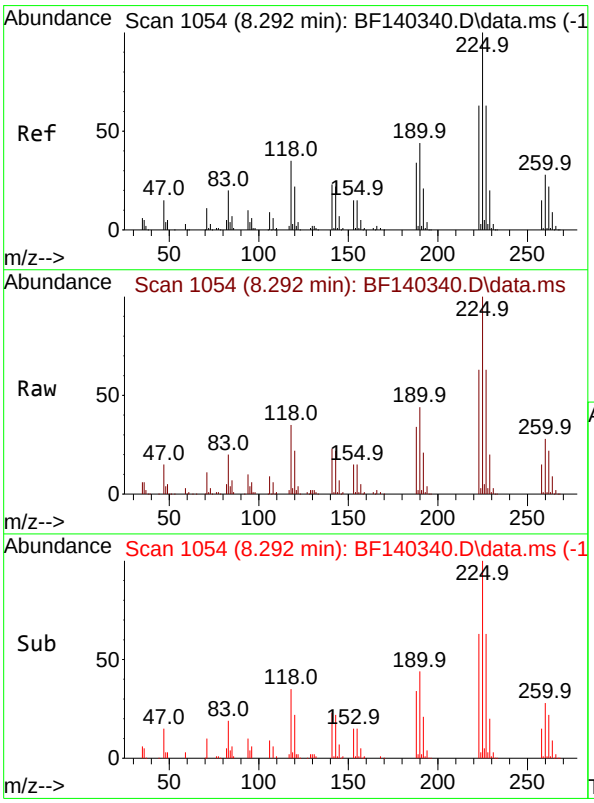
#33
4-Chloroaniline
Concen: 38.516 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 400271

Ion	Ratio	Lower	Upper
127	100		
129	32.3	26.2	39.4
65	32.5	25.8	38.6
92	20.6	16.5	24.7

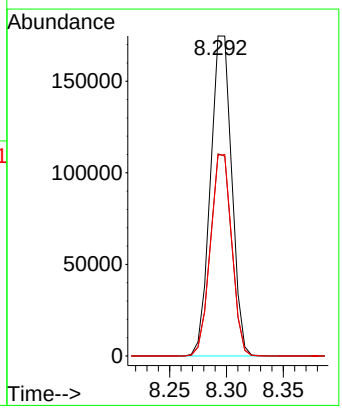


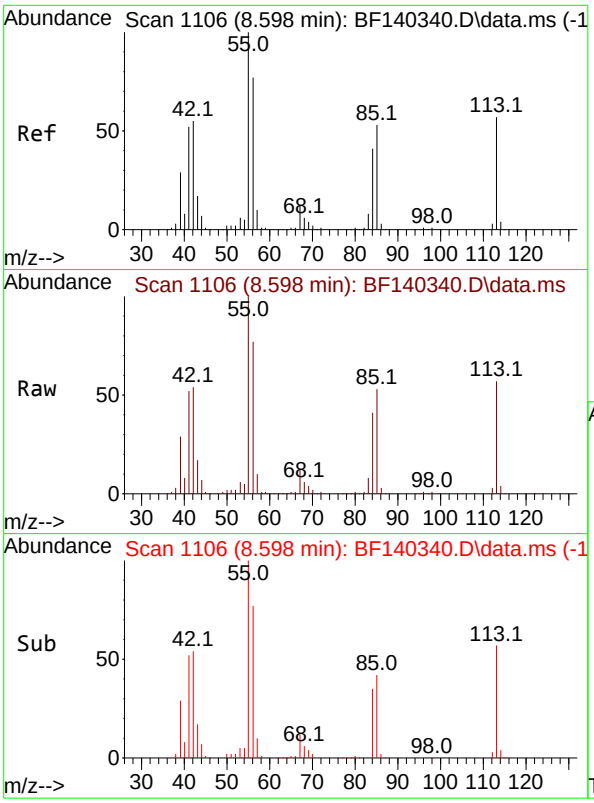


#34
Hexachlorobutadiene
Concen: 38.855 ng
RT: 8.292 min Scan# 1054
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:225 Resp: 227805

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.1	75.1
227	62.8	51.3	76.9



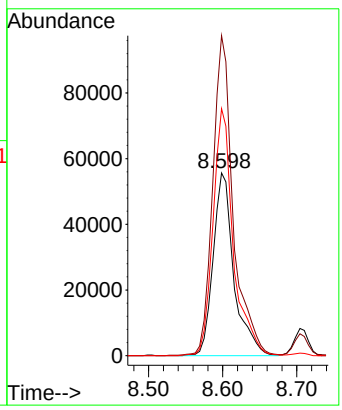


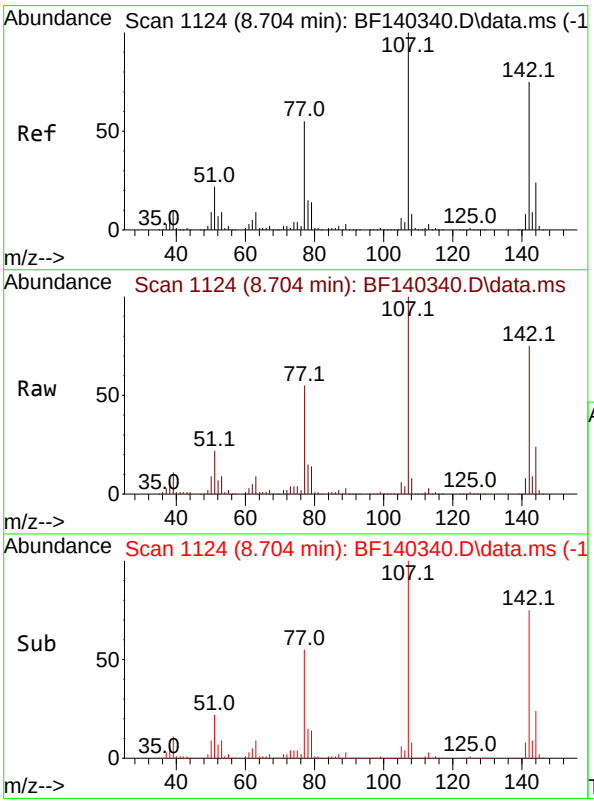
#35
Caprolactam
Concen: 38.943 ng
RT: 8.598 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 108216

Ion	Ratio	Lower	Upper
113	100		
55	175.2	150.0	190.0
56	135.2	111.1	151.1

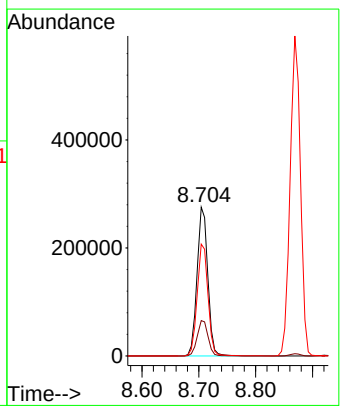


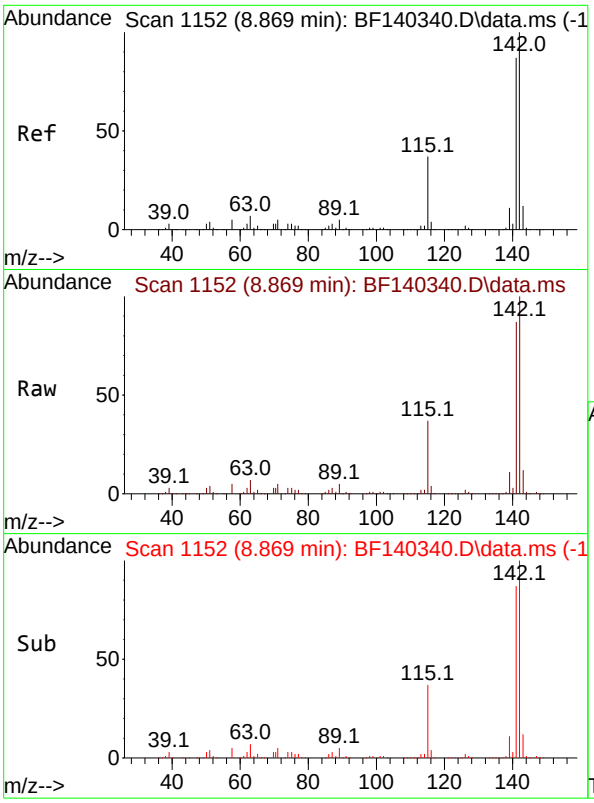


#36
4-Chloro-3-methylphenol
Concen: 39.766 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:107 Resp: 364230

Ion	Ratio	Lower	Upper
107	100		
144	23.8	19.3	28.9
142	75.1	59.4	89.0



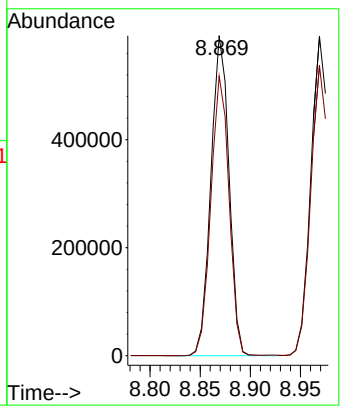


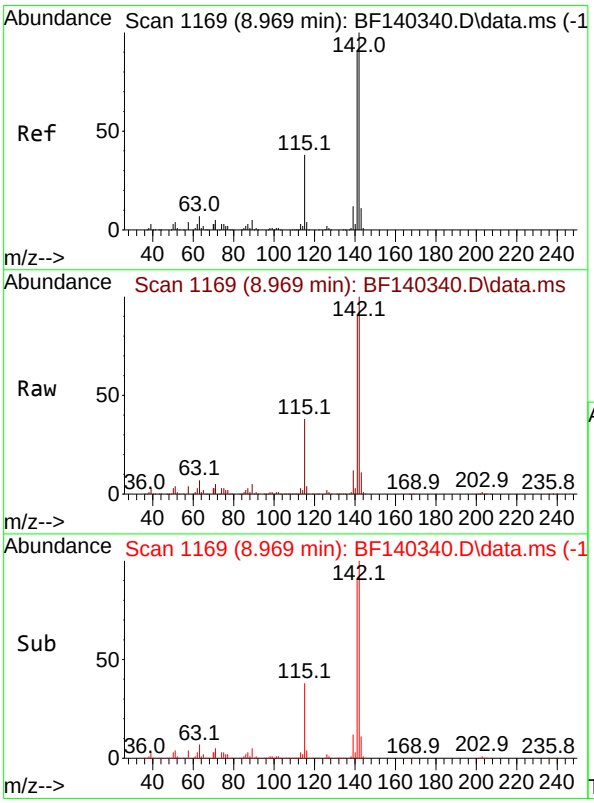
#37
2-Methylnaphthalene
Concen: 38.839 ng
RT: 8.869 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 744201

Ion	Ratio	Lower	Upper
142	100		
141	87.4	70.4	105.6

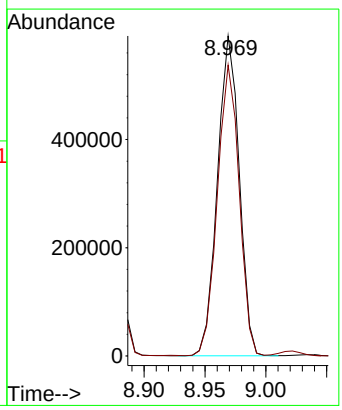


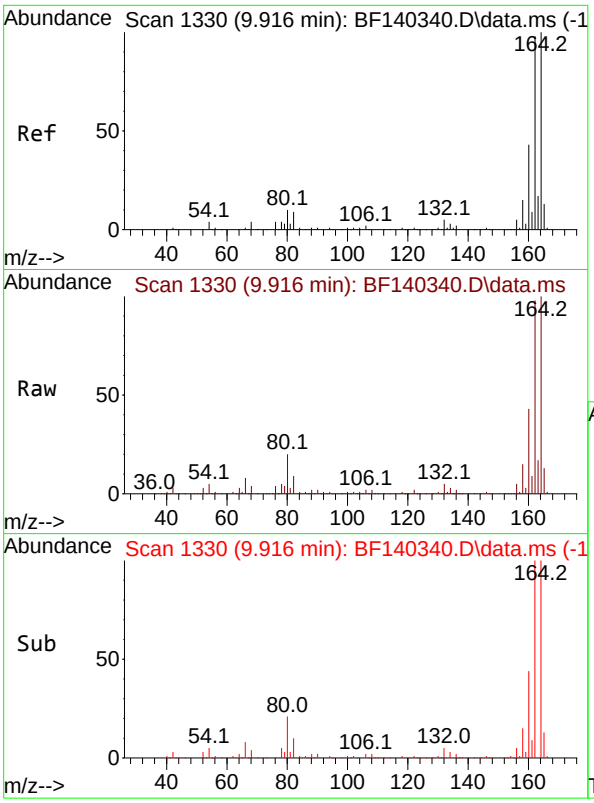


#38
1-Methylnaphthalene
Concen: 39.267 ng
RT: 8.969 min Scan# 1169
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:142 Resp: 736798

Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.6	110.4



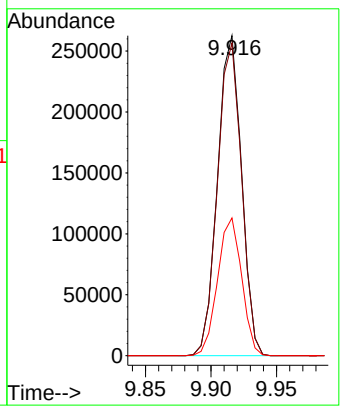


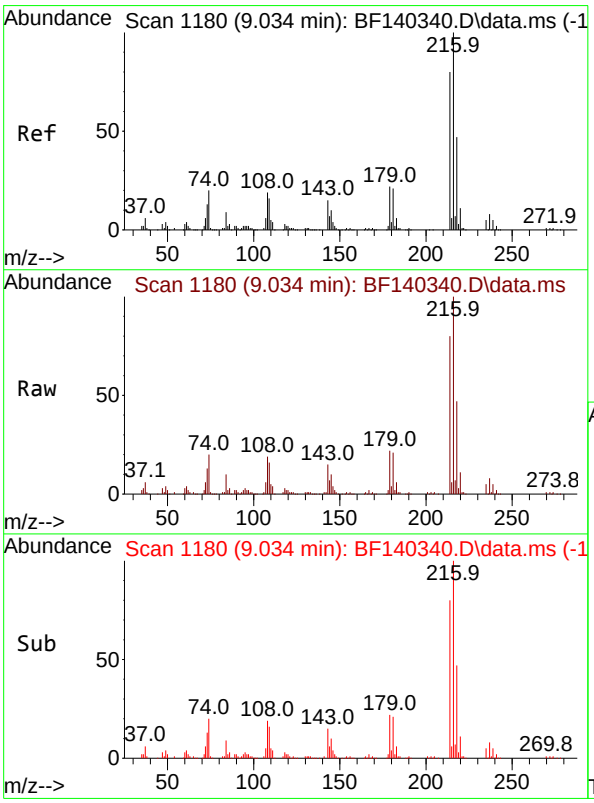
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 334544

Ion	Ratio	Lower	Upper
164	100		
162	97.7	79.8	119.8
160	43.0	35.4	53.0

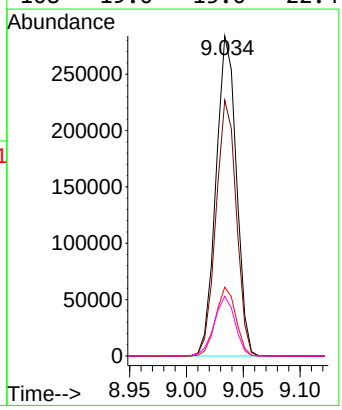


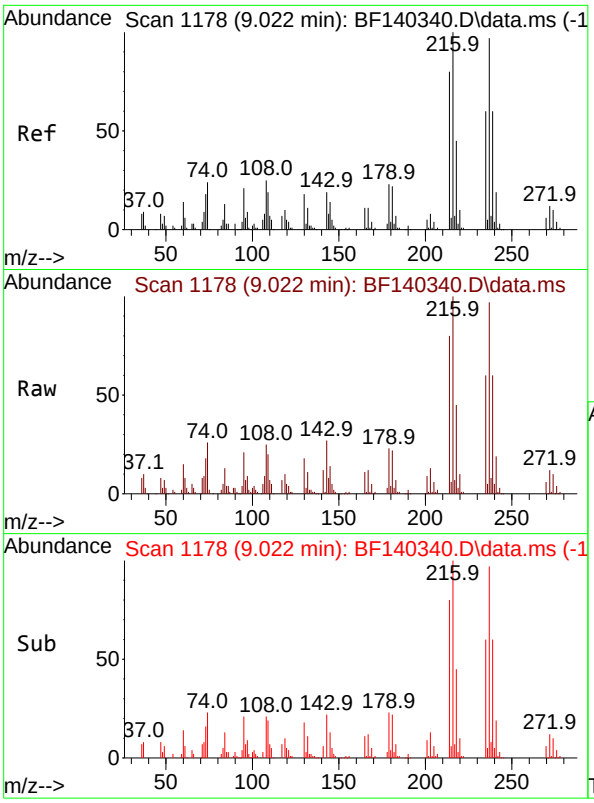


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.371 ng
RT: 9.034 min Scan# 1180
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:216 Resp: 354978

Ion	Ratio	Lower	Upper
216	100		
214	79.6	63.2	94.8
179	21.2	17.2	25.8
108	19.0	15.0	22.4



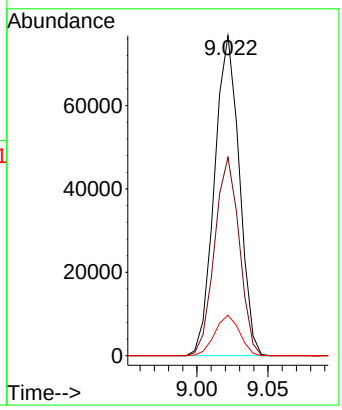


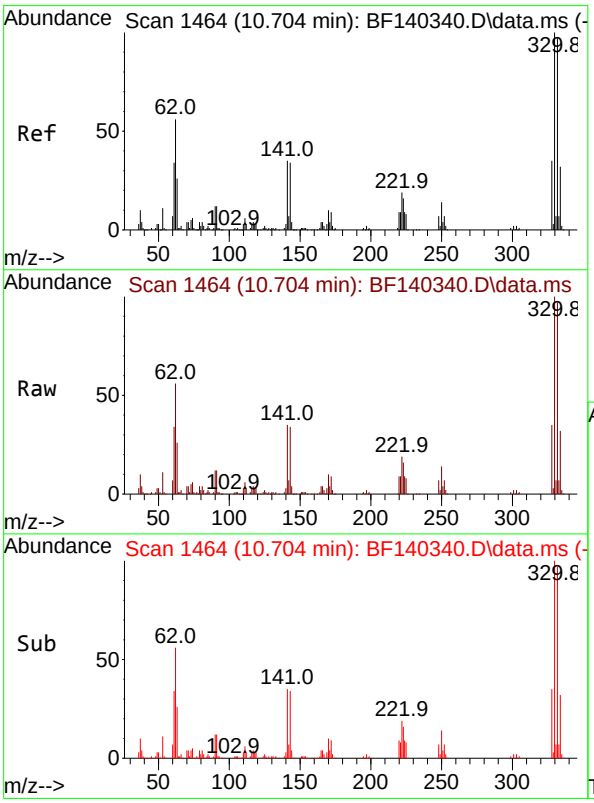
#41
Hexachlorocyclopentadiene
Concen: 39.207 ng
RT: 9.022 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 93127

Ion	Ratio	Lower	Upper
237	100		
235	62.0	42.8	82.8
272	12.7	0.0	33.1

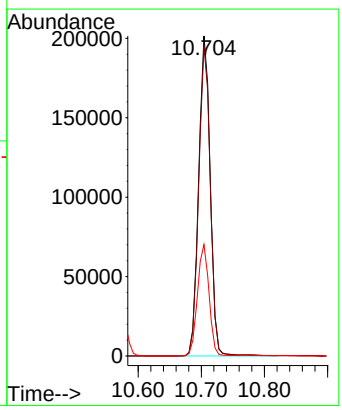


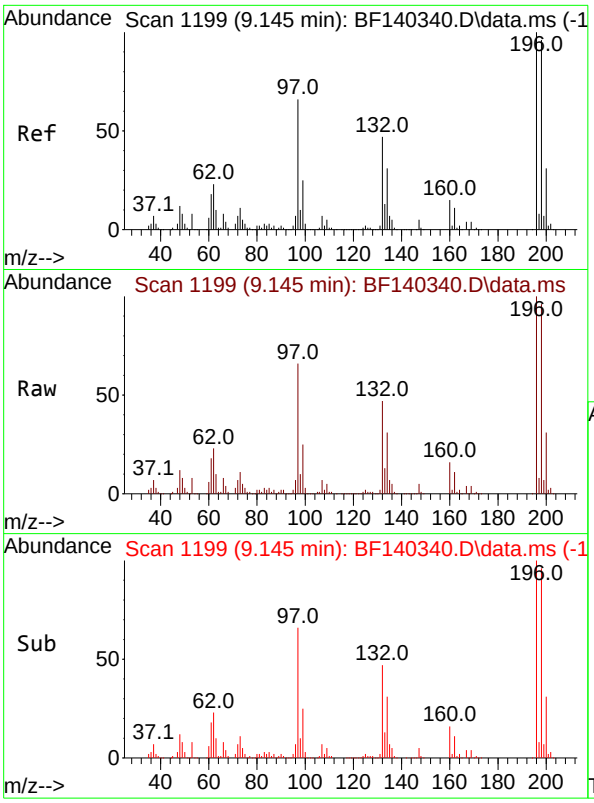


#42
2,4,6-Tribromophenol
Concen: 77.449 ng
RT: 10.704 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:330 Resp: 257655

Ion	Ratio	Lower	Upper
330	100		
332	96.8	75.9	113.9
141	34.6	26.9	40.3



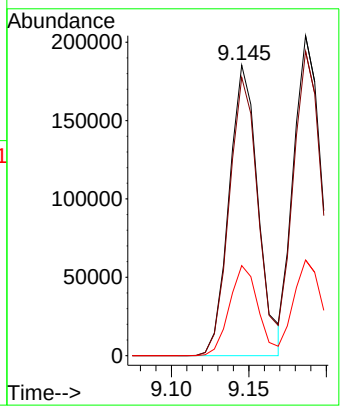


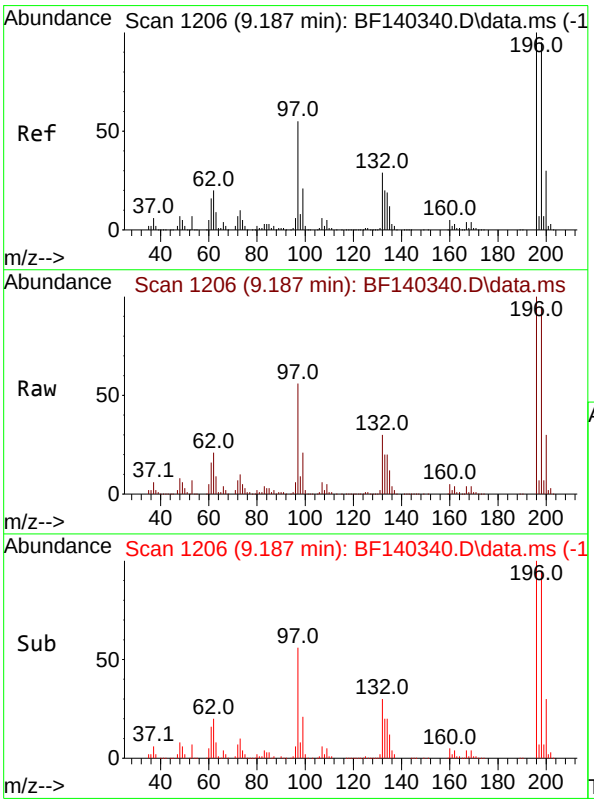
#43
2,4,6-Trichlorophenol
Concen: 39.666 ng
RT: 9.145 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 240824

Ion	Ratio	Lower	Upper
196	100		
198	95.8	77.0	115.4
200	31.0	24.2	36.4

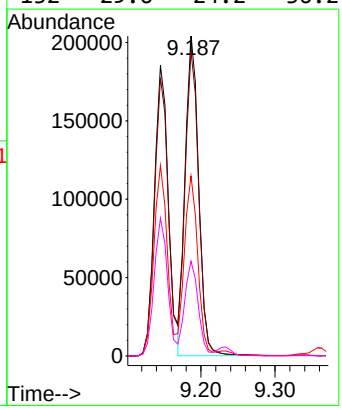


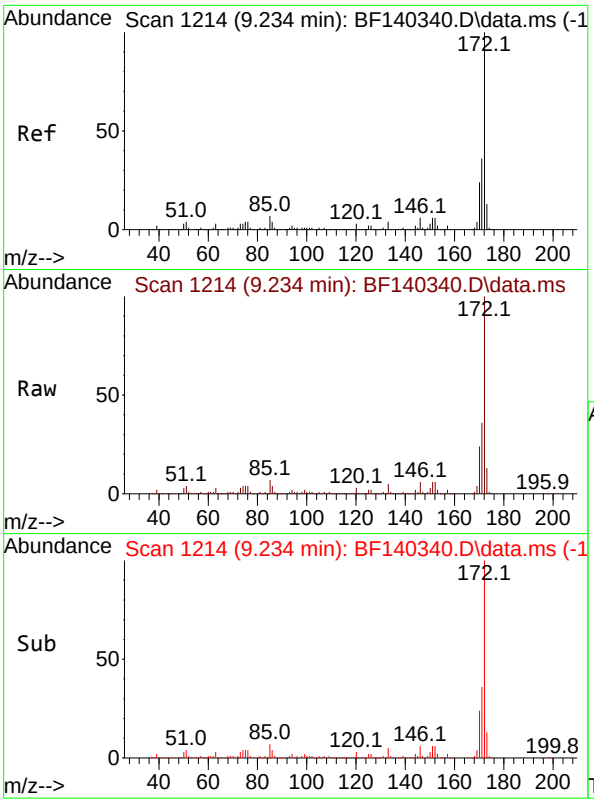


#44
2,4,5-Trichlorophenol
Concen: 39.190 ng
RT: 9.187 min Scan# 1206
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:196 Resp: 260135

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.6	116.4
97	56.2	45.4	68.2
132	29.6	24.2	36.2



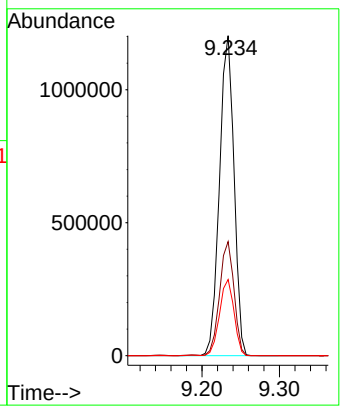


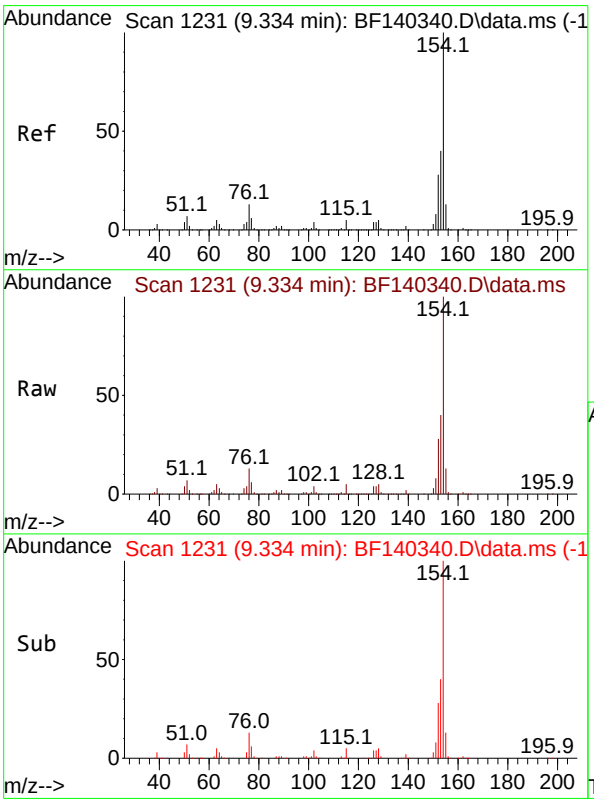
#45
2-Fluorobiphenyl
Concen: 75.369 ng
RT: 9.234 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 1568502

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.5	42.7
170	23.8	19.1	28.7

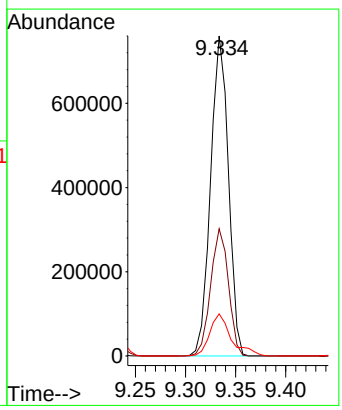


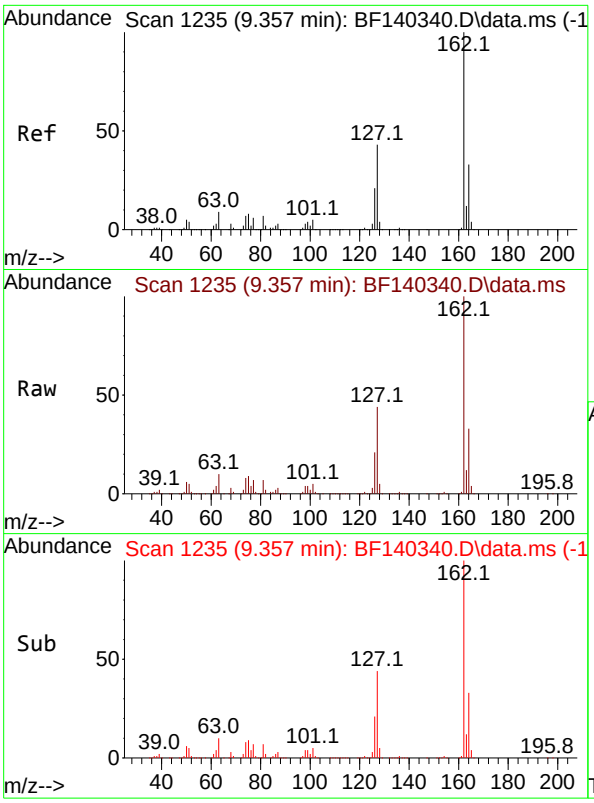


#46
1,1'-Biphenyl
Concen: 38.605 ng
RT: 9.334 min Scan# 1231
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:154 Resp: 939571

Ion	Ratio	Lower	Upper
154	100		
153	39.7	20.4	60.4
76	13.2	0.0	32.9



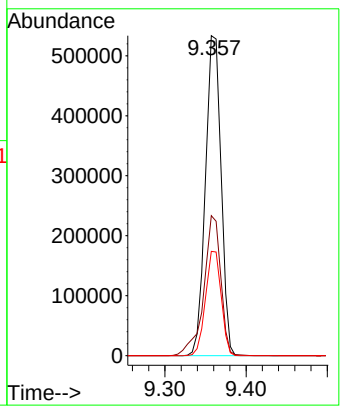


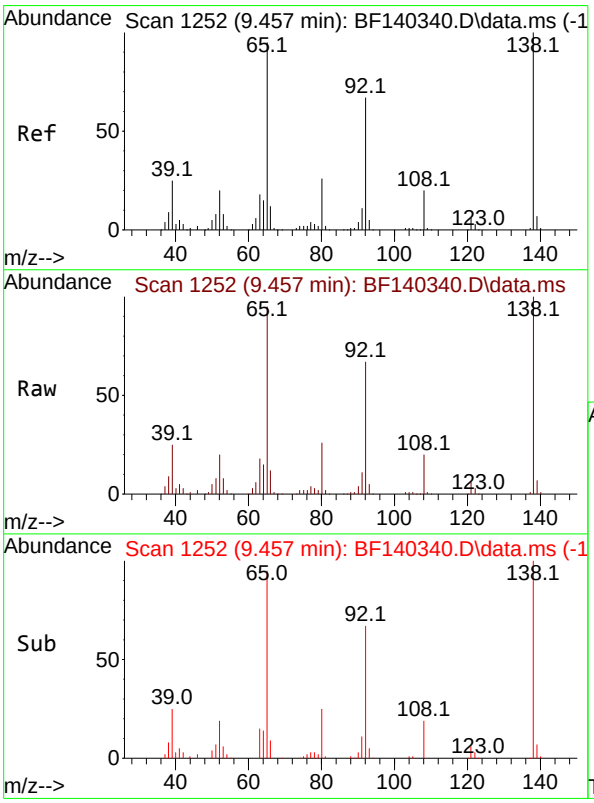
#47
2-Chloronaphthalene
Concen: 38.453 ng
RT: 9.357 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 712904

Ion	Ratio	Lower	Upper
162	100		
127	43.7	34.0	51.0
164	32.6	26.5	39.7

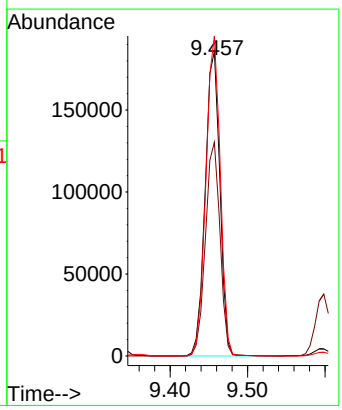


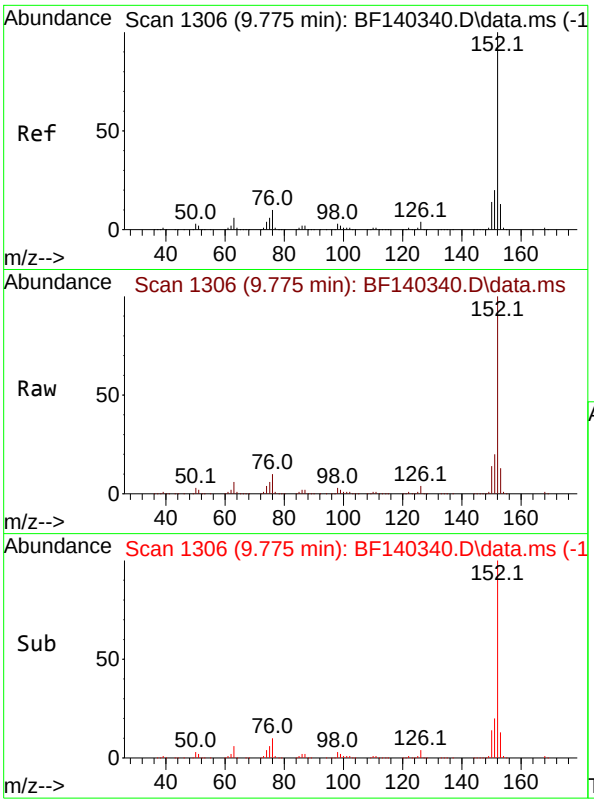


#48
2-Nitroaniline
Concen: 39.621 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion: 65 Resp: 243614

Ion	Ratio	Lower	Upper
65	100		
92	70.2	56.4	84.6
138	105.1	84.8	127.2



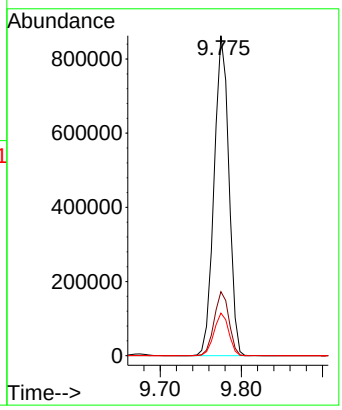


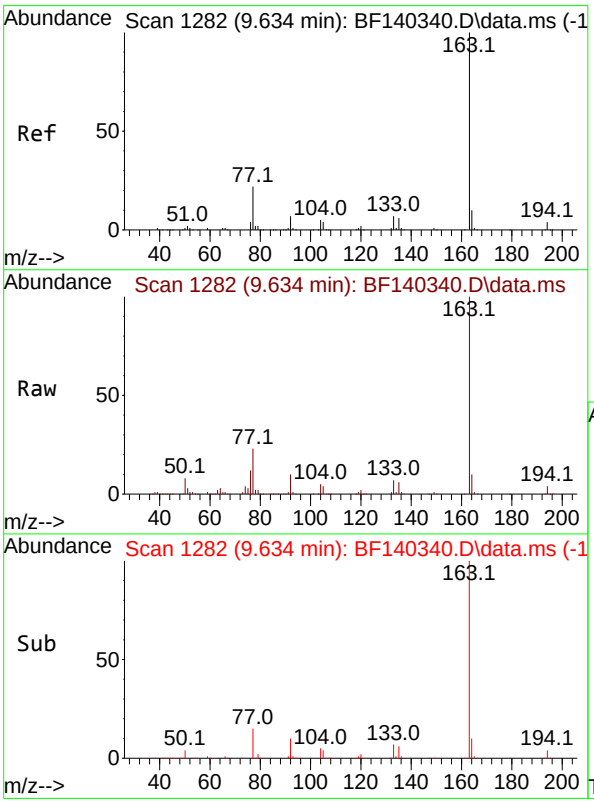
#49
Acenaphthylene
Concen: 39.012 ng
RT: 9.775 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 1094318

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.1	24.1
153	13.3	10.7	16.1

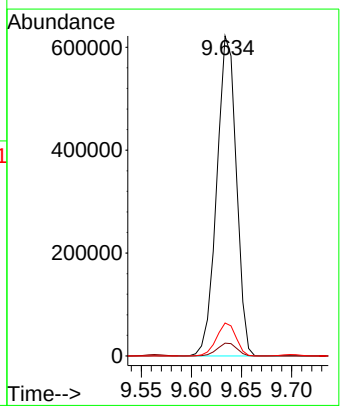


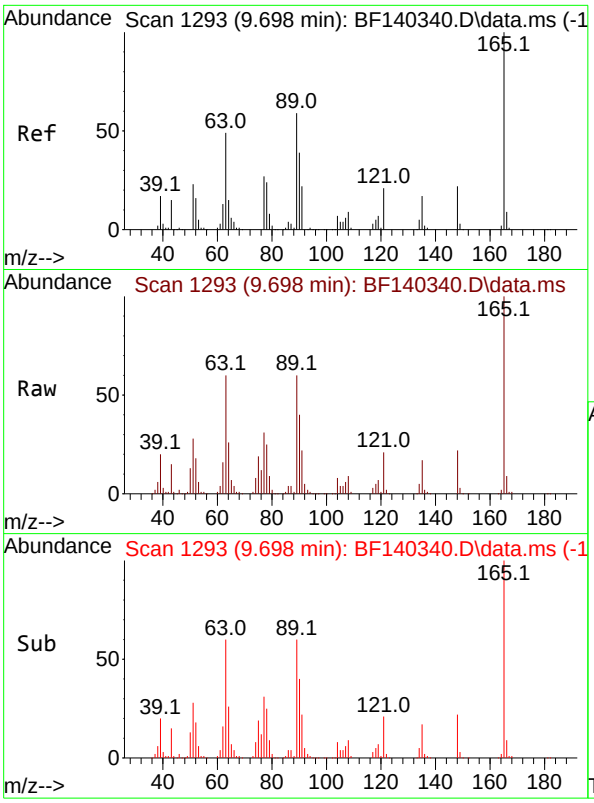


#50
Dimethylphthalate
Concen: 38.694 ng
RT: 9.634 min Scan# 1282
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:163 Resp: 843750

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.3	8.2	12.4



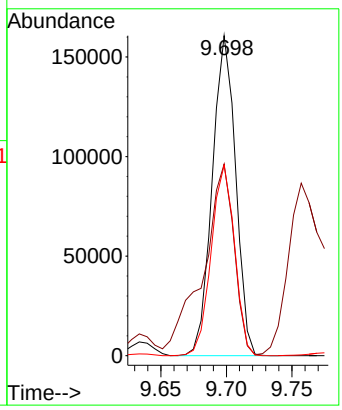


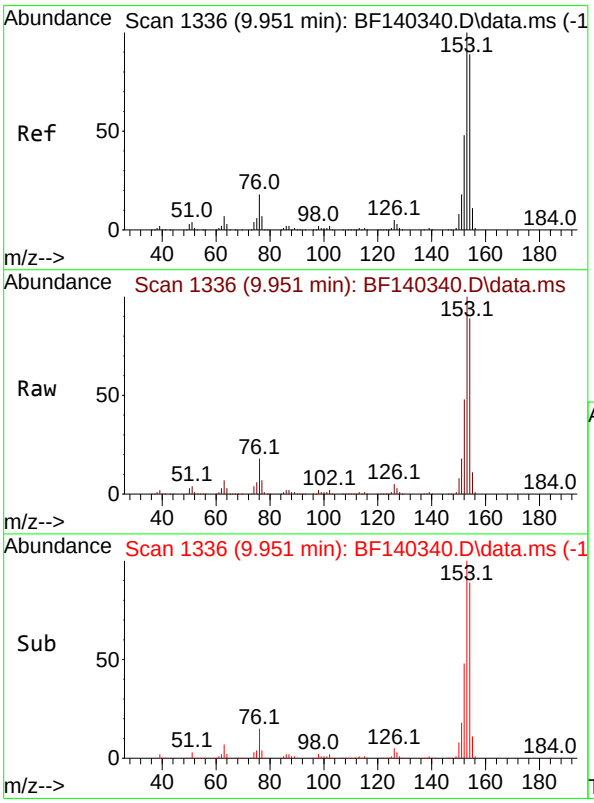
#51
2,6-Dinitrotoluene
Concen: 40.024 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 198967

Ion	Ratio	Lower	Upper
165	100		
63	59.9	47.6	71.4
89	59.5	48.1	72.1

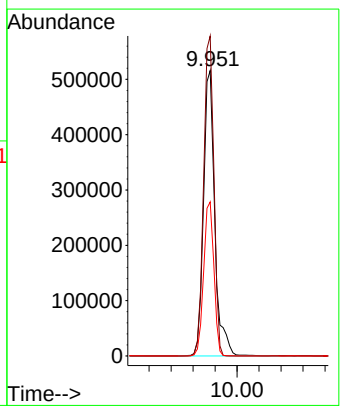


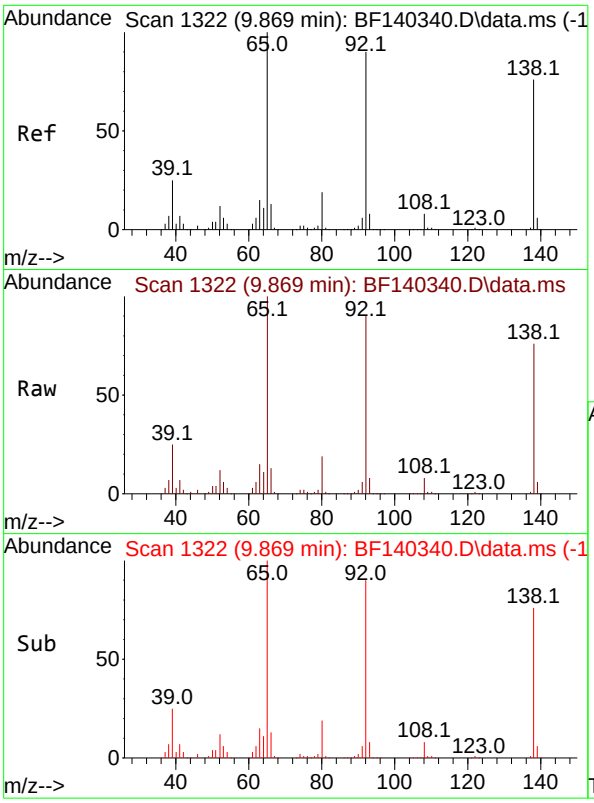


#52
Acenaphthene
Concen: 38.711 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:154 Resp: 733408

Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.8	134.8
152	54.0	42.6	64.0



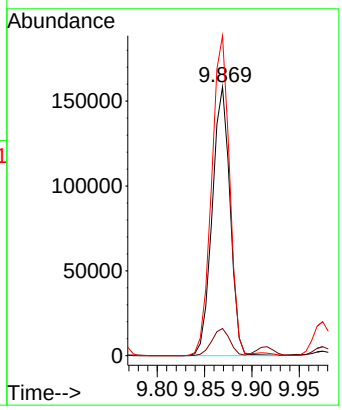


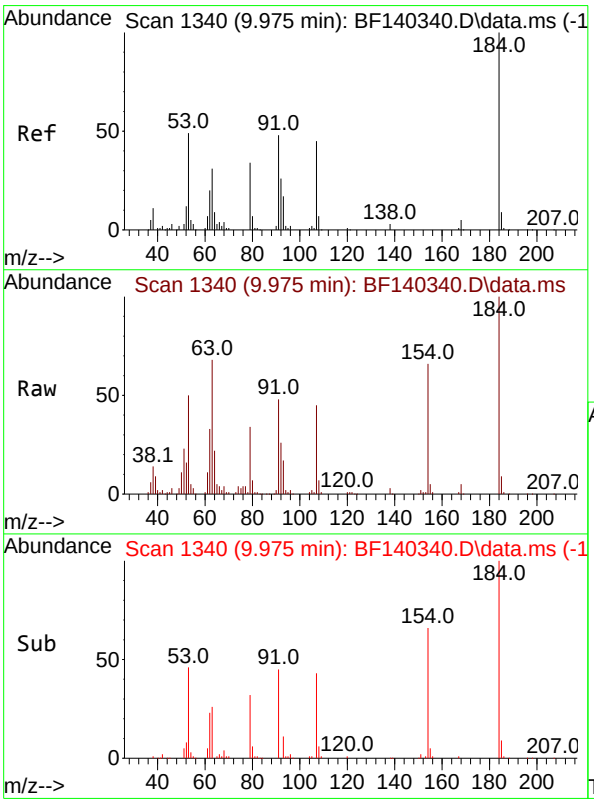
#53
3-Nitroaniline
Concen: 39.755 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 207550

Ion	Ratio	Lower	Upper
138	100		
108	10.1	8.4	12.6
92	119.1	95.5	143.3

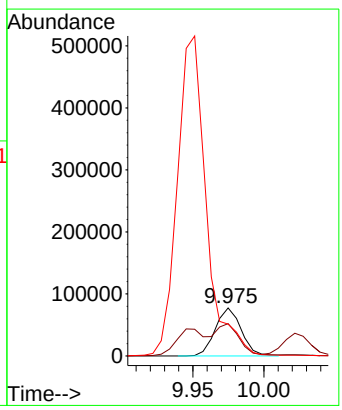


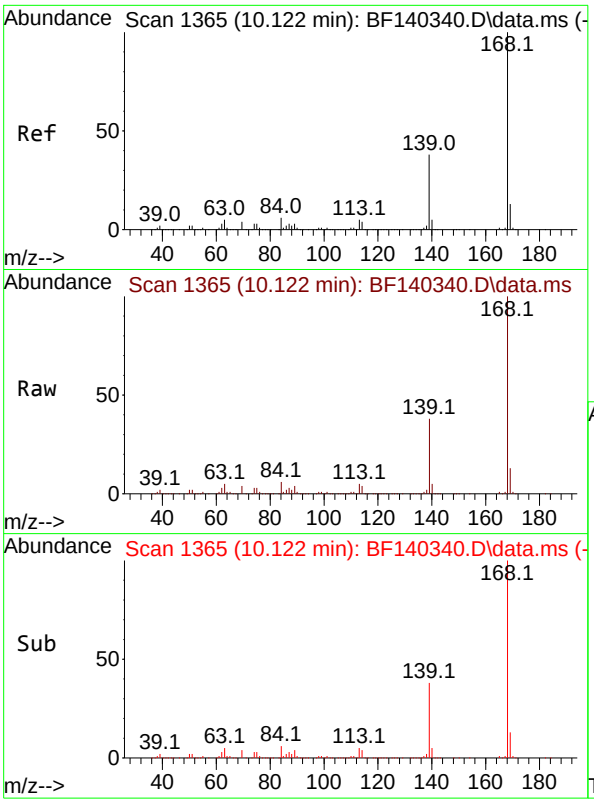


#54
2,4-Dinitrophenol
Concen: 38.441 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:184 Resp: 98545

Ion	Ratio	Lower	Upper
184	100		
63	67.5	53.5	80.3
154	66.3	51.3	76.9



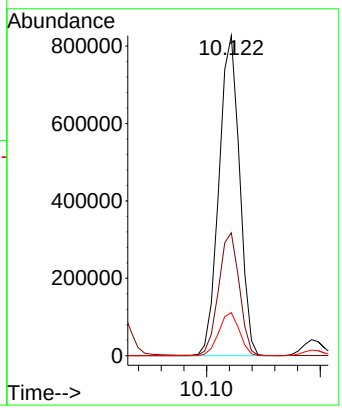


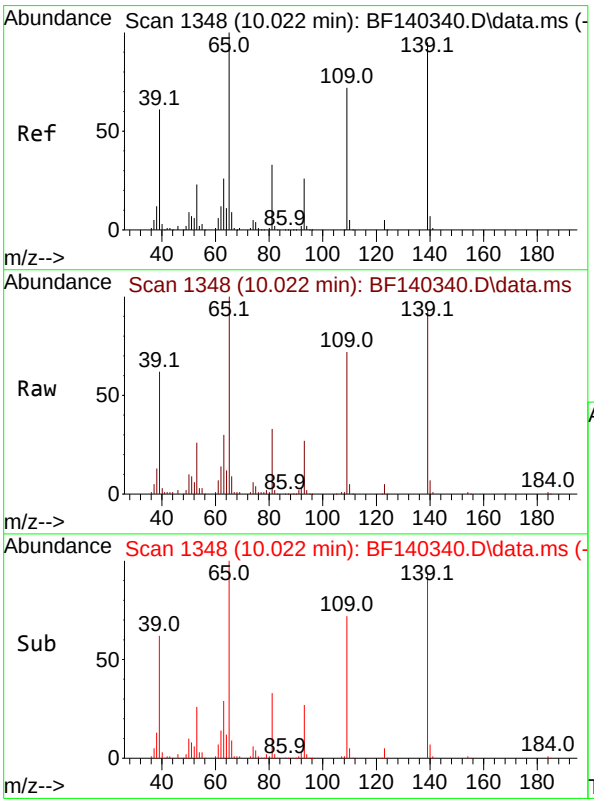
#55
Dibenzofuran
Concen: 38.868 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 1042453

Ion	Ratio	Lower	Upper
168	100		
139	38.4	30.8	46.2
169	13.4	10.8	16.2

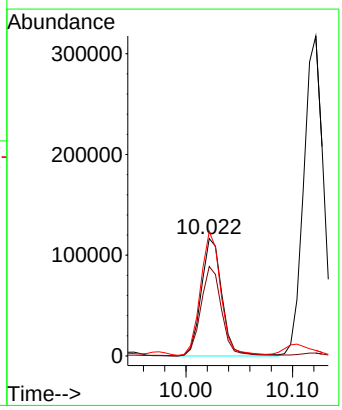


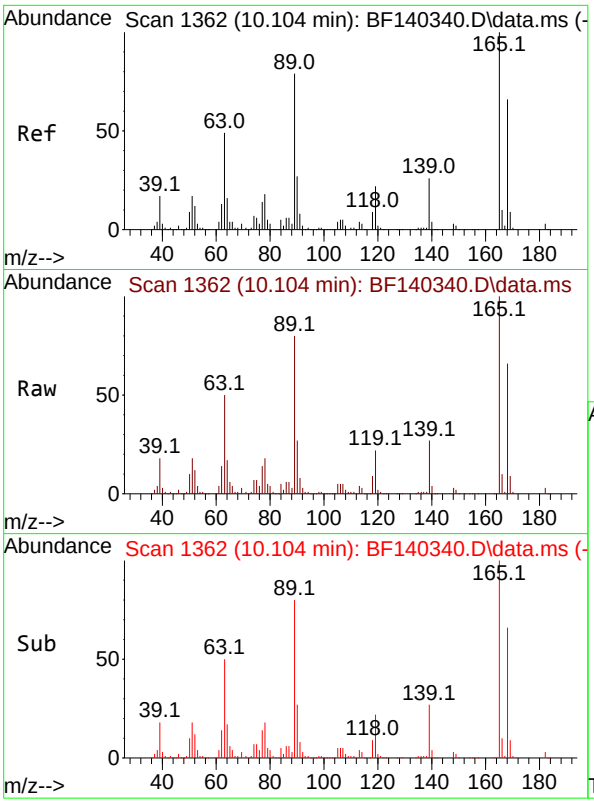


#56
4-Nitrophenol
Concen: 41.475 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:139 Resp: 157938

Ion	Ratio	Lower	Upper
139	100		
109	76.2	54.5	94.5
65	106.0	84.4	124.4



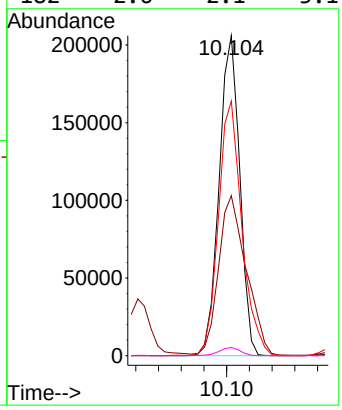


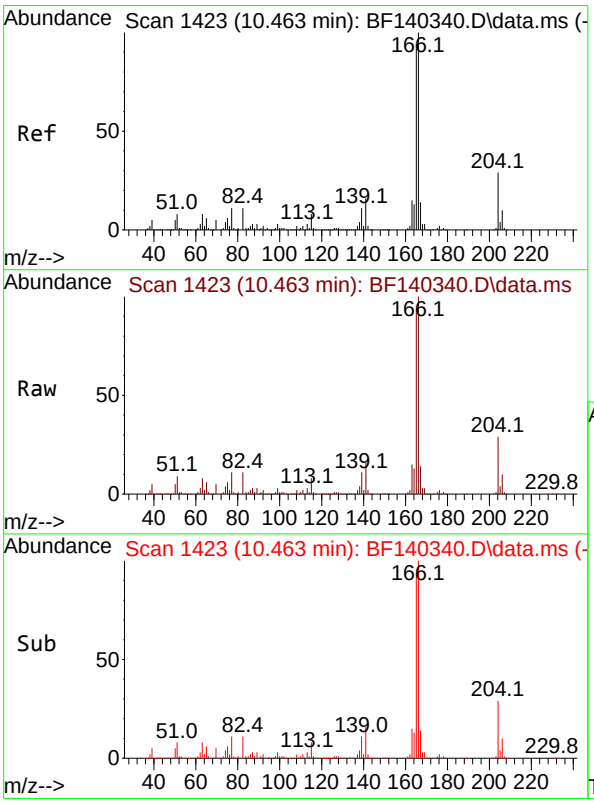
#57
2,4-Dinitrotoluene
Concen: 39.569 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 258886

Ion	Ratio	Lower	Upper
165	100		
63	50.0	39.4	59.0
89	79.6	62.4	93.6
182	2.6	2.1	3.1

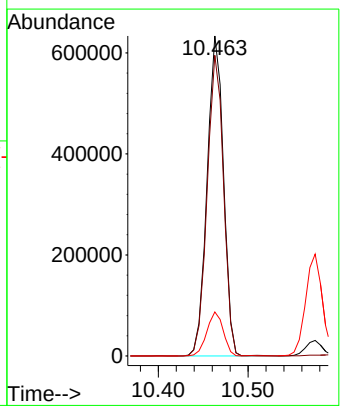


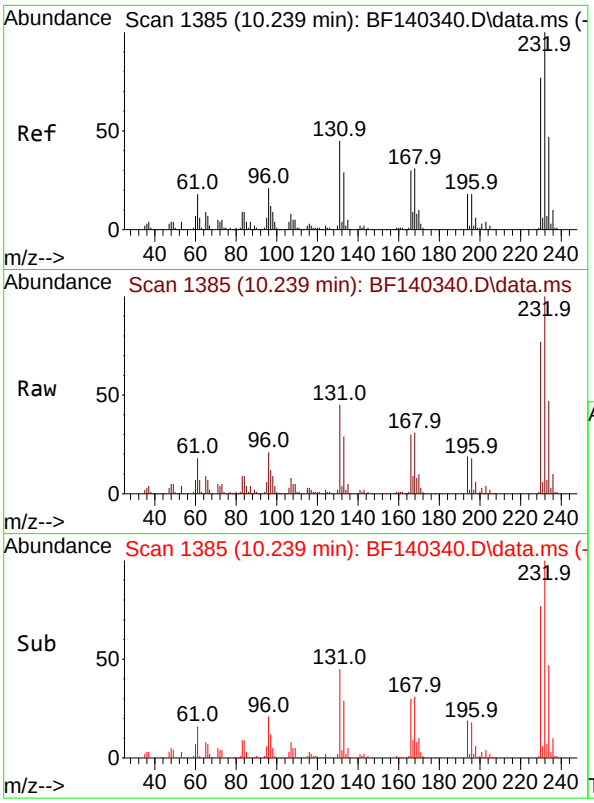


#58
Fluorene
Concen: 37.951 ng
RT: 10.463 min Scan# 1423
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:166 Resp: 804084

Ion	Ratio	Lower	Upper
166	100		
165	94.0	73.9	110.9
167	13.8	10.9	16.3



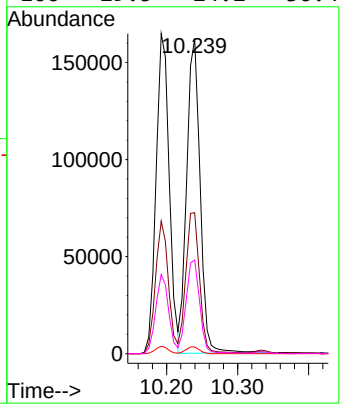


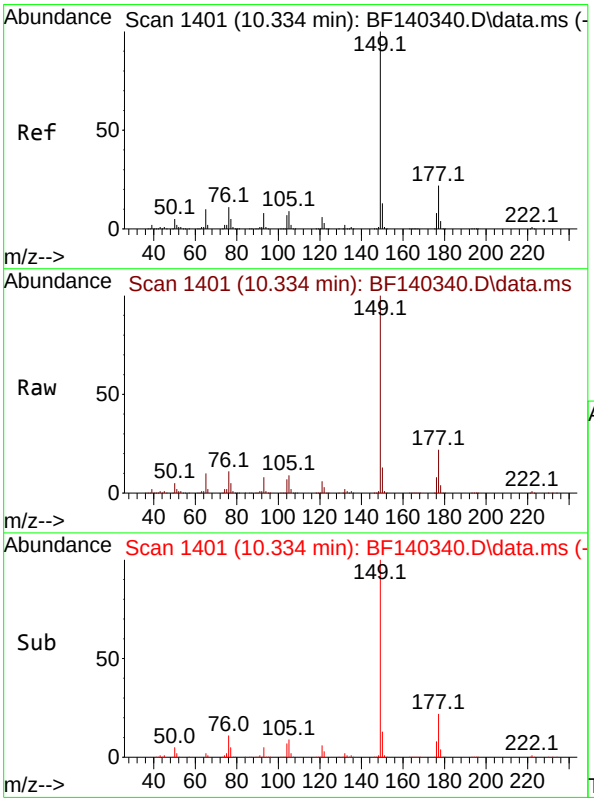
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.586 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 212533

Ion	Ratio	Lower	Upper
232	100		
131	46.1	36.8	55.2
130	2.2	1.9	2.9
166	29.5	24.2	36.4

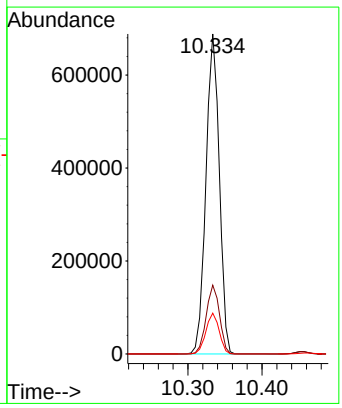


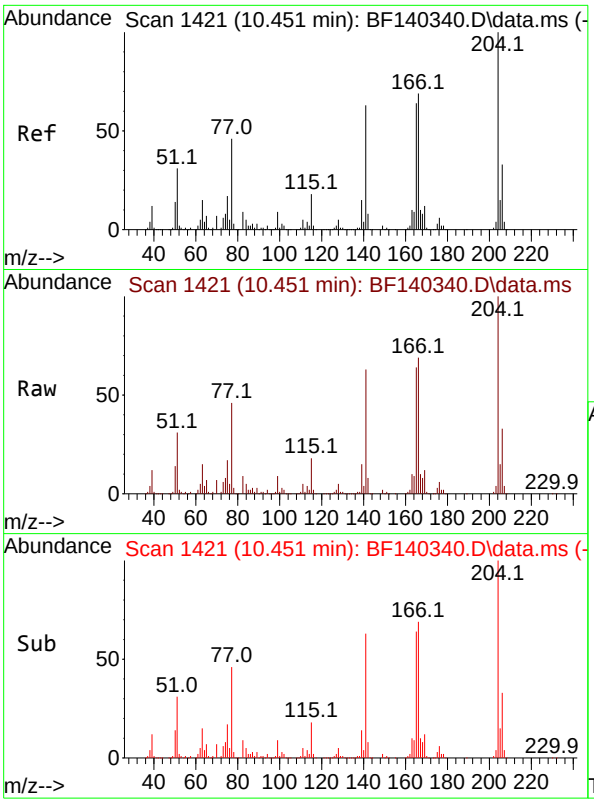


#60
Diethylphthalate
Concen: 38.627 ng
RT: 10.334 min Scan# 1401
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:149 Resp: 861287

Ion	Ratio	Lower	Upper
149	100		
177	21.5	17.5	26.3
150	12.8	10.1	15.1



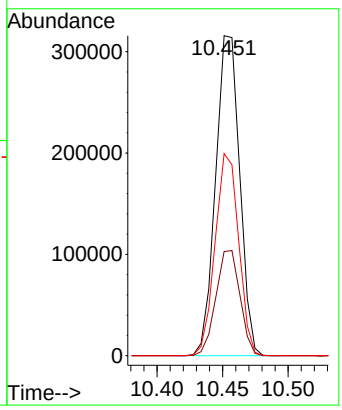


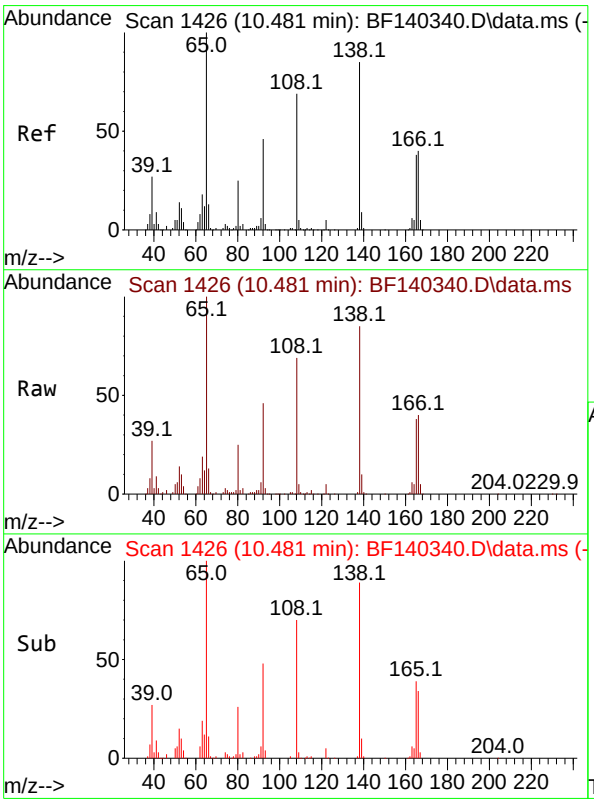
#61
4-Chlorophenyl-phenylether
Concen: 38.614 ng
RT: 10.451 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 403914

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.0	39.0
141	63.1	49.8	74.8

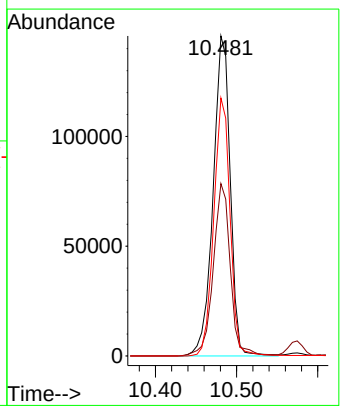


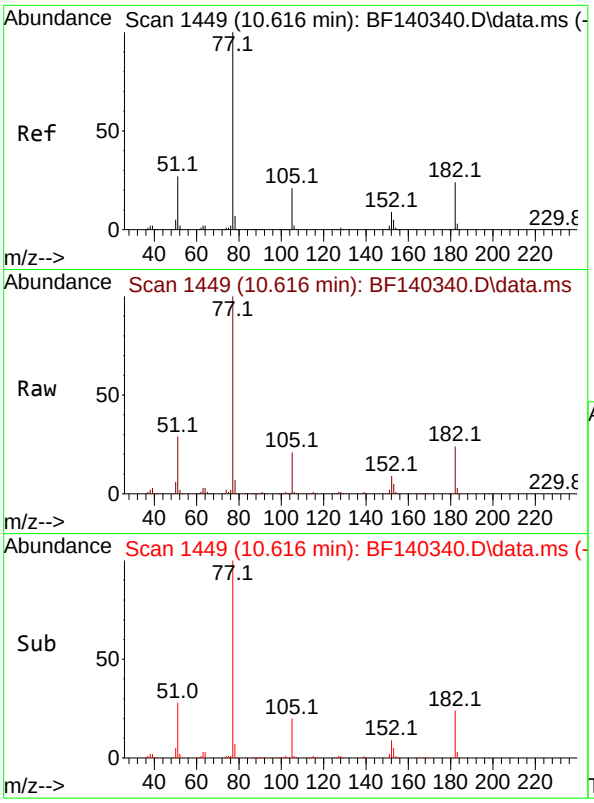


#62
4-Nitroaniline
Concen: 40.022 ng
RT: 10.481 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:138 Resp: 213640

Ion	Ratio	Lower	Upper
138	100		
92	53.8	33.8	73.8
108	80.6	59.9	99.9



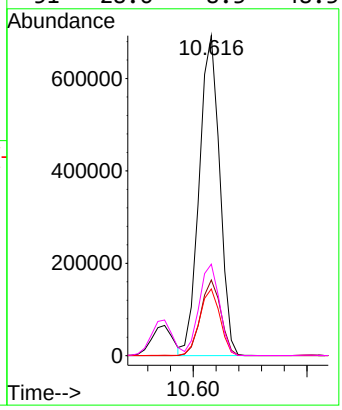


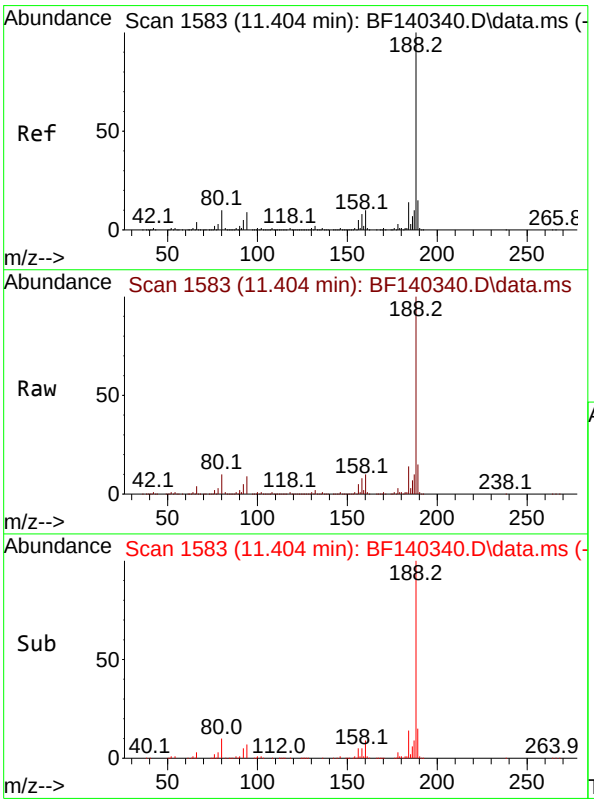
#63
Azobenzene
Concen: 39.263 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 865008

Ion	Ratio	Lower	Upper
77	100		
182	23.7	4.6	44.6
105	20.9	0.9	40.9
51	28.6	8.3	48.3

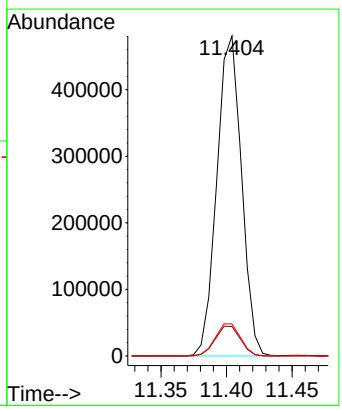


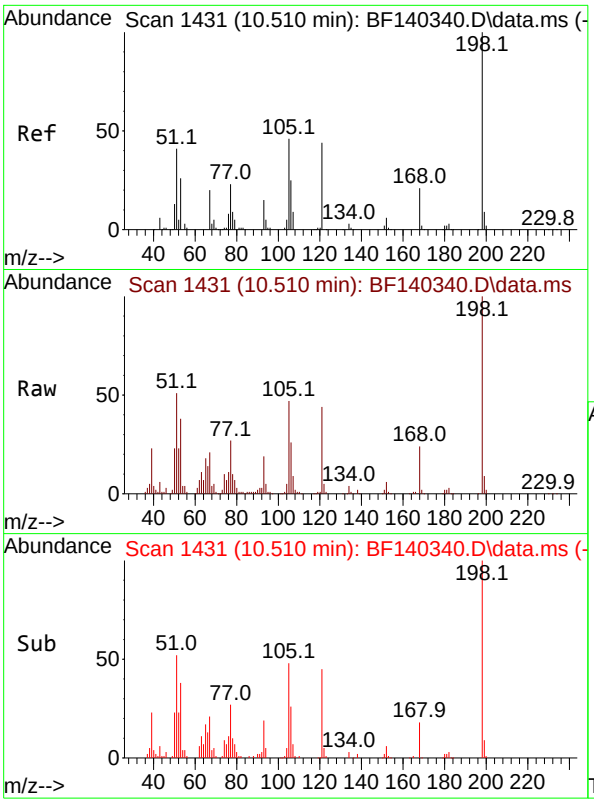


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:188 Resp: 628587

Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.6	11.4
80	10.0	8.0	12.0



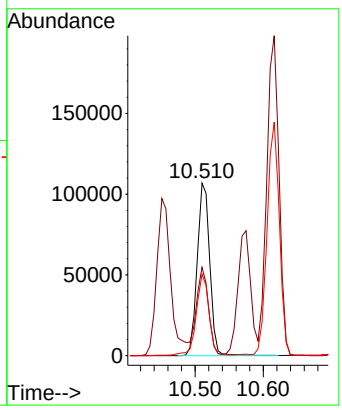


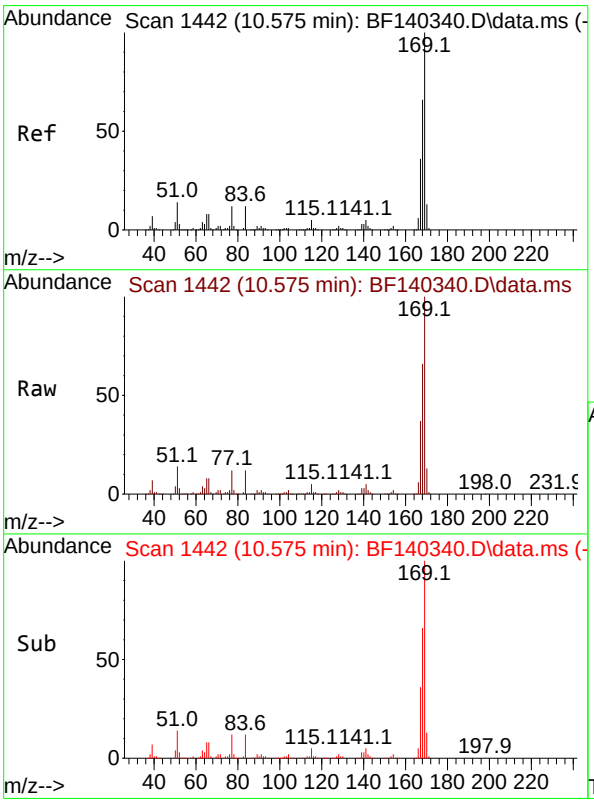
#65
4,6-Dinitro-2-methylphenol
Concen: 40.409 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 136662

Ion	Ratio	Lower	Upper
198	100		
51	51.2	29.7	69.7
105	47.2	26.3	66.3

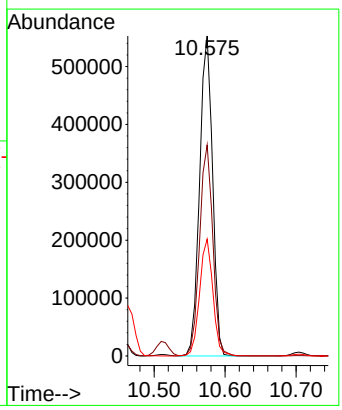


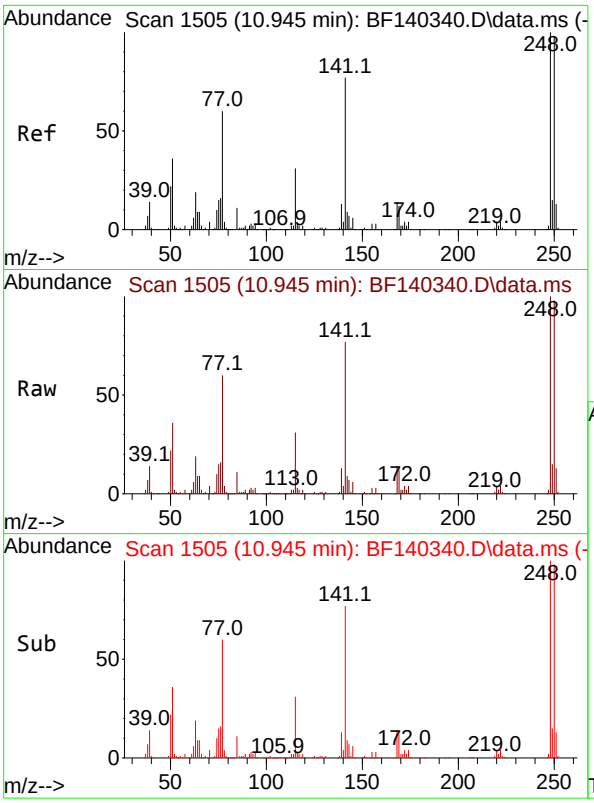


#66
n-Nitrosodiphenylamine
Concen: 38.723 ng
RT: 10.575 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:169 Resp: 703286

Ion	Ratio	Lower	Upper
169	100		
168	65.9	52.7	79.1
167	36.5	29.3	43.9



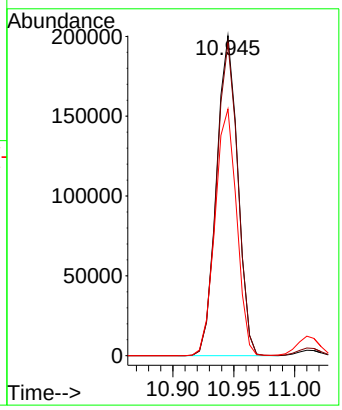


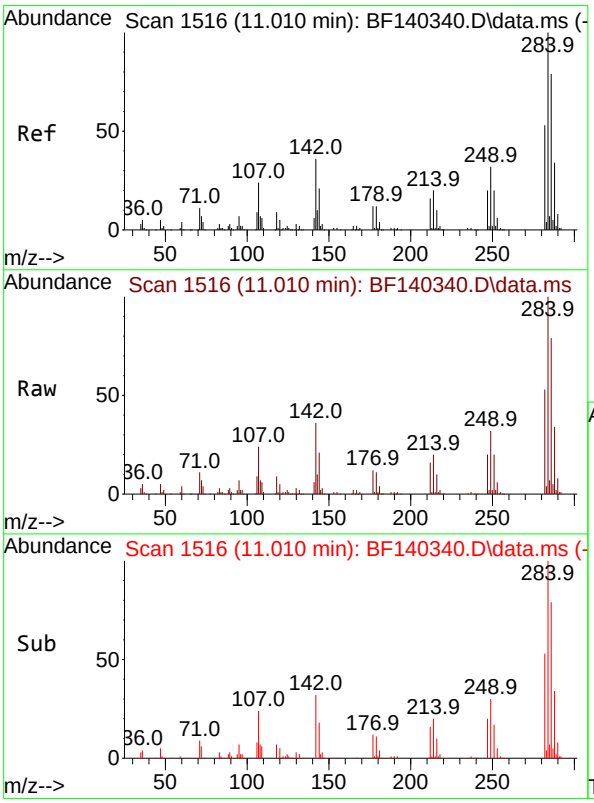
#67
4-Bromophenyl-phenylether
Concen: 38.789 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 243728

Ion	Ratio	Lower	Upper
248	100		
250	97.7	77.9	116.9
141	77.1	61.8	92.6

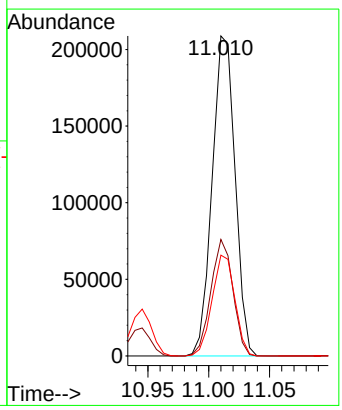


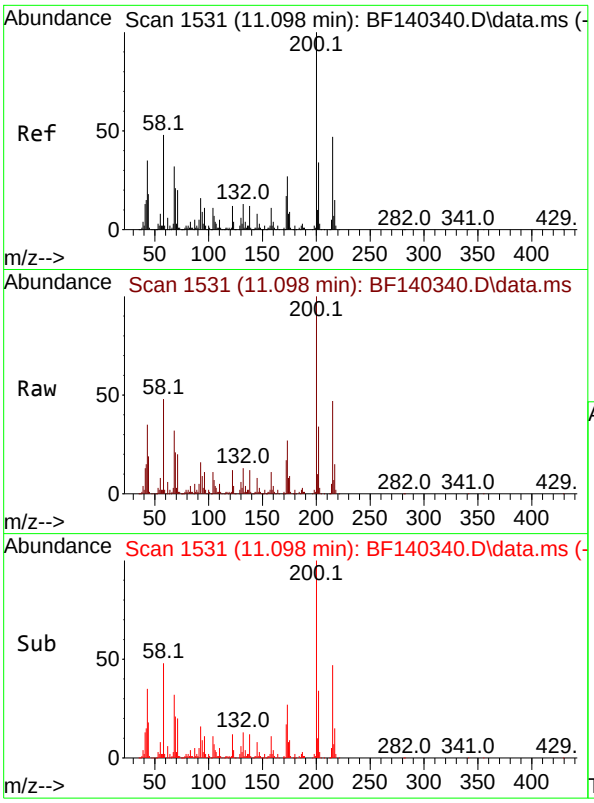


#68
Hexachlorobenzene
Concen: 38.734 ng
RT: 11.010 min Scan# 1516
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:284 Resp: 273839

Ion	Ratio	Lower	Upper
284	100		
142	36.4	28.1	42.1
249	31.5	24.9	37.3



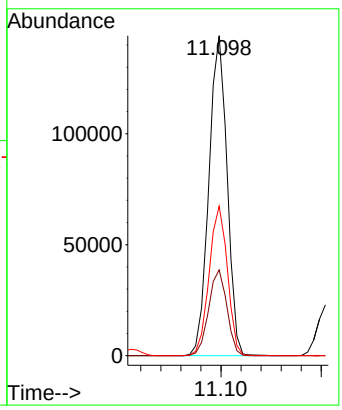


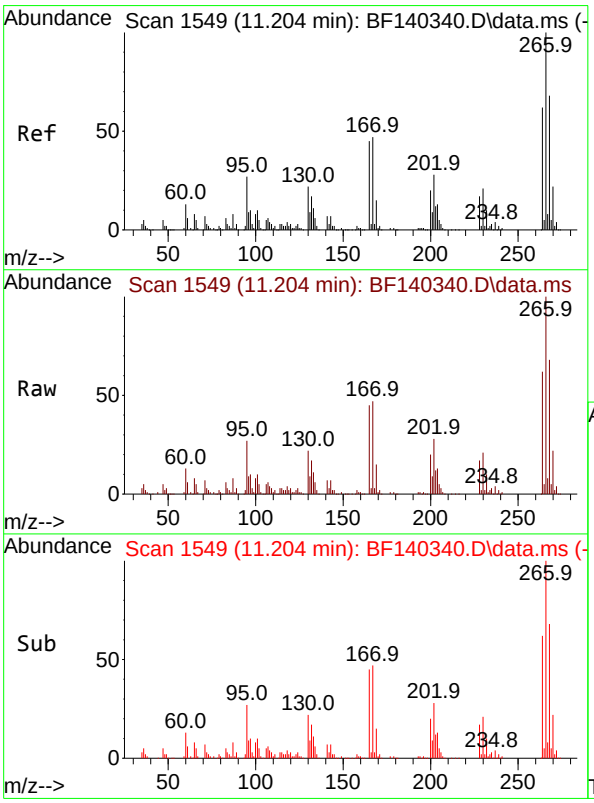
#69
Atrazine
Concen: 33.121 ng
RT: 11.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 181993

Ion	Ratio	Lower	Upper
200	100		
173	26.8	6.6	46.6
215	46.8	27.2	67.2

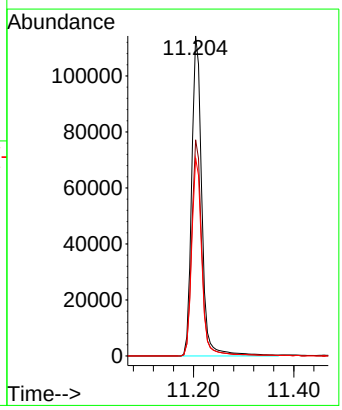


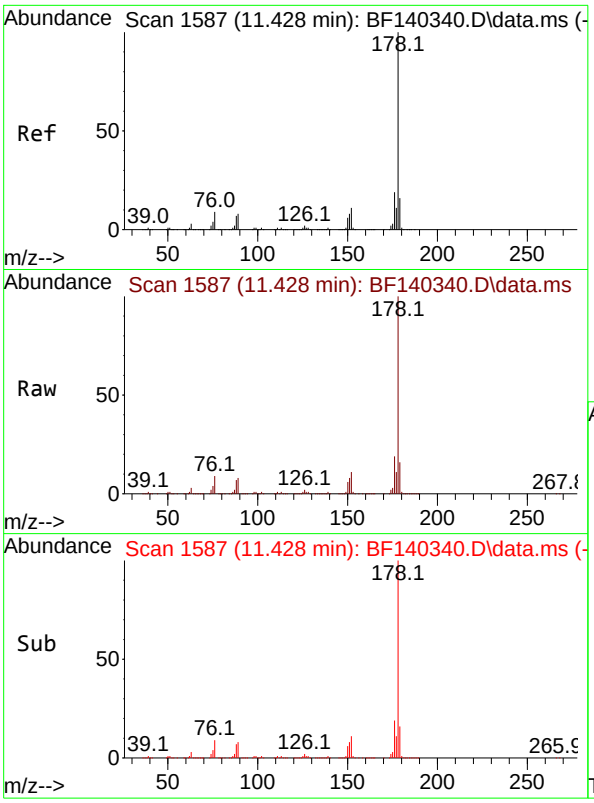


#70
Pentachlorophenol
Concen: 42.046 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:266 Resp: 160120

Ion	Ratio	Lower	Upper
266	100		
268	67.6	52.9	79.3
264	61.8	50.3	75.5



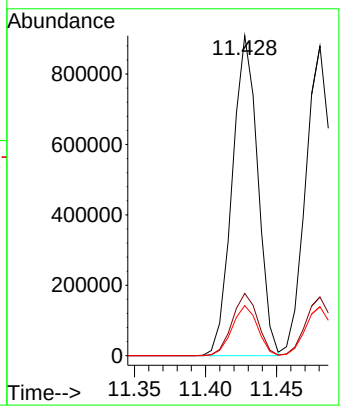


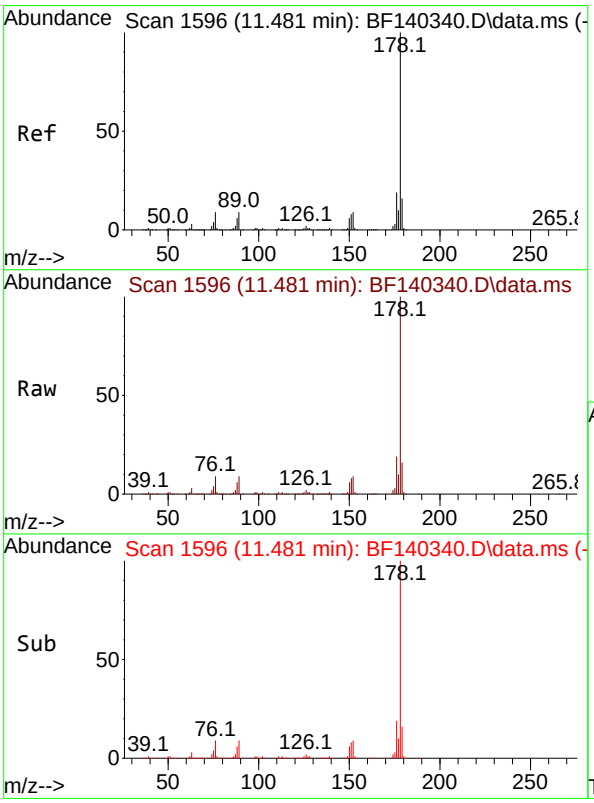
#71
Phenanthrene
Concen: 38.440 ng
RT: 11.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 1135052

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.5	23.3
179	15.6	12.4	18.6

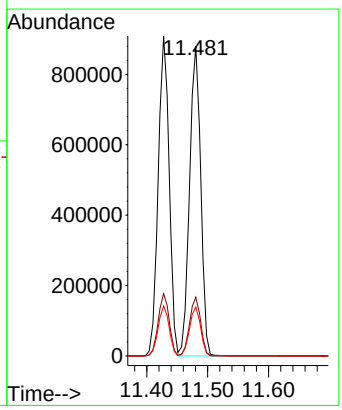


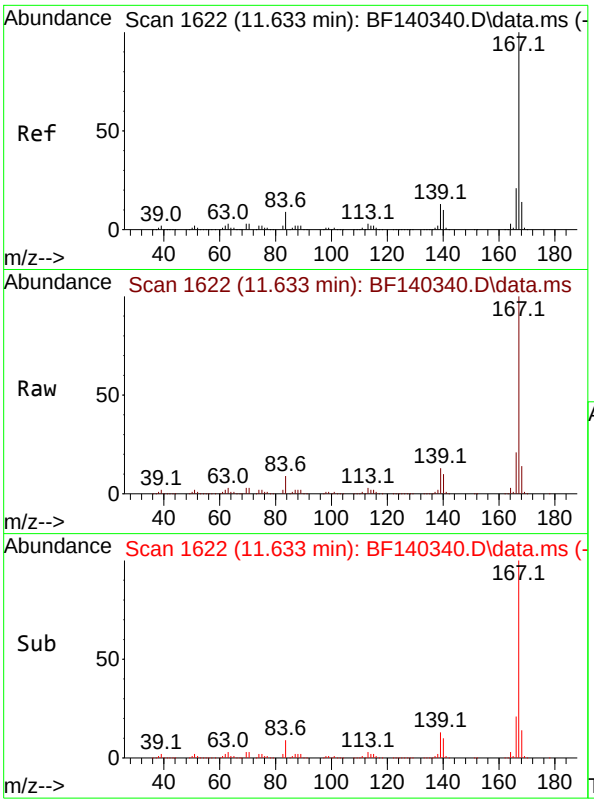


#72
Anthracene
Concen: 38.613 ng
RT: 11.481 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:178 Resp: 1117453

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.8	12.6	18.8



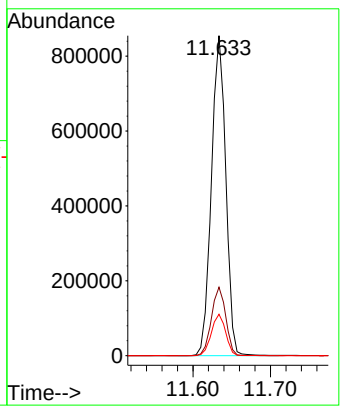


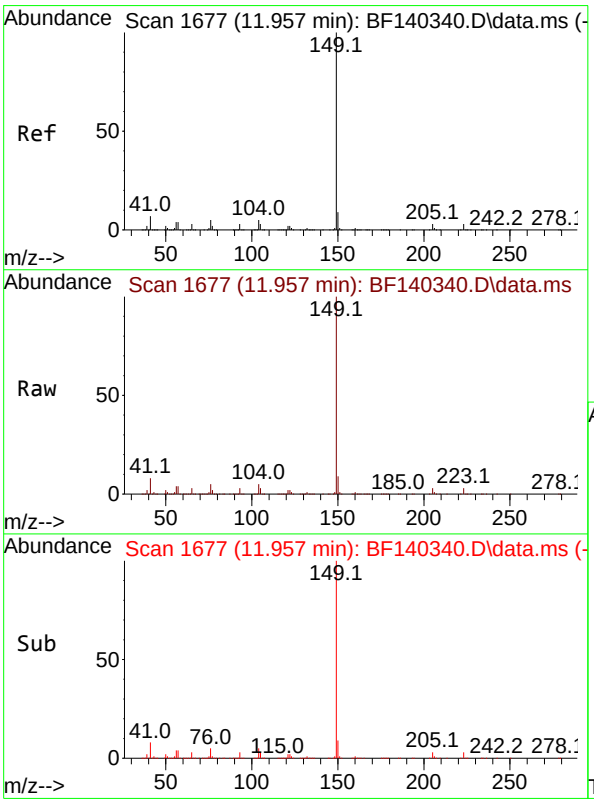
#73
Carbazole
Concen: 38.551 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 1101588

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.2	25.8
139	13.0	10.4	15.6

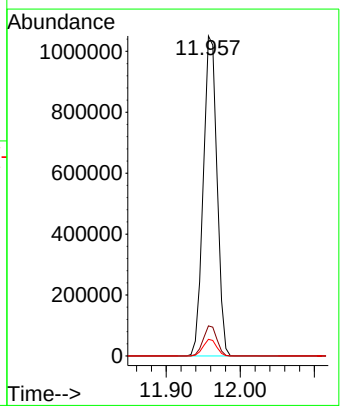


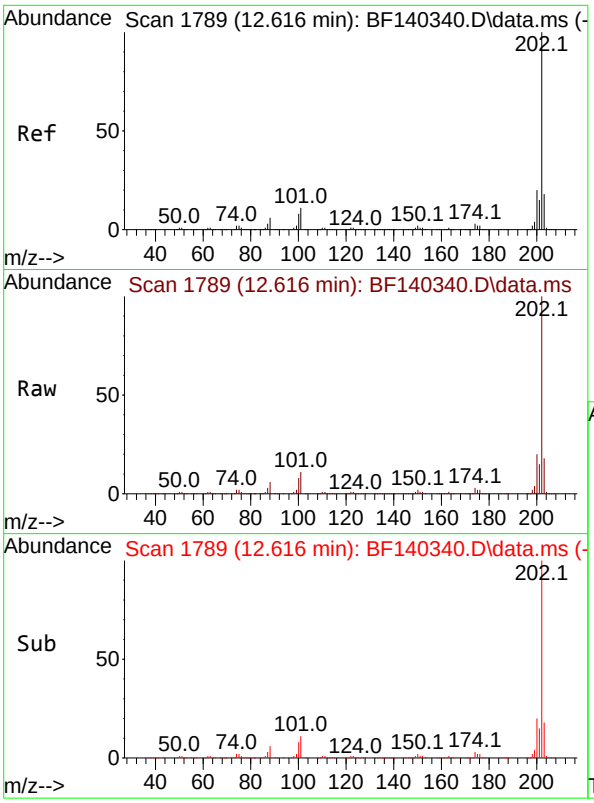


#74
Di-n-butylphthalate
Concen: 39.365 ng
RT: 11.957 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:149 Resp: 1350065

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.2	4.0	6.0



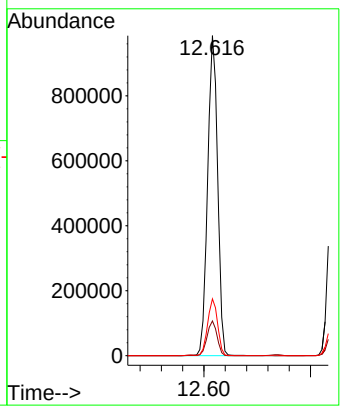


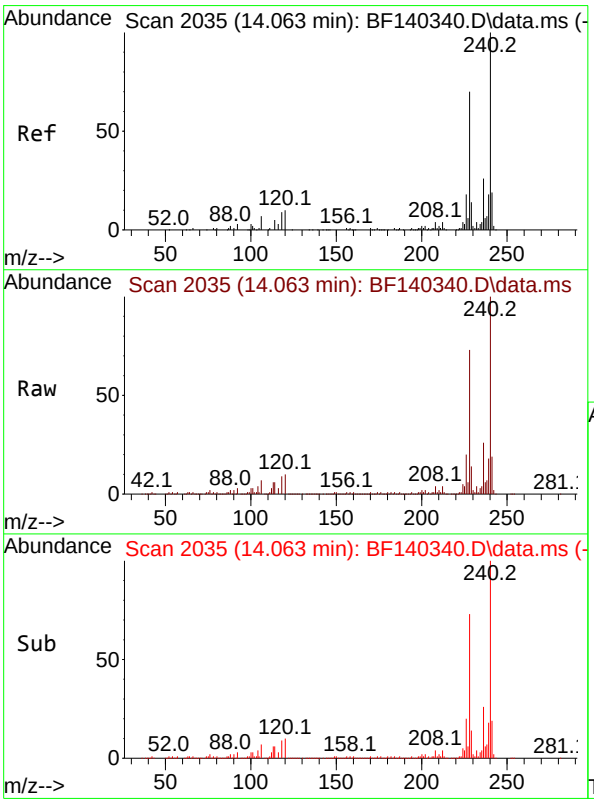
#75
Fluoranthene
Concen: 38.621 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 1279456

Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	30.7
203	17.7	0.0	37.7

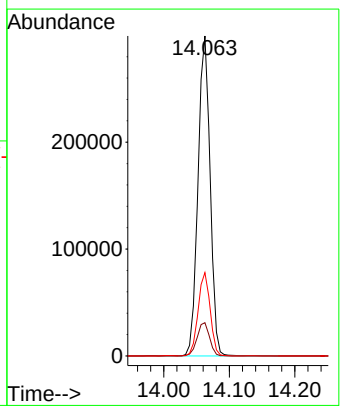


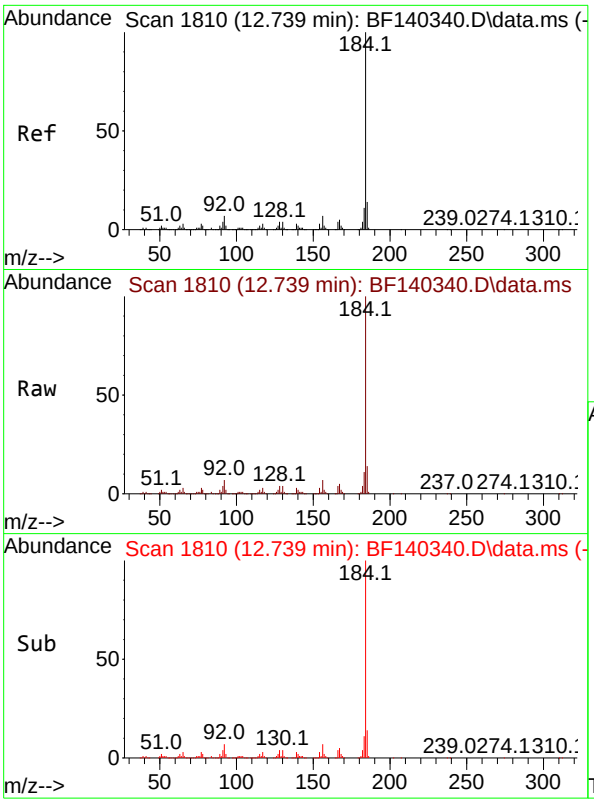


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2035
Delta R.T. 0.012 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:240 Resp: 385940

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.8	13.2
236	26.1	20.9	31.3



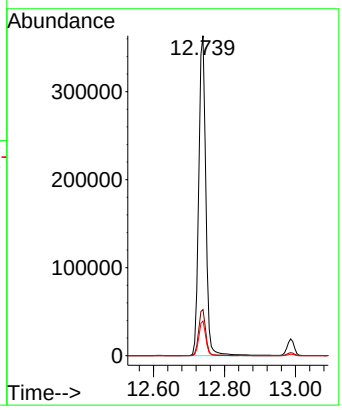


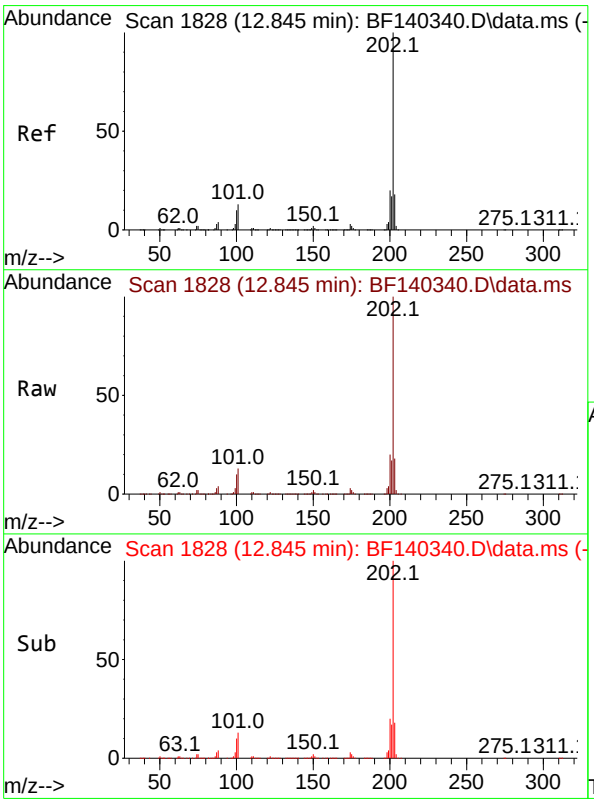
#77
Benzidine
Concen: 34.036 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 504166

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.9	17.9
183	10.8	8.6	13.0

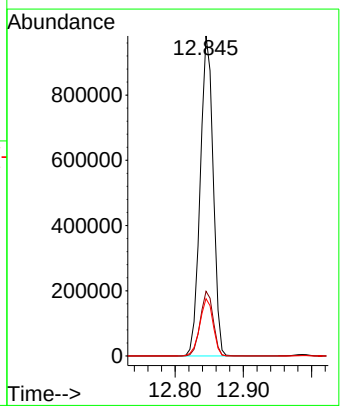


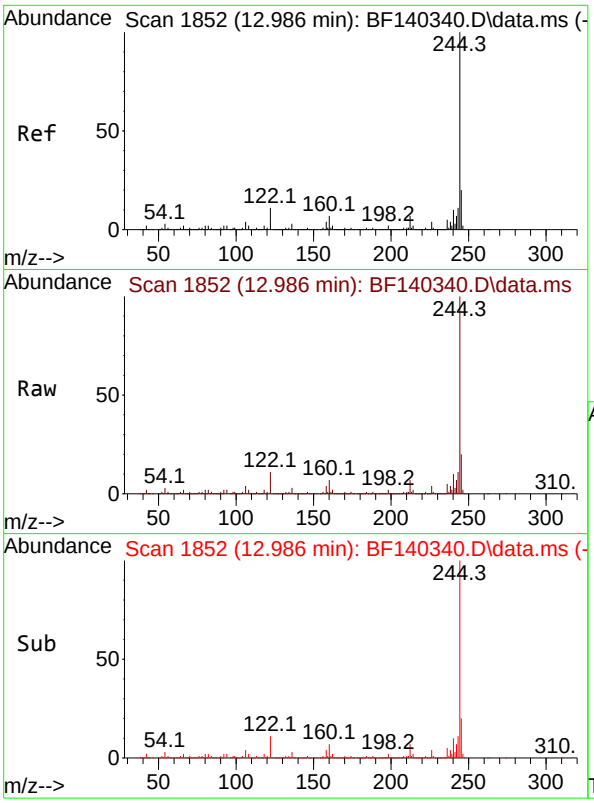


#78
Pyrene
Concen: 39.252 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:202 Resp: 1295809

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.2	24.2
203	17.9	14.2	21.4



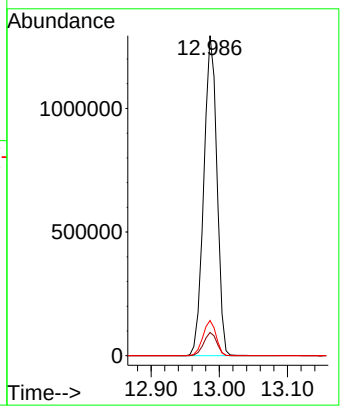


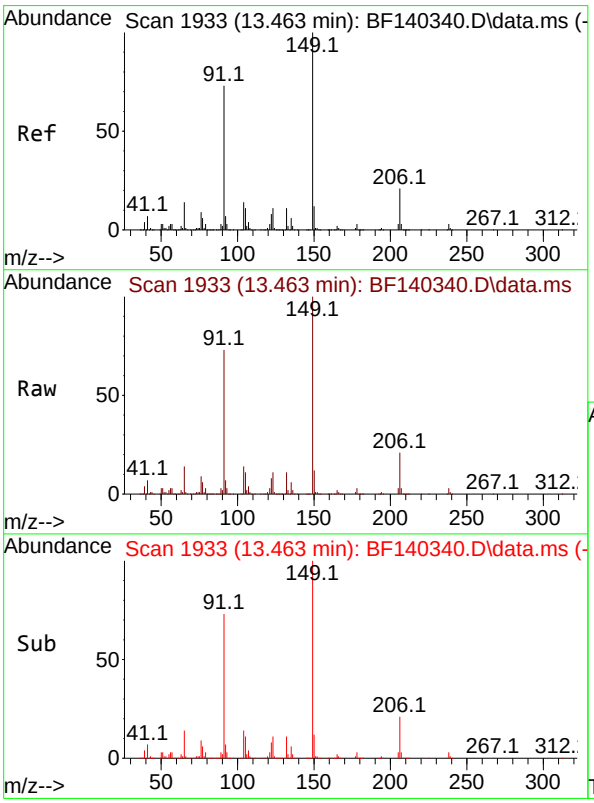
#79
Terphenyl-d14
Concen: 77.987 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 1733989

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	11.0	8.8	13.2

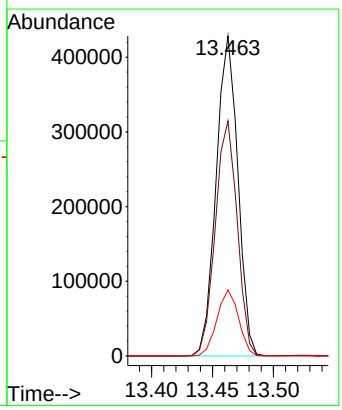


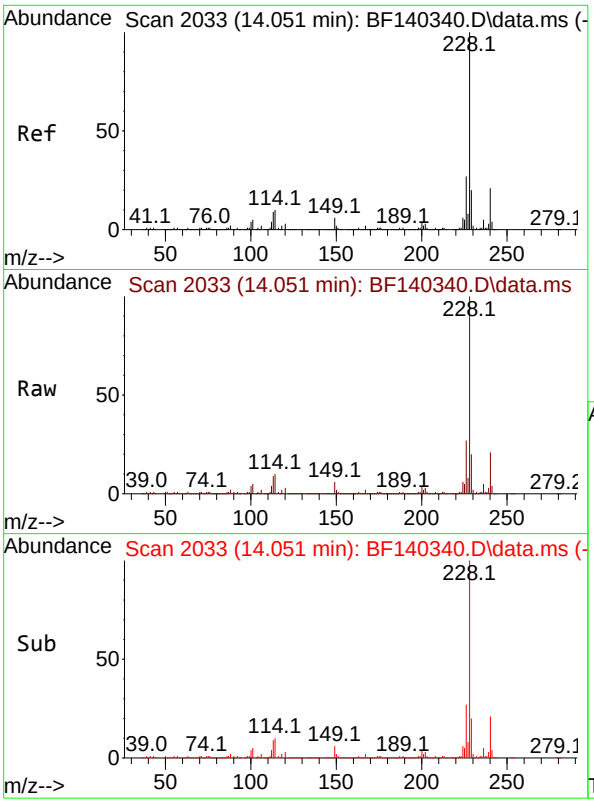


#80
Butylbenzylphthalate
Concen: 41.968 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:149 Resp: 532219

Ion	Ratio	Lower	Upper
149	100		
91	73.4	61.0	91.4
206	20.7	16.1	24.1



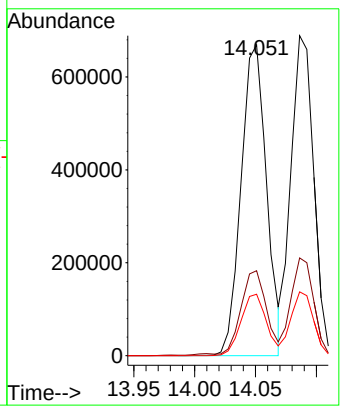


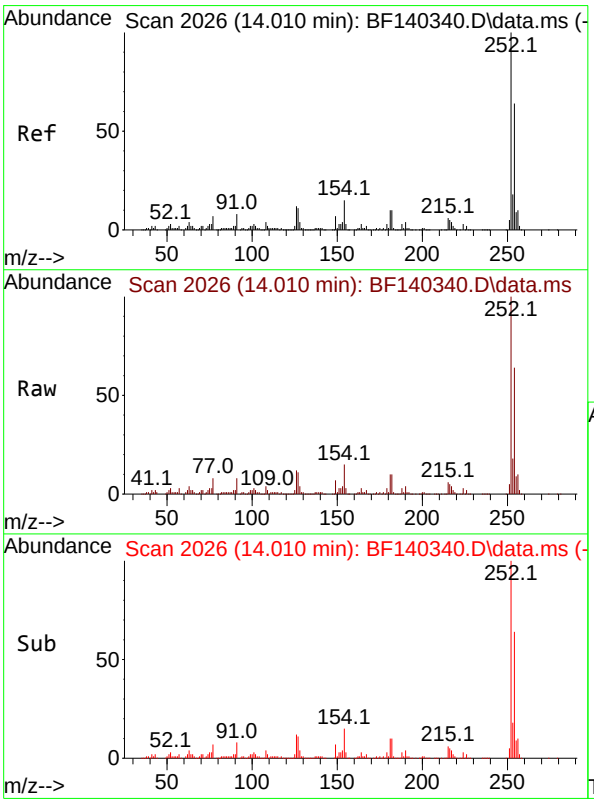
#81
Benzo(a)anthracene
Concen: 38.447 ng
RT: 14.051 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 975194

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.2	33.4
229	19.8	15.8	23.6

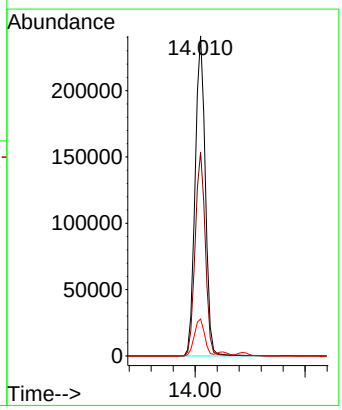


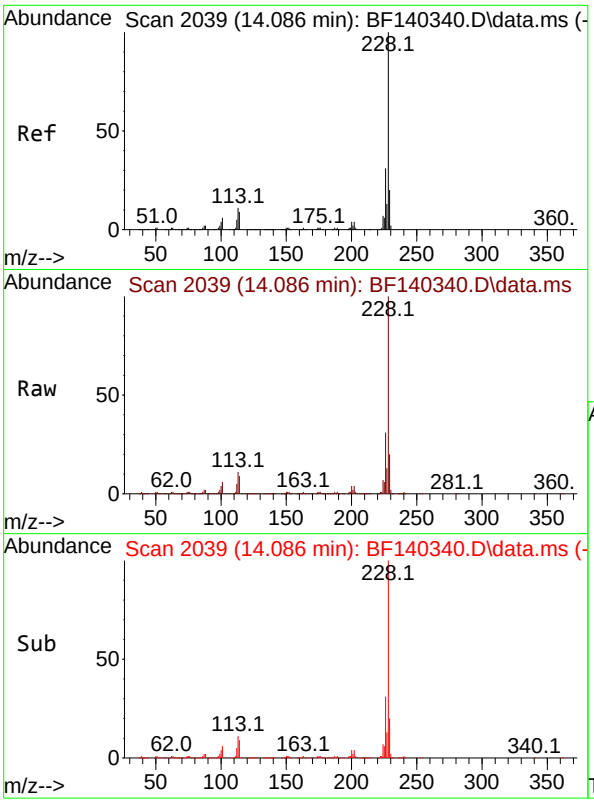


#82
3,3'-Dichlorobenzidine
Concen: 38.491 ng
RT: 14.010 min Scan# 2026
Delta R.T. 0.012 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:252 Resp: 310326

Ion	Ratio	Lower	Upper
252	100		
254	63.8	51.4	77.2
126	11.6	9.4	14.0



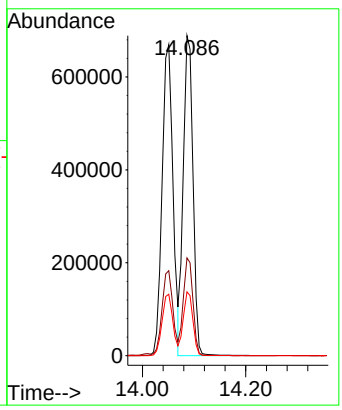


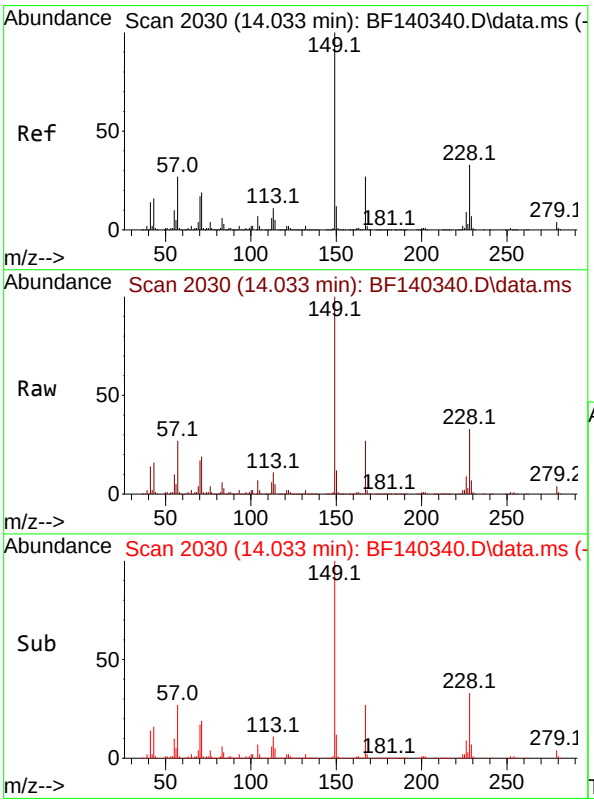
#83
Chrysene
Concen: 38.950 ng
RT: 14.086 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 901424

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	20.0	16.0	24.0

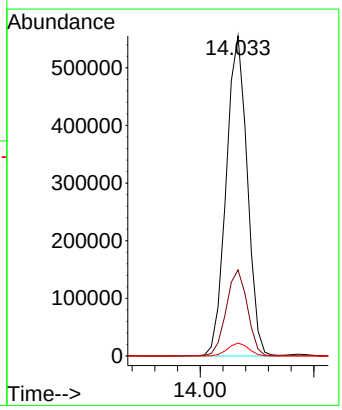


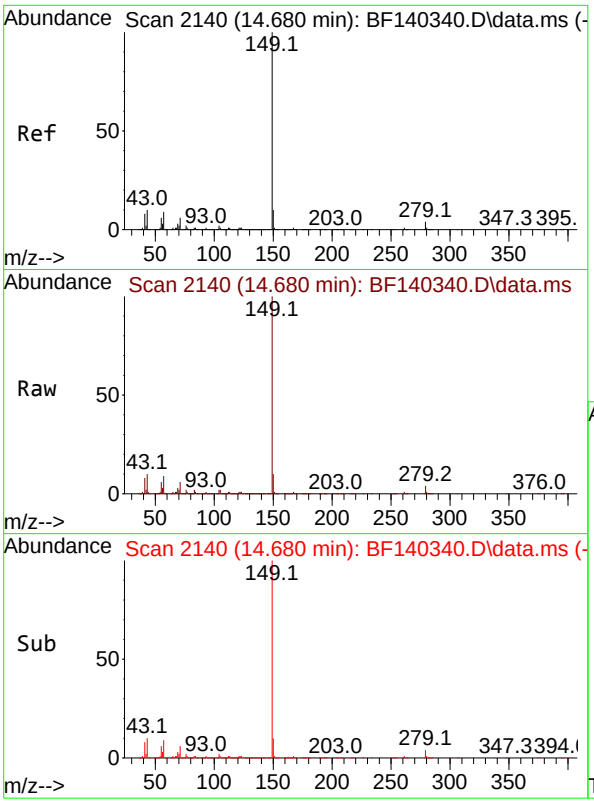


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.269 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.012 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:149 Resp: 715490

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.4	32.0
279	4.0	3.0	4.6



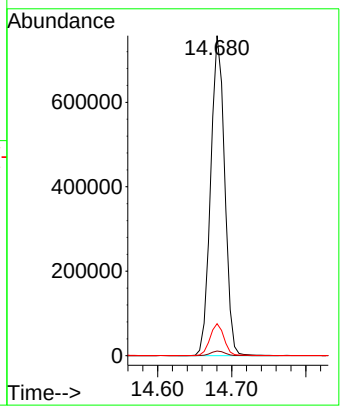


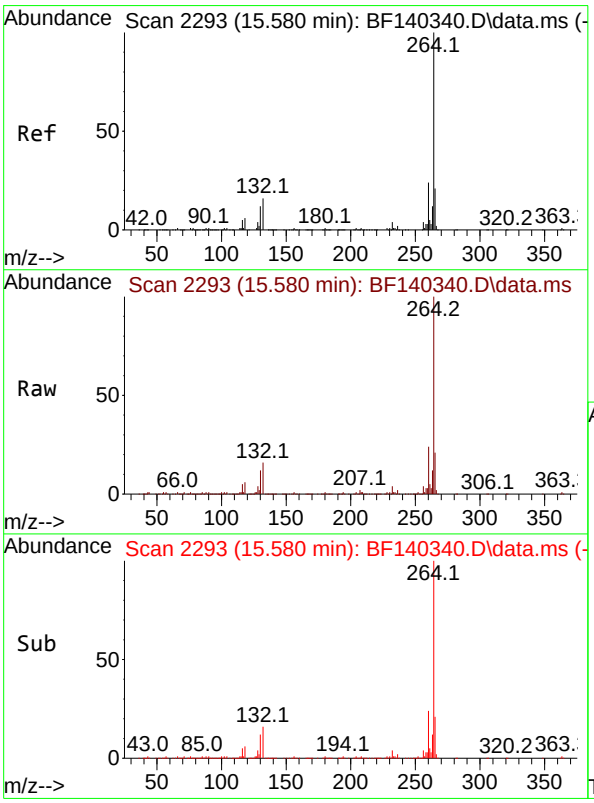
#85
Di-n-octyl phthalate
Concen: 41.757 ng
RT: 14.680 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 995484

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.0	8.0	12.0

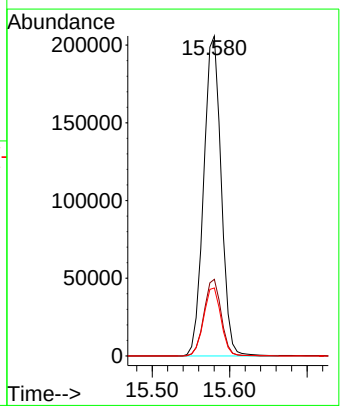


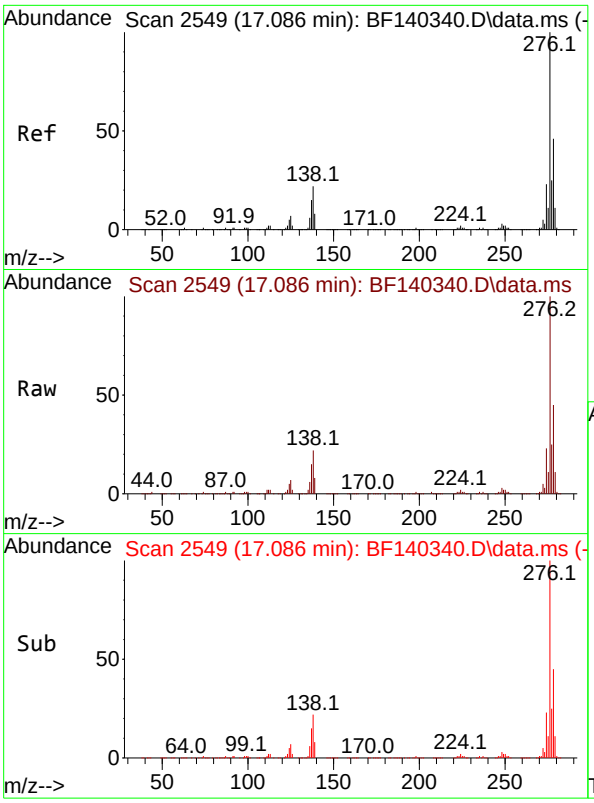


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.580 min Scan# 2293
Delta R.T. 0.024 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:264 Resp: 322417

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.3	17.1	25.7



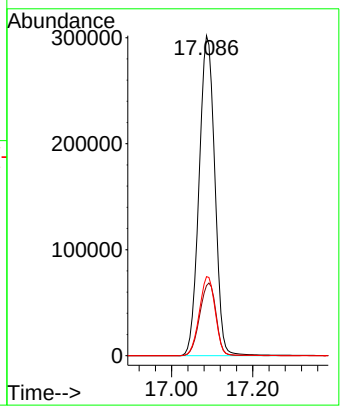


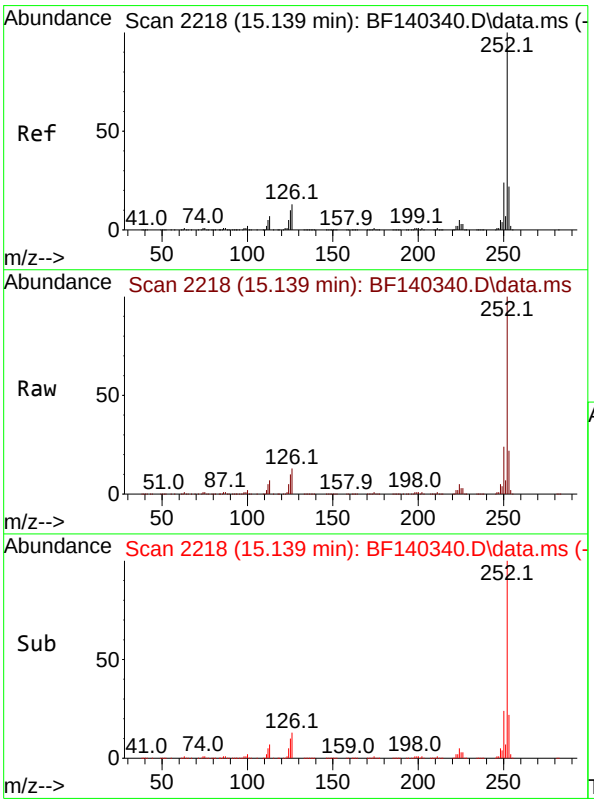
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.723 ng
RT: 17.086 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 811059

Ion	Ratio	Lower	Upper
276	100		
138	23.5	18.8	28.2
277	25.0	20.2	30.2

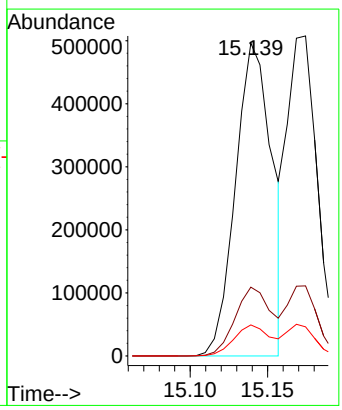


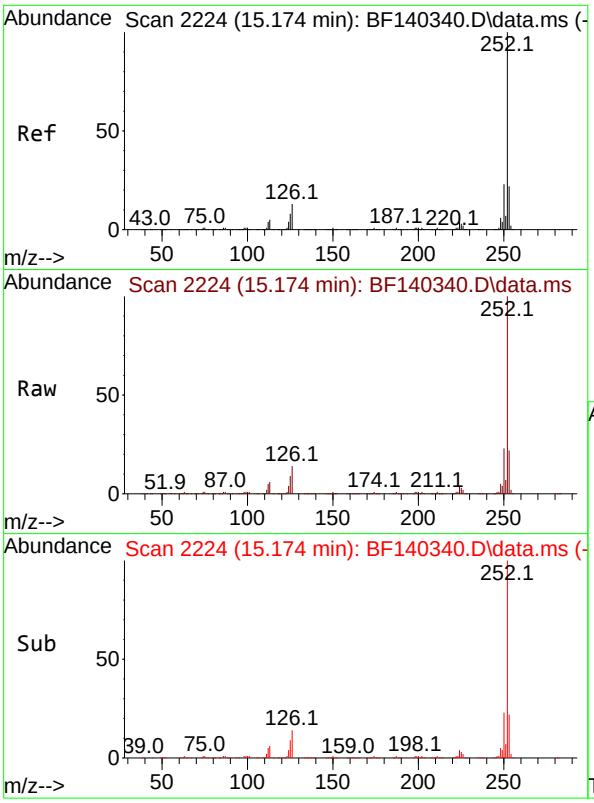


#88
Benzo(b)fluoranthene
Concen: 38.614 ng
RT: 15.139 min Scan# 2218
Delta R.T. 0.024 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:252 Resp: 814405

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.9	8.0	12.0



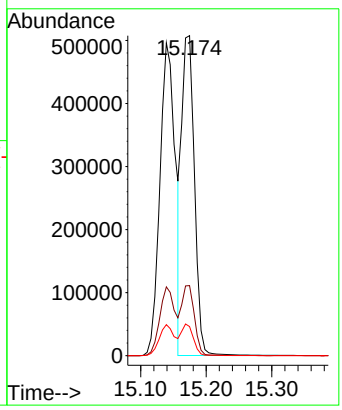


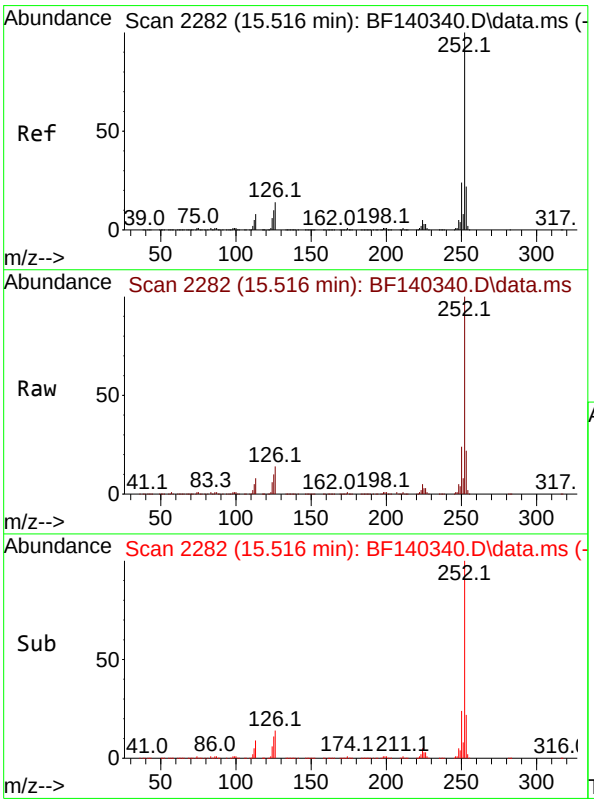
#89
Benzo(k)fluoranthene
Concen: 39.676 ng
RT: 15.174 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 683609

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9
125	9.1	7.4	11.2

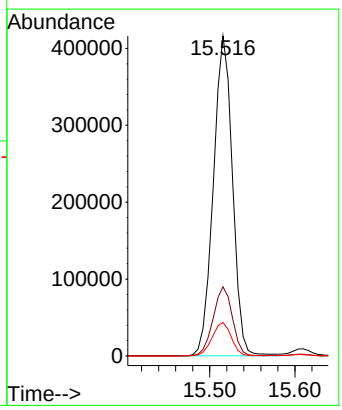


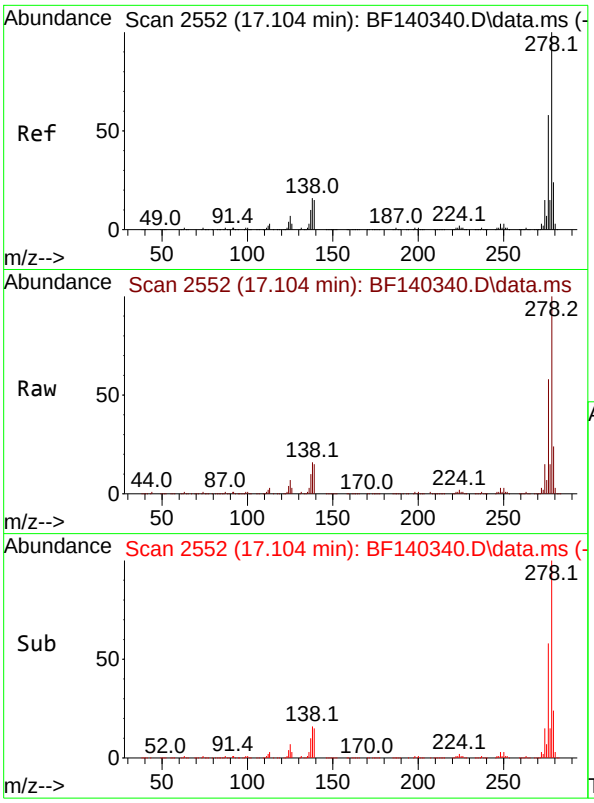


#90
Benzo(a)pyrene
Concen: 39.585 ng
RT: 15.516 min Scan# 2282
Delta R.T. 0.024 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:252 Resp: 648346

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.6
125	10.5	8.4	12.6



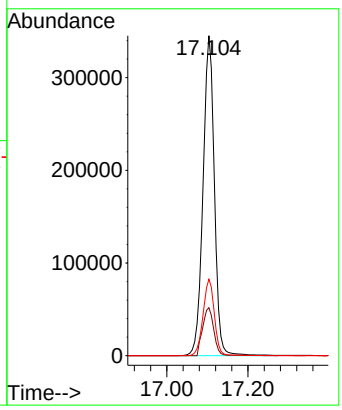


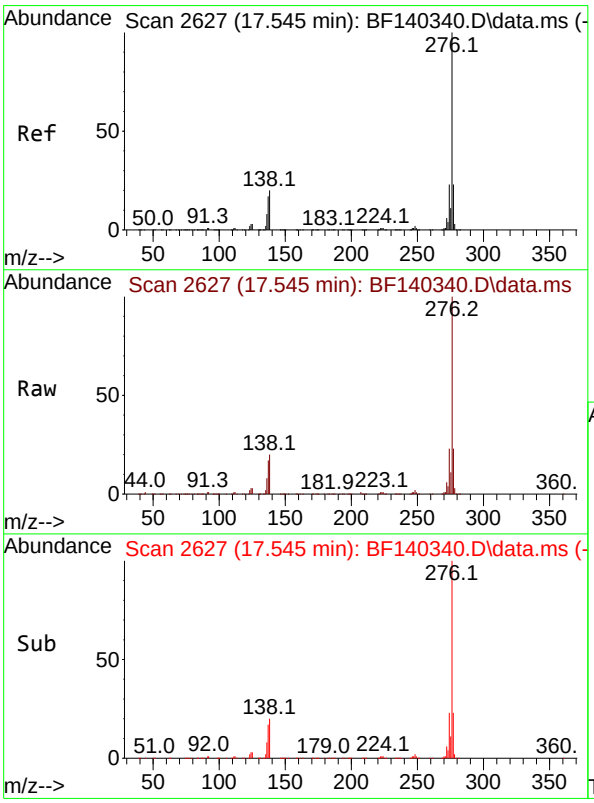
#91
Dibenzo(a,h)anthracene
Concen: 40.712 ng
RT: 17.104 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 670243

Ion	Ratio	Lower	Upper
278	100		
139	15.0	11.8	17.8
279	23.9	18.9	28.3

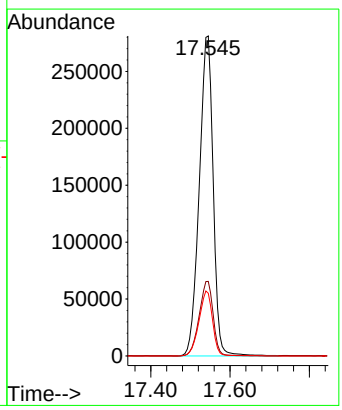




#92
Benzo(g,h,i)perylene
Concen: 40.711 ng
RT: 17.545 min Scan# 2627
Delta R.T. 0.029 min
Lab File: BF140340.D
Acq: 13 Nov 2024 12:48

Tgt Ion:276 Resp: 685184

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	19.6	16.0	24.0



QC SAMPLE DATA

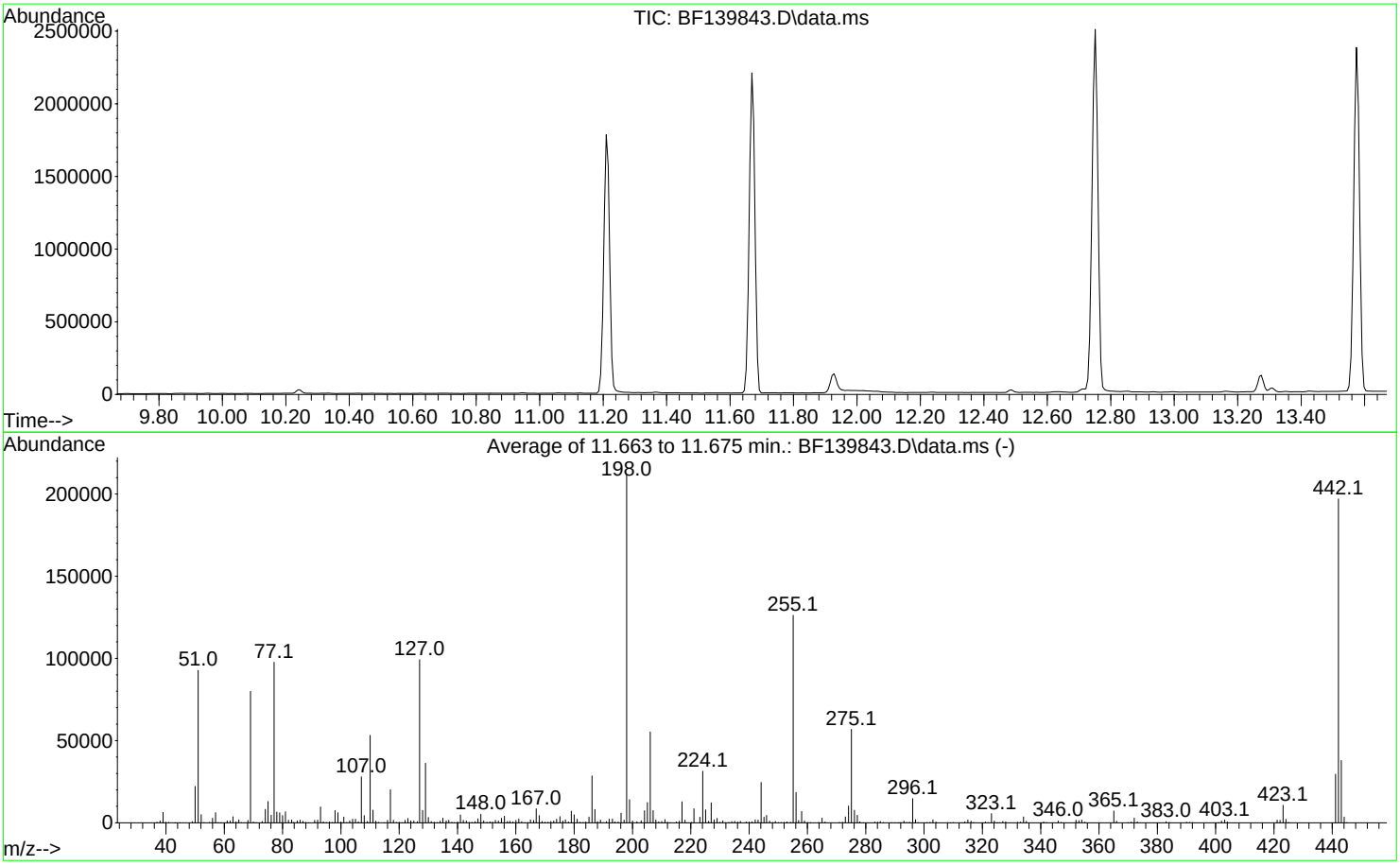
Sample Results: **BF139843.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024



AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1621

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.8	92701	PASS
68	69	0.00	2	1.9	1486	PASS
69	198	0.00	100	37.8	79959	PASS
70	69	0.00	2	0.7	529	PASS
127	198	10	80	46.9	99176	PASS
197	198	0.00	2	0.8	1650	PASS
198	198	100	100	100.0	211520	PASS
199	198	5	9	6.7	14078	PASS
275	198	10	60	26.9	56867	PASS
365	198	1	100	3.4	7148	PASS
441	198	0.01	100	14.0	29512	PASS
442	442	50	100	100.0	196979	PASS
443	442	15	24	19.2	37896	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/18/2024	BNA_F	BF139843.D
Compound Name	**Response**	**Retention Time**
DDT	585942	13.574
DDD	33558	13.274
DDE	421	12.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
33979	619921	5.48

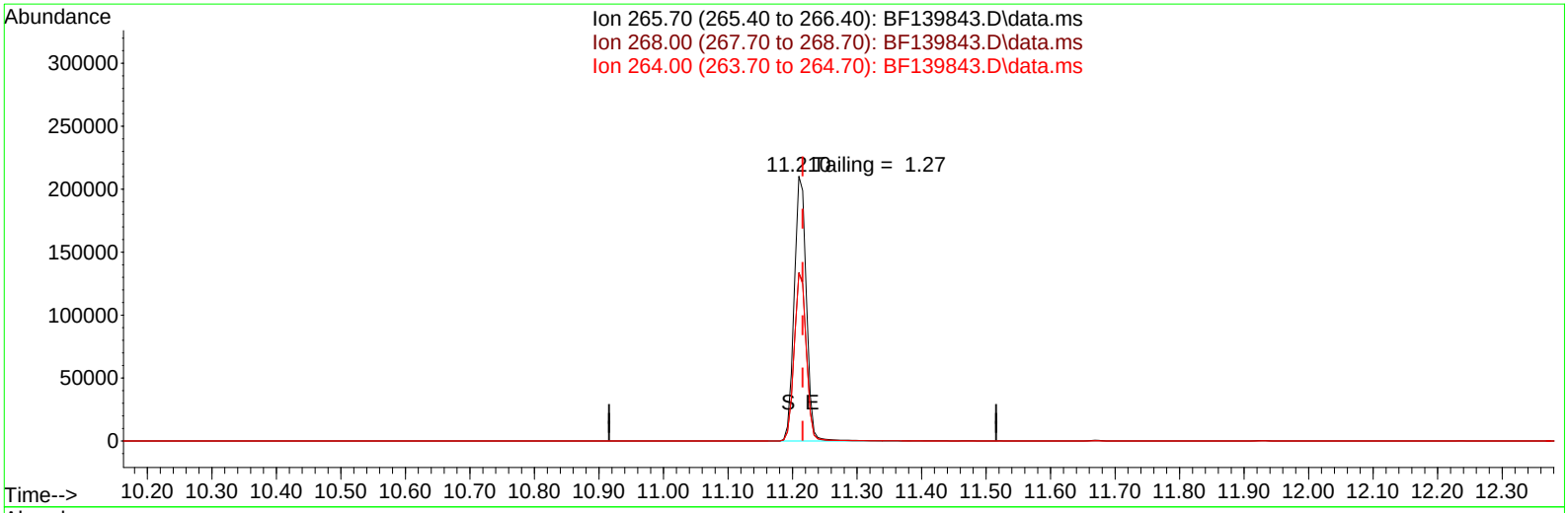
Instrument :
BNA_F
ClientSampleId :
DFTPP

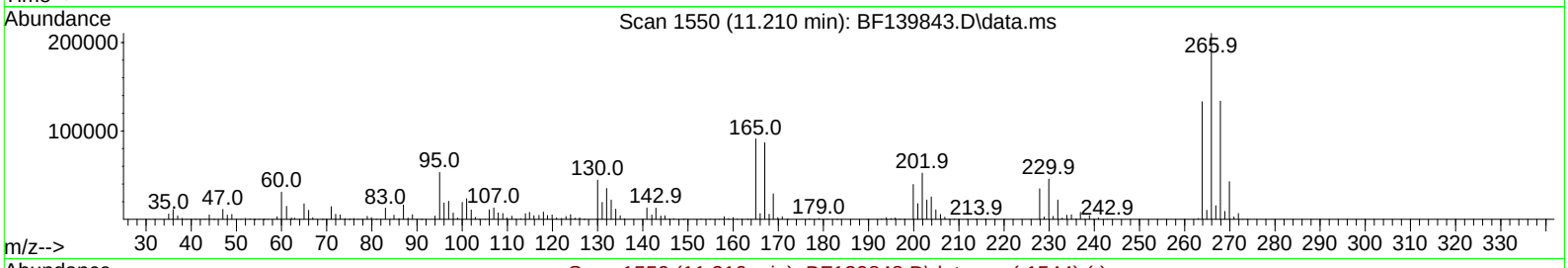
Sample Results: **BF139843.D**

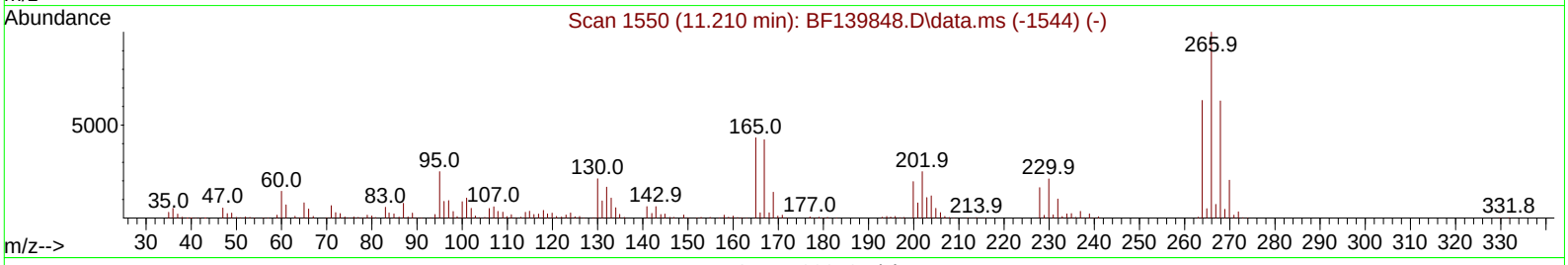
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 18 11:03:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 11:03:04 2024
Response via : Initial Calibration







TIC: BF139843.D\data.ms

(70) Pentachlorophenol (C)

11.210min (-0.006) 60102.24 ng

response 277191

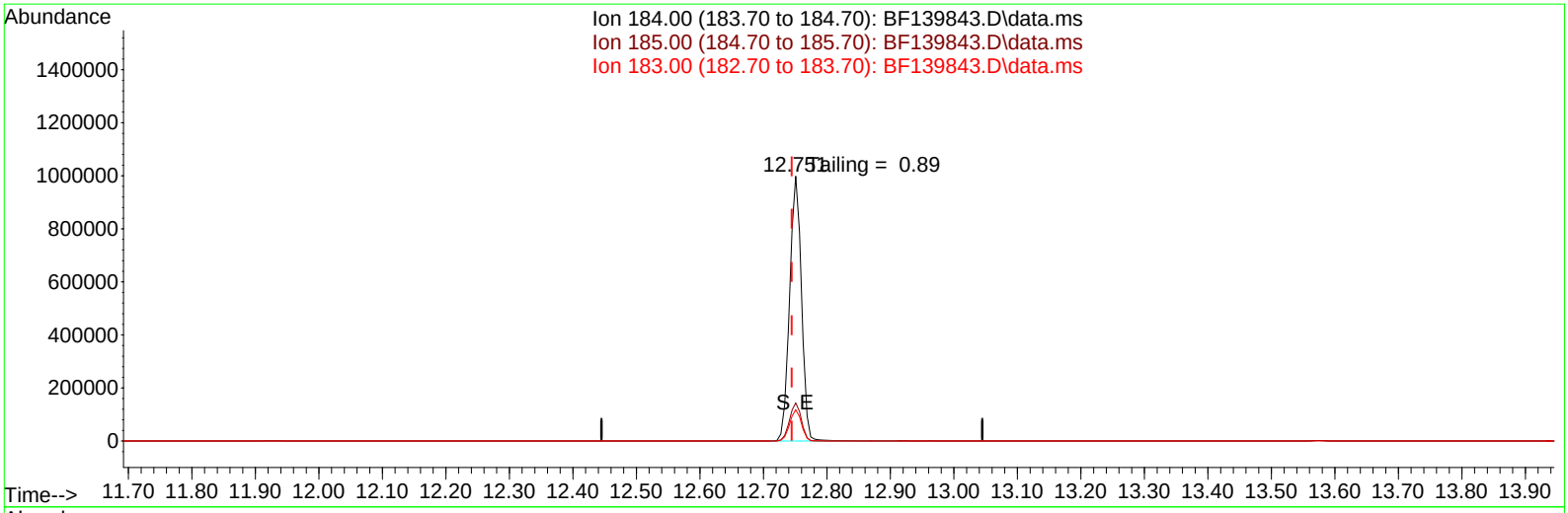
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	63.60
264.00	62.50	63.30
0.00	0.00	0.00

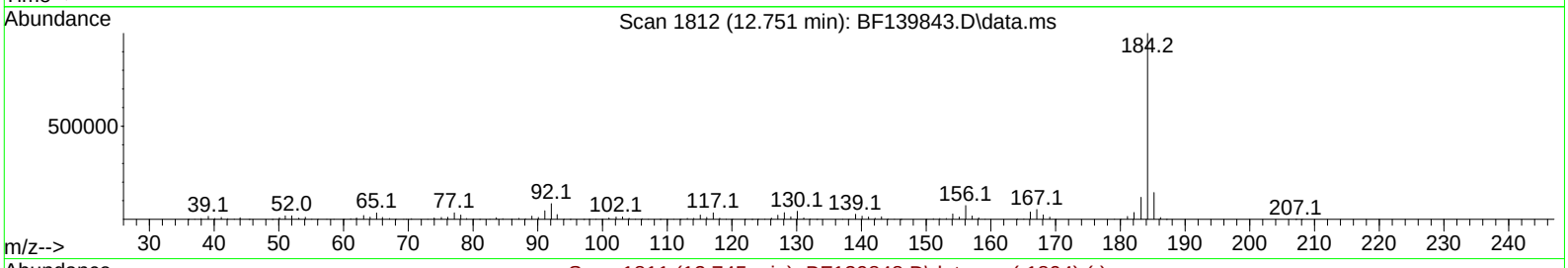
Sample Results: **BF139843.D**

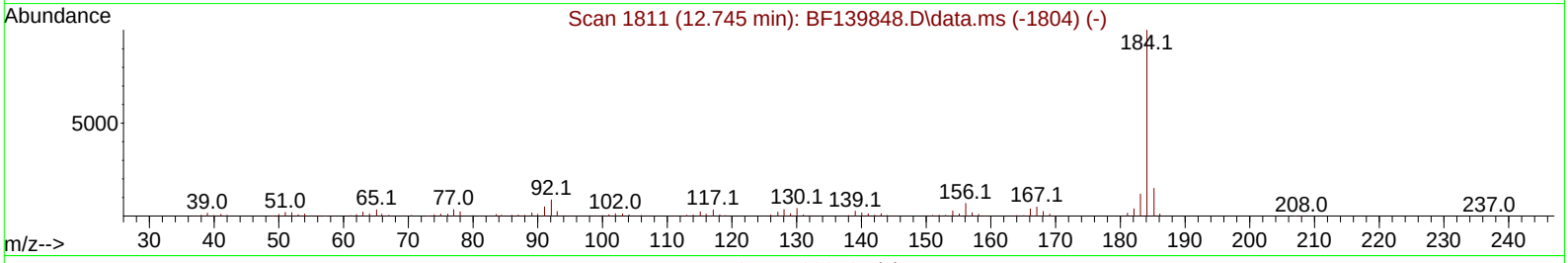
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 18 11:03:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 11:03:04 2024
Response via : Initial Calibration







TIC: BF139843.D\data.ms

(77) Benzidine

12.751min (+ 0.006) 86231.01 ng

response 1303015

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.39
183.00	11.70	11.82
0.00	0.00	0.00

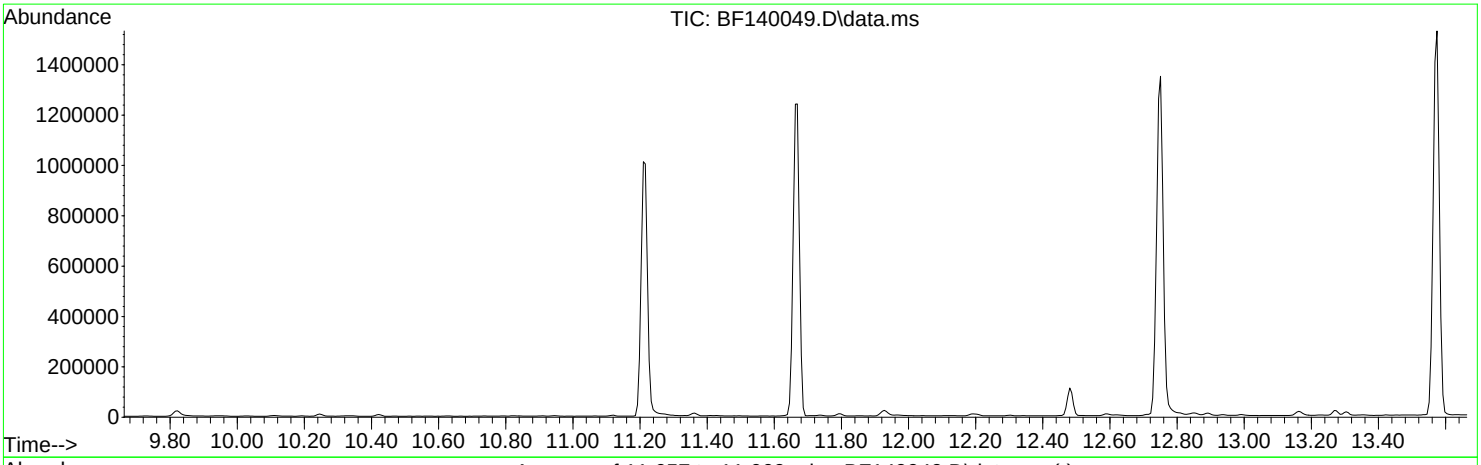
Sample Results: **BF140049.D**

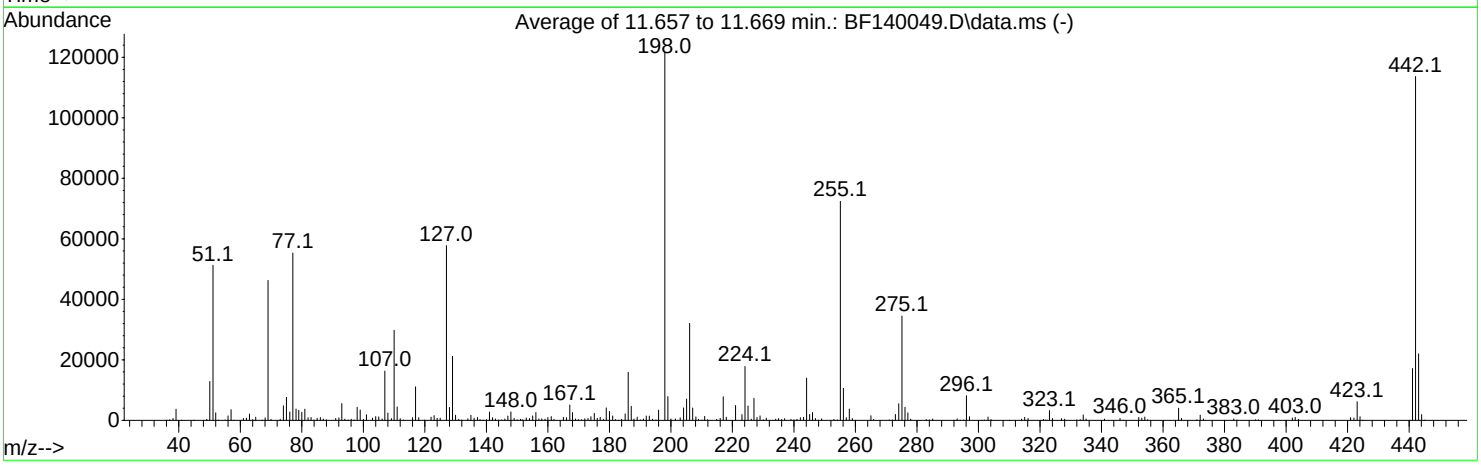
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140049.D
Acq On : 26 Oct 2024 10:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024





AutoFind: Scans 1626, 1627, 1628; Background Corrected with Scan 1620

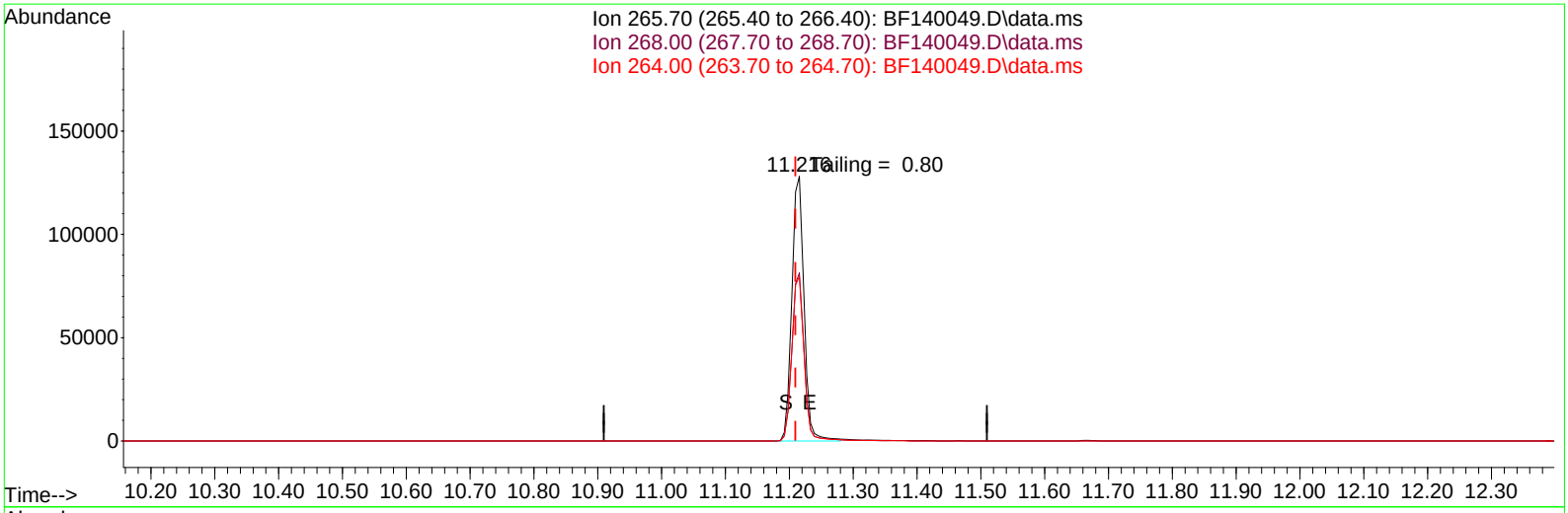
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.1	51240	PASS
68	69	0.00	2	1.8	856	PASS
69	198	0.00	100	38.1	46282	PASS
70	69	0.00	2	0.7	328	PASS
127	198	10	80	47.5	57773	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	121589	PASS
199	198	5	9	6.5	7892	PASS
275	198	10	60	28.3	34461	PASS
365	198	1	100	3.3	4026	PASS
441	198	0.01	100	14.1	17140	PASS
442	442	50	100	100.0	113635	PASS
443	442	15	24	19.4	22013	PASS

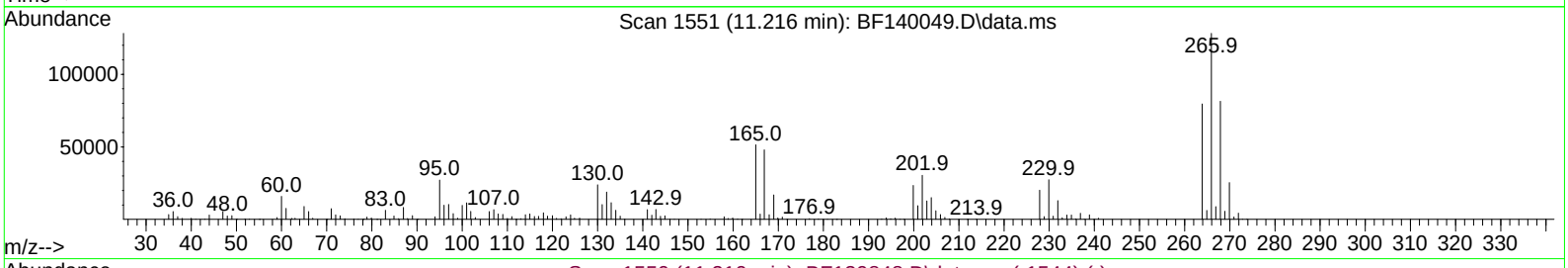
Sample Results: **BF140049.D**

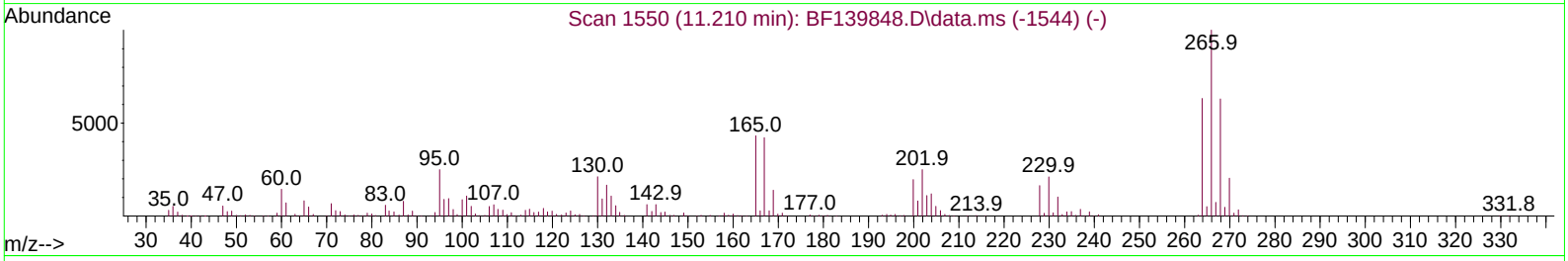
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140049.D
Acq On : 26 Oct 2024 10:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 28 01:04:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF140049.D\data.ms

(70) Pentachlorophenol (C)

11.216min (+ 0.006) 14128.66 ng

response 173165

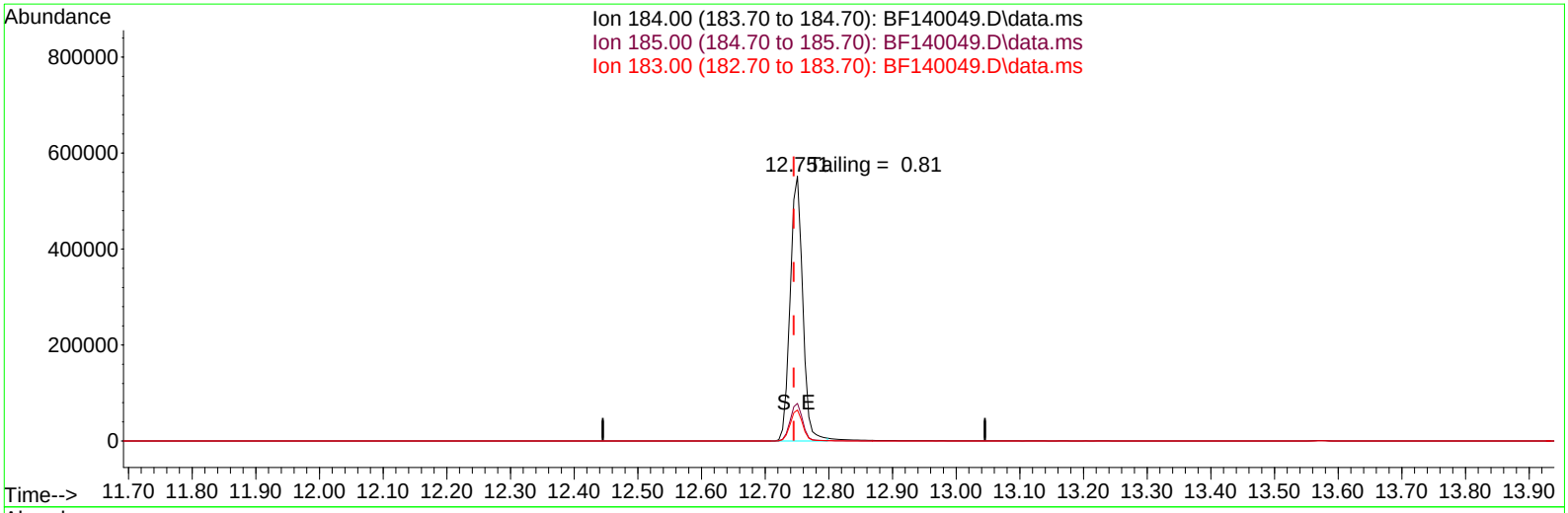
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	63.52
264.00	63.20	62.12
0.00	0.00	0.00

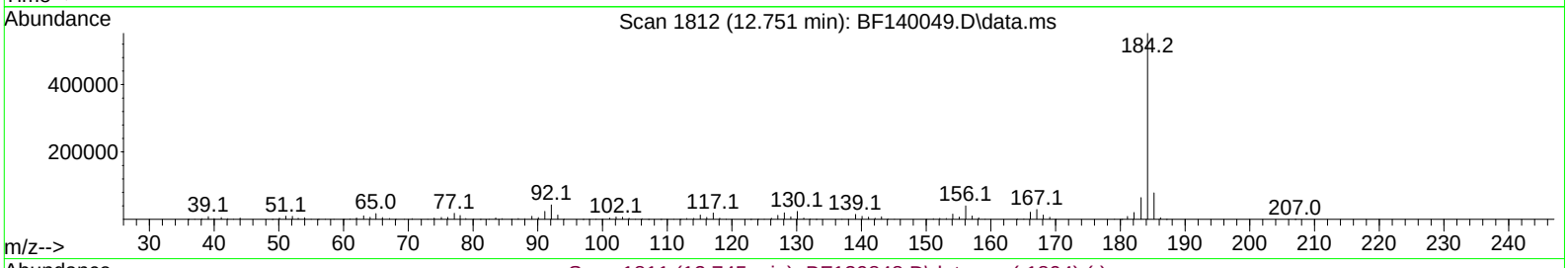
Sample Results: **BF140049.D**

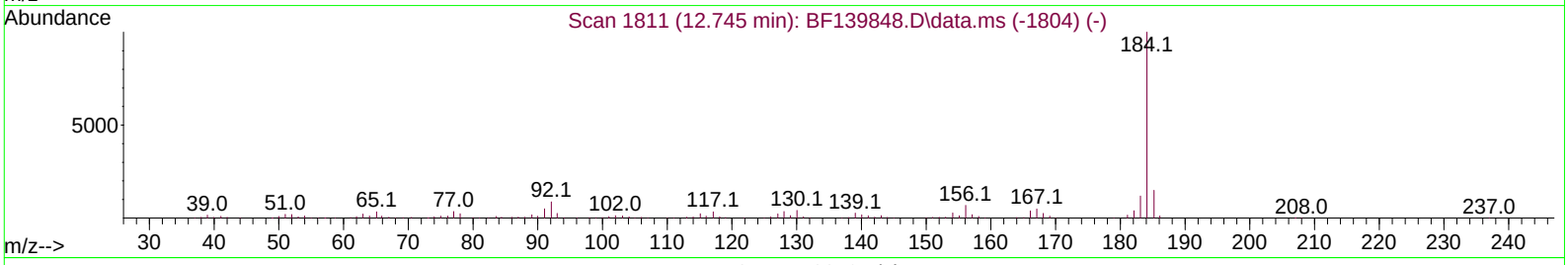
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140049.D
Acq On : 26 Oct 2024 10:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 28 01:04:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF140049.D\data.ms

(77) Benzidine

12.751min (+ 0.006) 46047.22 ng

response 771559

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	14.21
183.00	11.80	11.71
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/26/2024	BNA_F	BF140049.D
Compound Name	**Response**	**Retention Time**
DDT	384498	13.574
DDD	9181	13.274
DDE	1042	12.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
10223	394721	2.59

Instrument :
BNA_F
ClientSampleId :
DFTPP

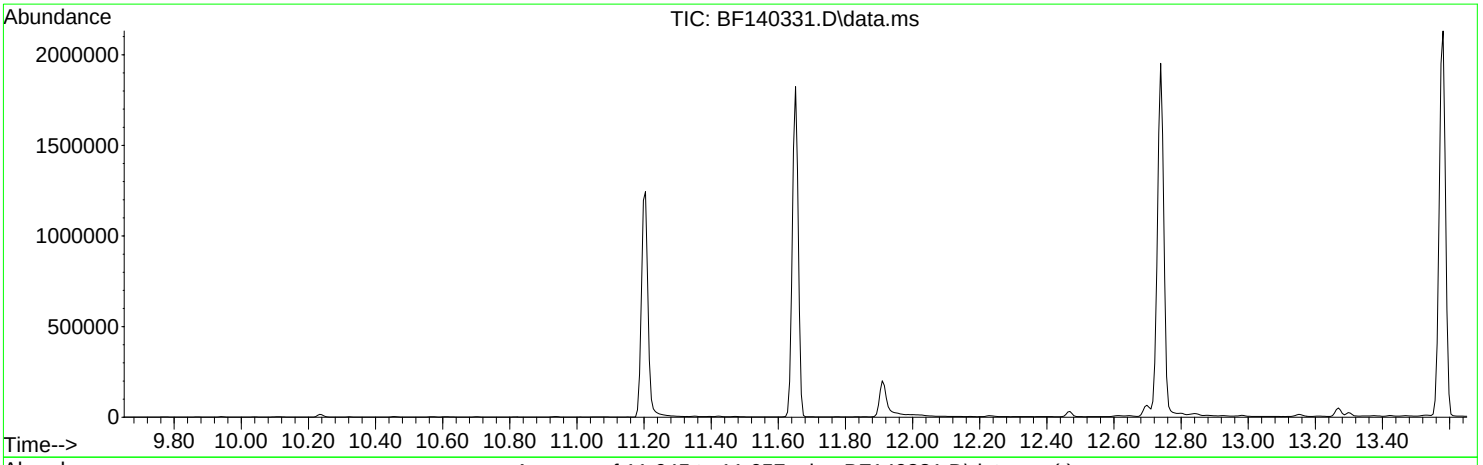
Sample Results: **BF140331.D**

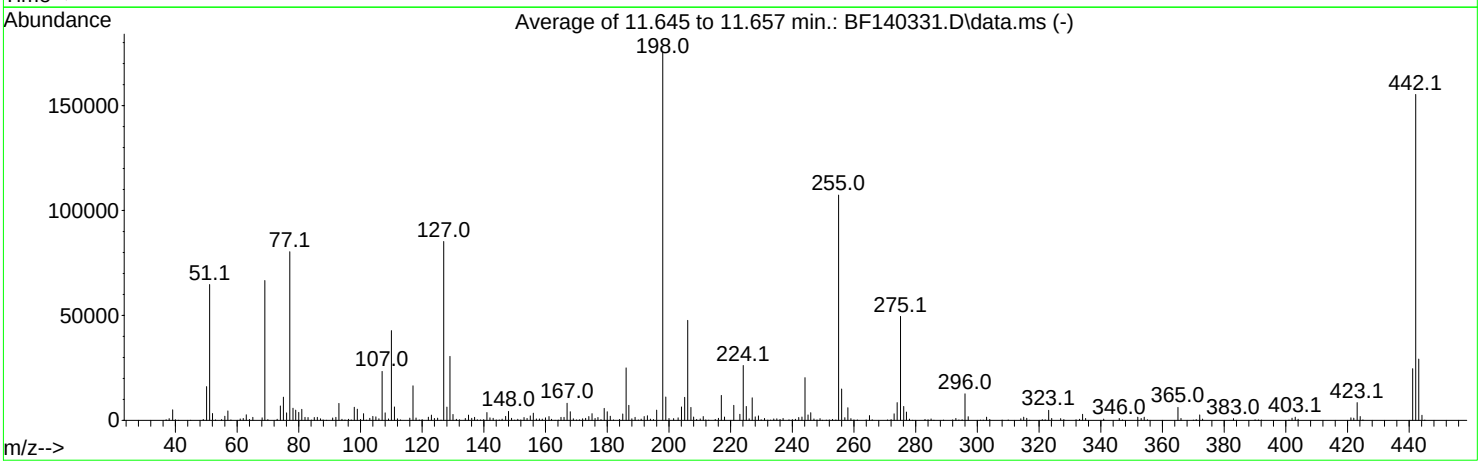
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140331.D
Acq On : 13 Nov 2024 08:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024





AutoFind: Scans 1624, 1625, 1626; Background Corrected with Scan 1617

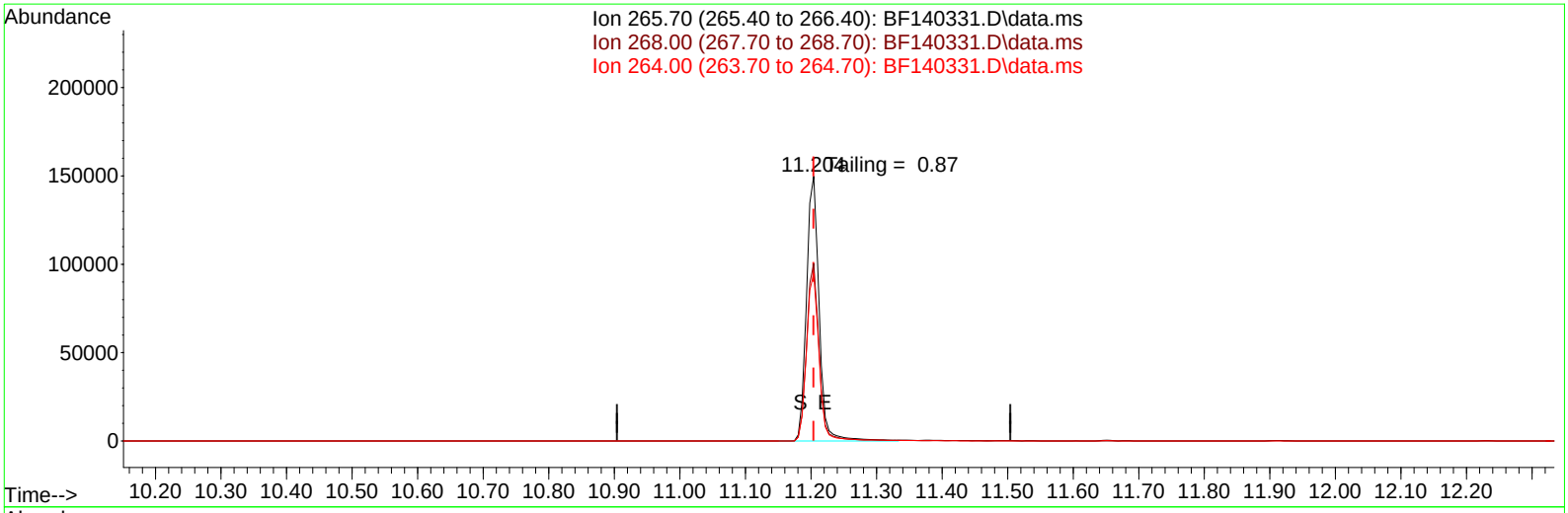
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.9	64757	PASS
68	69	0.00	2	1.8	1226	PASS
69	198	0.00	100	38.0	66677	PASS
70	69	0.00	2	0.6	372	PASS
127	198	10	80	48.6	85245	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	175296	PASS
199	198	5	9	6.4	11148	PASS
275	198	10	60	28.3	49536	PASS
365	198	1	100	3.5	6203	PASS
441	198	0.01	100	14.0	24595	PASS
442	442	50	100	100.0	155288	PASS
443	442	15	24	18.8	29203	PASS

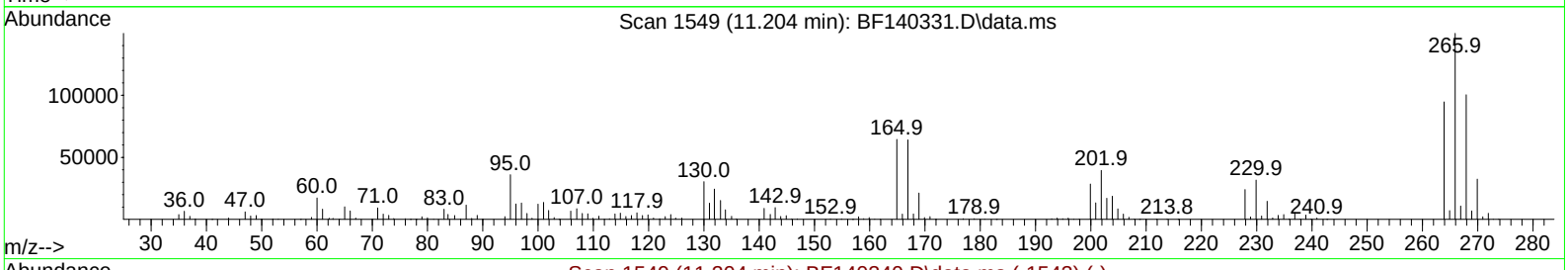
Sample Results: **BF140331.D**

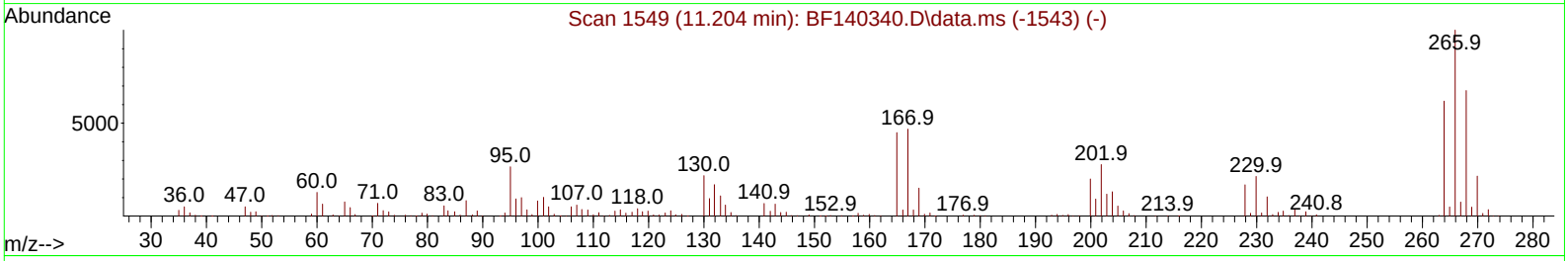
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140331.D
Acq On : 13 Nov 2024 08:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 13 14:44:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration







TIC: BF140331.D\data.ms

(70) Pentachlorophenol (C)

11.204min (0.000) 23118.21 ng

response 201406

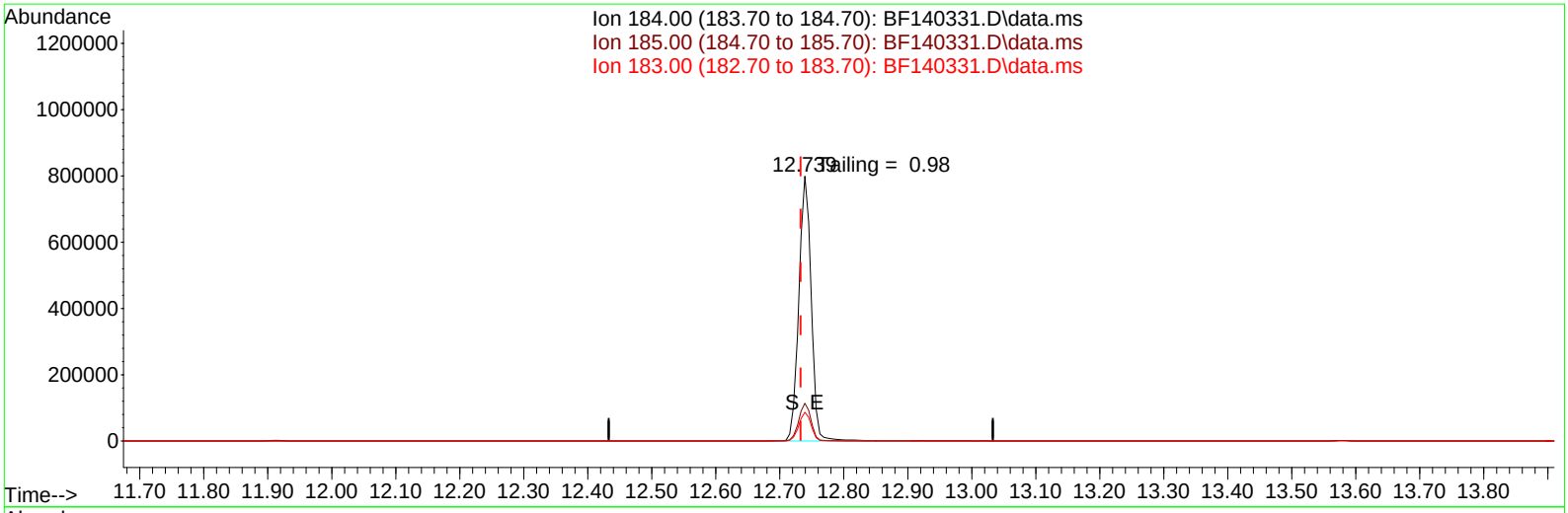
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	67.05
264.00	62.90	63.20
0.00	0.00	0.00

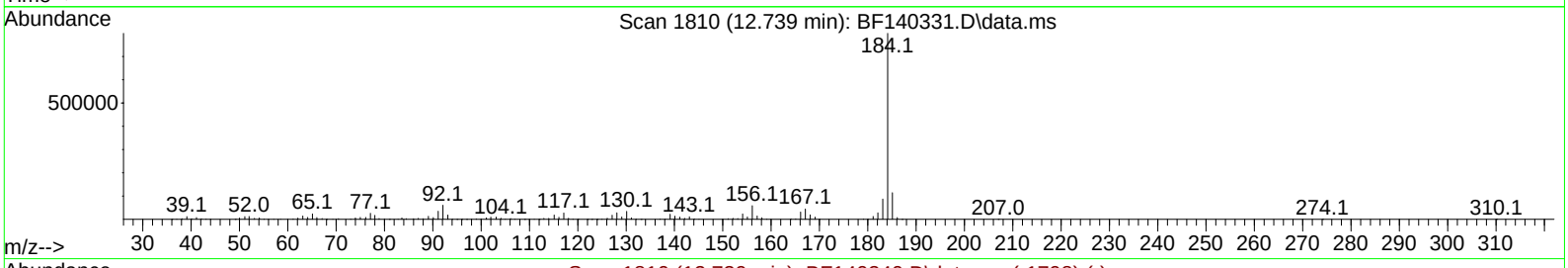
Sample Results: **BF140331.D**

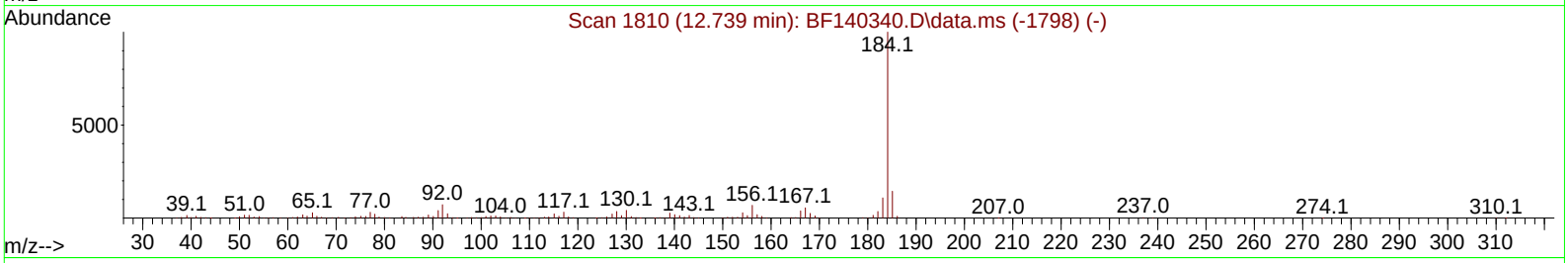
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140331.D
Acq On : 13 Nov 2024 08:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 13 14:44:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration







TIC: BF140331.D\data.ms

(77) Benzidine

12.739min (+ 0.006) 47514.94 ng

response 1075955

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.29
183.00	10.80	10.88
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/13/2024	BNA_F	BF140331.D
Compound Name	**Response**	**Retention Time**
DDT	544964	13.58
DDD	17817	13.269
DDE	776	12.927
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
18593	563557	3.30

Instrument :
BNA_F
ClientSampleId :
DFTPP

Raw Data: **BF140342.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164401BL	SDG No.:	P4495
Lab Sample ID:	PB164401BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	86.8	U	86.8	330	ug/Kg
110-86-1	Pyridine	79.9	U	79.9	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
62-53-3	Aniline	96.9	U	96.9	170	ug/Kg
108-95-2	Phenol	82.9	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	84.6	U	84.6	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	86.0	U	86.0	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	86.5	U	86.5	170	ug/Kg
100-51-6	Benzyl Alcohol	83.0	U	83.0	330	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	83.0	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	85.4	U	85.4	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	330	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	330	ug/Kg

Raw Data: **BF140342.D**

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

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Soil PT			Date Received:	
Client Sample ID:	PB164401BL			SDG No.:	P4495
Lab Sample ID:	PB164401BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.4	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	95.0	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	170	ug/Kg
208-96-8	Acenaphthylene	86.5	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.4	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.6	U	81.6	170	ug/Kg
103-33-3	Azobenzene	79.6	U	79.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	85.0	U	85.0	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	77.3	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	170	ug/Kg

Raw Data: **BF140342.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164401BL	SDG No.:	P4495
Lab Sample ID:	PB164401BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	84.3	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	170	ug/Kg
92-87-5	Benzidine	160	U	160	330	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91.0	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.2	U	83.2	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	129		18 - 112	86%	SPK: 150
13127-88-3	Phenol-d6	126		15 - 107	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.1		18 - 107	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.2		20 - 109	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		10 - 116	80%	SPK: 150
1718-51-0	Terphenyl-d14	82.5		10 - 105	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	155000	6.875			
1146-65-2	Naphthalene-d8	608000	8.157			

Raw Data: **BF140342.D**

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

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Soil PT			Date Received:	
Client Sample ID:	PB164401BL			SDG No.:	P4495
Lab Sample ID:	PB164401BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	344000	9.91			
1517-22-2	Phenanthrene-d10	680000	11.398			
1719-03-5	Chrysene-d12	466000	14.057			
1520-96-3	Perylene-d12	362000	15.574			

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: **BF140342.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140342.D
Acq On : 13 Nov 2024 13:45
Operator : RC/JU
Sample : PB164401BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164401BL

Quant Time: Nov 13 14:42:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

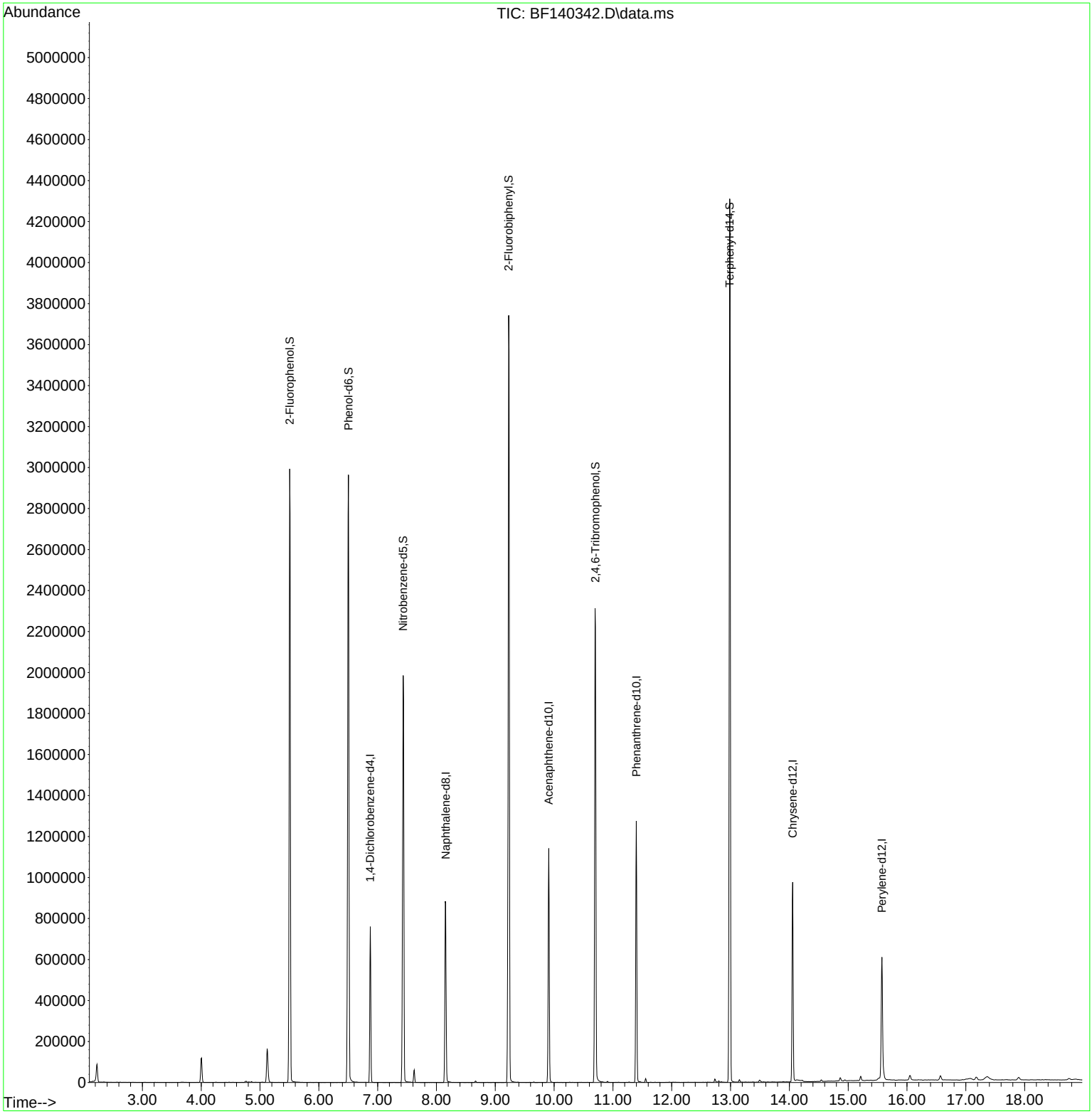
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	155301	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	608379	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	344211	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	680121	20.000	ng	0.00
76) Chrysene-d12	14.057	240	465934	20.000	ng	0.00
86) Perylene-d12	15.574	264	362493	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1169568	128.583	ng	0.01
7) Phenol-d6	6.504	99	1556547	126.308	ng	0.00
23) Nitrobenzene-d5	7.434	82	1017253	87.119	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	412522	120.518	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1823595	85.166	ng	0.00
79) Terphenyl-d14	12.986	244	2214187	82.487	ng	0.00
Target Compounds						Qvalue

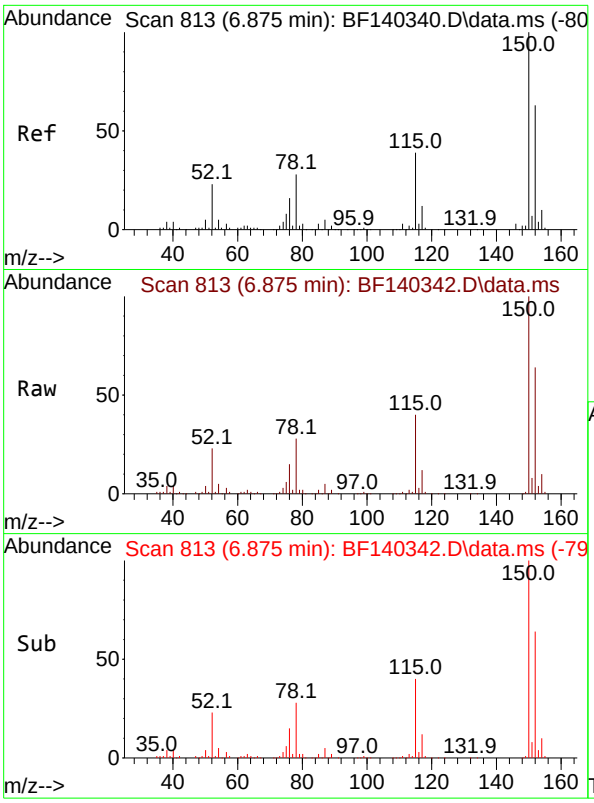
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140342.D
Acq On : 13 Nov 2024 13:45
Operator : RC/JU
Sample : PB164401BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164401BL

Quant Time: Nov 13 14:42:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



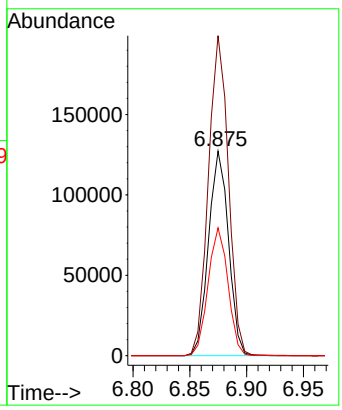


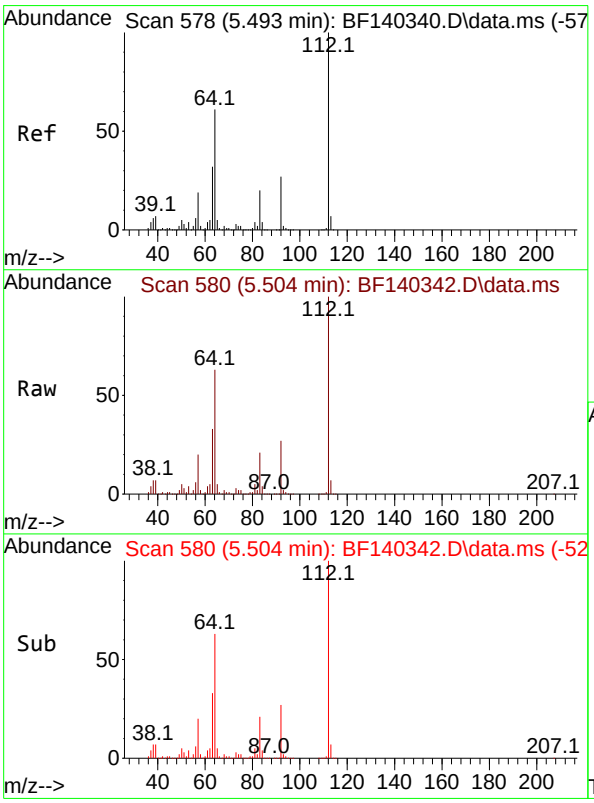
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Instrument :
BNA_F
ClientSampleId :
PB164401BL

Tgt Ion:152 Resp: 155301

Ion	Ratio	Lower	Upper
152	100		
150	156.5	127.4	191.0
115	62.5	47.4	71.2

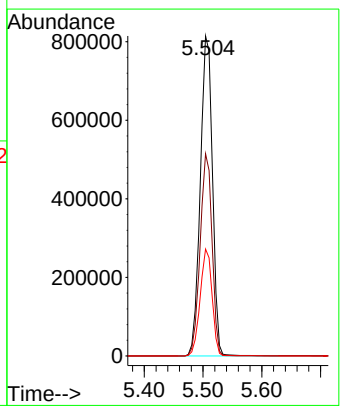


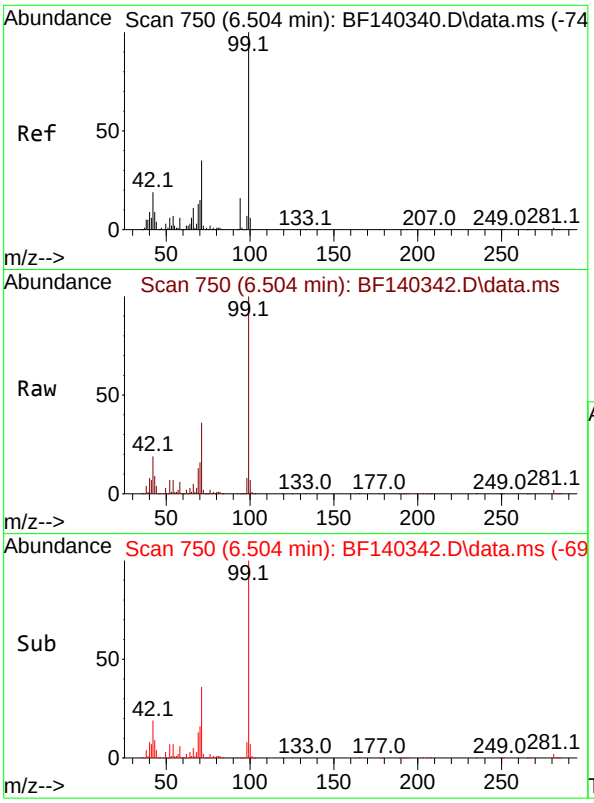


#5
2-Fluorophenol
Concen: 128.583 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Tgt Ion:112 Resp: 1169568

Ion	Ratio	Lower	Upper
112	100		
64	63.2	49.2	73.8
63	33.4	25.6	38.4



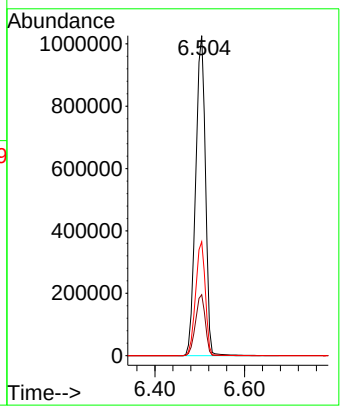


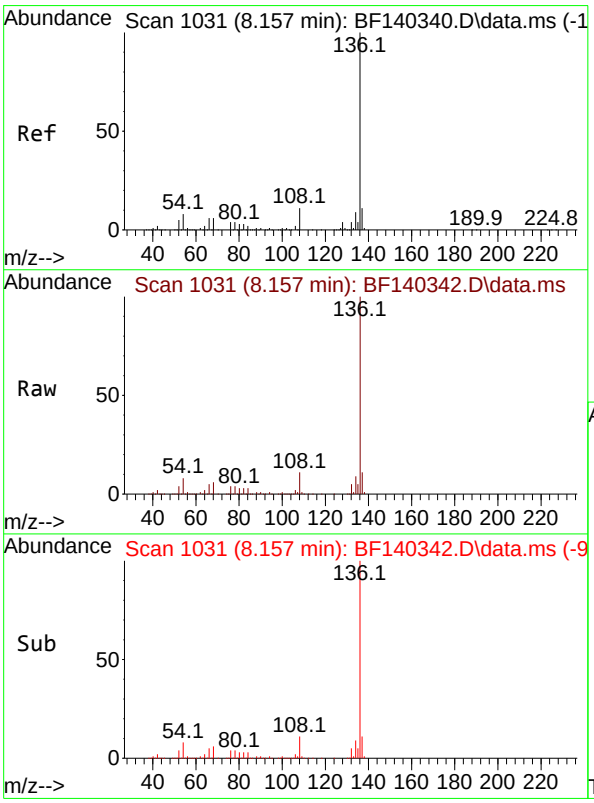
#7
Phenol-d6
Concen: 126.308 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Instrument :
BNA_F
ClientSampleId :
PB164401BL

Tgt Ion: 99 Resp: 1556547

Ion	Ratio	Lower	Upper
99	100		
42	19.1	15.1	22.7
71	35.6	27.9	41.9

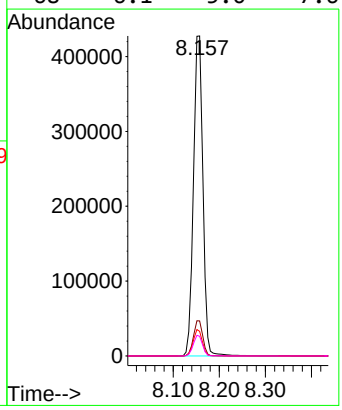


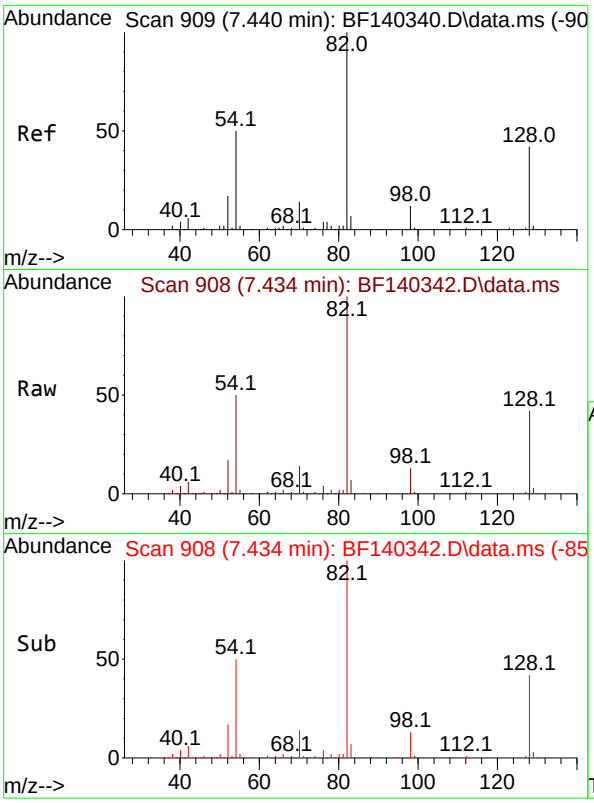


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.000 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Tgt Ion:136 Resp: 608379

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	7.7	6.5	9.7
68	6.1	5.0	7.6



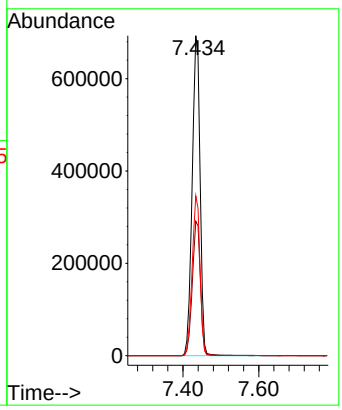


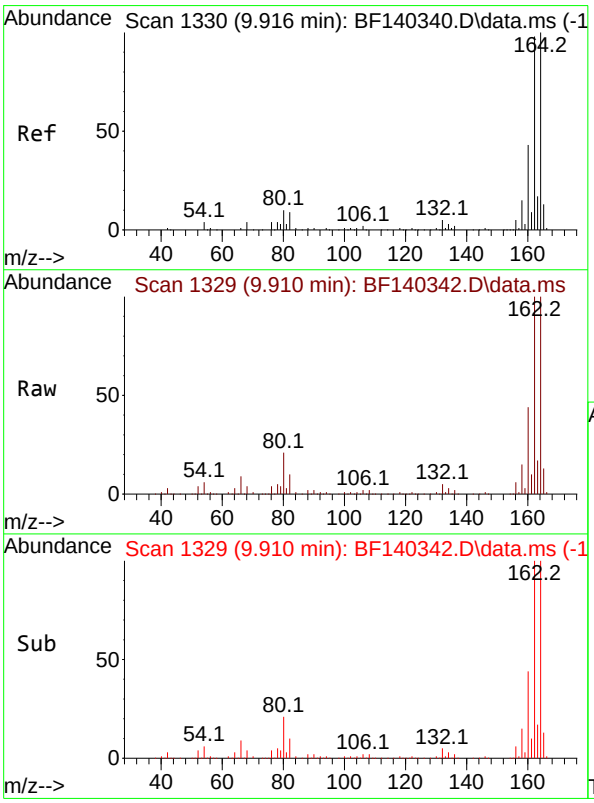
#23
Nitrobenzene-d5
Concen: 87.119 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Instrument :
BNA_F
ClientSampleId :
PB164401BL

Tgt Ion: 82 Resp: 1017253

Ion	Ratio	Lower	Upper
82	100		
128	42.0	33.3	49.9
54	50.0	39.8	59.8

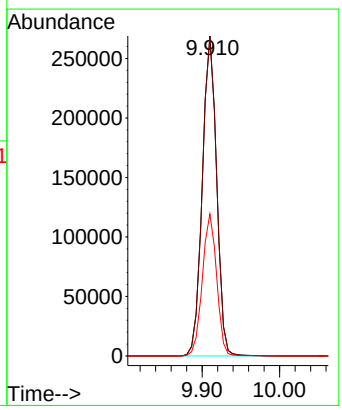


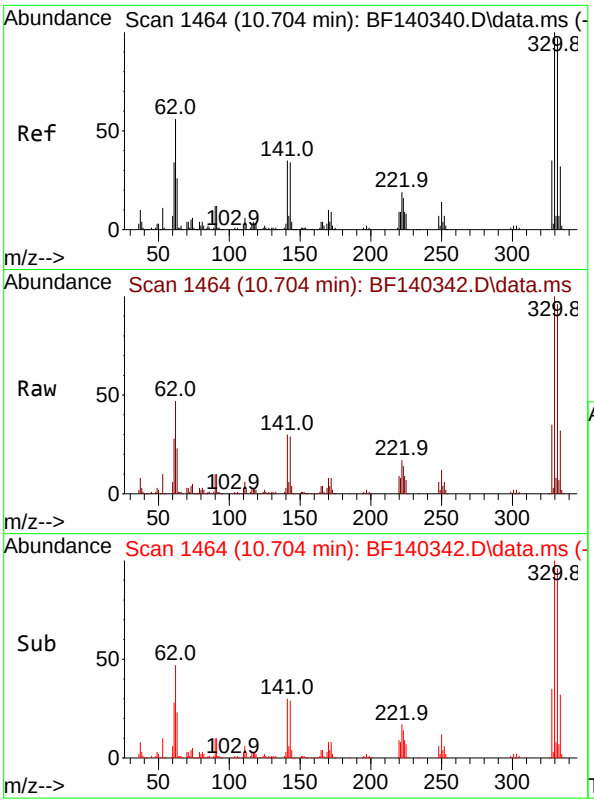


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Tgt Ion:164 Resp: 344211

Ion	Ratio	Lower	Upper
164	100		
162	99.7	79.8	119.8
160	44.4	35.4	53.0



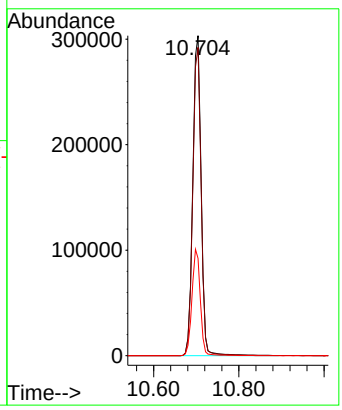


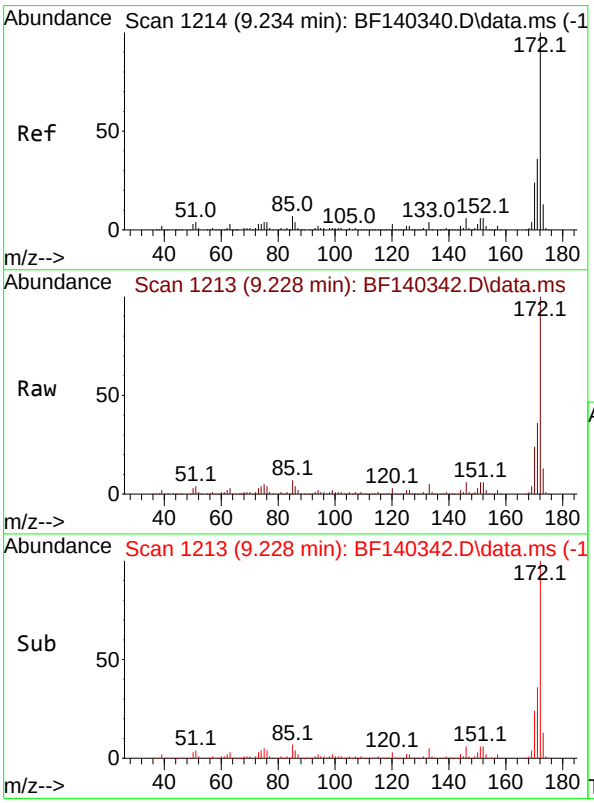
#42
2,4,6-Tribromophenol
Concen: 120.518 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Instrument :
BNA_F
ClientSampleId :
PB164401BL

Tgt Ion:330 Resp: 412522

Ion	Ratio	Lower	Upper
330	100		
332	96.2	75.9	113.9
141	33.3	26.9	40.3

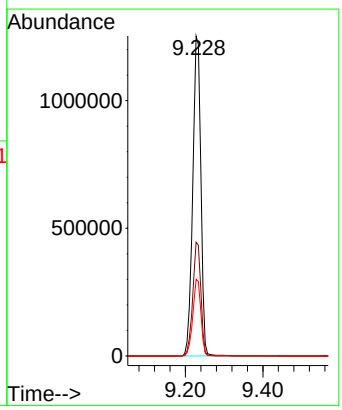


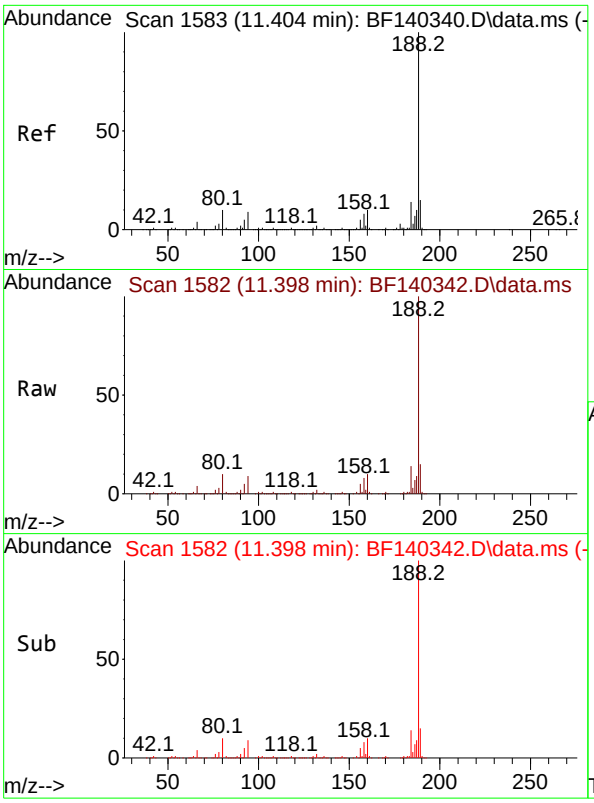


#45
2-Fluorobiphenyl
Concen: 85.166 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Tgt Ion:172 Resp: 1823595

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.5	42.7
170	23.9	19.1	28.7



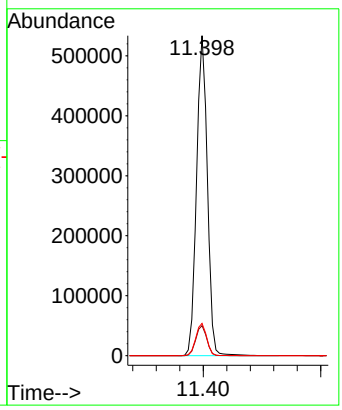


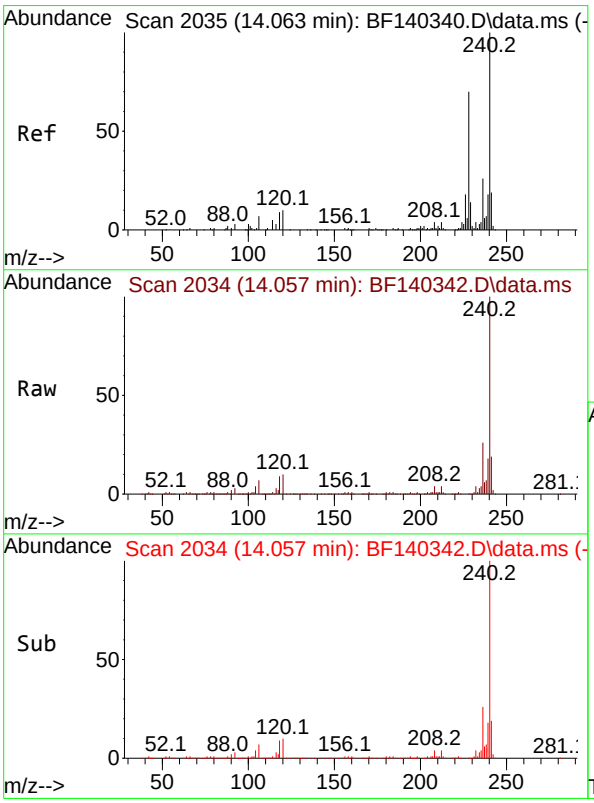
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Instrument :
BNA_F
ClientSampleId :
PB164401BL

Tgt Ion:188 Resp: 680121

Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.6	11.4
80	10.1	8.0	12.0

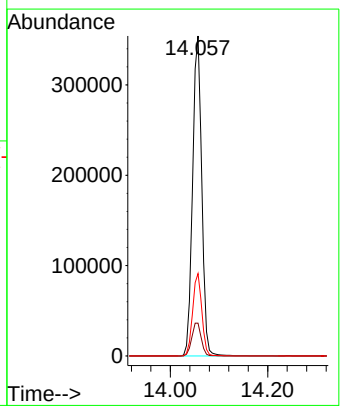


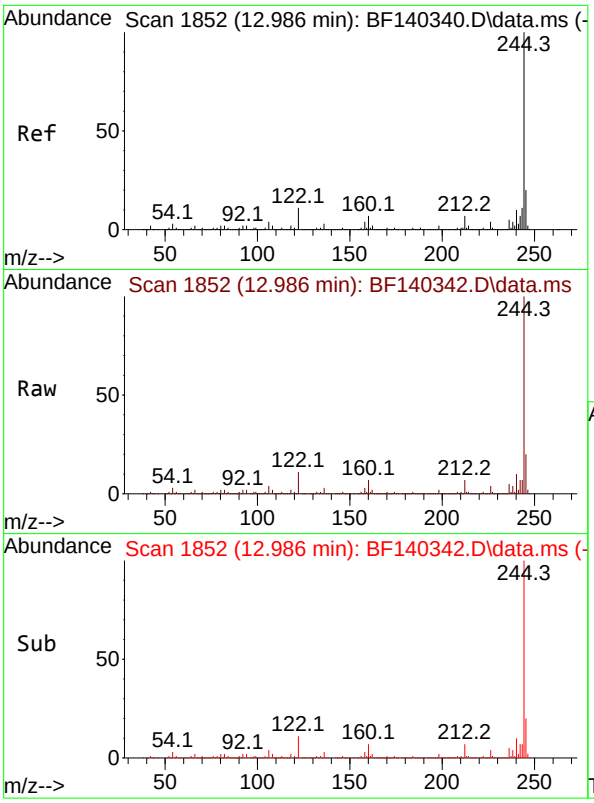


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Tgt Ion:240 Resp: 465934

Ion	Ratio	Lower	Upper
240	100		
120	10.2	8.8	13.2
236	25.8	20.9	31.3



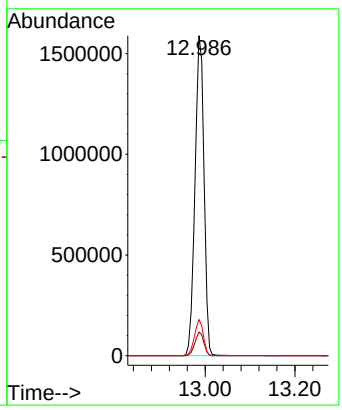


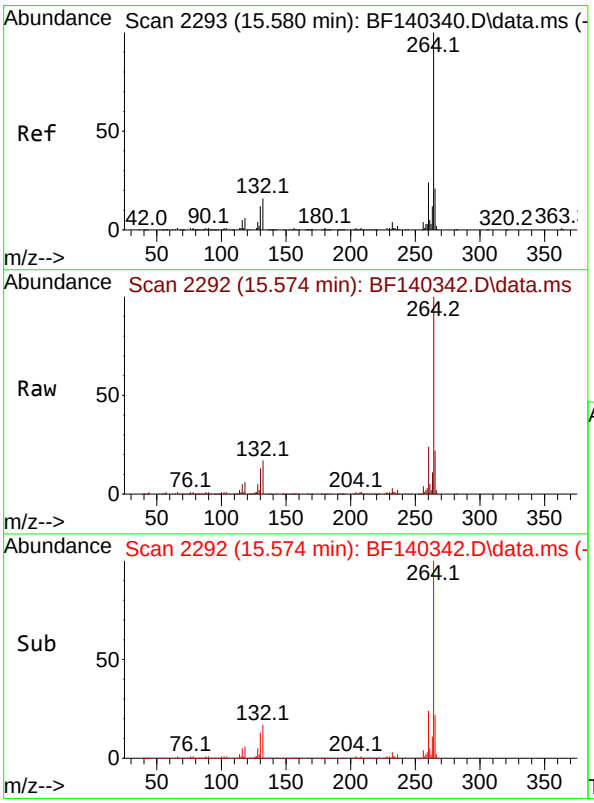
#79
Terphenyl-d14
Concen: 82.487 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Instrument :
BNA_F
ClientSampleId :
PB164401BL

Tgt Ion:244 Resp: 2214187

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.8
122	11.2	8.8	13.2

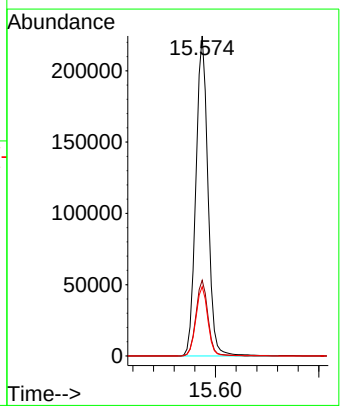




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2292
Delta R.T. 0.018 min
Lab File: BF140342.D
Acq: 13 Nov 2024 13:45

Tgt Ion:264 Resp: 362493

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	21.7	17.1	25.7



Raw Data: **BF140052.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164401BS	SDG No.:	P4495
Lab Sample ID:	PB164401BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	1300		86.7	330	ug/Kg
110-86-1	Pyridine	1300		79.8	170	ug/Kg
100-52-7	Benzaldehyde	450		180	330	ug/Kg
62-53-3	Aniline	1200		96.8	170	ug/Kg
108-95-2	Phenol	1400		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1500		83.4	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	1500		84.5	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	1400		85.9	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	1400		86.4	170	ug/Kg
100-51-6	Benzyl Alcohol	1500		82.9	330	ug/Kg
95-48-7	2-Methylphenol	1400		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		90.8	170	ug/Kg
98-86-2	Acetophenone	1400		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.7	170	ug/Kg
78-59-1	Isophorone	1400		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1700		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		75.4	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1400		85.3	170	ug/Kg
65-85-0	Benzoic acid	1300		240	330	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	580		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.2	170	ug/Kg
105-60-2	Caprolactam	1500		86.7	330	ug/Kg

Raw Data: **BF140052.D**

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

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Soil PT			Date Received:	
Client Sample ID:	PB164401BS			SDG No.:	P4495
Lab Sample ID:	PB164401BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	1400		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5400	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.6	170	ug/Kg
208-96-8	Acenaphthylene	1500		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	1000		89.1	170	ug/Kg
83-32-9	Acenaphthene	1600		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3600	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3200	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1400		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.5	170	ug/Kg
103-33-3	Azobenzene	1400		79.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		84.9	170	ug/Kg
1912-24-9	Atrazine	1700		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	2900	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1500		83.9	170	ug/Kg
120-12-7	Anthracene	1500		84.3	170	ug/Kg
86-74-8	Carbazole	1500		80.2	170	ug/Kg

Raw Data: **BF140052.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164401BS	SDG No.:	P4495
Lab Sample ID:	PB164401BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	1400		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
92-87-5	Benzidine	1600		160	330	ug/Kg
129-00-0	Pyrene	1500		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		80.6	170	ug/Kg
218-01-9	Chrysene	1500		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		81.0	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	1600		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		74.6	170	ug/Kg
90-12-0	1-Methylnaphthalene	1400		83.1	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	115		18 - 112	77%	SPK: 150
13127-88-3	Phenol-d6	112		15 - 107	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.7		18 - 107	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.9		20 - 109	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		10 - 116	90%	SPK: 150
1718-51-0	Terphenyl-d14	87.9		10 - 105	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	134000	6.887			
1146-65-2	Naphthalene-d8	523000	8.169			

Raw Data: **BF140052.D**

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

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Soil PT			Date Received:	
Client Sample ID:	PB164401BS			SDG No.:	P4495
Lab Sample ID:	PB164401BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	287000	9.928			
1517-22-2	Phenanthrene-d10	515000	11.416			
1719-03-5	Chrysene-d12	290000	14.057			
1520-96-3	Perylene-d12	271000	15.527			

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: **BF140052.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140052.D
Acq On : 26 Oct 2024 11:34
Operator : RC/JU
Sample : PB164401BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 01:05:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	133953	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	523078	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	286545	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	514956	20.000	ng		0.00
76) Chrysene-d12	14.057	240	290190	20.000	ng		0.00
86) Perylene-d12	15.527	264	270508	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	986950	115.343	ng		0.02
7) Phenol-d6	6.516	99	1244065	112.258	ng		0.00
23) Nitrobenzene-d5	7.451	82	809122	85.732	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	362775	135.351	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1453842	83.853	ng		0.00
79) Terphenyl-d14	12.998	244	1564872	87.871	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.775	88	146496	36.720	ng		94
3) Pyridine	3.528	79	386668	39.102	ng		97
4) n-Nitrosodimethylamine	3.481	42	214789	40.427	ng		98
6) Aniline	6.551	93	383651	37.145	ng		99
8) 2-Chlorophenol	6.675	128	391637	44.771	ng		97
9) Benzaldehyde	6.440	77	83963	13.468	ng		97
10) Phenol	6.528	94	489257m	42.823	ng		
11) bis(2-Chloroethyl)ether	6.622	93	377809	42.783	ng		100
12) 1,3-Dichlorobenzene	6.828	146	422642	42.090	ng		100
13) 1,4-Dichlorobenzene	6.904	146	426636	42.528	ng		99
14) 1,2-Dichlorobenzene	7.057	146	409319	43.717	ng		99
15) Benzyl Alcohol	7.028	79	360303	44.322	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	612220	40.658	ng		98
17) 2-Methylphenol	7.134	107	320253	42.935	ng		99
18) Hexachloroethane	7.404	117	154207	43.106	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	274155	40.789	ng		97
20) 3+4-Methylphenols	7.287	107	390957	40.978	ng	#	91
22) Acetophenone	7.298	105	535776	41.819	ng		98
24) Nitrobenzene	7.469	77	427531	41.317	ng		100
25) Isophorone	7.710	82	764949	42.704	ng		100
26) 2-Nitrophenol	7.787	139	194486	49.821	ng		96
27) 2,4-Dimethylphenol	7.816	122	320800	49.284	ng		100
28) bis(2-Chloroethoxy)met...	7.916	93	442314	40.755	ng		100
29) 2,4-Dichlorophenol	8.028	162	318856	43.007	ng		98
30) 1,2,4-Trichlorobenzene	8.110	180	341281	41.600	ng		99
31) Naphthalene	8.192	128	1144384	42.420	ng		100
32) Benzoic acid	7.934	122	221089	38.943	ng		97
33) 4-Chloroaniline	8.239	127	160319	17.428	ng		97
34) Hexachlorobutadiene	8.310	225	222248	43.117	ng		98
35) Caprolactam	8.610	113	104721m	44.422	ng		
36) 4-Chloro-3-methylphenol	8.716	107	352609	42.951	ng		99
37) 2-Methylnaphthalene	8.887	142	708246	42.867	ng		99
38) 1-Methylnaphthalene	8.986	142	664636	41.002	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	336499	43.529	ng		99
41) Hexachlorocyclopentadiene	9.039	237	439499	163.391	ng		100
43) 2,4,6-Trichlorophenol	9.157	196	245472	44.850	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140052.D
Acq On : 26 Oct 2024 11:34
Operator : RC/JU
Sample : PB164401BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

Quant Time: Oct 28 01:05:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	247584	43.845	ng		100
46) 1,1'-Biphenyl	9.351	154	854568	42.840	ng		99
47) 2-Chloronaphthalene	9.375	162	683907	42.568	ng		99
48) 2-Nitroaniline	9.469	65	234337	47.690	ng		93
49) Acenaphthylene	9.792	152	1062663	45.751	ng		100
50) Dimethylphthalate	9.651	163	774247	43.379	ng		100
51) 2,6-Dinitrotoluene	9.710	165	175507	45.415	ng		96
52) Acenaphthene	9.963	154	733262	48.802	ng		99
53) 3-Nitroaniline	9.875	138	119085	29.881	ng		98
54) 2,4-Dinitrophenol	9.986	184	179501	109.200	ng	#	1
55) Dibenzofuran	10.133	168	930933	43.183	ng		100
56) 4-Nitrophenol	10.034	139	297136	96.911	ng		99
57) 2,4-Dinitrotoluene	10.116	165	239693	50.437	ng		97
58) Fluorene	10.475	166	710862	43.293	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	209794	47.393	ng		97
60) Diethylphthalate	10.351	149	742904	42.392	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	354589	42.763	ng		99
62) 4-Nitroaniline	10.492	138	178276	47.364	ng		98
63) Azobenzene	10.628	77	770383	41.466	ng		98
65) 4,6-Dinitro-2-methylph...	10.522	198	128121	60.996	ng		89
66) n-Nitrosodiphenylamine	10.586	169	652591	42.342	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	227307	42.848	ng		98
68) Hexachlorobenzene	11.022	284	258374	43.305	ng		99
69) Atrazine	11.110	200	213946	51.244	ng		100
70) Pentachlorophenol	11.216	266	317923	87.799	ng		99
71) Phenanthrene	11.439	178	1079100	44.363	ng		100
72) Anthracene	11.492	178	1093172	46.061	ng		100
73) Carbazole	11.645	167	962703	43.616	ng		99
74) Di-n-butylphthalate	11.975	149	1087234	42.635	ng		99
75) Fluoranthene	12.627	202	1108012	45.059	ng		99
77) Benzidine	12.745	184	233393	48.912	ng		99
78) Pyrene	12.857	202	1139954	44.878	ng		100
80) Butylbenzylphthalate	13.474	149	379877	49.883	ng		96
81) Benzo(a)anthracene	14.045	228	868429	45.972	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	167400	30.393	ng		99
83) Chrysene	14.080	228	776429	44.828	ng		99
84) Bis(2-ethylhexyl)phtha...	14.027	149	419403	49.087	ng		100
85) Di-n-octyl phthalate	14.645	149	608593	39.162	ng		96
87) Indeno(1,2,3-cd)pyrene	17.033	276	803896	46.194	ng		97
88) Benzo(b)fluoranthene	15.098	252	691202	41.946	ng		99
89) Benzo(k)fluoranthene	15.127	252	671210	47.231	ng		99
90) Benzo(a)pyrene	15.468	252	651066	48.018	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	656369	45.212	ng		97
92) Benzo(g,h,i)perylene	17.486	276	610078	42.071	ng		97

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

Sample Results: **BF140052.D**

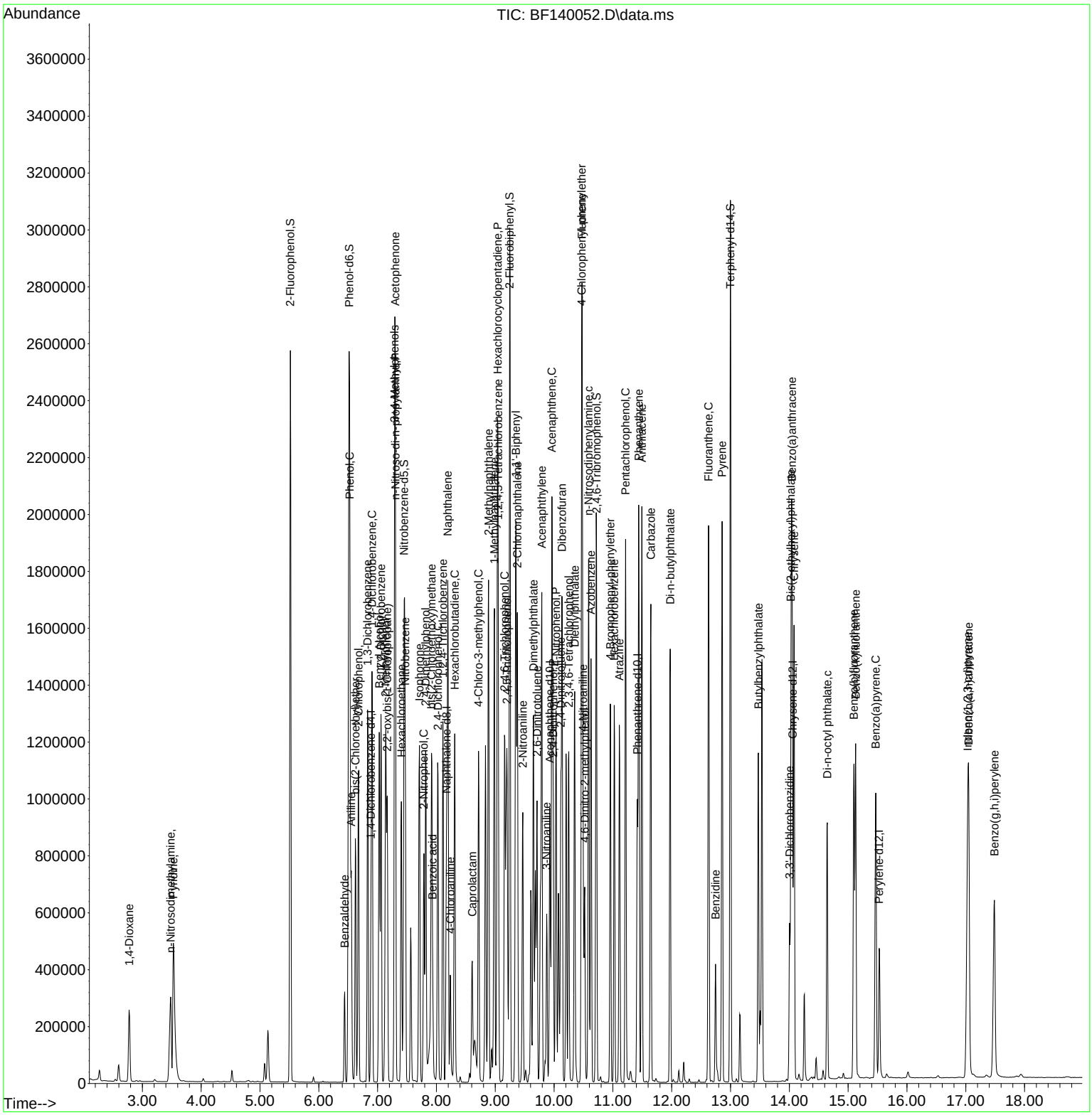
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140052.D
Acq On : 26 Oct 2024 11:34
Operator : RC/JU
Sample : PB164401BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

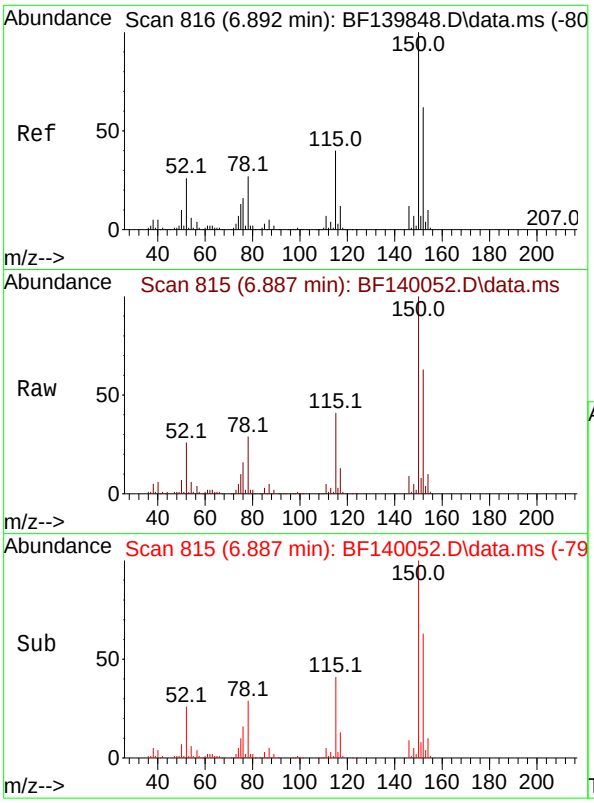
Quant Time: Oct 28 01:05:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

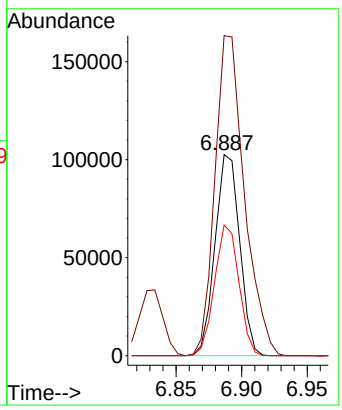




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:152 Resp: 13395

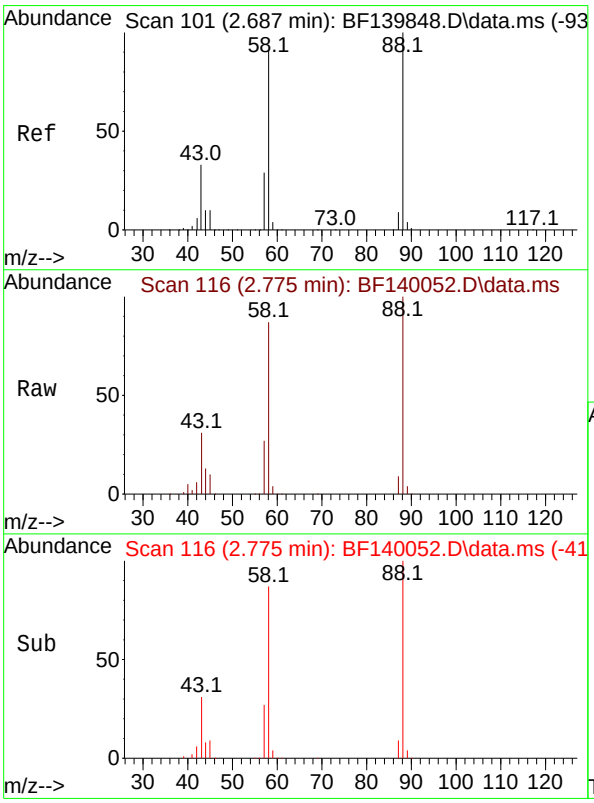
Ion	Ratio	Lower	Upper
152	100		
150	159.1	130.2	195.2
115	65.0	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations
APPROVED

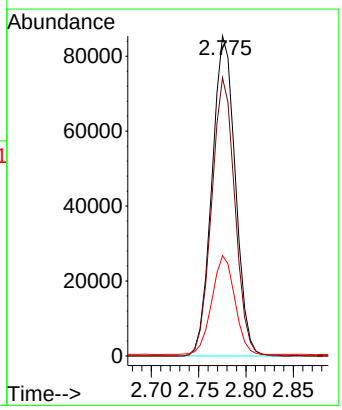
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

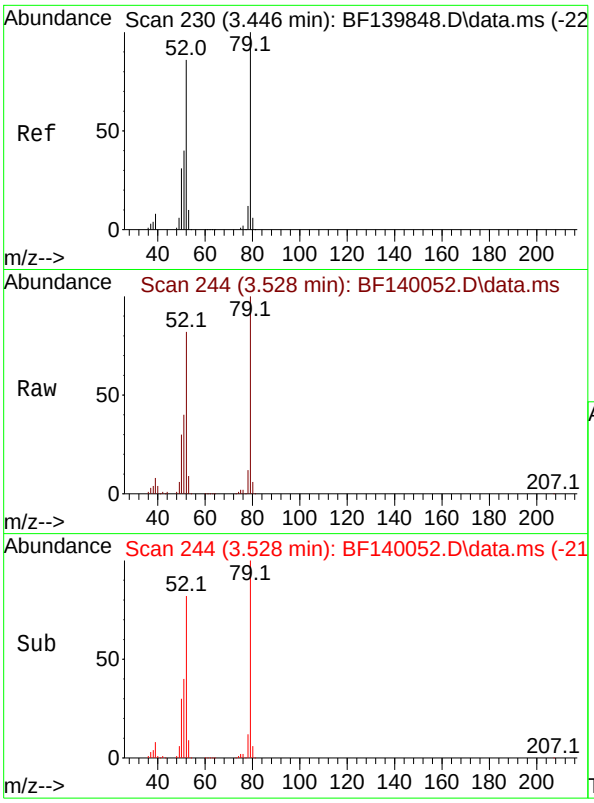


#2
1,4-Dioxane
Concen: 36.720 ng
RT: 2.775 min Scan# 116
Delta R.T. 0.088 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 88 Resp: 146496

Ion	Ratio	Lower	Upper
88	100		
58	86.5	73.3	109.9
43	30.3	27.1	40.7

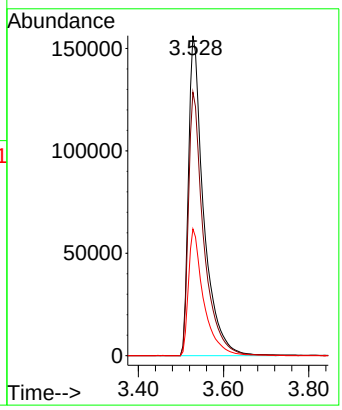




#3
Pyridine
Concen: 39.102 ng
RT: 3.528 min Scan# 2
Delta R.T. 0.083 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 79 Resp: 38666

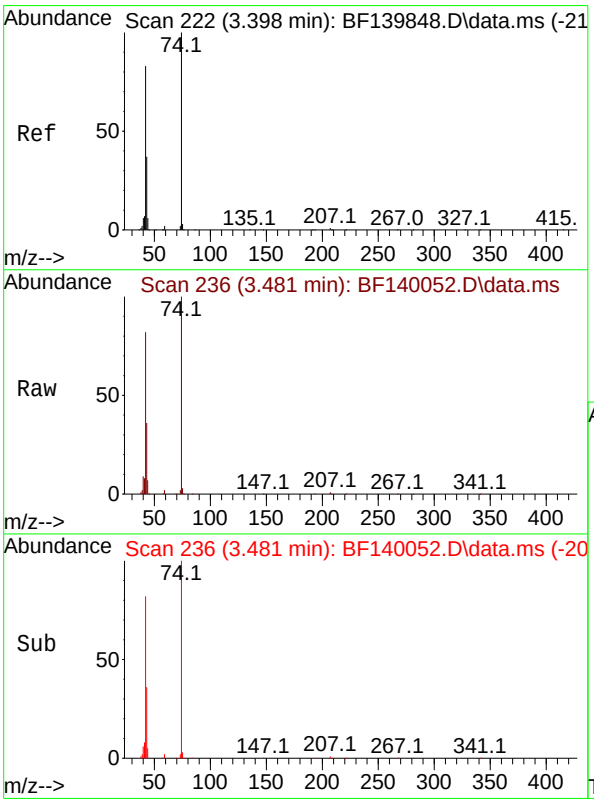
Ion	Ratio	Lower	Upper
79	100		
52	82.4	68.5	102.7
51	39.6	32.3	48.5



Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations
APPROVED

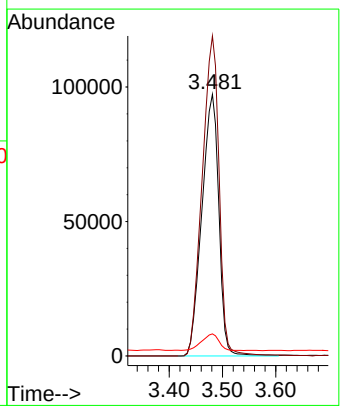
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

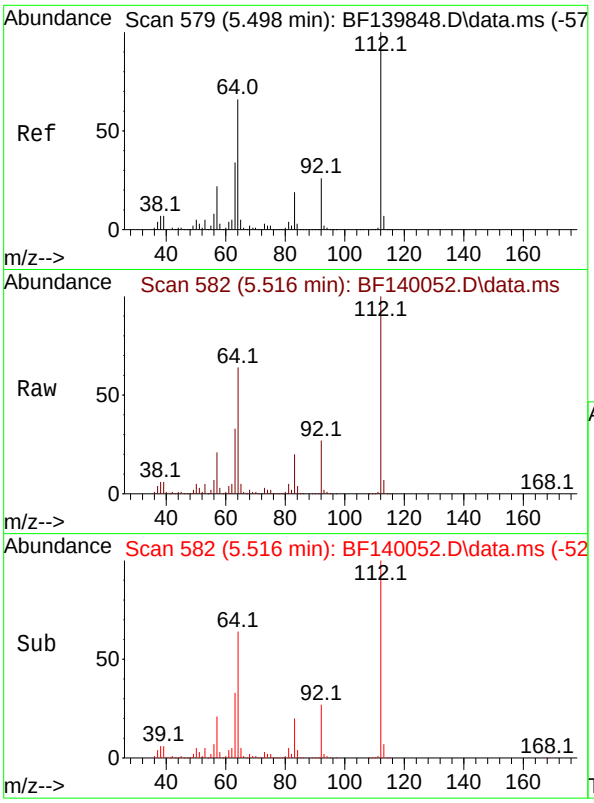


#4
n-Nitrosodimethylamine
Concen: 40.427 ng
RT: 3.481 min Scan# 236
Delta R.T. 0.083 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 42 Resp: 214789

Ion	Ratio	Lower	Upper
42	100		
74	122.3	96.2	144.4
44	8.5	6.2	9.2





#5
2-Fluorophenol
Concen: 115.343 ng
RT: 5.516 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

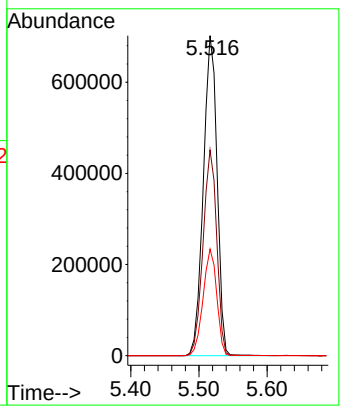
Tgt Ion:112 Resp: 98695

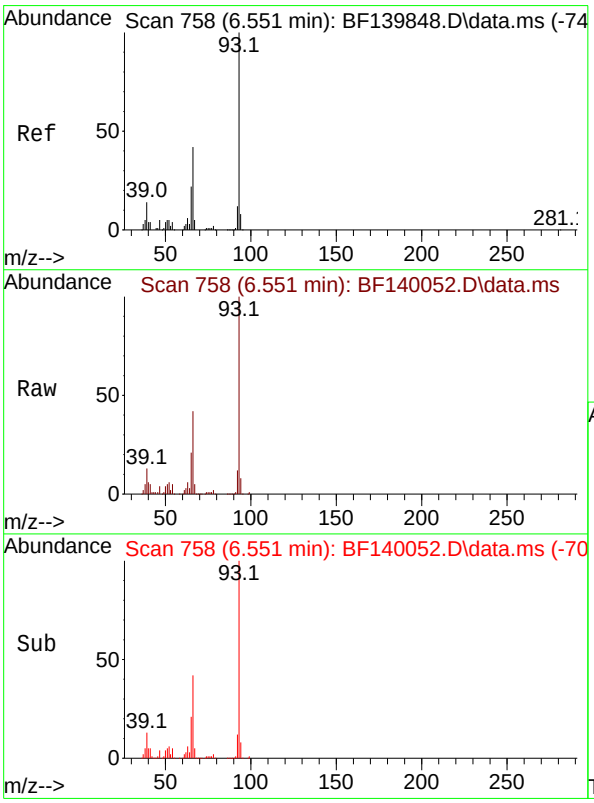
Ion	Ratio	Lower	Upper
112	100		
64	64.3	53.0	79.6
63	33.3	27.0	40.4

Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

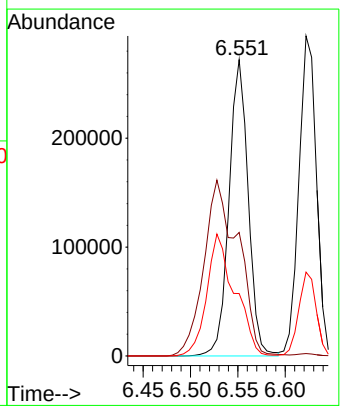


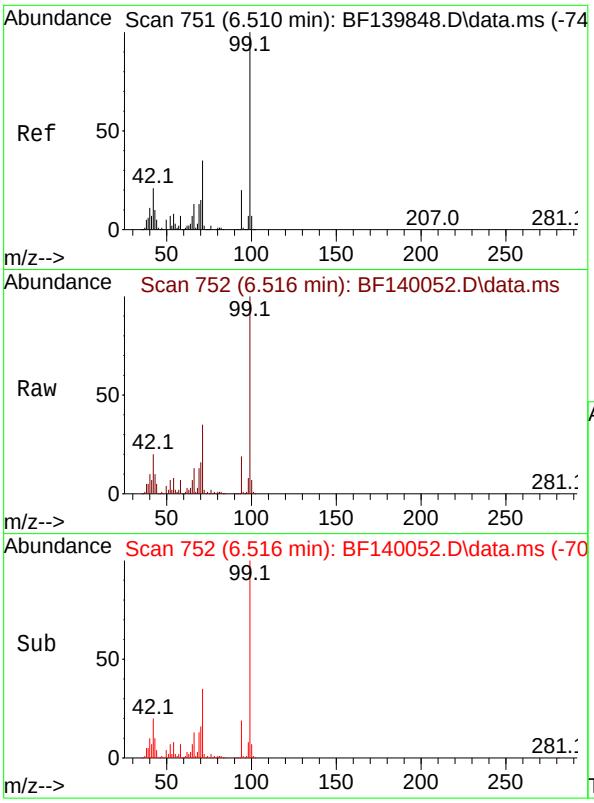


#6
Aniline
Concen: 37.145 ng
RT: 6.551 min Scan# 758
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 93 Resp: 383651

Ion	Ratio	Lower	Upper
93	100		
66	41.7	34.0	51.0
65	21.1	17.4	26.0

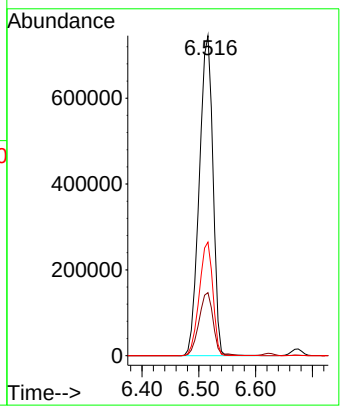




#7
Phenol-d6
Concen: 112.258 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 99 Resp: 124406

Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.7	25.1
71	35.5	27.7	41.5



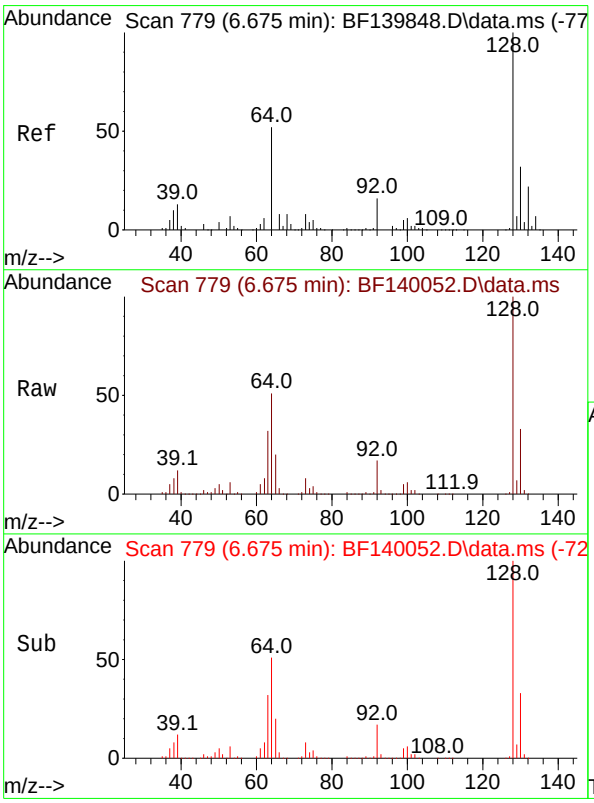
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

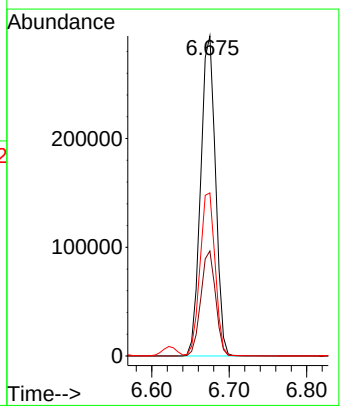
10/29/2024

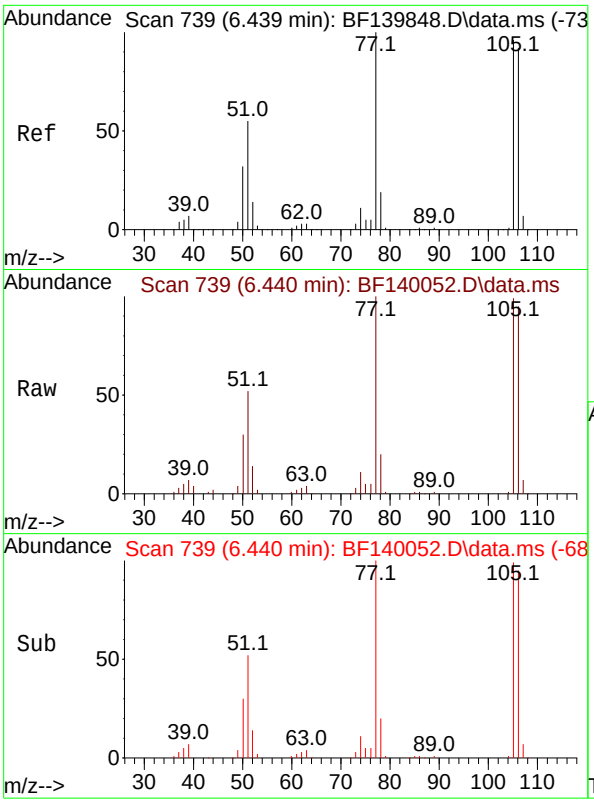


#8
2-Chlorophenol
Concen: 44.771 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:128 Resp: 391637

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.3	52.3
64	51.0	34.6	74.6

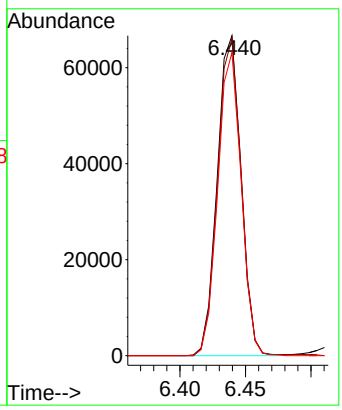




#9
Benzaldehyde
Concen: 13.468 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 77 Resp: 8396

Ion	Ratio	Lower	Upper
77	100		
105	99.2	75.5	115.5
106	94.7	71.7	111.7



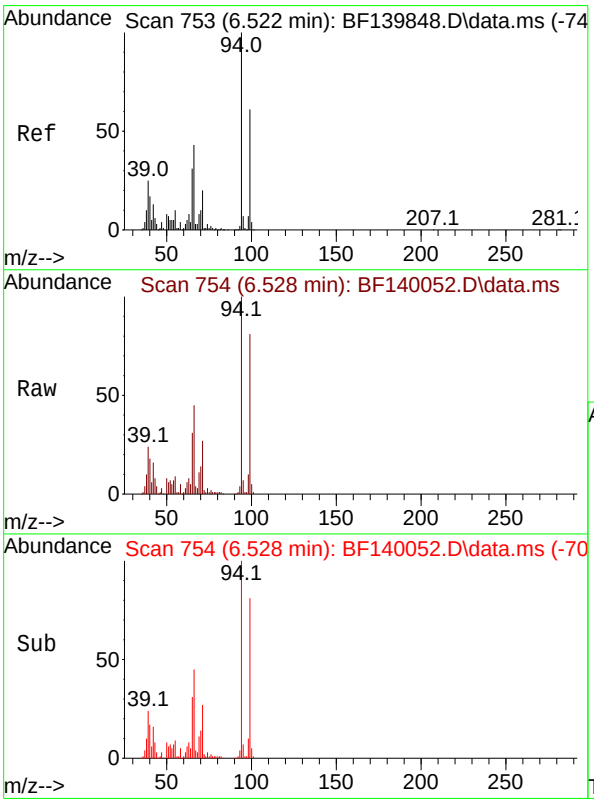
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

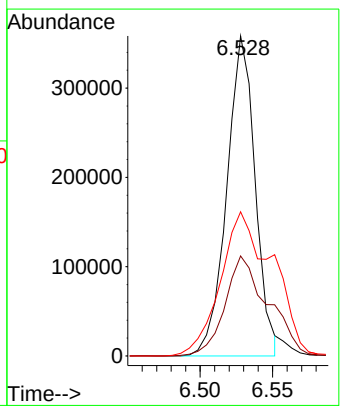
10/29/2024

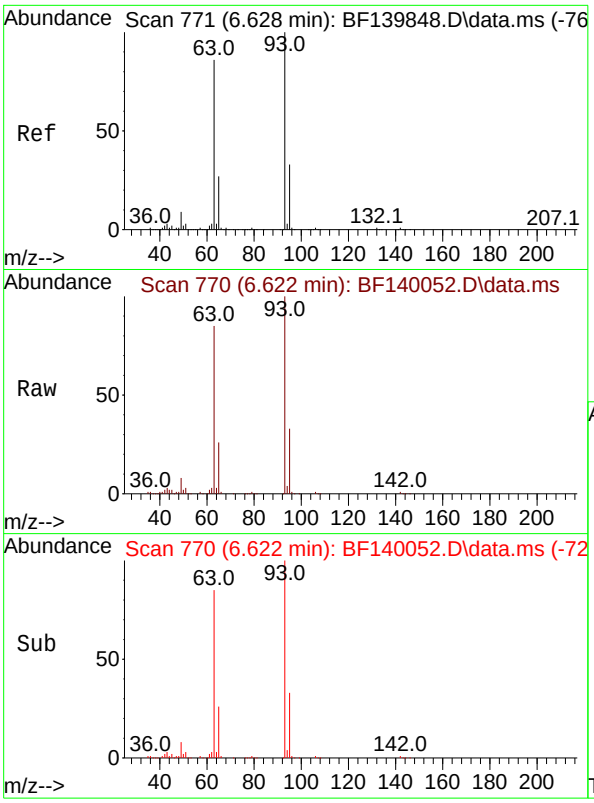


#10
Phenol
Concen: 42.823 ng m
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 94 Resp: 489257

Ion	Ratio	Lower	Upper
94	100		
65	31.3	11.1	51.1
66	45.1	22.7	62.7





#11
bis(2-Chloroethyl)ether
Concen: 42.783 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

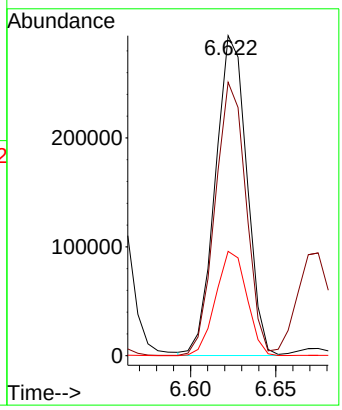
Tgt Ion: 93 Resp: 37780

Ion	Ratio	Lower	Upper
93	100		
63	85.4	65.0	105.0
95	32.6	12.4	52.4

Instrument :
BNA_F
ClientSampleId :
PB164401BS

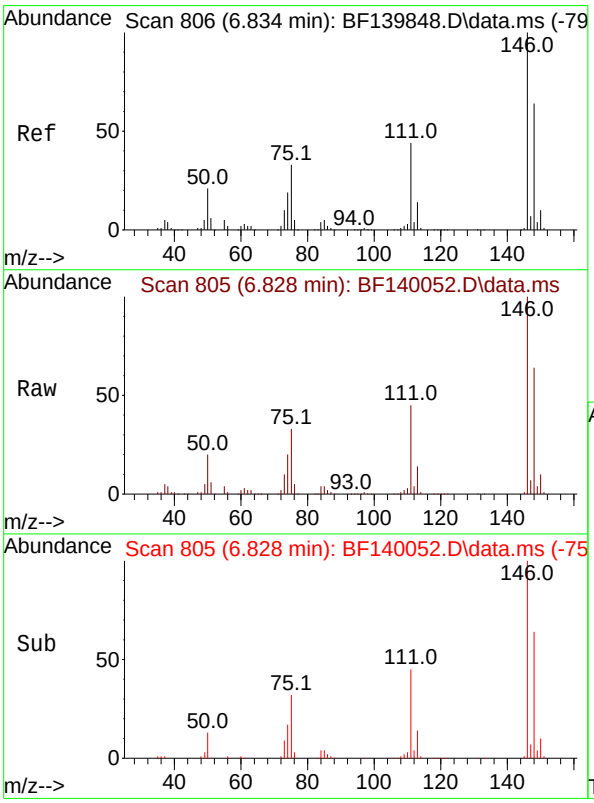
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

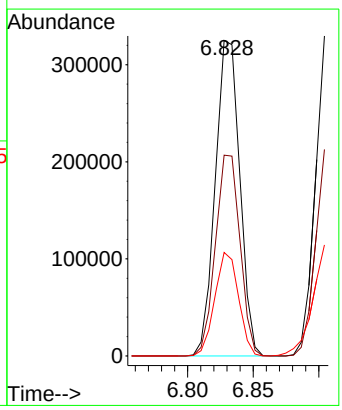
10/29/2024

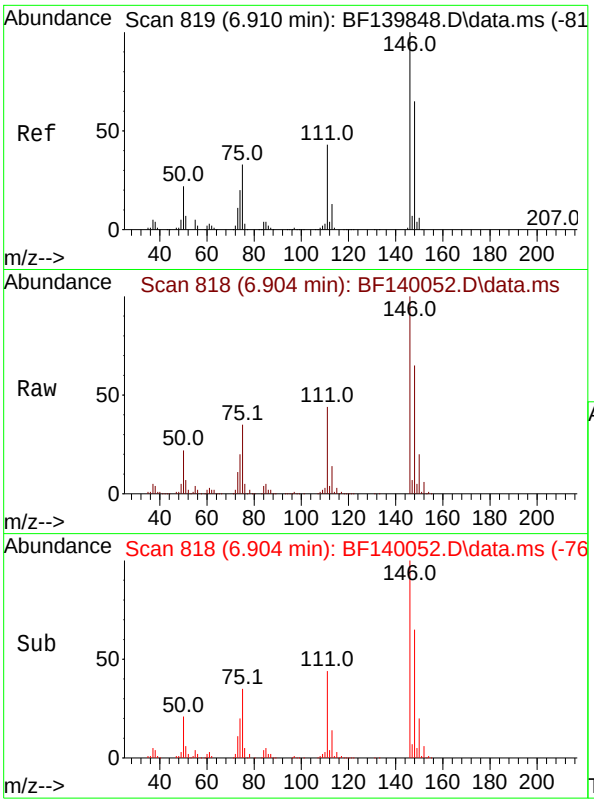


#12
1,3-Dichlorobenzene
Concen: 42.090 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:146 Resp: 422642

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.0	76.4
75	32.8	26.4	39.6





#13
1,4-Dichlorobenzene
Concen: 42.528 ng
RT: 6.904 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

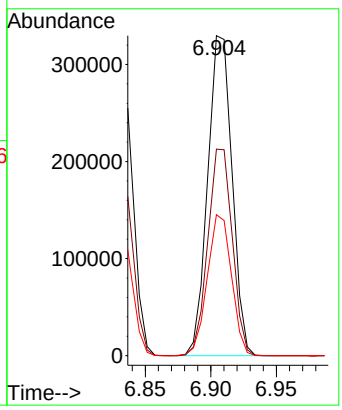
Tgt Ion:146 Resp: 42663(

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.8	77.8
111	44.0	34.6	51.8

Instrument :
BNA_F
ClientSampleId :
PB164401BS

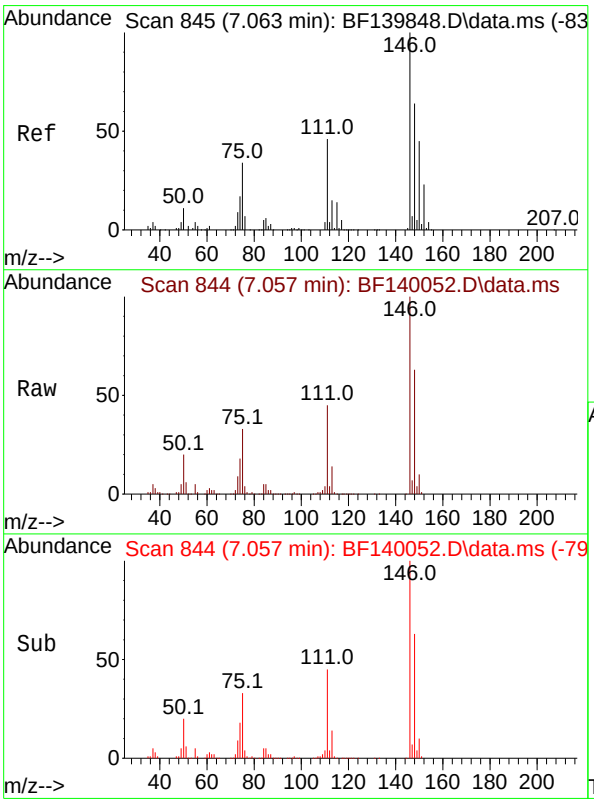
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

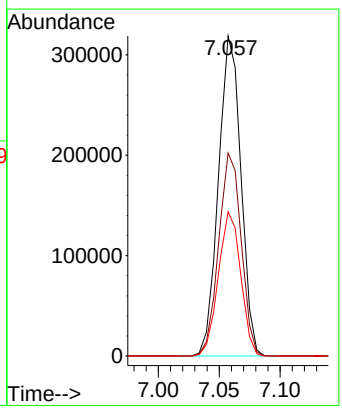
10/29/2024

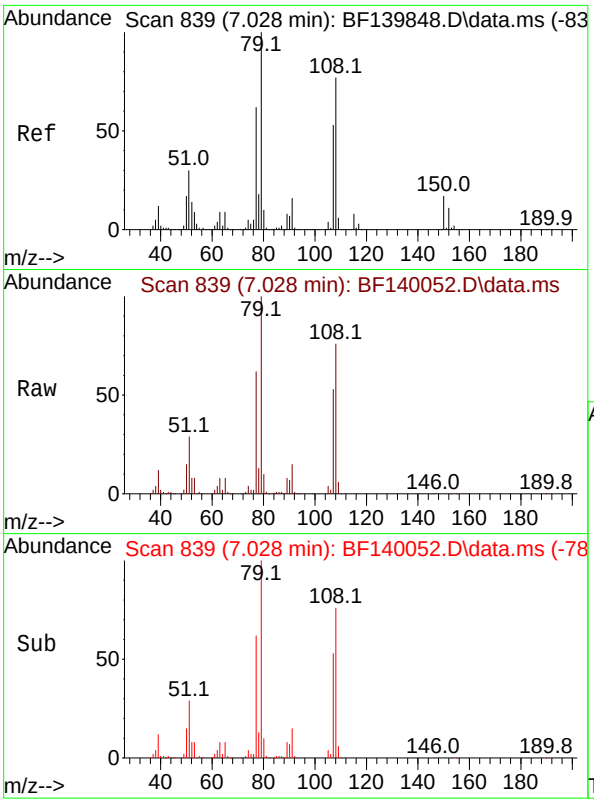


#14
1,2-Dichlorobenzene
Concen: 43.717 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:146 Resp: 409319

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.4	77.2
111	45.0	36.7	55.1





#15
Benzyl Alcohol
Concen: 44.322 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

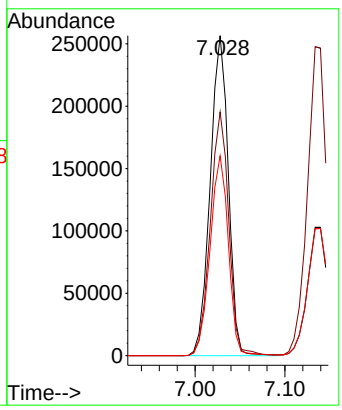
Tgt Ion: 79 Resp: 36030

Ion	Ratio	Lower	Upper
79	100		
108	76.1	61.4	92.0
77	62.5	49.9	74.9

Instrument :
BNA_F
ClientSampleId :
PB164401BS

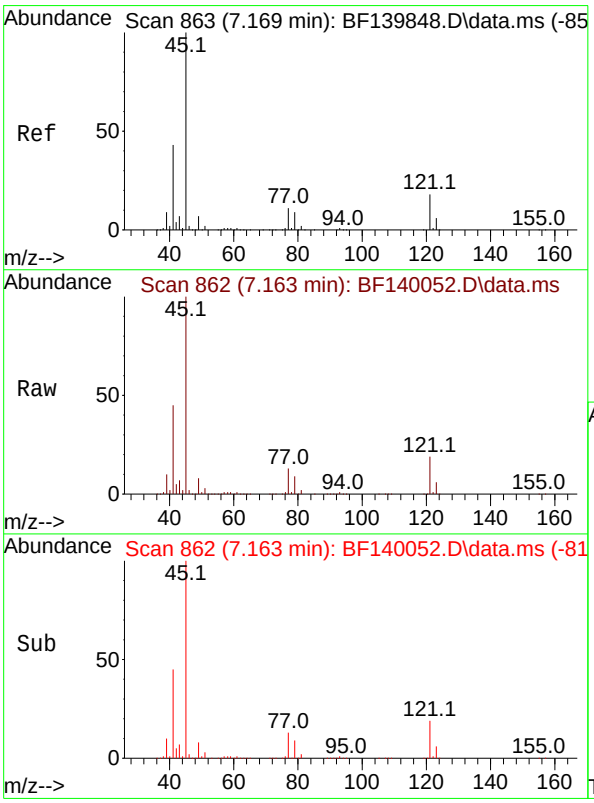
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

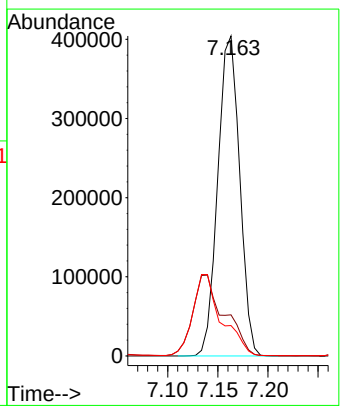
10/29/2024

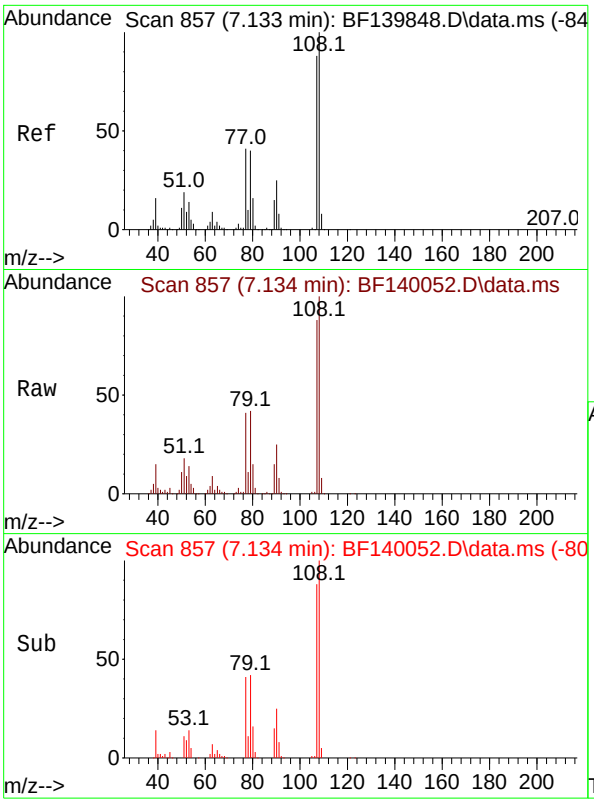


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.658 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 45 Resp: 612220

Ion	Ratio	Lower	Upper
45	100		
77	12.8	0.0	31.5
79	9.5	0.0	29.1

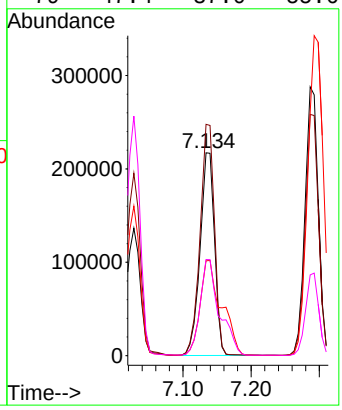




#17
2-Methylphenol
Concen: 42.935 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:107 Resp: 32025

Ion	Ratio	Lower	Upper
107	100		
108	114.0	91.3	136.9
77	46.8	37.1	55.7
79	47.4	37.0	55.6



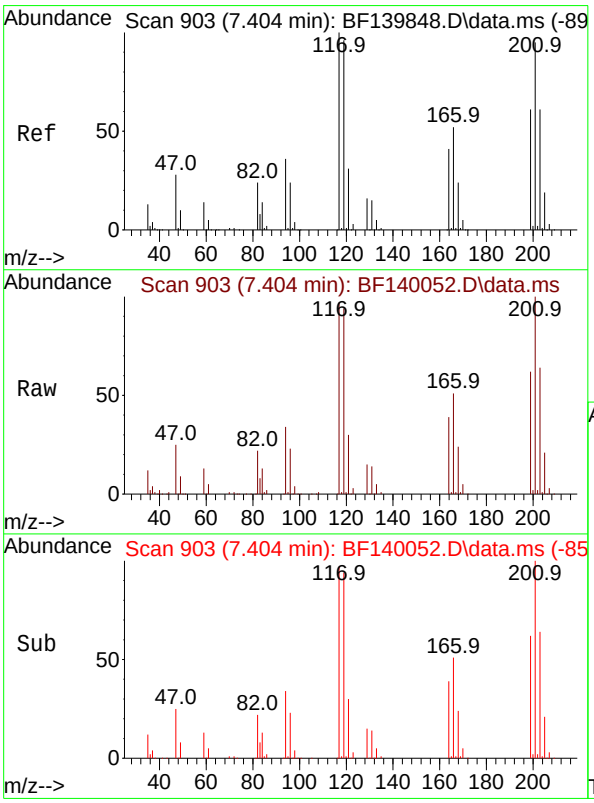
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

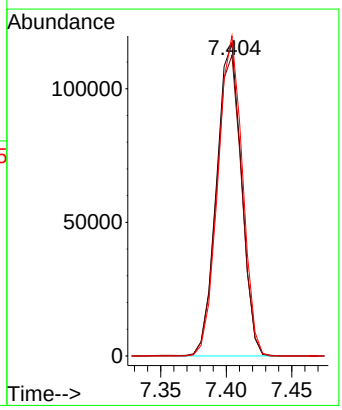
10/29/2024

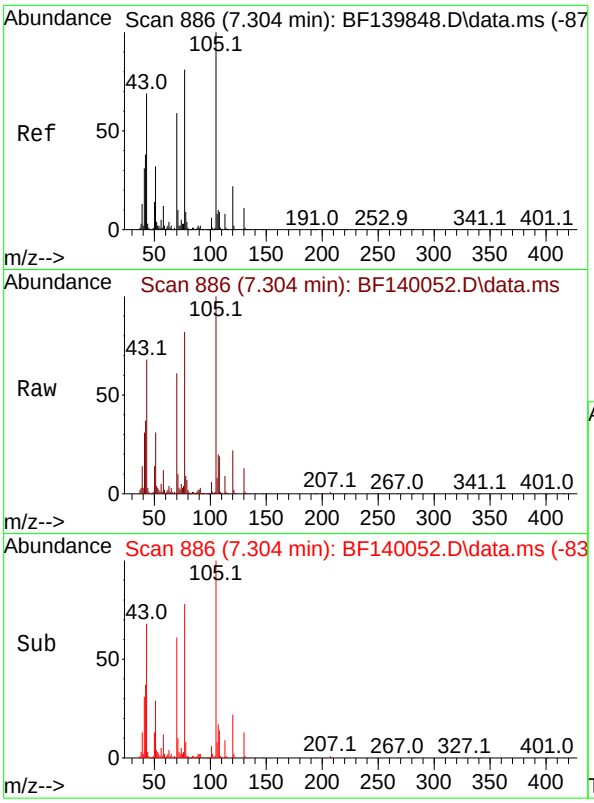


#18
Hexachloroethane
Concen: 43.106 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:117 Resp: 154207

Ion	Ratio	Lower	Upper
117	100		
119	96.3	77.0	115.4
201	102.6	76.2	114.4

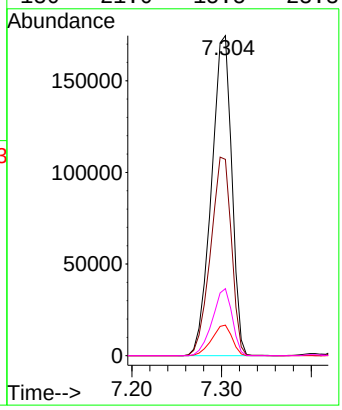




#19
n-Nitroso-di-n-propylamine
Concen: 40.789 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 70 Resp: 27415

Ion	Ratio	Lower	Upper
70	100		
42	61.4	51.5	77.3
101	9.6	7.5	11.3
130	21.0	15.5	23.3



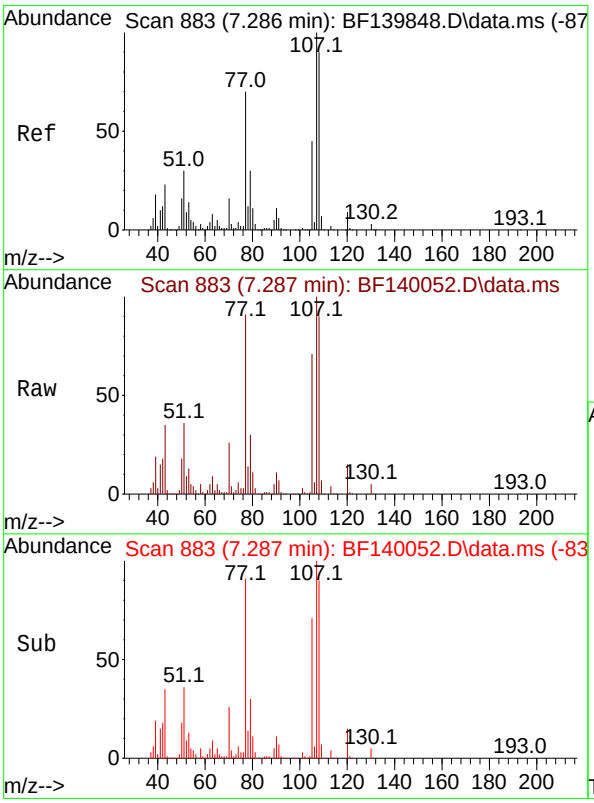
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

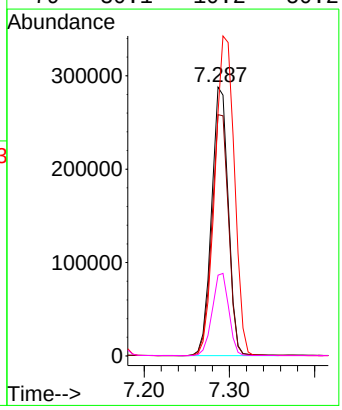
10/29/2024

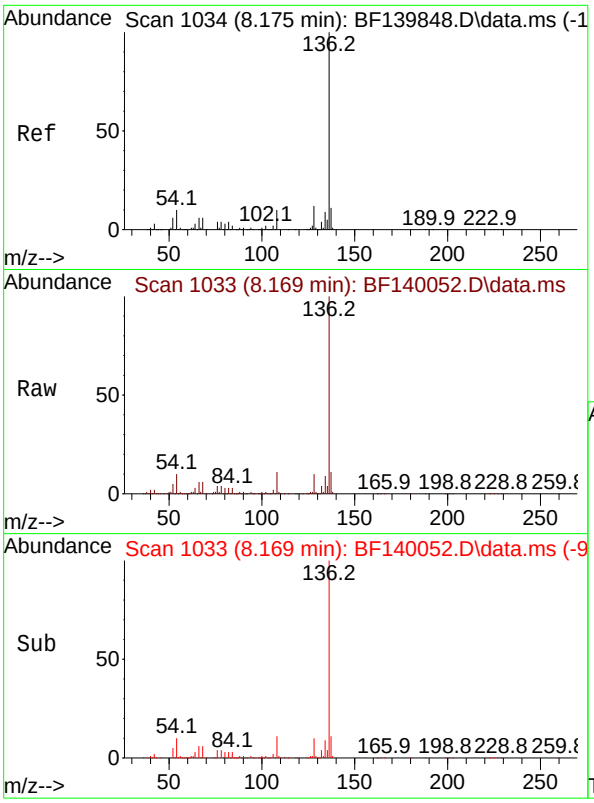


#20
3+4-Methylphenols
Concen: 40.978 ng
RT: 7.287 min Scan# 883
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:107 Resp: 390957

Ion	Ratio	Lower	Upper
107	100		
108	89.7	69.8	109.8
77	90.6	50.5	90.5#
79	30.1	10.2	50.2

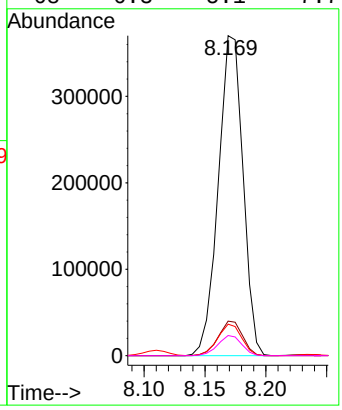




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:136 Resp: 52307

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	9.8	8.4	12.6
68	6.3	5.1	7.7



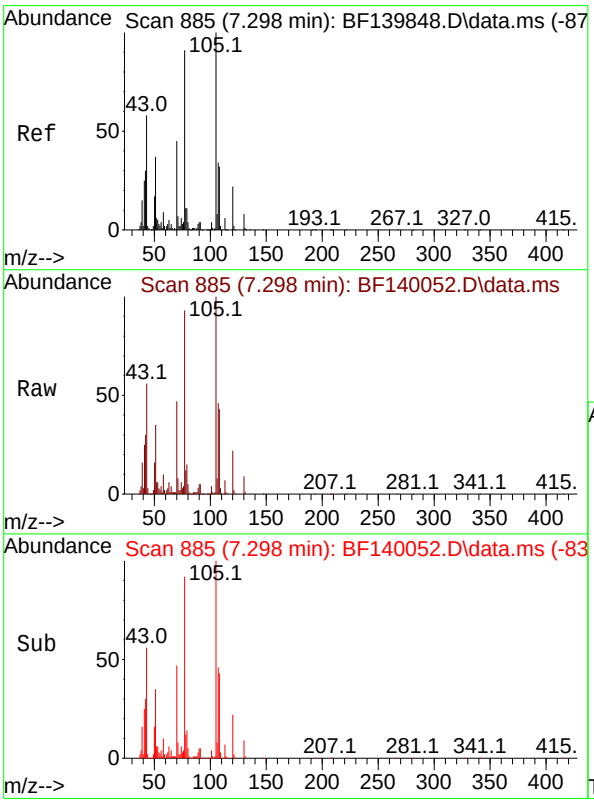
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

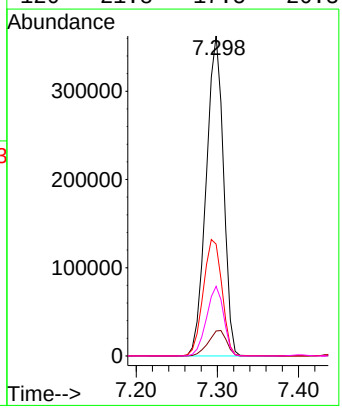
10/29/2024

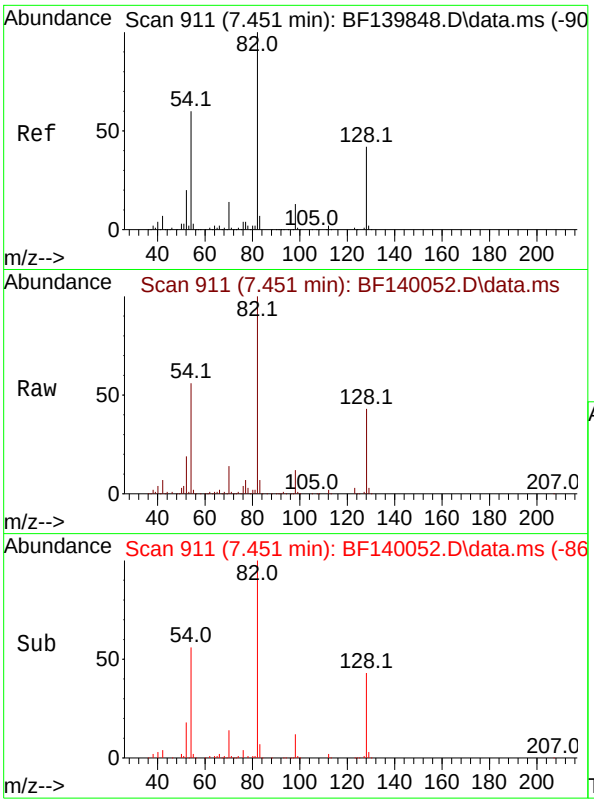


#22
Acetophenone
Concen: 41.819 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:105 Resp: 535776

Ion	Ratio	Lower	Upper
105	100		
71	7.8	5.9	8.9
51	35.0	29.4	44.2
120	21.8	17.5	26.3





#23
Nitrobenzene-d5
Concen: 85.732 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

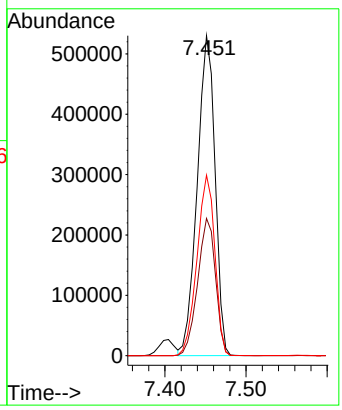
Tgt Ion: 82 Resp: 80912

Ion	Ratio	Lower	Upper
82	100		
128	42.9	33.4	50.0
54	56.4	47.8	71.8

Instrument :
BNA_F
ClientSampleId :
PB164401BS

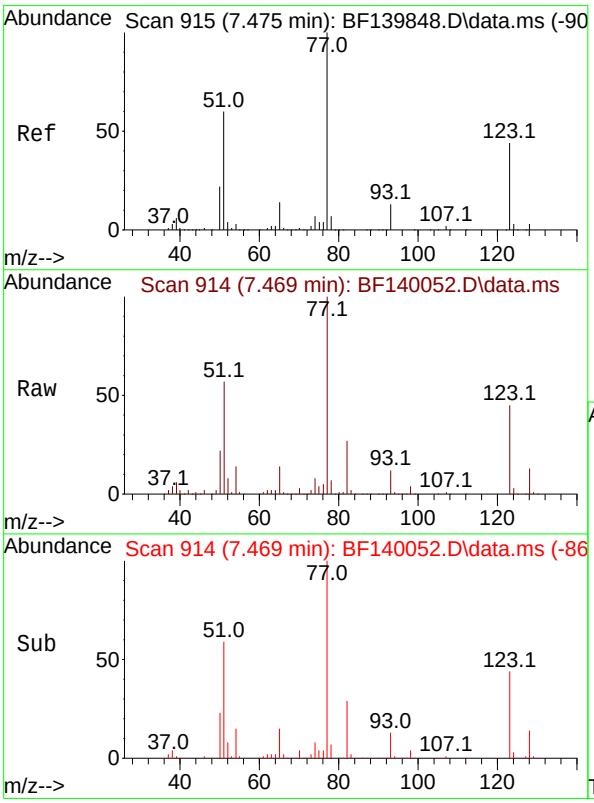
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

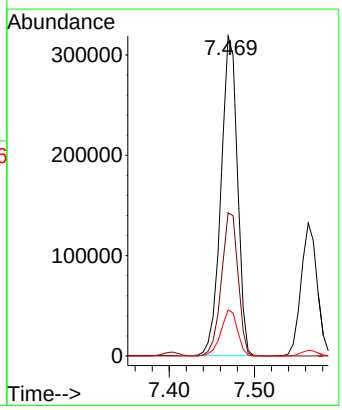
10/29/2024

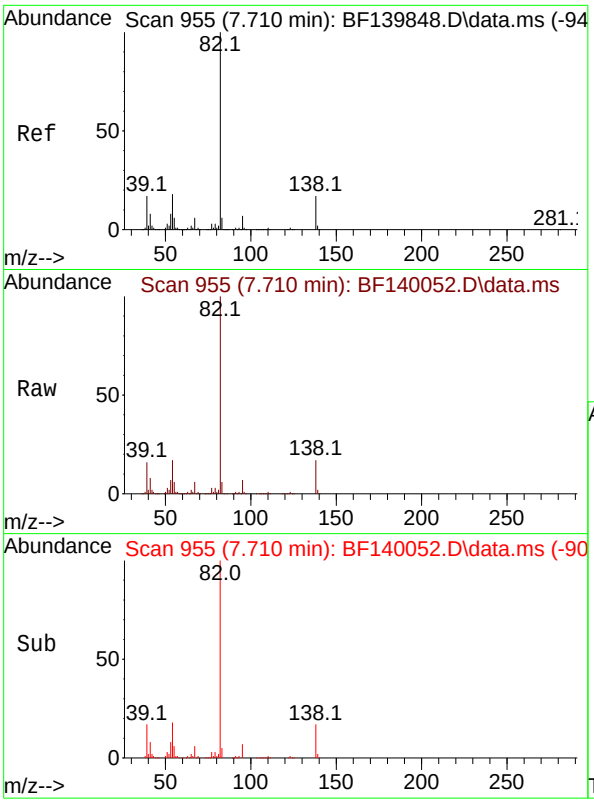


#24
Nitrobenzene
Concen: 41.317 ng
RT: 7.469 min Scan# 914
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 77 Resp: 427531

Ion	Ratio	Lower	Upper
77	100		
123	44.8	35.7	53.5
65	14.4	11.5	17.3





#25
Isophorone
Concen: 42.704 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

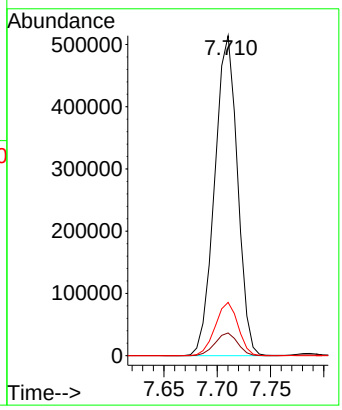
Tgt Ion: 82 Resp: 76494

Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.5	8.3
138	16.7	13.2	19.8

Instrument :
BNA_F
ClientSampleId :
PB164401BS

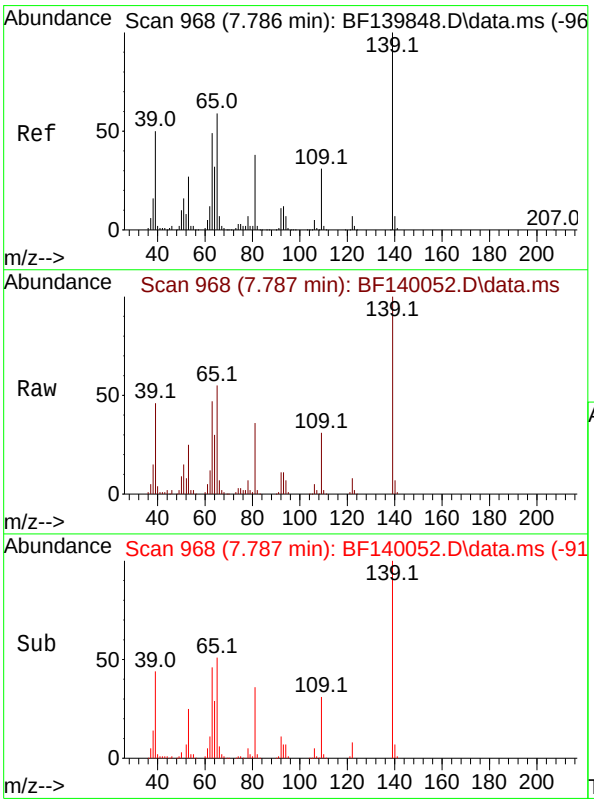
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

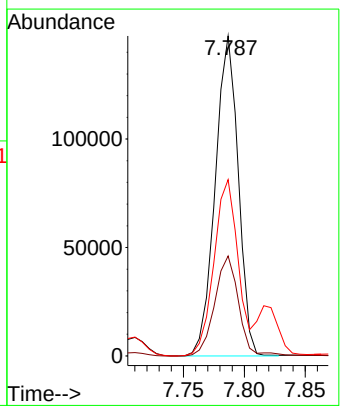
10/29/2024

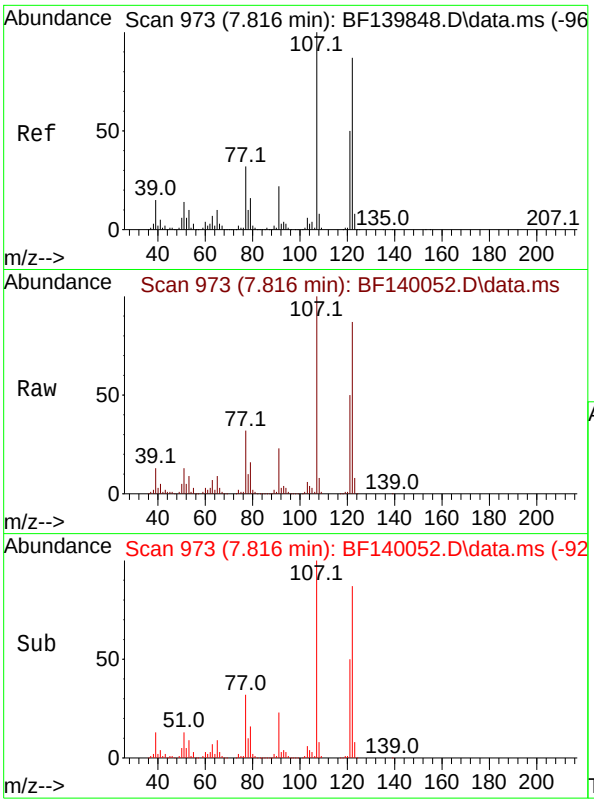


#26
2-Nitrophenol
Concen: 49.821 ng
RT: 7.787 min Scan# 968
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:139 Resp: 194486

Ion	Ratio	Lower	Upper
139	100		
109	31.2	25.1	37.7
65	55.1	47.5	71.3

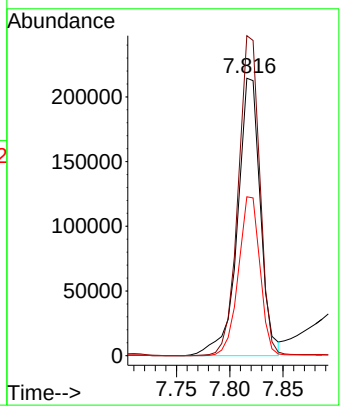




#27
2,4-Dimethylphenol
Concen: 49.284 ng
RT: 7.816 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:122 Resp: 32080

Ion	Ratio	Lower	Upper
122	100		
107	115.3	91.9	137.9
121	57.3	46.2	69.4



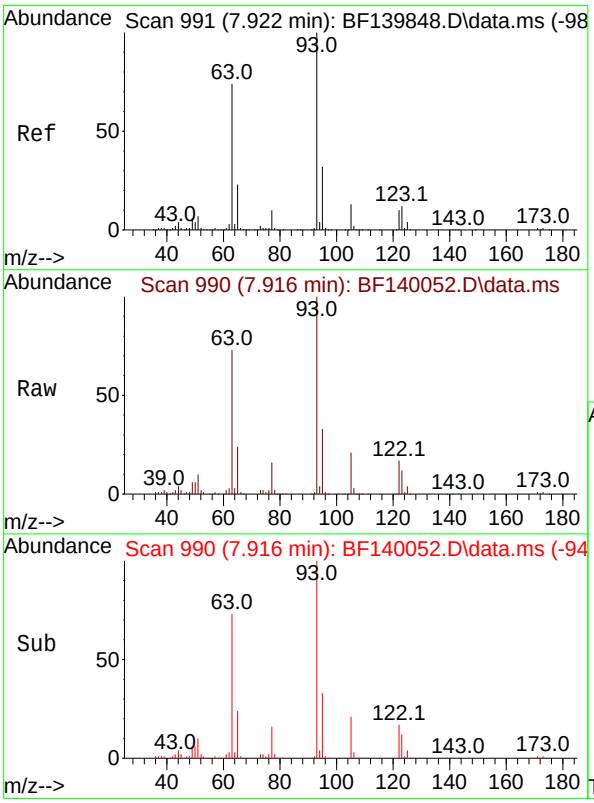
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

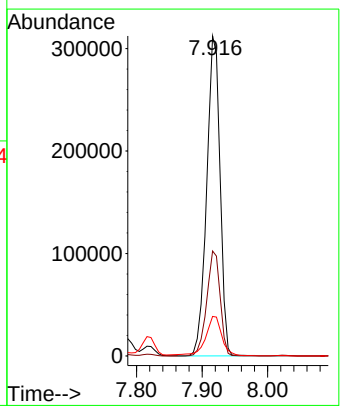
10/29/2024

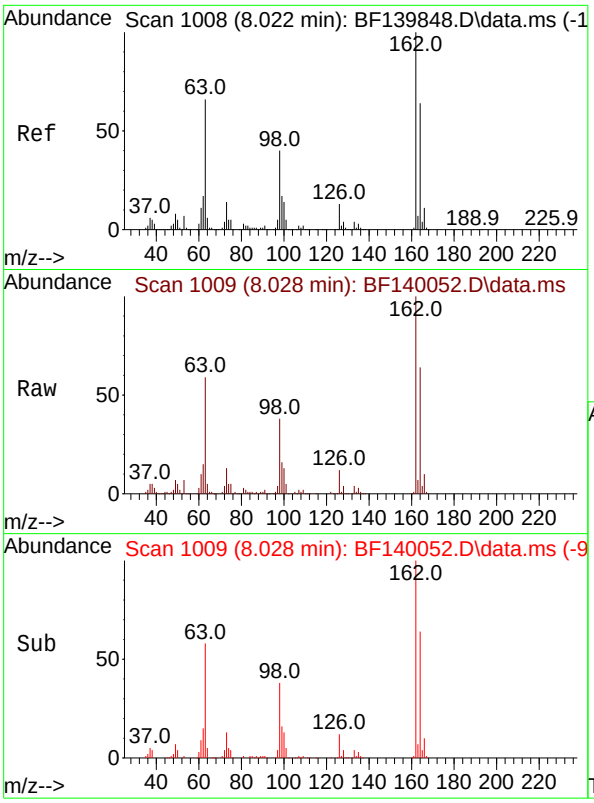


#28
bis(2-Chloroethoxy)methane
Concen: 40.755 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 93 Resp: 442314

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.0	39.0
123	12.3	9.8	14.8

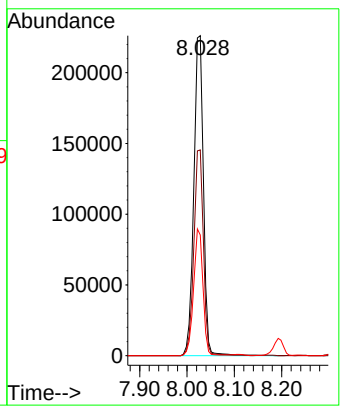




#29
2,4-Dichlorophenol
Concen: 43.007 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:162 Resp: 31885

Ion	Ratio	Lower	Upper
162	100		
164	64.3	43.9	83.9
98	37.7	19.9	59.9



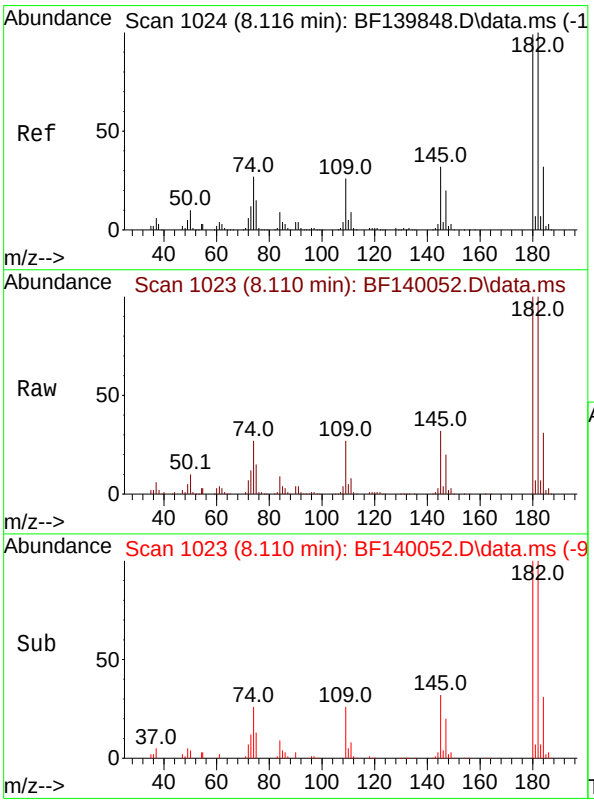
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

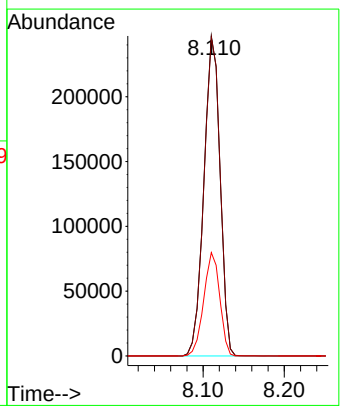
10/29/2024

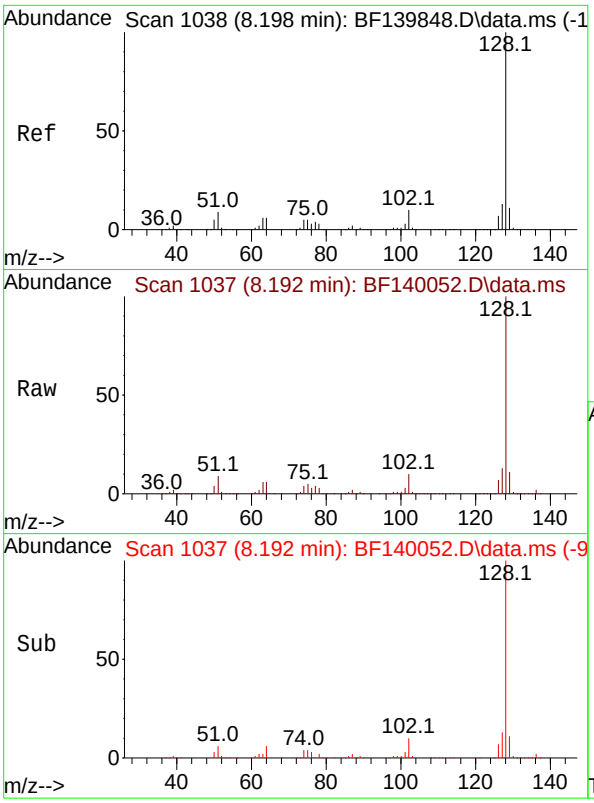


#30
1,2,4-Trichlorobenzene
Concen: 41.600 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:180 Resp: 341281

Ion	Ratio	Lower	Upper
180	100		
182	99.6	80.5	120.7
145	32.3	25.4	38.0





#31
Naphthalene
Concen: 42.420 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

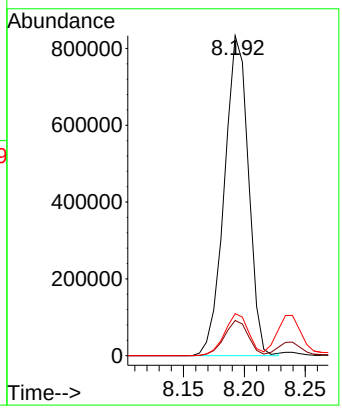
Tgt Ion:128 Resp: 114438

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.1	10.6	16.0

Instrument :
BNA_F
ClientSampleId :
PB164401BS

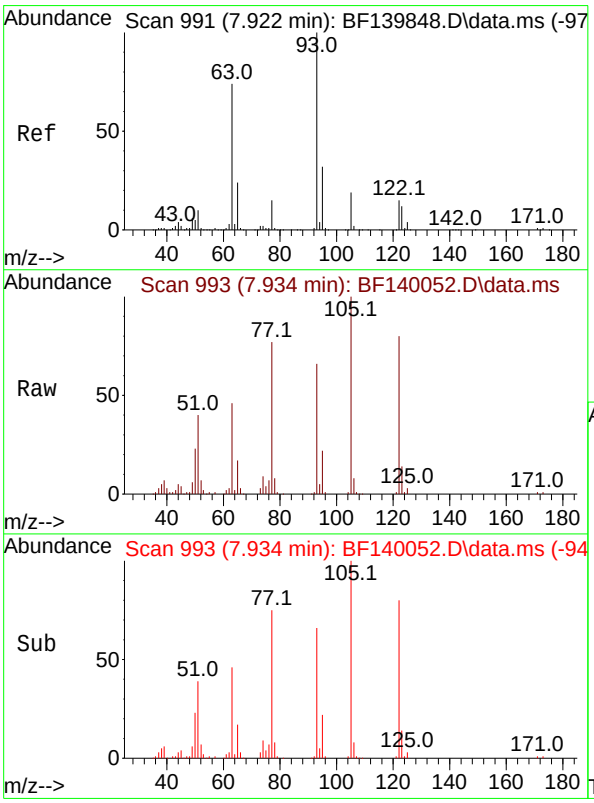
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

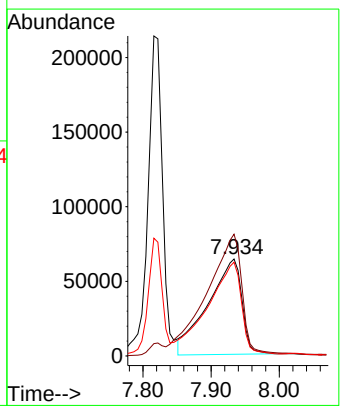
10/29/2024

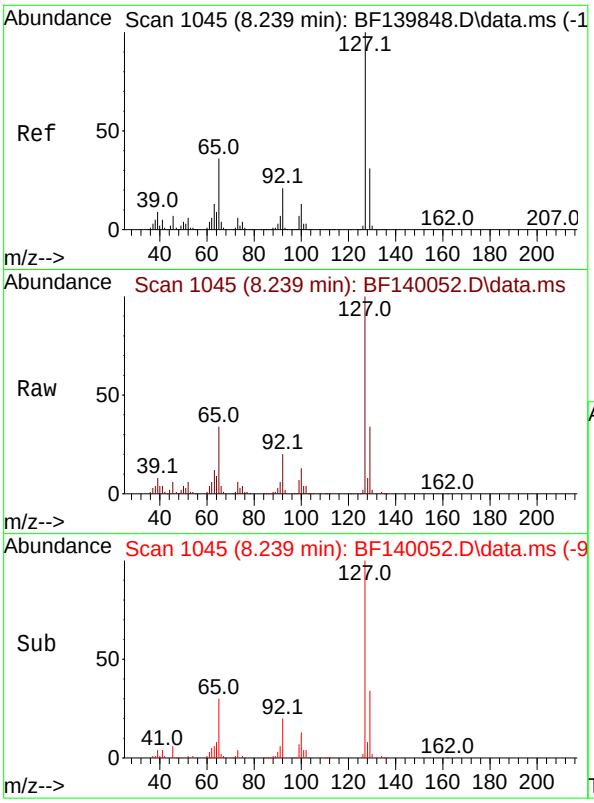


#32
Benzoic acid
Concen: 38.943 ng
RT: 7.934 min Scan# 993
Delta R.T. 0.012 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:122 Resp: 221089

Ion	Ratio	Lower	Upper
122	100		
105	125.5	107.6	147.6
77	96.7	80.2	120.2

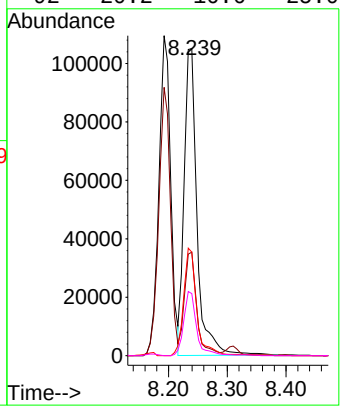




#33
4-Chloroaniline
Concen: 17.428 ng
RT: 8.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:127 Resp: 16031

Ion	Ratio	Lower	Upper
127	100		
129	33.7	25.4	38.2
65	33.7	28.4	42.6
92	20.2	16.6	25.0



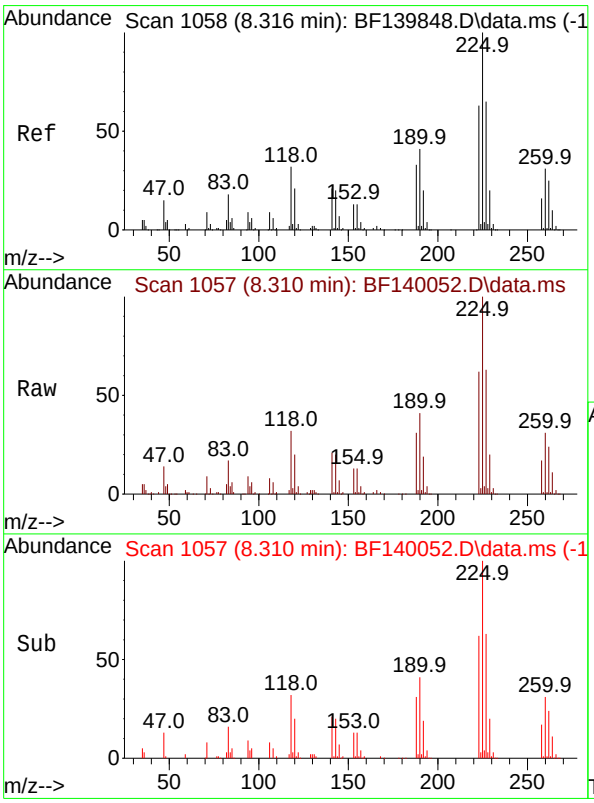
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

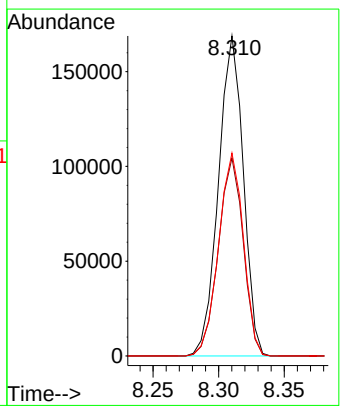
10/29/2024

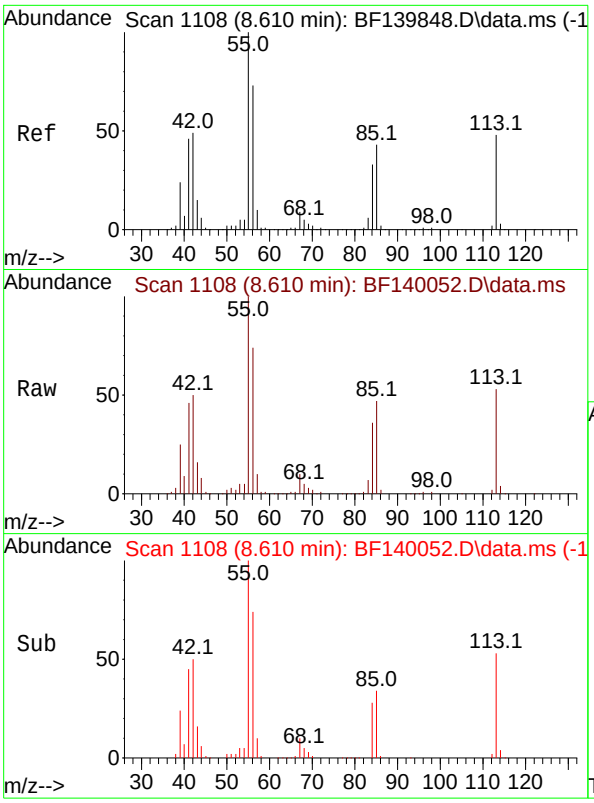


#34
Hexachlorobutadiene
Concen: 43.117 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:225 Resp: 222248

Ion	Ratio	Lower	Upper
225	100		
223	61.8	50.6	76.0
227	63.4	51.8	77.8





#35
Caprolactam
Concen: 44.422 ng m
RT: 8.610 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

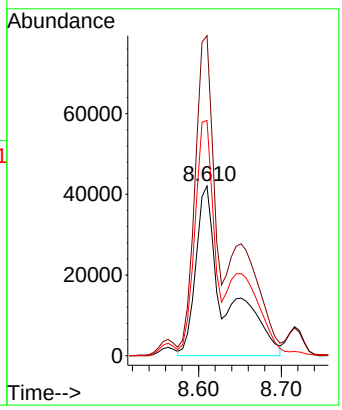
Tgt Ion:113 Resp: 10472

Ion	Ratio	Lower	Upper
113	100		
55	188.7	189.2	229.2#
56	138.7	132.5	172.5

Instrument :
BNA_F
ClientSampleId :
PB164401BS

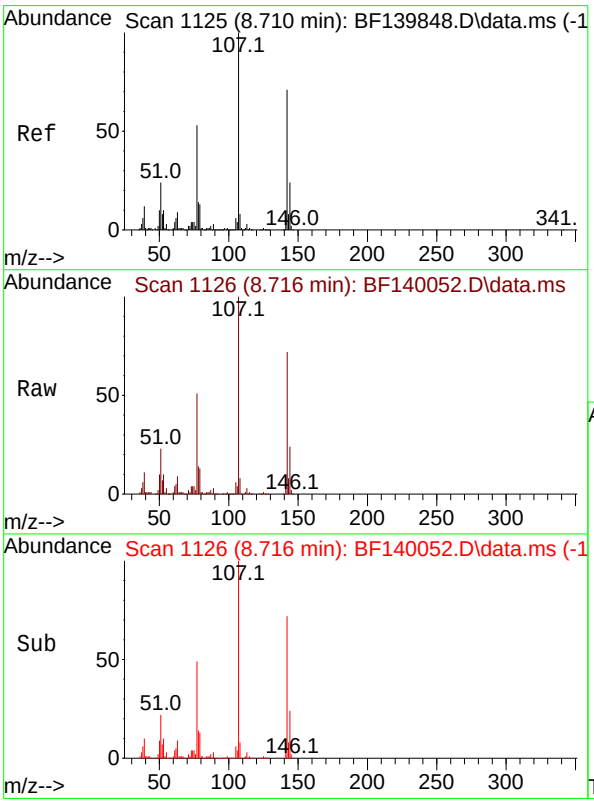
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

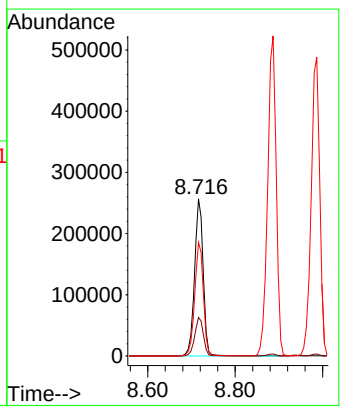
10/29/2024

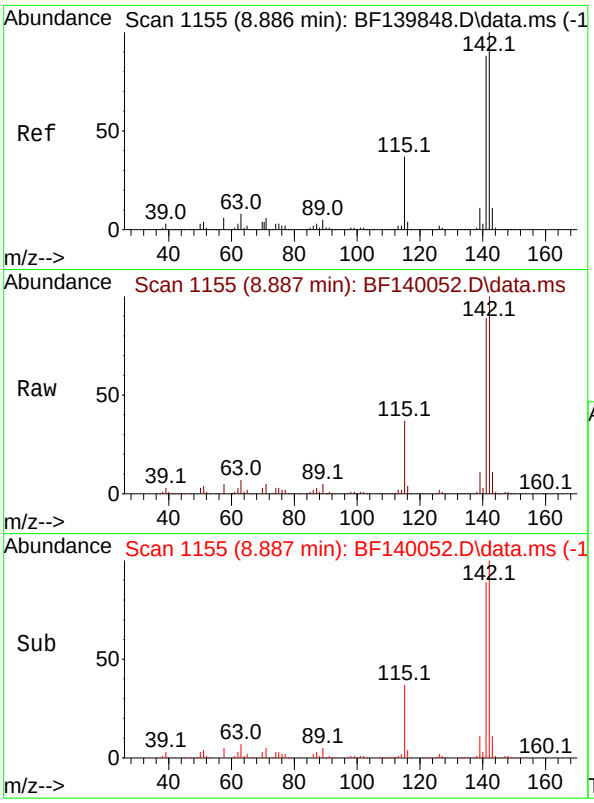


#36
4-Chloro-3-methylphenol
Concen: 42.951 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:107 Resp: 352609

Ion	Ratio	Lower	Upper
107	100		
144	24.4	19.1	28.7
142	72.4	57.2	85.8





#37
2-Methylnaphthalene
Concen: 42.867 ng
RT: 8.887 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

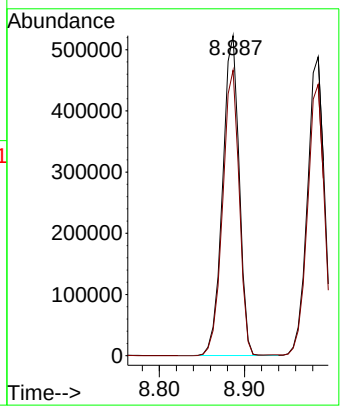
Tgt Ion:142 Resp: 70824

Ion	Ratio	Lower	Upper
142	100		
141	89.2	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
PB164401BS

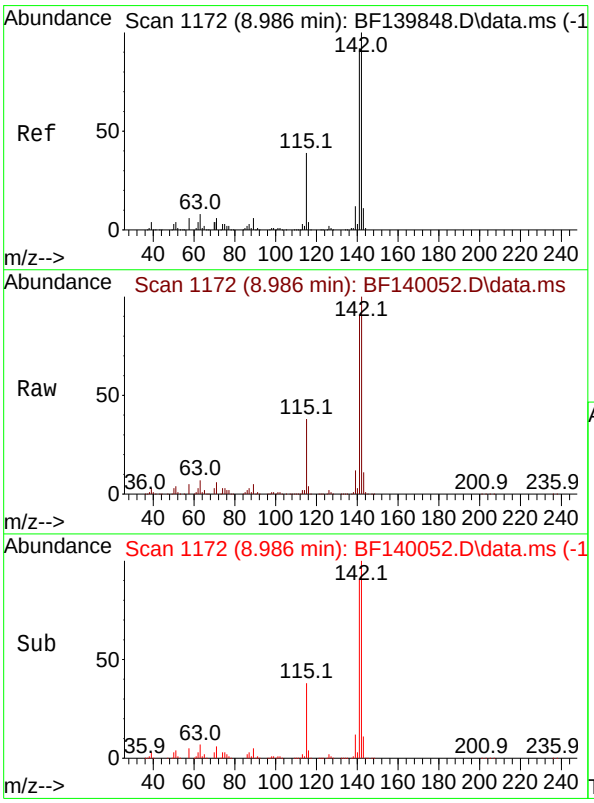
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

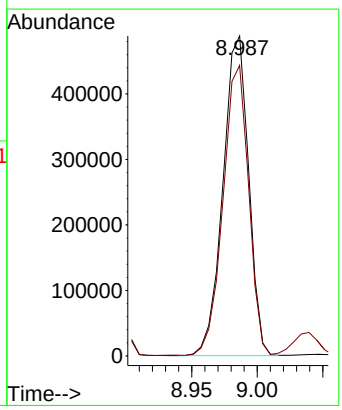
10/29/2024

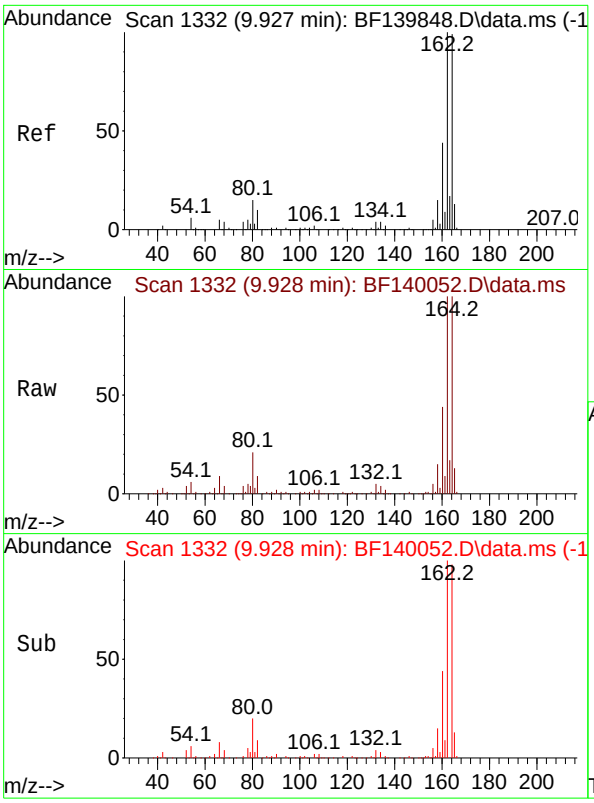


#38
1-Methylnaphthalene
Concen: 41.002 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:142 Resp: 664636

Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.5	110.3

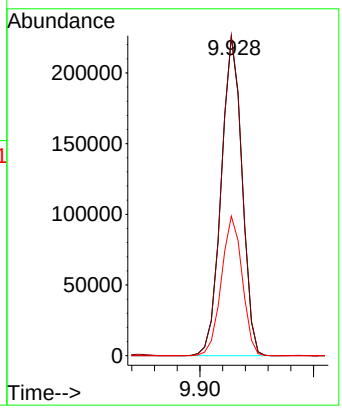




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:164 Resp: 28654

Ion	Ratio	Lower	Upper
164	100		
162	100.4	81.0	121.4
160	43.8	35.4	53.0



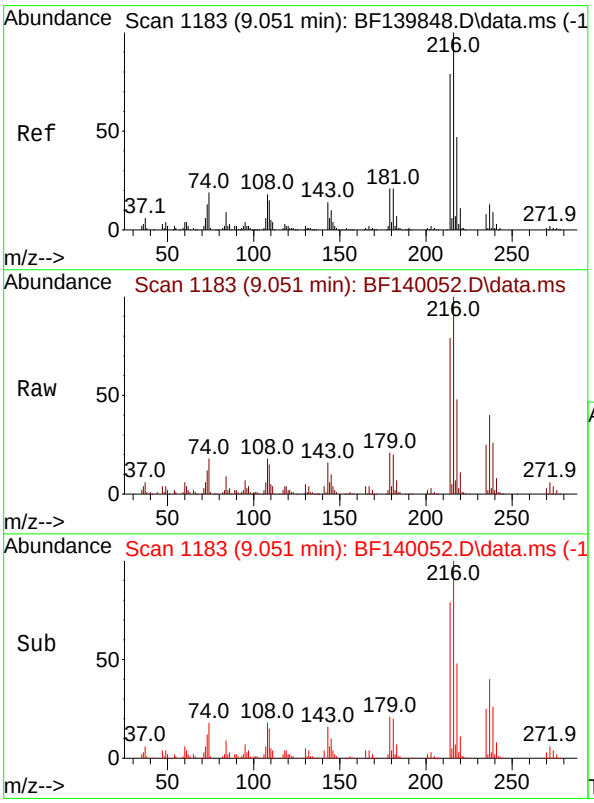
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

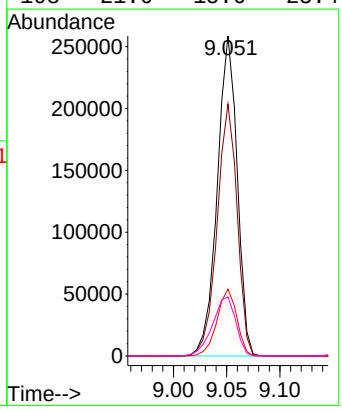
10/29/2024

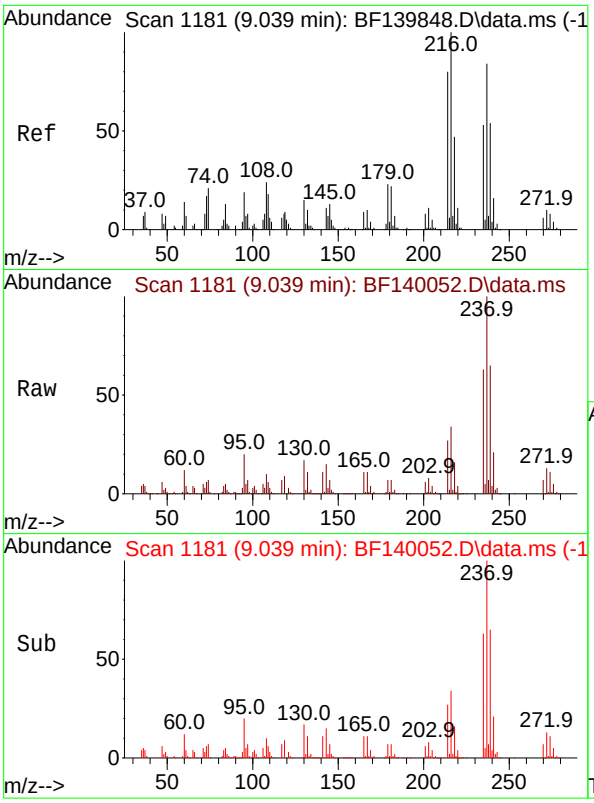


#40
1,2,4,5-Tetrachlorobenzene
Concen: 43.529 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:216 Resp: 336499

Ion	Ratio	Lower	Upper
216	100		
214	78.8	63.4	95.0
179	20.8	17.2	25.8
108	21.6	15.6	23.4





#41
Hexachlorocyclopentadiene
Concen: 163.391 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

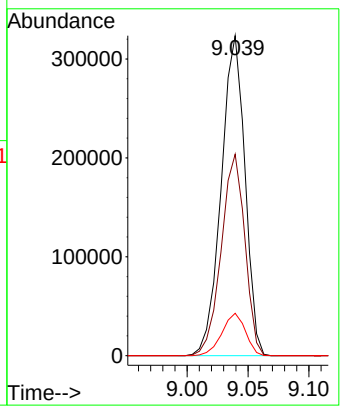
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Tgt Ion:237 Resp: 43949

Ion	Ratio	Lower	Upper
237	100		
235	62.9	42.9	82.9
272	13.3	0.0	32.3

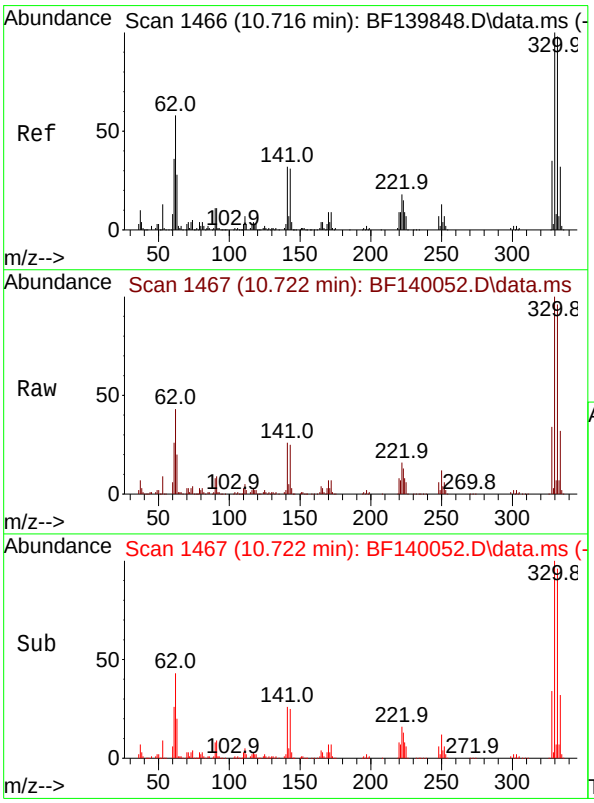
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

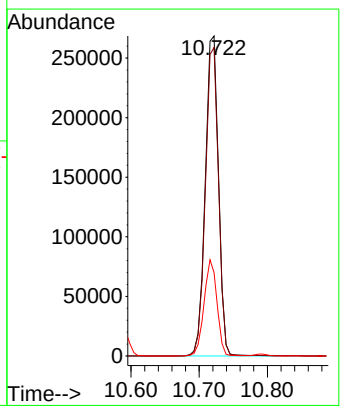
10/29/2024

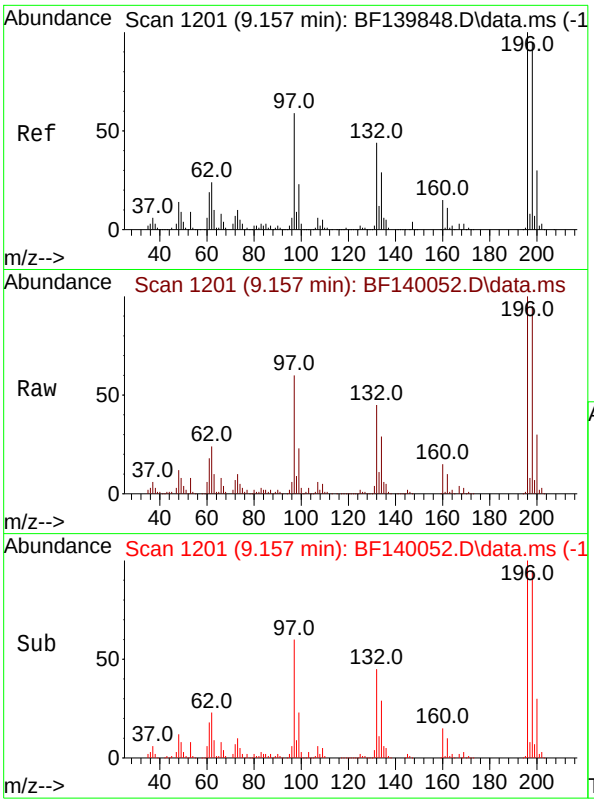


#42
2,4,6-Tribromophenol
Concen: 135.351 ng
RT: 10.722 min Scan# 1467
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:330 Resp: 362775

Ion	Ratio	Lower	Upper
330	100		
332	96.0	78.1	117.1
141	29.4	26.6	39.8





#43
2,4,6-Trichlorophenol
Concen: 44.850 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

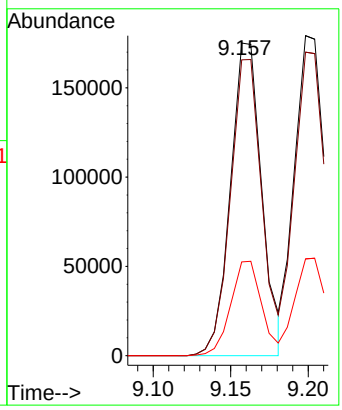
Tgt Ion:196 Resp: 24547

Ion	Ratio	Lower	Upper
196	100		
198	94.7	76.2	114.2
200	30.0	24.0	36.0

Instrument :
BNA_F
ClientSampleId :
PB164401BS

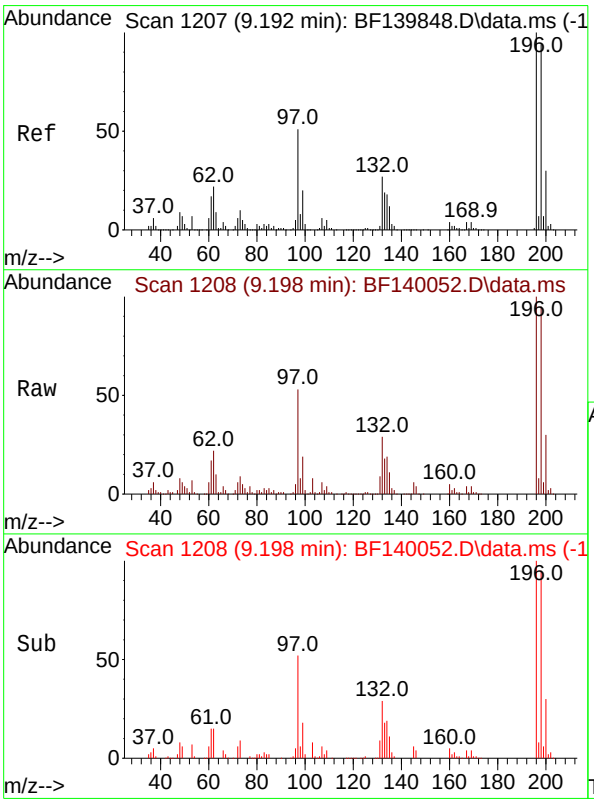
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

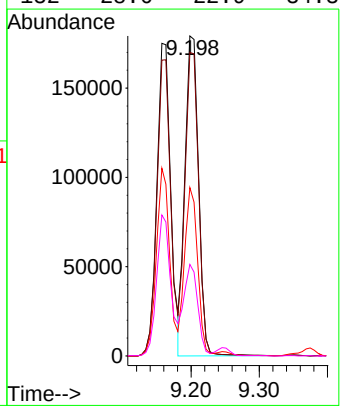
10/29/2024

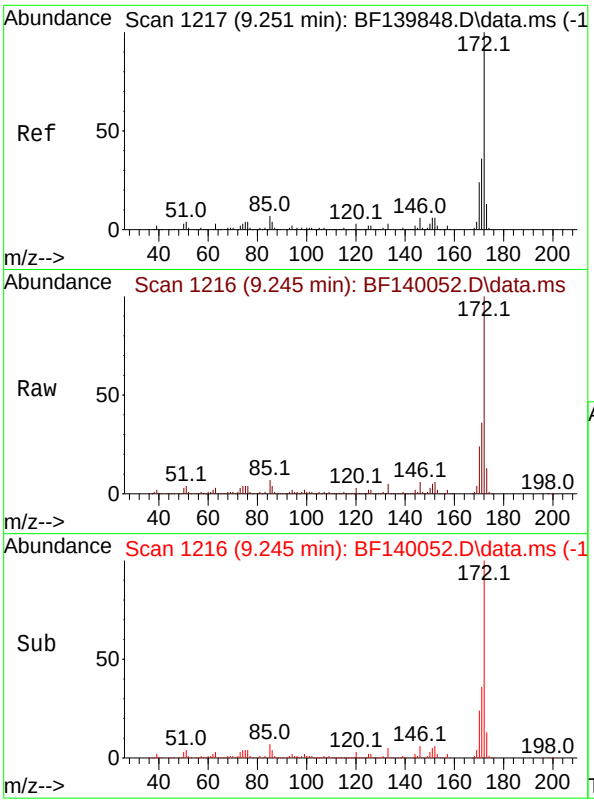


#44
2,4,5-Trichlorophenol
Concen: 43.845 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:196 Resp: 247584

Ion	Ratio	Lower	Upper
196	100		
198	94.9	75.8	113.6
97	52.6	41.8	62.6
132	28.6	22.9	34.3

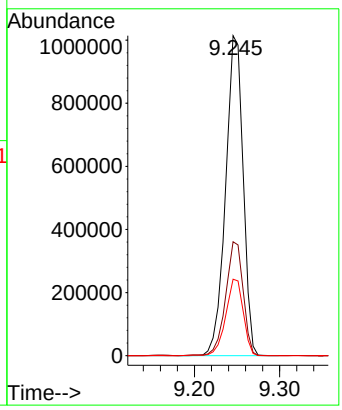




#45
2-Fluorobiphenyl
Concen: 83.853 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:172 Resp: 145384

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	23.9	19.1	28.7



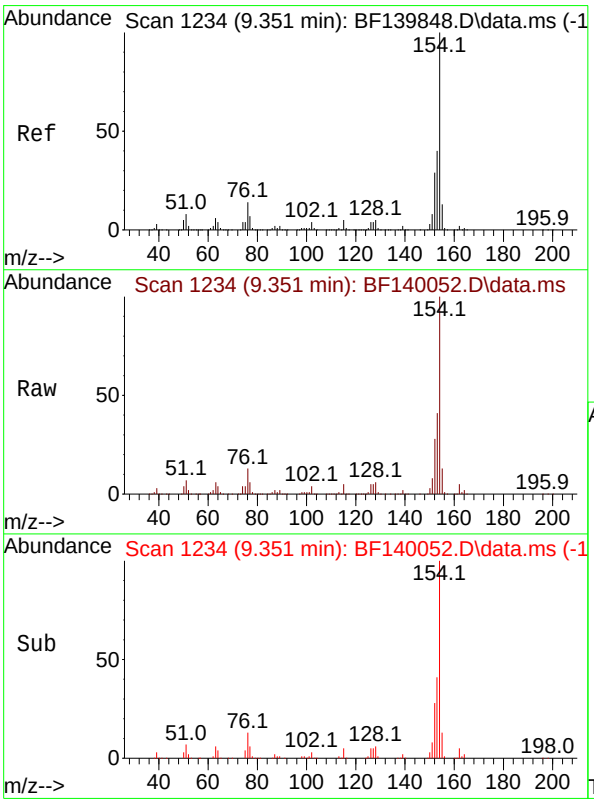
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

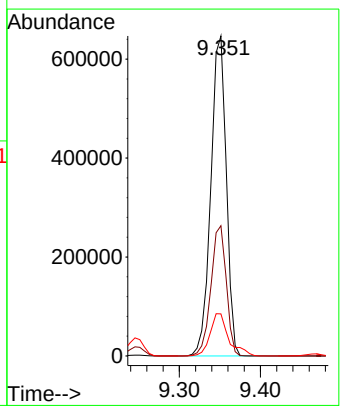
10/29/2024

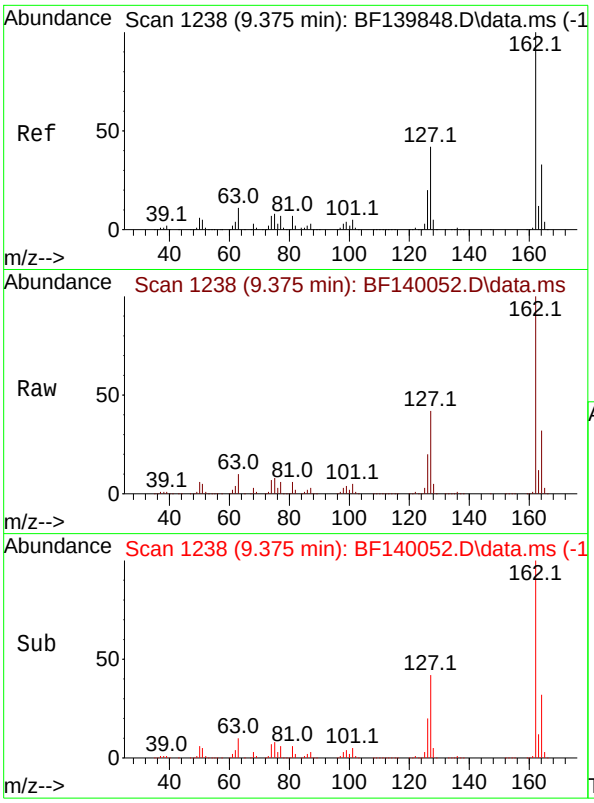


#46
1,1'-Biphenyl
Concen: 42.840 ng
RT: 9.351 min Scan# 1234
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:154 Resp: 854568

Ion	Ratio	Lower	Upper
154	100		
153	40.7	20.3	60.3
76	13.1	0.0	33.9

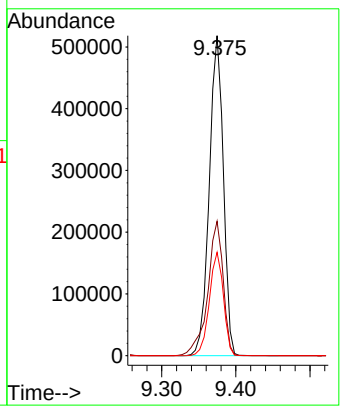




#47
2-Chloronaphthalene
Concen: 42.568 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:162 Resp: 68390

Ion	Ratio	Lower	Upper
162	100		
127	42.0	33.8	50.6
164	32.3	26.6	39.8



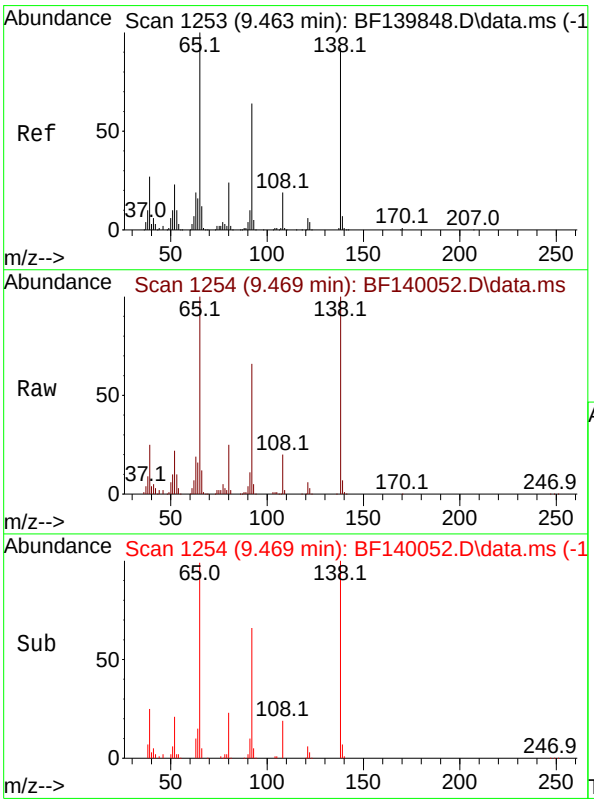
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

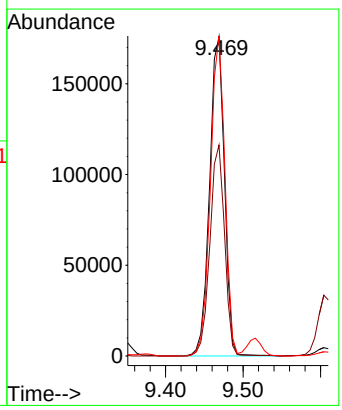
10/29/2024

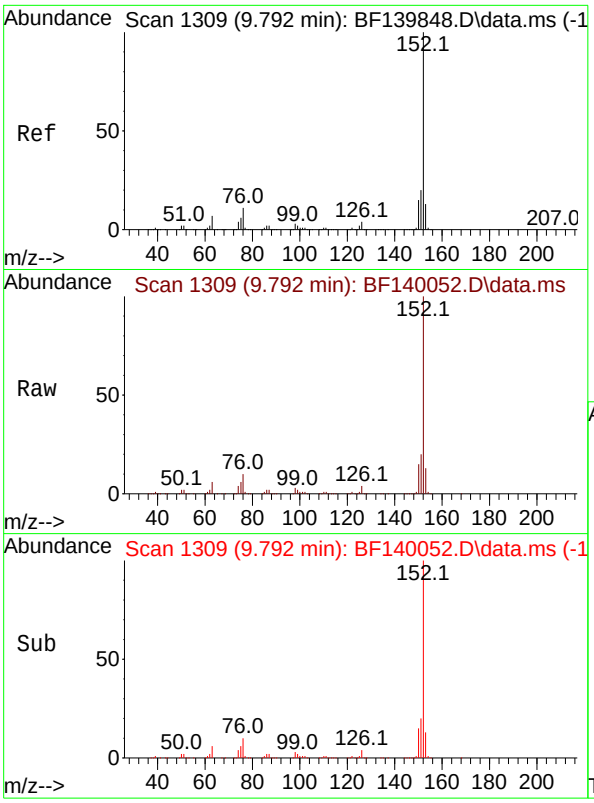


#48
2-Nitroaniline
Concen: 47.690 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 65 Resp: 234337

Ion	Ratio	Lower	Upper
65	100		
92	66.0	50.9	76.3
138	100.2	73.4	110.0





#49
Acenaphthylene
Concen: 45.751 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

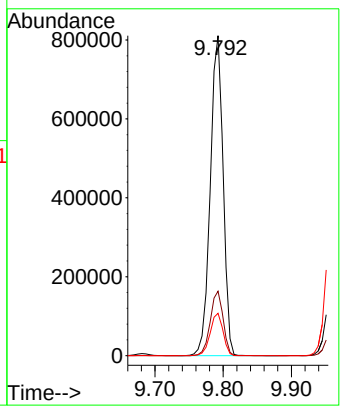
Tgt Ion:152 Resp: 106266

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.9	23.9
153	13.3	10.7	16.1

Instrument :
BNA_F
ClientSampleId :
PB164401BS

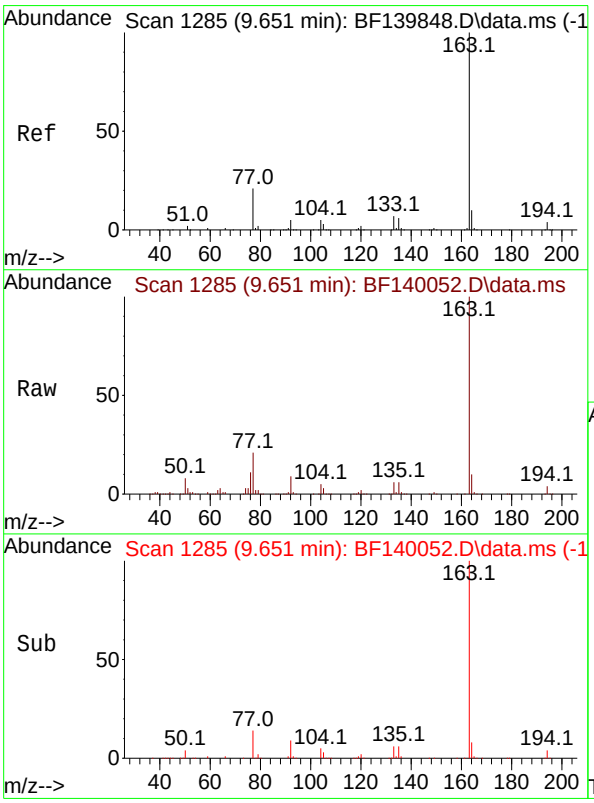
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

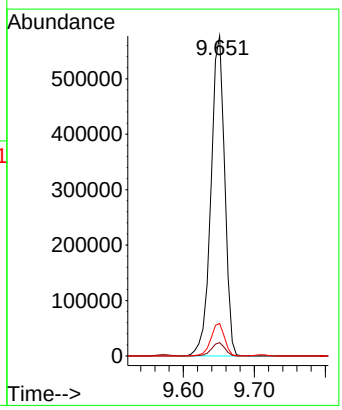
10/29/2024

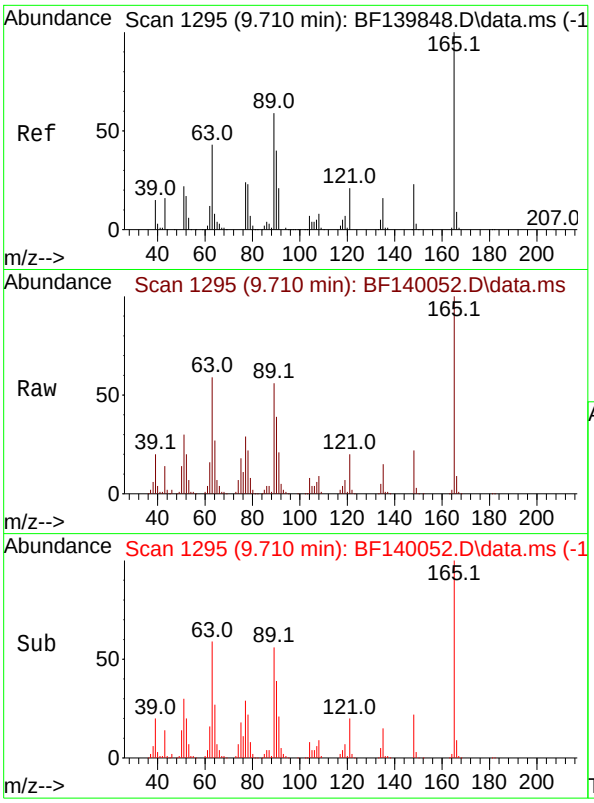


#50
Dimethylphthalate
Concen: 43.379 ng
RT: 9.651 min Scan# 1285
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:163 Resp: 774247

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.1	8.2	12.2

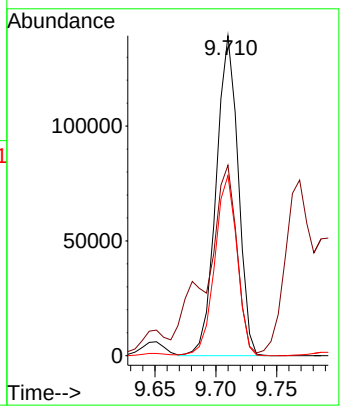




#51
2,6-Dinitrotoluene
Concen: 45.415 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:165 Resp: 17550

Ion	Ratio	Lower	Upper
165	100		
63	59.5	50.6	75.8
89	56.3	47.5	71.3



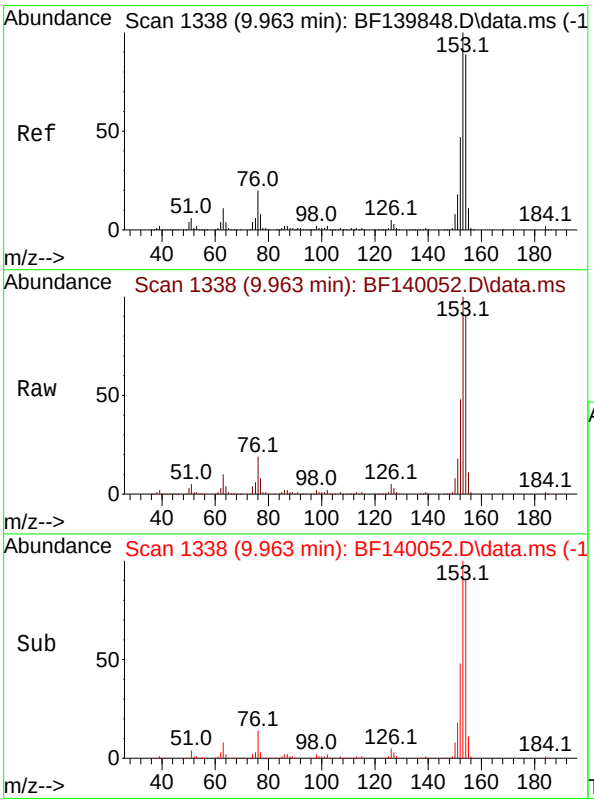
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

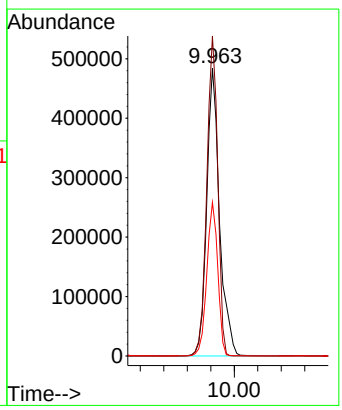
10/29/2024

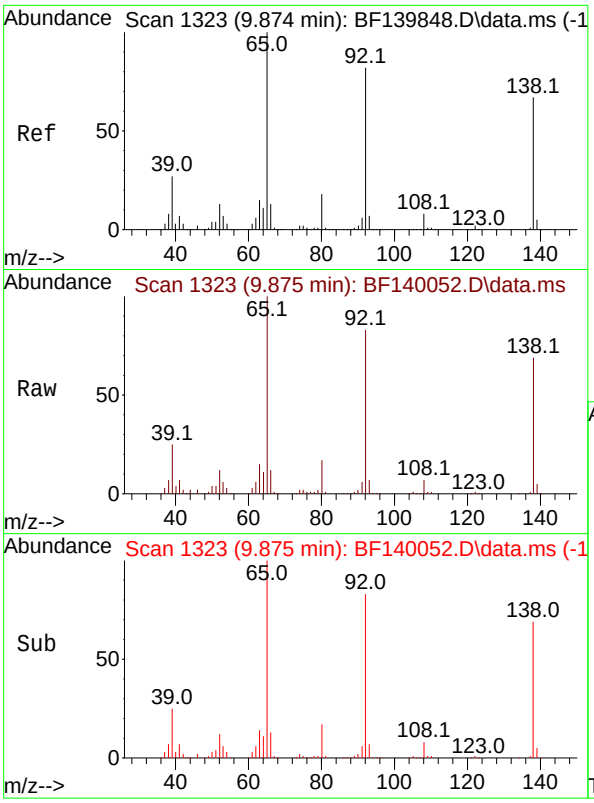


#52
Acenaphthene
Concen: 48.802 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:154 Resp: 733262

Ion	Ratio	Lower	Upper
154	100		
153	111.3	89.8	134.6
152	53.4	42.4	63.6





#53
3-Nitroaniline
Concen: 29.881 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

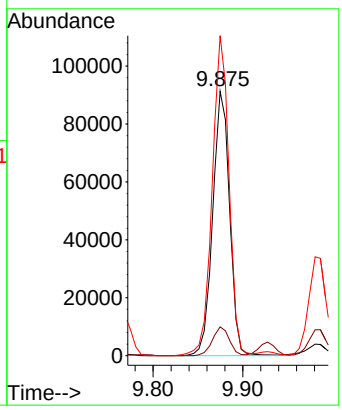
Tgt Ion:138 Resp: 11908

Ion	Ratio	Lower	Upper
138	100		
108	10.9	10.2	15.2
92	121.1	98.3	147.5

Instrument :
BNA_F
ClientSampleId :
PB164401BS

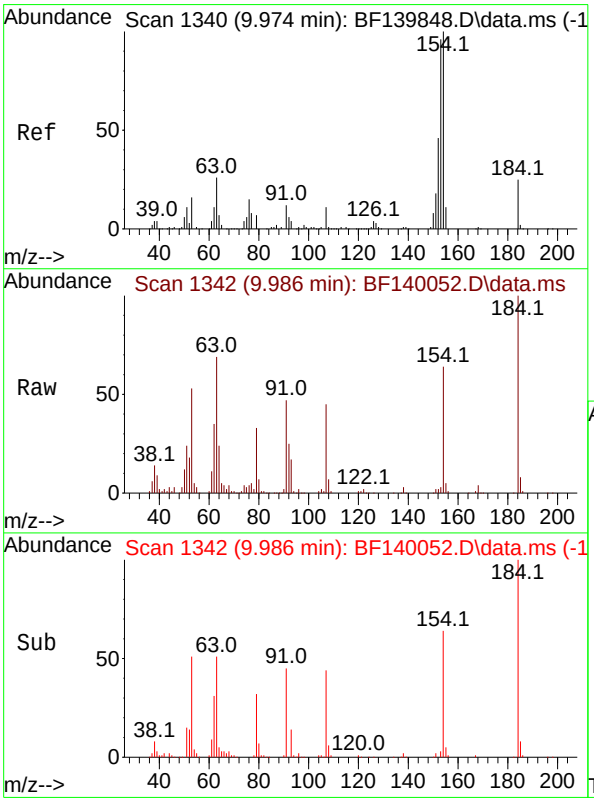
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

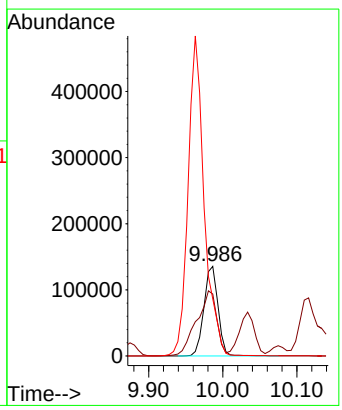
10/29/2024

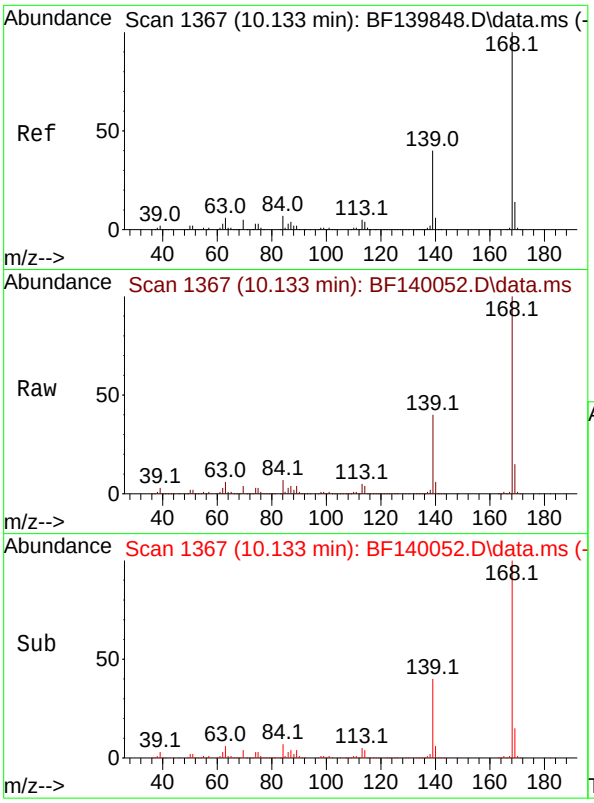


#54
2,4-Dinitrophenol
Concen: 109.200 ng
RT: 9.986 min Scan# 1342
Delta R.T. 0.012 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:184 Resp: 179501

Ion	Ratio	Lower	Upper
184	100		
63	69.1	84.7	127.1#
154	63.6	338.2	507.2#

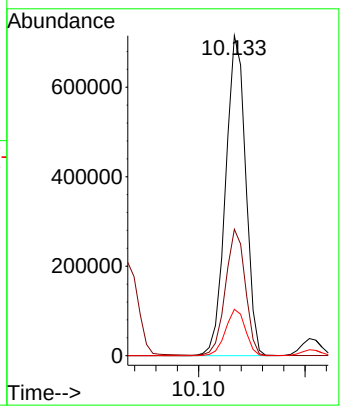




#55
Dibenzofuran
Concen: 43.183 ng
RT: 10.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:168 Resp: 93093

Ion	Ratio	Lower	Upper
168	100		
139	39.5	31.8	47.6
169	14.5	11.6	17.4



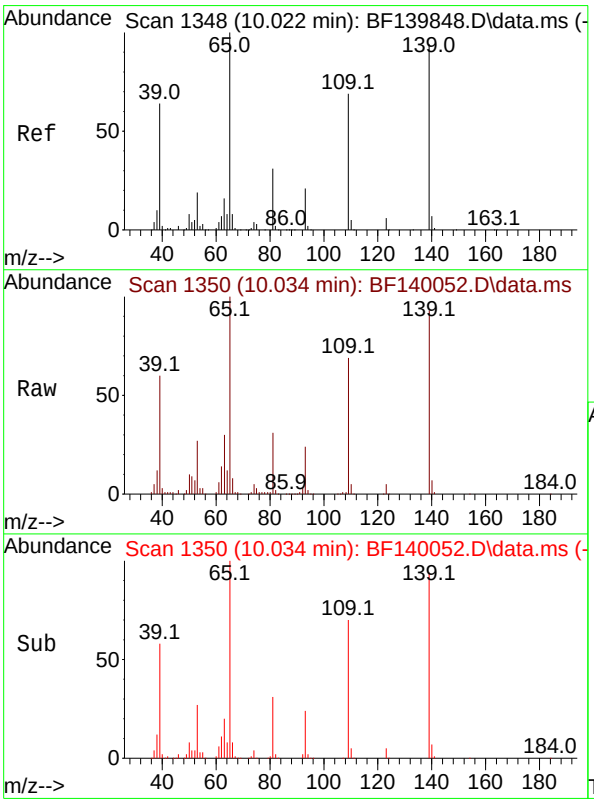
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

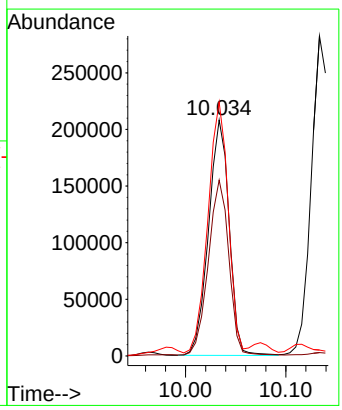
10/29/2024

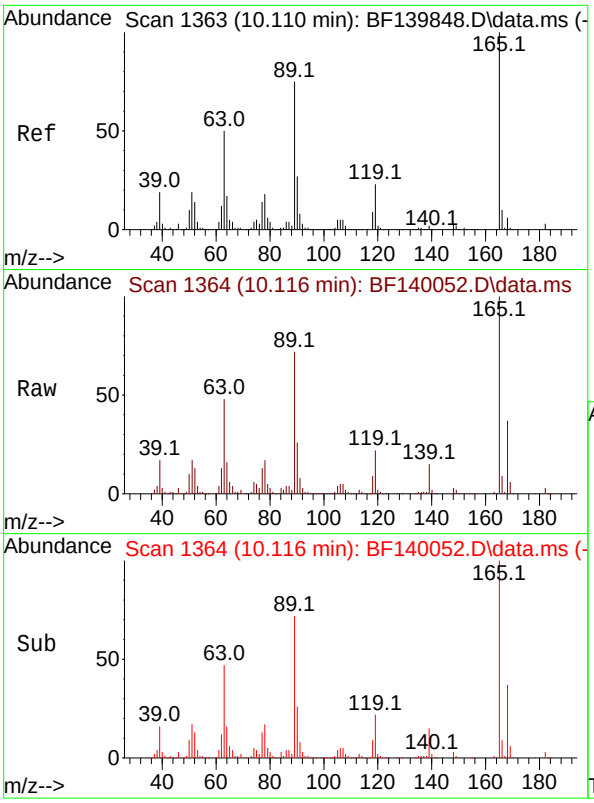


#56
4-Nitrophenol
Concen: 96.911 ng
RT: 10.034 min Scan# 1350
Delta R.T. 0.012 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:139 Resp: 297136

Ion	Ratio	Lower	Upper
139	100		
109	74.5	53.6	93.6
65	107.6	87.8	127.8

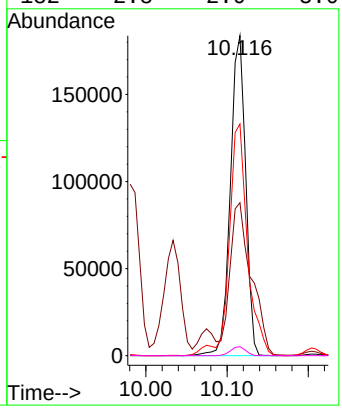




#57
2,4-Dinitrotoluene
Concen: 50.437 ng
RT: 10.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:165 Resp: 23969

Ion	Ratio	Lower	Upper
165	100		
63	47.8	40.1	60.1
89	72.4	60.4	90.6
182	2.8	2.0	3.0



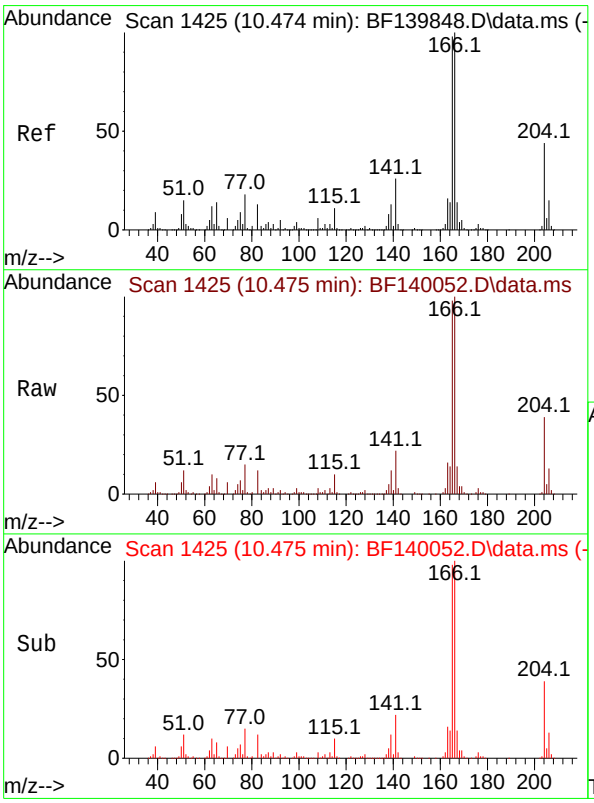
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

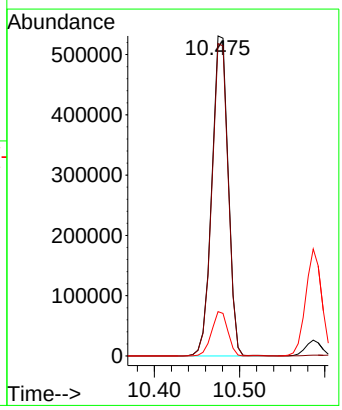
10/29/2024

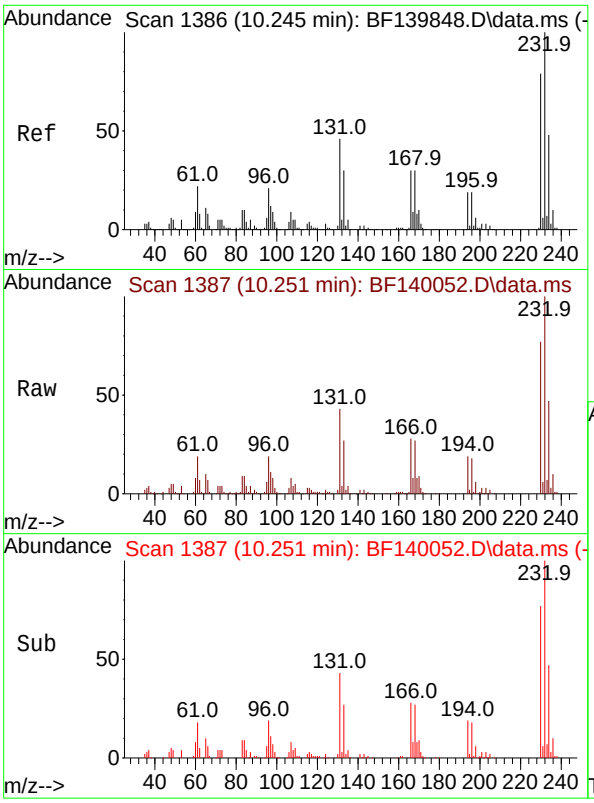


#58
Fluorene
Concen: 43.293 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:166 Resp: 710862

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.5	117.7
167	13.9	10.9	16.3

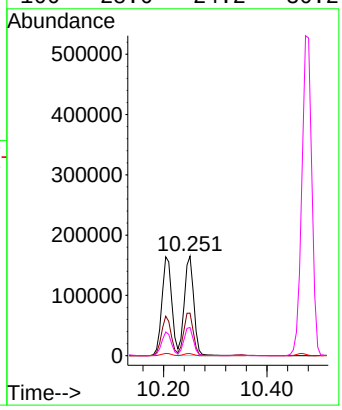




#59
2,3,4,6-Tetrachlorophenol
Concen: 47.393 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:232 Resp: 20979

Ion	Ratio	Lower	Upper
232	100		
131	43.8	37.0	55.6
130	2.1	1.9	2.9
166	28.6	24.2	36.2



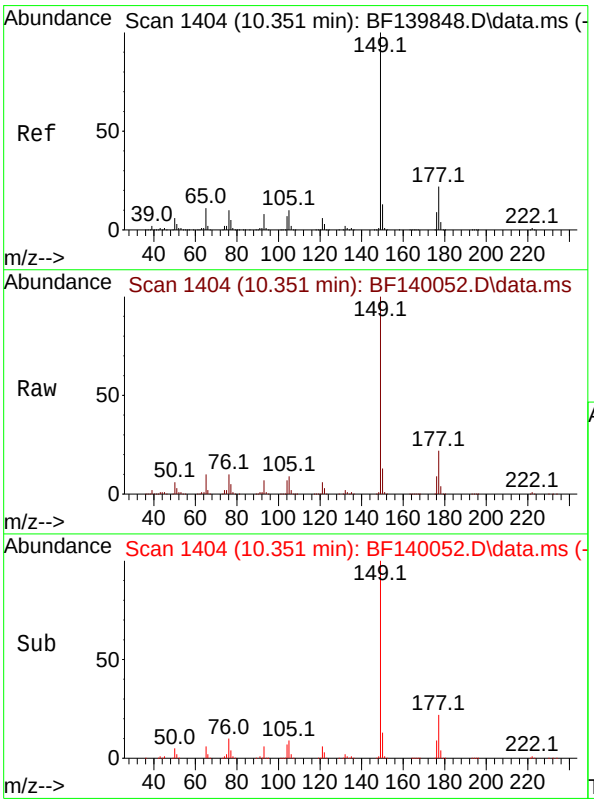
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

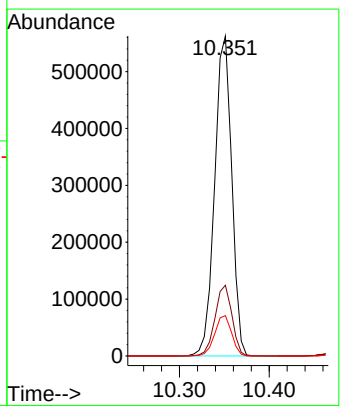
10/29/2024

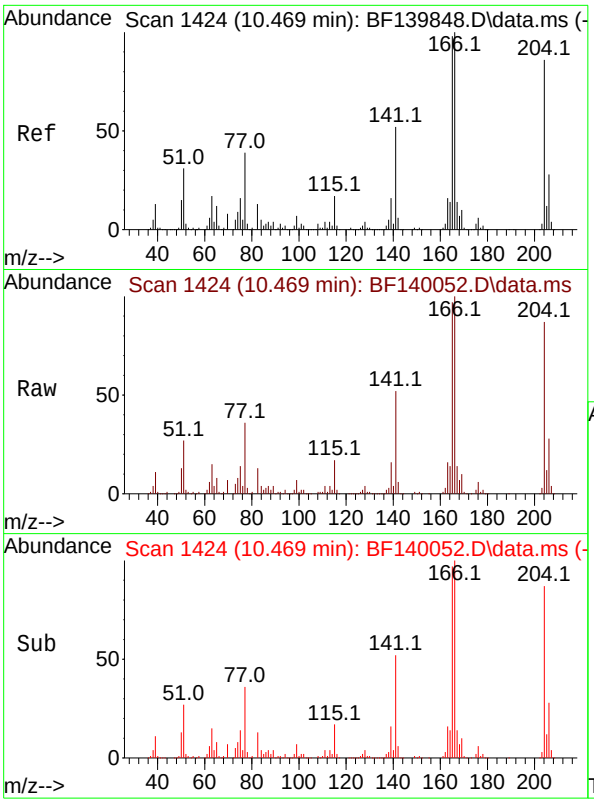


#60
Diethylphthalate
Concen: 42.392 ng
RT: 10.351 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:149 Resp: 742904

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.9	26.9
150	12.6	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 42.763 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

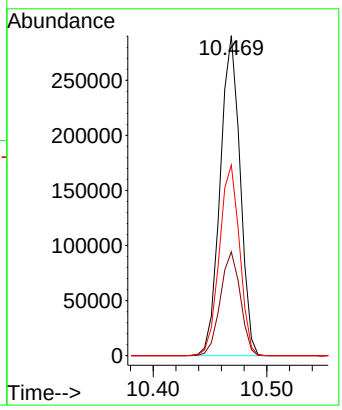
Tgt Ion:204 Resp: 35458

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.3	39.5
141	59.5	48.6	73.0

Instrument :
BNA_F
ClientSampleId :
PB164401BS

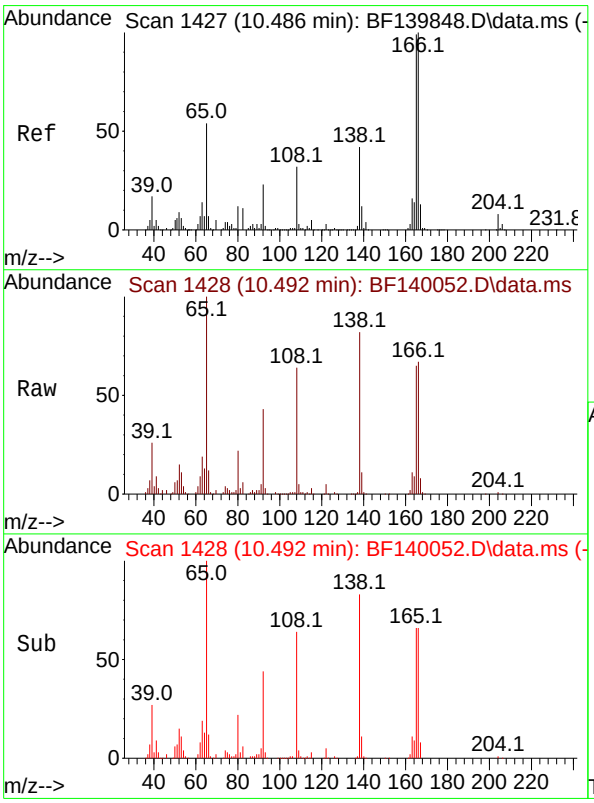
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

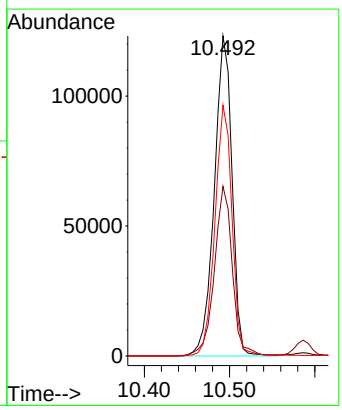
10/29/2024

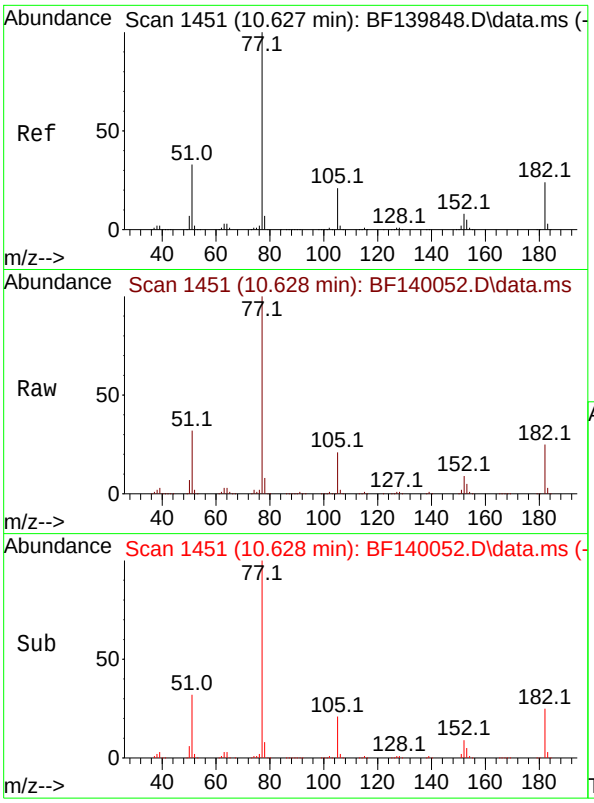


#62
4-Nitroaniline
Concen: 47.364 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:138 Resp: 178276

Ion	Ratio	Lower	Upper
138	100		
92	53.0	35.7	75.7
108	78.3	57.5	97.5

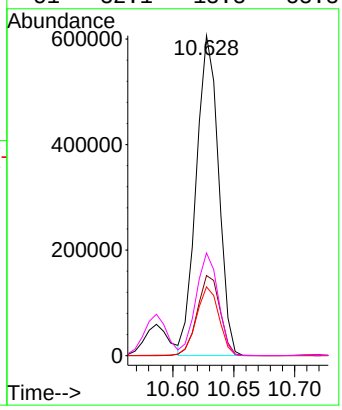




#63
Azobenzene
Concen: 41.466 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion: 77 Resp: 77038

Ion	Ratio	Lower	Upper
77	100		
182	25.1	3.3	43.3
105	21.5	1.2	41.2
51	32.1	13.3	53.3



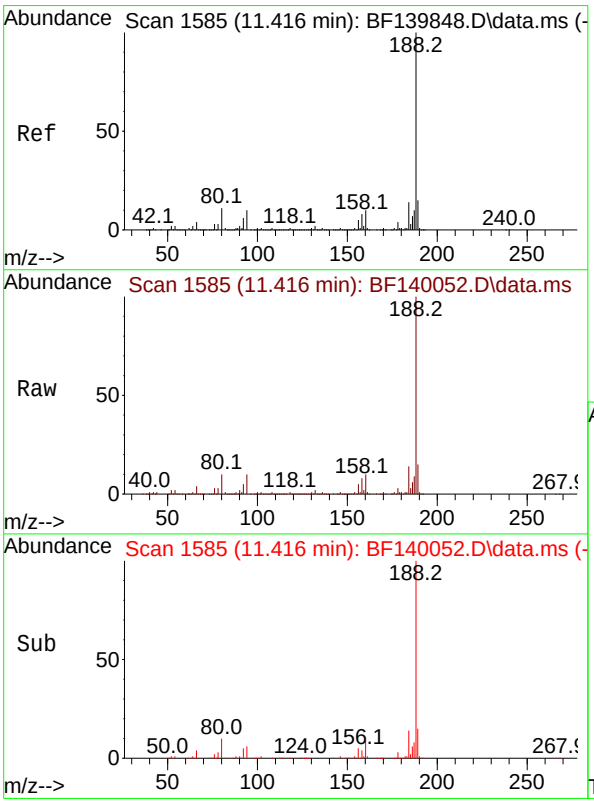
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

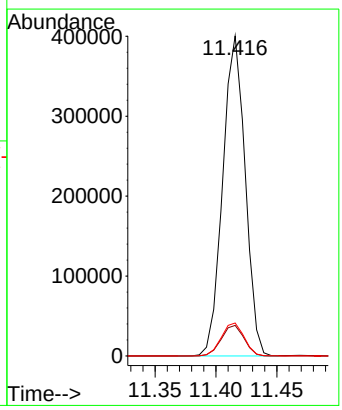
10/29/2024

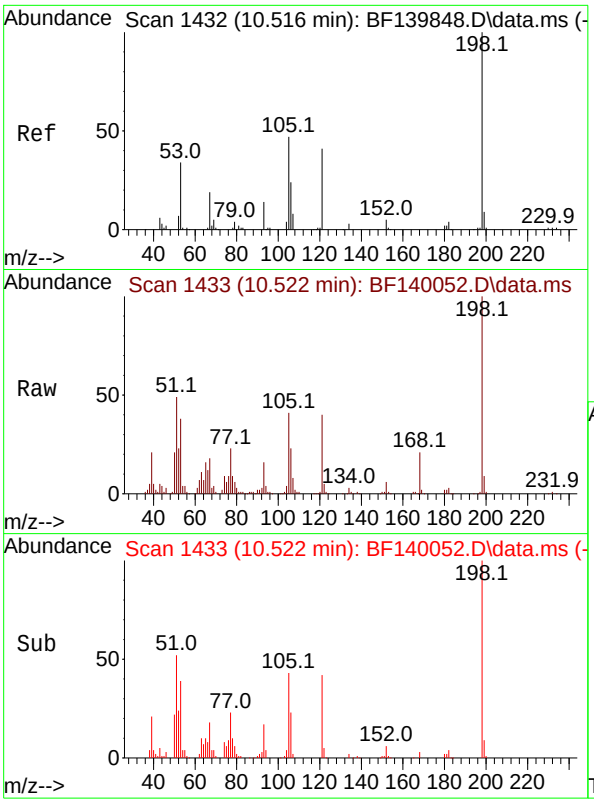


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:188 Resp: 514956

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.3	9.0	13.4





#65
4,6-Dinitro-2-methylphenol
Concen: 60.996 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:198 Resp: 12812

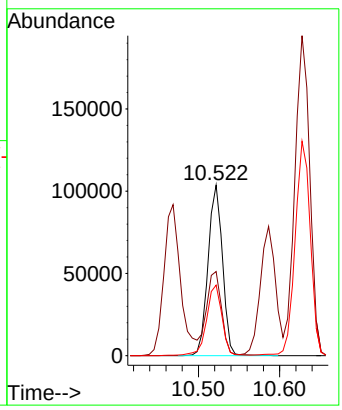
Ion	Ratio	Lower	Upper
198	100		
51	49.4	38.2	78.2
105	41.4	27.9	67.9

Instrument :
BNA_F
ClientSampleId :
PB164401BS

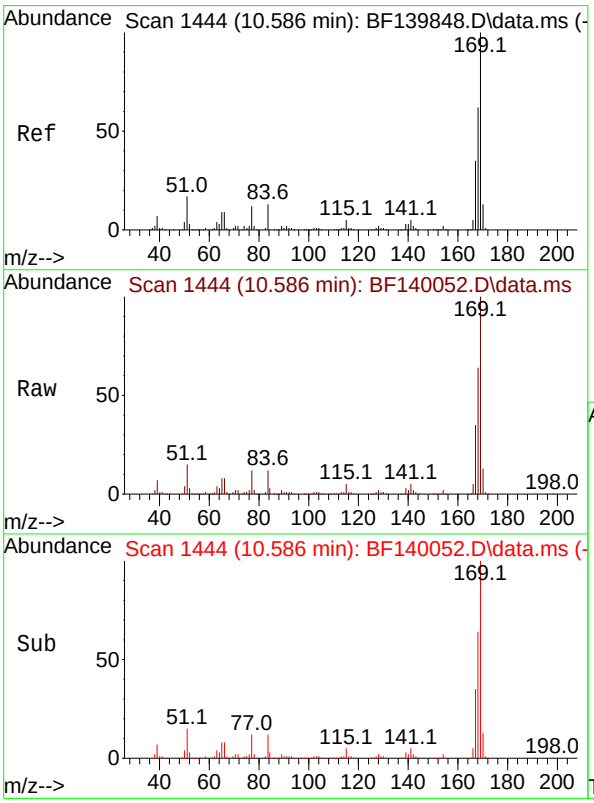
Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed



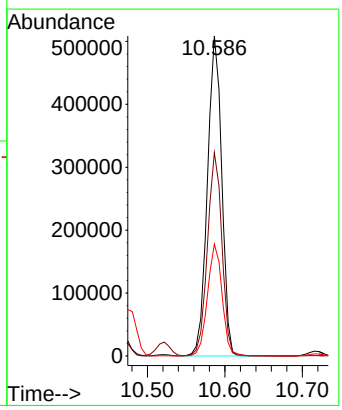
10/29/2024

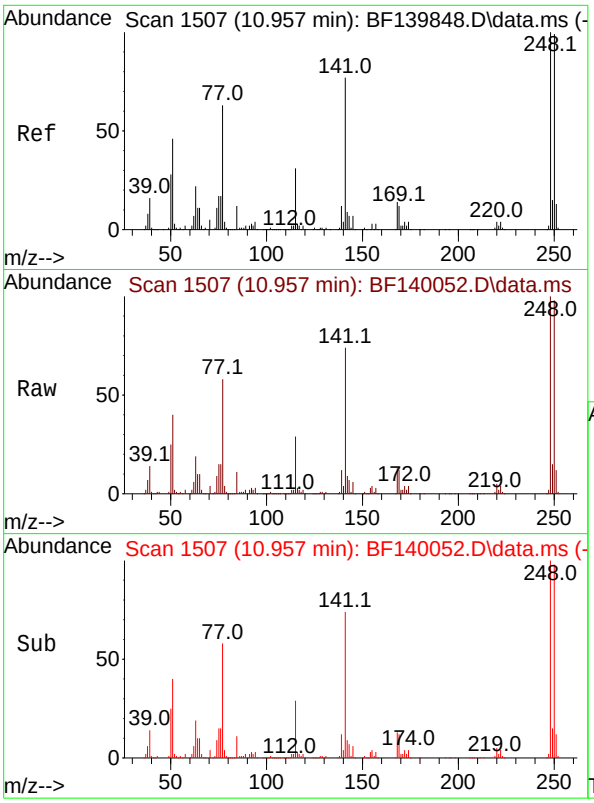


#66
n-Nitrosodiphenylamine
Concen: 42.342 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:169 Resp: 652591

Ion	Ratio	Lower	Upper
169	100		
168	63.6	49.8	74.6
167	34.9	28.0	42.0





#67
4-Bromophenyl-phenylether
Concen: 42.848 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

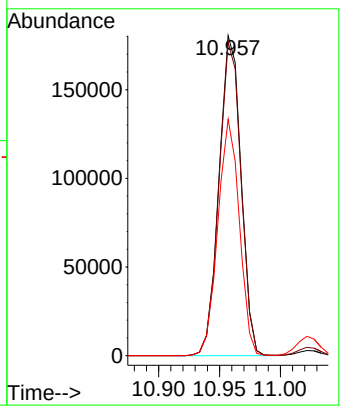
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Tgt Ion:248 Resp: 22730

Ion	Ratio	Lower	Upper
248	100		
250	98.0	79.0	118.6
141	73.9	61.7	92.5

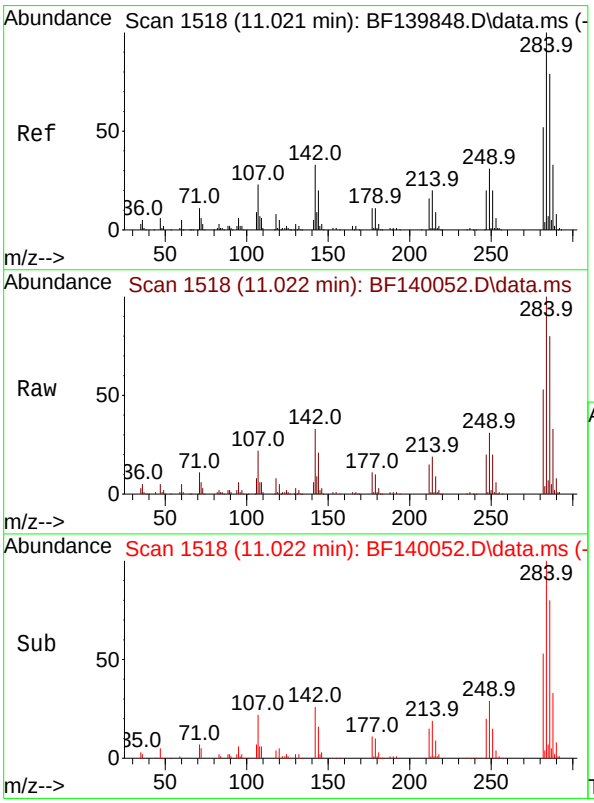
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

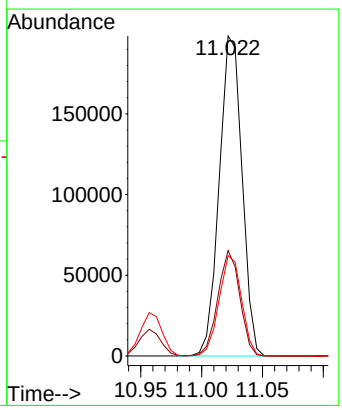
10/29/2024

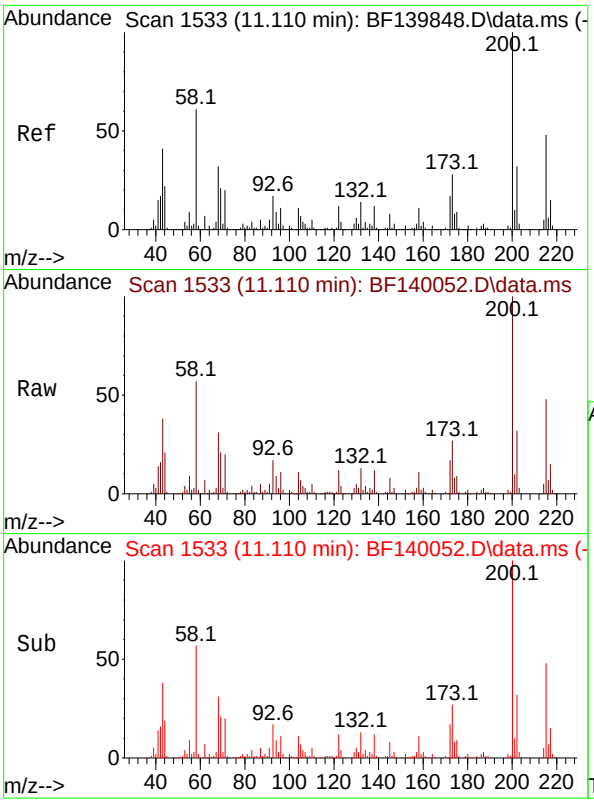


#68
Hexachlorobenzene
Concen: 43.305 ng
RT: 11.022 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:284 Resp: 258374

Ion	Ratio	Lower	Upper
284	100		
142	33.0	26.9	40.3
249	31.4	25.3	37.9





#69
Atrazine
Concen: 51.244 ng
RT: 11.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

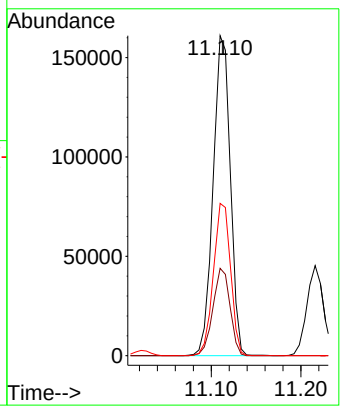
Tgt Ion:200 Resp: 21394

Ion	Ratio	Lower	Upper
200	100		
173	27.3	7.7	47.7
215	47.6	27.7	67.7

Instrument :
BNA_F
ClientSampleId :
PB164401BS

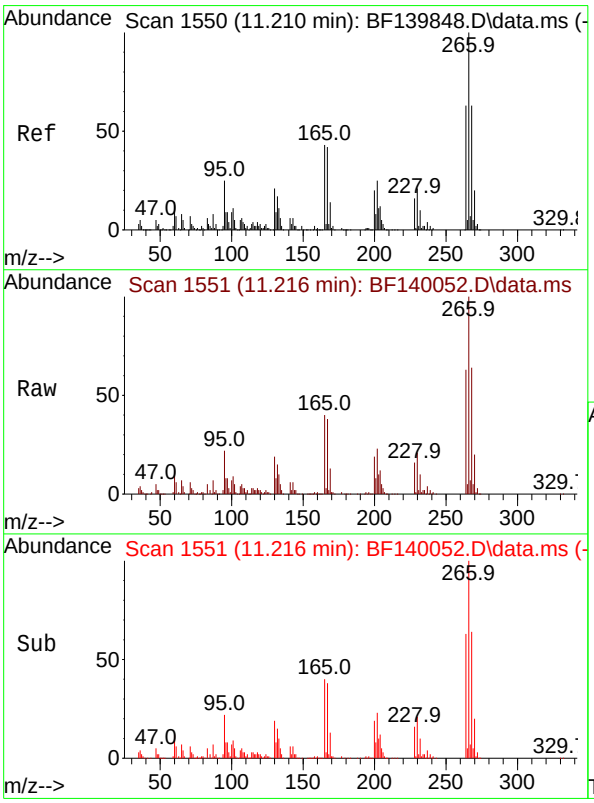
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

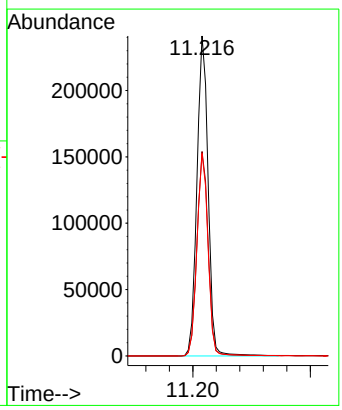
10/29/2024

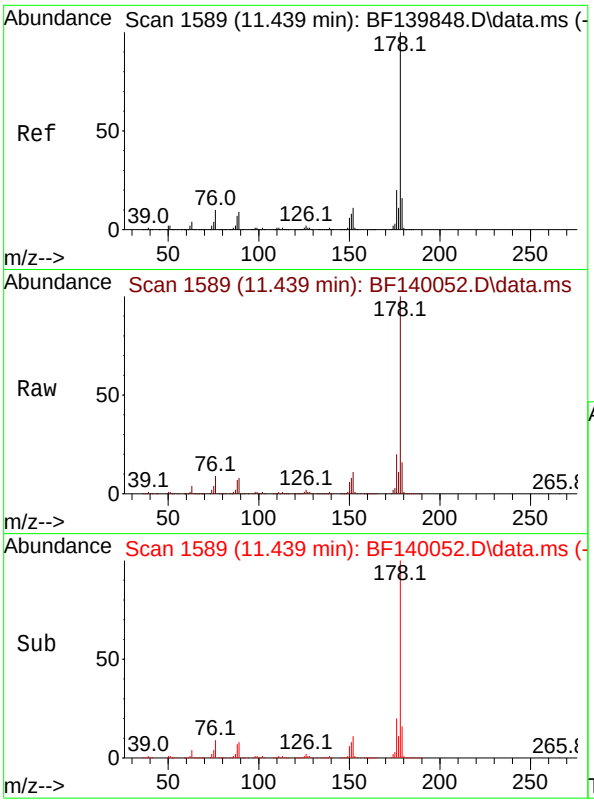


#70
Pentachlorophenol
Concen: 87.799 ng
RT: 11.216 min Scan# 1551
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:266 Resp: 317923

Ion	Ratio	Lower	Upper
266	100		
268	63.9	50.4	75.6
264	63.3	50.6	75.8





#71
Phenanthrene
Concen: 44.363 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

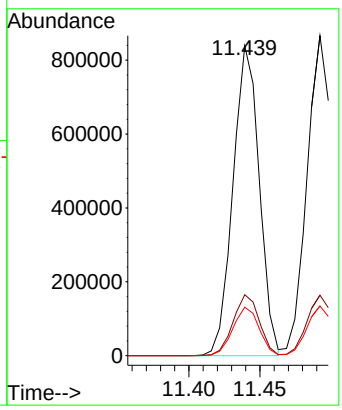
Tgt Ion:178 Resp: 107910

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.6
179	15.7	12.6	18.8

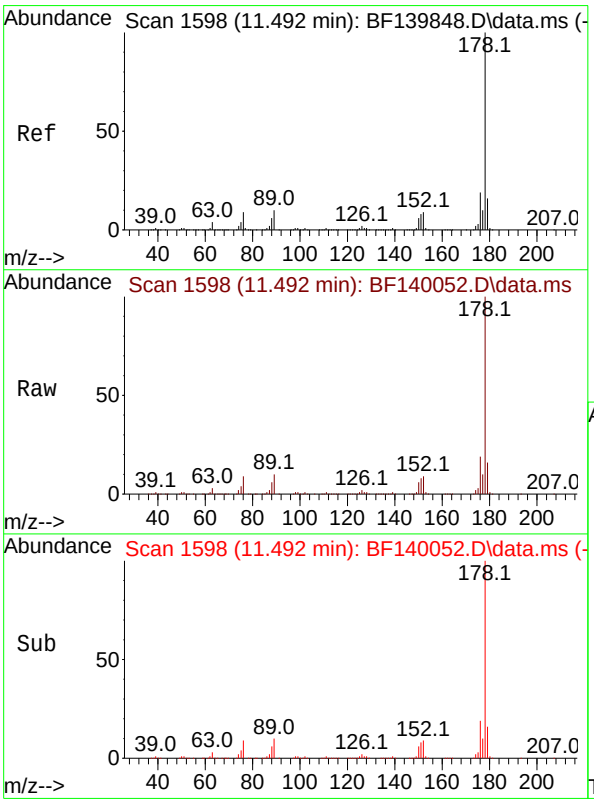
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel



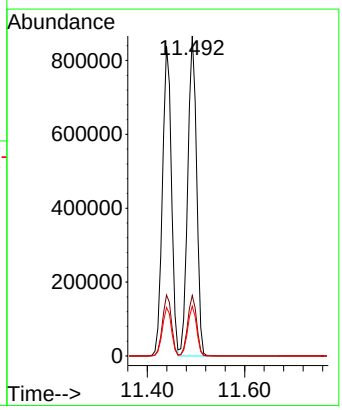
10/29/2024
Supervised By :mohammad ahmed



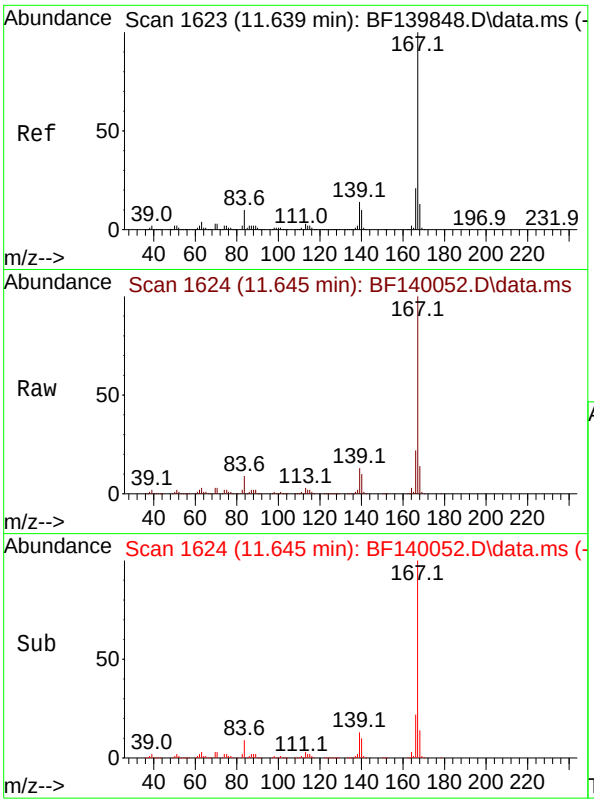
#72
Anthracene
Concen: 46.061 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:178 Resp: 1093172

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.5	12.4	18.6



10/29/2024



#73
Carbazole
Concen: 43.616 ng
RT: 11.645 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

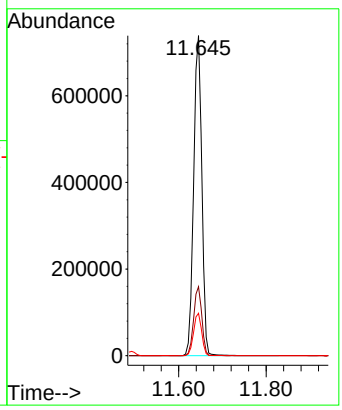
Tgt Ion:167 Resp: 96270

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.0	25.6
139	13.2	10.8	16.2

Instrument :
BNA_F
ClientSampleId :
PB164401BS

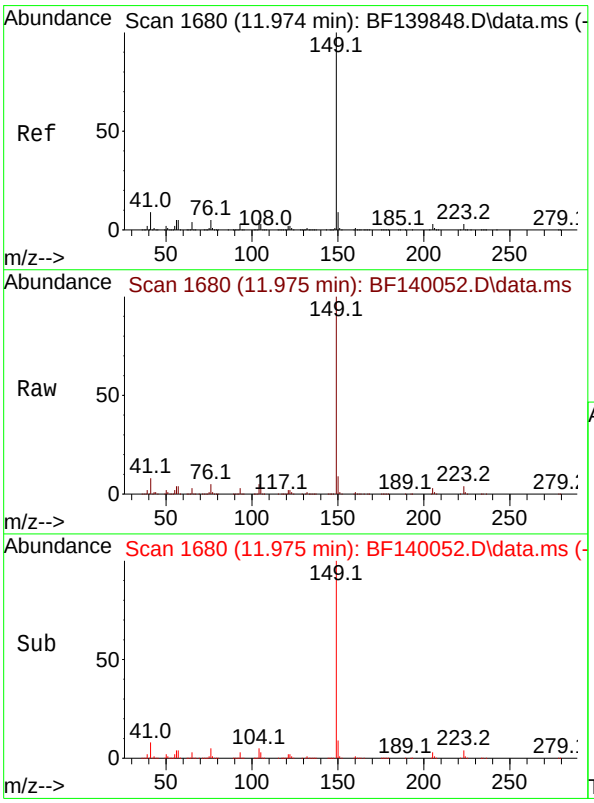
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

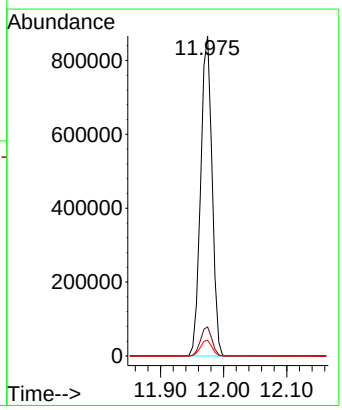
10/29/2024

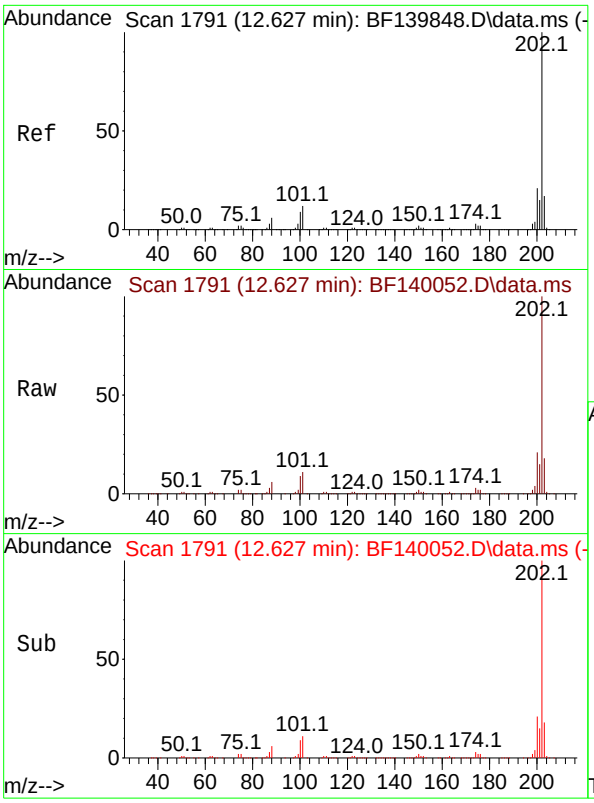


#74
Di-n-butylphthalate
Concen: 42.635 ng
RT: 11.975 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:149 Resp: 1087234

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.5	11.3
104	4.9	4.1	6.1





#75
Fluoranthene
Concen: 45.059 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

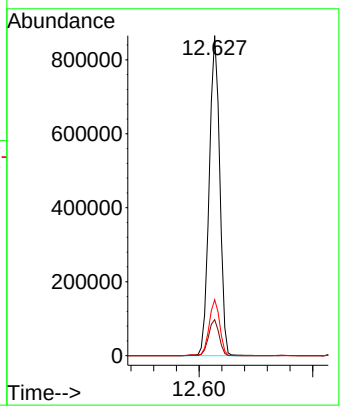
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Tgt Ion:202 Resp: 110801

Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	31.9
203	17.5	0.0	37.5

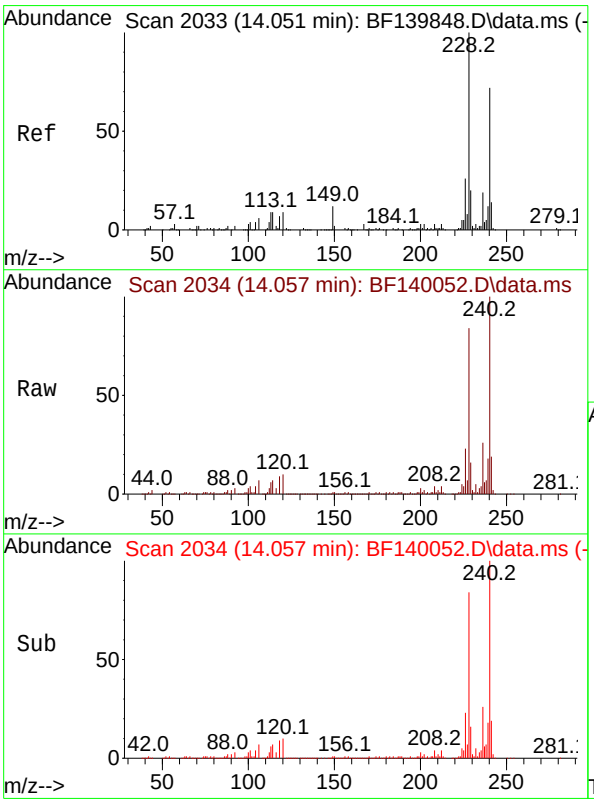
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

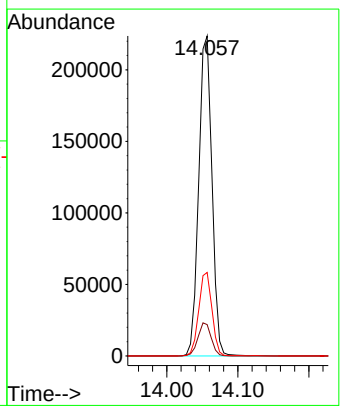
10/29/2024

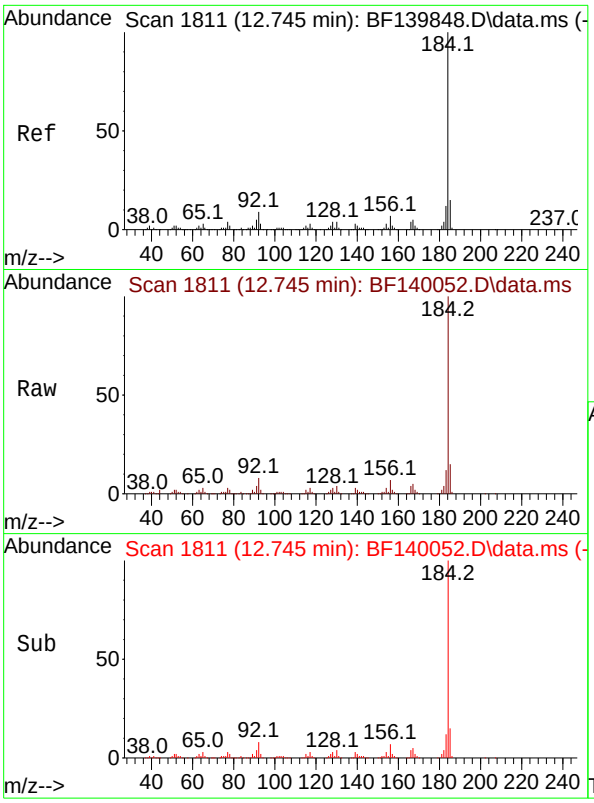


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:240 Resp: 290190

Ion	Ratio	Lower	Upper
240	100		
120	9.8	9.4	14.2
236	26.1	20.9	31.3





#77
Benzidine
Concen: 48.912 ng
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Instrument :
BNA_F
ClientSampleId :
PB164401BS

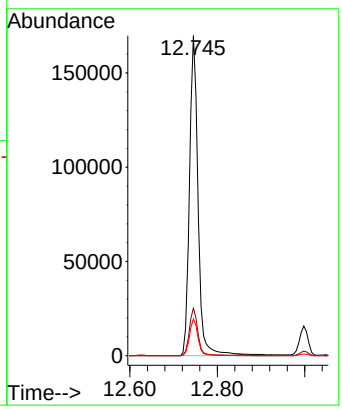
Tgt Ion:184 Resp: 23339

Ion	Ratio	Lower	Upper
184	100		
185	14.8	12.0	18.0
183	11.5	9.4	14.2

Manual Integrations
APPROVED

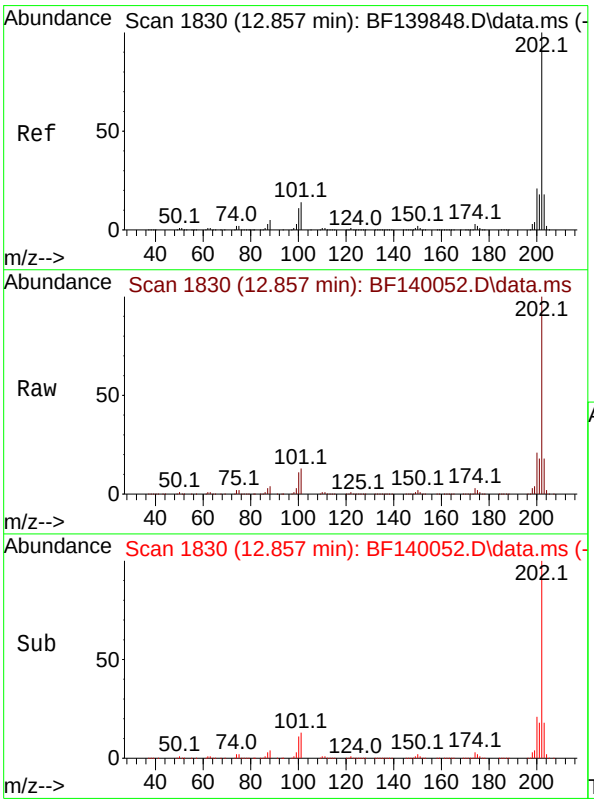
Reviewed By :Yogesh Patel

10/29/2024



Supervised By :mohammad ahmed

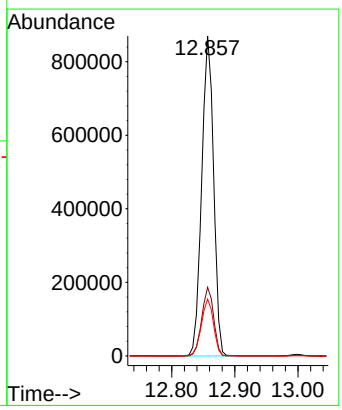
10/29/2024

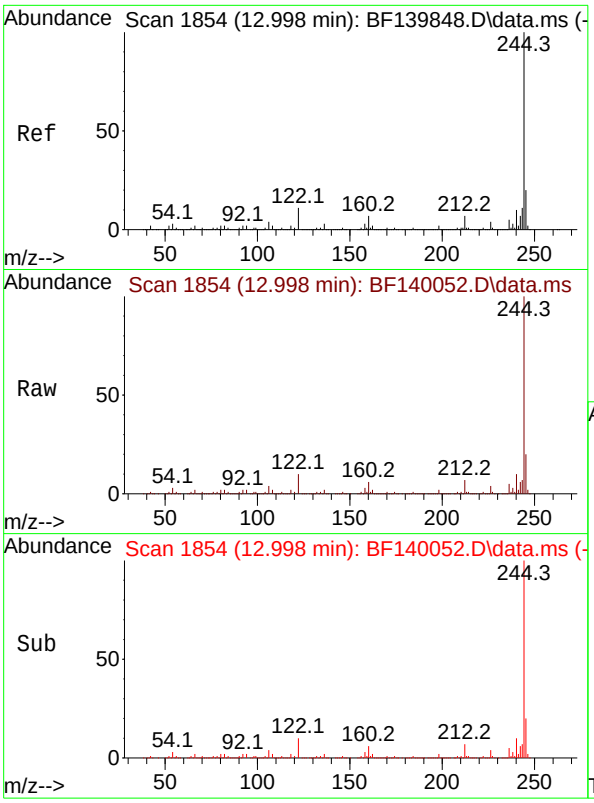


#78
Pyrene
Concen: 44.878 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:202 Resp: 1139954

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8
203	17.8	14.2	21.4

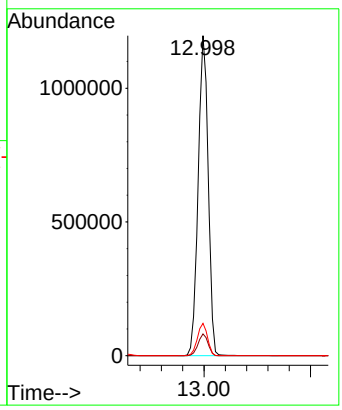




#79
Terphenyl-d14
Concen: 87.871 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:244 Resp: 156487

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	10.1	8.6	13.0



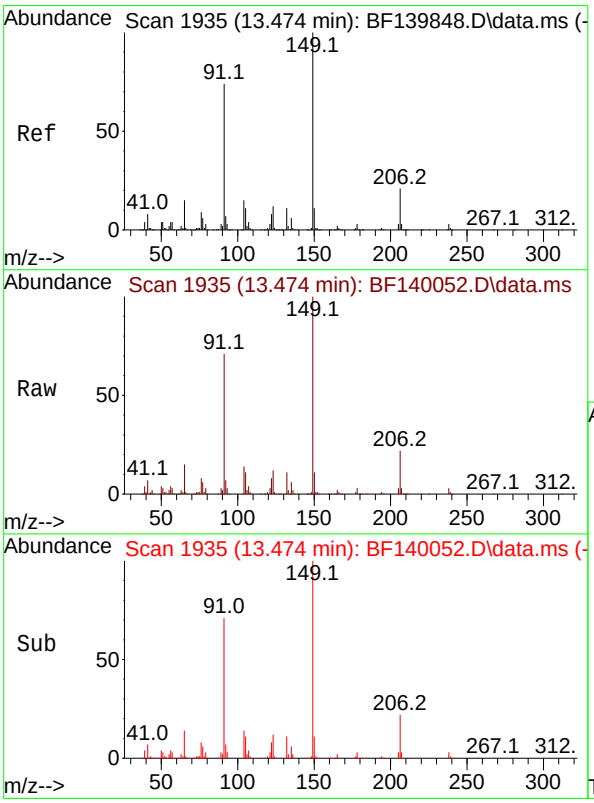
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

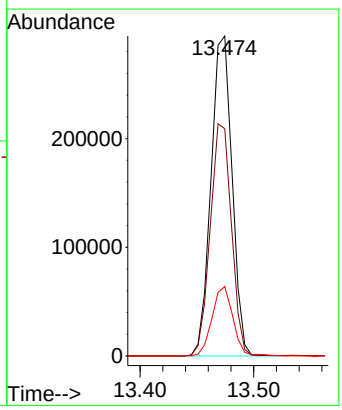
10/29/2024

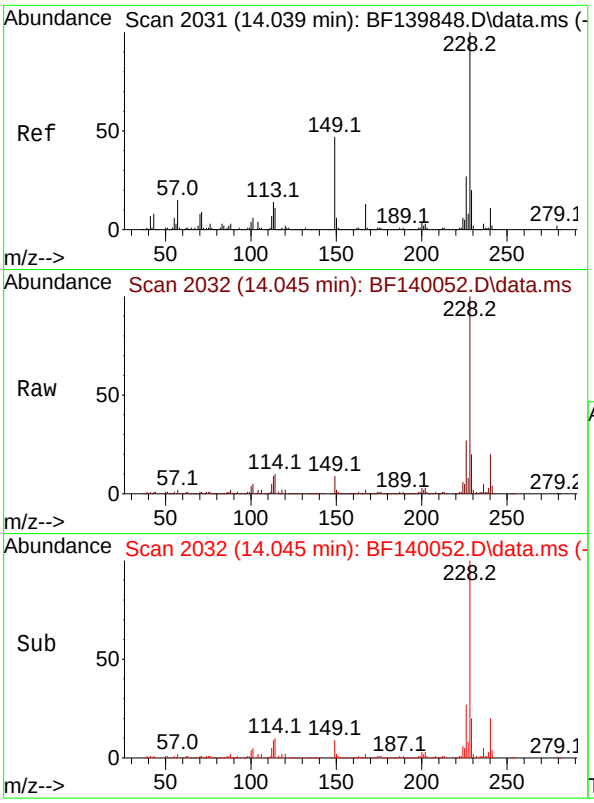


#80
Butylbenzylphthalate
Concen: 49.883 ng
RT: 13.474 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:149 Resp: 379877

Ion	Ratio	Lower	Upper
149	100		
91	71.0	59.4	89.2
206	21.7	16.4	24.6





#81
Benzo(a)anthracene
Concen: 45.972 ng
RT: 14.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

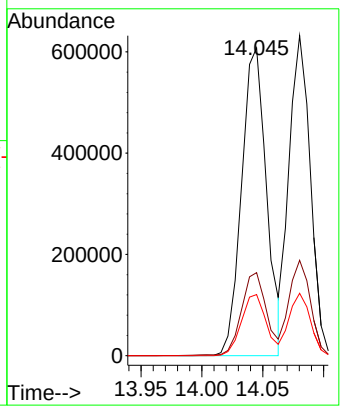
Tgt Ion:228 Resp: 86842

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.6	32.4
229	19.8	16.1	24.1

Instrument :
BNA_F
ClientSampleId :
PB164401BS

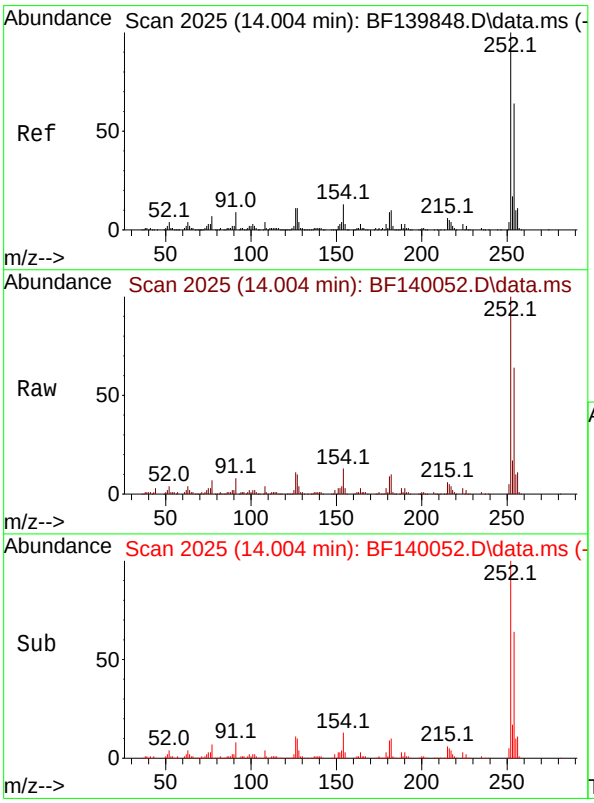
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

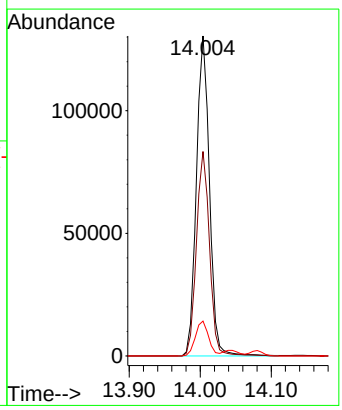
10/29/2024

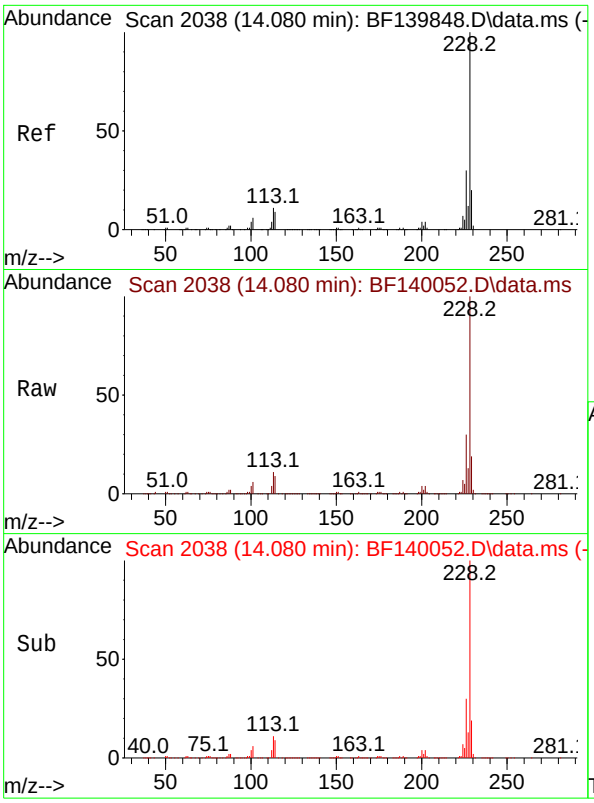


#82
3,3'-Dichlorobenzidine
Concen: 30.393 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:252 Resp: 167400

Ion	Ratio	Lower	Upper
252	100		
254	63.9	50.8	76.2
126	10.9	8.9	13.3





#83
Chrysene
Concen: 44.828 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

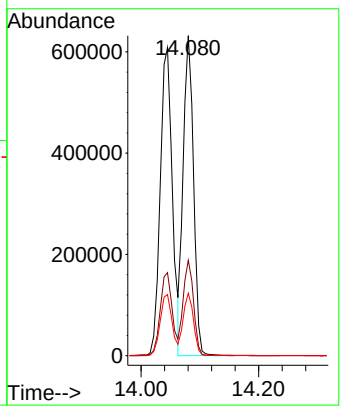
Tgt Ion:228 Resp: 7764

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.1	36.1
229	19.5	15.8	23.6

Instrument :
BNA_F
ClientSampleId :
PB164401BS

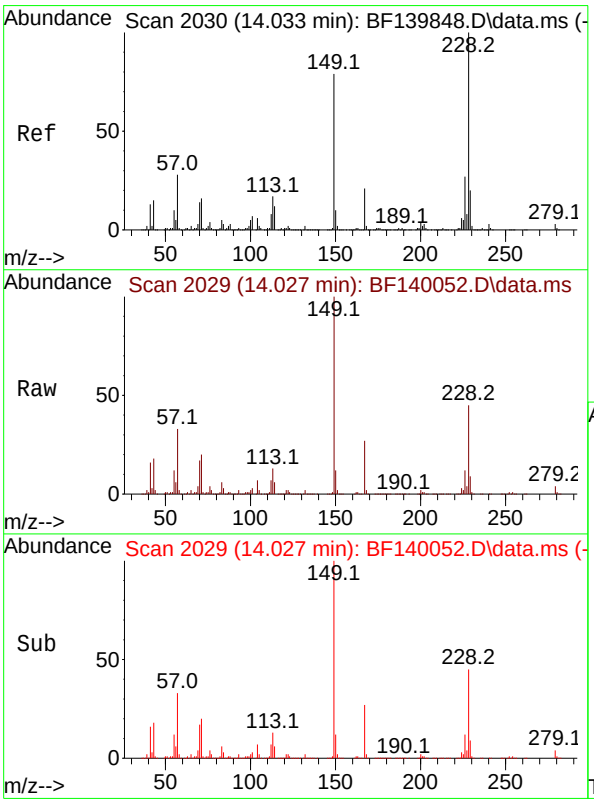
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

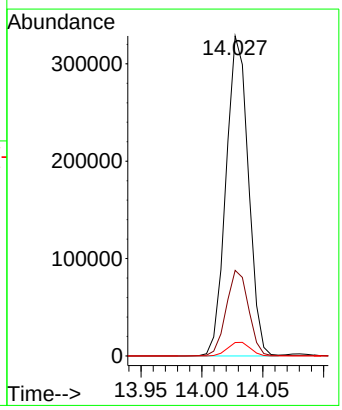
10/29/2024

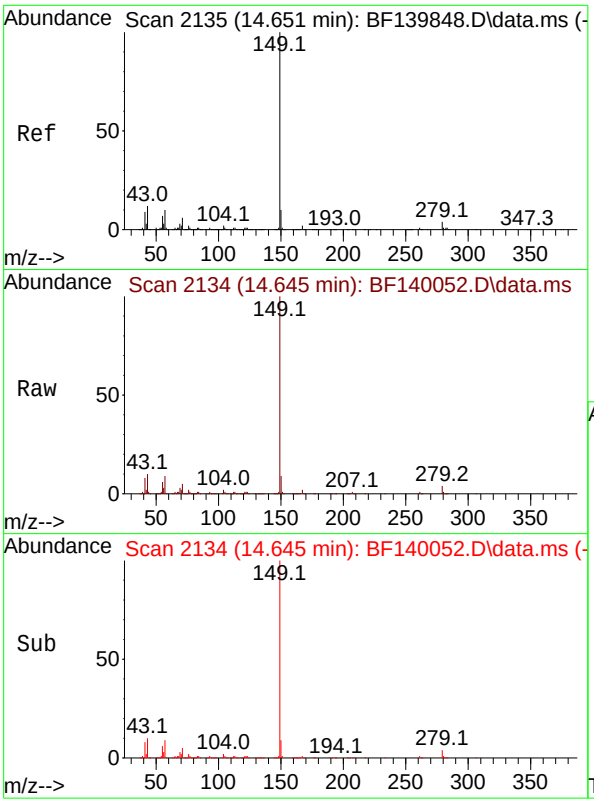


#84
Bis(2-ethylhexyl)phthalate
Concen: 49.087 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:149 Resp: 419403

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.0
279	4.2	3.0	4.4





#85
Di-n-octyl phthalate
Concen: 39.162 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

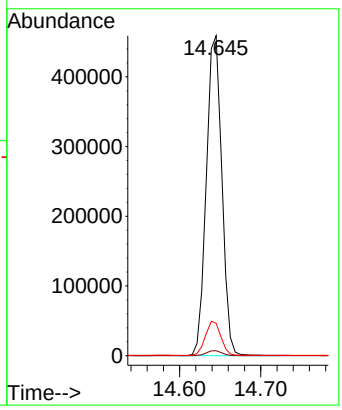
Tgt Ion:149 Resp: 60859

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.7	9.8	14.6

Instrument :
BNA_F
ClientSampleId :
PB164401BS

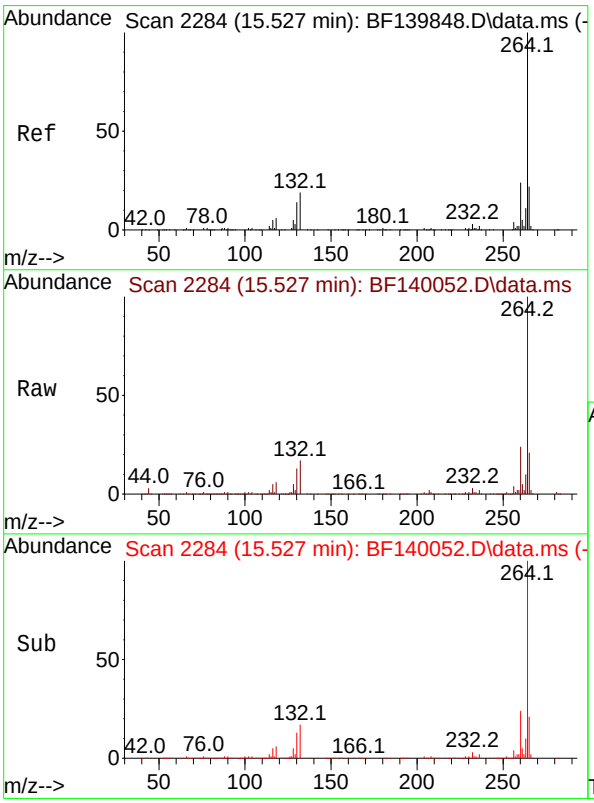
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

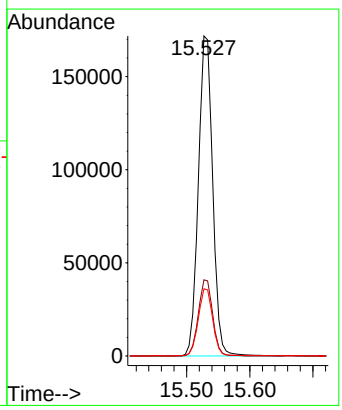
10/29/2024

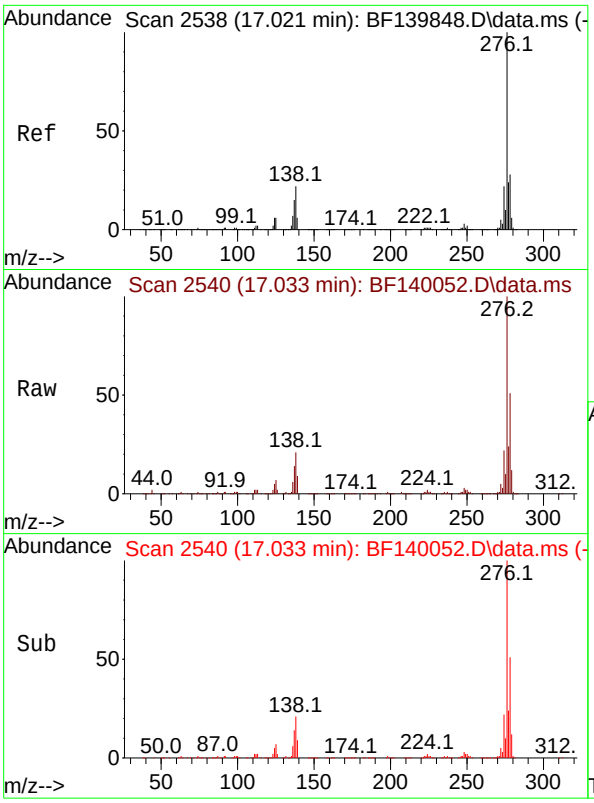


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:264 Resp: 270508

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.4	29.2
265	21.0	17.4	26.0

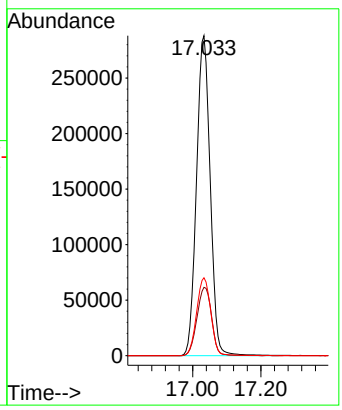




#87
Indeno(1,2,3-cd)pyrene
Concen: 46.194 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:276 Resp: 80389

Ion	Ratio	Lower	Upper
276	100		
138	22.9	20.4	30.6
277	25.2	20.2	30.4



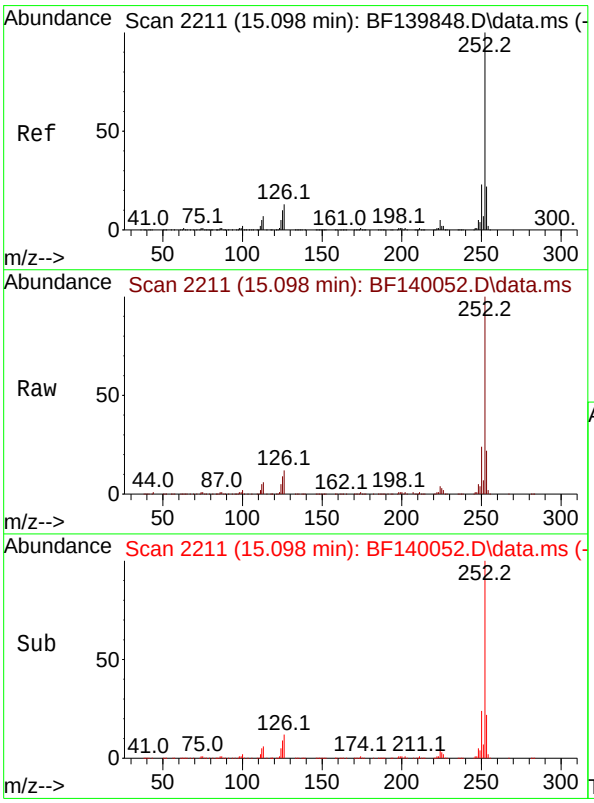
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

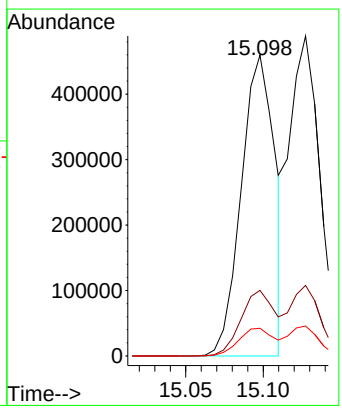
10/29/2024

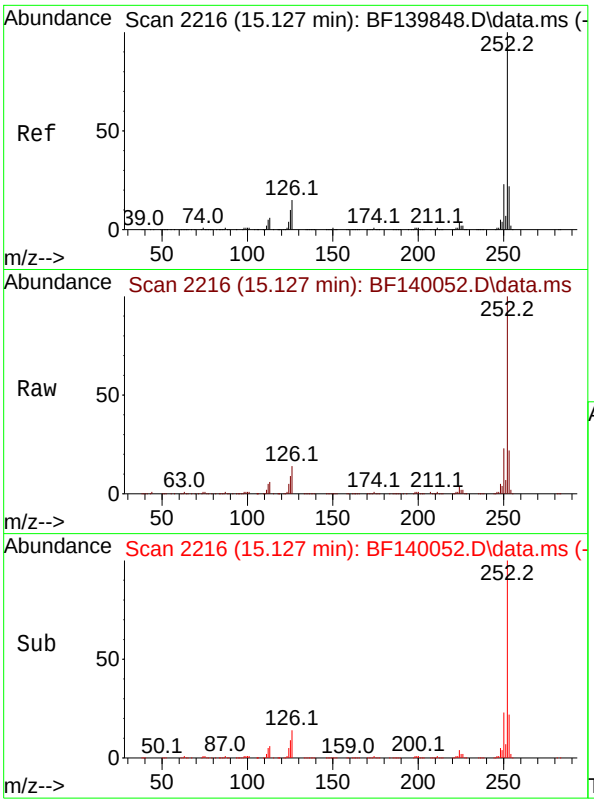


#88
Benzo(b)fluoranthene
Concen: 41.946 ng
RT: 15.098 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:252 Resp: 691202

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	9.2	7.9	11.9





#89
Benzo(k)fluoranthene
Concen: 47.231 ng
RT: 15.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

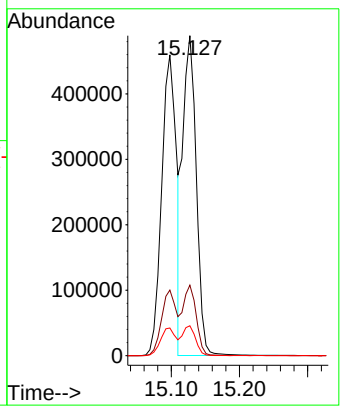
Tgt Ion:252 Resp: 67121

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	9.4	7.9	11.9

Instrument :
BNA_F
ClientSampleId :
PB164401BS

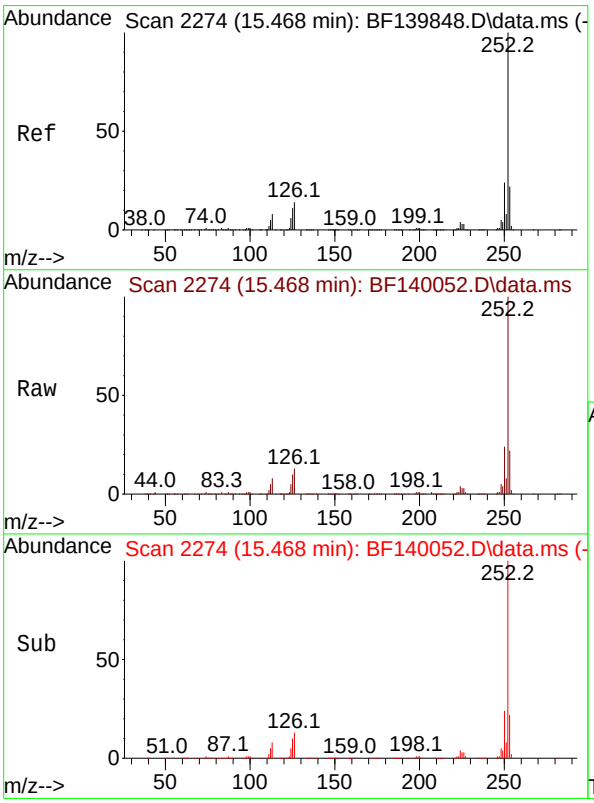
Manual Integrations APPROVED

Reviewed By :Yogesh Patel



10/29/2024
Supervised By :mohammad ahmed

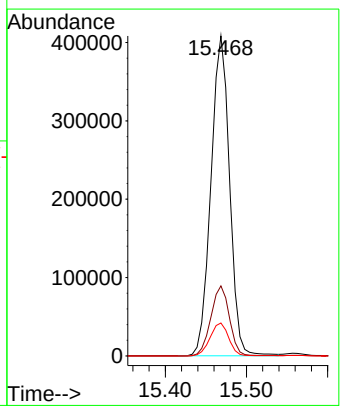
10/29/2024

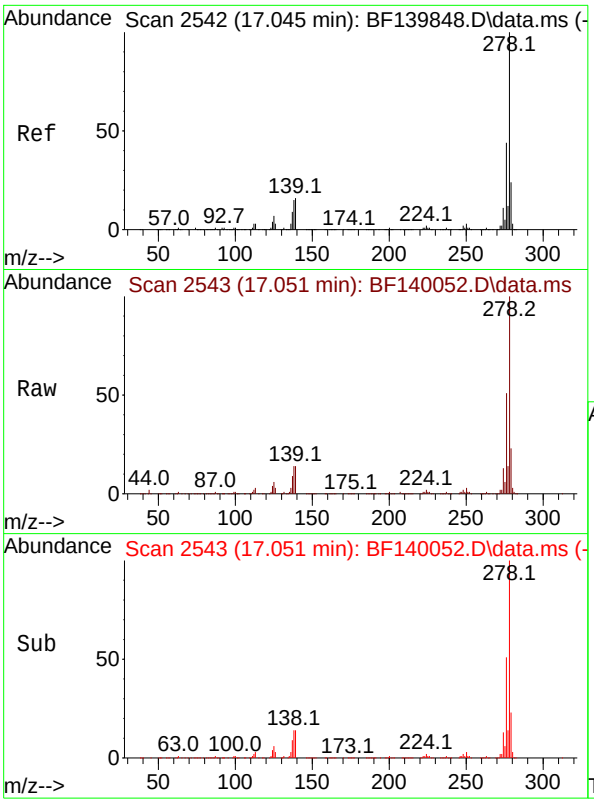


#90
Benzo(a)pyrene
Concen: 48.018 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:252 Resp: 651066

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9
125	10.3	8.7	13.1

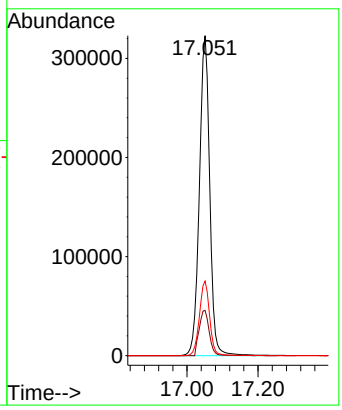




#91
Dibenzo(a,h)anthracene
Concen: 45.212 ng
RT: 17.051 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:278 Resp: 65636

Ion	Ratio	Lower	Upper
278	100		
139	14.1	13.1	19.7
279	23.3	19.0	28.4



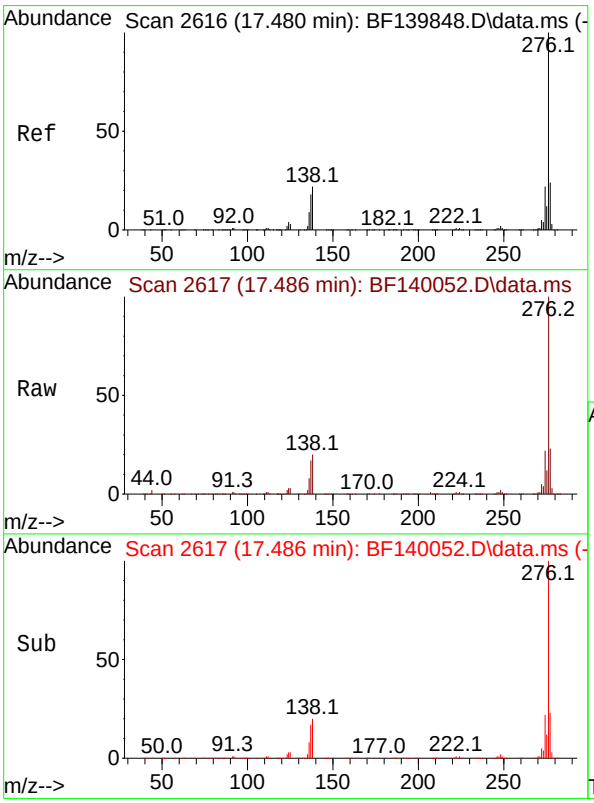
Instrument :
BNA_F
ClientSampleId :
PB164401BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/29/2024
Supervised By :mohammad ahmed

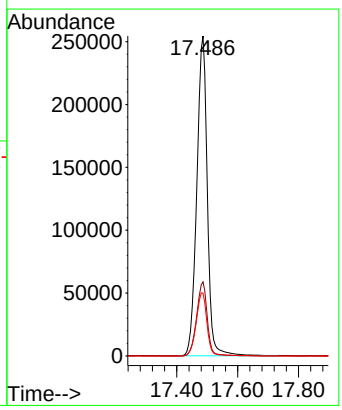
10/29/2024



#92
Benzo(g,h,i)perylene
Concen: 42.071 ng
RT: 17.486 min Scan# 2617
Delta R.T. 0.006 min
Lab File: BF140052.D
Acq: 26 Oct 2024 11:34

Tgt Ion:276 Resp: 610078

Ion	Ratio	Lower	Upper
276	100		
277	23.2	19.0	28.6
138	19.6	17.4	26.0



Raw Data: **BF140057.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	940		60.1	230	ug/Kg
110-86-1	Pyridine	930		55.3	120	ug/Kg
100-52-7	Benzaldehyde	280		130	230	ug/Kg
62-53-3	Aniline	570		67.0	120	ug/Kg
108-95-2	Phenol	970		57.4	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	940		57.9	120	ug/Kg
95-57-8	2-Chlorophenol	1000		57.8	120	ug/Kg
95-50-1	1,2-Dichlorobenzene	980		58.5	120	ug/Kg
541-73-1	1,3-Dichlorobenzene	930		59.5	120	ug/Kg
106-46-7	1,4-Dichlorobenzene	940		59.8	120	ug/Kg
100-51-6	Benzyl Alcohol	1000		57.4	230	ug/Kg
95-48-7	2-Methylphenol	970		55.8	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	910		62.9	120	ug/Kg
98-86-2	Acetophenone	920		60.1	120	ug/Kg
65794-96-9	3+4-Methylphenols	940		55.2	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	950		27.9	55.3	ug/Kg
67-72-1	Hexachloroethane	960		57.4	120	ug/Kg
98-95-3	Nitrobenzene	930		62.8	120	ug/Kg
78-59-1	Isophorone	980		58.5	120	ug/Kg
88-75-5	2-Nitrophenol	1200		65.4	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		64.5	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	950		59.4	120	ug/Kg
120-83-2	2,4-Dichlorophenol	990		52.2	120	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	930		59.1	120	ug/Kg
65-85-0	Benzoic acid	890		160	230	ug/Kg
91-20-3	Naphthalene	940		57.1	120	ug/Kg
106-47-8	4-Chloroaniline	170		57.1	120	ug/Kg
87-68-3	Hexachlorobutadiene	960		57.6	120	ug/Kg
105-60-2	Caprolactam	990		60.1	230	ug/Kg

Raw Data: **BF140057.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	990		53.6	120	ug/Kg
91-57-6	2-Methylnaphthalene	980		57.1	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000		49.4	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	970		51.2	120	ug/Kg
92-52-4	1,1-Biphenyl	940		60.5	120	ug/Kg
91-58-7	2-Chloronaphthalene	940		57.6	120	ug/Kg
88-74-4	2-Nitroaniline	1100		65.7	120	ug/Kg
131-11-3	Dimethylphthalate	990		56.5	120	ug/Kg
208-96-8	Acenaphthylene	1000		59.8	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		57.6	120	ug/Kg
99-09-2	3-Nitroaniline	440		61.7	120	ug/Kg
83-32-9	Acenaphthene	1100		56.1	120	ug/Kg
51-28-5	2,4-Dinitrophenol	2300	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	1900	E	80.3	230	ug/Kg
132-64-9	Dibenzofuran	950		58.4	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		59.6	120	ug/Kg
84-66-2	Diethylphthalate	980		55.4	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	970		59.2	120	ug/Kg
86-73-7	Fluorene	940		59.2	120	ug/Kg
100-01-6	4-Nitroaniline	970		74.0	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		80.9	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	980		56.5	120	ug/Kg
103-33-3	Azobenzene	1000		55.1	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000		54.6	120	ug/Kg
118-74-1	Hexachlorobenzene	980		58.8	120	ug/Kg
1912-24-9	Atrazine	1200		63.2	120	ug/Kg
87-86-5	Pentachlorophenol	1900	E	53.5	230	ug/Kg
85-01-8	Phenanthrene	960		58.1	120	ug/Kg
120-12-7	Anthracene	1000		58.4	120	ug/Kg
86-74-8	Carbazole	910		55.6	120	ug/Kg

Raw Data: **BF140057.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	1000		58.3	120	ug/Kg
206-44-0	Fluoranthene	870		56.5	120	ug/Kg
92-87-5	Benzidine	1200		110	230	ug/Kg
129-00-0	Pyrene	970		57.4	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.0	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	520		68.2	230	ug/Kg
56-55-3	Benzo(a)anthracene	990		55.8	120	ug/Kg
218-01-9	Chrysene	950		55.0	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		63.0	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1200		76.1	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	920		56.1	120	ug/Kg
207-08-9	Benzo(k)fluoranthene	1000		57.1	120	ug/Kg
50-32-8	Benzo(a)pyrene	1100		64.3	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	880		54.0	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	890		56.2	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	740		55.4	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	960		60.1	120	ug/Kg
123-91-1	1,4-Dioxane	890		76.1	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000		51.7	120	ug/Kg
90-12-0	1-Methylnaphthalene	930		57.6	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.8		18 - 112	61%	SPK: 150
13127-88-3	Phenol-d6	91.2		15 - 107	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.4		18 - 107	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.5		20 - 109	61%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 116	71%	SPK: 150
1718-51-0	Terphenyl-d14	68.7		10 - 105	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	142000	6.887			
1146-65-2	Naphthalene-d8	557000	8.169			

Raw Data: **BF140057.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	317000	9.928			
1517-22-2	Phenanthrene-d10	543000	11.416			
1719-03-5	Chrysene-d12	261000	14.051			
1520-96-3	Perylene-d12	285000	15.527			

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: **BF140057.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140057.D
Acq On : 26 Oct 2024 13:58
Operator : RC/JU
Sample : P4547-05MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 28 01:07:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	141513	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	556548	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	317233	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	543034	20.000	ng	0.00
76) Chrysene-d12	14.051	240	260710	20.000	ng	0.00
86) Perylene-d12	15.527	264	285198	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	820534	90.772	ng	0.02
7) Phenol-d6	6.516	99	1067394	91.171	ng	0.00
23) Nitrobenzene-d5	7.451	82	666477	66.371	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	315066	106.179	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1180147	61.482	ng	0.00
79) Terphenyl-d14	12.998	244	1098755	68.674	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.787	88	163481	38.789	ng	96
3) Pyridine	3.534	79	421487	40.346	ng	96
4) n-Nitrosodimethylamine	3.487	42	229191	40.833	ng	99
6) Aniline	6.551	93	269365	24.687	ng	98
8) 2-Chlorophenol	6.675	128	399582	43.239	ng	97
9) Benzaldehyde	6.440	77	80183	12.174	ng	98
10) Phenol	6.528	94	505299m	41.864	ng	
11) bis(2-Chloroethyl)ether	6.622	93	381599	40.903	ng	99
12) 1,3-Dichlorobenzene	6.834	146	427655	40.314	ng	98
13) 1,4-Dichlorobenzene	6.910	146	433619	40.914	ng	99
14) 1,2-Dichlorobenzene	7.057	146	421547	42.618	ng	98
15) Benzyl Alcohol	7.028	79	374711	43.632	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	628563	39.513	ng	97
17) 2-Methylphenol	7.140	107	332765	42.229	ng	98
18) Hexachloroethane	7.404	117	157555	41.689	ng	95
19) n-Nitroso-di-n-propyla...	7.304	70	291673	41.077	ng	95
20) 3+4-Methylphenols	7.287	107	411024	40.780	ng	91
22) Acetophenone	7.298	105	546224	40.070	ng	99
24) Nitrobenzene	7.469	77	444845	40.405	ng	100
25) Isophorone	7.710	82	806462	42.314	ng	99
26) 2-Nitrophenol	7.787	139	212287	51.111	ng	96
27) 2,4-Dimethylphenol	7.822	122	334505	48.299	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	475584	41.186	ng	100
29) 2,4-Dichlorophenol	8.028	162	337939	42.839	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	351789	40.302	ng	99
31) Naphthalene	8.192	128	1167784	40.685	ng	100
32) Benzoic acid	7.934	122	233878	38.718	ng	99
33) 4-Chloroaniline	8.234	127	71391	7.294	ng	98
34) Hexachlorobutadiene	8.310	225	229130	41.779	ng	98
35) Caprolactam	8.610	113	107918m	43.025	ng	
36) 4-Chloro-3-methylphenol	8.716	107	376264	43.076	ng	99
37) 2-Methylnaphthalene	8.886	142	746283	42.453	ng	100
38) 1-Methylnaphthalene	8.986	142	692977	40.179	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	357398	41.760	ng	99
41) Hexachlorocyclopentadiene	9.039	237	397201	133.382	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	263544	43.494	ng	99

Sample Results: **BF140057.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140057.D
Acq On : 26 Oct 2024 13:58
Operator : RC/JU
Sample : P4547-05MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

Quant Time: Oct 28 01:07:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	261831	41.883	ng		97
46) 1,1'-Biphenyl	9.351	154	897739	40.651	ng		99
47) 2-Chloronaphthalene	9.375	162	722337	40.611	ng		100
48) 2-Nitroaniline	9.469	65	247740	45.541	ng		92
49) Acenaphthylene	9.792	152	1115565	43.383	ng		99
50) Dimethylphthalate	9.651	163	848076	42.919	ng		100
51) 2,6-Dinitrotoluene	9.710	165	187243	43.765	ng		98
52) Acenaphthene	9.963	154	771182	46.360	ng		99
53) 3-Nitroaniline	9.875	138	83523	18.931	ng		97
54) 2,4-Dinitrophenol	9.986	184	181712	100.411	ng	#	1
55) Dibenzofuran	10.133	168	987172	41.362	ng		99
56) 4-Nitrophenol	10.033	139	284342	83.767	ng		97
57) 2,4-Dinitrotoluene	10.116	165	252272	47.949	ng		98
58) Fluorene	10.480	166	741599	40.796	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	215904	44.055	ng		98
60) Diethylphthalate	10.351	149	822061	42.372	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	386856	42.141	ng		99
62) 4-Nitroaniline	10.492	138	176142	42.270	ng		98
63) Azobenzene	10.628	77	922575	44.854	ng		96
65) 4,6-Dinitro-2-methylph...	10.522	198	132583	59.857	ng		91
66) n-Nitrosodiphenylamine	10.586	169	692666	42.618	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	248603	44.439	ng		97
68) Hexachlorobenzene	11.022	284	268605	42.692	ng		99
69) Atrazine	11.110	200	226459	51.437	ng		99
70) Pentachlorophenol	11.216	266	307411	80.506	ng		100
71) Phenanthrene	11.439	178	1063947	41.478	ng		100
72) Anthracene	11.492	178	1103909	44.109	ng		99
73) Carbazole	11.645	167	917821	39.433	ng		99
74) Di-n-butylphthalate	11.974	149	1182778	43.984	ng		100
75) Fluoranthene	12.627	202	983519	37.929	ng		99
77) Benzidine	12.745	184	230453	53.757	ng		99
78) Pyrene	12.857	202	962217	42.164	ng		100
80) Butylbenzylphthalate	13.469	149	378474	55.318	ng		98
81) Benzo(a)anthracene	14.039	228	726535	42.809	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	110608	22.353	ng		99
83) Chrysene	14.080	228	637684	40.980	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	475998	62.011	ng		100
85) Di-n-octyl phthalate	14.645	149	747779	53.559	ng		97
87) Indeno(1,2,3-cd)pyrene	17.027	276	702784	38.304	ng		98
88) Benzo(b)fluoranthene	15.098	252	691475	39.802	ng		99
89) Benzo(k)fluoranthene	15.127	252	677714	45.233	ng		99
90) Benzo(a)pyrene	15.468	252	662337	46.333	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	588503	38.449	ng		98
92) Benzo(g,h,i)perylene	17.480	276	492985	32.245	ng		98

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

Sample Results: **BF140057.D**

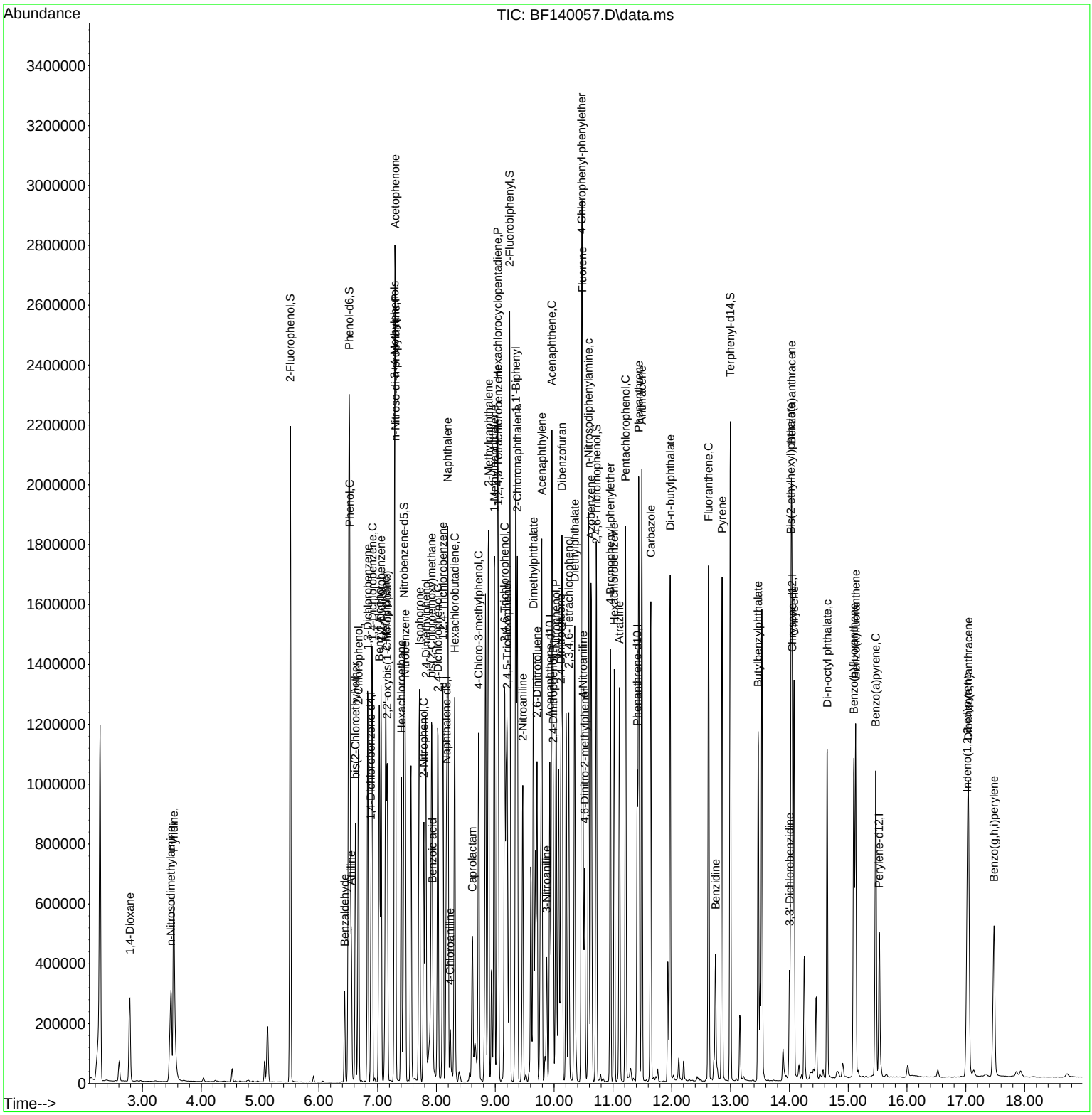
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140057.D
Acq On : 26 Oct 2024 13:58
Operator : RC/JU
Sample : P4547-05MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

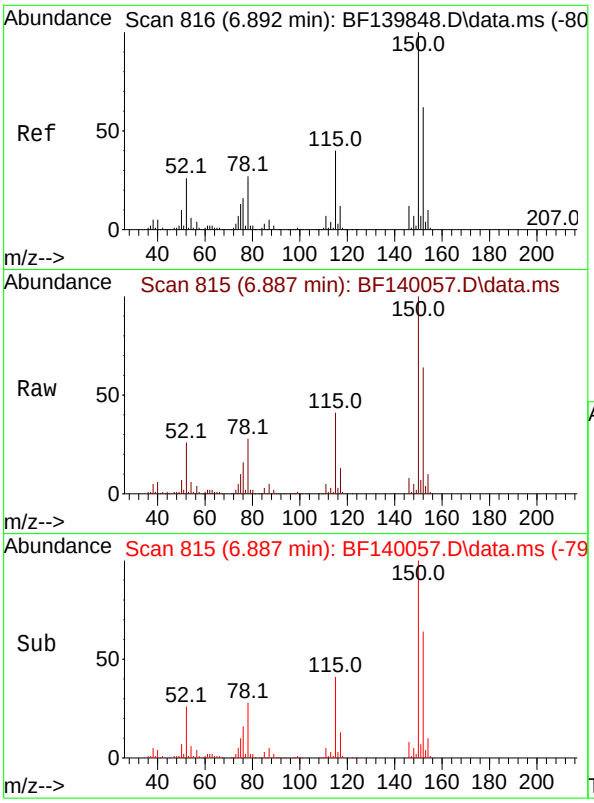
Quant Time: Oct 28 01:07:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

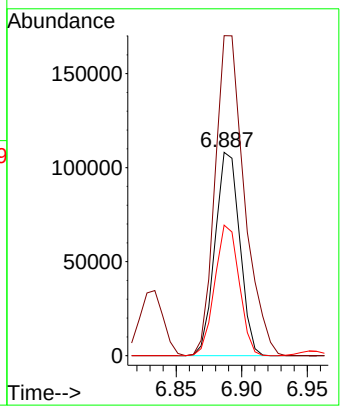




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:152 Resp: 14151

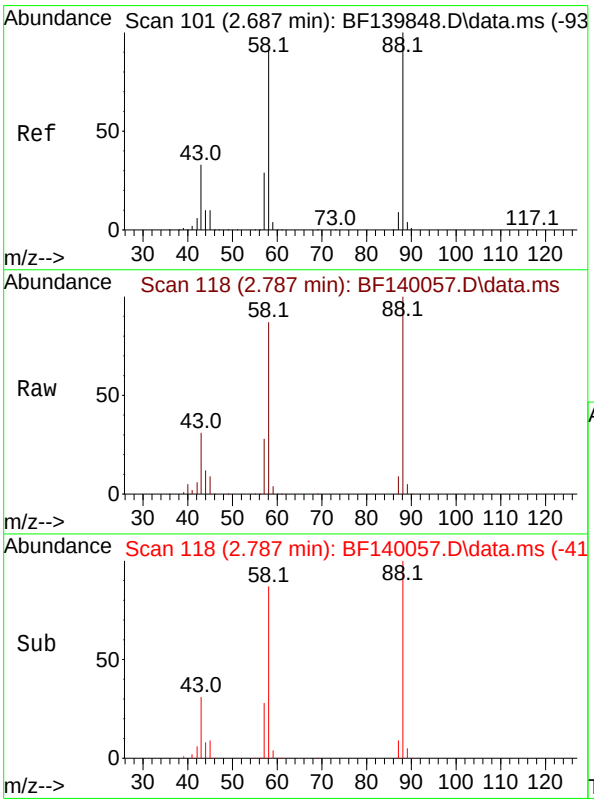
Ion	Ratio	Lower	Upper
152	100		
150	157.3	130.2	195.2
115	64.1	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

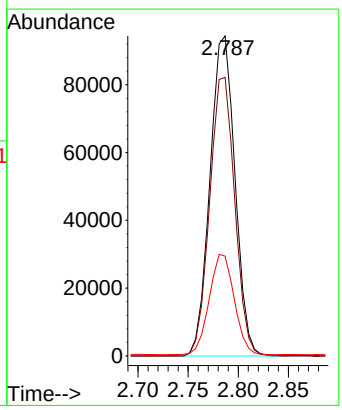
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

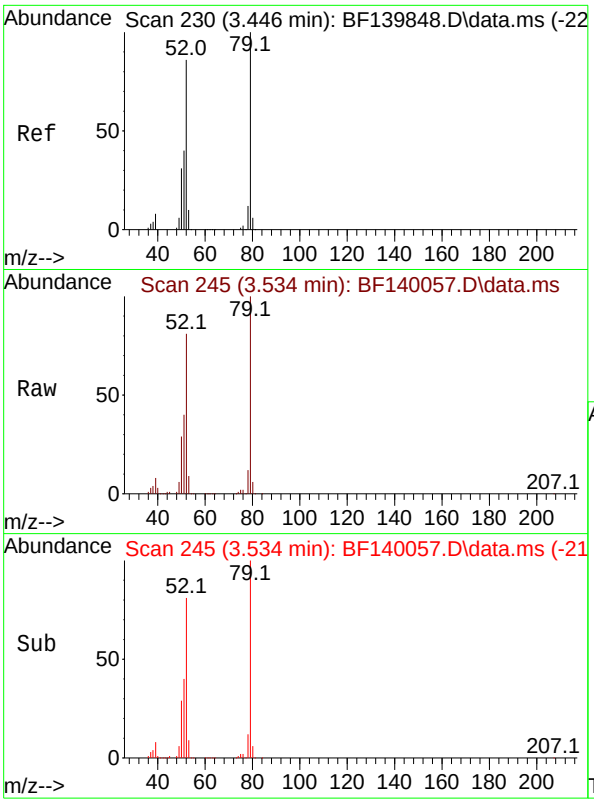


#2
1,4-Dioxane
Concen: 38.789 ng
RT: 2.787 min Scan# 118
Delta R.T. 0.100 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 88 Resp: 163481

Ion	Ratio	Lower	Upper
88	100		
58	87.4	73.3	109.9
43	31.3	27.1	40.7

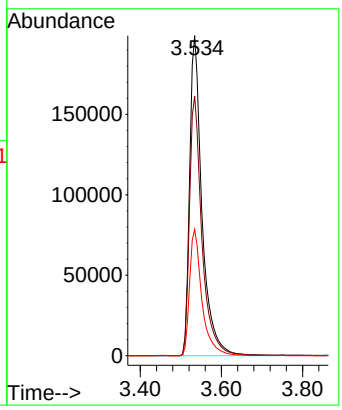




#3
Pyridine
Concen: 40.346 ng
RT: 3.534 min Scan# 2
Delta R.T. 0.088 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 79 Resp: 42148

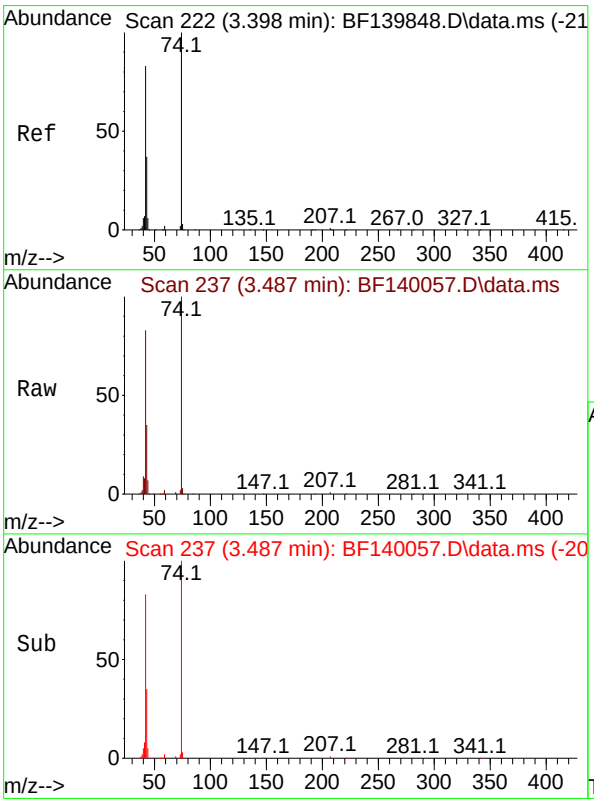
Ion	Ratio	Lower	Upper
79	100		
52	81.1	68.5	102.7
51	39.5	32.3	48.5



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

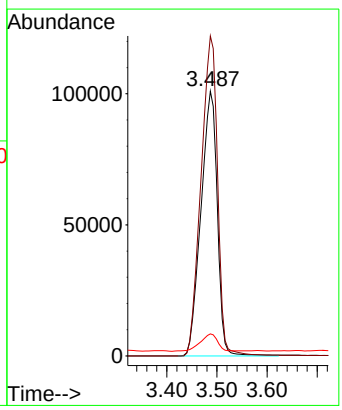
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

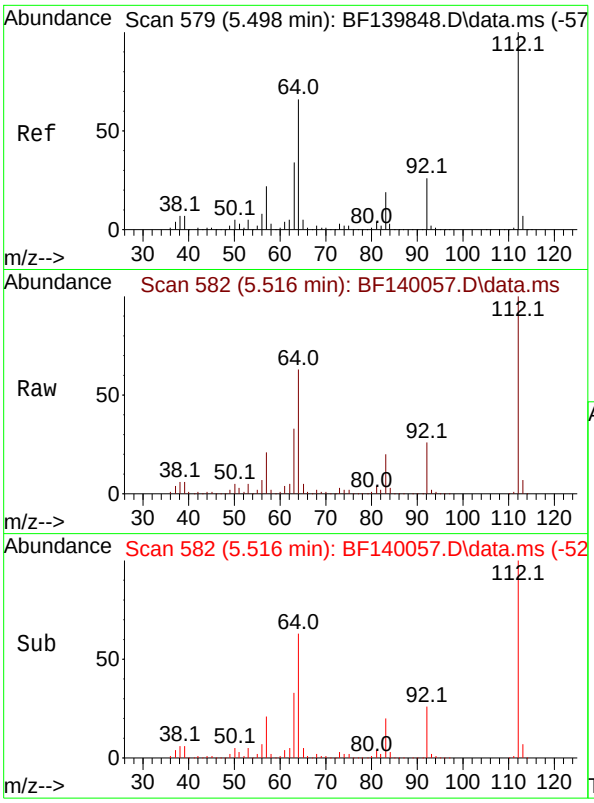


#4
n-Nitrosodimethylamine
Concen: 40.833 ng
RT: 3.487 min Scan# 237
Delta R.T. 0.088 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 42 Resp: 229191

Ion	Ratio	Lower	Upper
42	100		
74	120.9	96.2	144.4
44	8.3	6.2	9.2





#5
2-Fluorophenol
Concen: 90.772 ng
RT: 5.516 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

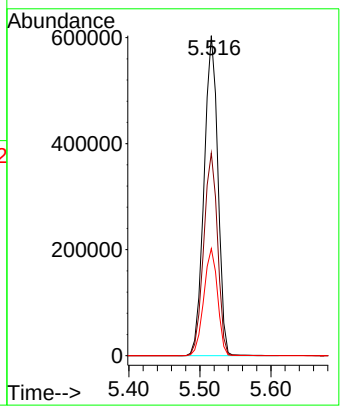
Tgt Ion:112 Resp: 82053

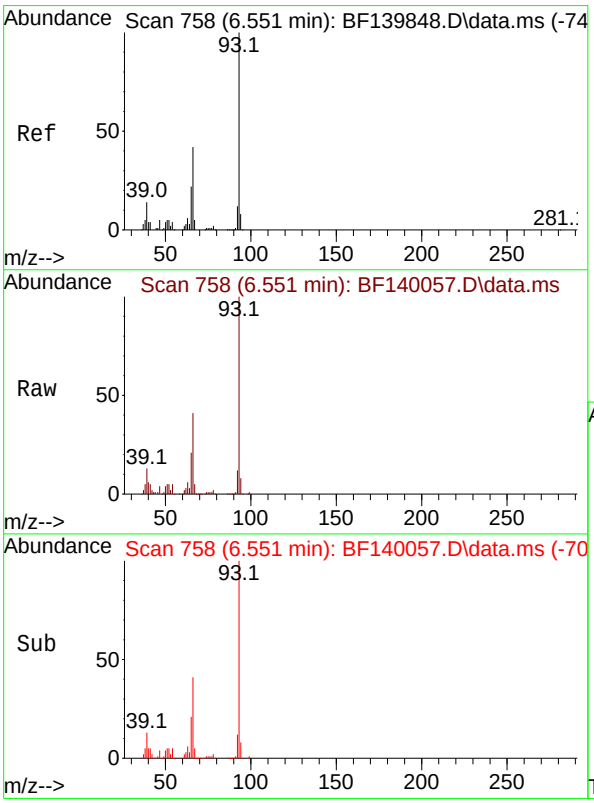
Ion	Ratio	Lower	Upper
112	100		
64	63.3	53.0	79.6
63	33.4	27.0	40.4

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

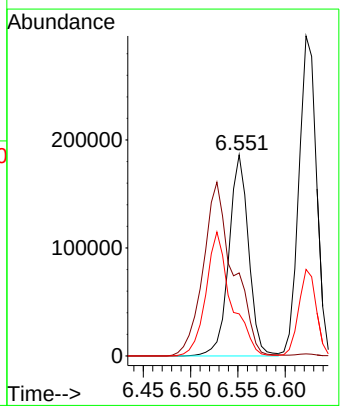


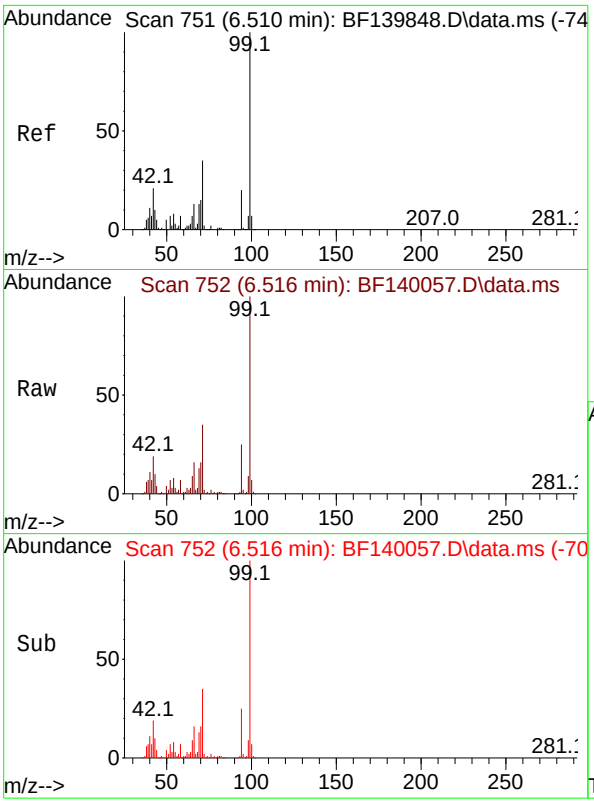


#6
Aniline
Concen: 24.687 ng
RT: 6.551 min Scan# 758
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 93 Resp: 269365

Ion	Ratio	Lower	Upper
93	100		
66	41.3	34.0	51.0
65	20.9	17.4	26.0





#7
Phenol-d6
Concen: 91.171 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

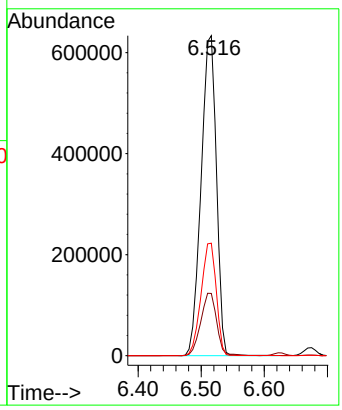
Tgt Ion: 99 Resp: 106739

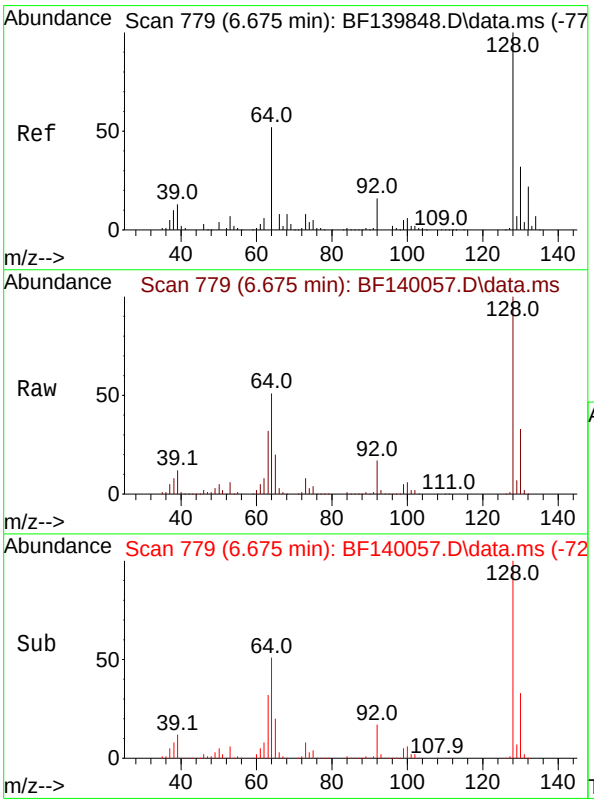
Ion	Ratio	Lower	Upper
99	100		
42	19.4	16.7	25.1
71	35.2	27.7	41.5

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

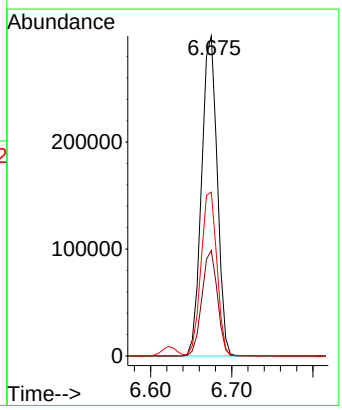


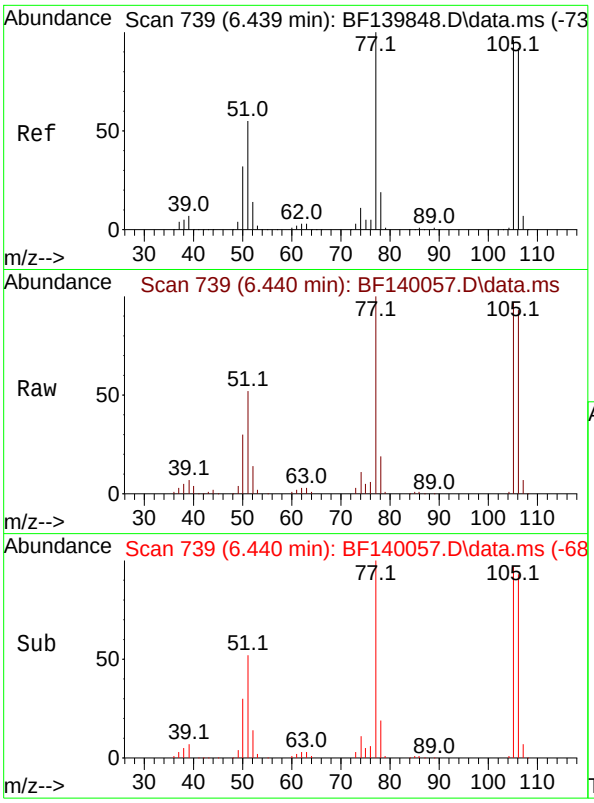


#8
2-Chlorophenol
Concen: 43.239 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:128 Resp: 399582

Ion	Ratio	Lower	Upper
128	100		
130	33.0	12.3	52.3
64	51.2	34.6	74.6

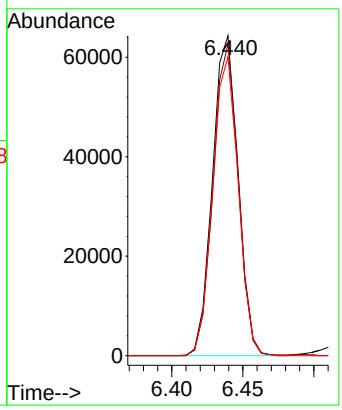




#9
Benzaldehyde
Concen: 12.174 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 77 Resp: 8018

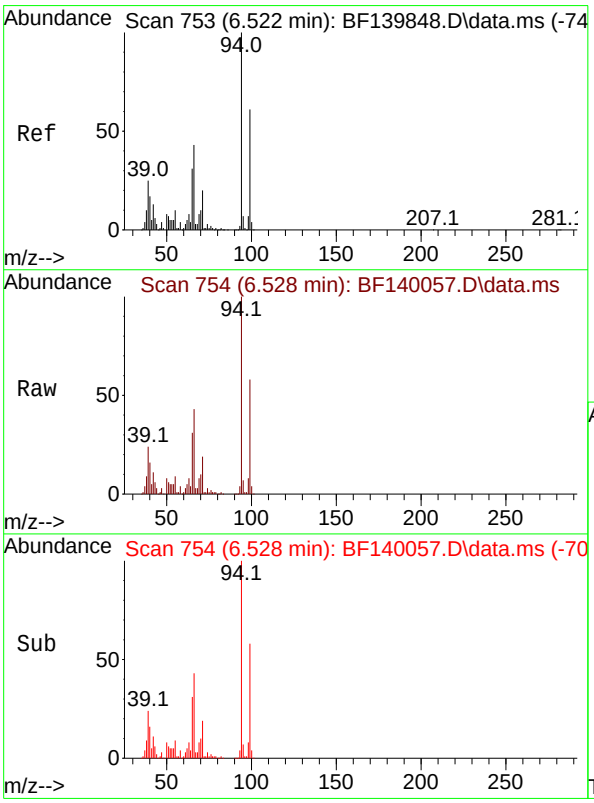
Ion	Ratio	Lower	Upper
77	100		
105	97.4	75.5	115.5
106	93.4	71.7	111.7



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

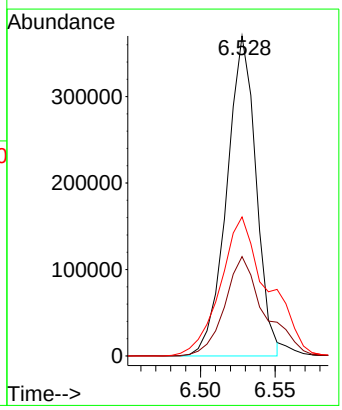
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

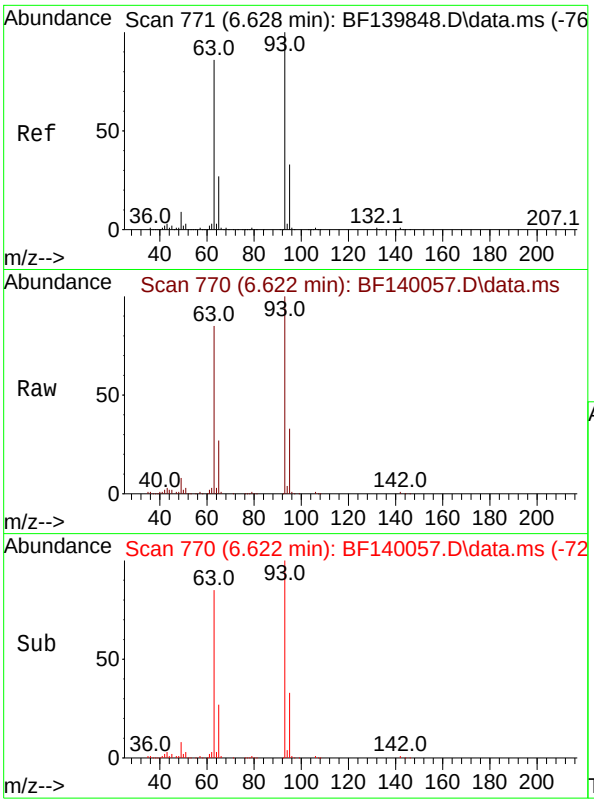


#10
Phenol
Concen: 41.864 ng m
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 94 Resp: 505299

Ion	Ratio	Lower	Upper
94	100		
65	31.0	11.1	51.1
66	43.5	22.7	62.7





#11
bis(2-Chloroethyl)ether
Concen: 40.903 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

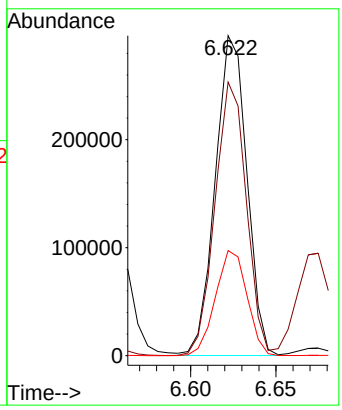
Tgt Ion: 93 Resp: 38159

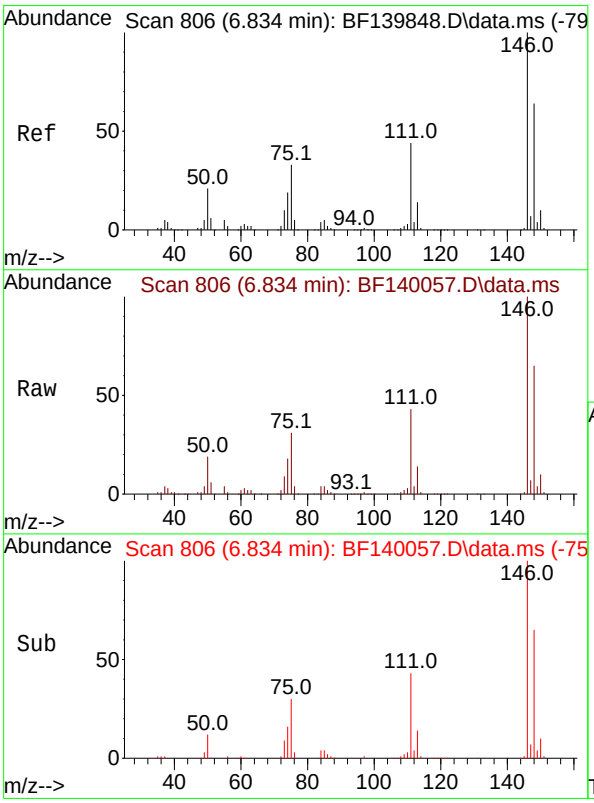
Ion	Ratio	Lower	Upper
93	100		
63	85.5	65.0	105.0
95	32.8	12.4	52.4

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

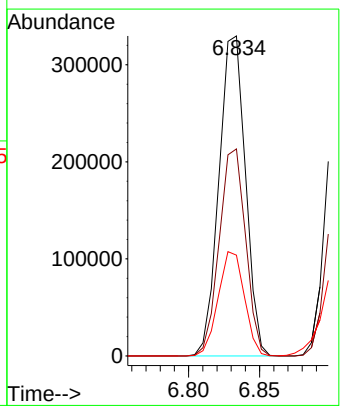


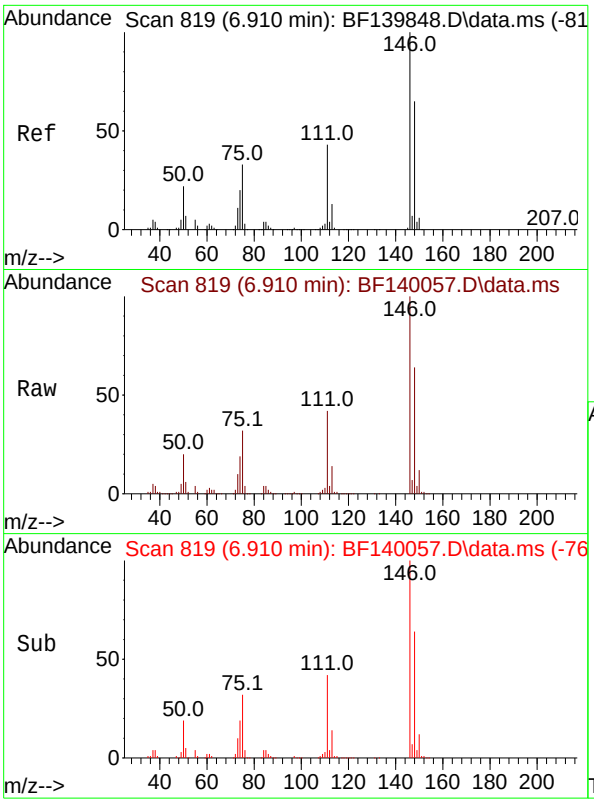


#12
1,3-Dichlorobenzene
Concen: 40.314 ng
RT: 6.834 min Scan# 806
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:146 Resp: 427655

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.0	76.4
75	31.5	26.4	39.6

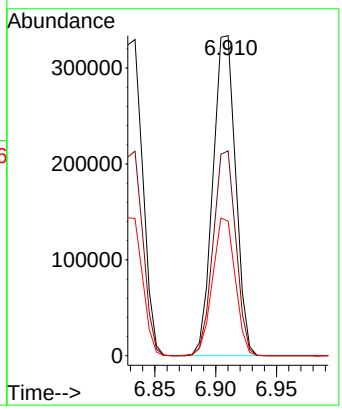




#13
1,4-Dichlorobenzene
Concen: 40.914 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:146 Resp: 43361

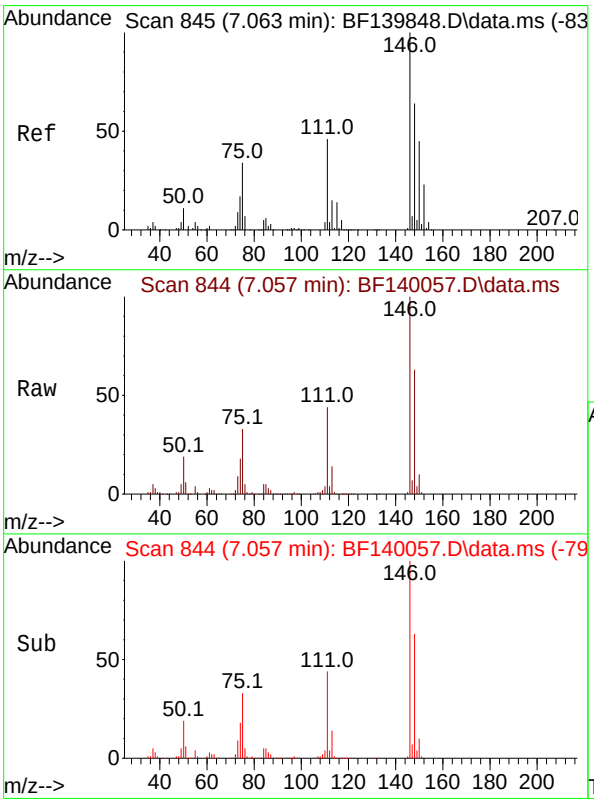
Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.8	77.8
111	42.0	34.6	51.8



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

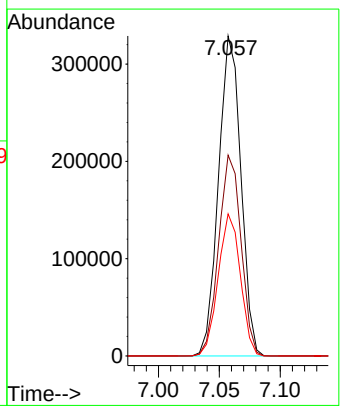
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

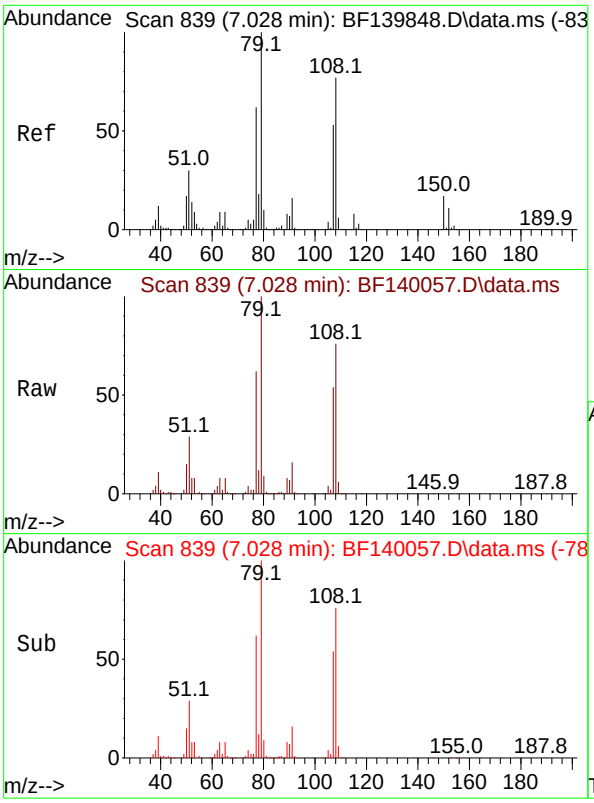


#14
1,2-Dichlorobenzene
Concen: 42.618 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:146 Resp: 421547

Ion	Ratio	Lower	Upper
146	100		
148	62.8	51.4	77.2
111	44.4	36.7	55.1





#15
Benzyl Alcohol
Concen: 43.632 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

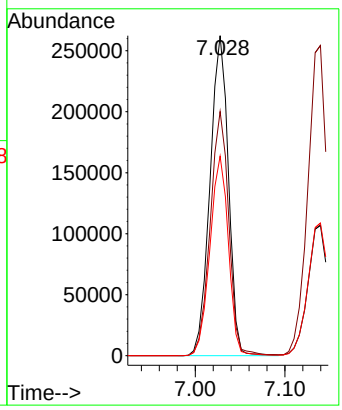
Tgt Ion: 79 Resp: 37471

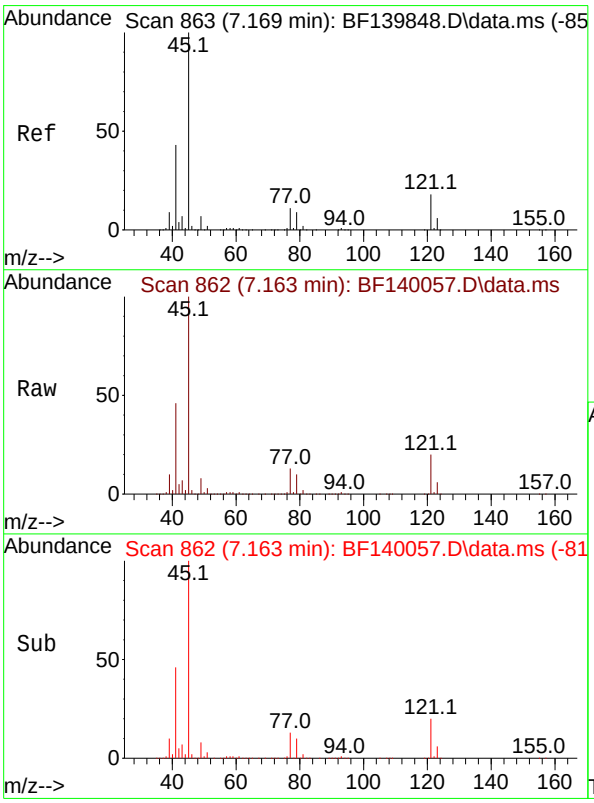
Ion	Ratio	Lower	Upper
79	100		
108	76.3	61.4	92.0
77	62.4	49.9	74.9

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

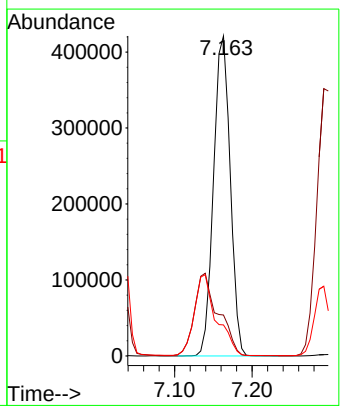


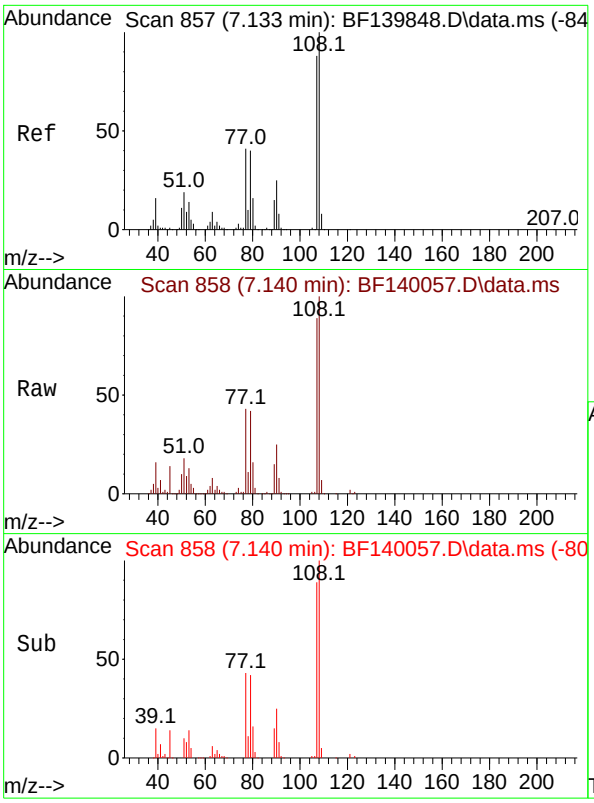


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.513 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 45 Resp: 628563

Ion	Ratio	Lower	Upper
45	100		
77	12.8	0.0	31.5
79	9.7	0.0	29.1

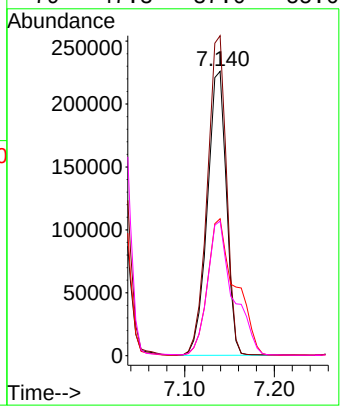




#17
2-Methylphenol
Concen: 42.229 ng
RT: 7.140 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:107 Resp: 33276

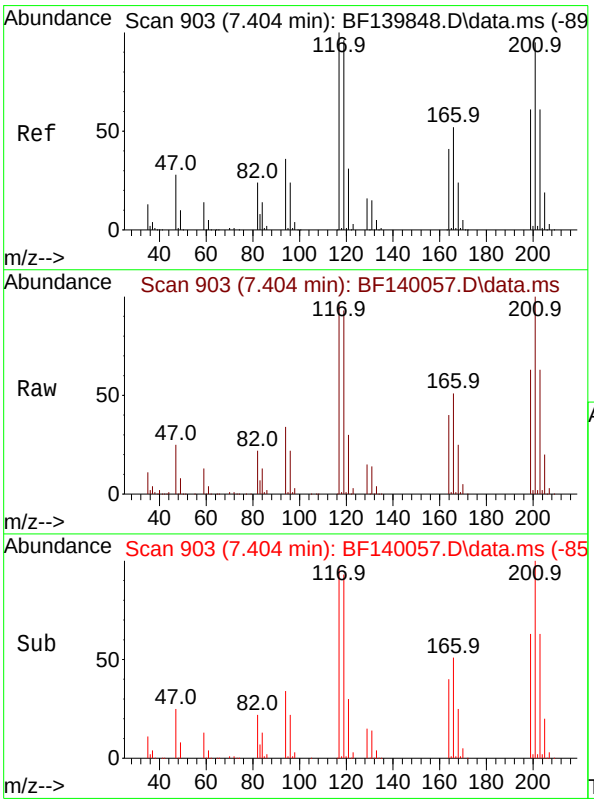
Ion	Ratio	Lower	Upper
107	100		
108	112.5	91.3	136.9
77	48.1	37.1	55.7
79	47.3	37.0	55.6



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

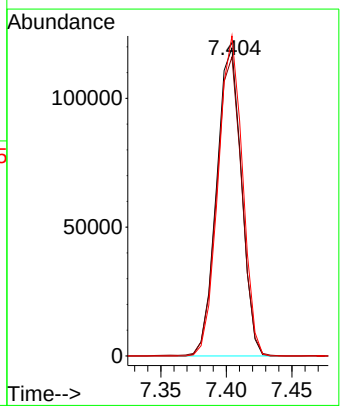
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

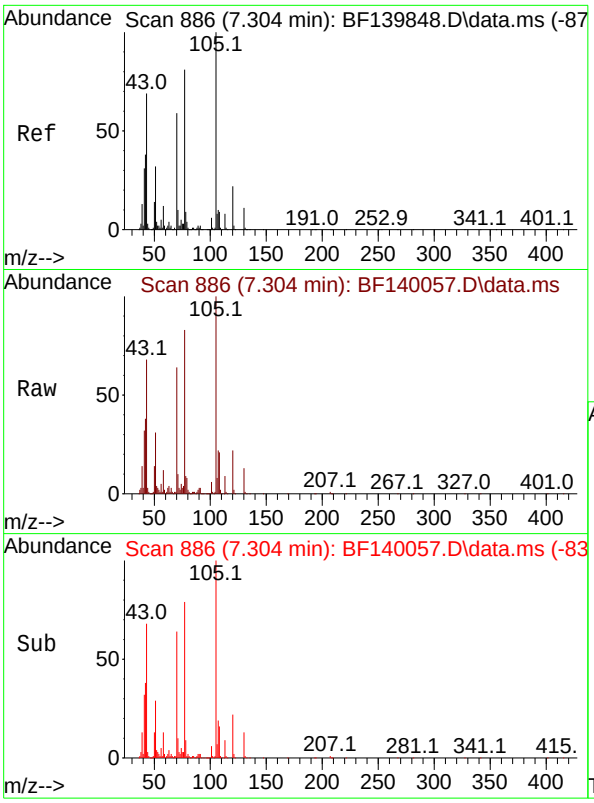


#18
Hexachloroethane
Concen: 41.689 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:117 Resp: 157555

Ion	Ratio	Lower	Upper
117	100		
119	97.1	77.0	115.4
201	103.9	76.2	114.4

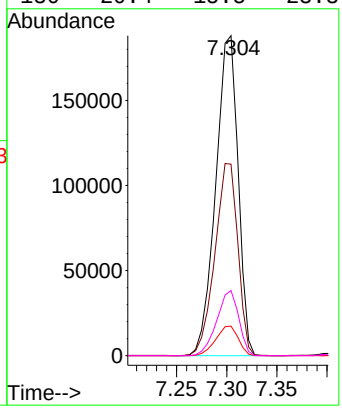




#19
n-Nitroso-di-n-propylamine
Concen: 41.077 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 70 Resp: 29167

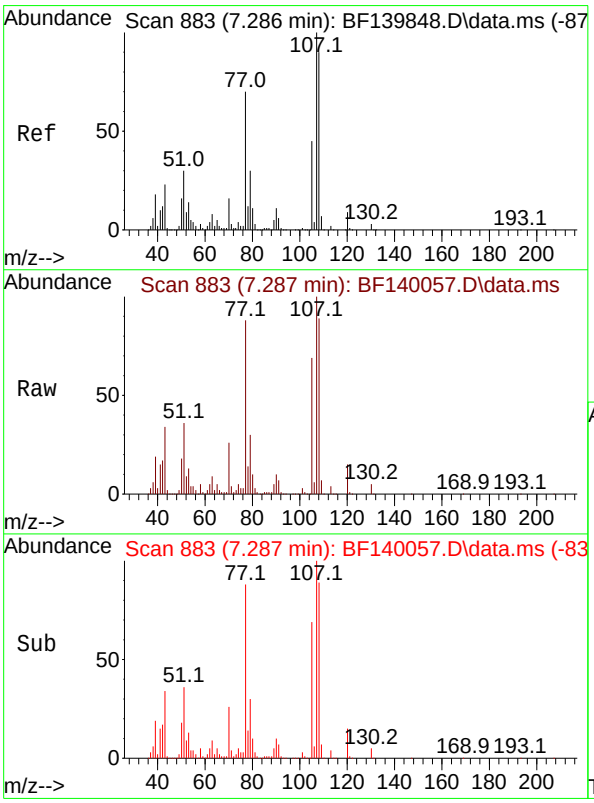
Ion	Ratio	Lower	Upper
70	100		
42	59.8	51.5	77.3
101	9.2	7.5	11.3
130	20.4	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

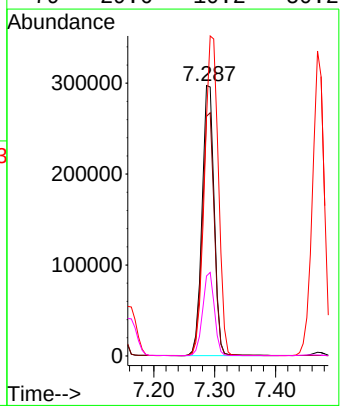
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

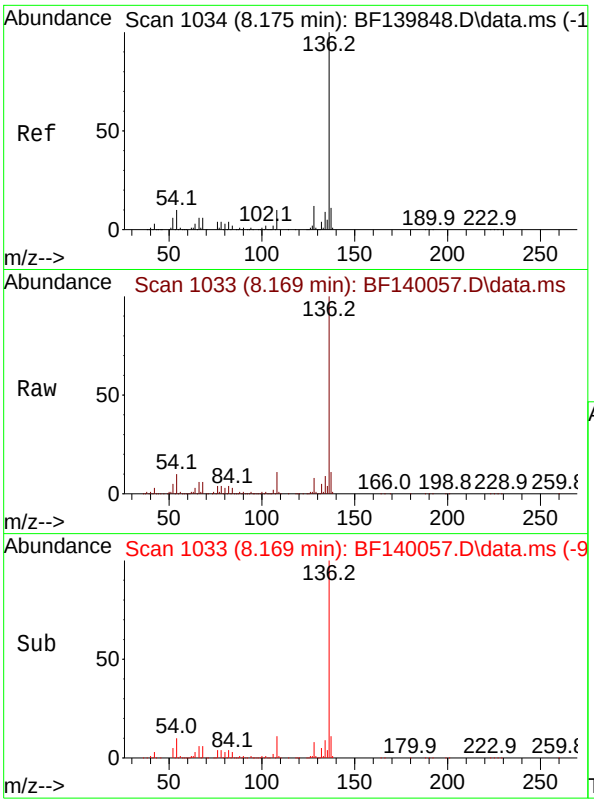


#20
3+4-Methylphenols
Concen: 40.780 ng
RT: 7.287 min Scan# 883
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:107 Resp: 411024

Ion	Ratio	Lower	Upper
107	100		
108	88.7	69.8	109.8
77	88.1	50.5	90.5
79	29.6	10.2	50.2

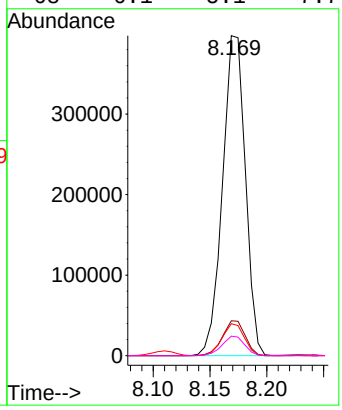




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:136 Resp: 55654

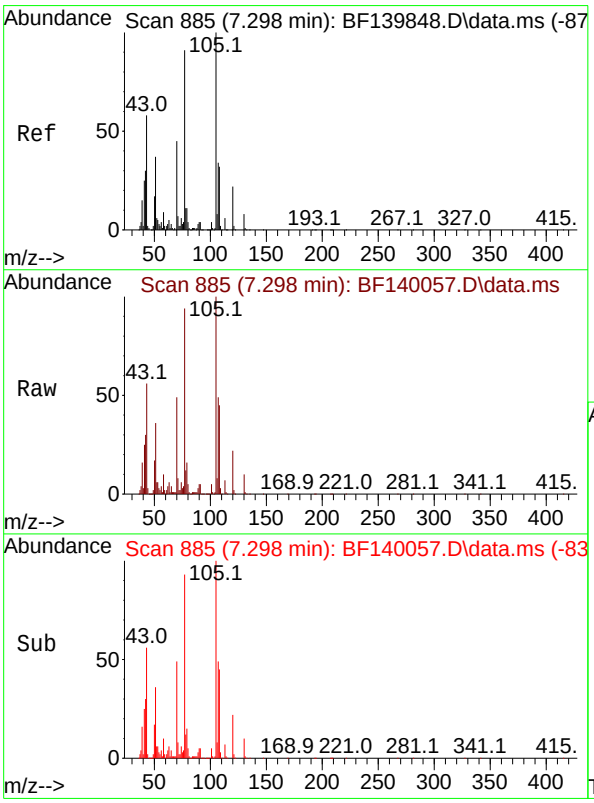
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.0	8.4	12.6
68	6.1	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

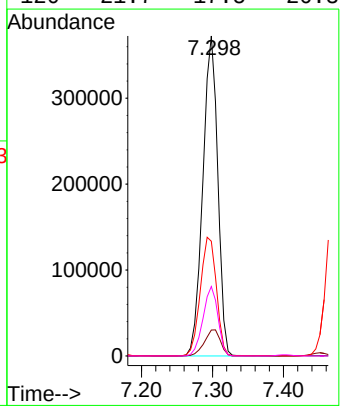
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

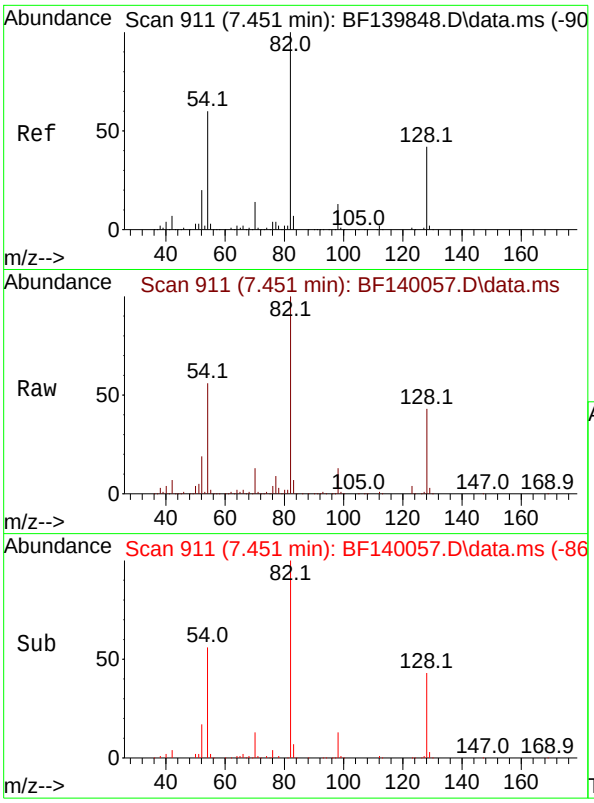


#22
Acetophenone
Concen: 40.070 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:105 Resp: 546224

Ion	Ratio	Lower	Upper
105	100		
71	8.1	5.9	8.9
51	35.9	29.4	44.2
120	21.7	17.5	26.3





#23
Nitrobenzene-d5
Concen: 66.371 ng
RT: 7.451 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

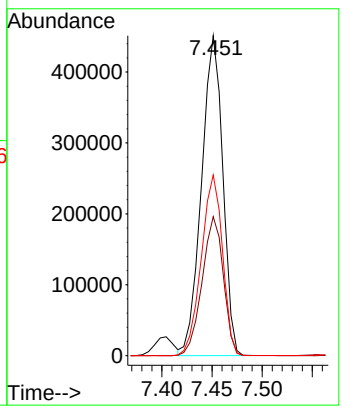
Tgt Ion: 82 Resp: 66647

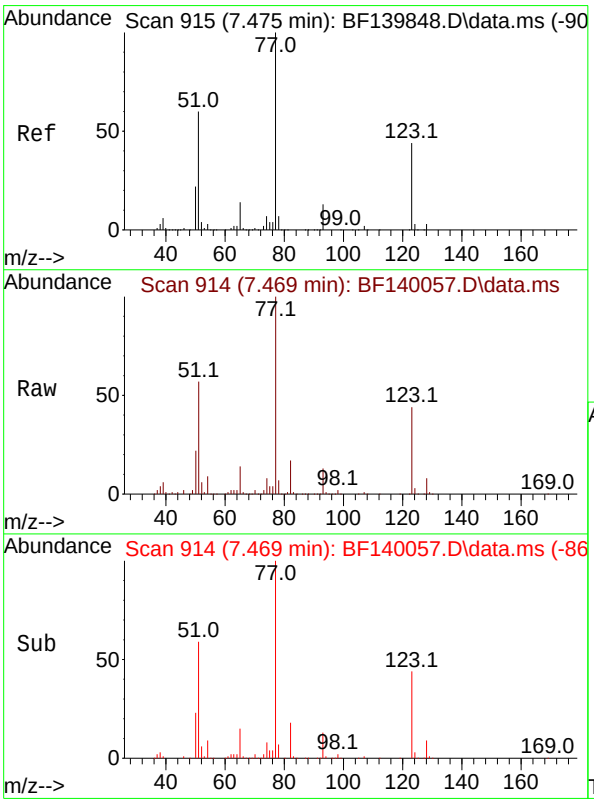
Ion	Ratio	Lower	Upper
82	100		
128	43.5	33.4	50.0
54	56.4	47.8	71.8

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

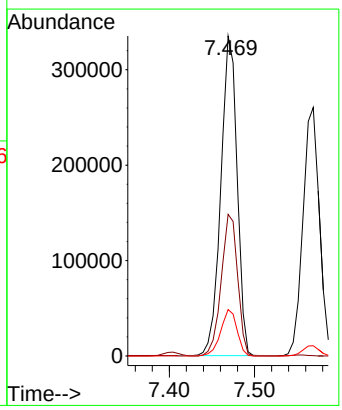


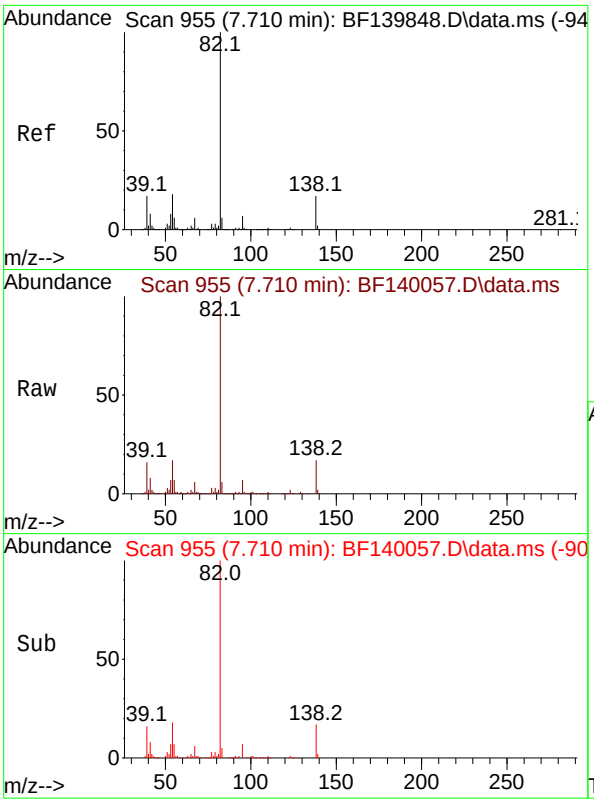


#24
Nitrobenzene
Concen: 40.405 ng
RT: 7.469 min Scan# 914
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 77 Resp: 444845

Ion	Ratio	Lower	Upper
77	100		
123	44.3	35.7	53.5
65	14.5	11.5	17.3





#25
Isophorone
Concen: 42.314 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

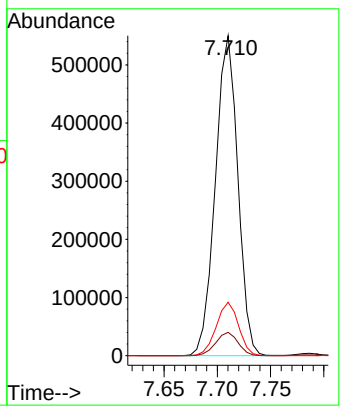
Tgt Ion: 82 Resp: 80646

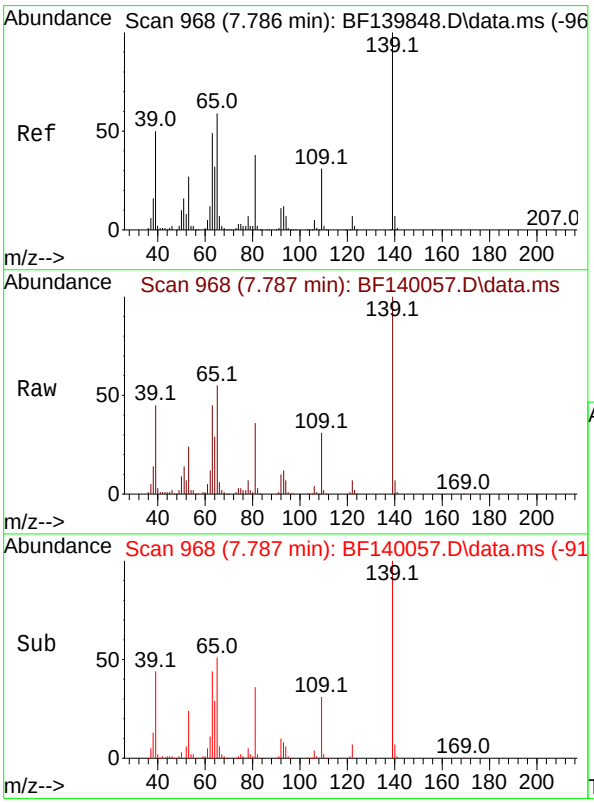
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.5	8.3
138	16.7	13.2	19.8

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

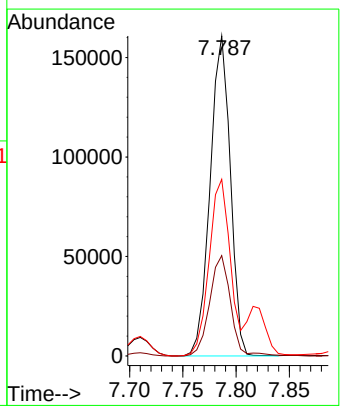


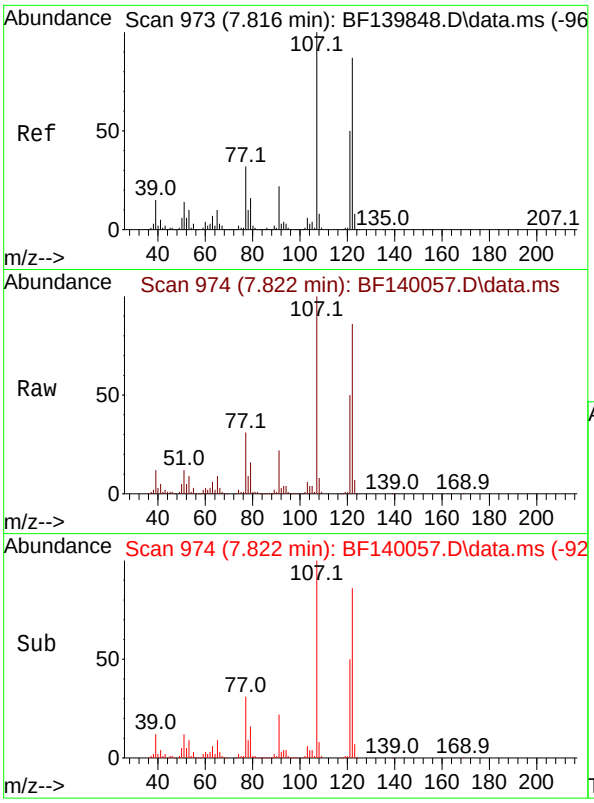


#26
2-Nitrophenol
Concen: 51.111 ng
RT: 7.787 min Scan# 968
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:139 Resp: 212287

Ion	Ratio	Lower	Upper
139	100		
109	31.3	25.1	37.7
65	55.2	47.5	71.3

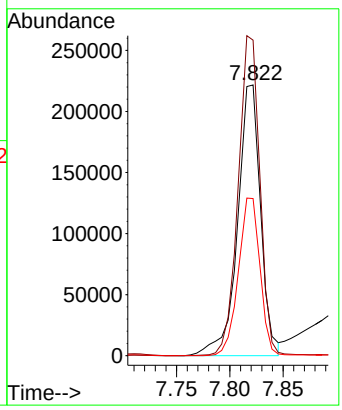




#27
2,4-Dimethylphenol
Concen: 48.299 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:122 Resp: 33450

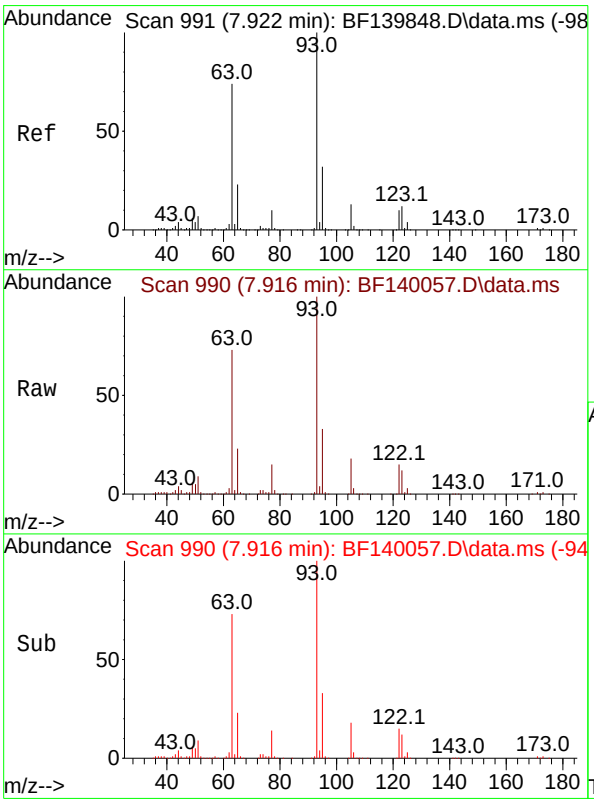
Ion	Ratio	Lower	Upper
122	100		
107	116.5	91.9	137.9
121	58.0	46.2	69.4



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

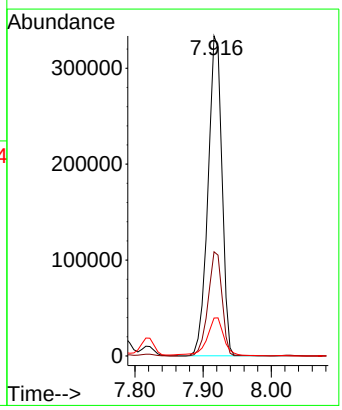
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

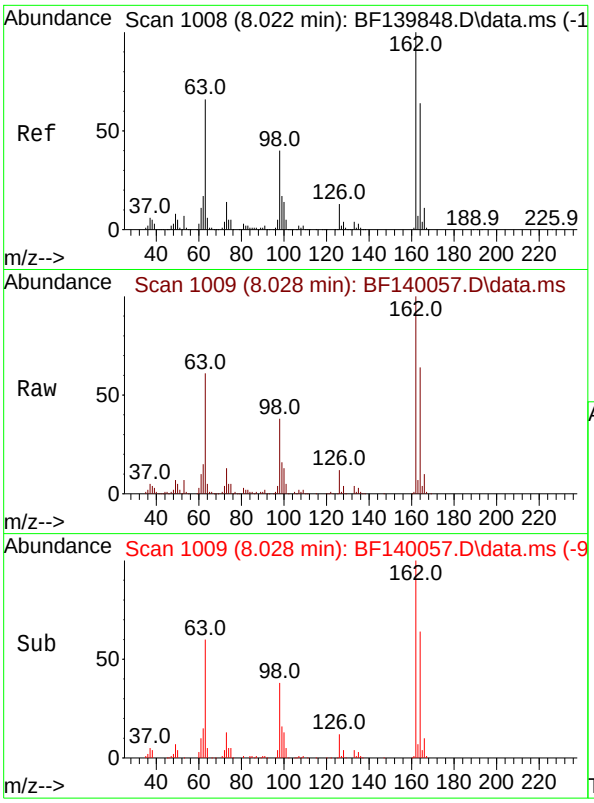


#28
bis(2-Chloroethoxy)methane
Concen: 41.186 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 93 Resp: 475584

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.0	39.0
123	11.9	9.8	14.8





#29
2,4-Dichlorophenol
Concen: 42.839 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

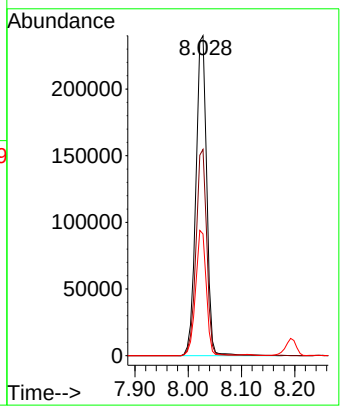
Tgt Ion:162 Resp: 33793

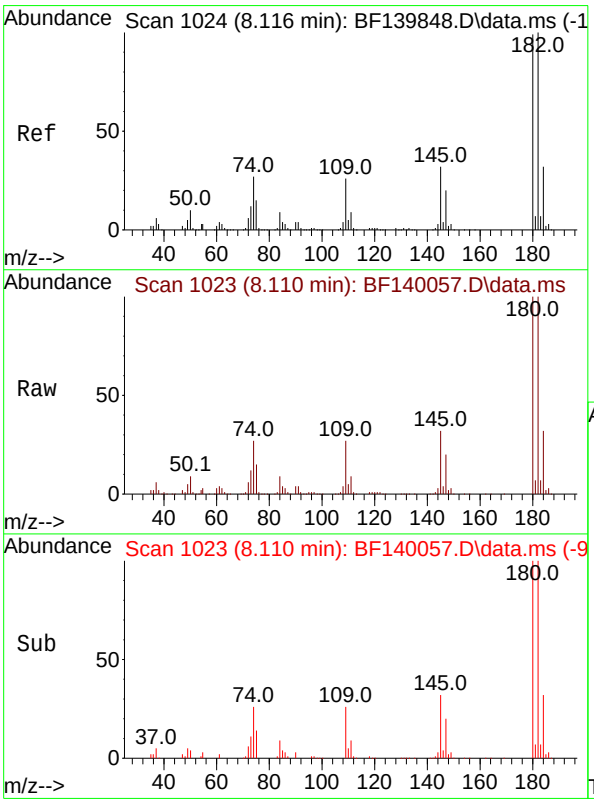
Ion	Ratio	Lower	Upper
162	100		
164	64.5	43.9	83.9
98	38.0	19.9	59.9

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

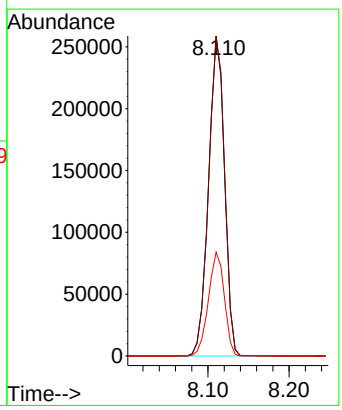


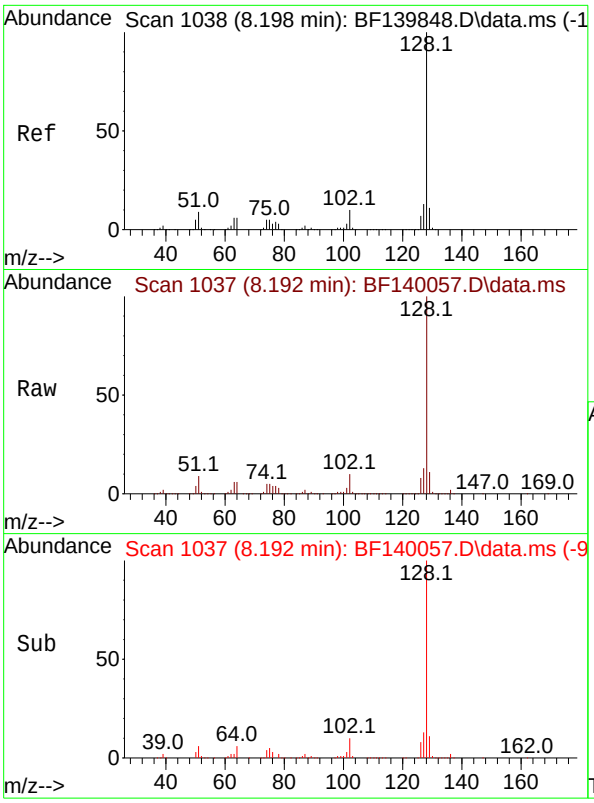


#30
1,2,4-Trichlorobenzene
Concen: 40.302 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:180 Resp: 351789

Ion	Ratio	Lower	Upper
180	100		
182	100.3	80.5	120.7
145	32.5	25.4	38.0





#31
Naphthalene
Concen: 40.685 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

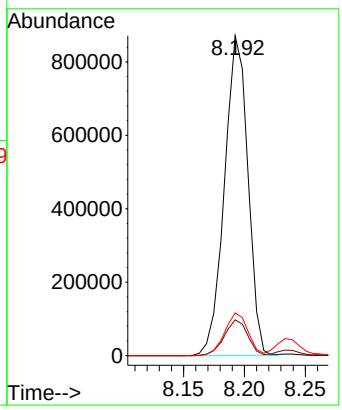
Tgt Ion:128 Resp: 116778

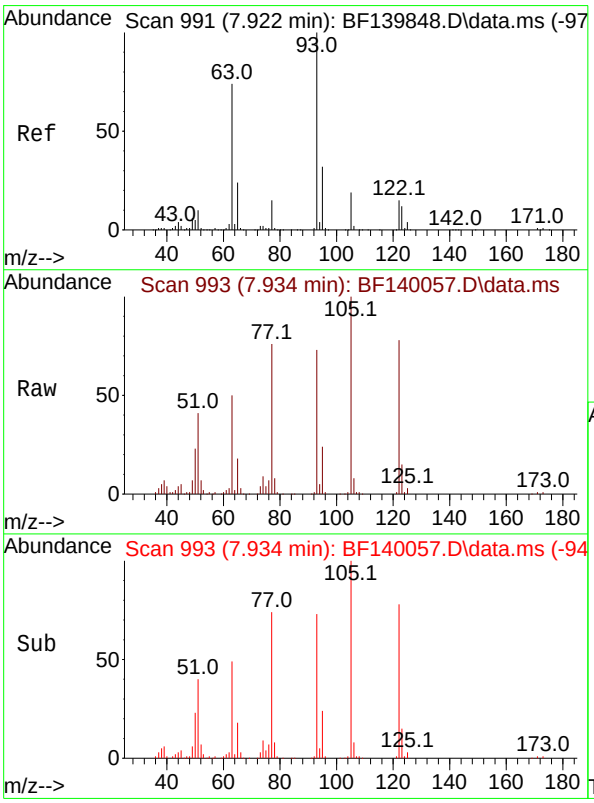
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.3	10.6	16.0

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

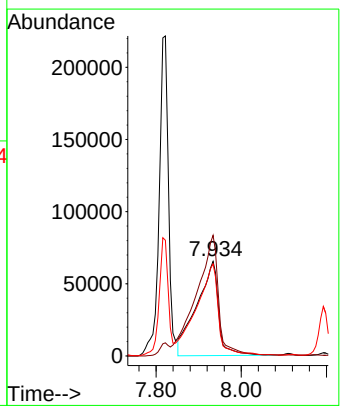


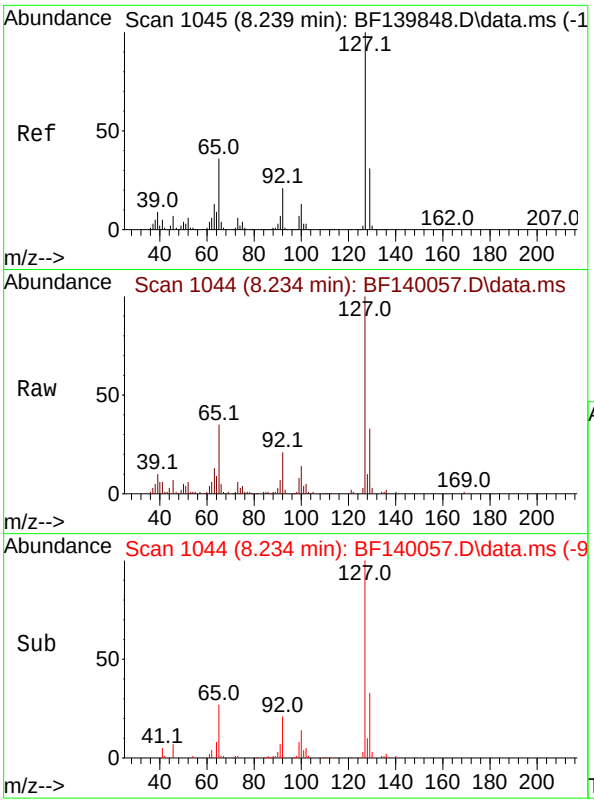


#32
Benzoic acid
Concen: 38.718 ng
RT: 7.934 min Scan# 993
Delta R.T. 0.012 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:122 Resp: 233878

Ion	Ratio	Lower	Upper
122	100		
105	127.5	107.6	147.6
77	97.3	80.2	120.2

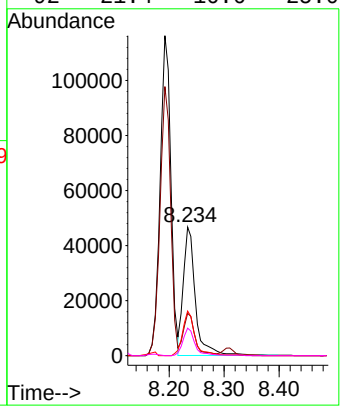




#33
4-Chloroaniline
Concen: 7.294 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:127 Resp: 7139

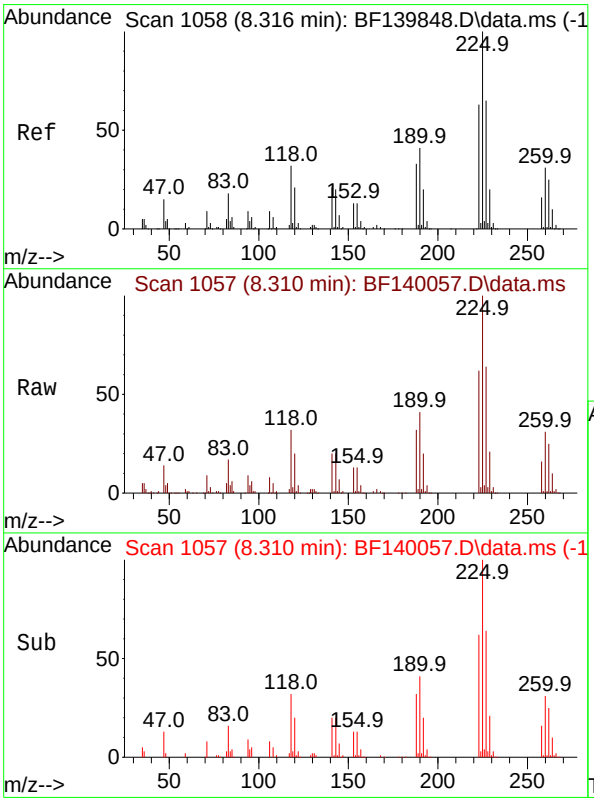
Ion	Ratio	Lower	Upper
127	100		
129	33.0	25.4	38.2
65	34.7	28.4	42.6
92	21.4	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

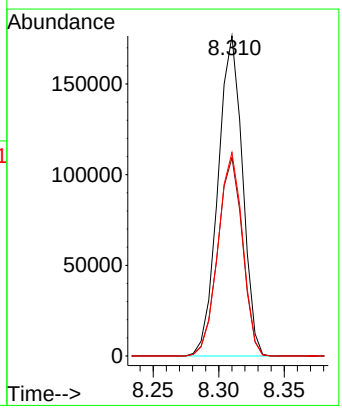
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

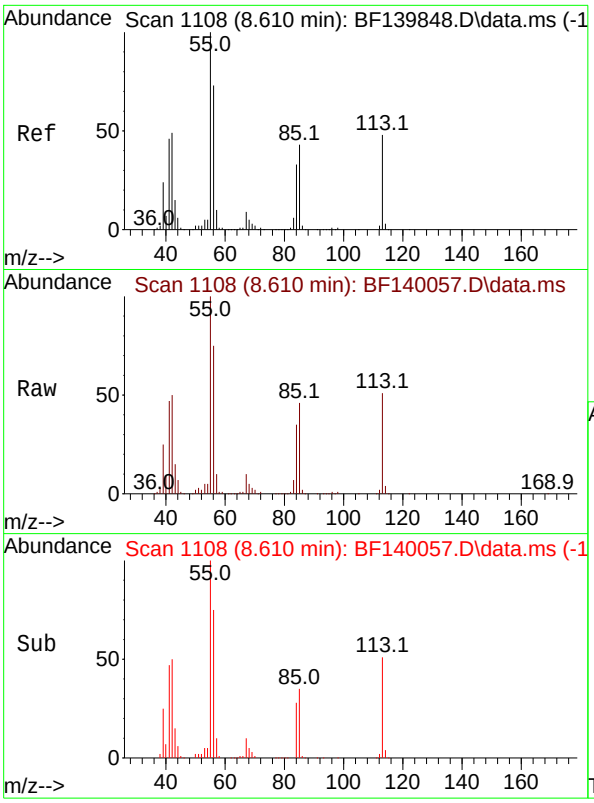


#34
Hexachlorobutadiene
Concen: 41.779 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:225 Resp: 229130

Ion	Ratio	Lower	Upper
225	100		
223	61.9	50.6	76.0
227	63.6	51.8	77.8

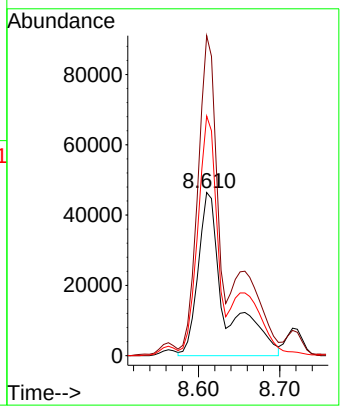




#35
Caprolactam
Concen: 43.025 ng m
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:113 Resp: 10791

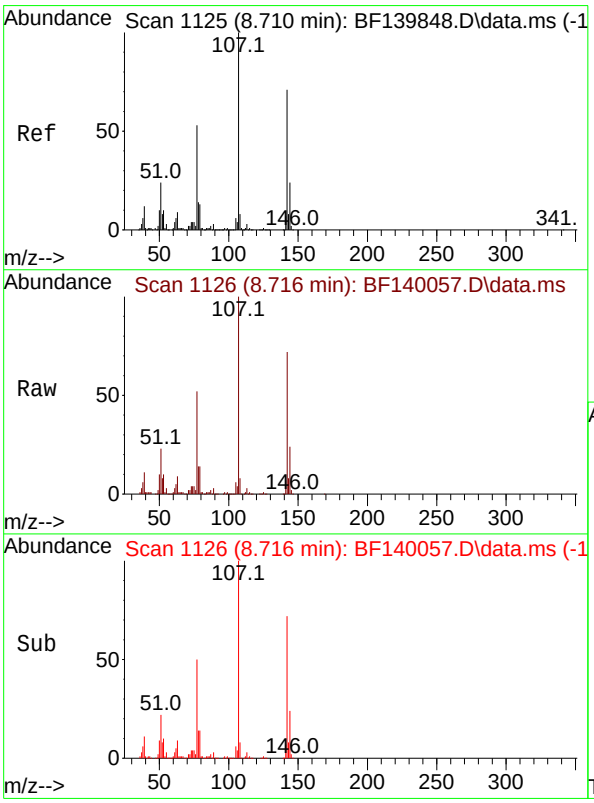
Ion	Ratio	Lower	Upper
113	100		
55	196.1	189.2	229.2
56	146.9	132.5	172.5



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

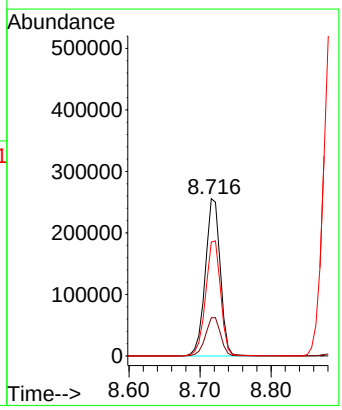
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

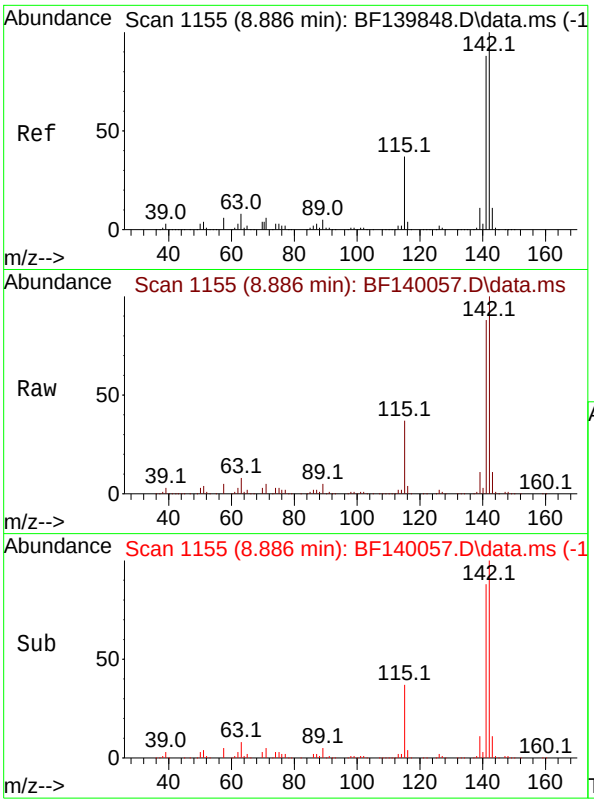


#36
4-Chloro-3-methylphenol
Concen: 43.076 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:107 Resp: 376264

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.1	28.7
142	72.5	57.2	85.8





#37
2-Methylnaphthalene
Concen: 42.453 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

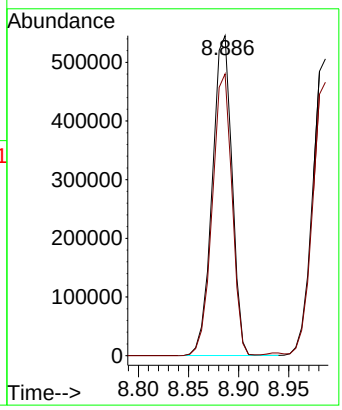
Tgt Ion:142 Resp: 74628

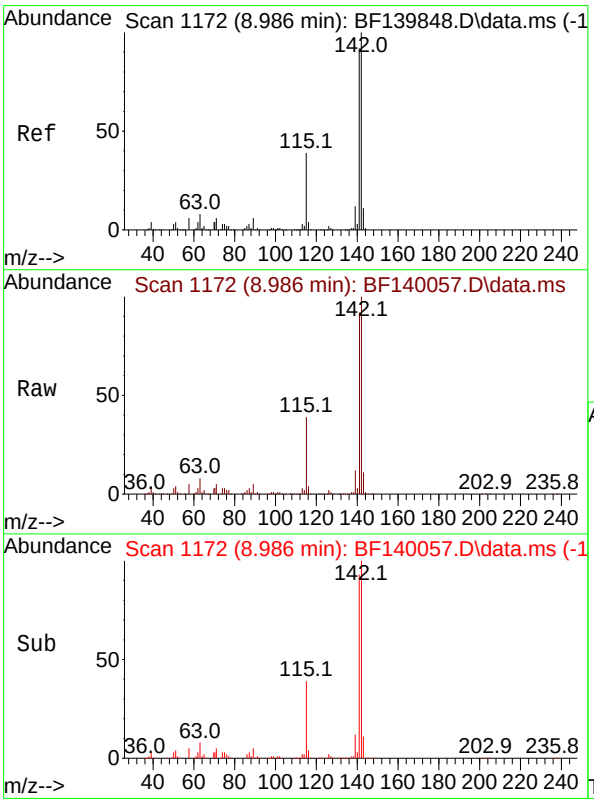
Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

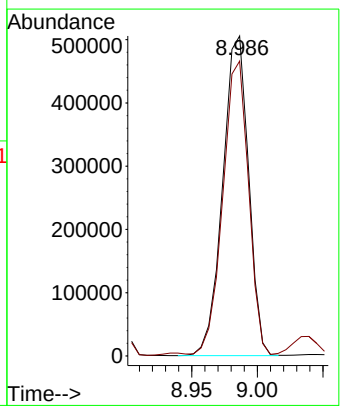


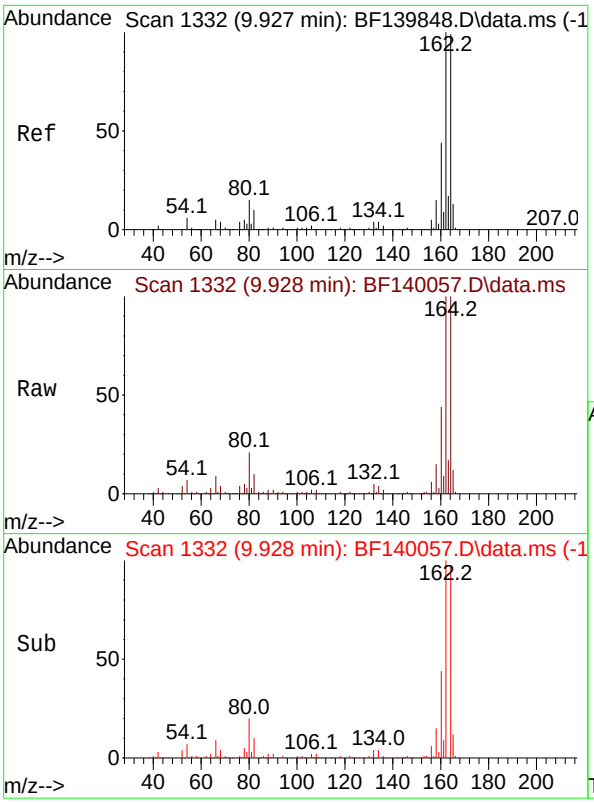


#38
1-Methylnaphthalene
Concen: 40.179 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:142 Resp: 692977

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.5	110.3

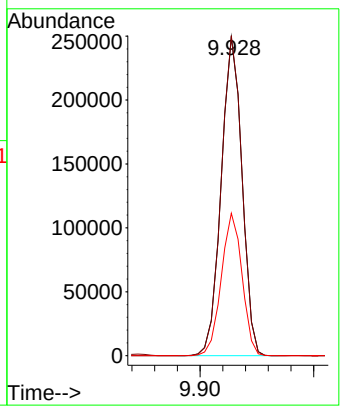




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:164 Resp: 31723

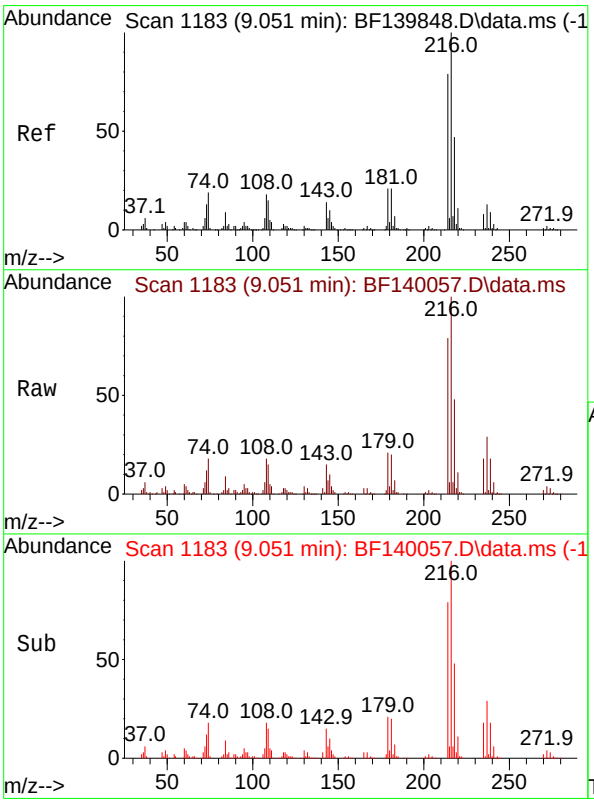
Ion	Ratio	Lower	Upper
164	100		
162	100.5	81.0	121.4
160	44.7	35.4	53.0



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

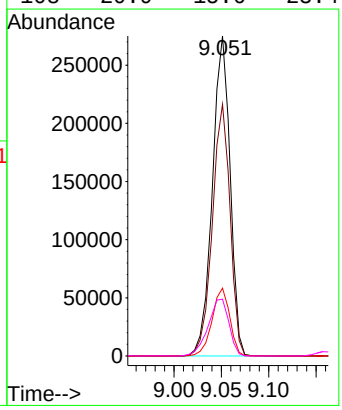
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

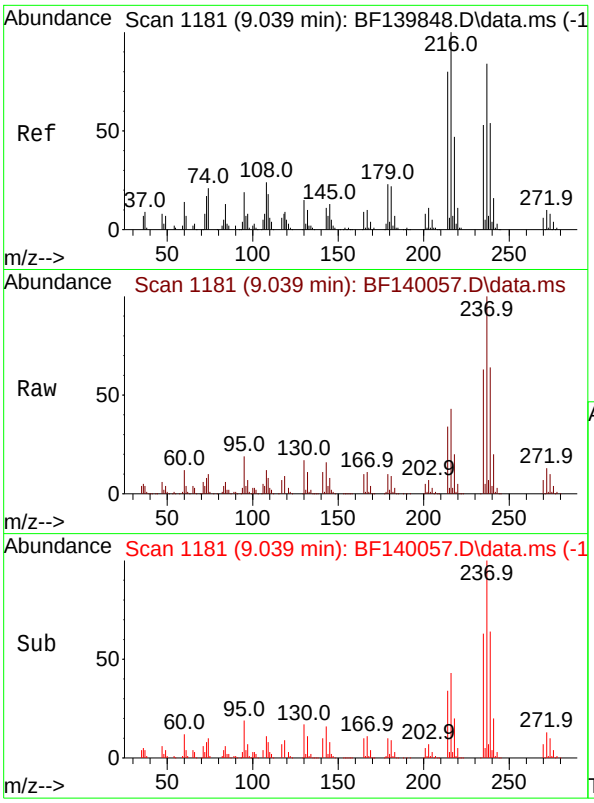


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.760 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:216 Resp: 357398

Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.4	95.0
179	21.2	17.2	25.8
108	20.9	15.6	23.4





#41
Hexachlorocyclopentadiene
Concen: 133.382 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

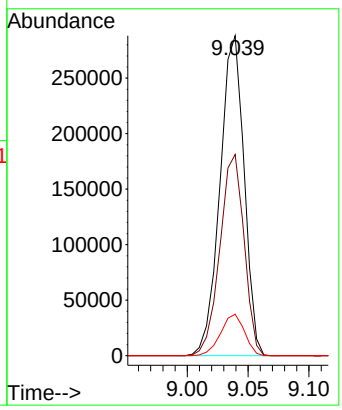
Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

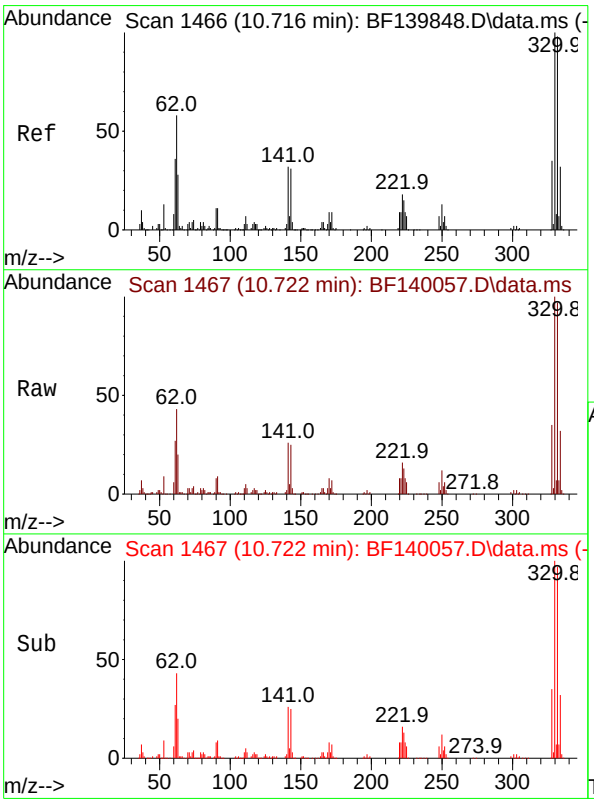
Tgt Ion:237 Resp: 39720

Ion	Ratio	Lower	Upper
237	100		
235	62.9	42.9	82.9
272	13.0	0.0	32.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

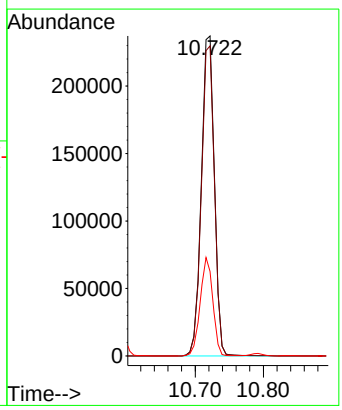


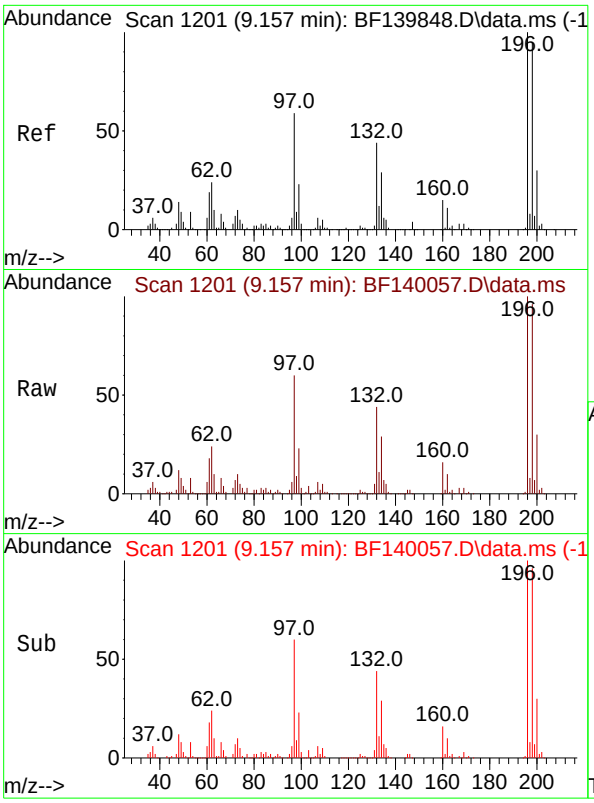


#42
2,4,6-Tribromophenol
Concen: 106.179 ng
RT: 10.722 min Scan# 1467
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:330 Resp: 315066

Ion	Ratio	Lower	Upper
330	100		
332	96.7	78.1	117.1
141	29.7	26.6	39.8

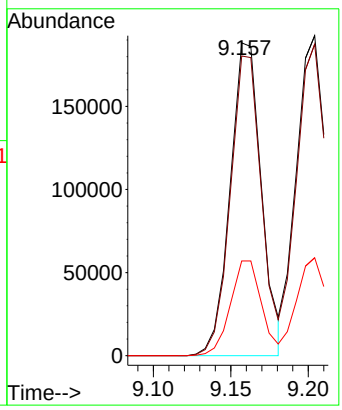




#43
2,4,6-Trichlorophenol
Concen: 43.494 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:196 Resp: 26354

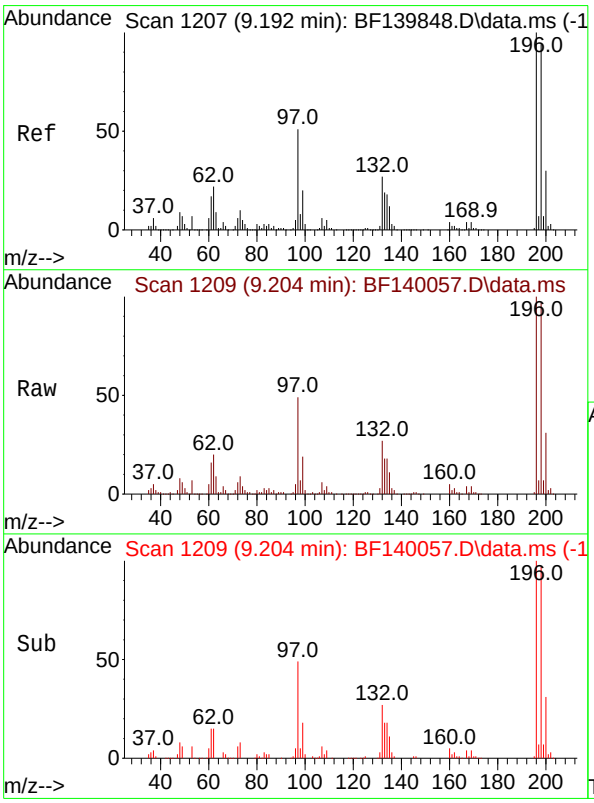
Ion	Ratio	Lower	Upper
196	100		
198	95.8	76.2	114.2
200	30.3	24.0	36.0



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

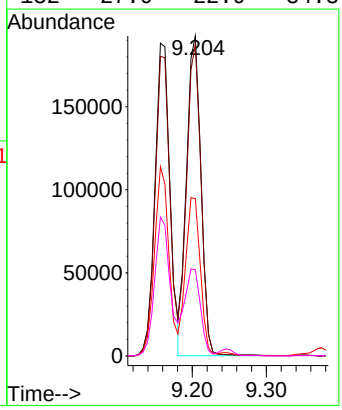
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

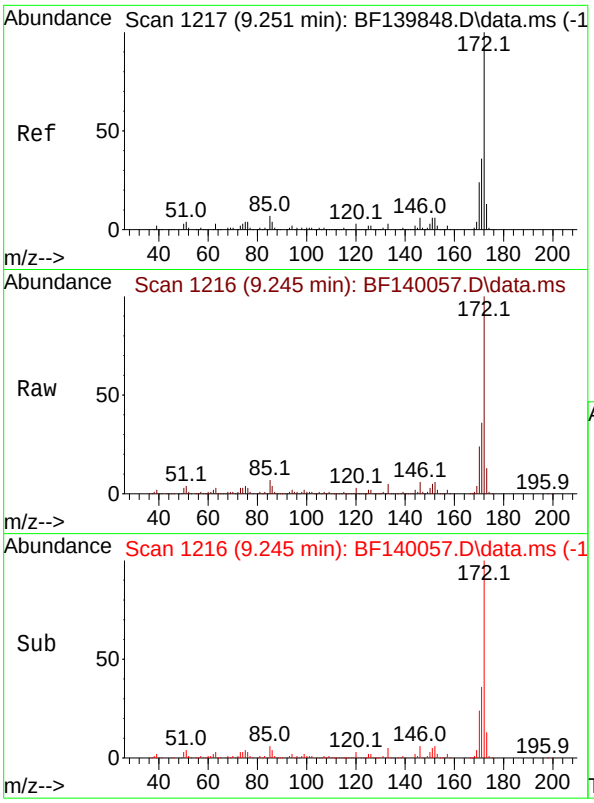


#44
2,4,5-Trichlorophenol
Concen: 41.883 ng
RT: 9.204 min Scan# 1209
Delta R.T. 0.012 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:196 Resp: 261831

Ion	Ratio	Lower	Upper
196	100		
198	97.4	75.8	113.6
97	49.2	41.8	62.6
132	27.0	22.9	34.3

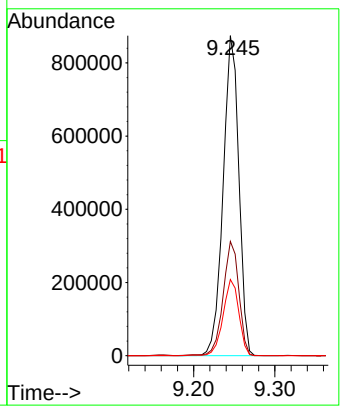




#45
2-Fluorobiphenyl
Concen: 61.482 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:172 Resp: 118014

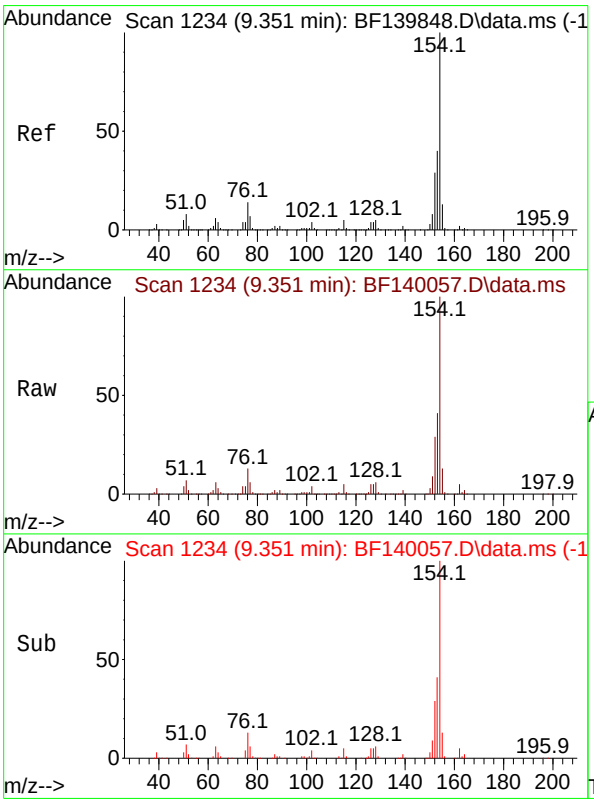
Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	23.8	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

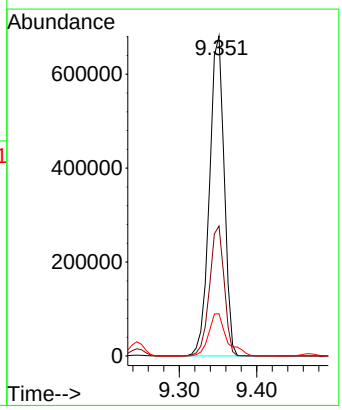
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

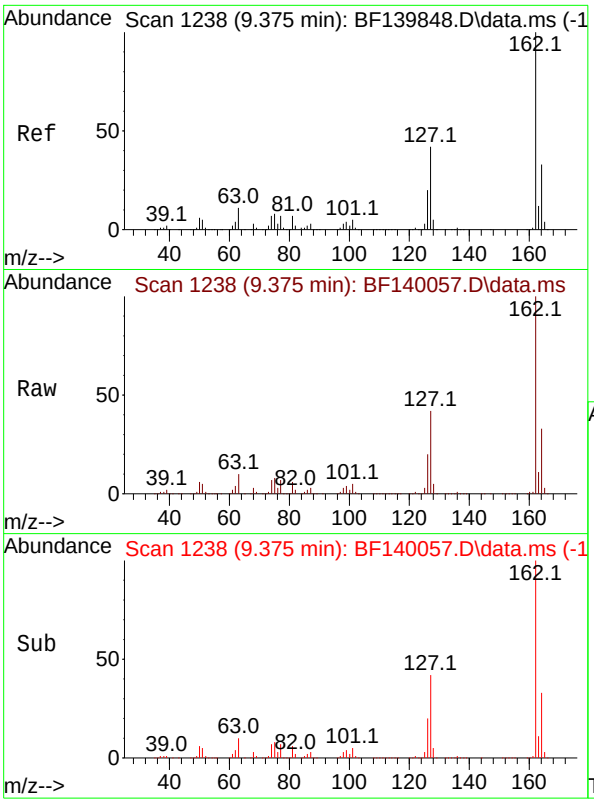


#46
1,1'-Biphenyl
Concen: 40.651 ng
RT: 9.351 min Scan# 1234
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:154 Resp: 897739

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.3	60.3
76	13.2	0.0	33.9

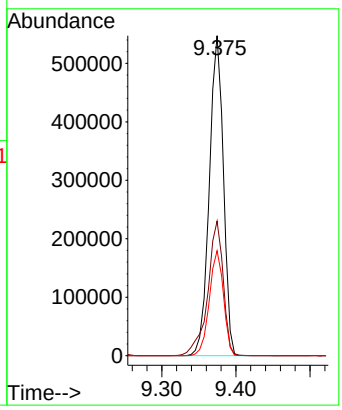




#47
2-Chloronaphthalene
Concen: 40.611 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:162 Resp: 72233

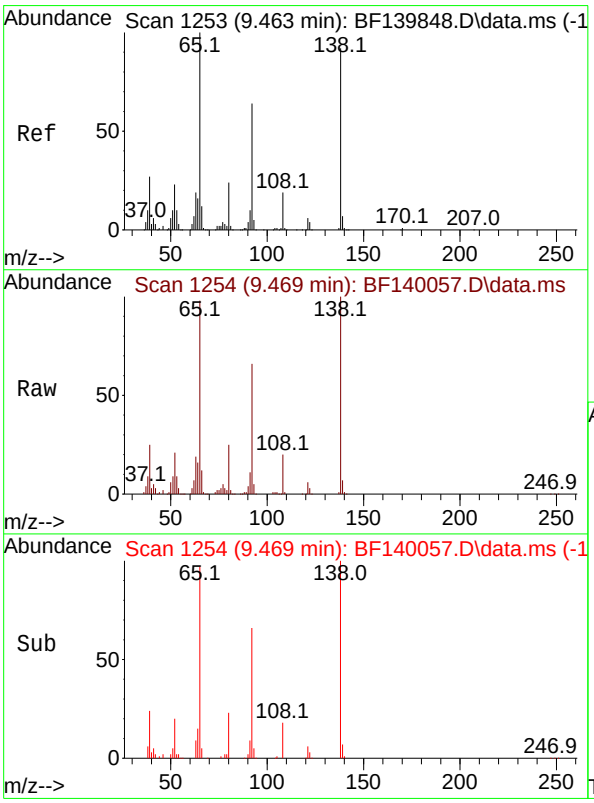
Ion	Ratio	Lower	Upper
162	100		
127	42.0	33.8	50.6
164	32.8	26.6	39.8



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

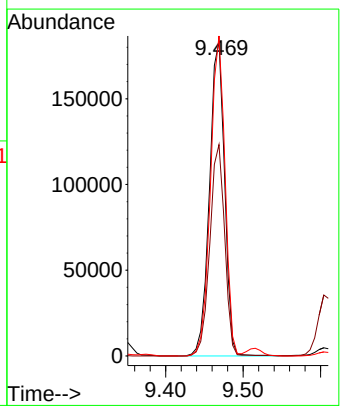
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

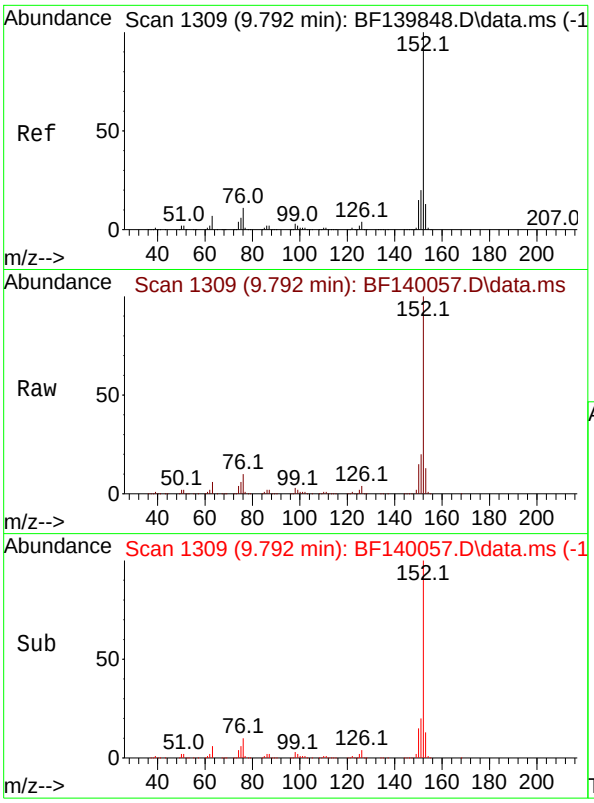


#48
2-Nitroaniline
Concen: 45.541 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 65 Resp: 247740

Ion	Ratio	Lower	Upper
65	100		
92	67.2	50.9	76.3
138	101.7	73.4	110.0





#49
Acenaphthylene
Concen: 43.383 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

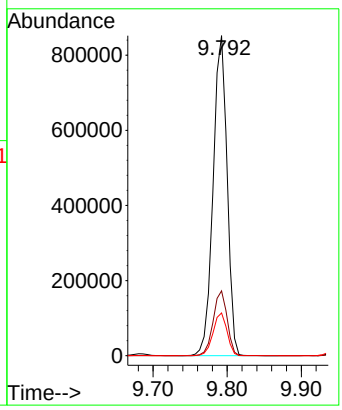
Tgt Ion:152 Resp: 111556

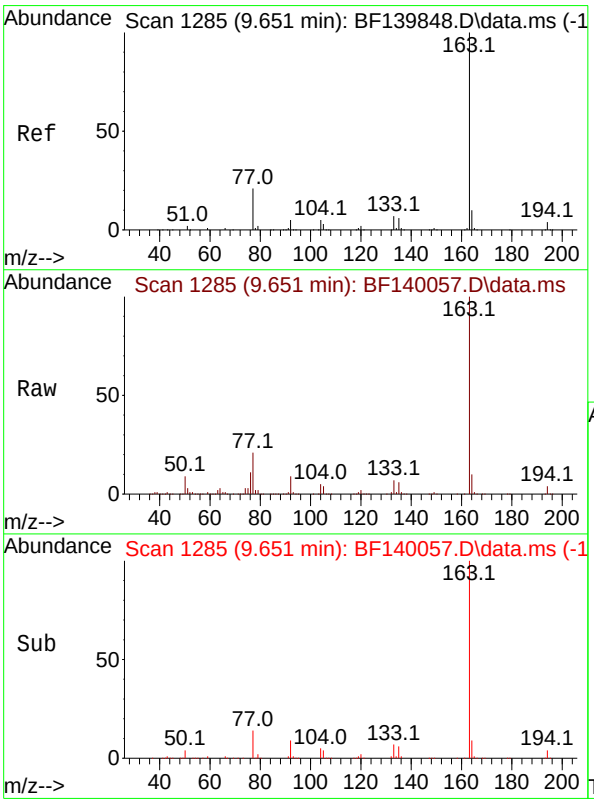
Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.9	23.9
153	13.3	10.7	16.1

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

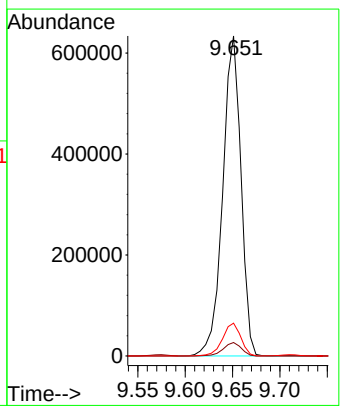


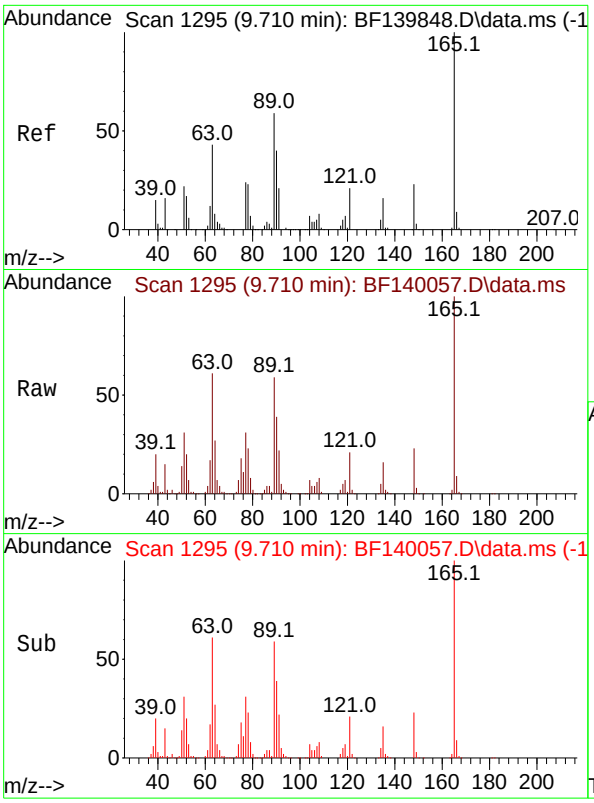


#50
Dimethylphthalate
Concen: 42.919 ng
RT: 9.651 min Scan# 1285
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:163 Resp: 848076

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.3	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 43.765 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

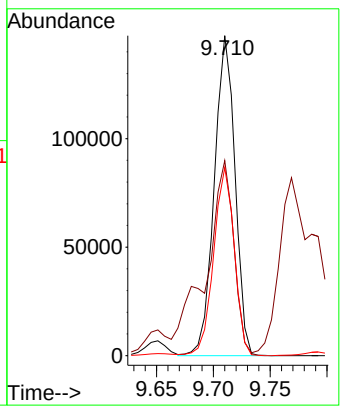
Tgt Ion:165 Resp: 18724

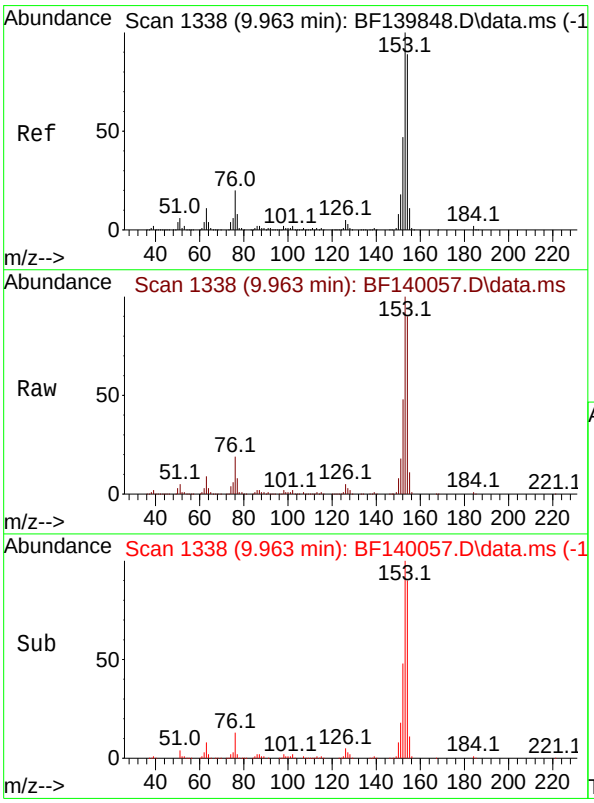
Ion	Ratio	Lower	Upper
165	100		
63	60.9	50.6	75.8
89	58.7	47.5	71.3

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

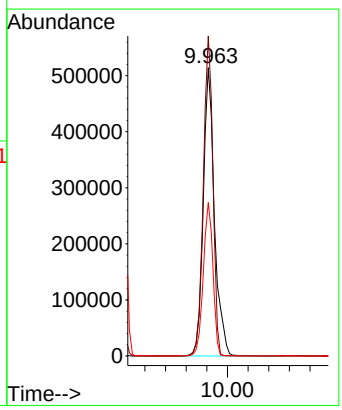


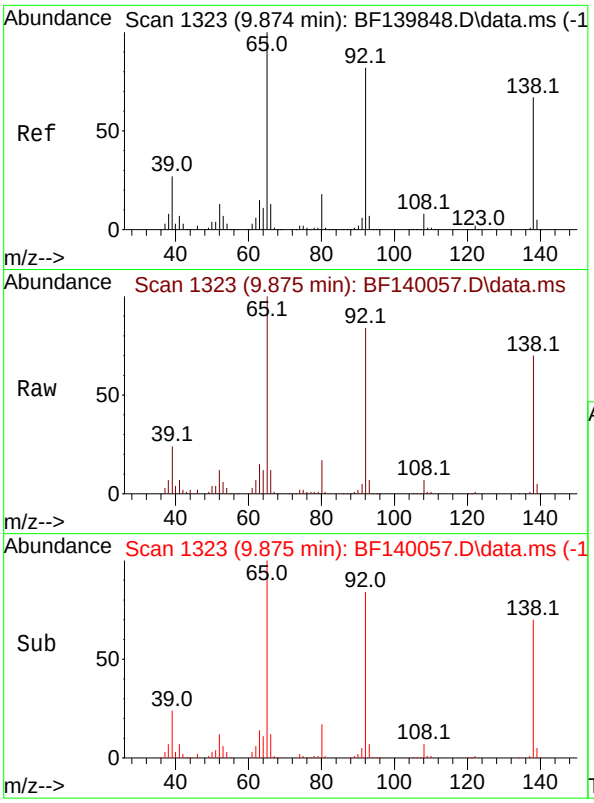


#52
Acenaphthene
Concen: 46.360 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:154 Resp: 771182

Ion	Ratio	Lower	Upper
154	100		
153	111.0	89.8	134.6
152	53.2	42.4	63.6





#53
3-Nitroaniline
Concen: 18.931 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

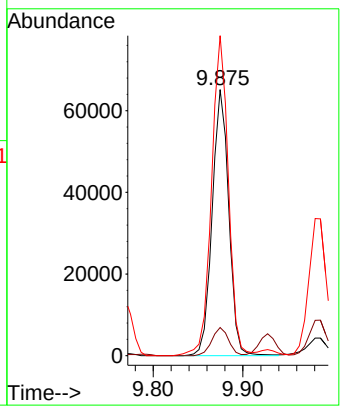
Tgt Ion:138 Resp: 8352

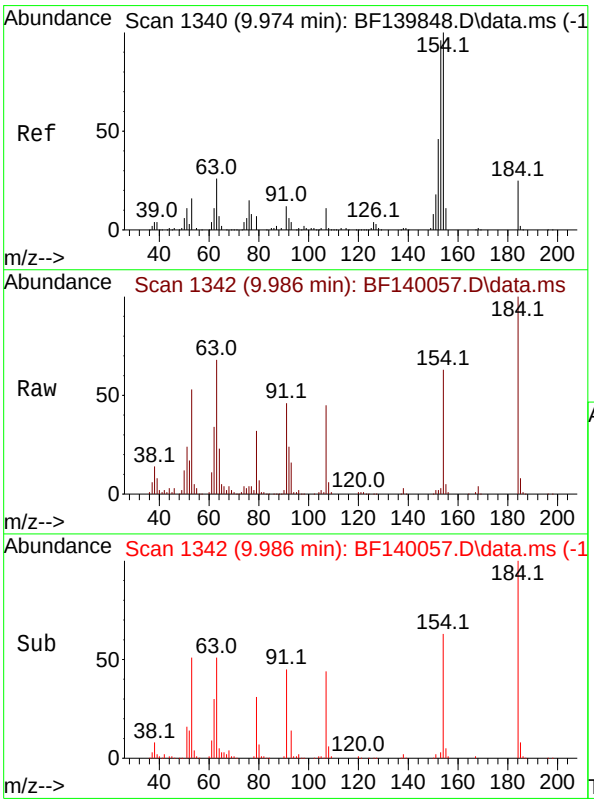
Ion	Ratio	Lower	Upper
138	100		
108	10.6	10.2	15.2
92	120.3	98.3	147.5

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

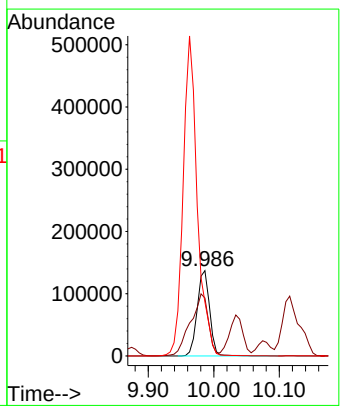


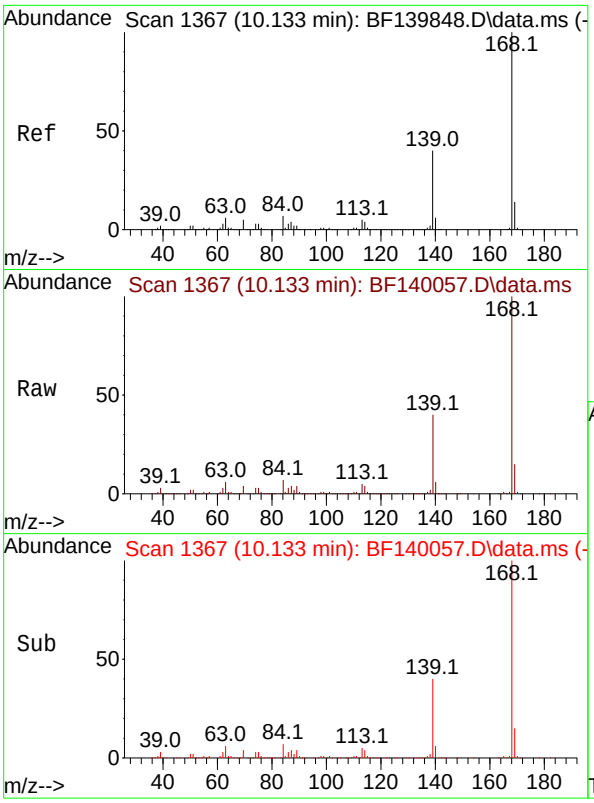


#54
2,4-Dinitrophenol
Concen: 100.411 ng
RT: 9.986 min Scan# 1342
Delta R.T. 0.012 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:184 Resp: 181712

Ion	Ratio	Lower	Upper
184	100		
63	67.9	84.7	127.1#
154	63.3	338.2	507.2#





#55
Dibenzofuran
Concen: 41.362 ng
RT: 10.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

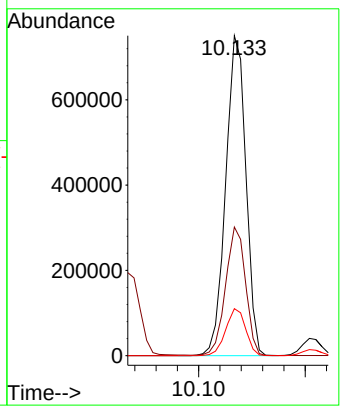
Tgt Ion:168 Resp: 98717

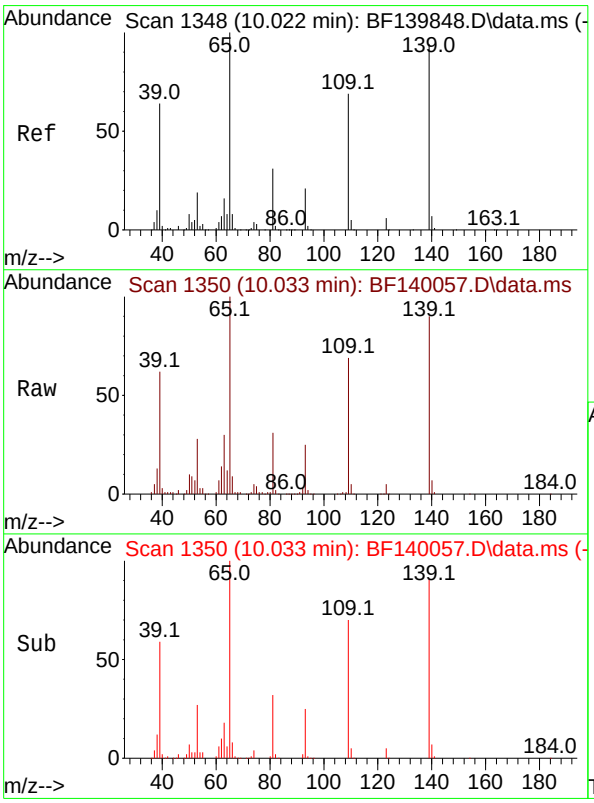
Ion	Ratio	Lower	Upper
168	100		
139	40.2	31.8	47.6
169	14.7	11.6	17.4

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

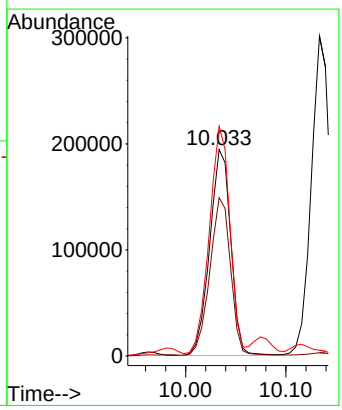


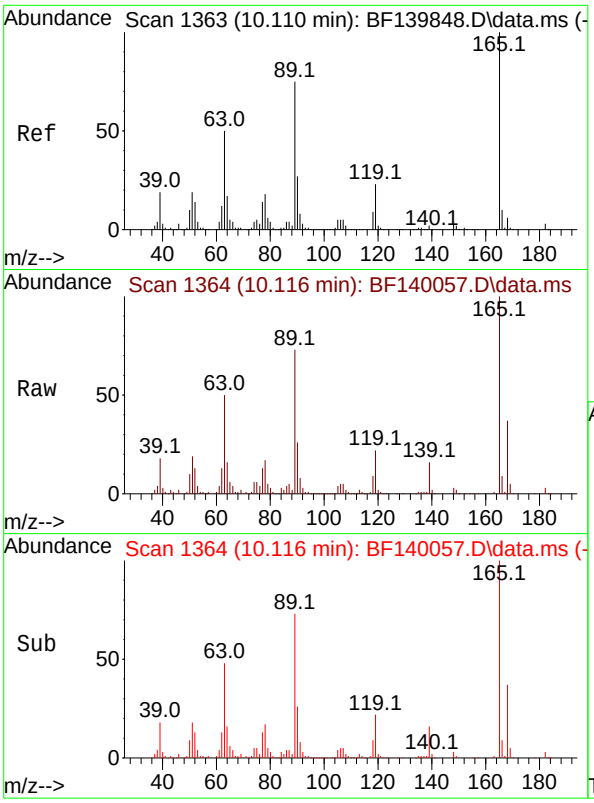


#56
4-Nitrophenol
Concen: 83.767 ng
RT: 10.033 min Scan# 1350
Delta R.T. 0.012 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:139 Resp: 284342

Ion	Ratio	Lower	Upper
139	100		
109	76.7	53.6	93.6
65	111.2	87.8	127.8

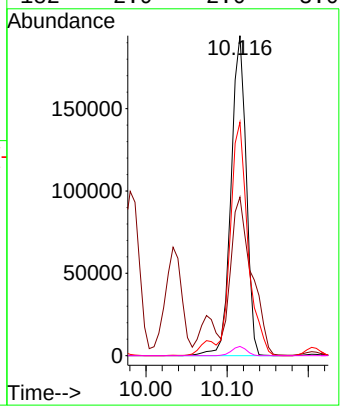




#57
2,4-Dinitrotoluene
Concen: 47.949 ng
RT: 10.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:165 Resp: 25227

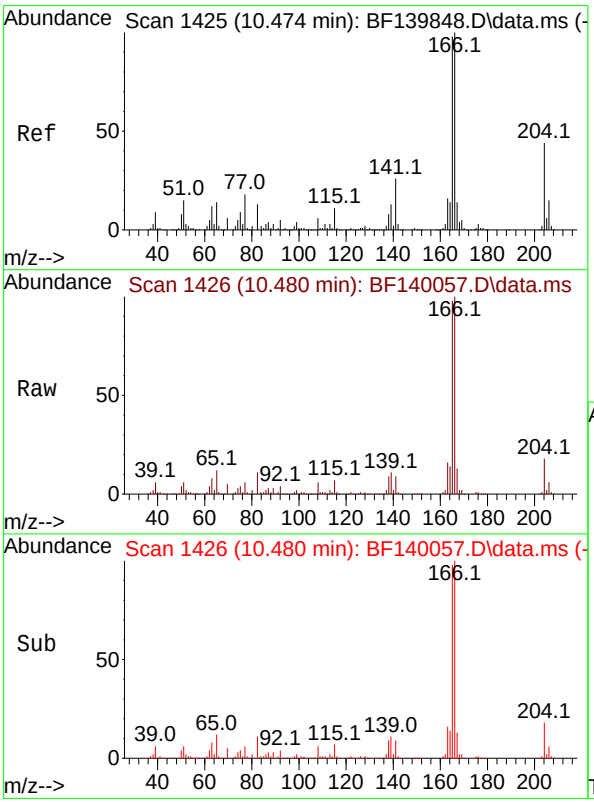
Ion	Ratio	Lower	Upper
165	100		
63	49.5	40.1	60.1
89	73.0	60.4	90.6
182	2.9	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

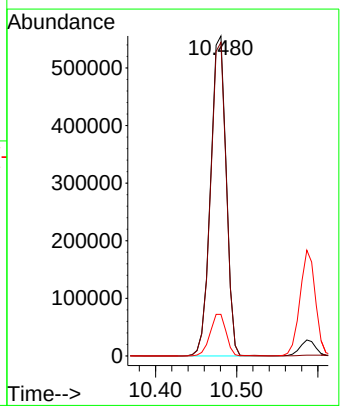
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

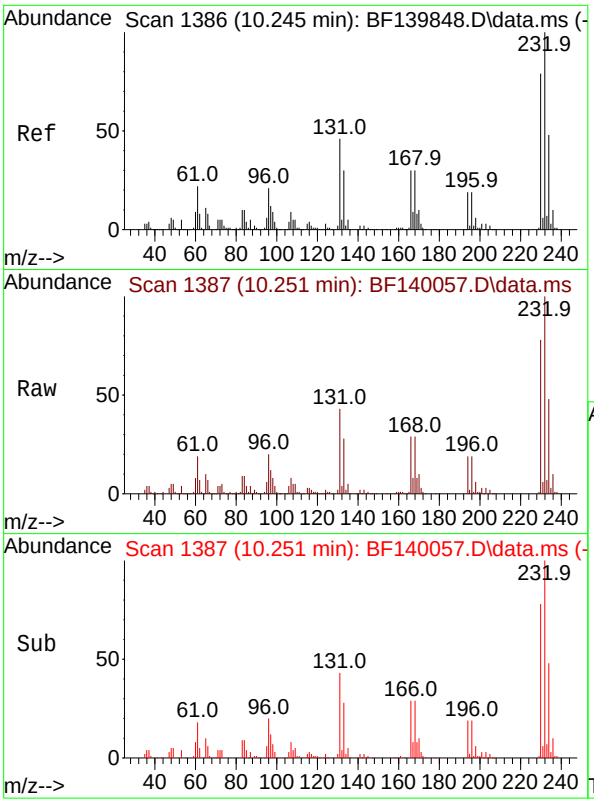


#58
Fluorene
Concen: 40.796 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:166 Resp: 741599

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.5	117.7
167	13.0	10.9	16.3

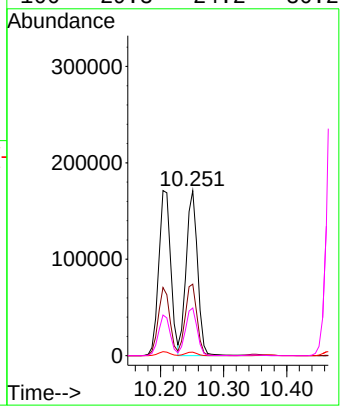




#59
2,3,4,6-Tetrachlorophenol
Concen: 44.055 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:232 Resp: 21590

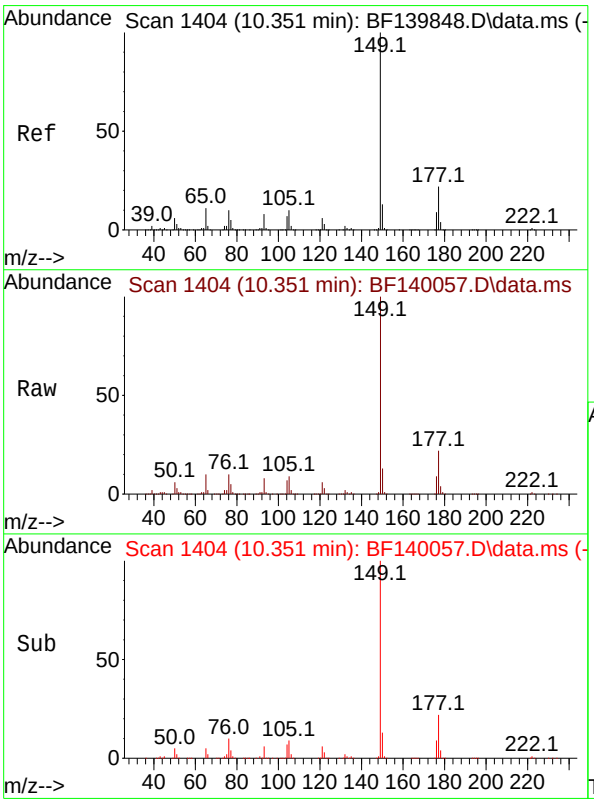
Ion	Ratio	Lower	Upper
232	100		
131	44.4	37.0	55.6
130	2.2	1.9	2.9
166	29.3	24.2	36.2



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

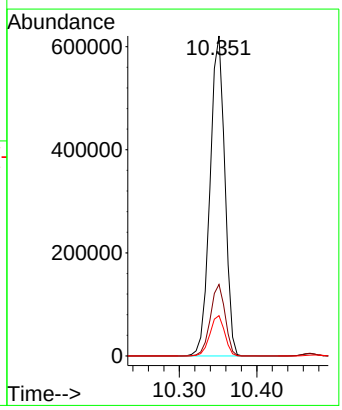
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

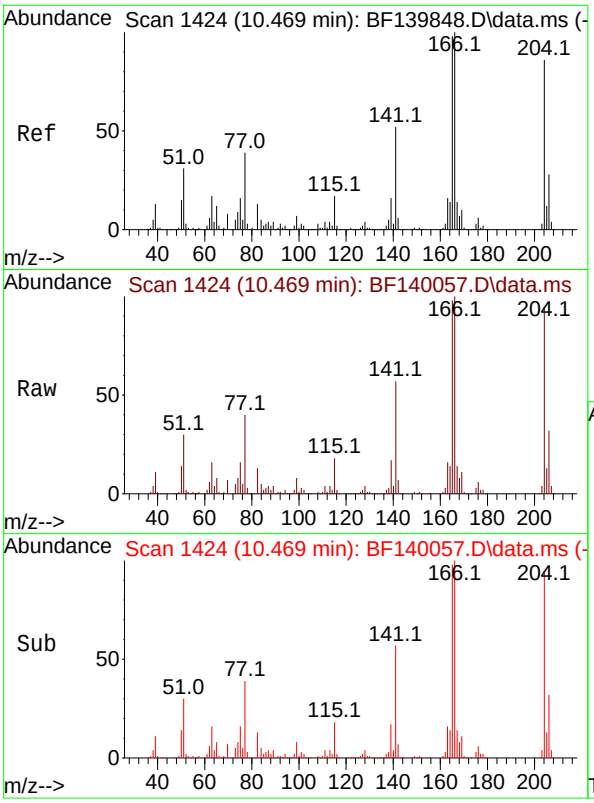


#60
Diethylphthalate
Concen: 42.372 ng
RT: 10.351 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:149 Resp: 822061

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	12.6	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 42.141 ng
RT: 10.469 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

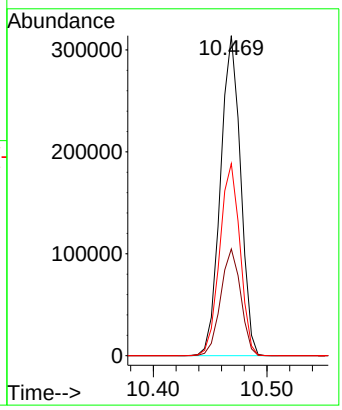
Tgt Ion:204 Resp: 38685

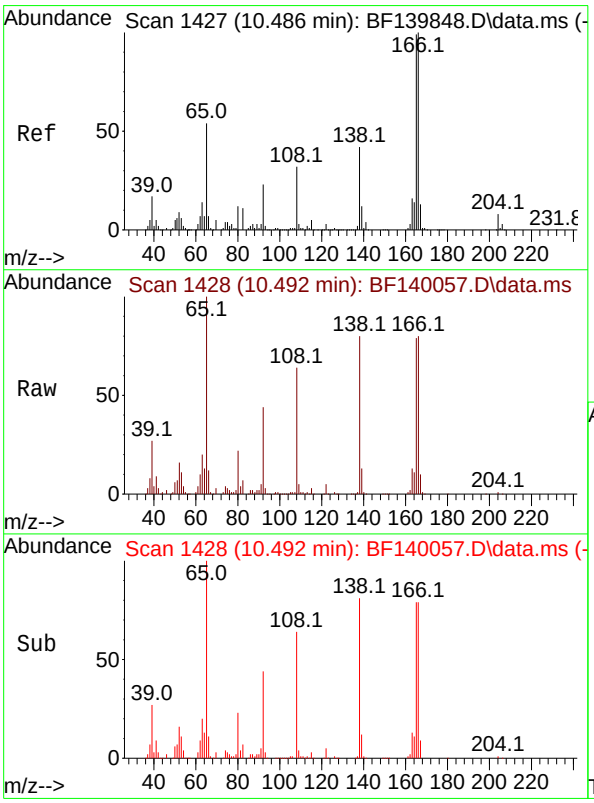
Ion	Ratio	Lower	Upper
204	100		
206	33.4	26.3	39.5
141	60.0	48.6	73.0

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

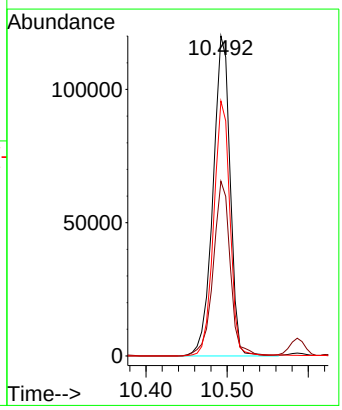


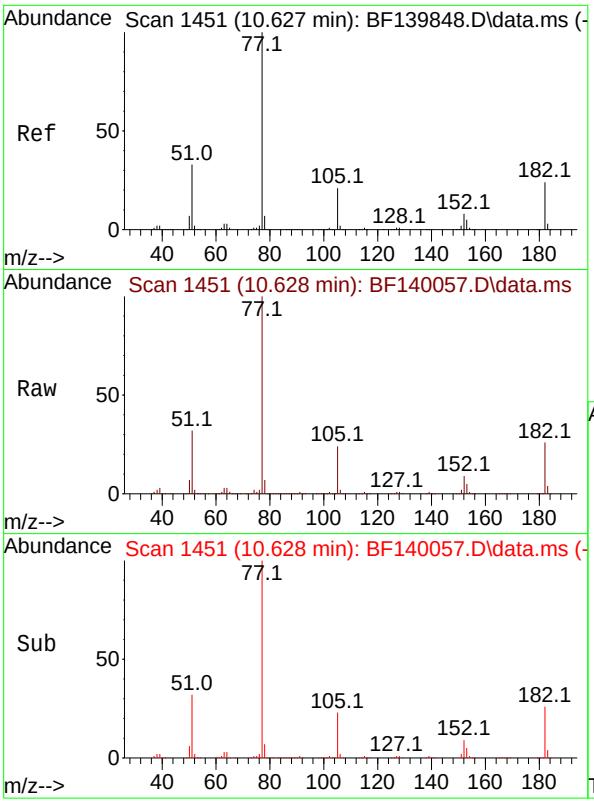


#62
4-Nitroaniline
Concen: 42.270 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:138 Resp: 176142

Ion	Ratio	Lower	Upper
138	100		
92	54.6	35.7	75.7
108	79.6	57.5	97.5

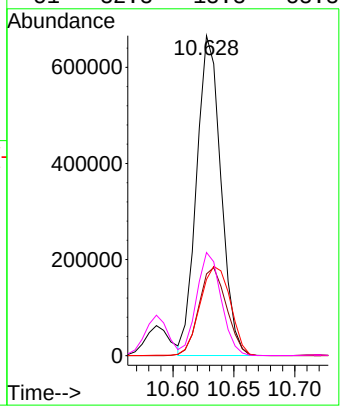




#63
Azobenzene
Concen: 44.854 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion: 77 Resp: 92257

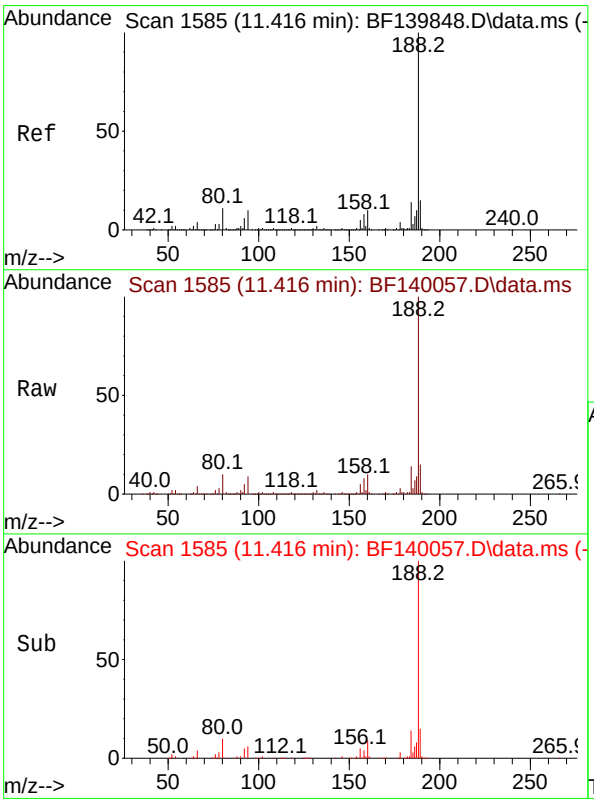
Ion	Ratio	Lower	Upper
77	100		
182	25.6	3.3	43.3
105	23.8	1.2	41.2
51	32.3	13.3	53.3



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

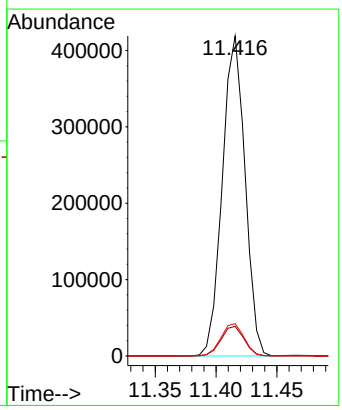
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

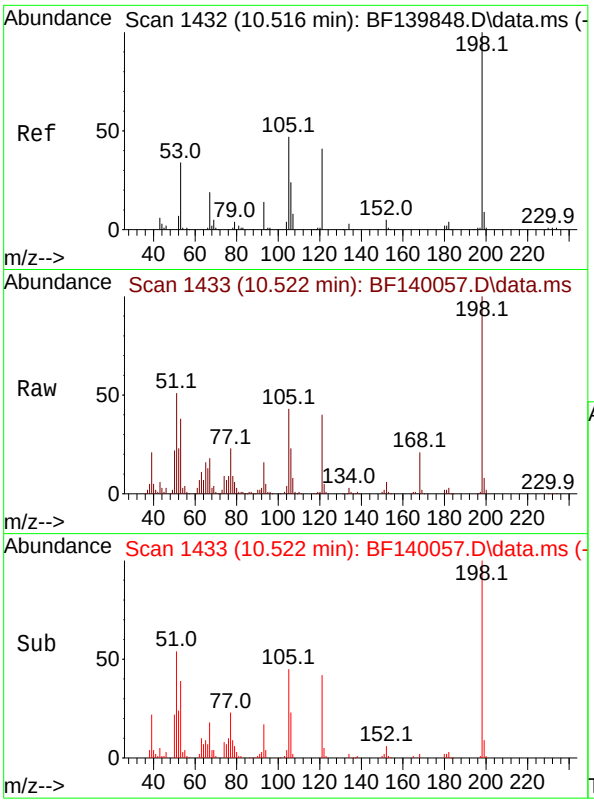


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:188 Resp: 543034

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.9	11.9
80	10.1	9.0	13.4





#65
4,6-Dinitro-2-methylphenol
Concen: 59.857 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

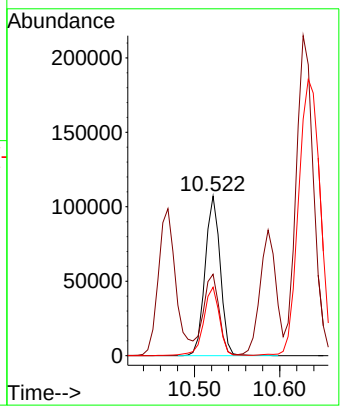
Tgt Ion:198 Resp: 13258

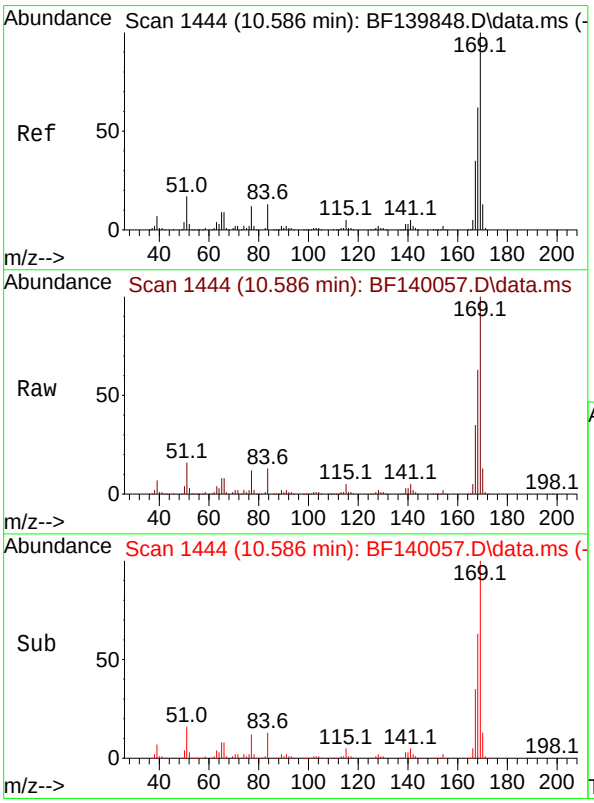
Ion	Ratio	Lower	Upper
198	100		
51	51.1	38.2	78.2
105	43.0	27.9	67.9

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

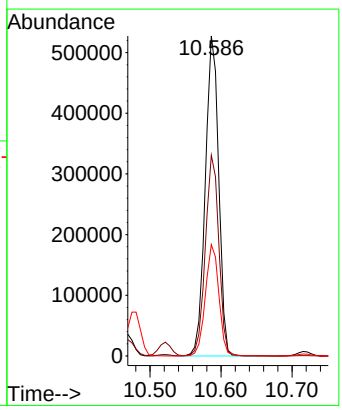


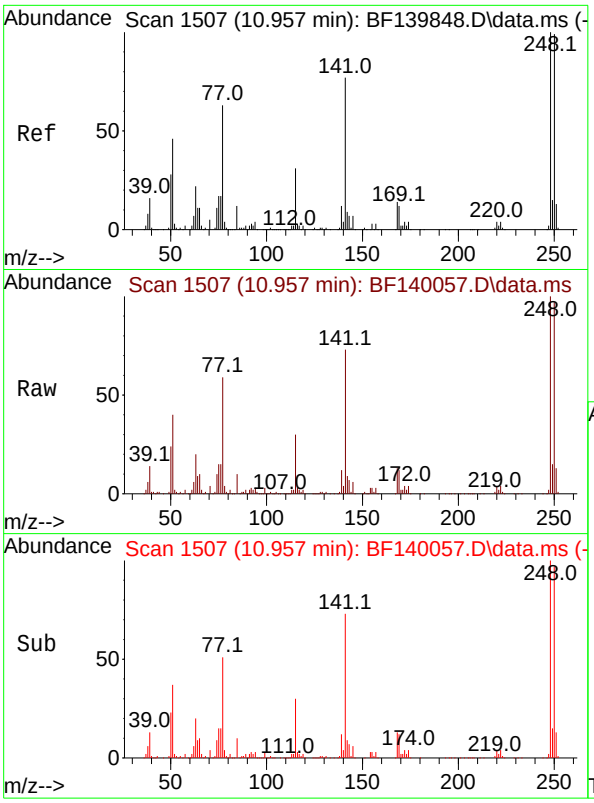


#66
n-Nitrosodiphenylamine
Concen: 42.618 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:169 Resp: 692666

Ion	Ratio	Lower	Upper
169	100		
168	62.7	49.8	74.6
167	34.8	28.0	42.0





#67
4-Bromophenyl-phenylether
Concen: 44.439 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

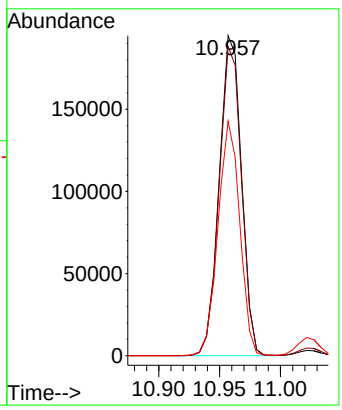
Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

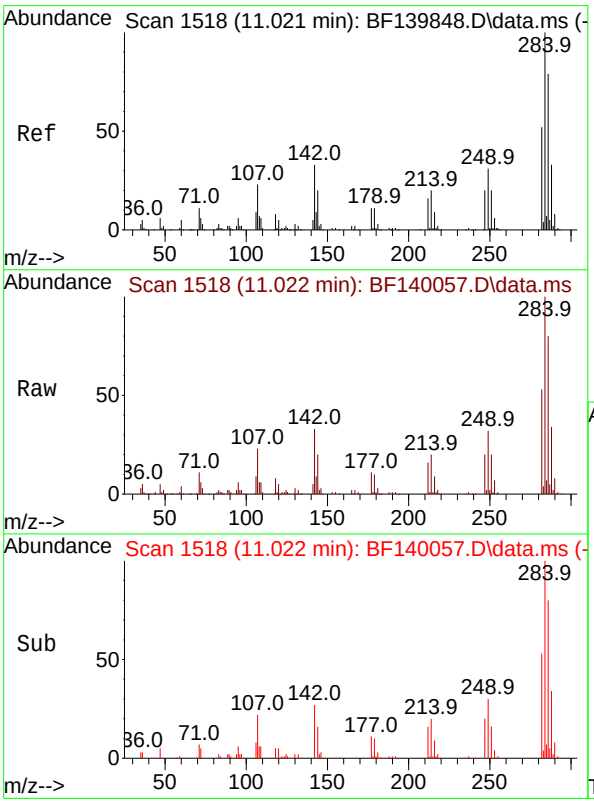
Tgt Ion:248 Resp: 24860

Ion	Ratio	Lower	Upper
248	100		
250	96.6	79.0	118.6
141	73.3	61.7	92.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

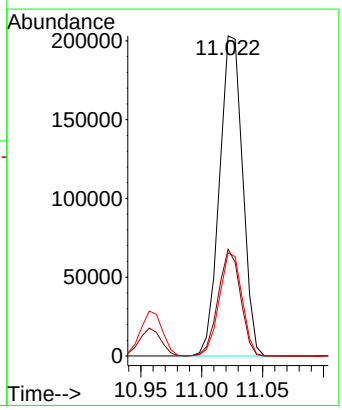


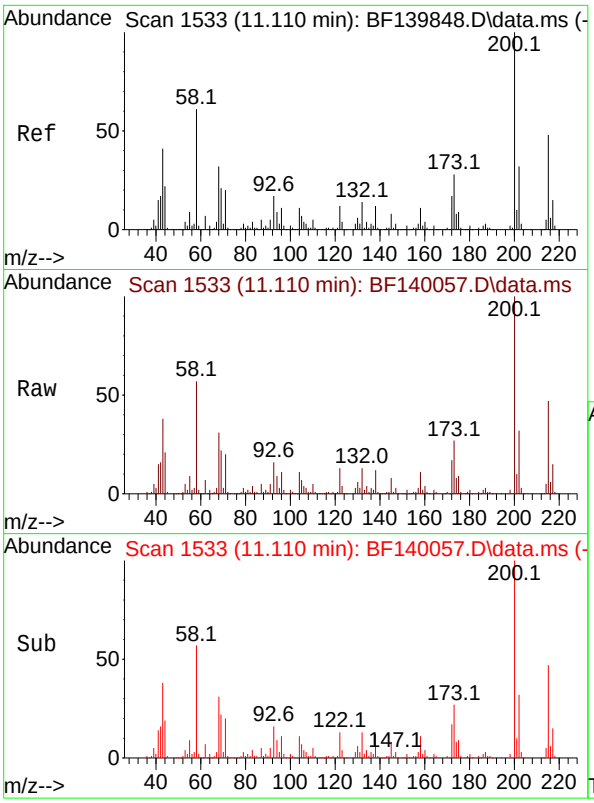


#68
Hexachlorobenzene
Concen: 42.692 ng
RT: 11.022 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:284 Resp: 268605

Ion	Ratio	Lower	Upper
284	100		
142	33.3	26.9	40.3
249	32.3	25.3	37.9





#69
Atrazine
Concen: 51.437 ng
RT: 11.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

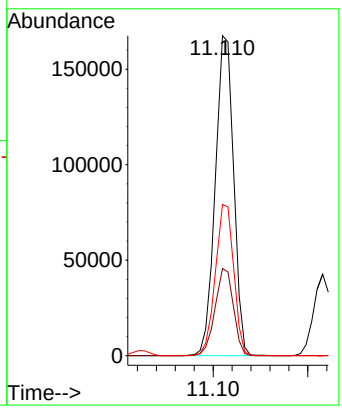
Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

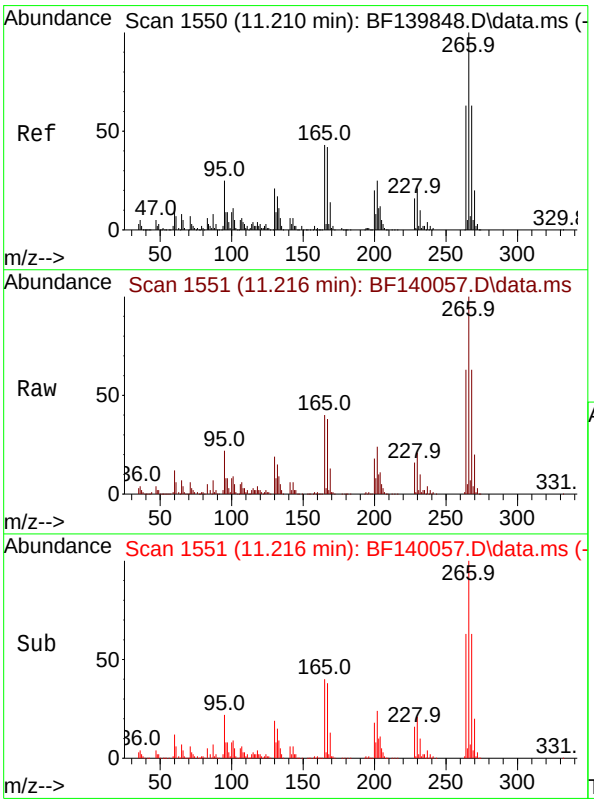
Tgt Ion:200 Resp: 22645

Ion	Ratio	Lower	Upper
200	100		
173	27.2	7.7	47.7
215	47.2	27.7	67.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

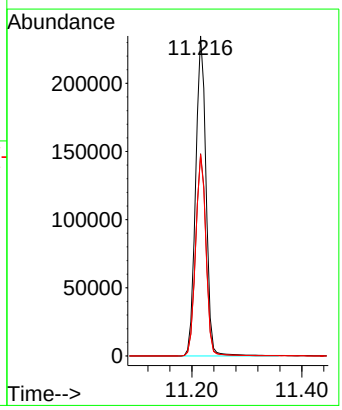


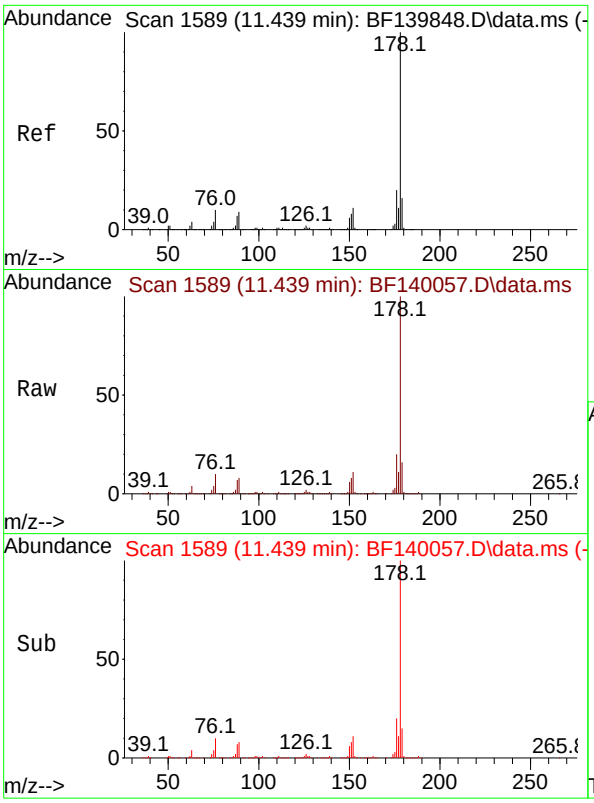


#70
Pentachlorophenol
Concen: 80.506 ng
RT: 11.216 min Scan# 1551
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:266 Resp: 307411

Ion	Ratio	Lower	Upper
266	100		
268	63.2	50.4	75.6
264	62.9	50.6	75.8





#71
Phenanthrene
Concen: 41.478 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

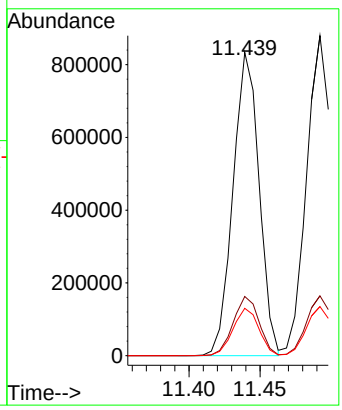
Tgt Ion:178 Resp: 106394

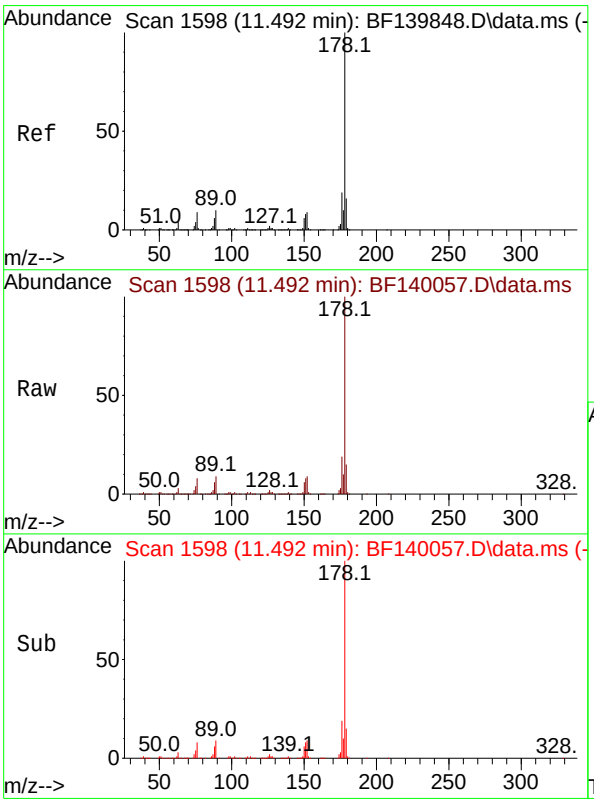
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.6
179	15.6	12.6	18.8

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

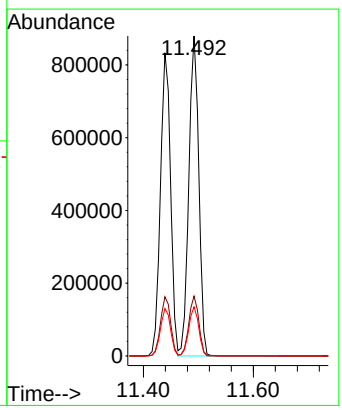


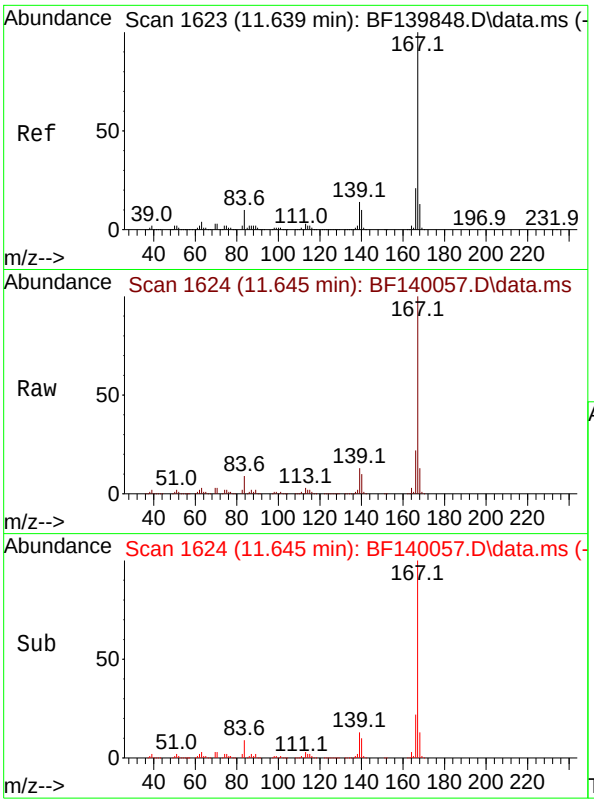


#72
Anthracene
Concen: 44.109 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:178 Resp: 1103909

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.3	22.9
179	15.4	12.4	18.6





#73
Carbazole
Concen: 39.433 ng
RT: 11.645 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

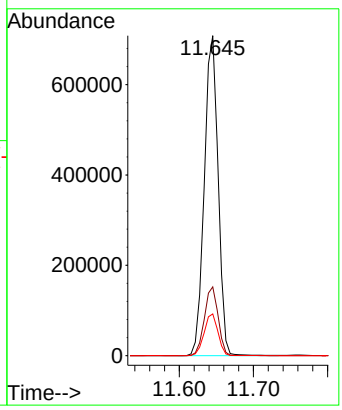
Tgt Ion:167 Resp: 91782

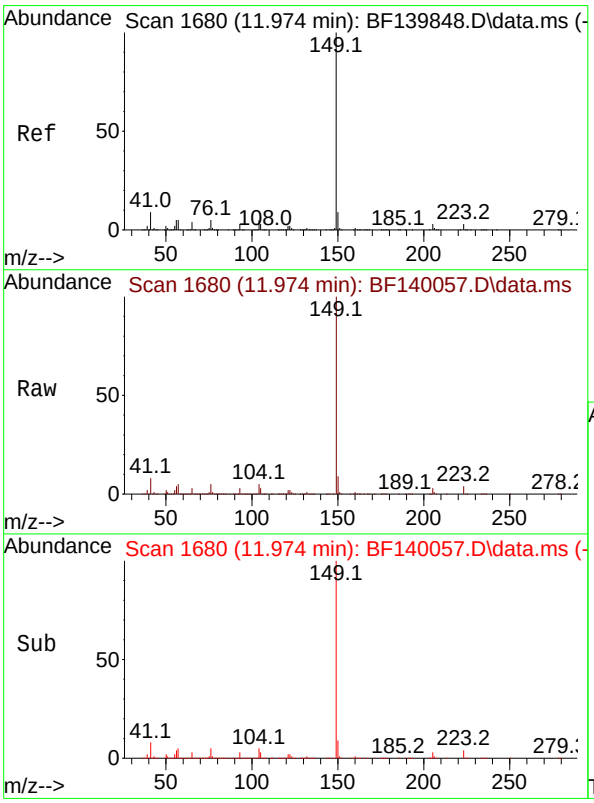
Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.0	25.6
139	13.0	10.8	16.2

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

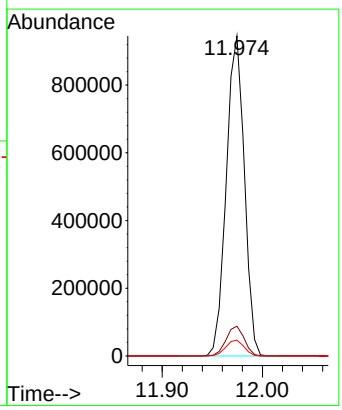


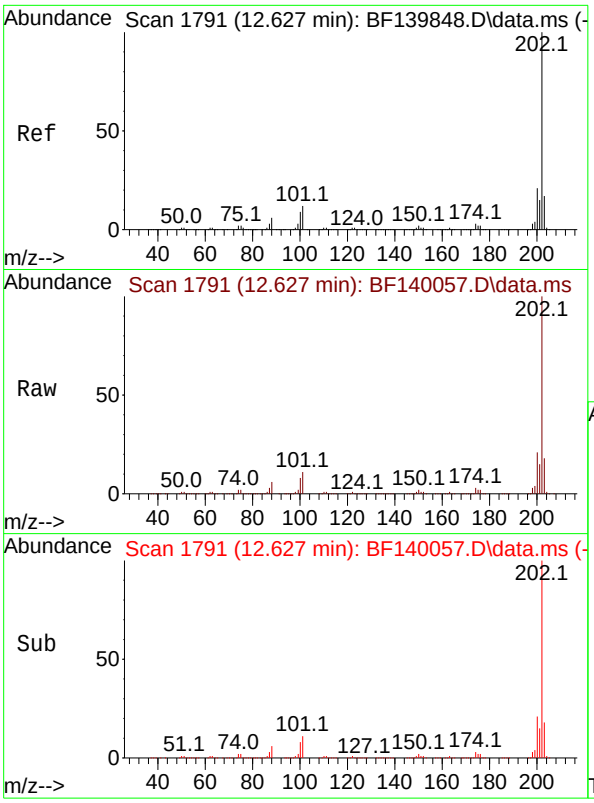


#74
Di-n-butylphthalate
Concen: 43.984 ng
RT: 11.974 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:149 Resp: 1182778

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.5	11.3
104	5.0	4.1	6.1

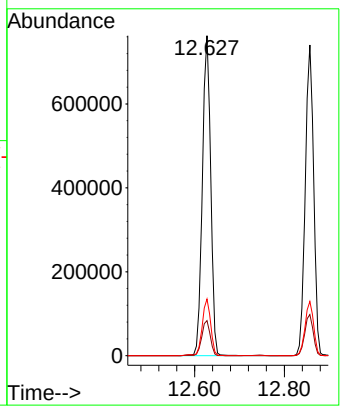




#75
Fluoranthene
Concen: 37.929 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:202 Resp: 98351

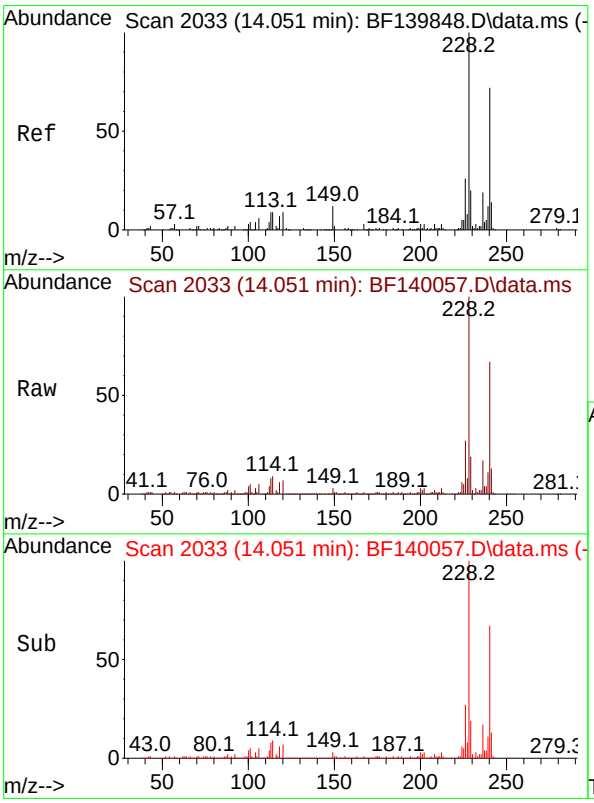
Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.9
203	17.7	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

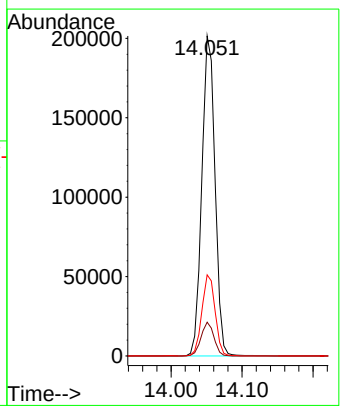
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

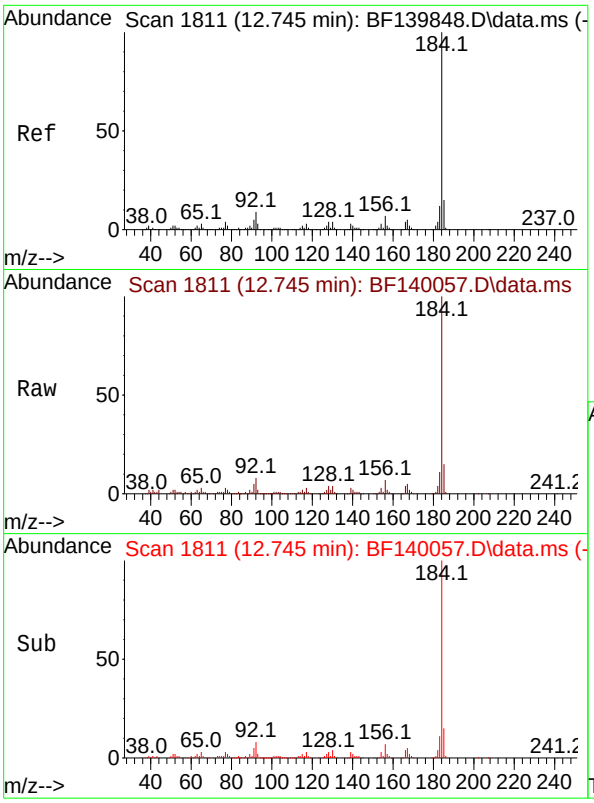


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:240 Resp: 260710

Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.4	14.2
236	25.3	20.9	31.3





#77
Benzidine
Concen: 53.757 ng
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

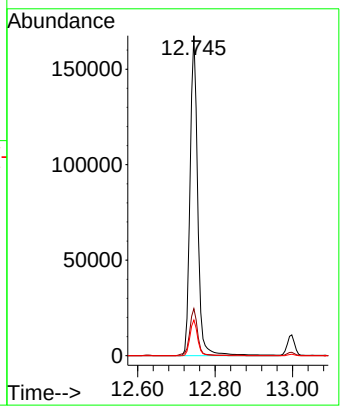
Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

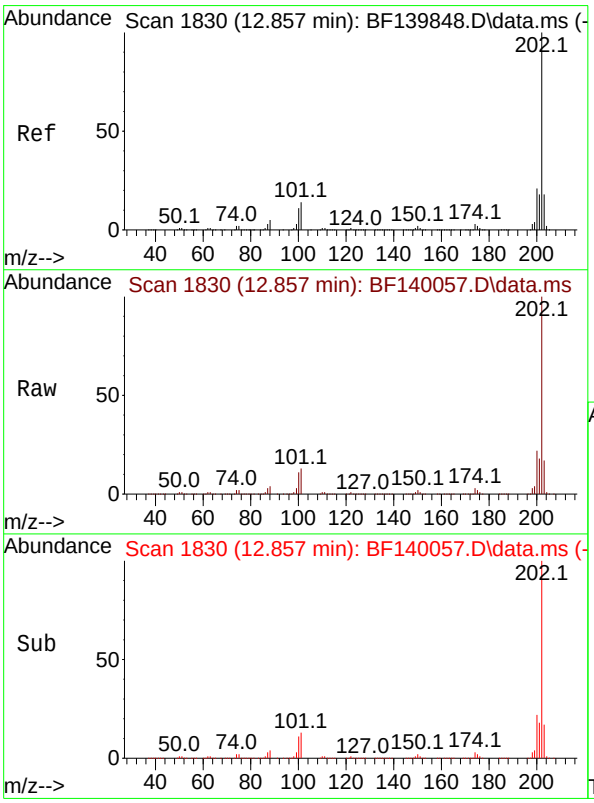
Tgt Ion:184 Resp: 23045

Ion	Ratio	Lower	Upper
184	100		
185	14.7	12.0	18.0
183	11.2	9.4	14.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

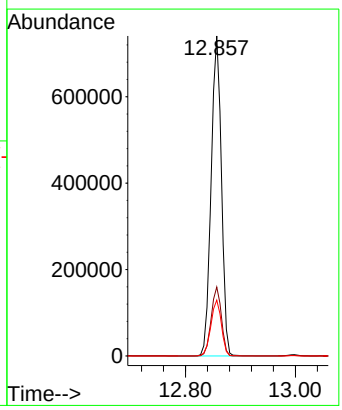


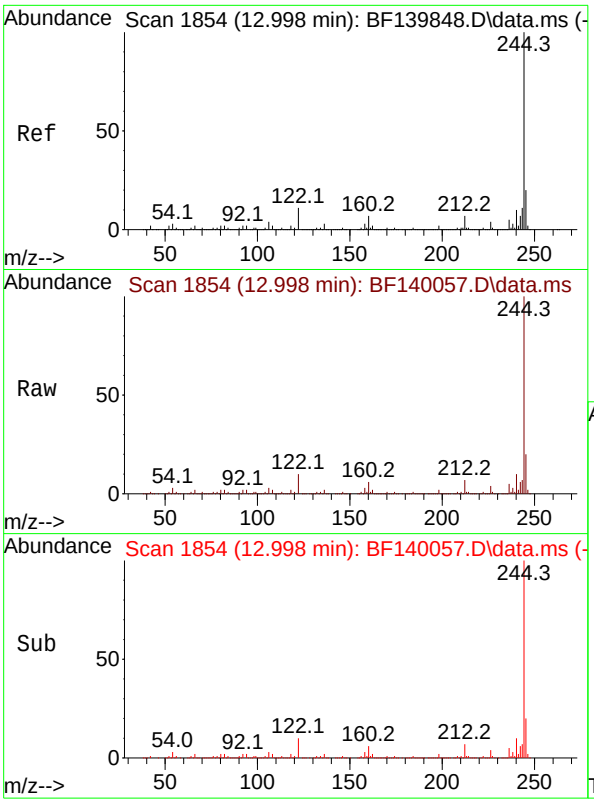


#78
Pyrene
Concen: 42.164 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:202 Resp: 962217

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8
203	17.5	14.2	21.4

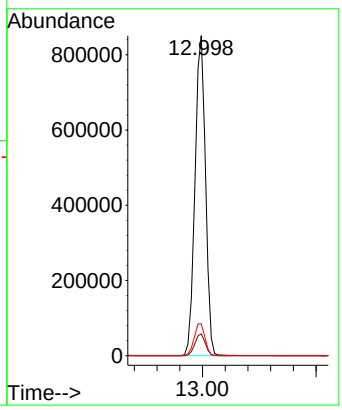




#79
Terphenyl-d14
Concen: 68.674 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:244 Resp: 109875

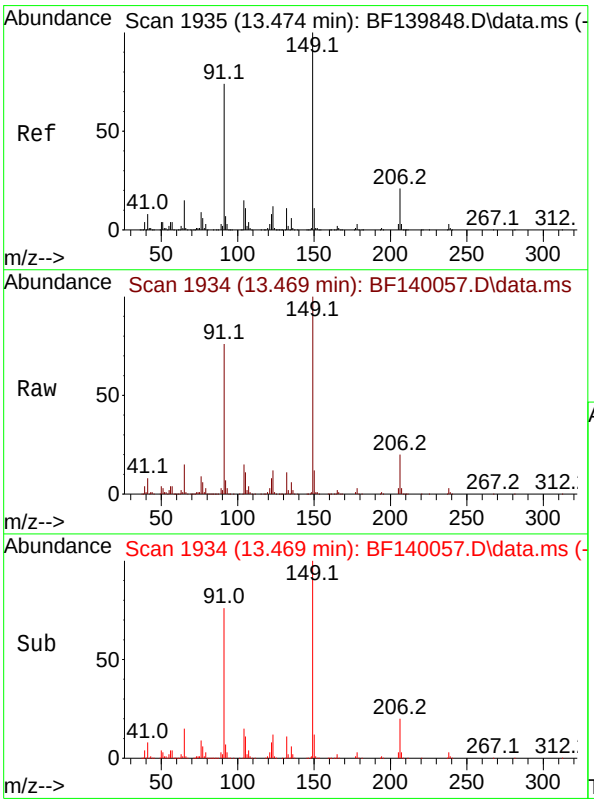
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	10.0	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

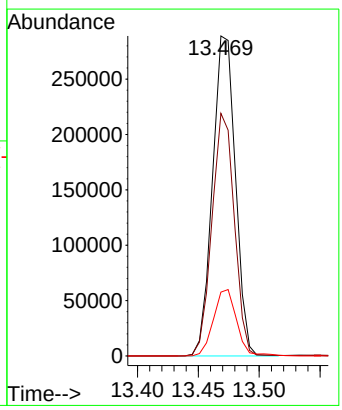
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

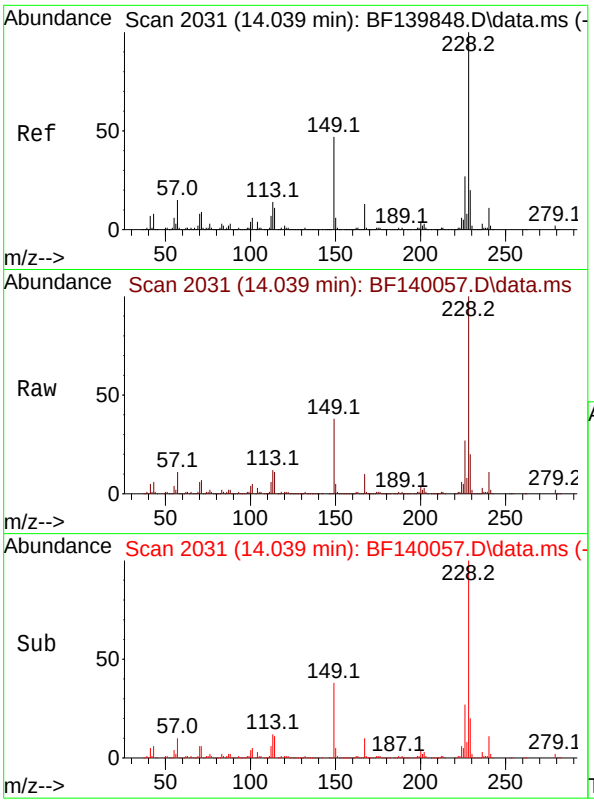


#80
Butylbenzylphthalate
Concen: 55.318 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:149 Resp: 378474

Ion	Ratio	Lower	Upper
149	100		
91	75.8	59.4	89.2
206	20.0	16.4	24.6





#81
Benzo(a)anthracene
Concen: 42.809 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

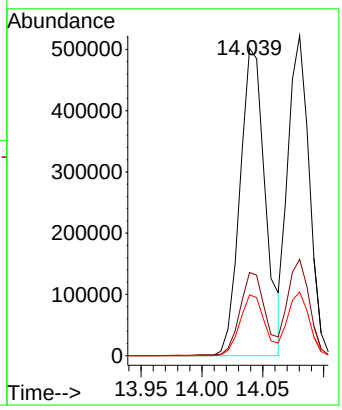
Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

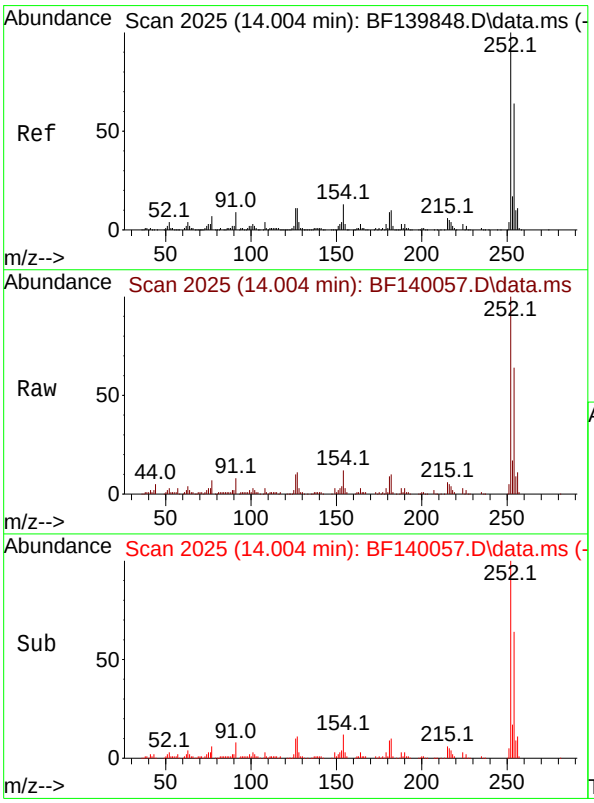
Tgt Ion:228 Resp: 72653

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.6	32.4
229	19.8	16.1	24.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

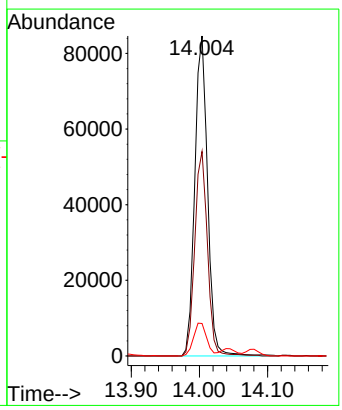


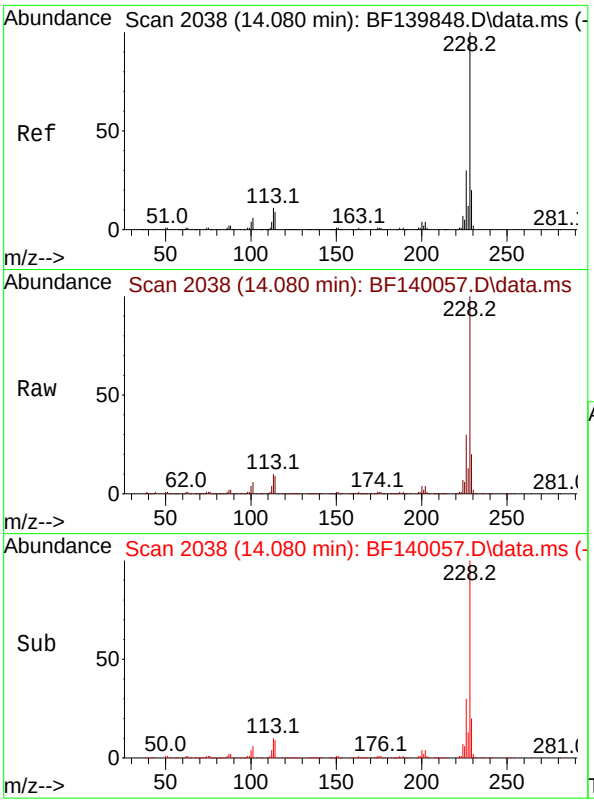


#82
3,3'-Dichlorobenzidine
Concen: 22.353 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:252 Resp: 110608

Ion	Ratio	Lower	Upper
252	100		
254	63.9	50.8	76.2
126	10.1	8.9	13.3





#83
Chrysene
Concen: 40.980 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

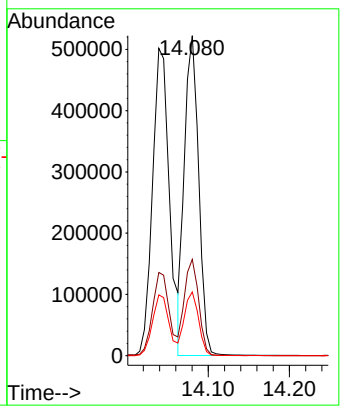
Tgt Ion:228 Resp: 63768

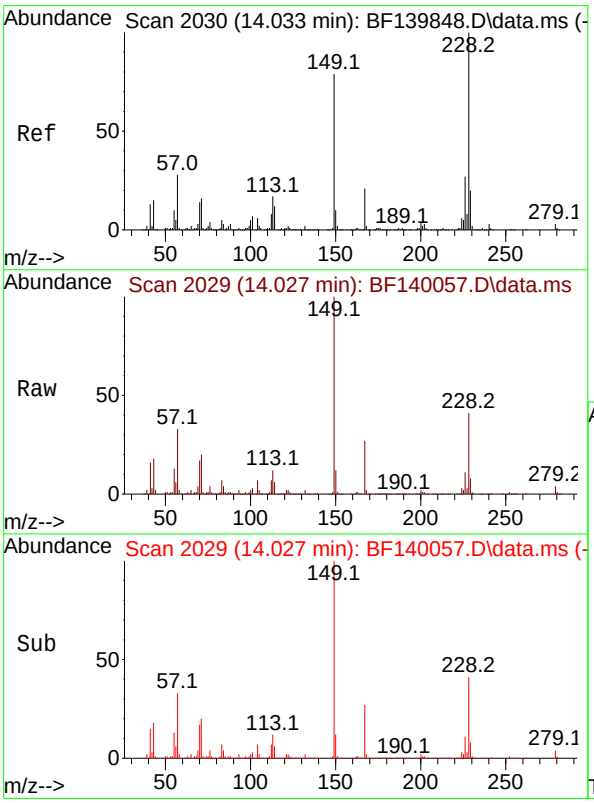
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.1	36.1
229	19.9	15.8	23.6

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

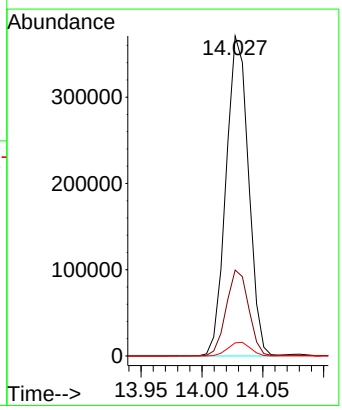


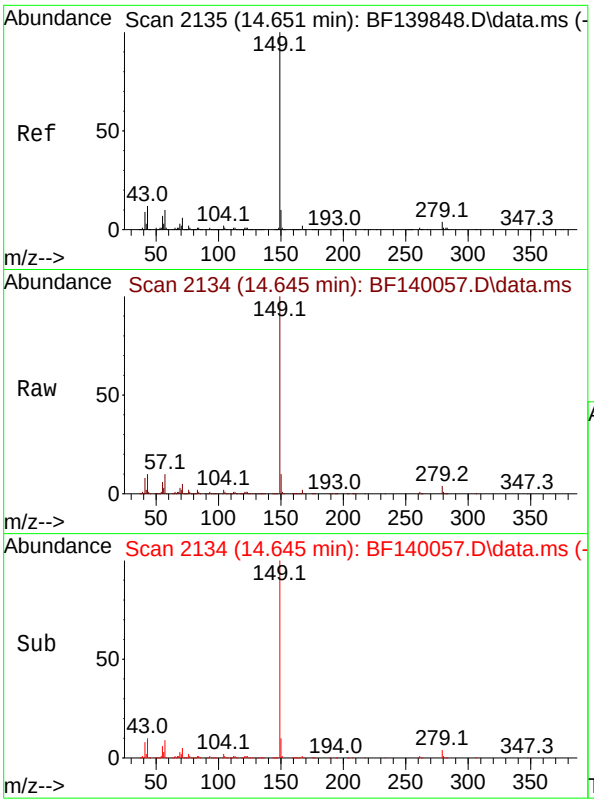


#84
Bis(2-ethylhexyl)phthalate
Concen: 62.011 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:149 Resp: 475998

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.4	32.0
279	4.1	3.0	4.4





#85
Di-n-octyl phthalate
Concen: 53.559 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

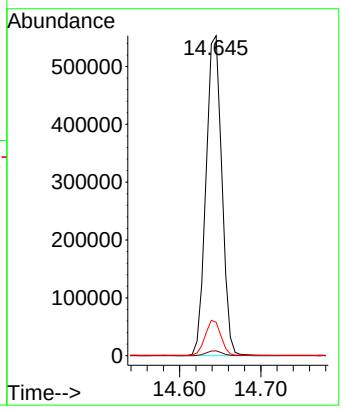
Tgt Ion:149 Resp: 74777

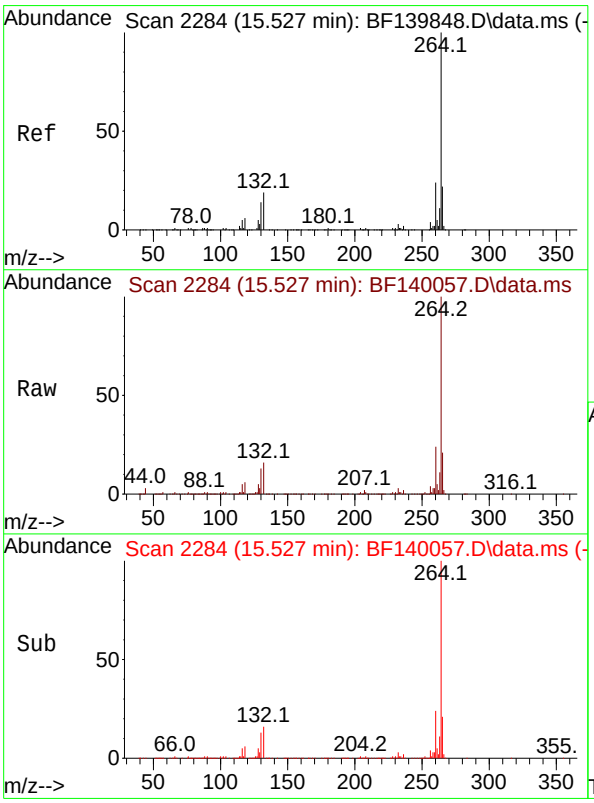
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.7	9.8	14.6

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

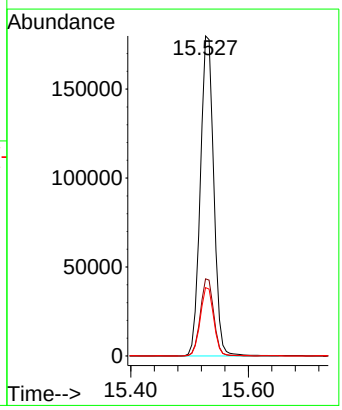


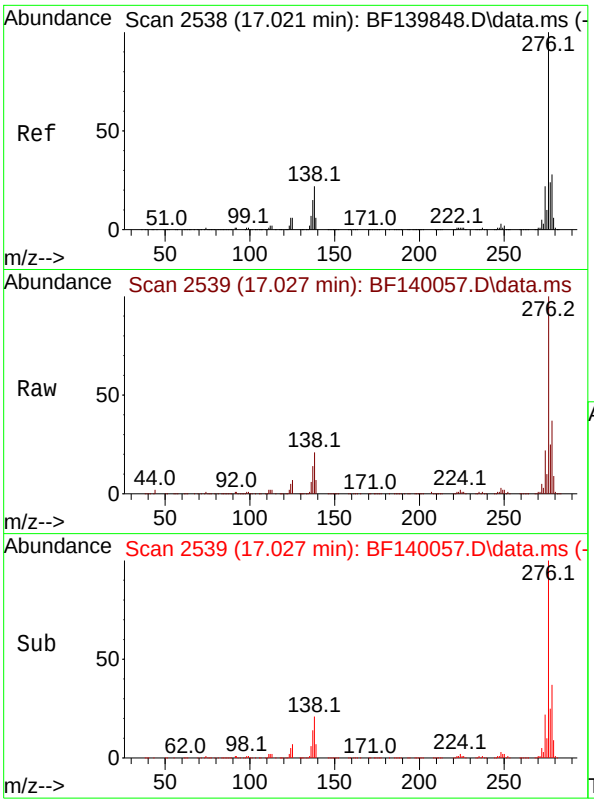


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:264 Resp: 285198

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.4	29.2
265	21.3	17.4	26.0

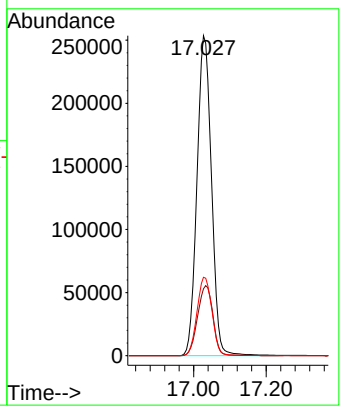




#87
Indeno(1,2,3-cd)pyrene
Concen: 38.304 ng
RT: 17.027 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:276 Resp: 70278

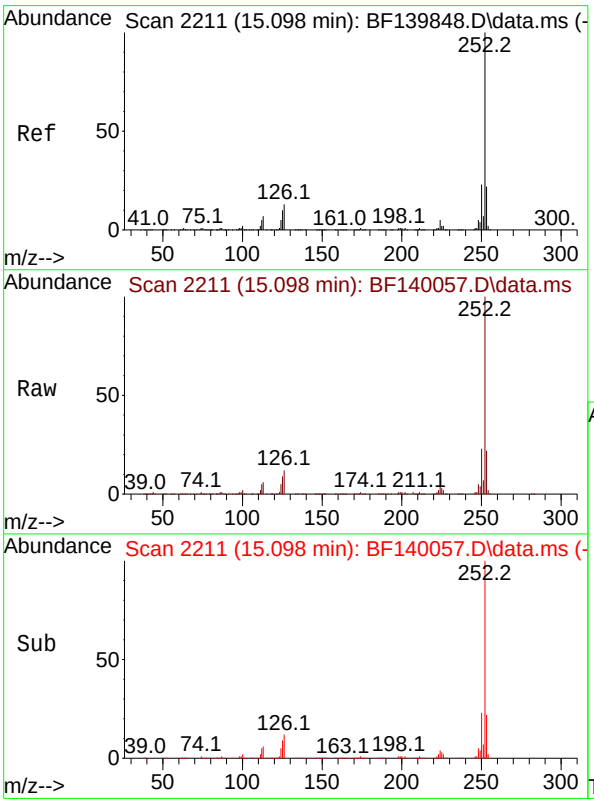
Ion	Ratio	Lower	Upper
276	100		
138	23.2	20.4	30.6
277	25.4	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

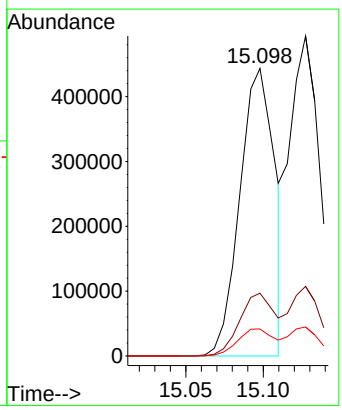
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

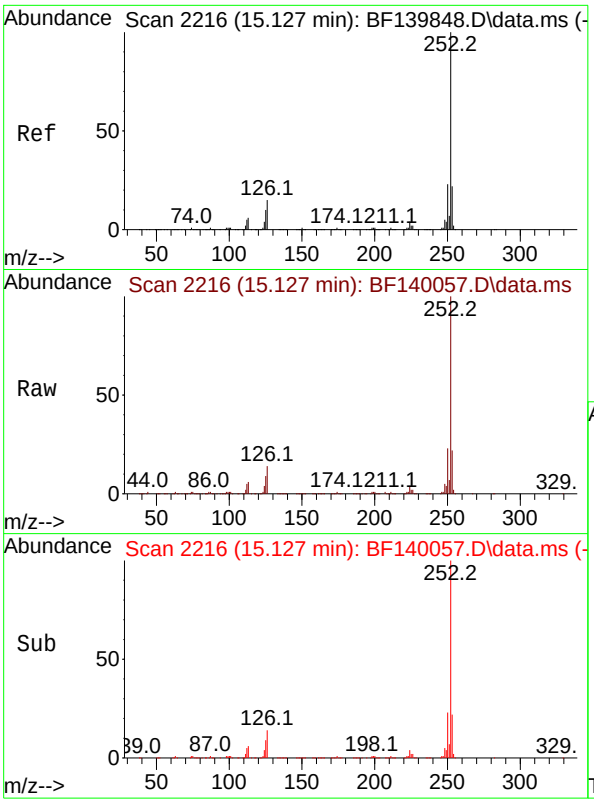


#88
Benzo(b)fluoranthene
Concen: 39.802 ng
RT: 15.098 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:252 Resp: 691475

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	9.4	7.9	11.9





#89
Benzo(k)fluoranthene
Concen: 45.233 ng
RT: 15.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

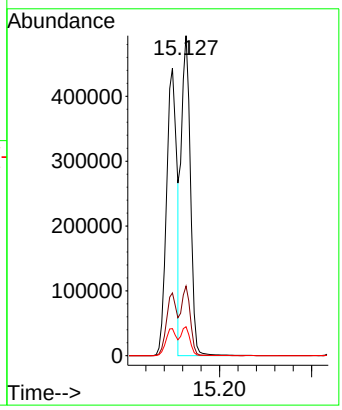
Tgt Ion:252 Resp: 67771

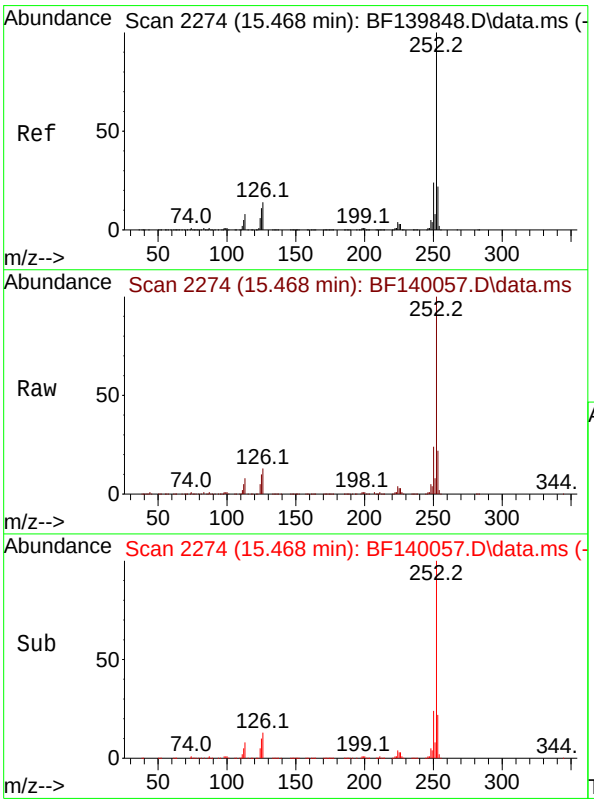
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	9.1	7.9	11.9

Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

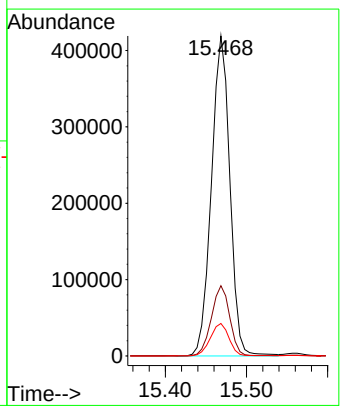


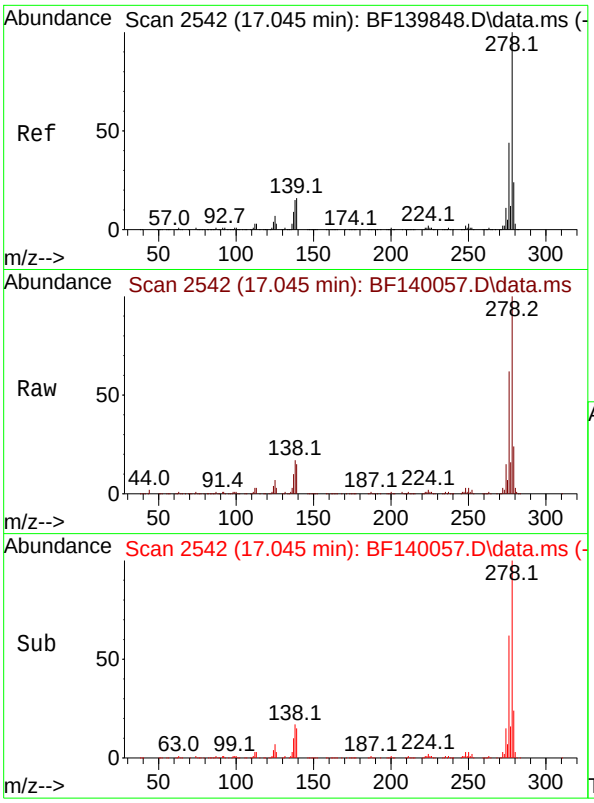


#90
Benzo(a)pyrene
Concen: 46.333 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:252 Resp: 662337

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9
125	10.1	8.7	13.1

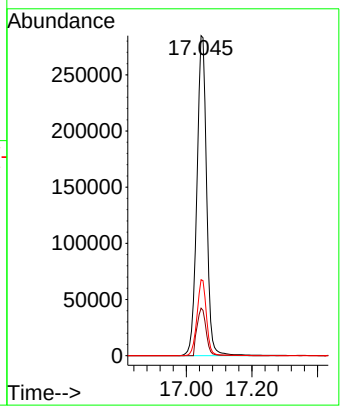




#91
Dibenzo(a,h)anthracene
Concen: 38.449 ng
RT: 17.045 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:278 Resp: 58850

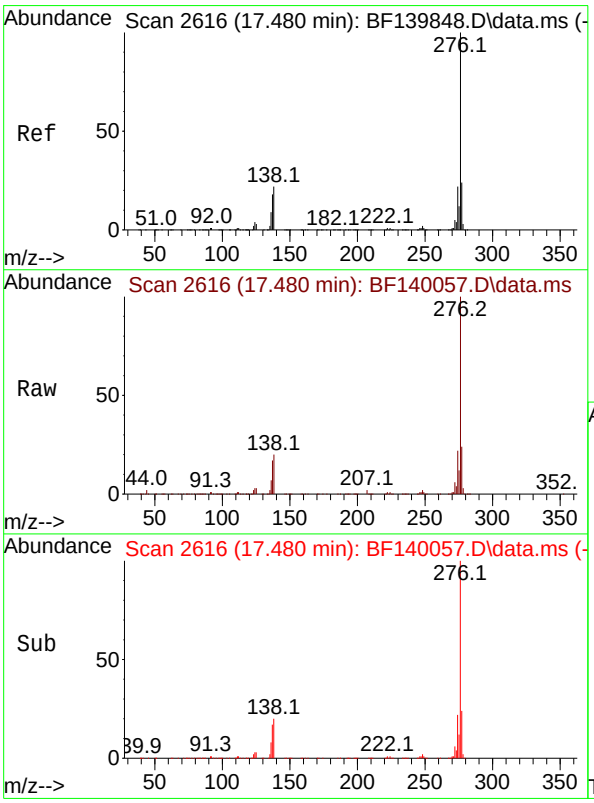
Ion	Ratio	Lower	Upper
278	100		
139	14.8	13.1	19.7
279	23.8	19.0	28.4



Instrument :
BNA_F
ClientSampleId :
BP-F-20MS

Manual Integrations
APPROVED

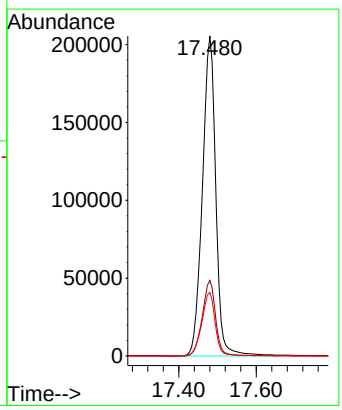
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024



#92
Benzo(g,h,i)perylene
Concen: 32.245 ng
RT: 17.480 min Scan# 2616
Delta R.T. 0.000 min
Lab File: BF140057.D
Acq: 26 Oct 2024 13:58

Tgt Ion:276 Resp: 492985

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.6
138	19.8	17.4	26.0



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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	900		60.1	230	ug/Kg
110-86-1	Pyridine	880		55.3	120	ug/Kg
100-52-7	Benzaldehyde	280		130	230	ug/Kg
62-53-3	Aniline	580		67.1	120	ug/Kg
108-95-2	Phenol	990		57.4	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	970		58.0	120	ug/Kg
95-57-8	2-Chlorophenol	1000		57.8	120	ug/Kg
95-50-1	1,2-Dichlorobenzene	980		58.6	120	ug/Kg
541-73-1	1,3-Dichlorobenzene	950		59.5	120	ug/Kg
106-46-7	1,4-Dichlorobenzene	970		59.9	120	ug/Kg
100-51-6	Benzyl Alcohol	1000		57.5	230	ug/Kg
95-48-7	2-Methylphenol	990		55.8	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	920		62.9	120	ug/Kg
98-86-2	Acetophenone	930		60.2	120	ug/Kg
65794-96-9	3+4-Methylphenols	960		55.3	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	960		27.9	55.4	ug/Kg
67-72-1	Hexachloroethane	970		57.5	120	ug/Kg
98-95-3	Nitrobenzene	940		62.9	120	ug/Kg
78-59-1	Isophorone	990		58.6	120	ug/Kg
88-75-5	2-Nitrophenol	1200		65.4	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		64.5	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	970		59.4	120	ug/Kg
120-83-2	2,4-Dichlorophenol	990		52.3	120	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	930		59.1	120	ug/Kg
65-85-0	Benzoic acid	900		160	230	ug/Kg
91-20-3	Naphthalene	950		57.2	120	ug/Kg
106-47-8	4-Chloroaniline	170		57.2	120	ug/Kg
87-68-3	Hexachlorobutadiene	990		57.7	120	ug/Kg
105-60-2	Caprolactam	1000		60.1	230	ug/Kg

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	1000		53.7	120	ug/Kg
91-57-6	2-Methylnaphthalene	980		57.1	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000		49.4	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	990		51.2	120	ug/Kg
92-52-4	1,1-Biphenyl	950		60.5	120	ug/Kg
91-58-7	2-Chloronaphthalene	940		57.7	120	ug/Kg
88-74-4	2-Nitroaniline	1100		65.8	120	ug/Kg
131-11-3	Dimethylphthalate	1000		56.6	120	ug/Kg
208-96-8	Acenaphthylene	1000		59.9	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		57.6	120	ug/Kg
99-09-2	3-Nitroaniline	450		61.8	120	ug/Kg
83-32-9	Acenaphthene	1100		56.2	120	ug/Kg
51-28-5	2,4-Dinitrophenol	2400	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	2000	E	80.3	230	ug/Kg
132-64-9	Dibenzofuran	980		58.4	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		59.7	120	ug/Kg
84-66-2	Diethylphthalate	990		55.5	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	980		59.3	120	ug/Kg
86-73-7	Fluorene	950		59.2	120	ug/Kg
100-01-6	4-Nitroaniline	1000		74.1	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		81.0	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	990		56.5	120	ug/Kg
103-33-3	Azobenzene	1000		55.1	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000		54.6	120	ug/Kg
118-74-1	Hexachlorobenzene	990		58.9	120	ug/Kg
1912-24-9	Atrazine	1200		63.3	120	ug/Kg
87-86-5	Pentachlorophenol	1900	E	53.5	230	ug/Kg
85-01-8	Phenanthrene	970		58.2	120	ug/Kg
120-12-7	Anthracene	1000		58.4	120	ug/Kg
86-74-8	Carbazole	910		55.6	120	ug/Kg

Raw Data: **BF140058.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	1000		58.4	120	ug/Kg
206-44-0	Fluoranthene	890		56.6	120	ug/Kg
92-87-5	Benzidine	1300		110	230	ug/Kg
129-00-0	Pyrene	980		57.5	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.0	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	530		68.3	230	ug/Kg
56-55-3	Benzo(a)anthracene	1000		55.9	120	ug/Kg
218-01-9	Chrysene	970		55.0	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		63.0	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		76.2	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	920		56.2	120	ug/Kg
207-08-9	Benzo(k)fluoranthene	1000		57.2	120	ug/Kg
50-32-8	Benzo(a)pyrene	1100		64.4	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	890		54.1	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	890		56.2	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	740		55.5	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	960		60.1	120	ug/Kg
123-91-1	1,4-Dioxane	860		76.2	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000		51.7	120	ug/Kg
90-12-0	1-Methylnaphthalene	940		57.6	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.8		18 - 112	61%	SPK: 150
13127-88-3	Phenol-d6	91.9		15 - 107	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.5		18 - 107	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.6		20 - 109	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	109		10 - 116	73%	SPK: 150
1718-51-0	Terphenyl-d14	70.4		10 - 105	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	142000	6.887			
1146-65-2	Naphthalene-d8	562000	8.169			

Raw Data: **BF140058.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	322000	9.928			
1517-22-2	Phenanthrene-d10	560000	11.416			
1719-03-5	Chrysene-d12	269000	14.051			
1520-96-3	Perylene-d12	302000	15.527			

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: **BF140058.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140058.D
Acq On : 26 Oct 2024 14:27
Operator : RC/JU
Sample : P4547-05MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

Quant Time: Oct 28 01:07:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	142054	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	561979	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	322249	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	559748	20.000	ng		0.00
76) Chrysene-d12	14.051	240	268566	20.000	ng		0.00
86) Perylene-d12	15.527	264	301700	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	824345	90.846	ng		0.02
7) Phenol-d6	6.516	99	1080454	91.935	ng		0.00
23) Nitrobenzene-d5	7.451	82	674216	66.493	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	328432	108.961	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1200203	61.554	ng		0.00
79) Terphenyl-d14	12.998	244	1160835	70.432	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.781	88	156835	37.070	ng		94
3) Pyridine	3.534	79	402011	38.335	ng		96
4) n-Nitrosodimethylamine	3.487	42	219761	39.004	ng		100
6) Aniline	6.551	93	276260	25.222	ng		99
8) 2-Chlorophenol	6.675	128	408038	43.986	ng		97
9) Benzaldehyde	6.440	77	81061	12.261	ng		95
10) Phenol	6.528	94	517107m	42.679	ng		
11) bis(2-Chloroethyl)ether	6.622	93	394709	42.148	ng		100
12) 1,3-Dichlorobenzene	6.834	146	437639	41.098	ng		99
13) 1,4-Dichlorobenzene	6.910	146	445597	41.885	ng		99
14) 1,2-Dichlorobenzene	7.057	146	419551	42.255	ng		100
15) Benzyl Alcohol	7.028	79	378462	43.901	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	637762	39.939	ng		97
17) 2-Methylphenol	7.140	107	339920	42.973	ng		99
18) Hexachloroethane	7.404	117	159492	42.041	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	296701	41.626	ng		96
20) 3+4-Methylphenols	7.292	107	421761	41.686	ng	#	79
22) Acetophenone	7.298	105	556712	40.445	ng		99
24) Nitrobenzene	7.469	77	453576	40.800	ng		100
25) Isophorone	7.710	82	822671	42.747	ng		99
26) 2-Nitrophenol	7.787	139	216809	51.695	ng		97
27) 2,4-Dimethylphenol	7.822	122	340561	48.698	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	489036	41.941	ng		99
29) 2,4-Dichlorophenol	8.028	162	342180	42.958	ng		98
30) 1,2,4-Trichlorobenzene	8.110	180	355931	40.383	ng		99
31) Naphthalene	8.192	128	1193530	41.180	ng		100
32) Benzoic acid	7.934	122	238740	39.141	ng		98
33) 4-Chloroaniline	8.234	127	70818	7.166	ng		99
34) Hexachlorobutadiene	8.310	225	237240	42.839	ng		97
35) Caprolactam	8.616	113	110070m	43.459	ng		
36) 4-Chloro-3-methylphenol	8.722	107	382812	43.402	ng		97
37) 2-Methylnaphthalene	8.886	142	755092	42.539	ng		99
38) 1-Methylnaphthalene	8.986	142	711197	40.837	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	361413	41.571	ng		99
41) Hexachlorocyclopentadiene	9.039	237	402242	132.972	ng		99
43) 2,4,6-Trichlorophenol	9.163	196	267400	43.444	ng		100

Sample Results: **BF140058.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140058.D
Acq On : 26 Oct 2024 14:27
Operator : RC/JU
Sample : P4547-05MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

Quant Time: Oct 28 01:07:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	271347	42.729	ng		98
46) 1,1'-Biphenyl	9.351	154	924197	41.198	ng		99
47) 2-Chloronaphthalene	9.375	162	737377	40.811	ng		99
48) 2-Nitroaniline	9.469	65	252803	45.748	ng		93
49) Acenaphthylene	9.792	152	1155795	44.248	ng		99
50) Dimethylphthalate	9.651	163	865826	43.136	ng		100
51) 2,6-Dinitrotoluene	9.710	165	192511	44.296	ng		98
52) Acenaphthene	9.963	154	791831	46.861	ng		99
53) 3-Nitroaniline	9.875	138	87805	19.591	ng		96
54) 2,4-Dinitrophenol	9.986	184	190676	103.509	ng	#	1
55) Dibenzofuran	10.133	168	1024437	42.255	ng		99
56) 4-Nitrophenol	10.033	139	294610	85.441	ng		98
57) 2,4-Dinitrotoluene	10.116	165	259324	48.522	ng		96
58) Fluorene	10.480	166	763576	41.351	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	222301	44.654	ng		97
60) Diethylphthalate	10.351	149	848877	43.073	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	394137	42.266	ng		99
62) 4-Nitroaniline	10.492	138	185680	43.866	ng		97
63) Azobenzene	10.628	77	943502	45.157	ng		96
65) 4,6-Dinitro-2-methylph...	10.522	198	133632	58.529	ng		92
66) n-Nitrosodiphenylamine	10.586	169	719231	42.931	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	255438	44.297	ng		97
68) Hexachlorobenzene	11.022	284	278683	42.971	ng		99
69) Atrazine	11.110	200	234785	51.736	ng		99
70) Pentachlorophenol	11.216	266	319223	81.104	ng		99
71) Phenanthrene	11.439	178	1107932	41.903	ng		100
72) Anthracene	11.492	178	1122946	43.530	ng		100
73) Carbazole	11.645	167	949310	39.568	ng		99
74) Di-n-butylphthalate	11.975	149	1231008	44.411	ng		100
75) Fluoranthene	12.627	202	1025877	38.381	ng		99
77) Benzidine	12.745	184	244595	55.387	ng		99
78) Pyrene	12.857	202	999723	42.526	ng		100
80) Butylbenzylphthalate	13.469	149	394890	56.030	ng		100
81) Benzo(a)anthracene	14.039	228	783816	44.834	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	117434	23.038	ng		98
83) Chrysene	14.080	228	674804	42.097	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	503026	63.615	ng		99
85) Di-n-octyl phthalate	14.645	149	801243	55.709	ng		97
87) Indeno(1,2,3-cd)pyrene	17.027	276	747072	38.491	ng		98
88) Benzo(b)fluoranthene	15.098	252	730351	39.740	ng		99
89) Benzo(k)fluoranthene	15.127	252	718601	45.338	ng		99
90) Benzo(a)pyrene	15.468	252	704184	46.566	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	623175	38.488	ng		98
92) Benzo(g,h,i)perylene	17.480	276	516906	31.961	ng		98

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

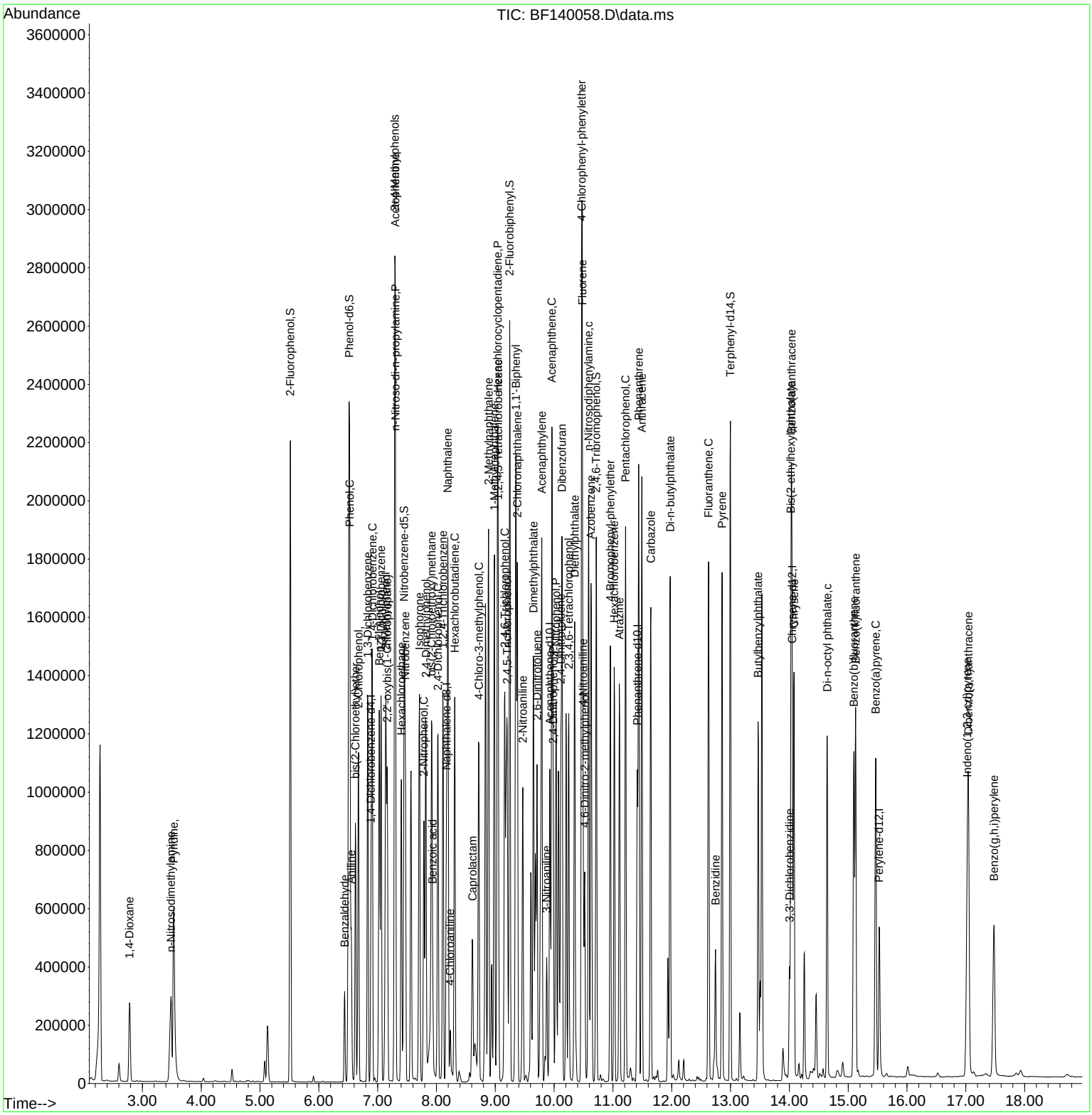
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140058.D
Acq On : 26 Oct 2024 14:27
Operator : RC/JU
Sample : P4547-05MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

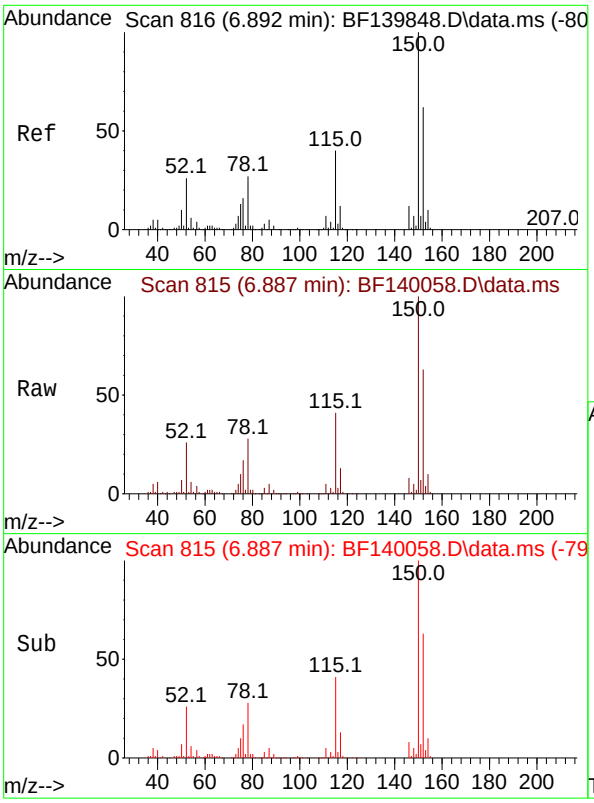
Quant Time: Oct 28 01:07:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

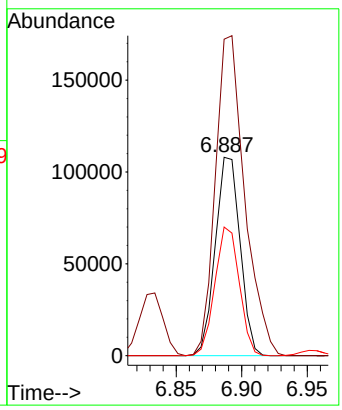




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:152 Resp: 14205

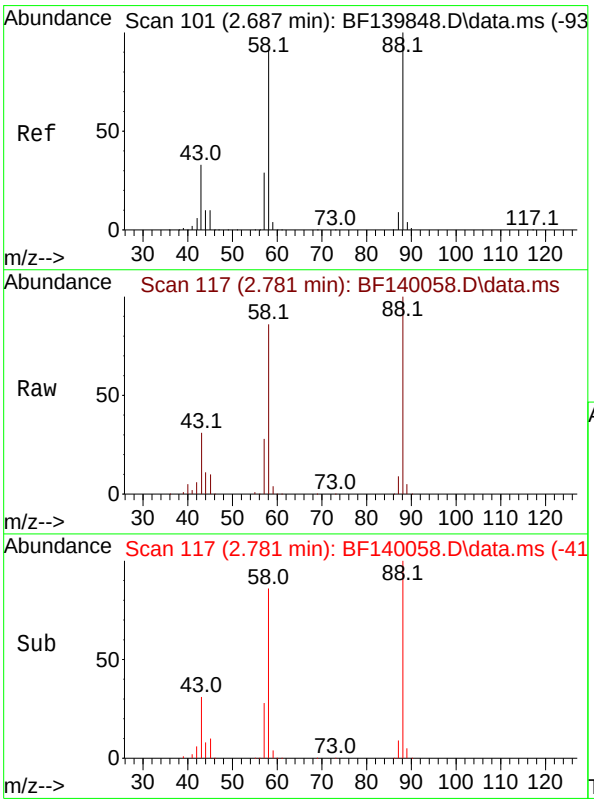
Ion	Ratio	Lower	Upper
152	100		
150	159.5	130.2	195.2
115	64.8	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

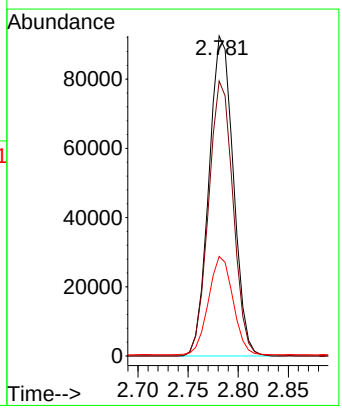
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

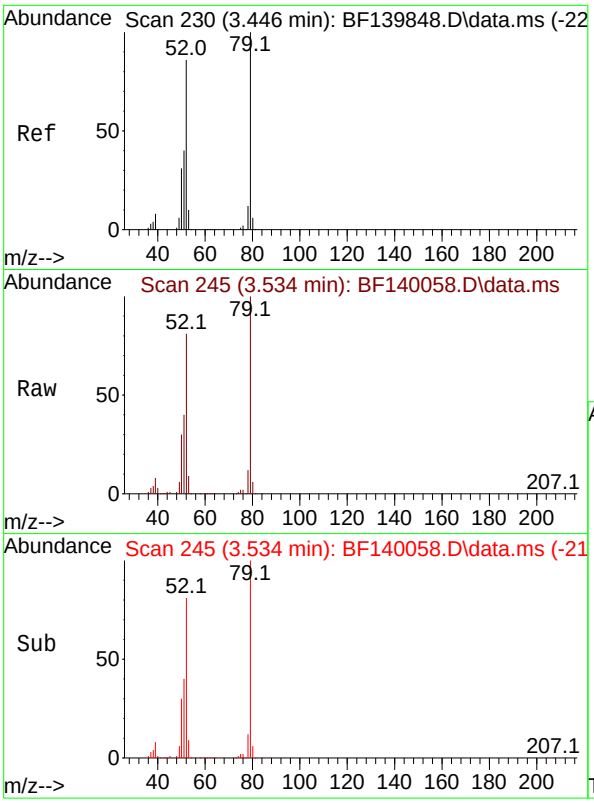


#2
1,4-Dioxane
Concen: 37.070 ng
RT: 2.781 min Scan# 117
Delta R.T. 0.094 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion: 88 Resp: 156835

Ion	Ratio	Lower	Upper
88	100		
58	86.1	73.3	109.9
43	30.8	27.1	40.7





#3
Pyridine
Concen: 38.335 ng
RT: 3.534 min Scan# 2
Delta R.T. 0.088 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

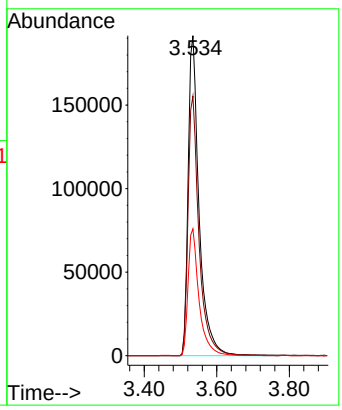
Tgt Ion: 79 Resp: 40201

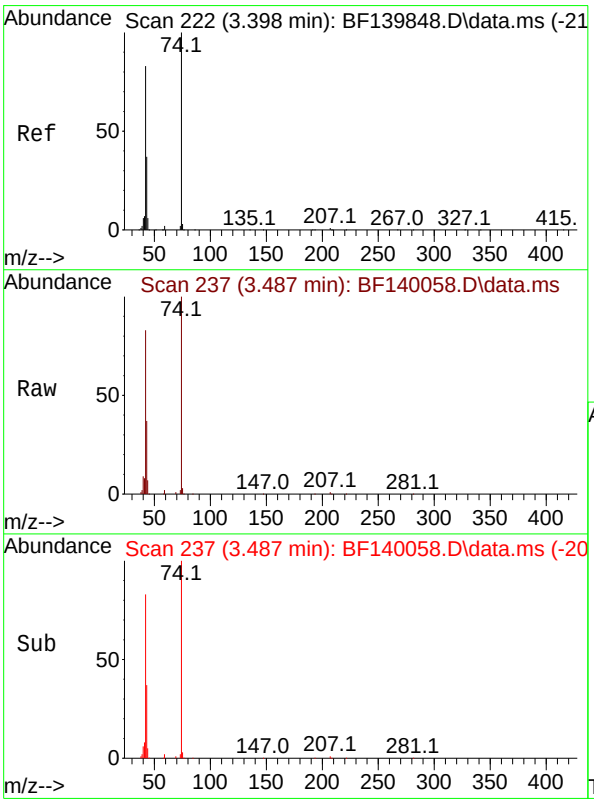
Ion	Ratio	Lower	Upper
79	100		
52	81.1	68.5	102.7
51	39.6	32.3	48.5

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

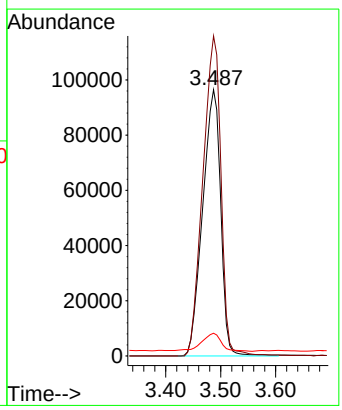


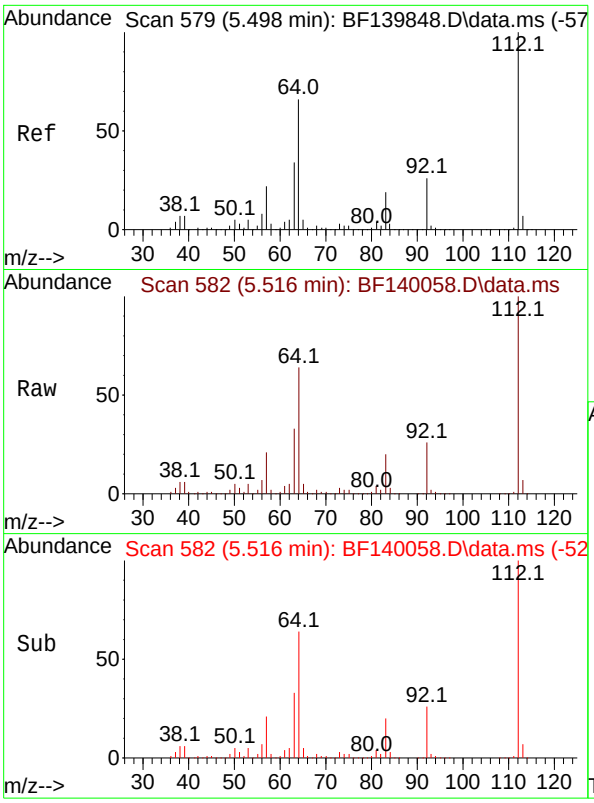


#4
n-Nitrosodimethylamine
Concen: 39.004 ng
RT: 3.487 min Scan# 237
Delta R.T. 0.088 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion: 42 Resp: 219761

Ion	Ratio	Lower	Upper
42	100		
74	120.2	96.2	144.4
44	8.5	6.2	9.2

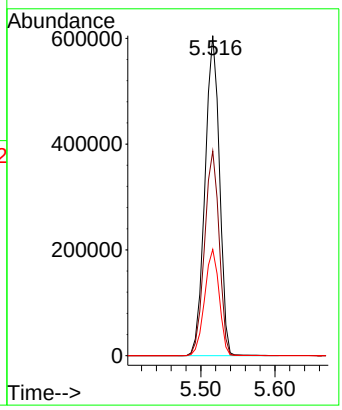




#5
2-Fluorophenol
Concen: 90.846 ng
RT: 5.516 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:112 Resp: 82434

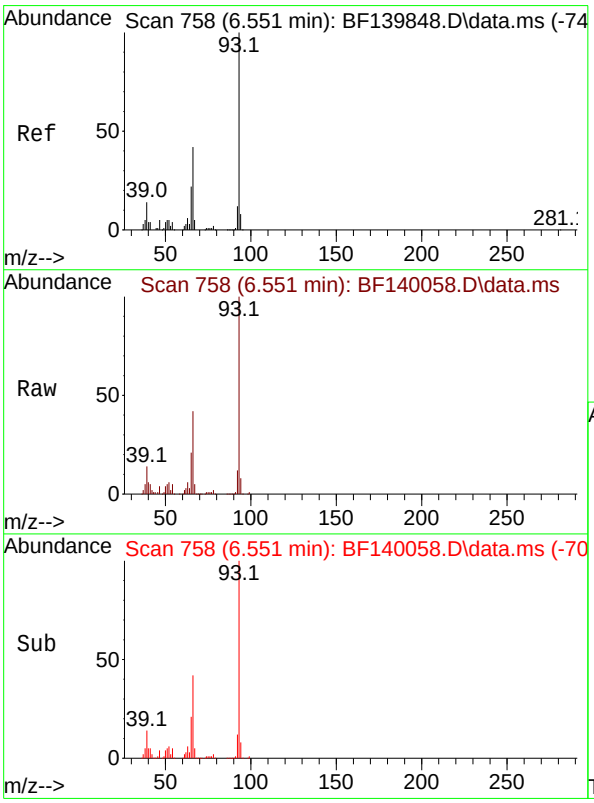
Ion	Ratio	Lower	Upper
112	100		
64	64.0	53.0	79.6
63	33.2	27.0	40.4



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

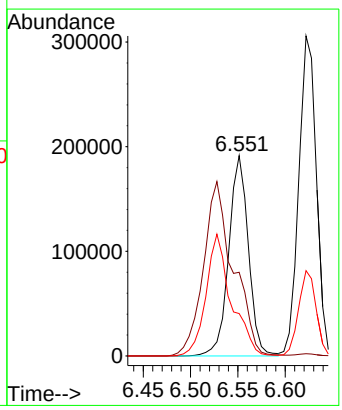
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

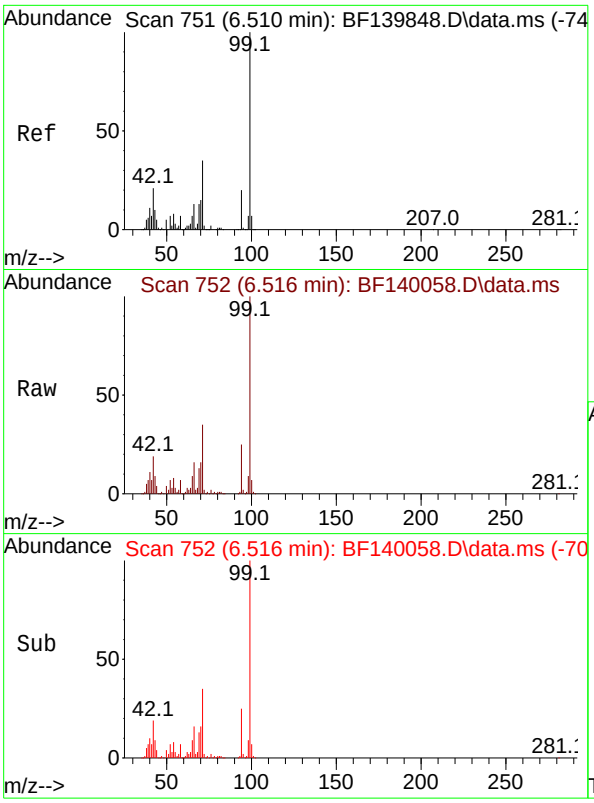


#6
Aniline
Concen: 25.222 ng
RT: 6.551 min Scan# 758
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion: 93 Resp: 276260

Ion	Ratio	Lower	Upper
93	100		
66	41.8	34.0	51.0
65	21.2	17.4	26.0





#7
Phenol-d6
Concen: 91.935 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

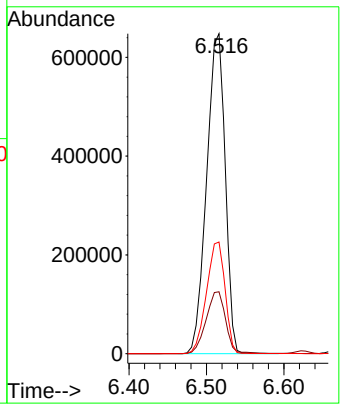
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

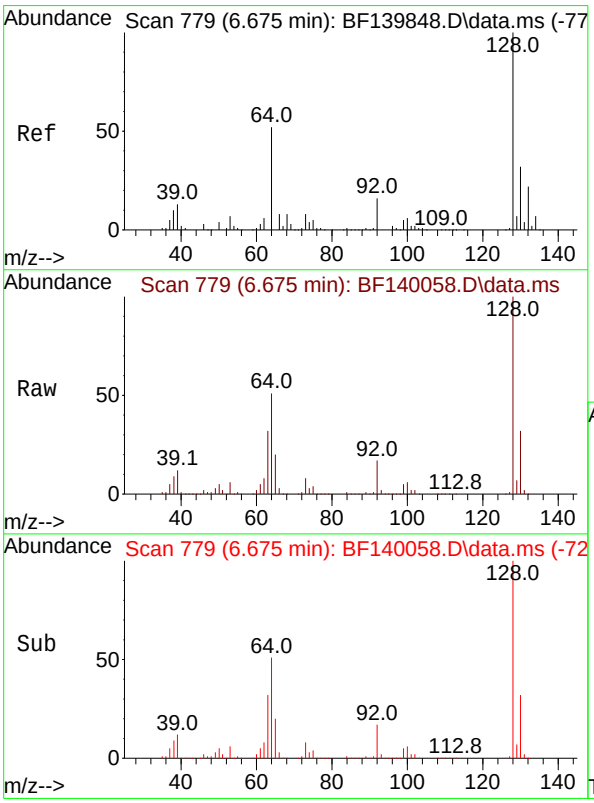
Tgt Ion: 99 Resp: 108045

Ion	Ratio	Lower	Upper
99	100		
42	19.4	16.7	25.1
71	34.9	27.7	41.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

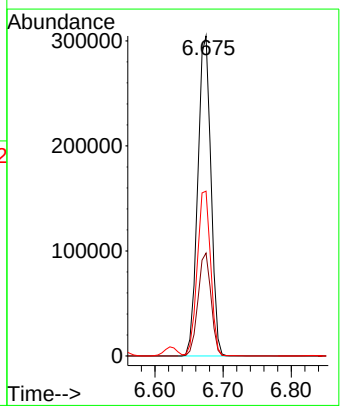


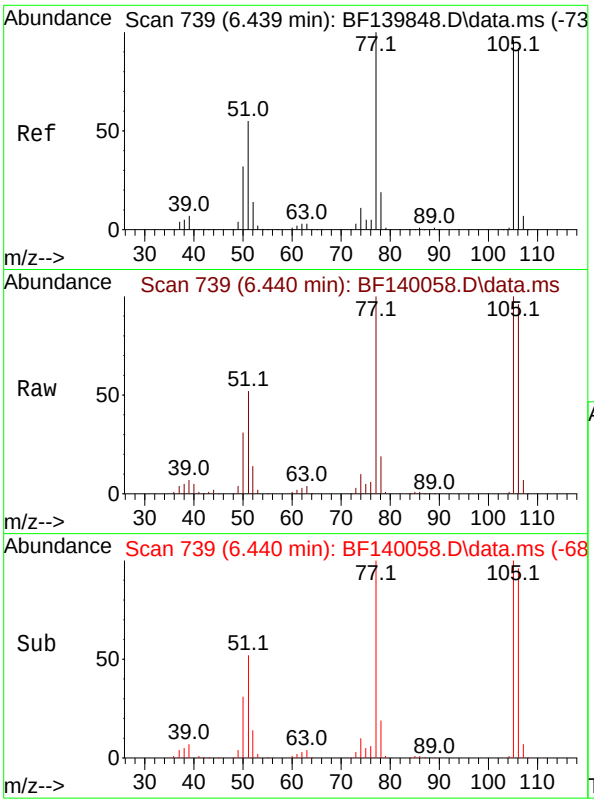


#8
2-Chlorophenol
Concen: 43.986 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:128 Resp: 408038

Ion	Ratio	Lower	Upper
128	100		
130	32.1	12.3	52.3
64	51.5	34.6	74.6





#9
Benzaldehyde
Concen: 12.261 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

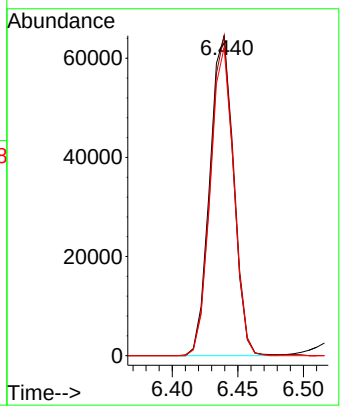
Tgt Ion: 77 Resp: 8106

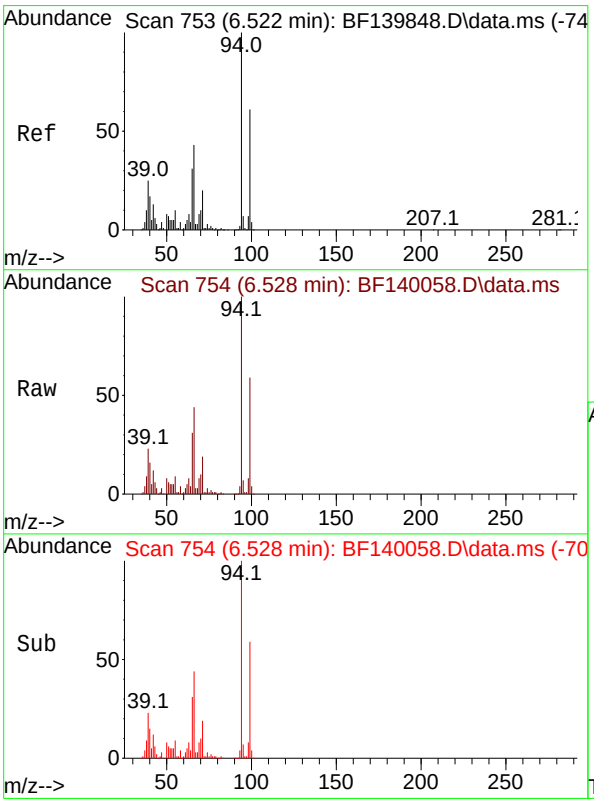
Ion	Ratio	Lower	Upper
77	100		
105	100.2	75.5	115.5
106	96.4	71.7	111.7

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

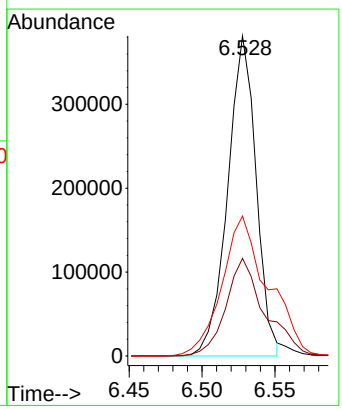


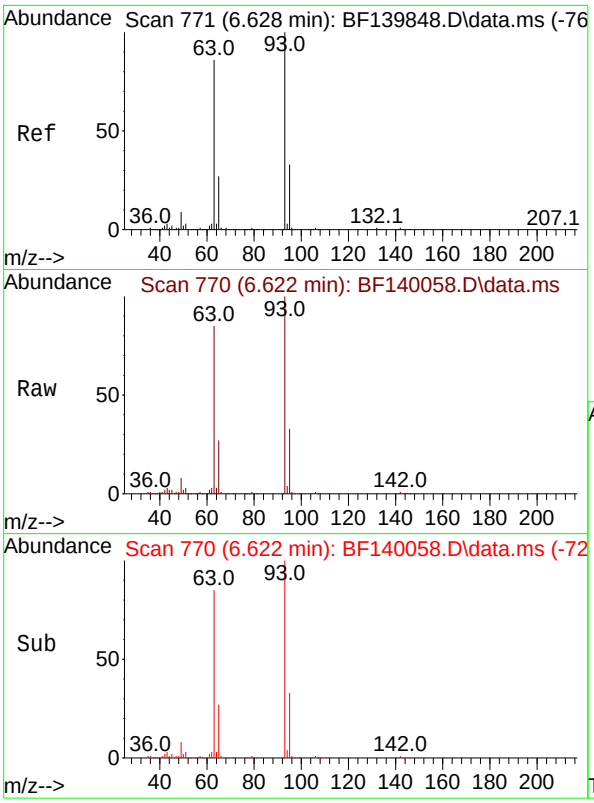


#10
Phenol
Concen: 42.679 ng m
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion: 94 Resp: 517107

Ion	Ratio	Lower	Upper
94	100		
65	30.5	11.1	51.1
66	43.7	22.7	62.7





#11
bis(2-Chloroethyl)ether
Concen: 42.148 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

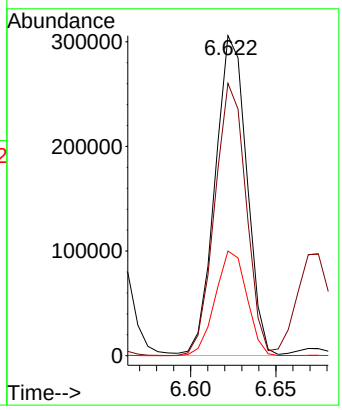
Tgt Ion: 93 Resp: 39470

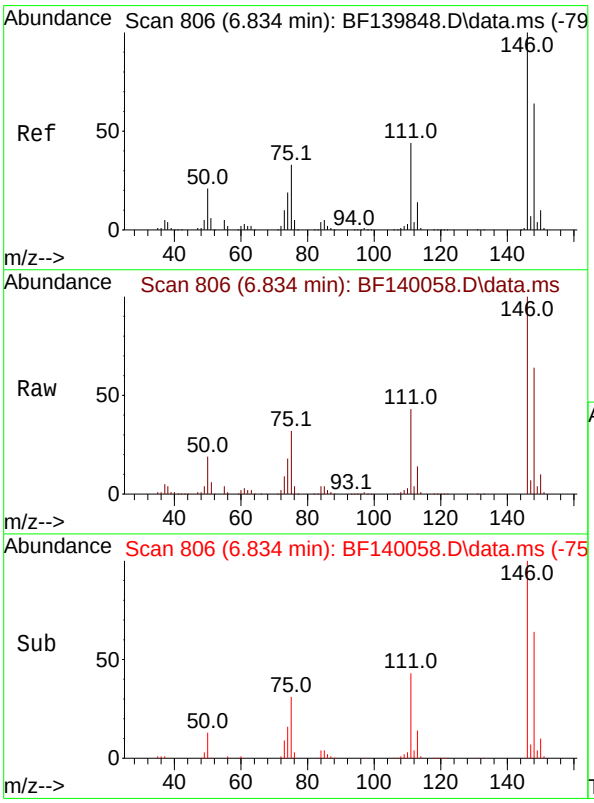
Ion	Ratio	Lower	Upper
93	100		
63	85.1	65.0	105.0
95	32.7	12.4	52.4

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

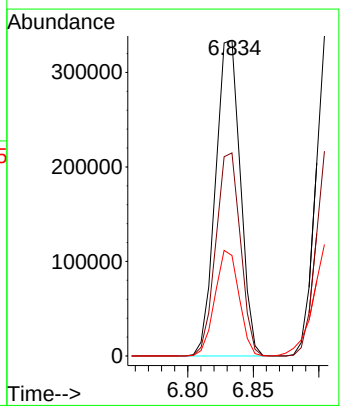


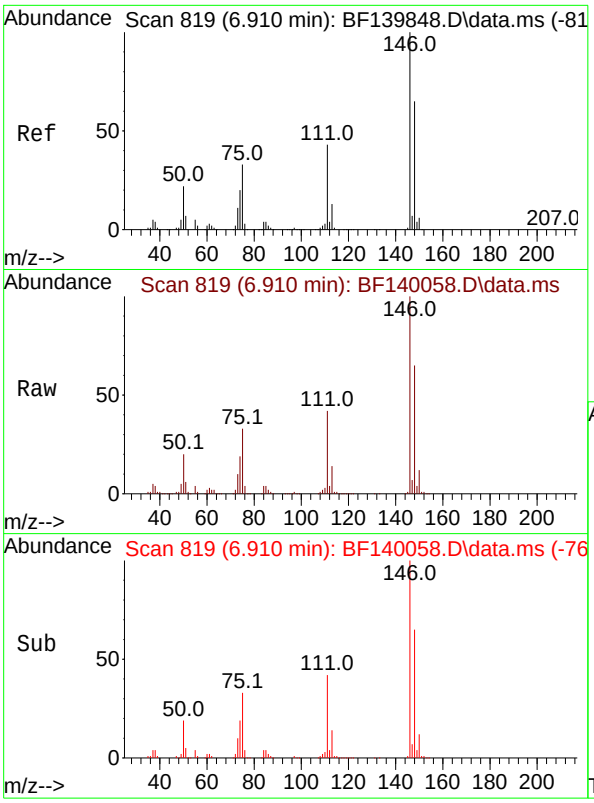


#12
1,3-Dichlorobenzene
Concen: 41.098 ng
RT: 6.834 min Scan# 806
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:146 Resp: 437639

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.0	76.4
75	31.8	26.4	39.6

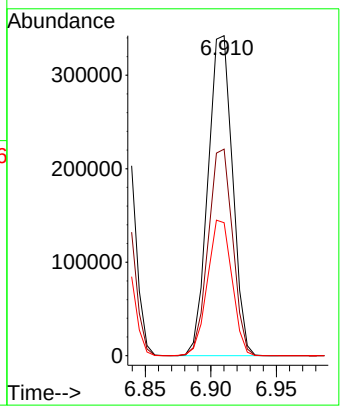




#13
1,4-Dichlorobenzene
Concen: 41.885 ng
RT: 6.910 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:146 Resp: 44559

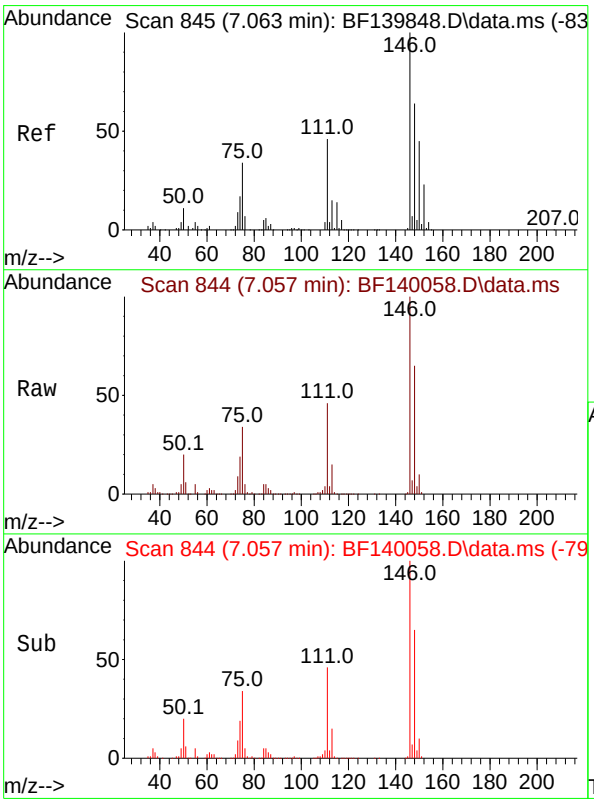
Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.8	77.8
111	41.5	34.6	51.8



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

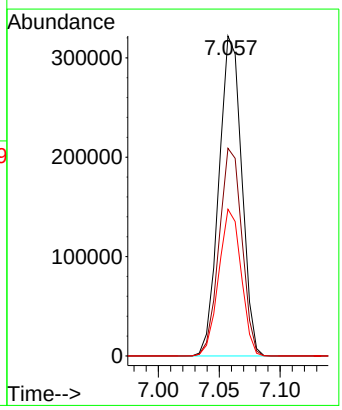
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

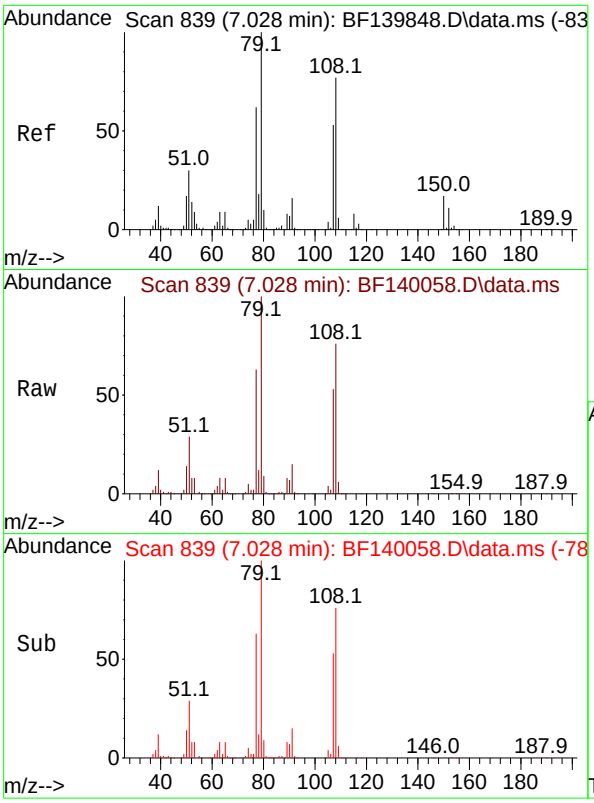


#14
1,2-Dichlorobenzene
Concen: 42.255 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:146 Resp: 419551

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.4	77.2
111	45.9	36.7	55.1





#15
Benzyl Alcohol
Concen: 43.901 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

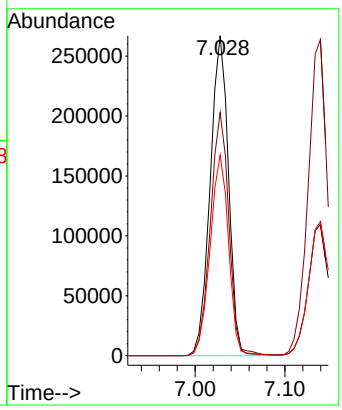
Tgt Ion: 79 Resp: 37846

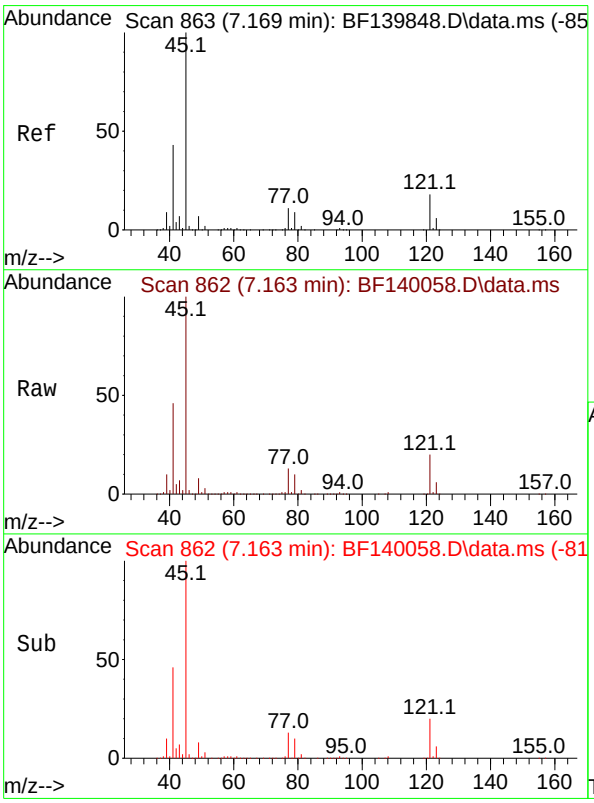
Ion	Ratio	Lower	Upper
79	100		
108	76.0	61.4	92.0
77	62.7	49.9	74.9

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

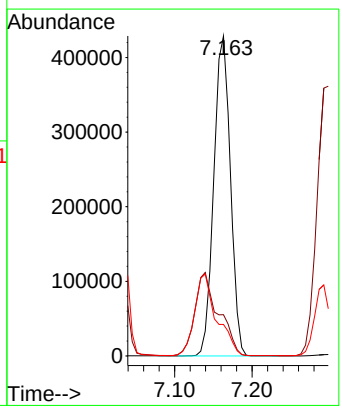


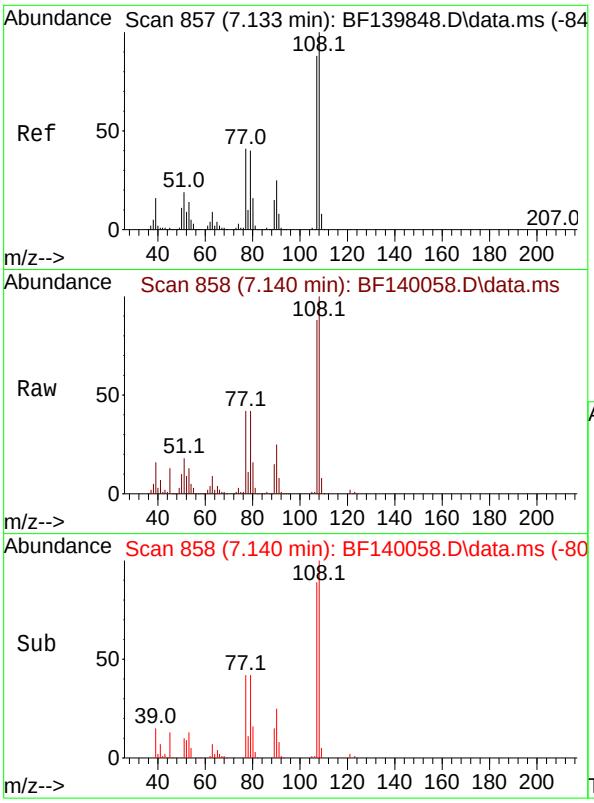


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.939 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion: 45 Resp: 637762

Ion	Ratio	Lower	Upper
45	100		
77	12.9	0.0	31.5
79	9.8	0.0	29.1

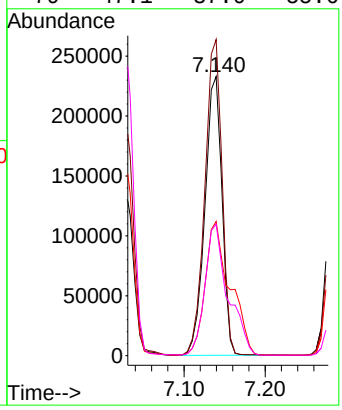




#17
2-Methylphenol
Concen: 42.973 ng
RT: 7.140 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

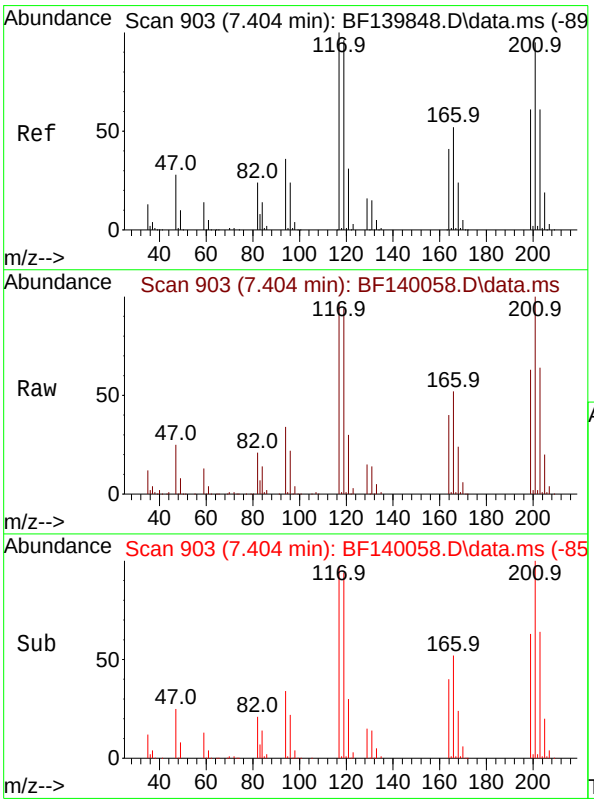
Tgt Ion:107 Resp: 33992

Ion	Ratio	Lower	Upper
107	100		
108	113.3	91.3	136.9
77	48.1	37.1	55.7
79	47.1	37.0	55.6



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

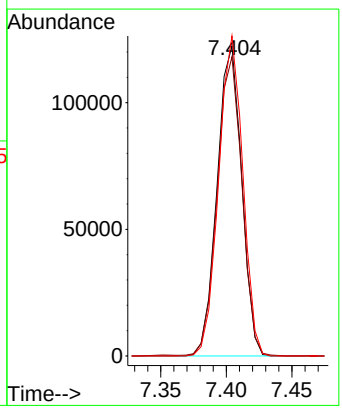
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

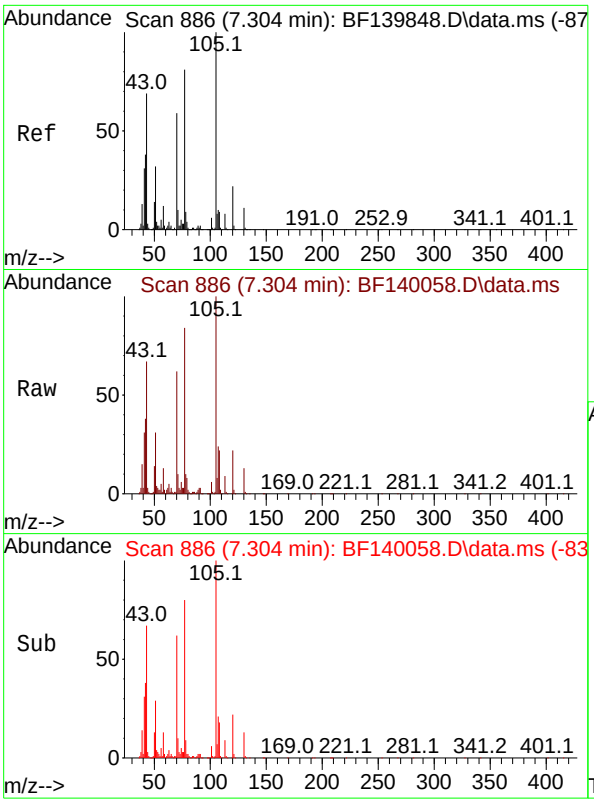


#18
Hexachloroethane
Concen: 42.041 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:117 Resp: 159492

Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.0	115.4
201	103.2	76.2	114.4

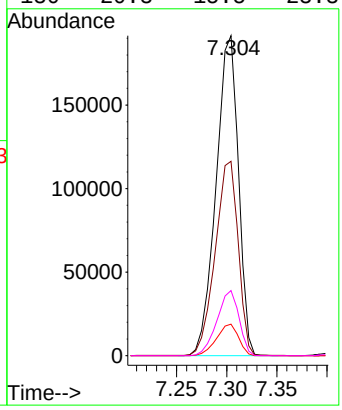




#19
n-Nitroso-di-n-propylamine
Concen: 41.626 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion: 70 Resp: 29670

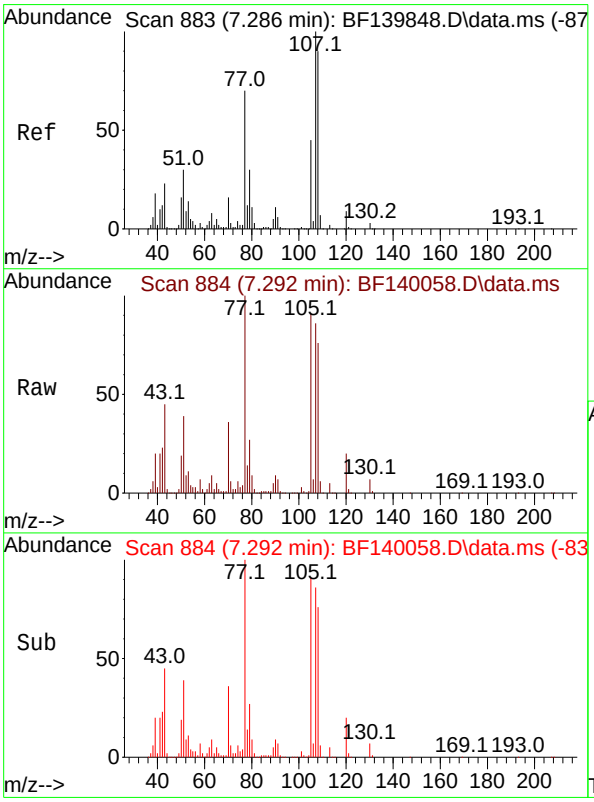
Ion	Ratio	Lower	Upper
70	100		
42	60.8	51.5	77.3
101	9.8	7.5	11.3
130	20.3	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

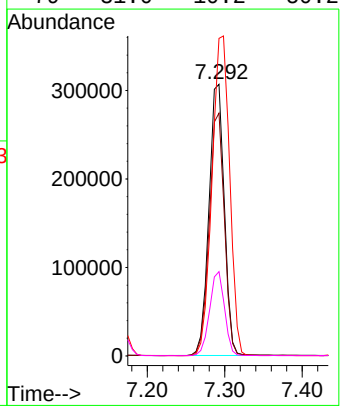
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

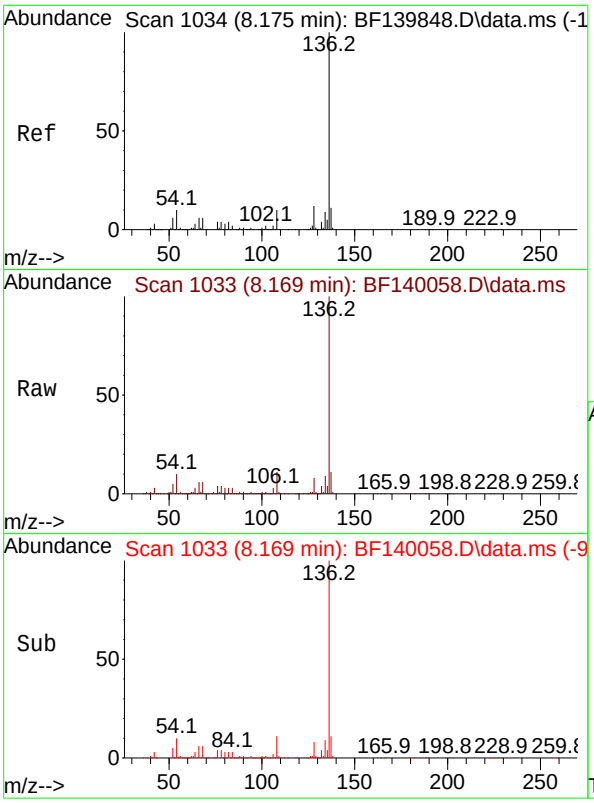


#20
3+4-Methylphenols
Concen: 41.686 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:107 Resp: 421761

Ion	Ratio	Lower	Upper
107	100		
108	89.4	69.8	109.8
77	117.0	50.5	90.5#
79	31.0	10.2	50.2

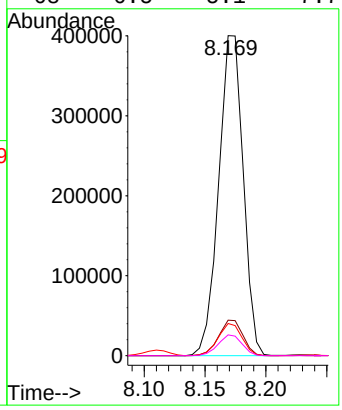




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:136 Resp: 56197

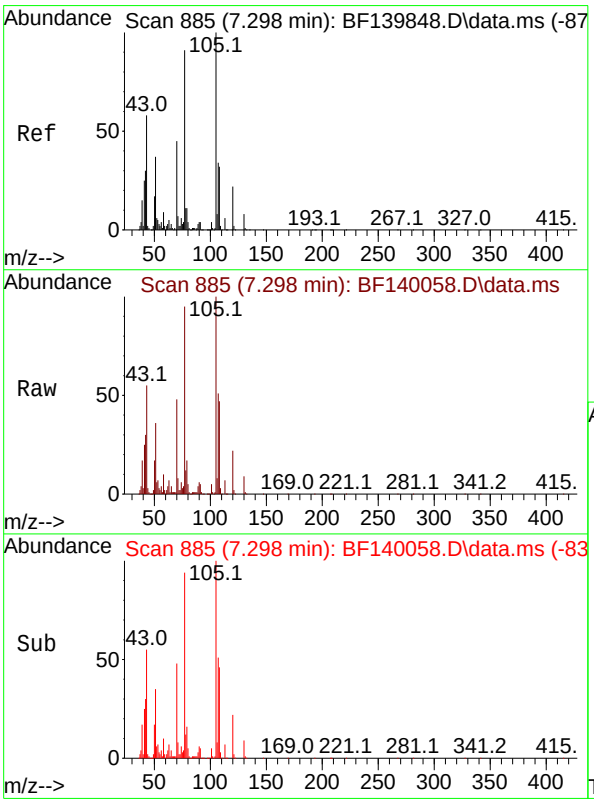
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	12.8
54	10.1	8.4	12.6
68	6.5	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

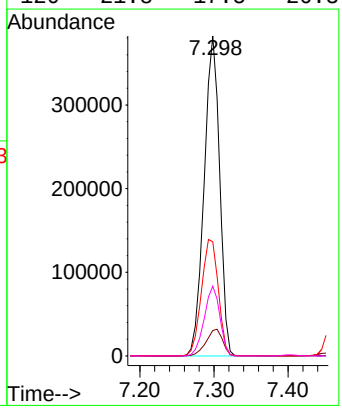
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

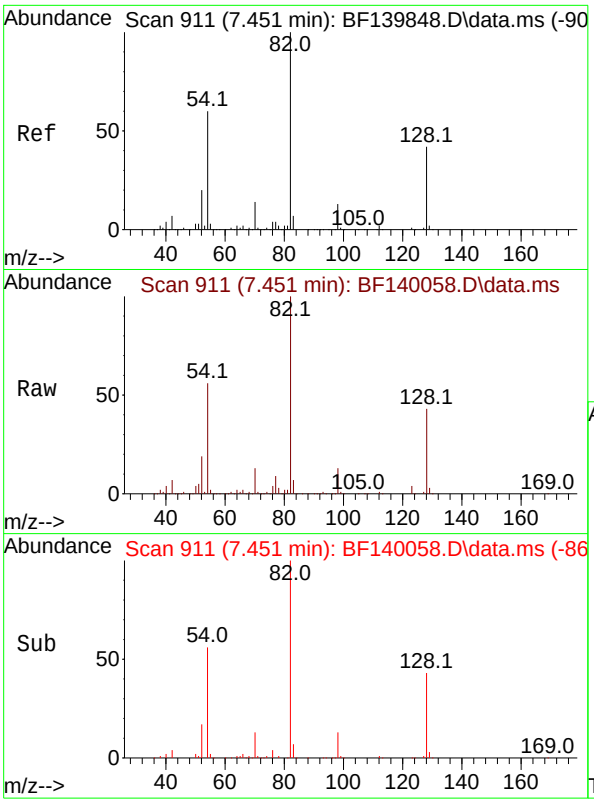


#22
Acetophenone
Concen: 40.445 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:105 Resp: 556712

Ion	Ratio	Lower	Upper
105	100		
71	7.9	5.9	8.9
51	35.7	29.4	44.2
120	21.8	17.5	26.3





#23
Nitrobenzene-d5
Concen: 66.493 ng
RT: 7.451 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

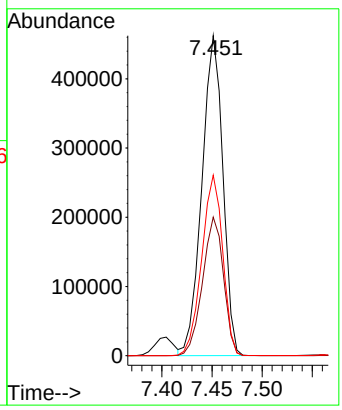
Tgt Ion: 82 Resp: 67421

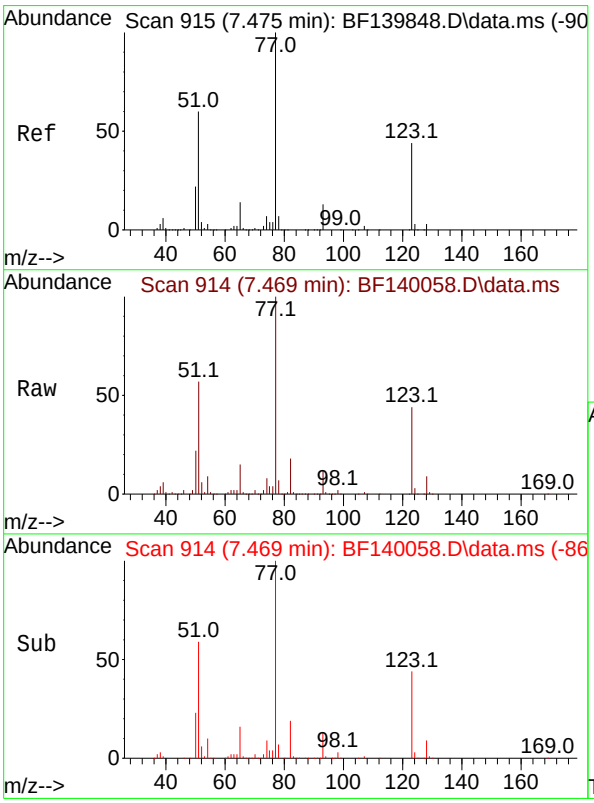
Ion	Ratio	Lower	Upper
82	100		
128	43.3	33.4	50.0
54	56.4	47.8	71.8

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

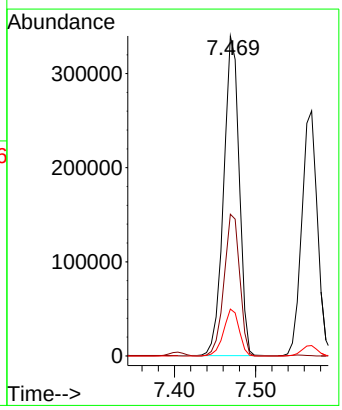


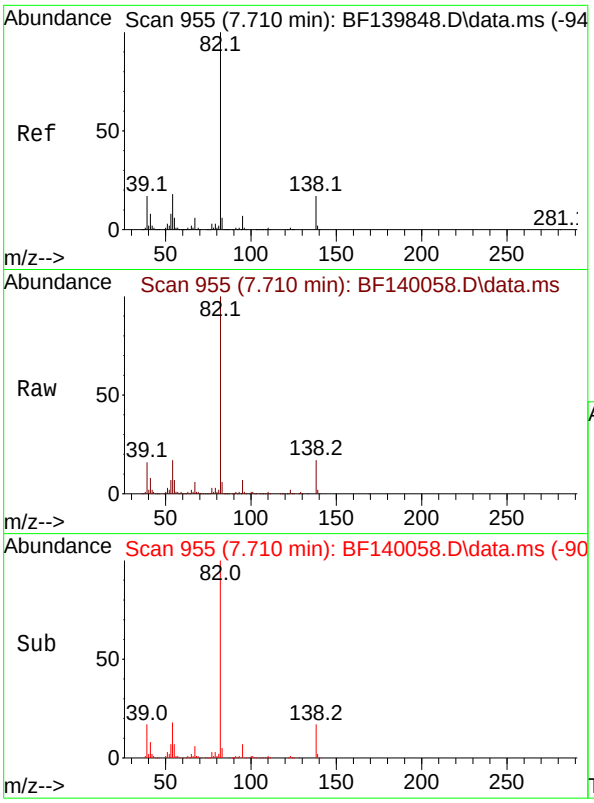


#24
Nitrobenzene
Concen: 40.800 ng
RT: 7.469 min Scan# 914
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion: 77 Resp: 453576

Ion	Ratio	Lower	Upper
77	100		
123	44.3	35.7	53.5
65	14.7	11.5	17.3





#25
Isophorone
Concen: 42.747 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

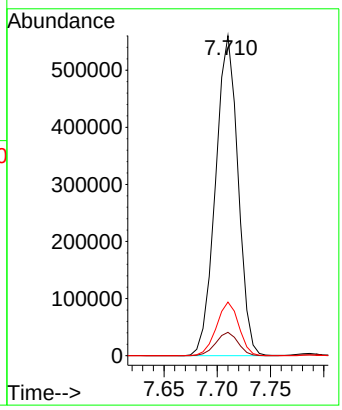
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

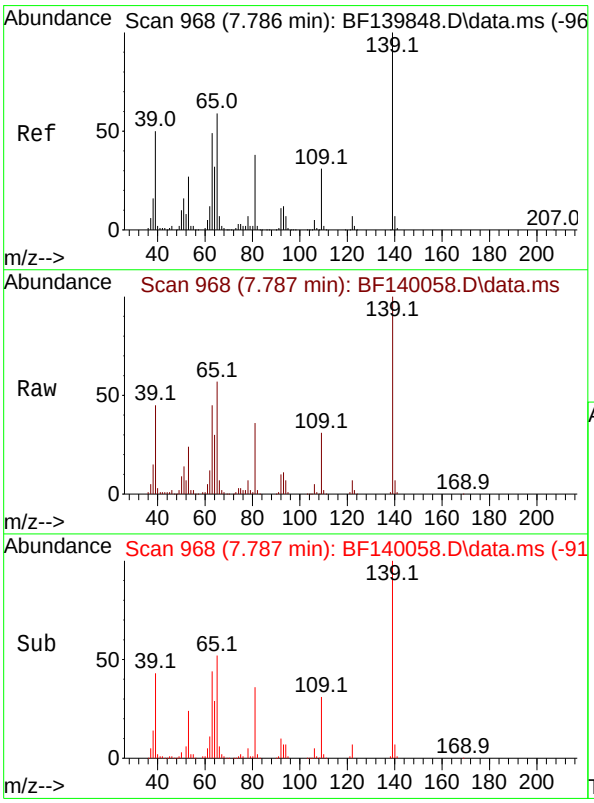
Tgt Ion: 82 Resp: 82267

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.5	8.3
138	16.7	13.2	19.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

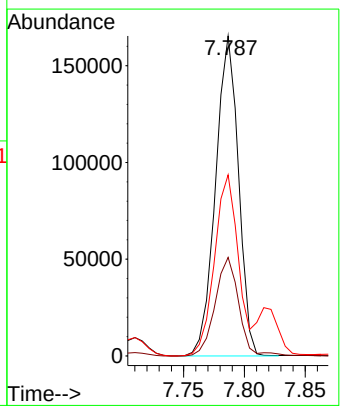


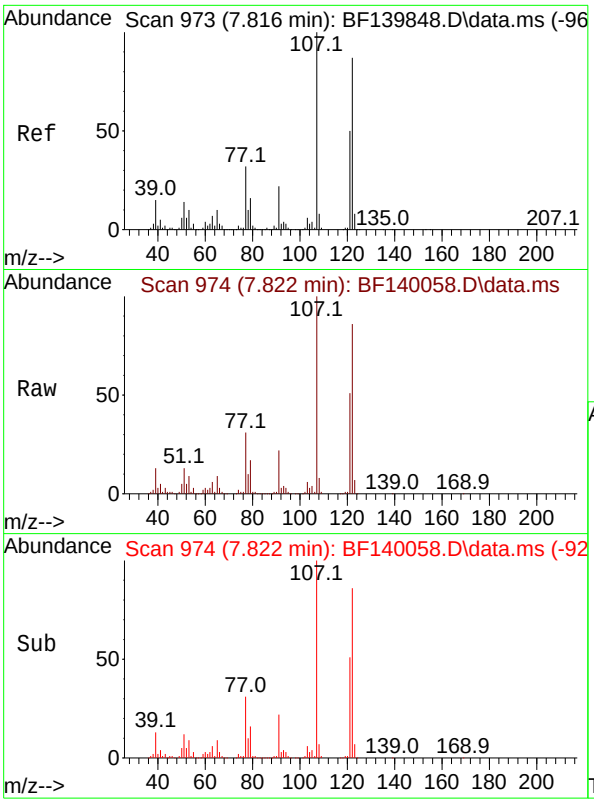


#26
2-Nitrophenol
Concen: 51.695 ng
RT: 7.787 min Scan# 968
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:139 Resp: 216809

Ion	Ratio	Lower	Upper
139	100		
109	30.8	25.1	37.7
65	56.6	47.5	71.3





#27
2,4-Dimethylphenol
Concen: 48.698 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

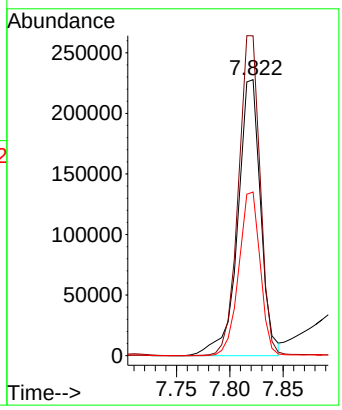
Tgt Ion:122 Resp: 34056

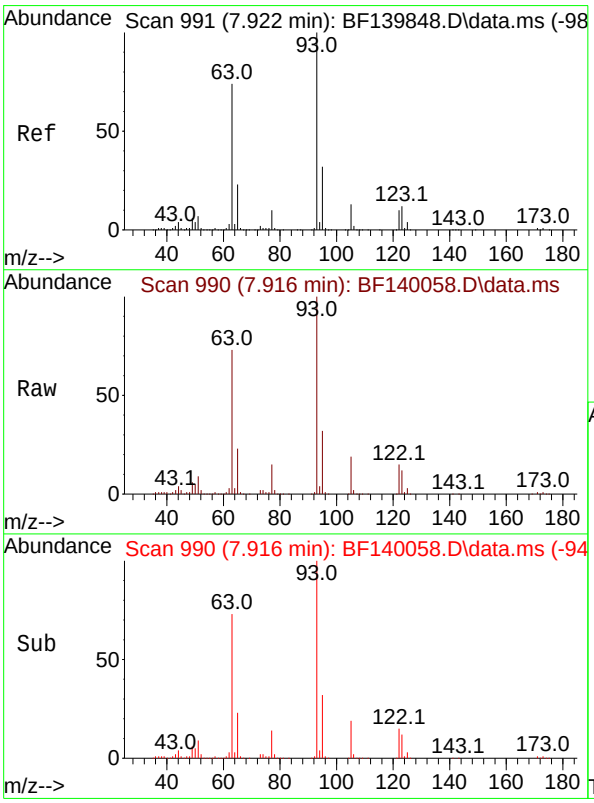
Ion	Ratio	Lower	Upper
122	100		
107	115.9	91.9	137.9
121	59.3	46.2	69.4

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

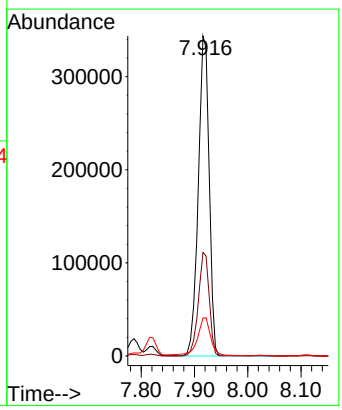


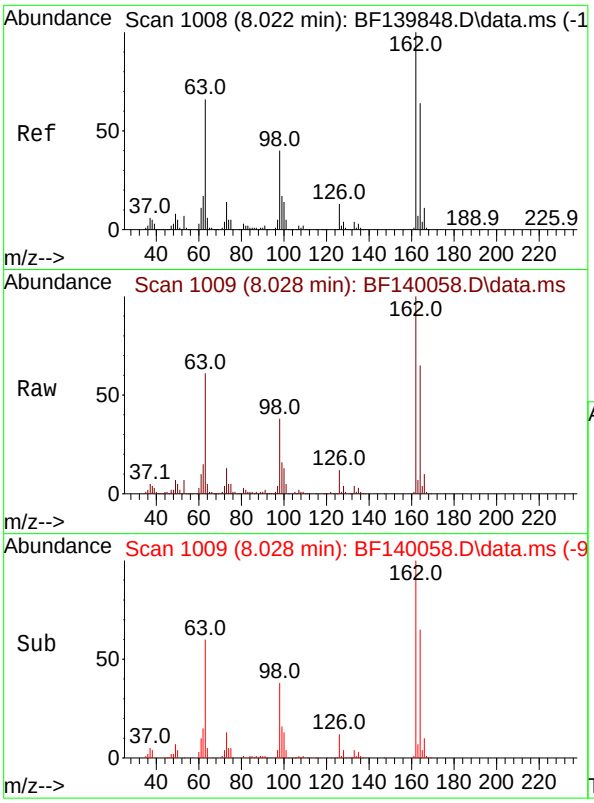


#28
bis(2-Chloroethoxy)methane
Concen: 41.941 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion: 93 Resp: 489036

Ion	Ratio	Lower	Upper
93	100		
95	32.3	26.0	39.0
123	11.9	9.8	14.8





#29
2,4-Dichlorophenol
Concen: 42.958 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

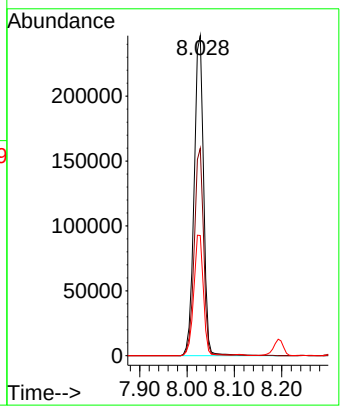
Tgt Ion:162 Resp: 34218

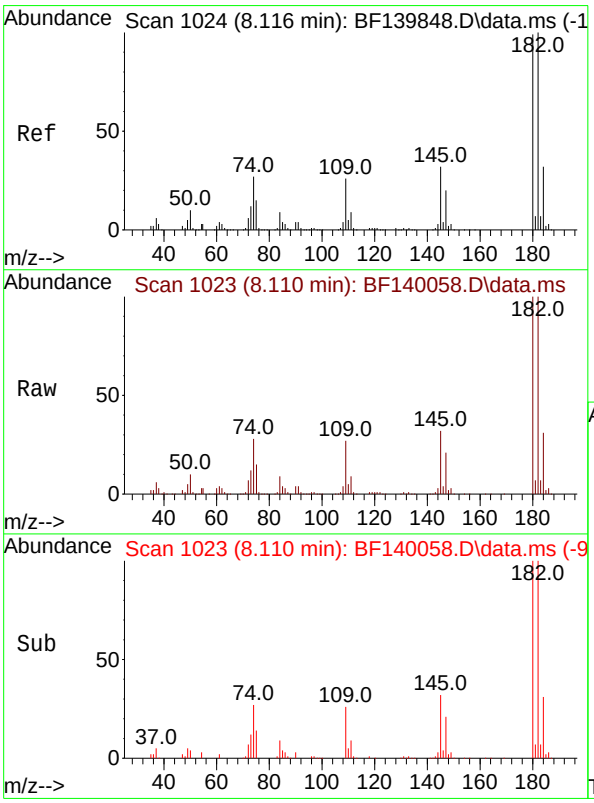
Ion	Ratio	Lower	Upper
162	100		
164	64.8	43.9	83.9
98	37.5	19.9	59.9

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

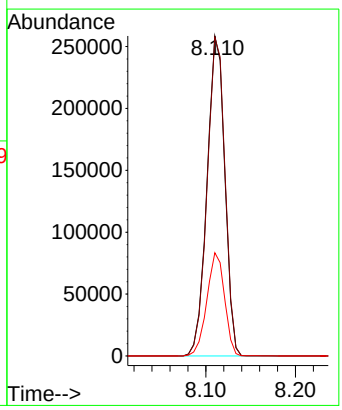


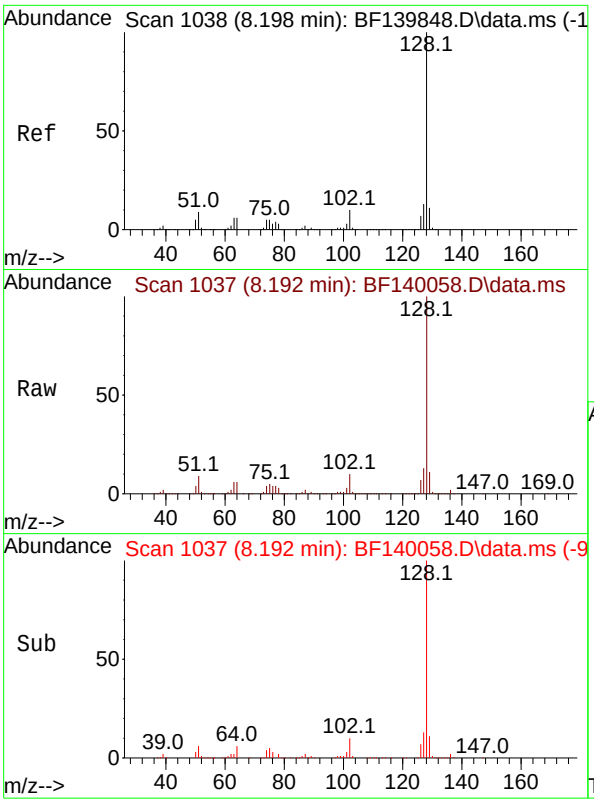


#30
1,2,4-Trichlorobenzene
Concen: 40.383 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:180 Resp: 355931

Ion	Ratio	Lower	Upper
180	100		
182	99.6	80.5	120.7
145	32.2	25.4	38.0





#31
Naphthalene
Concen: 41.180 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

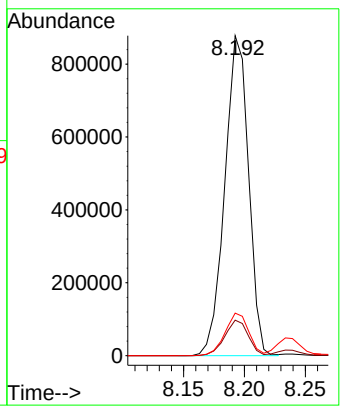
Tgt Ion:128 Resp: 119353

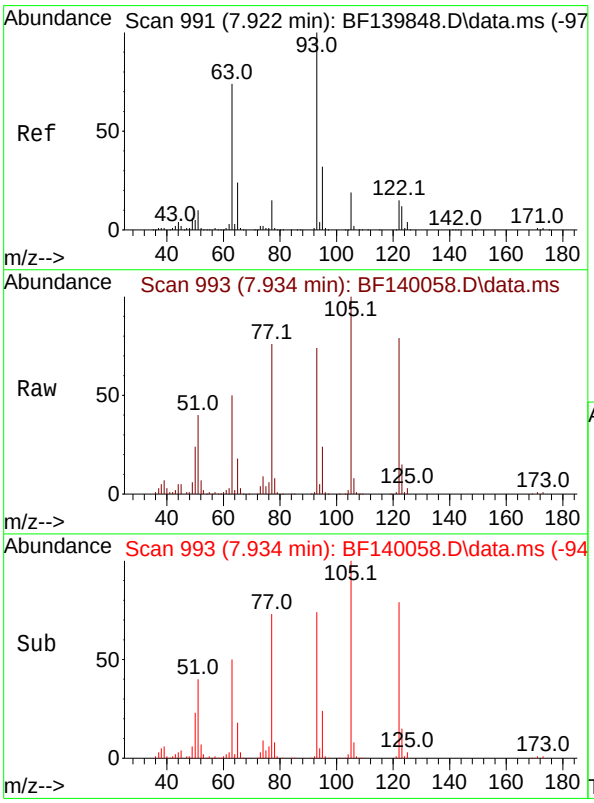
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.3	10.6	16.0

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

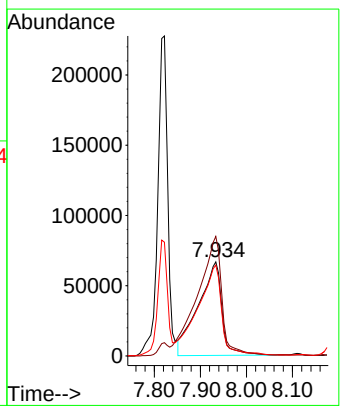


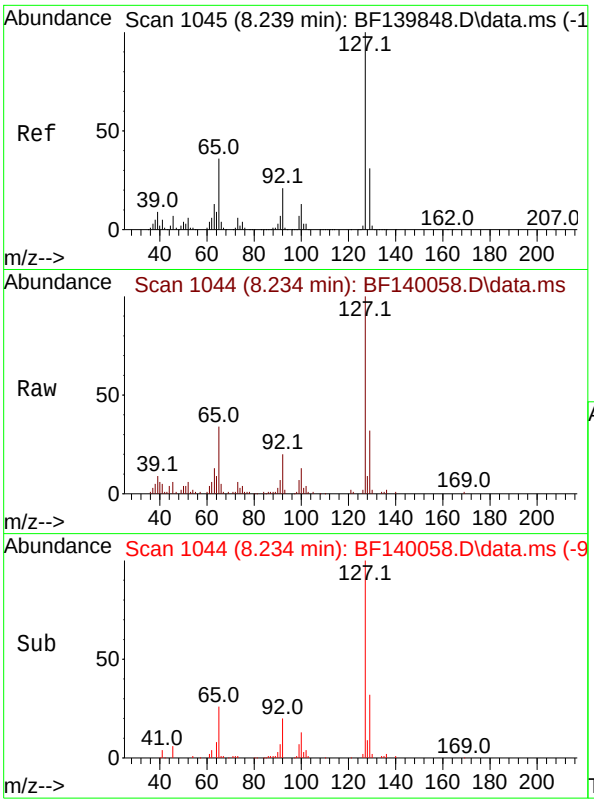


#32
Benzoic acid
Concen: 39.141 ng
RT: 7.934 min Scan# 993
Delta R.T. 0.012 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:122 Resp: 238740

Ion	Ratio	Lower	Upper
122	100		
105	127.0	107.6	147.6
77	96.7	80.2	120.2

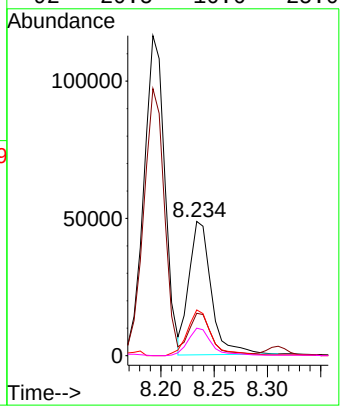




#33
4-Chloroaniline
Concen: 7.166 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:127 Resp: 7081

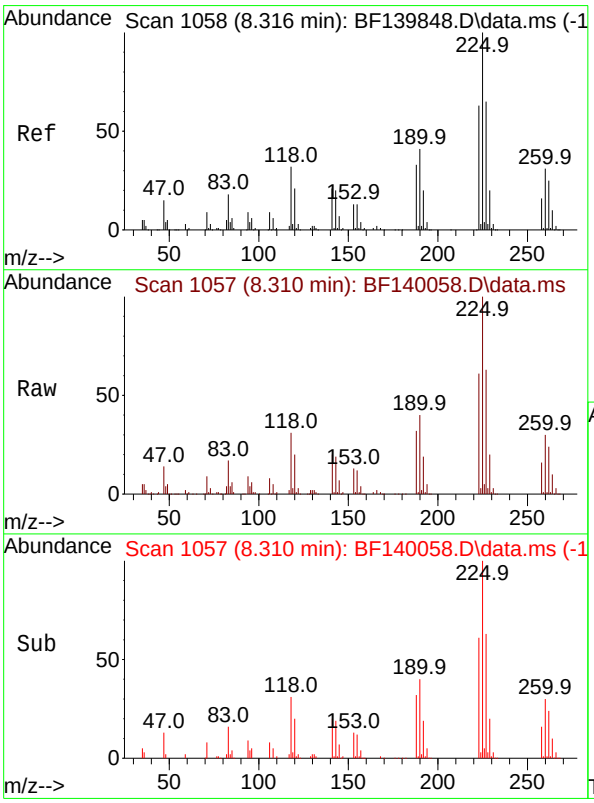
Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.4	38.2
65	34.1	28.4	42.6
92	20.5	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

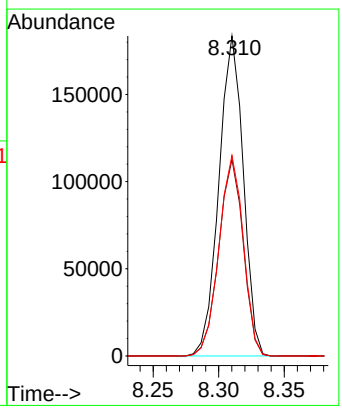
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

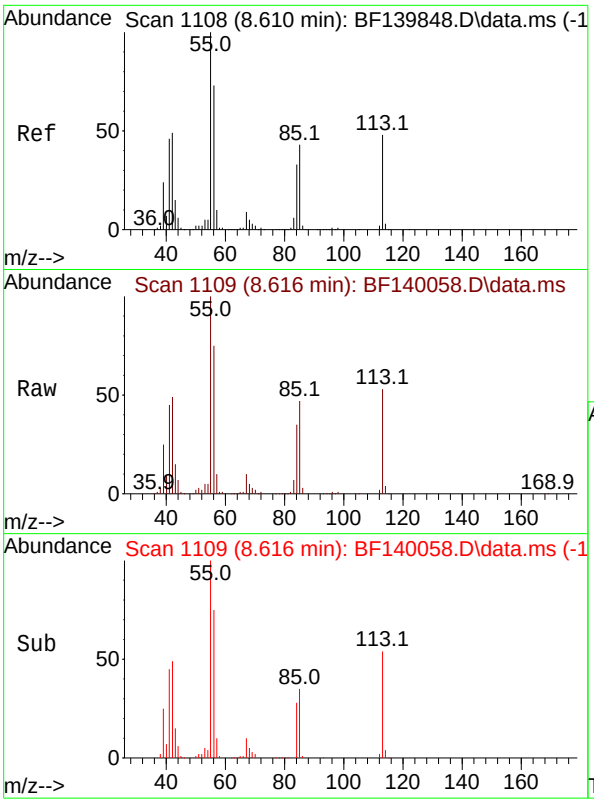


#34
Hexachlorobutadiene
Concen: 42.839 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:225 Resp: 237240

Ion	Ratio	Lower	Upper
225	100		
223	61.4	50.6	76.0
227	62.6	51.8	77.8





#35
Caprolactam
Concen: 43.459 ng m
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

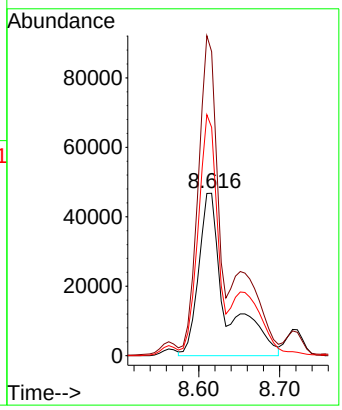
Tgt Ion:113 Resp: 11007(

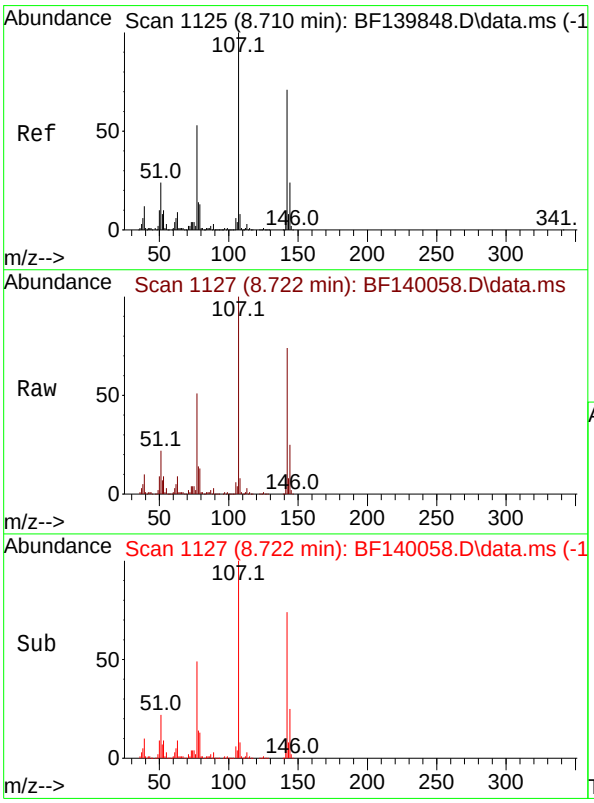
Ion	Ratio	Lower	Upper
113	100		
55	187.2	189.2	229.2#
56	140.6	132.5	172.5

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

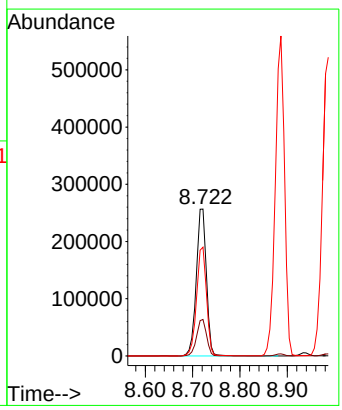


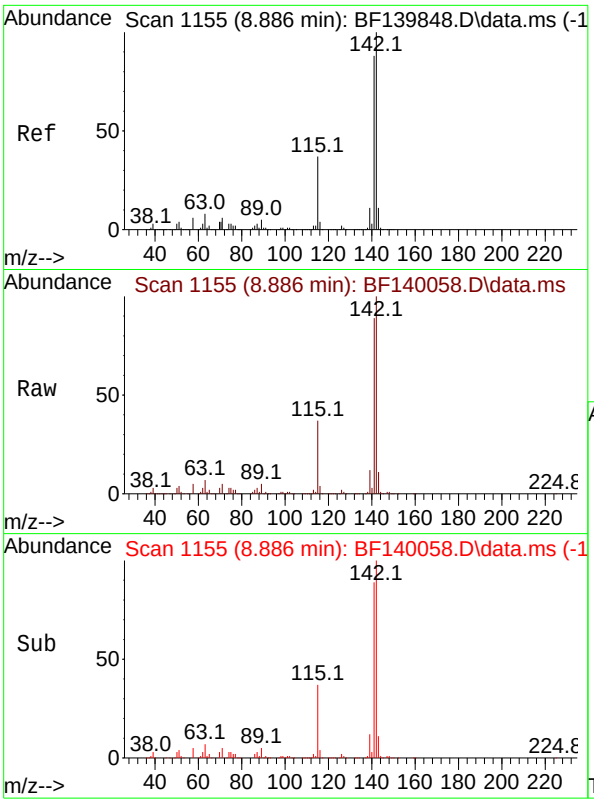


#36
4-Chloro-3-methylphenol
Concen: 43.402 ng
RT: 8.722 min Scan# 1127
Delta R.T. 0.012 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:107 Resp: 382812

Ion	Ratio	Lower	Upper
107	100		
144	24.9	19.1	28.7
142	74.2	57.2	85.8





#37
2-Methylnaphthalene
Concen: 42.539 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

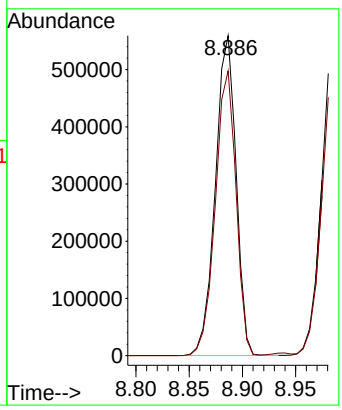
Tgt Ion:142 Resp: 75509

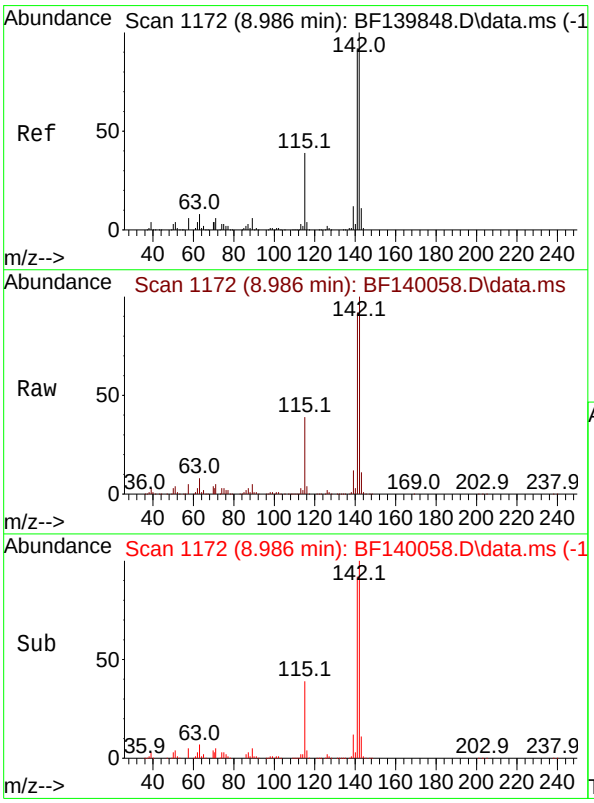
Ion	Ratio	Lower	Upper
142	100		
141	89.0	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

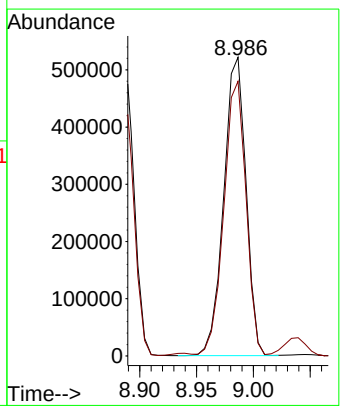


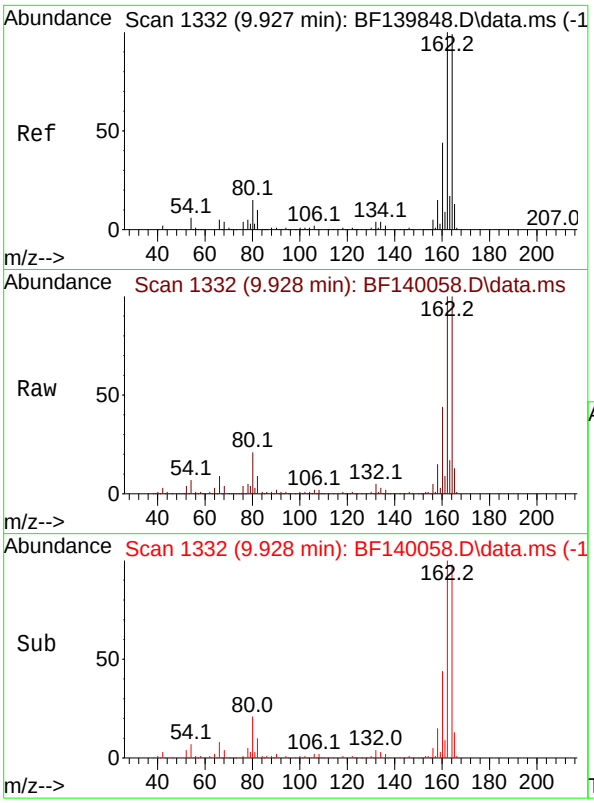


#38
1-Methylnaphthalene
Concen: 40.837 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:142 Resp: 711197

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.5	110.3





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

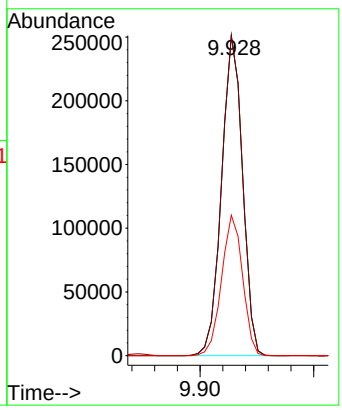
Tgt Ion:164 Resp: 32224

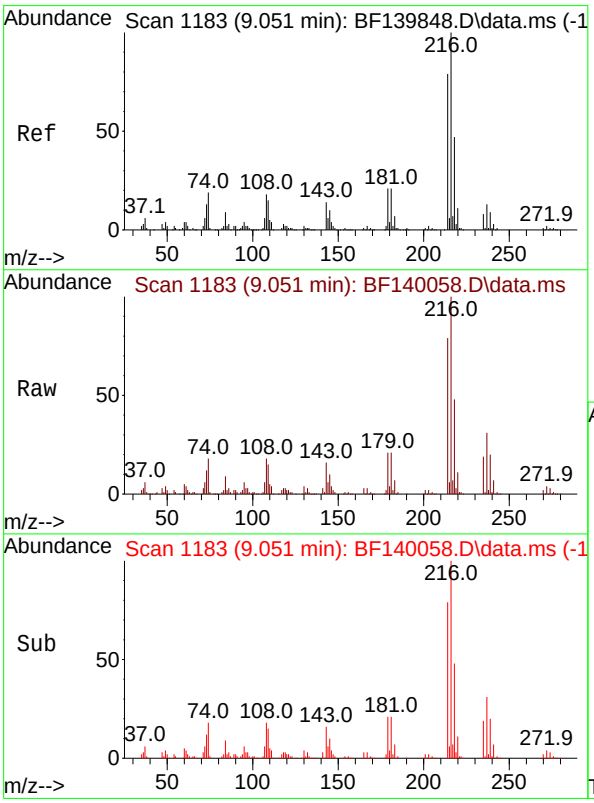
Ion	Ratio	Lower	Upper
164	100		
162	100.0	81.0	121.4
160	43.9	35.4	53.0

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

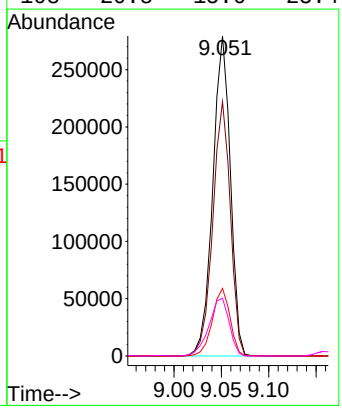


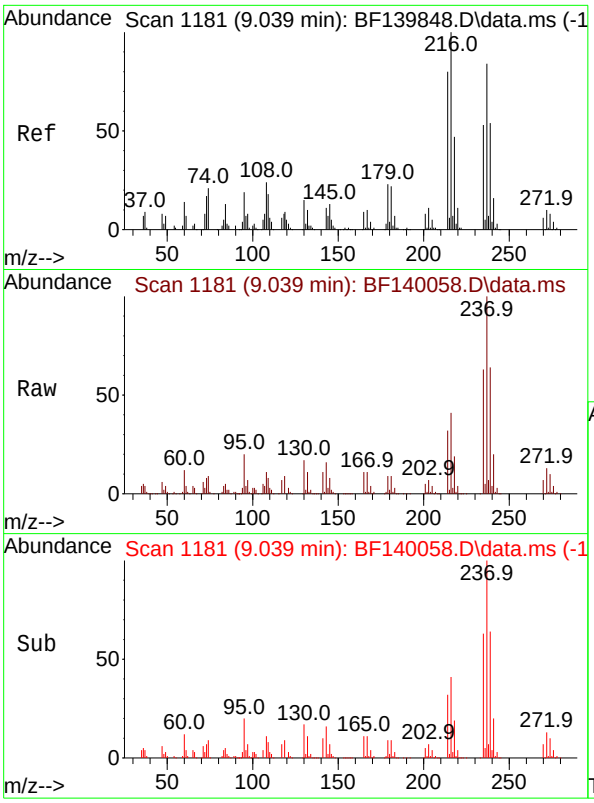


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.571 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:216 Resp: 361413

Ion	Ratio	Lower	Upper
216	100		
214	79.4	63.4	95.0
179	21.1	17.2	25.8
108	20.8	15.6	23.4





#41
Hexachlorocyclopentadiene
Concen: 132.972 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

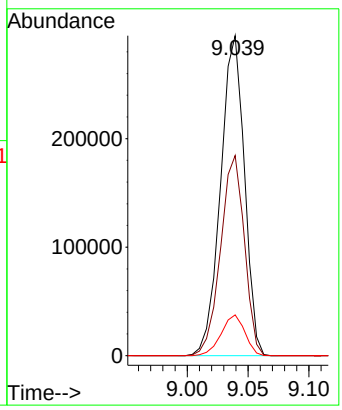
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

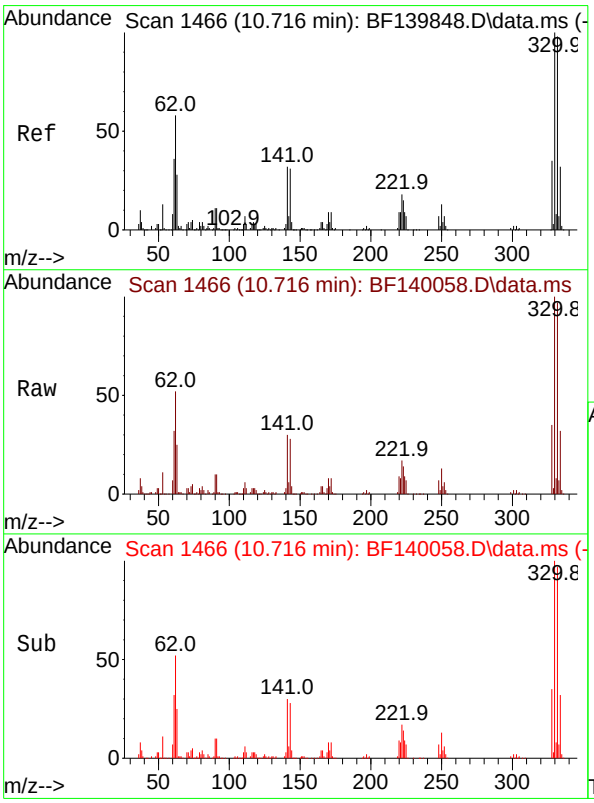
Tgt Ion:237 Resp: 40224

Ion	Ratio	Lower	Upper
237	100		
235	62.6	42.9	82.9
272	12.7	0.0	32.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

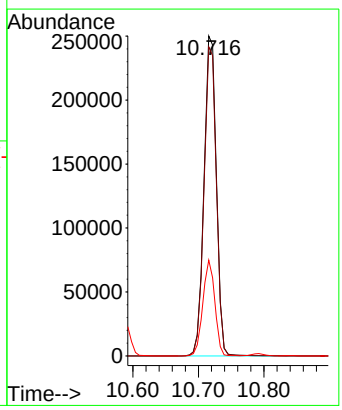


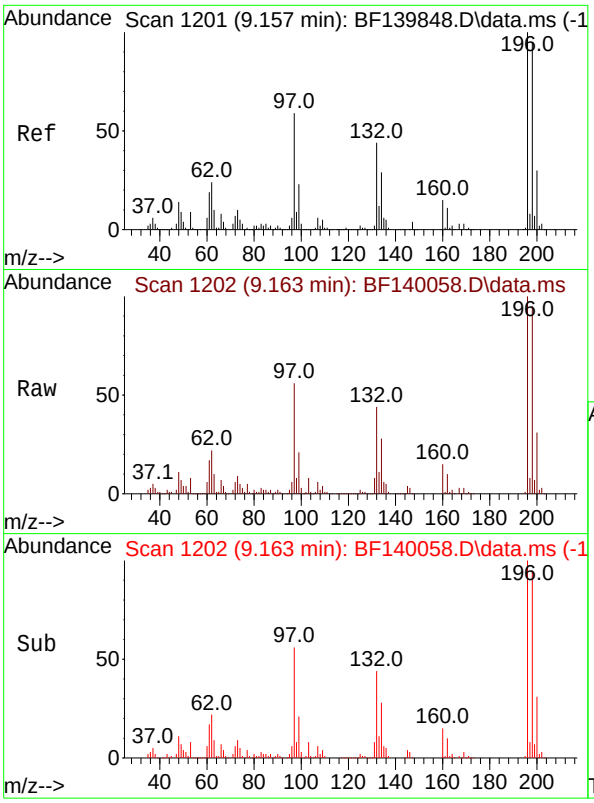


#42
2,4,6-Tribromophenol
Concen: 108.961 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:330 Resp: 328432

Ion	Ratio	Lower	Upper
330	100		
332	96.6	78.1	117.1
141	29.2	26.6	39.8





#43
2,4,6-Trichlorophenol
Concen: 43.444 ng
RT: 9.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

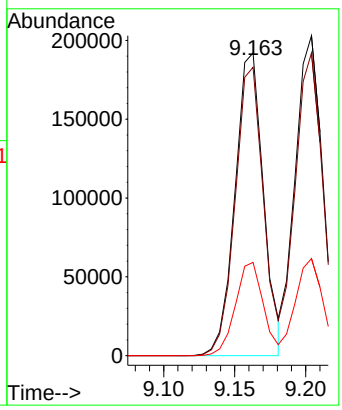
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

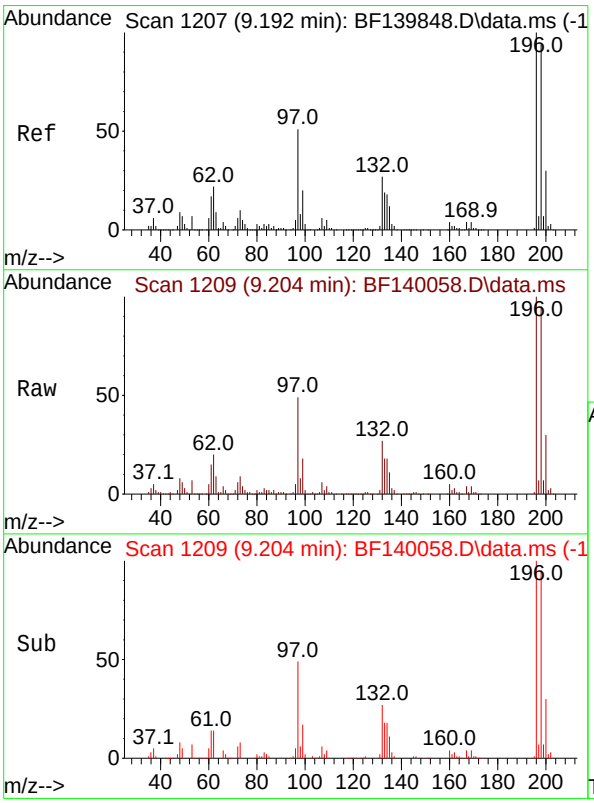
Tgt Ion:196 Resp: 26740

Ion	Ratio	Lower	Upper
196	100		
198	95.3	76.2	114.2
200	30.8	24.0	36.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

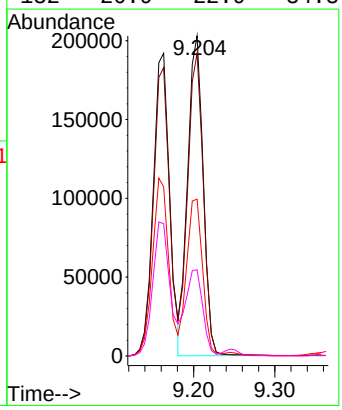


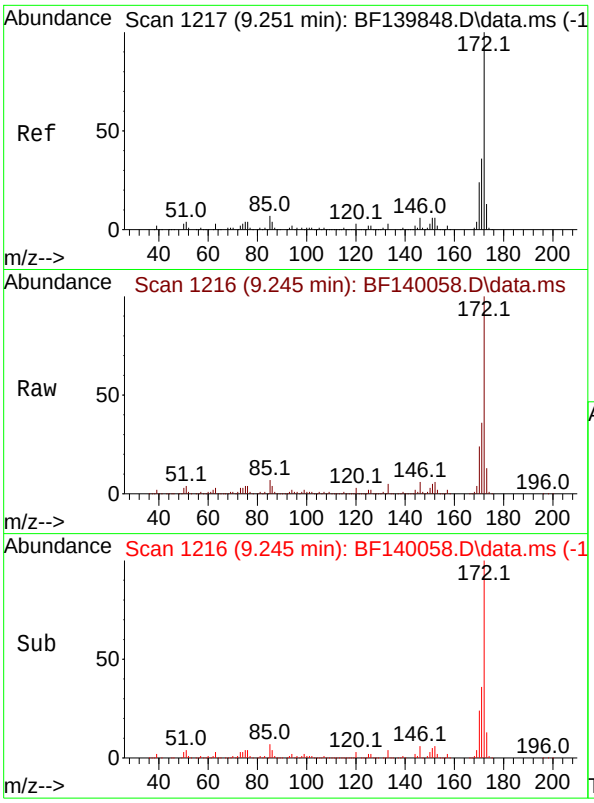


#44
2,4,5-Trichlorophenol
Concen: 42.729 ng
RT: 9.204 min Scan# 1209
Delta R.T. 0.012 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:196 Resp: 271347

Ion	Ratio	Lower	Upper
196	100		
198	94.6	75.8	113.6
97	49.0	41.8	62.6
132	26.9	22.9	34.3

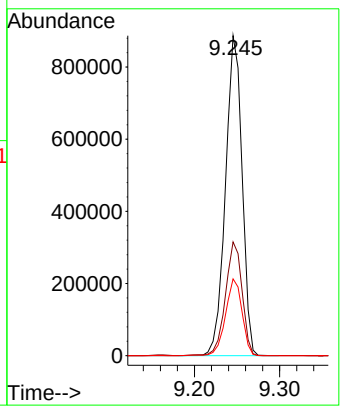




#45
2-Fluorobiphenyl
Concen: 61.554 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:172 Resp: 120020

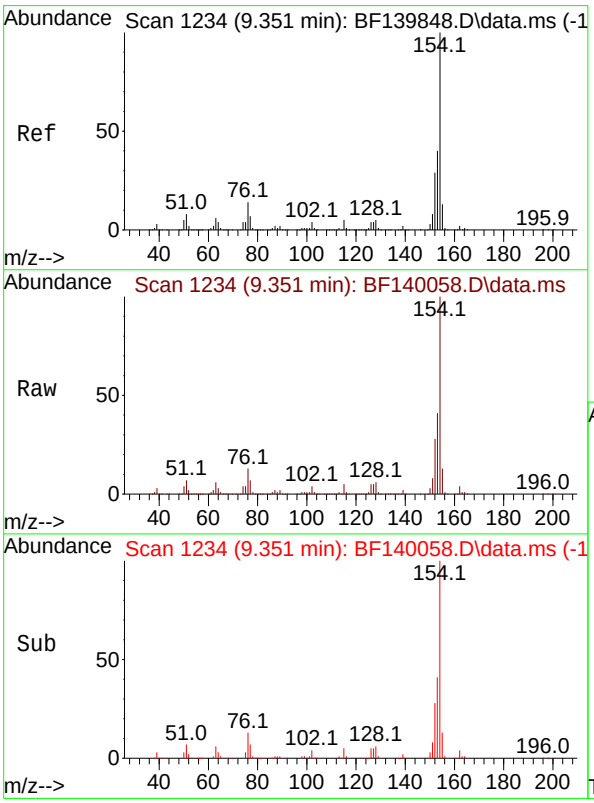
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	24.0	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

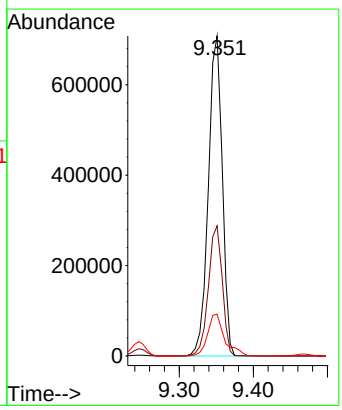
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

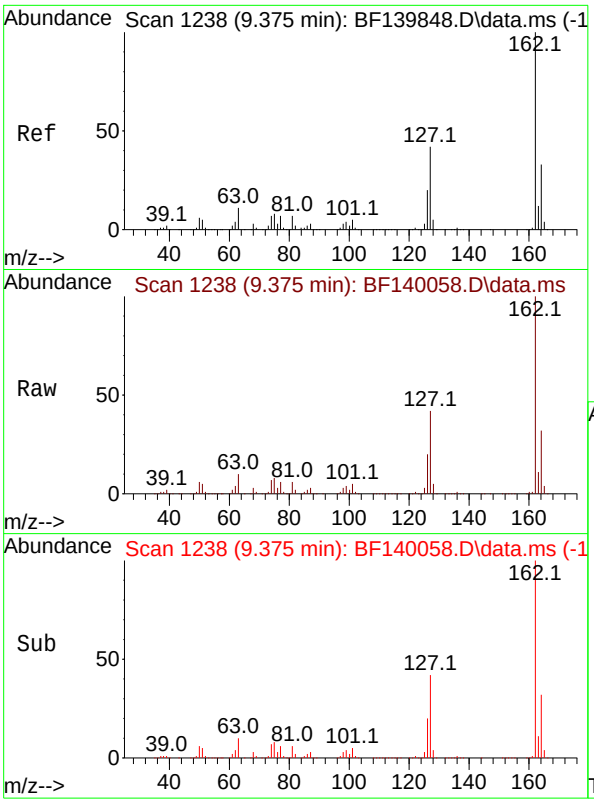


#46
1,1'-Biphenyl
Concen: 41.198 ng
RT: 9.351 min Scan# 1234
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:154 Resp: 924197

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.3	60.3
76	13.0	0.0	33.9





#47
2-Chloronaphthalene
Concen: 40.811 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

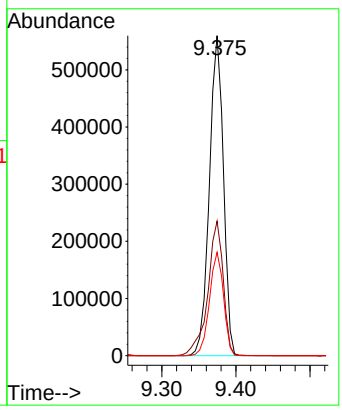
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

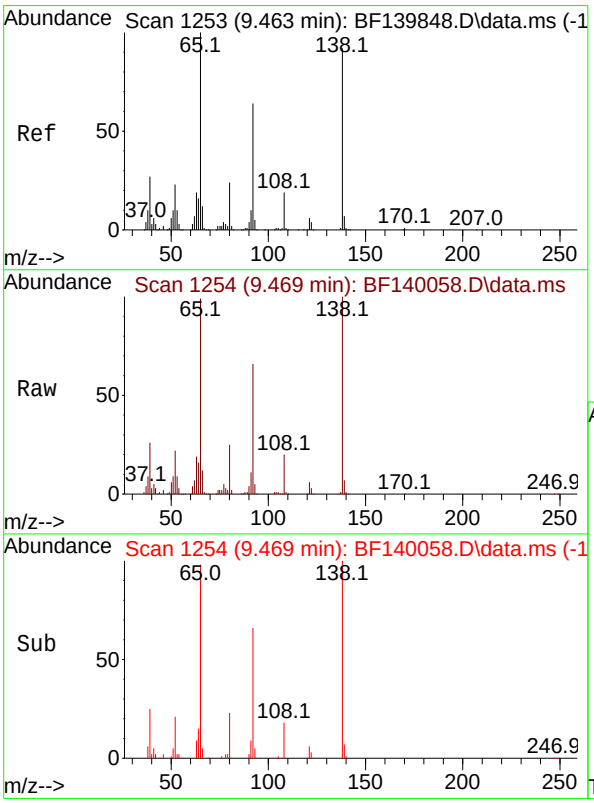
Tgt Ion:162 Resp: 73737

Ion	Ratio	Lower	Upper
162	100		
127	42.0	33.8	50.6
164	32.3	26.6	39.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

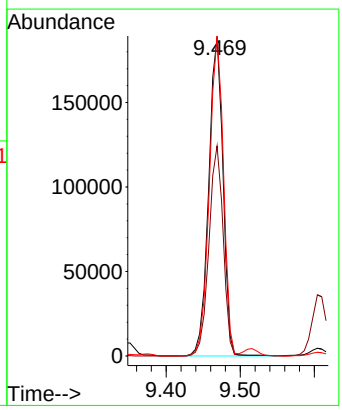


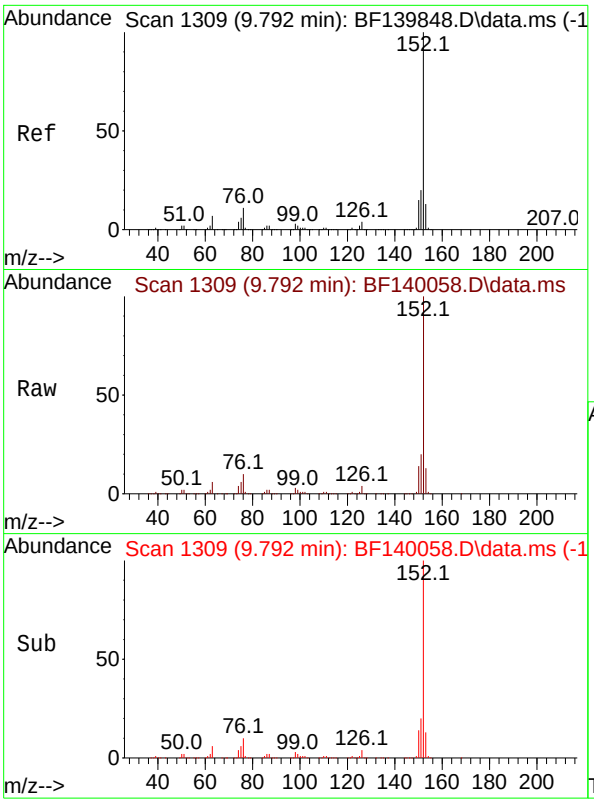


#48
2-Nitroaniline
Concen: 45.748 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion: 65 Resp: 252803

Ion	Ratio	Lower	Upper
65	100		
92	66.0	50.9	76.3
138	100.5	73.4	110.0





#49
Acenaphthylene
Concen: 44.248 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

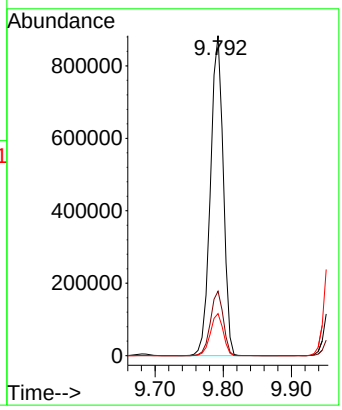
Tgt Ion:152 Resp: 115579

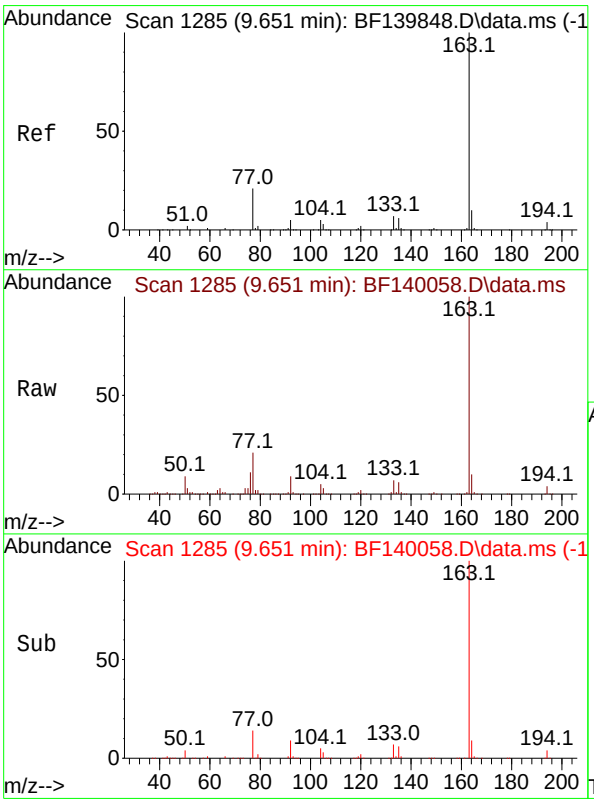
Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.9	23.9
153	13.1	10.7	16.1

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

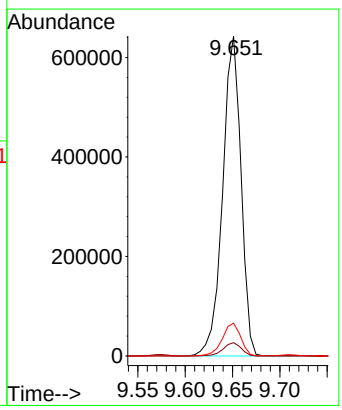


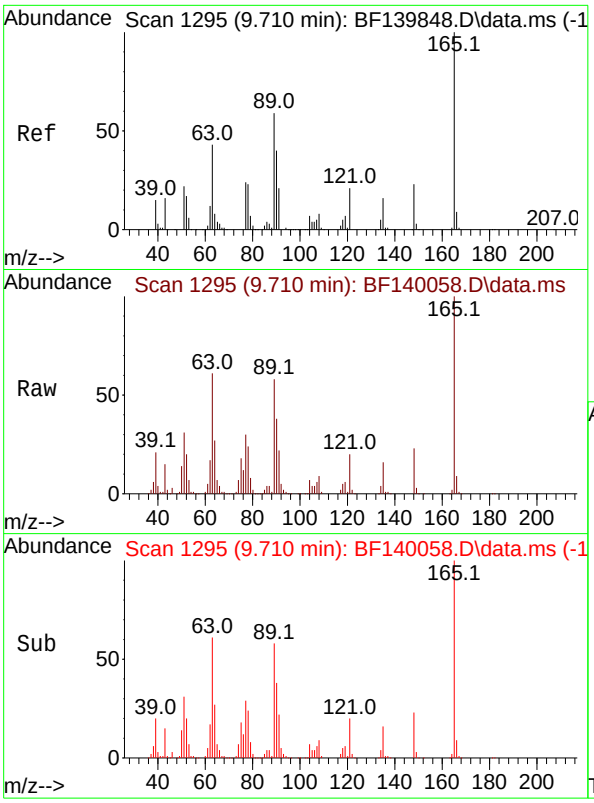


#50
Dimethylphthalate
Concen: 43.136 ng
RT: 9.651 min Scan# 1285
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:163 Resp: 865826

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.3	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 44.296 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

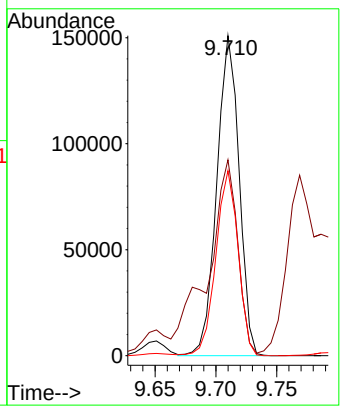
Tgt Ion:165 Resp: 19251

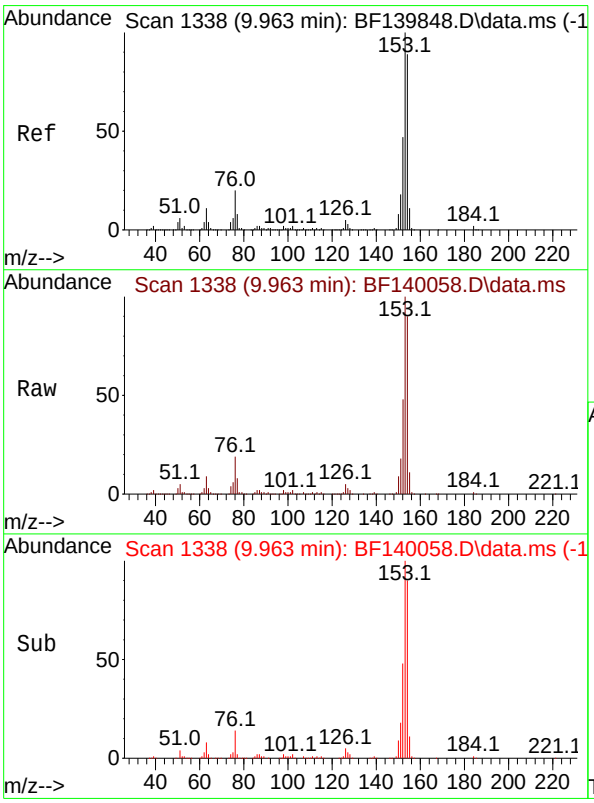
Ion	Ratio	Lower	Upper
165	100		
63	61.2	50.6	75.8
89	57.8	47.5	71.3

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

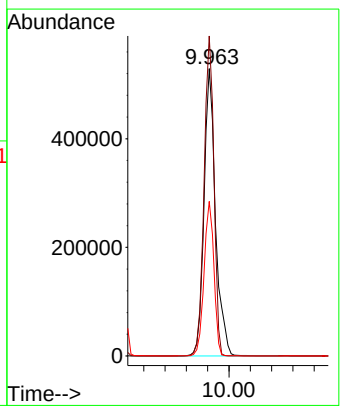


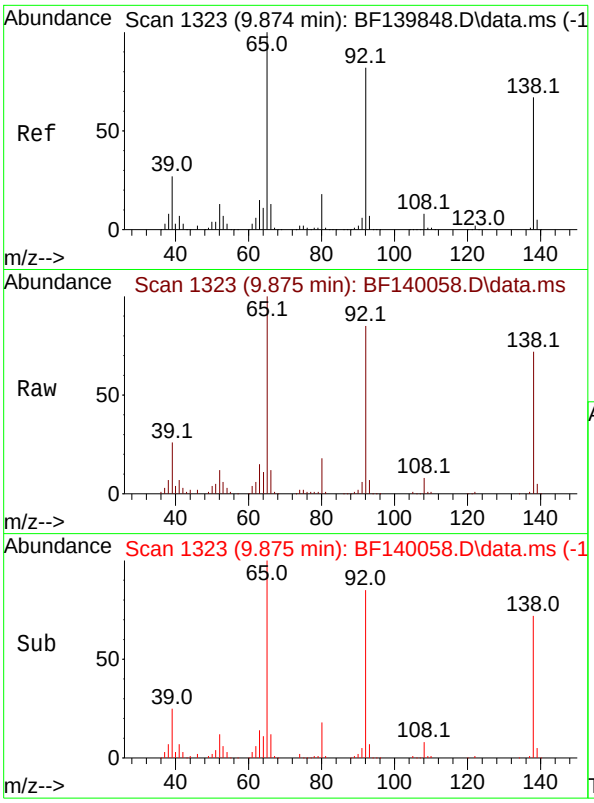


#52
Acenaphthene
Concen: 46.861 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:154 Resp: 791831

Ion	Ratio	Lower	Upper
154	100		
153	111.3	89.8	134.6
152	53.8	42.4	63.6





#53
3-Nitroaniline
Concen: 19.591 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

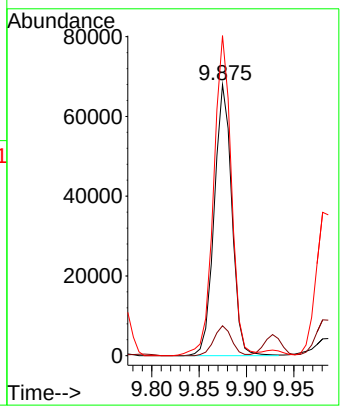
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

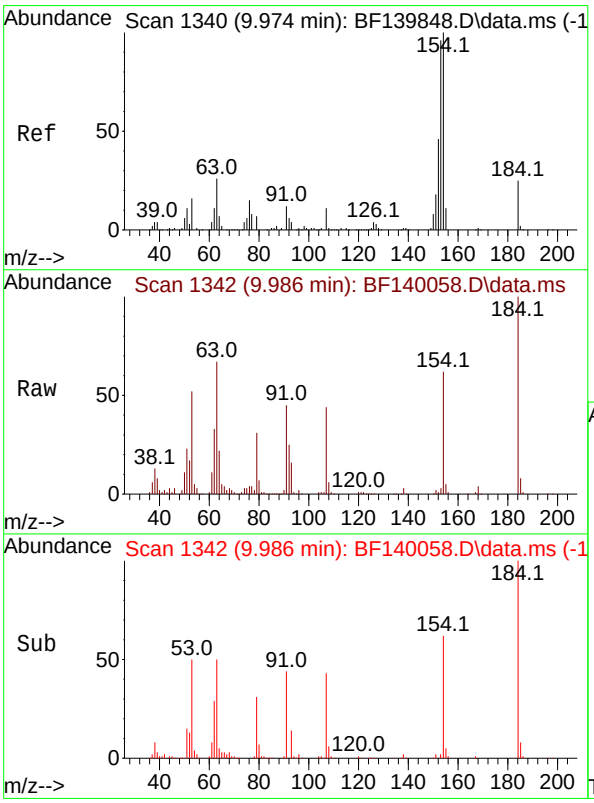
Tgt Ion:138 Resp: 8780

Ion	Ratio	Lower	Upper
138	100		
108	11.0	10.2	15.2
92	118.1	98.3	147.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

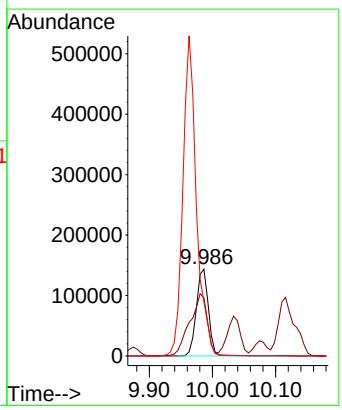


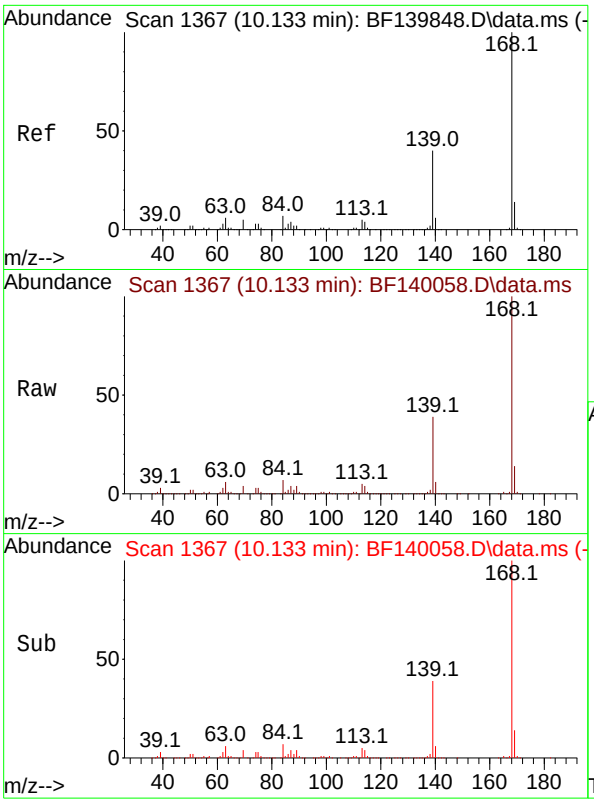


#54
2,4-Dinitrophenol
Concen: 103.509 ng
RT: 9.986 min Scan# 1342
Delta R.T. 0.012 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:184 Resp: 190676

Ion	Ratio	Lower	Upper
184	100		
63	67.2	84.7	127.1#
154	62.4	338.2	507.2#





#55
Dibenzofuran
Concen: 42.255 ng
RT: 10.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

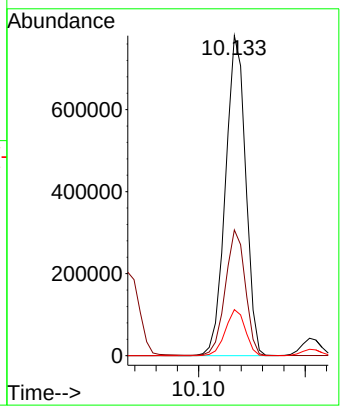
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

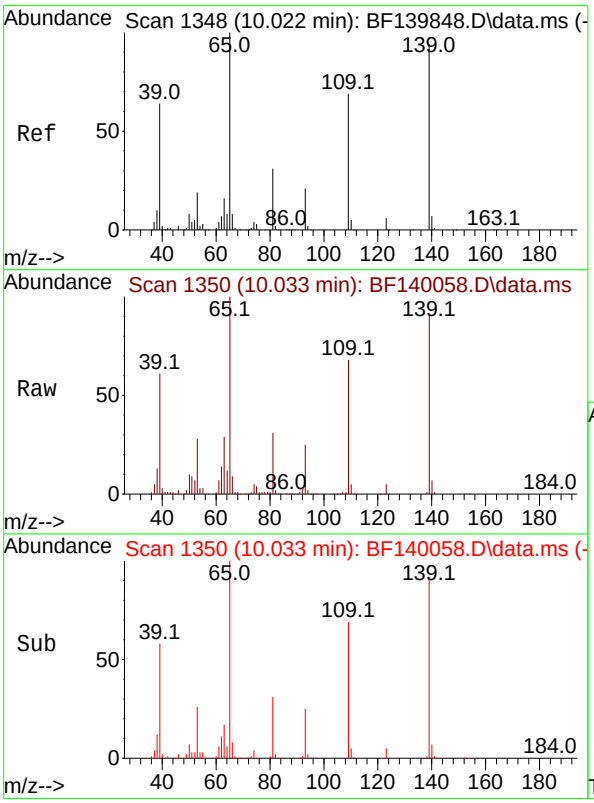
Tgt Ion:168 Resp: 102443

Ion	Ratio	Lower	Upper
168	100		
139	39.3	31.8	47.6
169	14.4	11.6	17.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

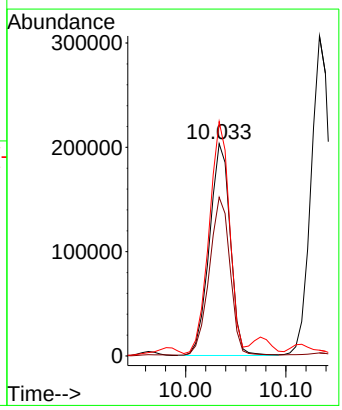


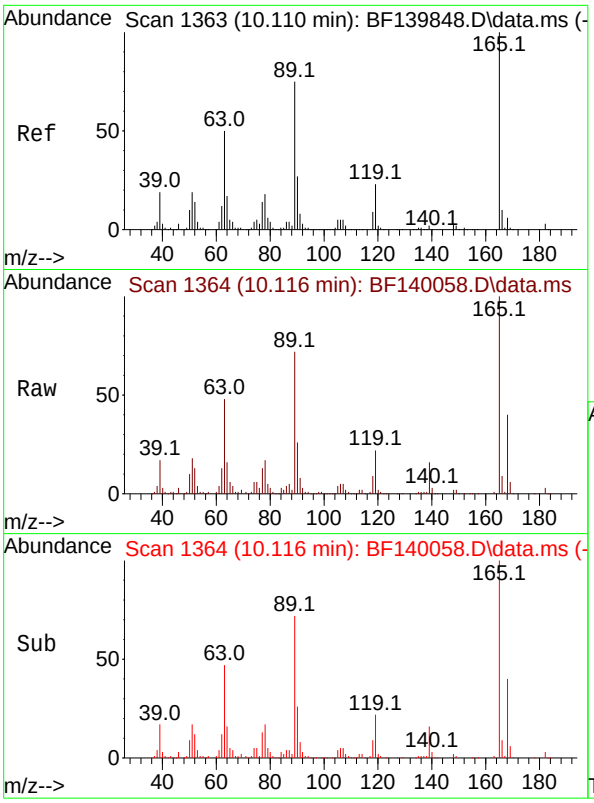


#56
4-Nitrophenol
Concen: 85.441 ng
RT: 10.033 min Scan# 1350
Delta R.T. 0.012 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:139 Resp: 294610

Ion	Ratio	Lower	Upper
139	100		
109	74.8	53.6	93.6
65	110.4	87.8	127.8

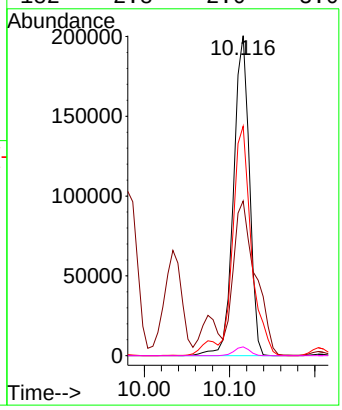




#57
2,4-Dinitrotoluene
Concen: 48.522 ng
RT: 10.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:165 Resp: 25932

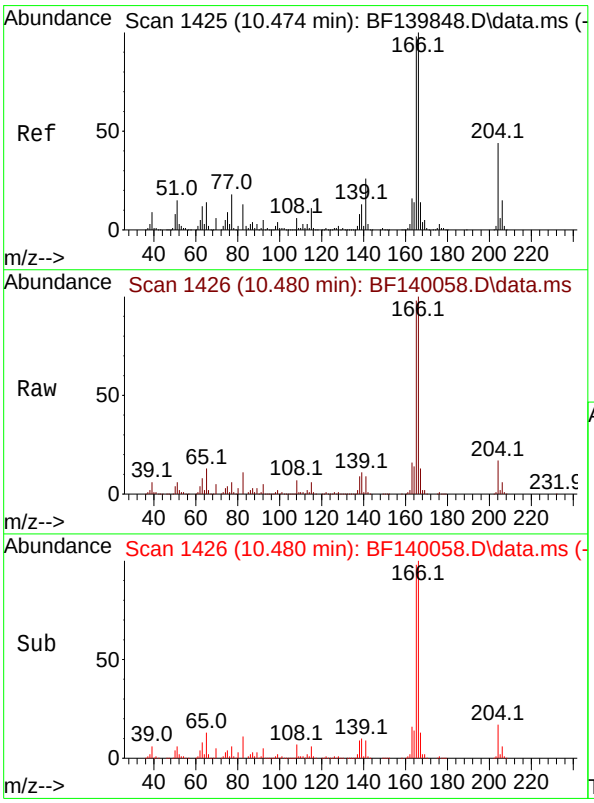
Ion	Ratio	Lower	Upper
165	100		
63	48.4	40.1	60.1
89	71.7	60.4	90.6
182	2.8	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

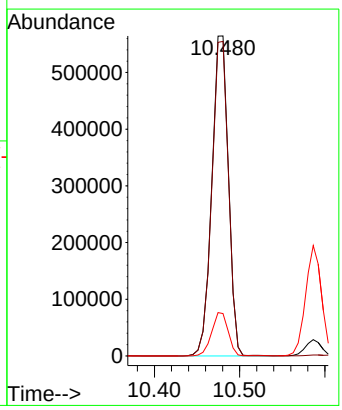
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

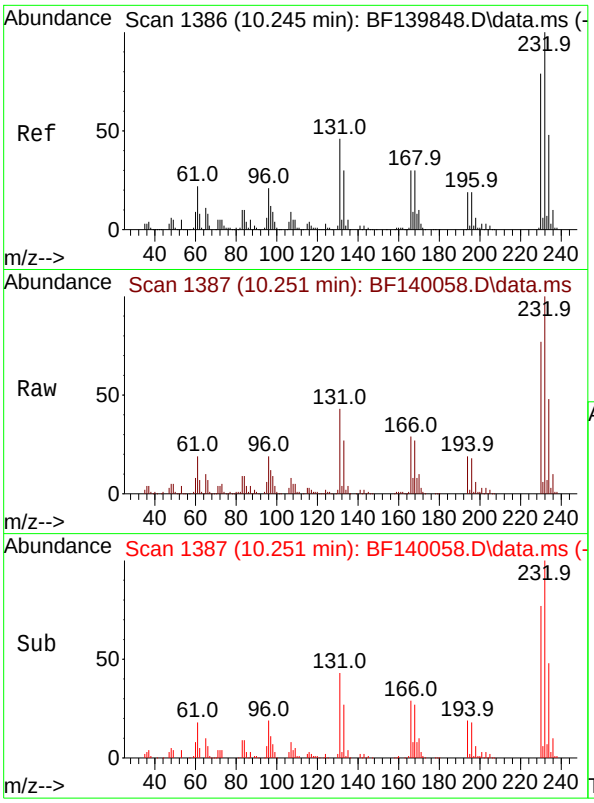


#58
Fluorene
Concen: 41.351 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:166 Resp: 763576

Ion	Ratio	Lower	Upper
166	100		
165	98.3	78.5	117.7
167	13.2	10.9	16.3

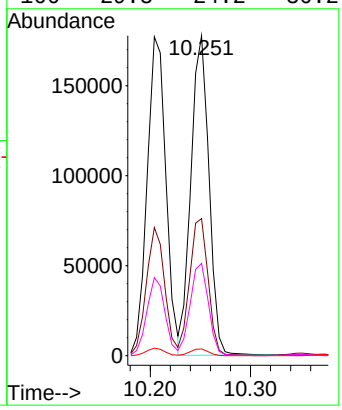




#59
2,3,4,6-Tetrachlorophenol
Concen: 44.654 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:232 Resp: 22230

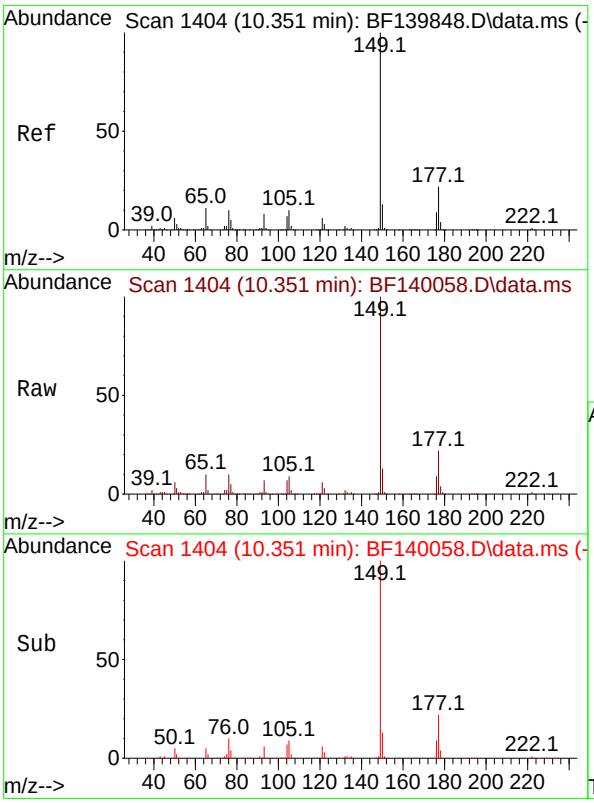
Ion	Ratio	Lower	Upper
232	100		
131	44.0	37.0	55.6
130	2.1	1.9	2.9
166	29.3	24.2	36.2



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

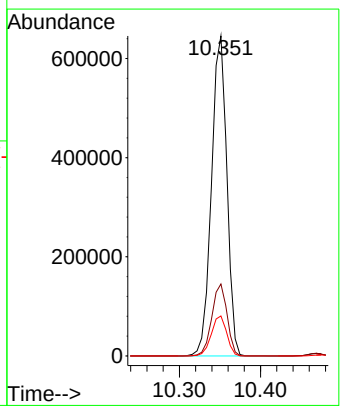
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

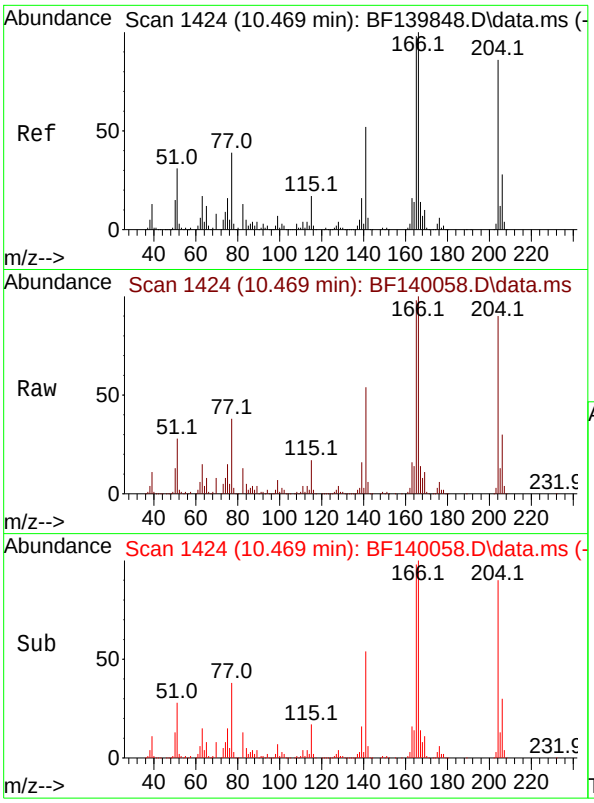


#60
Diethylphthalate
Concen: 43.073 ng
RT: 10.351 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:149 Resp: 848877

Ion	Ratio	Lower	Upper
149	100		
177	22.5	17.9	26.9
150	12.5	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 42.266 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

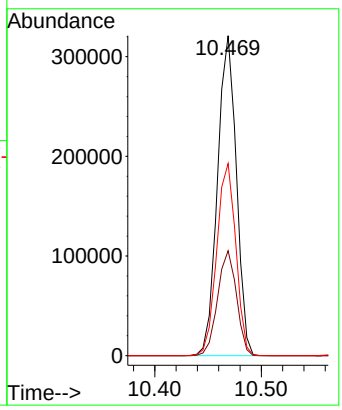
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

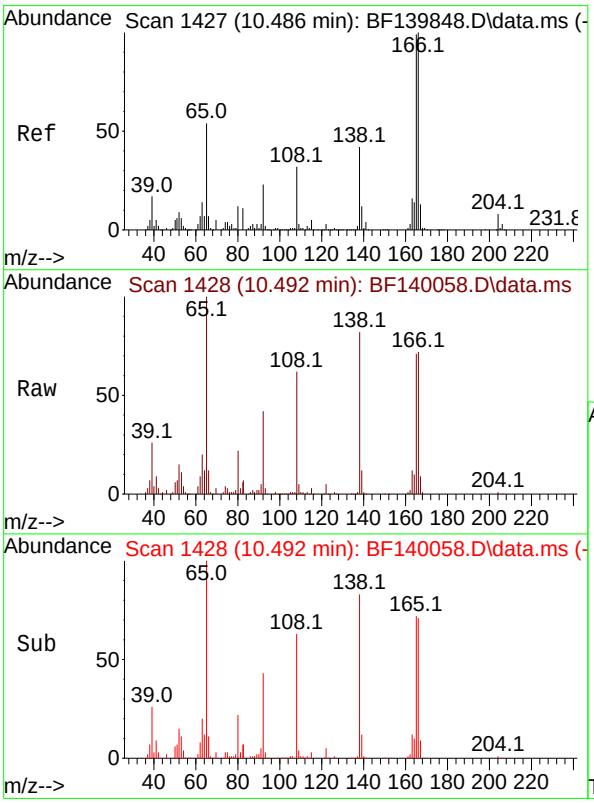
Tgt Ion:204 Resp: 39413

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.3	39.5
141	60.1	48.6	73.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

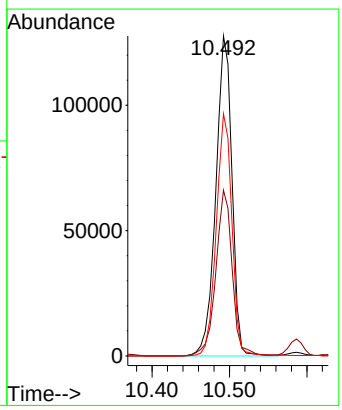


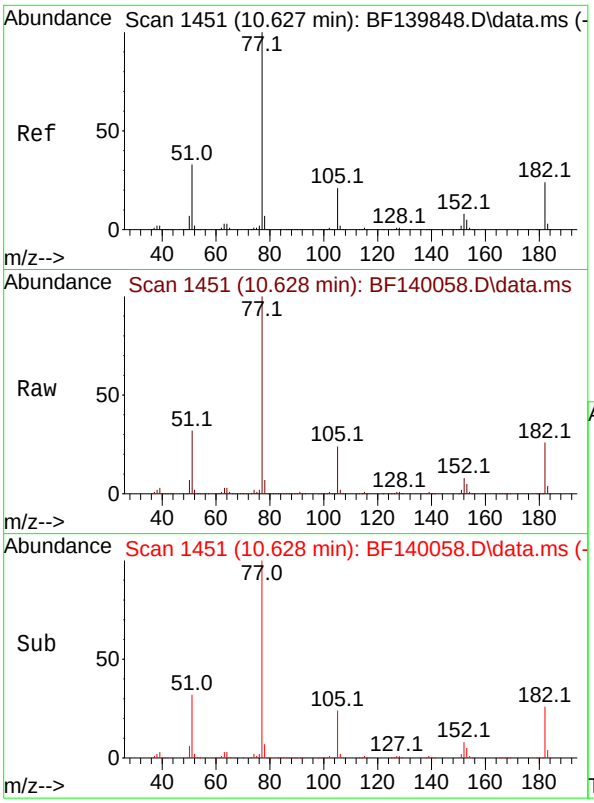


#62
4-Nitroaniline
Concen: 43.866 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:138 Resp: 185680

Ion	Ratio	Lower	Upper
138	100		
92	51.8	35.7	75.7
108	75.7	57.5	97.5

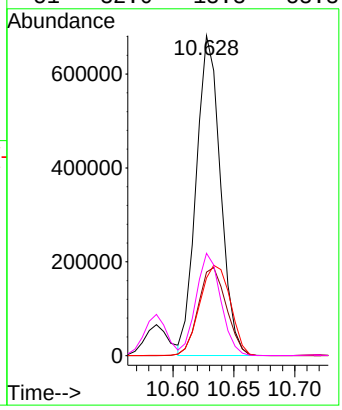




#63
Azobenzene
Concen: 45.157 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion: 77 Resp: 94350

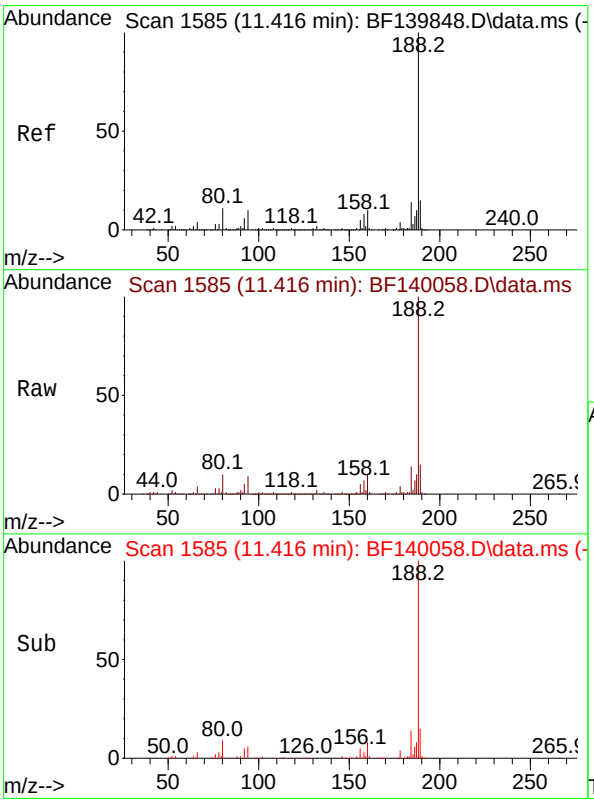
Ion	Ratio	Lower	Upper
77	100		
182	26.1	3.3	43.3
105	24.3	1.2	41.2
51	32.0	13.3	53.3



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

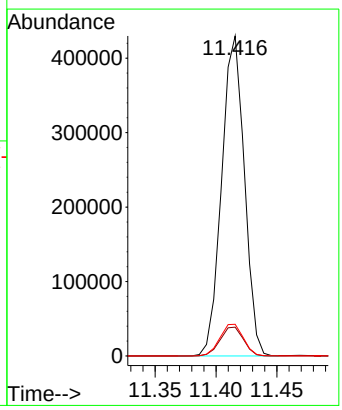
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

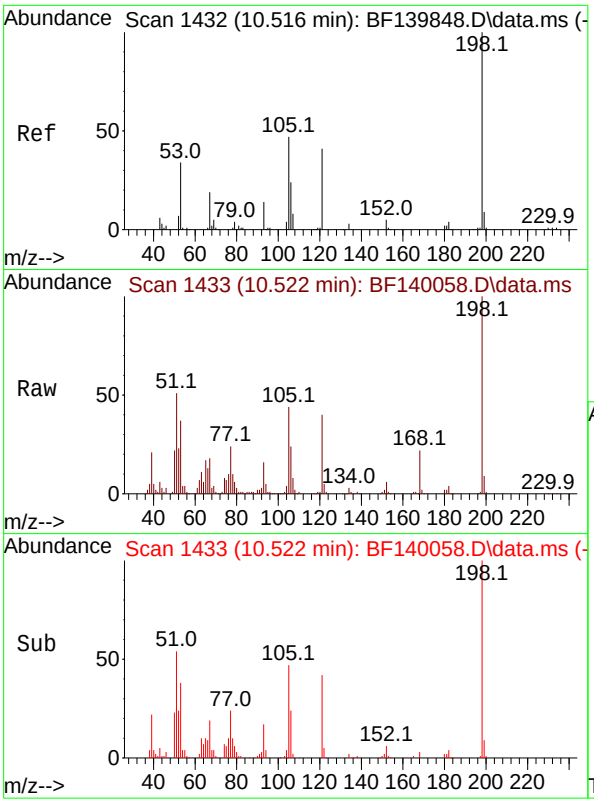


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:188 Resp: 559748

Ion	Ratio	Lower	Upper
188	100		
94	9.0	7.9	11.9
80	9.9	9.0	13.4





#65
4,6-Dinitro-2-methylphenol
Concen: 58.529 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

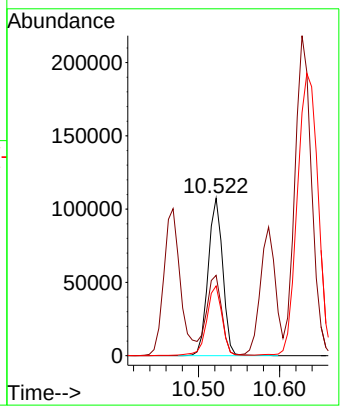
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

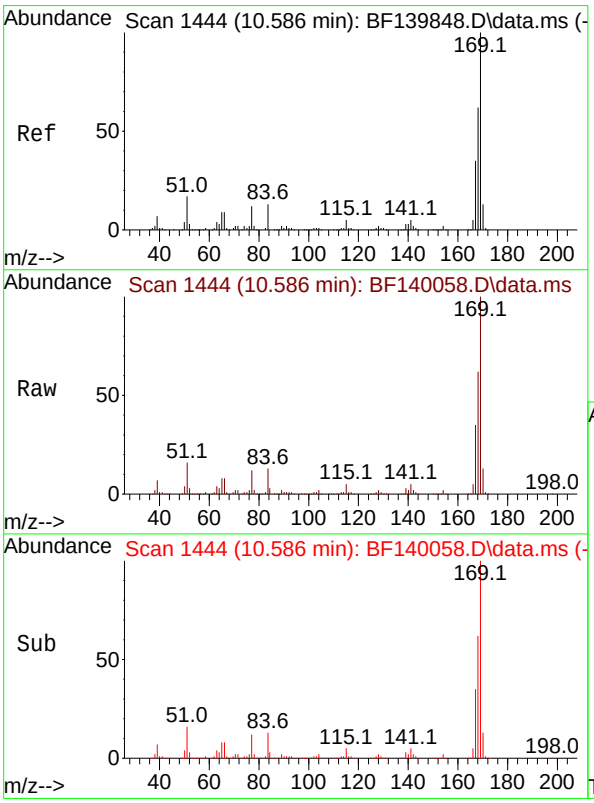
Tgt Ion:198 Resp: 13363

Ion	Ratio	Lower	Upper
198	100		
51	51.1	38.2	78.2
105	44.3	27.9	67.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

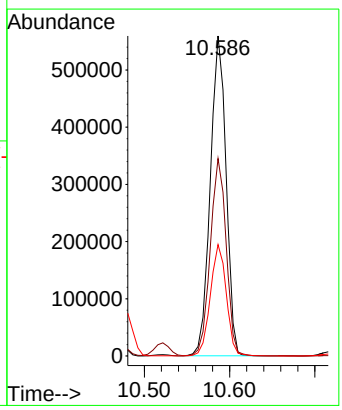


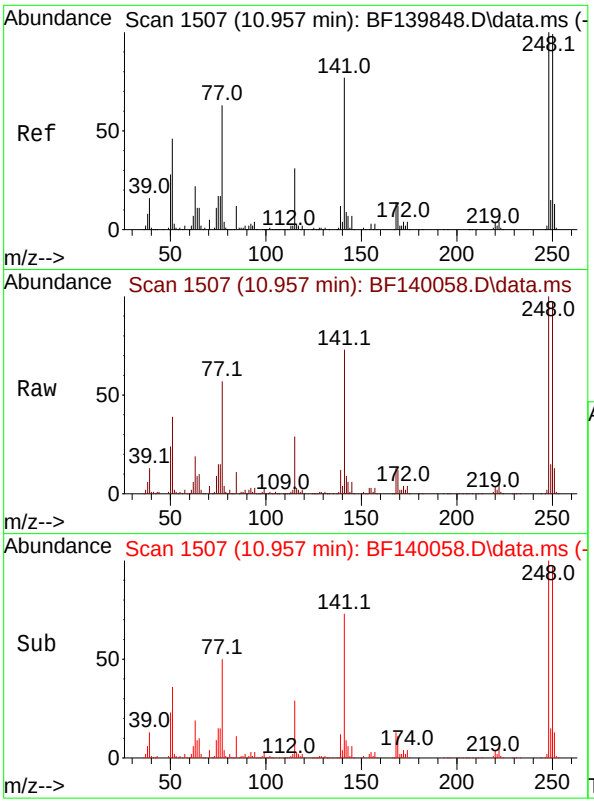


#66
n-Nitrosodiphenylamine
Concen: 42.931 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:169 Resp: 719231

Ion	Ratio	Lower	Upper
169	100		
168	61.7	49.8	74.6
167	34.8	28.0	42.0





#67
4-Bromophenyl-phenylether
Concen: 44.297 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

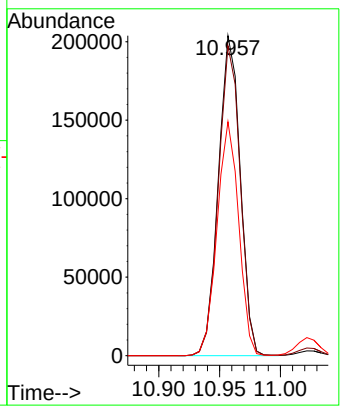
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

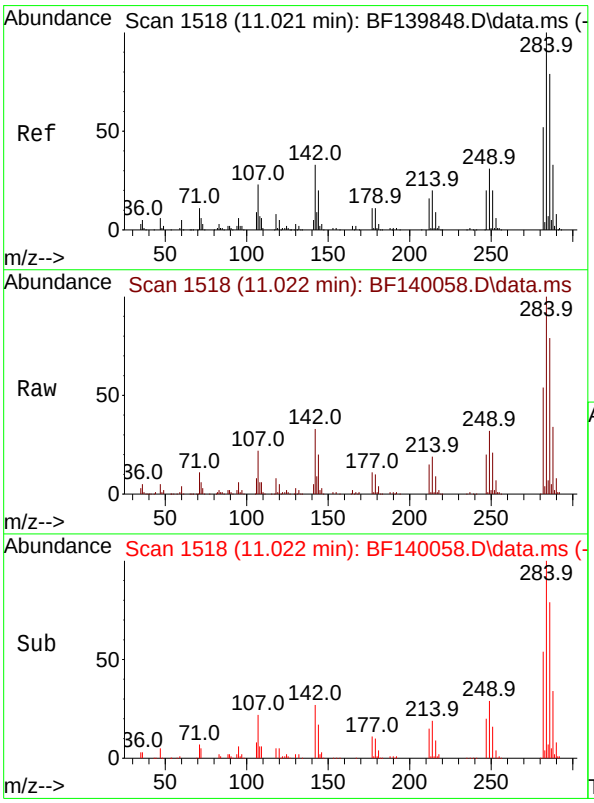
Tgt Ion:248 Resp: 25543

Ion	Ratio	Lower	Upper
248	100		
250	96.8	79.0	118.6
141	73.1	61.7	92.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

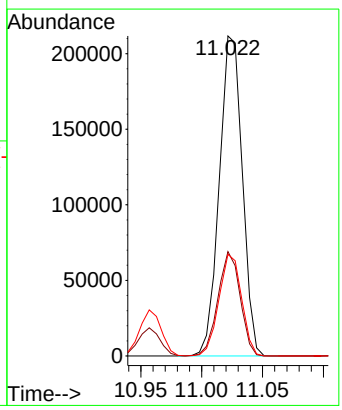


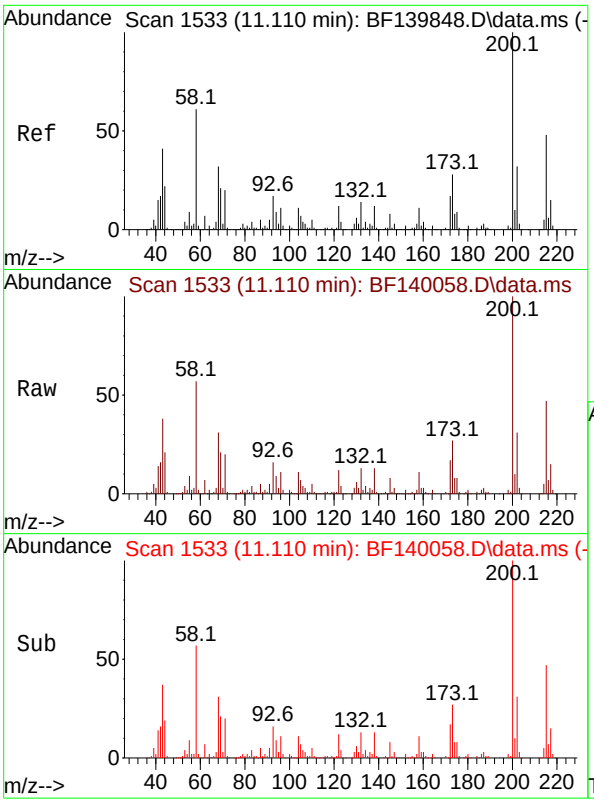


#68
Hexachlorobenzene
Concen: 42.971 ng
RT: 11.022 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:284 Resp: 278683

Ion	Ratio	Lower	Upper
284	100		
142	32.6	26.9	40.3
249	31.8	25.3	37.9





#69
Atrazine
Concen: 51.736 ng
RT: 11.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

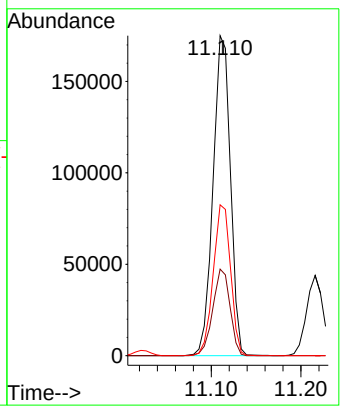
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

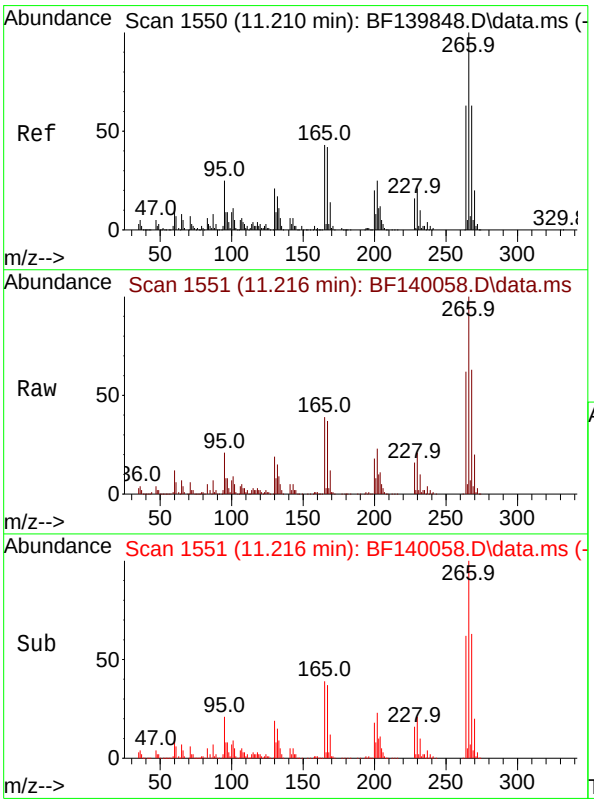
Tgt Ion:200 Resp: 23478

Ion	Ratio	Lower	Upper
200	100		
173	27.0	7.7	47.7
215	47.2	27.7	67.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

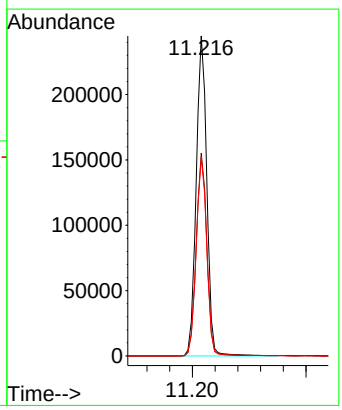


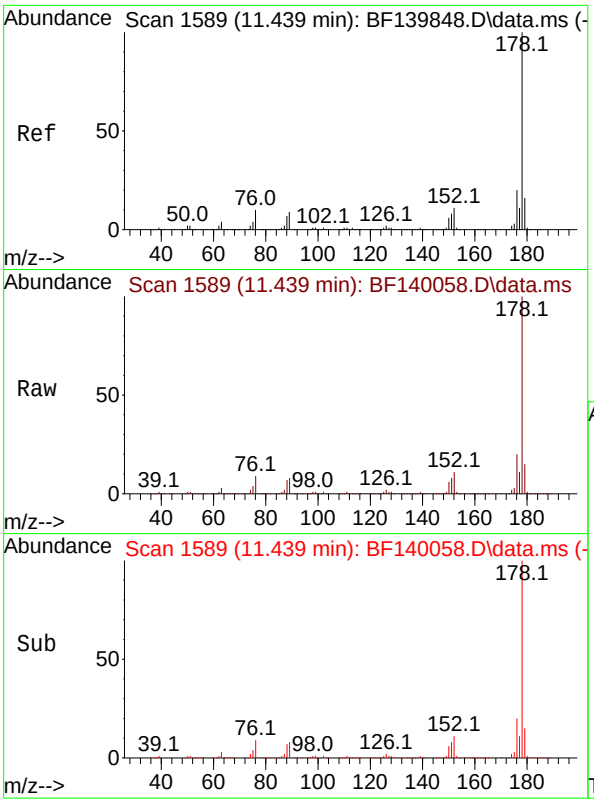


#70
Pentachlorophenol
Concen: 81.104 ng
RT: 11.216 min Scan# 1551
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:266 Resp: 319223

Ion	Ratio	Lower	Upper
266	100		
268	63.3	50.4	75.6
264	62.1	50.6	75.8





#71
Phenanthrene
Concen: 41.903 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

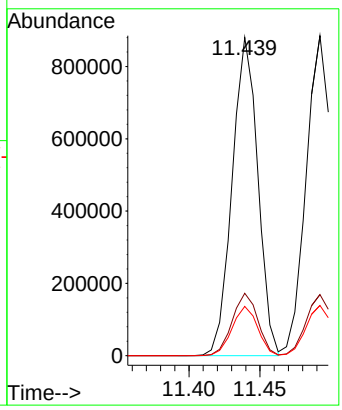
Tgt Ion:178 Resp: 110793

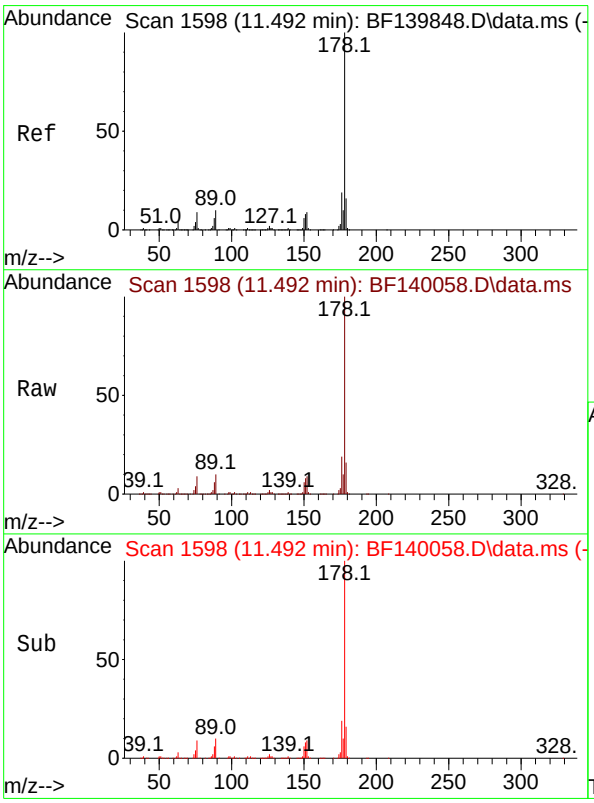
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.6
179	15.5	12.6	18.8

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

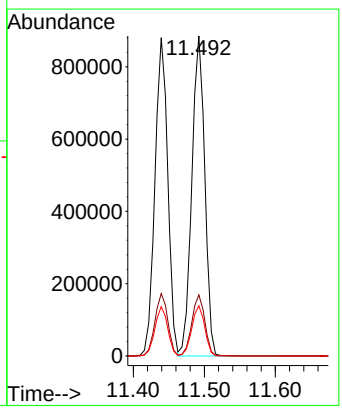


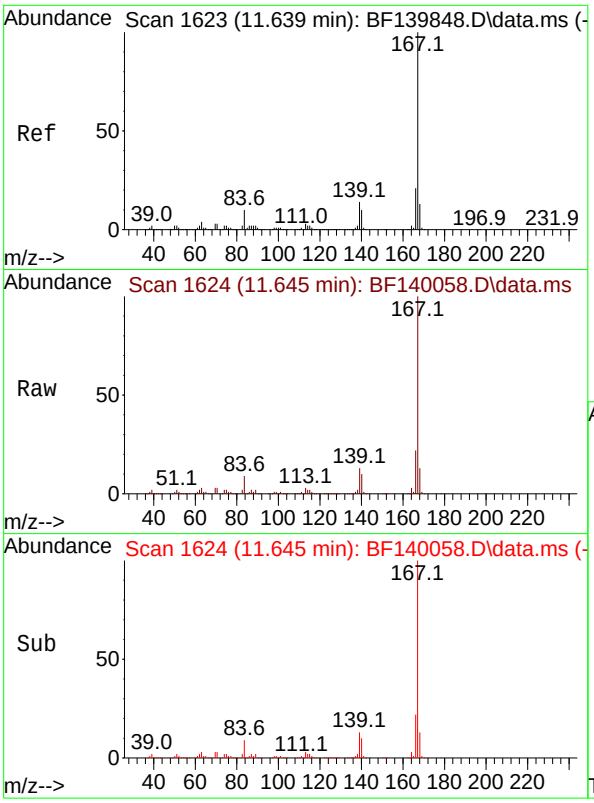


#72
Anthracene
Concen: 43.530 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:178 Resp: 1122946

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.7	12.4	18.6





#73
Carbazole
Concen: 39.568 ng
RT: 11.645 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

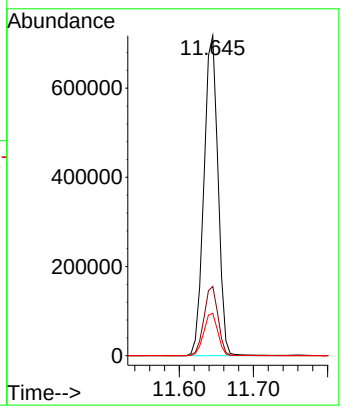
Tgt Ion:167 Resp: 94931

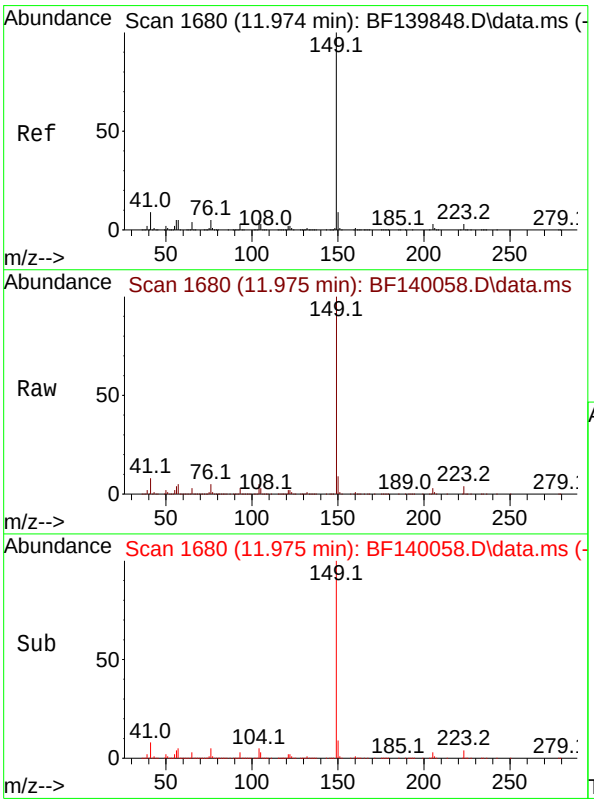
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.0	25.6
139	13.2	10.8	16.2

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

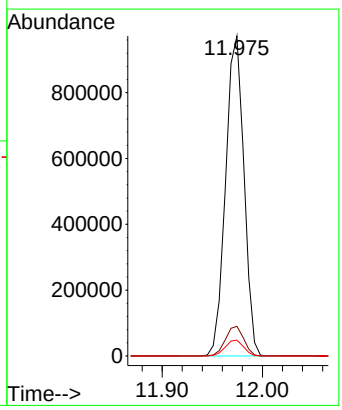


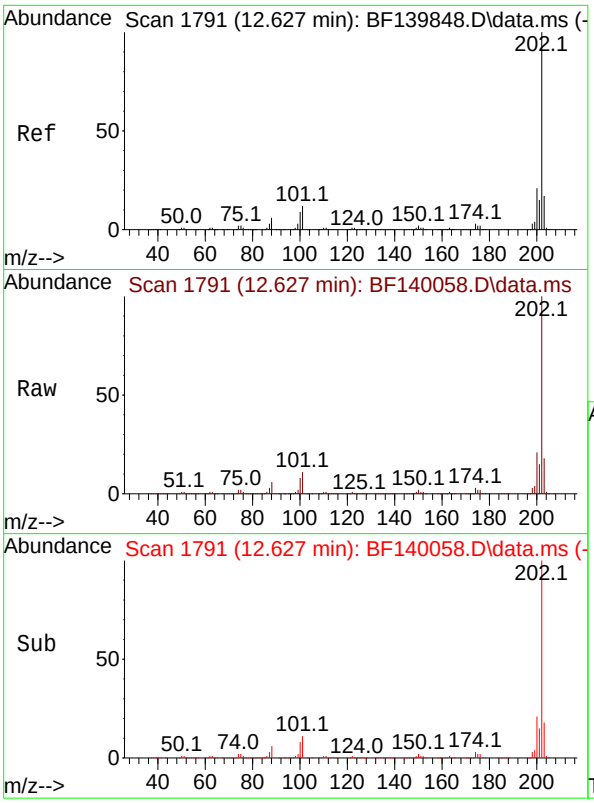


#74
Di-n-butylphthalate
Concen: 44.411 ng
RT: 11.975 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:149 Resp: 1231008

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.5	11.3
104	4.9	4.1	6.1

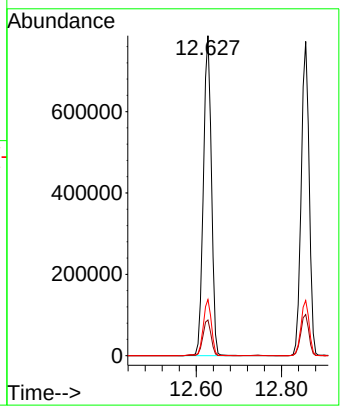




#75
Fluoranthene
Concen: 38.381 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:202 Resp: 102587

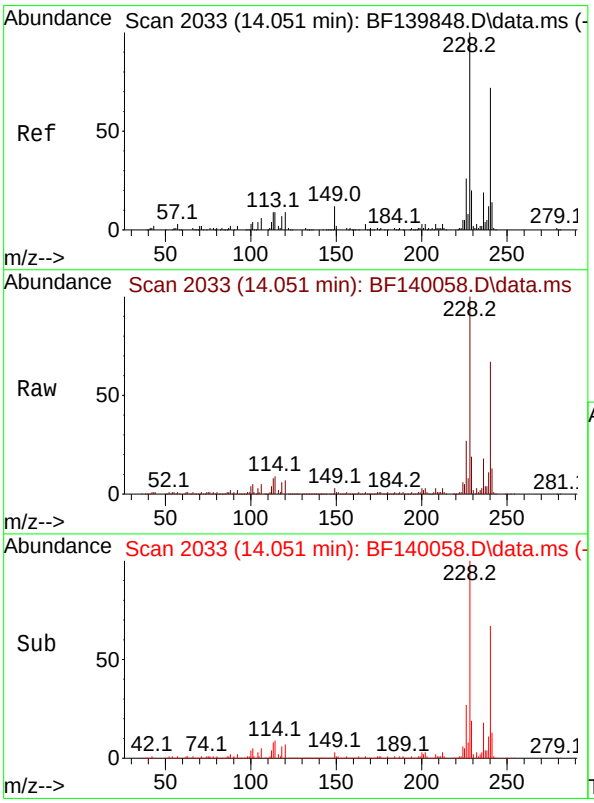
Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.9
203	17.6	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

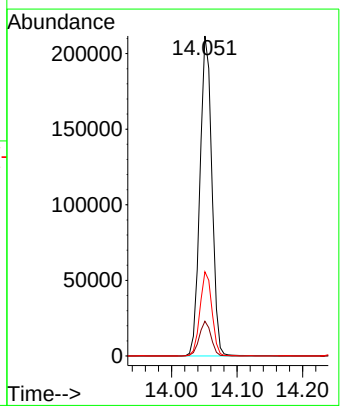
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

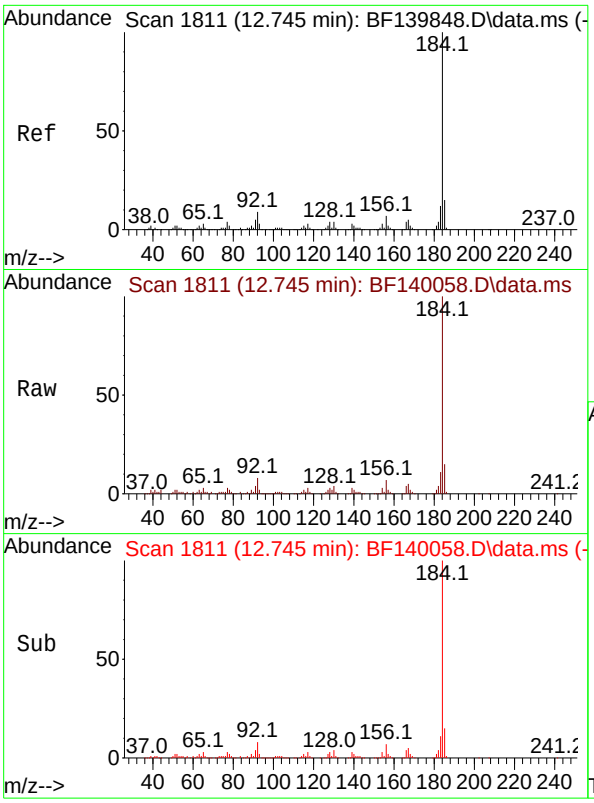


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:240 Resp: 268566

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.4	14.2
236	26.3	20.9	31.3





#77
Benzidine
Concen: 55.387 ng
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

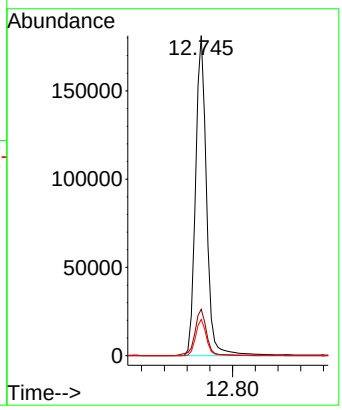
Tgt Ion:184 Resp: 24459

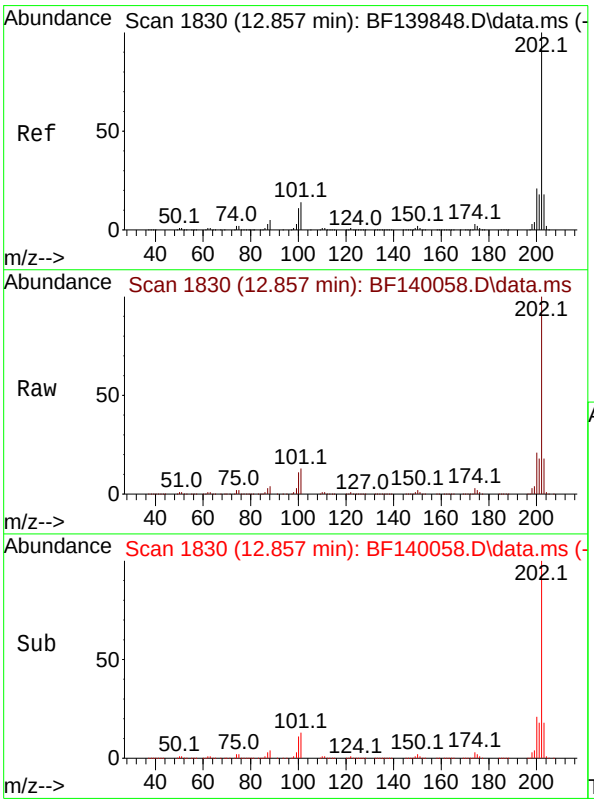
Ion	Ratio	Lower	Upper
184	100		
185	14.5	12.0	18.0
183	11.3	9.4	14.2

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

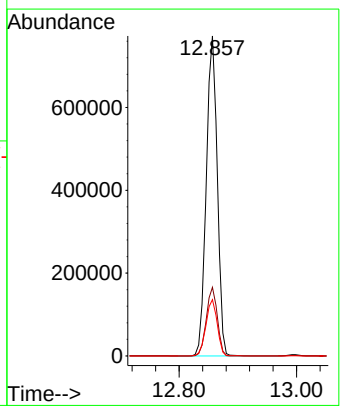


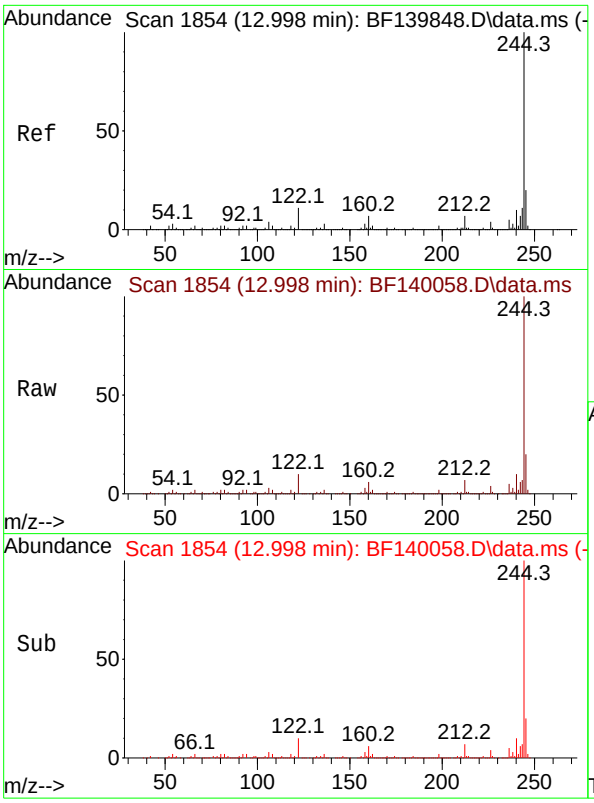


#78
Pyrene
Concen: 42.526 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:202 Resp: 999723

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	17.6	14.2	21.4





#79
Terphenyl-d14
Concen: 70.432 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

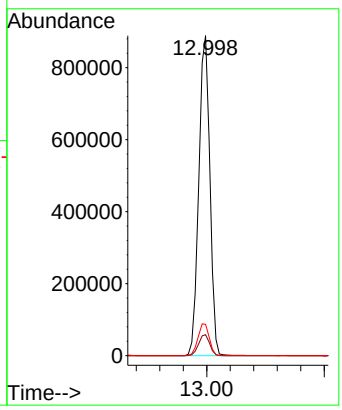
Tgt Ion:244 Resp: 116083

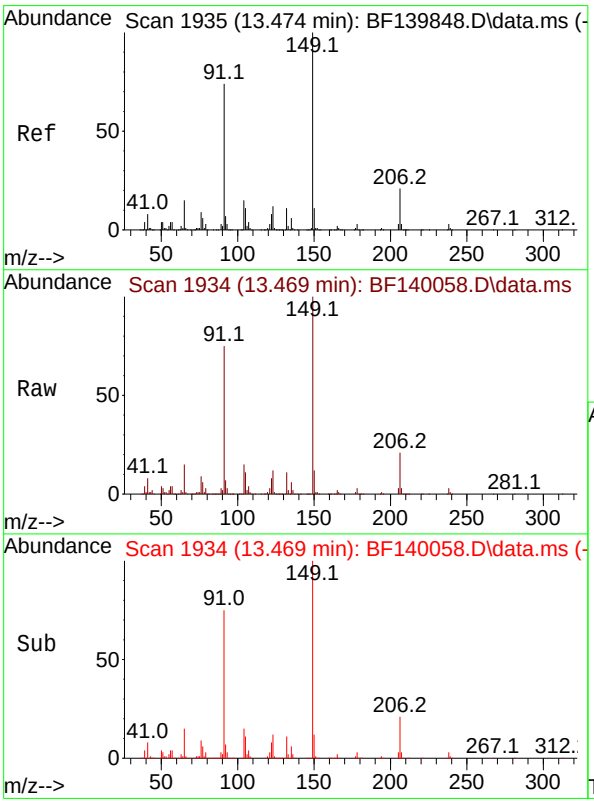
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.7	8.5
122	9.8	8.6	13.0

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

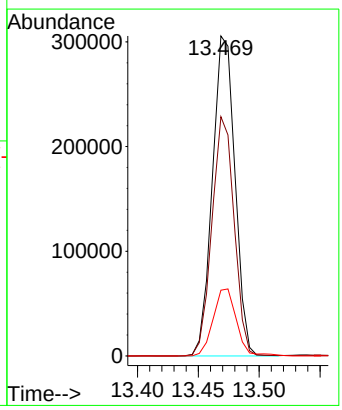


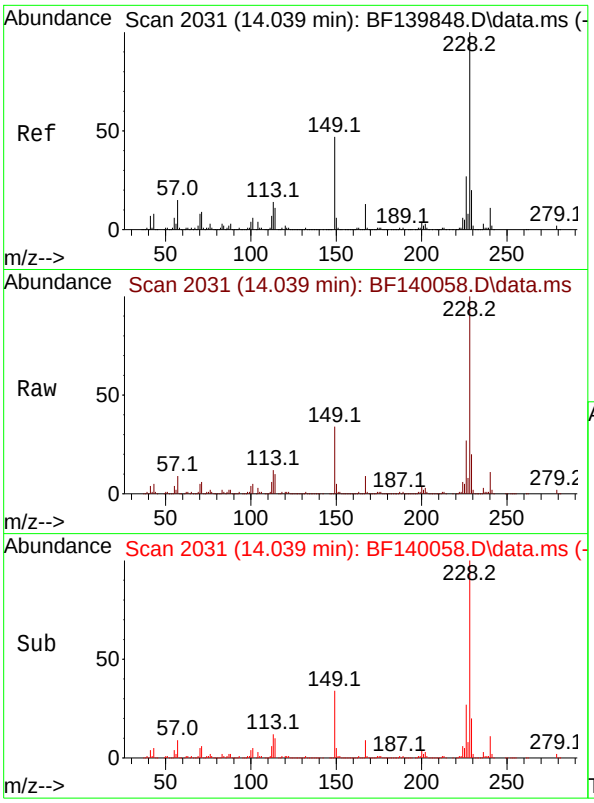


#80
Butylbenzylphthalate
Concen: 56.030 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:149 Resp: 394890

Ion	Ratio	Lower	Upper
149	100		
91	74.7	59.4	89.2
206	20.6	16.4	24.6





#81
Benzo(a)anthracene
Concen: 44.834 ng
RT: 14.039 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

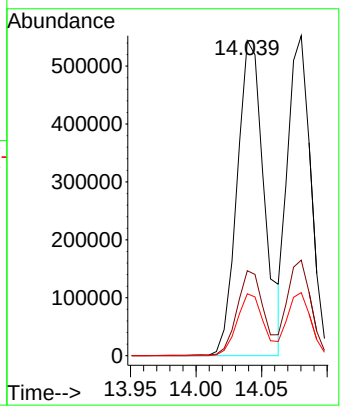
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

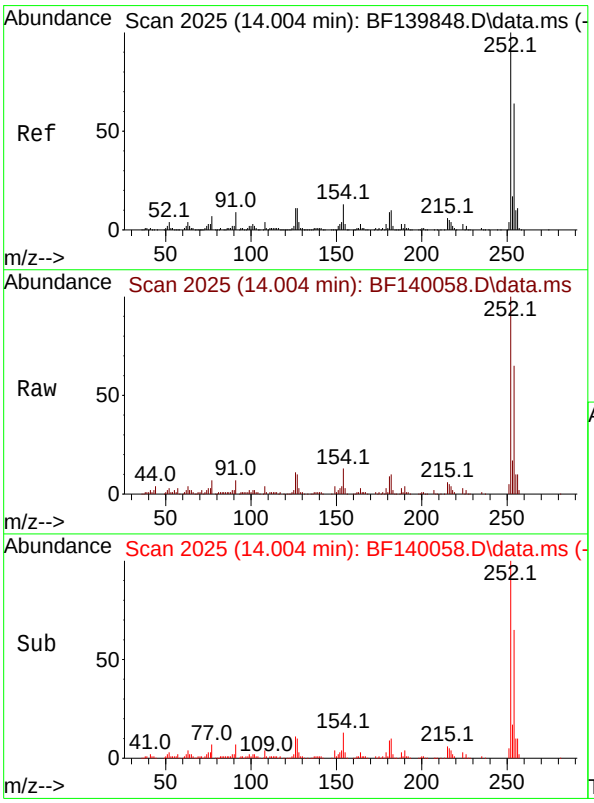
Tgt Ion:228 Resp: 78381(

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.6	32.4
229	19.7	16.1	24.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

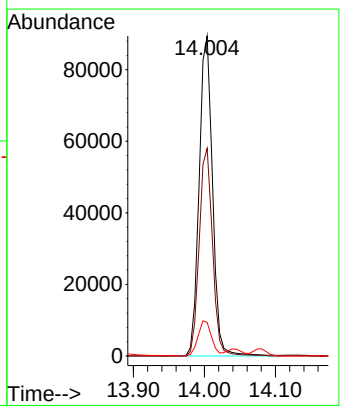


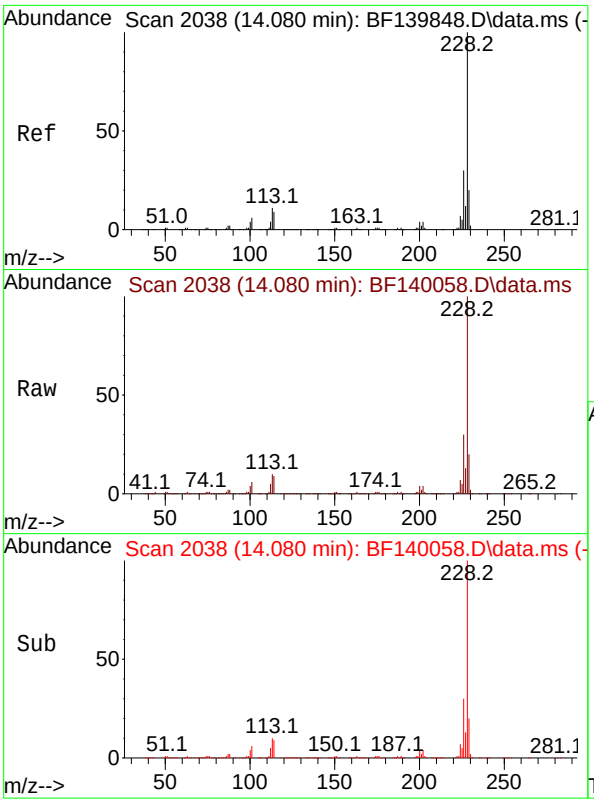


#82
3,3'-Dichlorobenzidine
Concen: 23.038 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:252 Resp: 117434

Ion	Ratio	Lower	Upper
252	100		
254	64.9	50.8	76.2
126	10.5	8.9	13.3

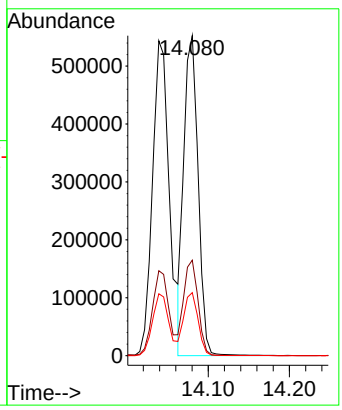




#83
Chrysene
Concen: 42.097 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:228 Resp: 67480

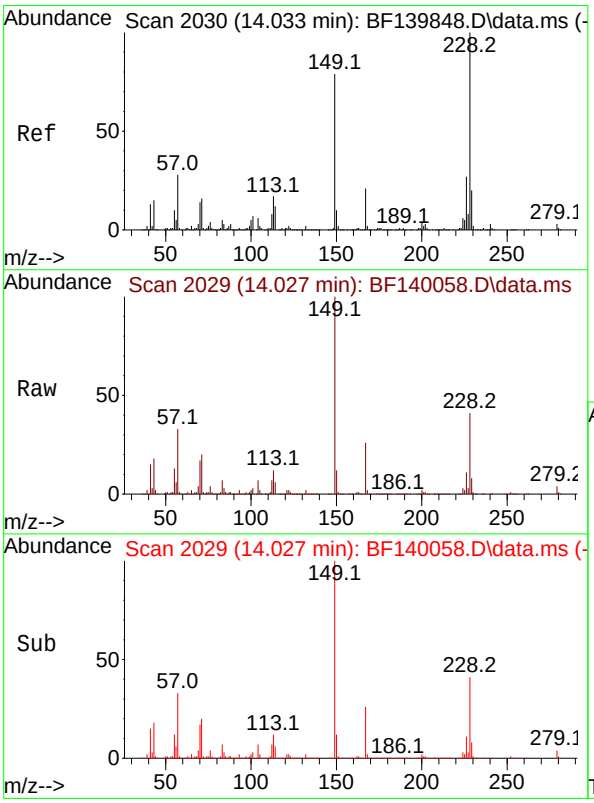
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.1	36.1
229	19.7	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

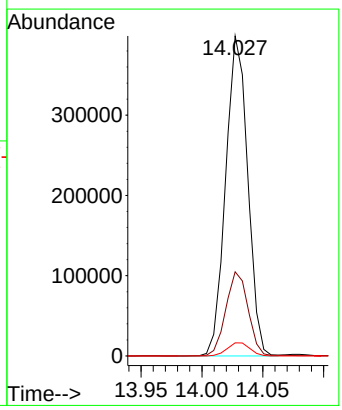
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

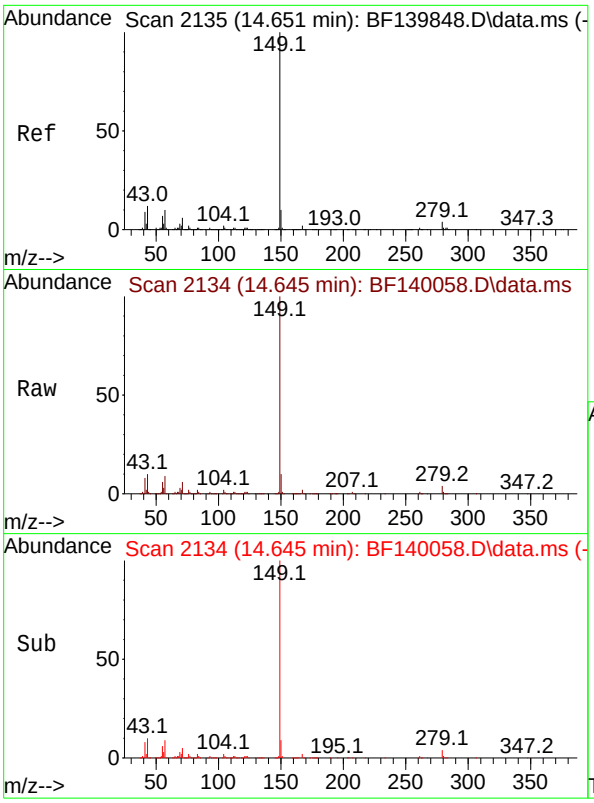


#84
Bis(2-ethylhexyl)phthalate
Concen: 63.615 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:149 Resp: 503026

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.4	32.0
279	4.1	3.0	4.4





#85
Di-n-octyl phthalate
Concen: 55.709 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

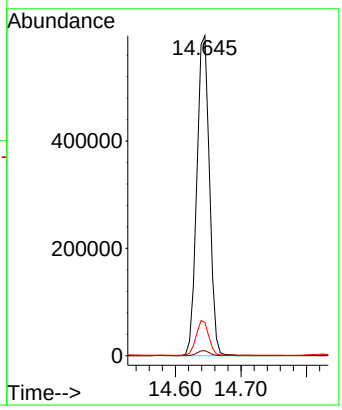
Tgt Ion:149 Resp: 80124

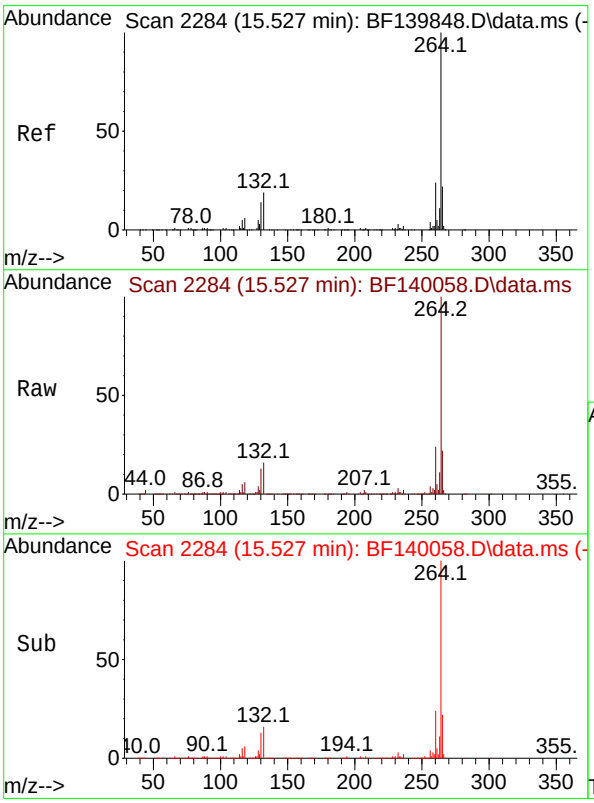
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.8	9.8	14.6

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

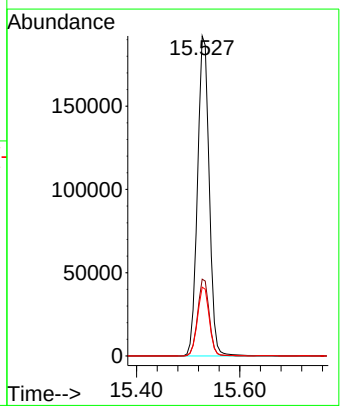


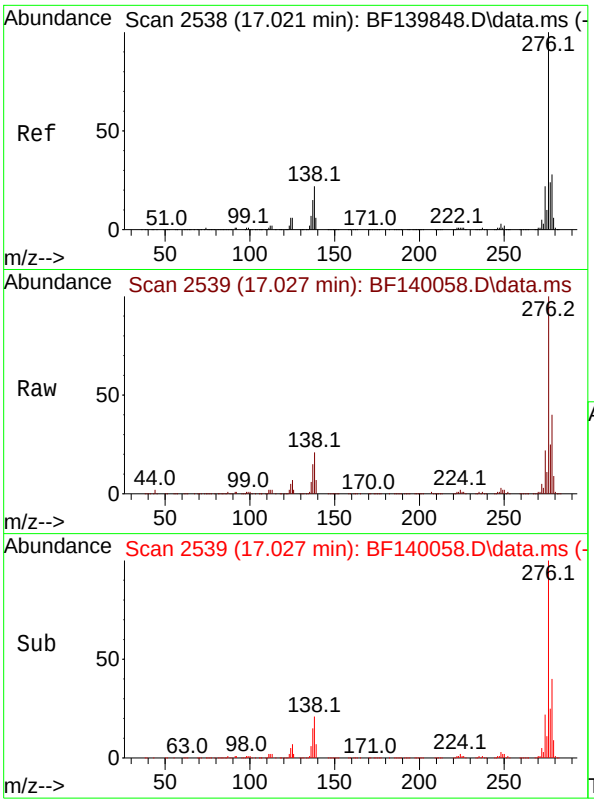


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:264 Resp: 301700

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	21.5	17.4	26.0

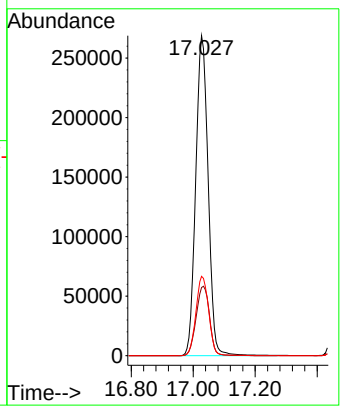




#87
Indeno(1,2,3-cd)pyrene
Concen: 38.491 ng
RT: 17.027 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:276 Resp: 74707

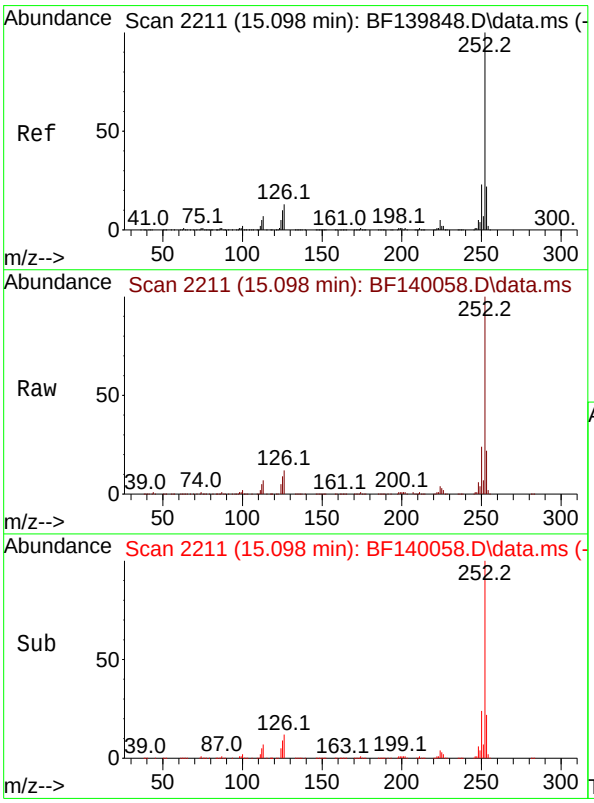
Ion	Ratio	Lower	Upper
276	100		
138	23.3	20.4	30.6
277	25.5	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

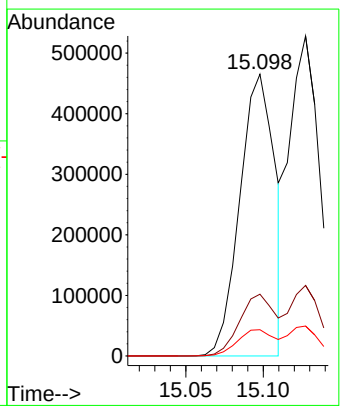
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

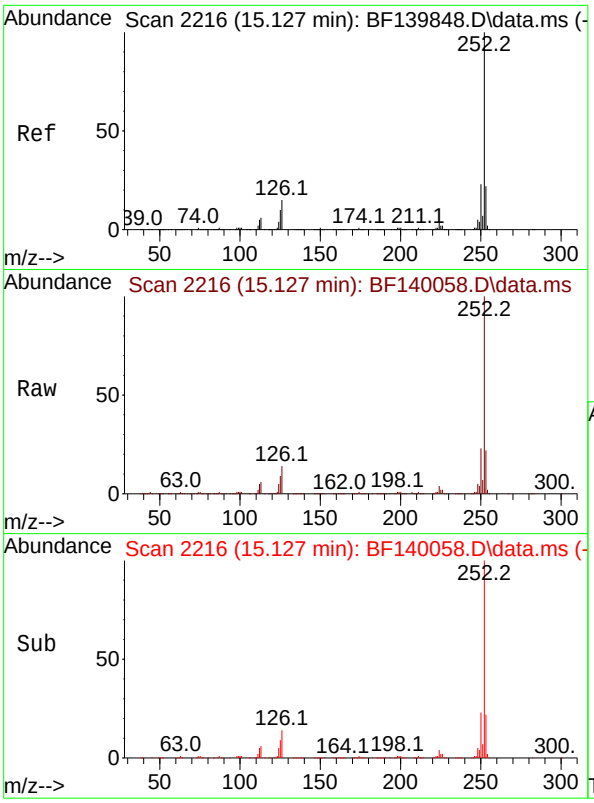


#88
Benzo(b)fluoranthene
Concen: 39.740 ng
RT: 15.098 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:252 Resp: 730351

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	9.3	7.9	11.9





#89
Benzo(k)fluoranthene
Concen: 45.338 ng
RT: 15.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

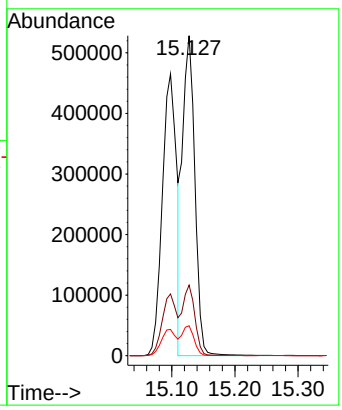
Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

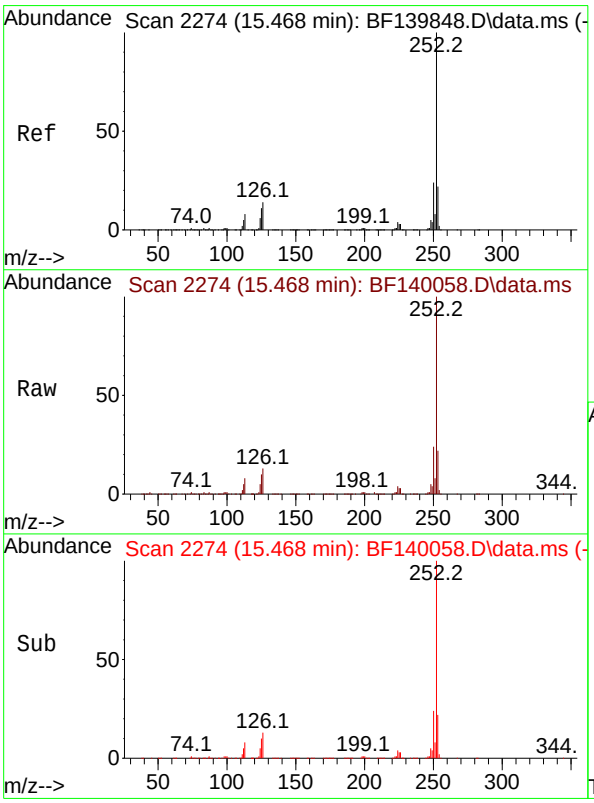
Tgt Ion:252 Resp: 71860

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	9.4	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

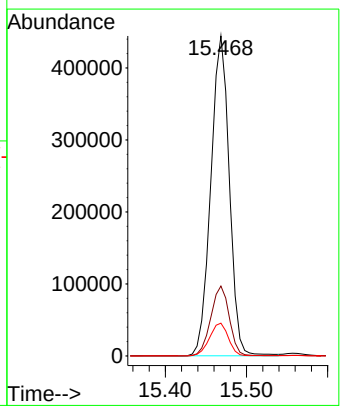


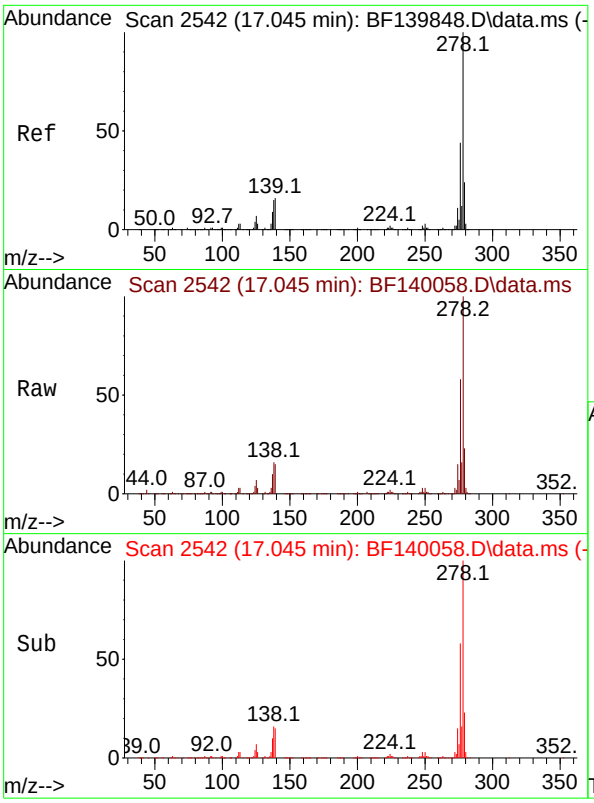


#90
Benzo(a)pyrene
Concen: 46.566 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:252 Resp: 704184

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9
125	10.2	8.7	13.1





#91
Dibenzo(a,h)anthracene
Concen: 38.488 ng
RT: 17.045 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

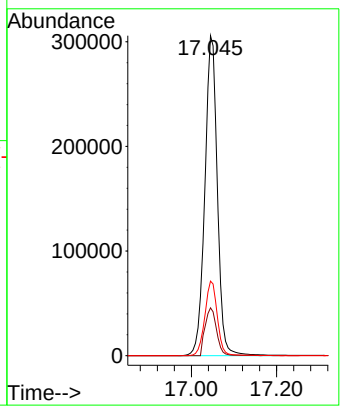
Tgt Ion:278 Resp: 62317

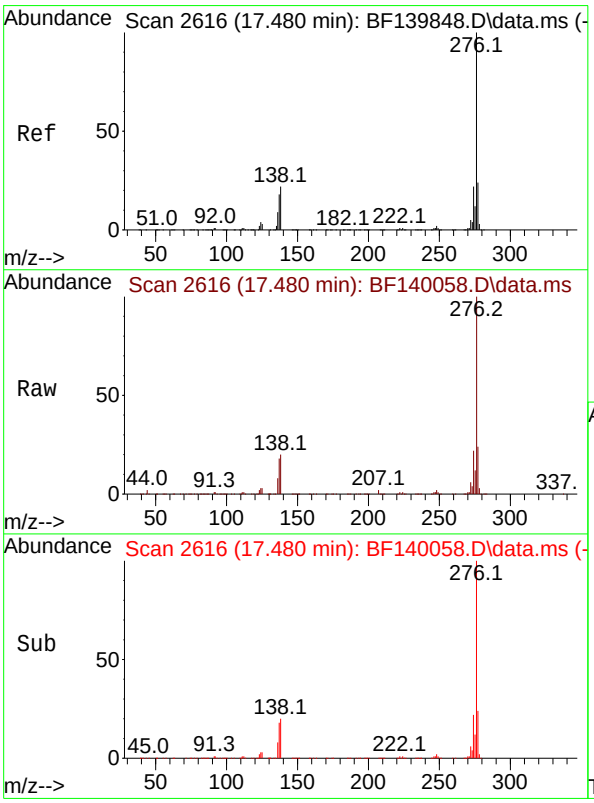
Ion	Ratio	Lower	Upper
278	100		
139	14.9	13.1	19.7
279	23.3	19.0	28.4

Instrument :
BNA_F
ClientSampleId :
BP-F-20MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

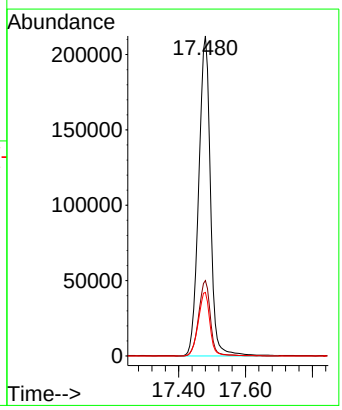




#92
Benzo(g,h,i)perylene
Concen: 31.961 ng
RT: 17.480 min Scan# 2616
Delta R.T. 0.000 min
Lab File: BF140058.D
Acq: 26 Oct 2024 14:27

Tgt Ion:276 Resp: 516906

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.6
138	19.9	17.4	26.0



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

Manual Integration Report

Sequence:	BF101824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF139848.D	Phenol	yogesh	10/21/2024 6:33:45 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC050	BF139849.D	Phenol	yogesh	10/21/2024 6:33:46 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC060	BF139850.D	Phenol	yogesh	10/21/2024 6:33:47 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC080	BF139851.D	Aniline	yogesh	10/21/2024 6:33:49 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICV040	BF139852.D	Phenol	yogesh	10/21/2024 6:33:50 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF102624	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140050.D	Phenol	yogesh	10/29/2024 1:34:09 AM	mohammad	10/29/2024 1:38:32 AM	Peak Integrated by Software
PB164401BS	BF140052.D	Caprolactam	yogesh	10/29/2024 1:34:10 AM	mohammad	10/29/2024 1:38:32 AM	Peak Integrated by Software
PB164401BS	BF140052.D	Phenol	yogesh	10/29/2024 1:34:10 AM	mohammad	10/29/2024 1:38:32 AM	Peak Integrated by Software
P4547-05MS	BF140057.D	Caprolactam	yogesh	10/29/2024 1:34:15 AM	mohammad	10/29/2024 1:38:32 AM	Peak Integrated by Software
P4547-05MS	BF140057.D	Phenol	yogesh	10/29/2024 1:34:15 AM	mohammad	10/29/2024 1:38:32 AM	Peak Integrated by Software
P4547-05MSD	BF140058.D	Caprolactam	yogesh	10/29/2024 1:34:17 AM	mohammad	10/29/2024 1:38:32 AM	Peak Integrated by Software
P4547-05MSD	BF140058.D	Phenol	yogesh	10/29/2024 1:34:17 AM	mohammad	10/29/2024 1:38:32 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF111324	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF140333.D	Benzoic acid	yogesh	11/14/2024 3:08:33 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	2,3,4,6-Tetrachlorophenol	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	Benzoic acid	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC080	BF140339.D	Caprolactam	yogesh	11/14/2024 3:08:41 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139843.D	18 Oct 2024 09:22	RC/JU	Ok
2	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27	RC/JU	Ok
3	SSTDICC005	BF139845.D	18 Oct 2024 10:55	RC/JU	Ok
4	SSTDICC010	BF139846.D	18 Oct 2024 11:23	RC/JU	Ok
5	SSTDICC020	BF139847.D	18 Oct 2024 11:52	RC/JU	Ok
6	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	RC/JU	Ok,M
7	SSTDICC050	BF139849.D	18 Oct 2024 12:49	RC/JU	Ok,M
8	SSTDICC060	BF139850.D	18 Oct 2024 13:17	RC/JU	Ok,M
9	SSTDICC080	BF139851.D	18 Oct 2024 13:46	RC/JU	Ok,M
10	SSTDICV040	BF139852.D	18 Oct 2024 14:19	RC/JU	Ok,M
11	PB164211BL	BF139853.D	18 Oct 2024 14:48	RC/JU	Ok
12	P4405-01	BF139854.D	18 Oct 2024 15:21	RC/JU	Ok
13	P4431-01	BF139855.D	18 Oct 2024 15:50	RC/JU	Ok,M
14	P4421-01	BF139856.D	18 Oct 2024 16:18	RC/JU	Ok,M
15	P4422-01	BF139857.D	18 Oct 2024 16:46	RC/JU	Ok
16	P4425-01	BF139858.D	18 Oct 2024 17:15	RC/JU	Ok
17	P4425-03	BF139859.D	18 Oct 2024 17:44	RC/JU	Ok
18	P4425-05	BF139860.D	18 Oct 2024 18:12	RC/JU	Ok
19	P4425-07	BF139861.D	18 Oct 2024 18:41	RC/JU	ReRun
20	P4425-09	BF139862.D	18 Oct 2024 19:09	RC/JU	ReRun
21	P4426-03	BF139863.D	18 Oct 2024 19:37	RC/JU	ReRun

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4426-07	BF139864.D	18 Oct 2024 20:05	RC/JU	ReRun
23	P4426-17	BF139865.D	18 Oct 2024 20:34	RC/JU	ReRun
24	P4426-11	BF139866.D	18 Oct 2024 21:02	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 # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM				
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM				
SubDirectory	BF102624	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140049.D	26 Oct 2024 10:10	RC/JU	Ok
2	SSTDCCC040	BF140050.D	26 Oct 2024 10:38	RC/JU	Ok,M
3	PB164401BL	BF140051.D	26 Oct 2024 11:06	RC/JU	Ok
4	PB164401BS	BF140052.D	26 Oct 2024 11:34	RC/JU	Ok,M
5	P4508-09	BF140053.D	26 Oct 2024 12:06	RC/JU	Ok
6	P4508-09MS	BF140054.D	26 Oct 2024 12:34	RC/JU	Ok,M
7	P4508-09MSD	BF140055.D	26 Oct 2024 13:02	RC/JU	Ok,M
8	P4547-05	BF140056.D	26 Oct 2024 13:30	RC/JU	Ok
9	P4547-05MS	BF140057.D	26 Oct 2024 13:58	RC/JU	Ok,M
10	P4547-05MSD	BF140058.D	26 Oct 2024 14:27	RC/JU	Ok,M
11	P4508-05	BF140059.D	26 Oct 2024 14:55	RC/JU	Ok
12	P4517-07	BF140060.D	26 Oct 2024 15:23	RC/JU	Ok
13	P4487-08	BF140061.D	26 Oct 2024 15:51	RC/JU	Ok
14	P4460-04	BF140062.D	26 Oct 2024 16:20	RC/JU	Ok
15	P4460-03	BF140063.D	26 Oct 2024 16:48	RC/JU	Ok
16	P4471-02	BF140064.D	26 Oct 2024 17:16	RC/JU	Ok
17	P4508-12	BF140065.D	26 Oct 2024 17:44	RC/JU	Ok
18	P4508-04	BF140066.D	26 Oct 2024 18:12	RC/JU	Ok
19	P4508-08	BF140067.D	26 Oct 2024 18:40	RC/JU	Ok
20	P4460-02	BF140068.D	26 Oct 2024 19:09	RC/JU	Ok,M
21	P4547-01	BF140069.D	26 Oct 2024 19:37	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 # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4508-01	BF140070.D	26 Oct 2024 20:05	RC/JU	Ok
23	P4545-01	BF140071.D	26 Oct 2024 20:33	RC/JU	Ok,M
24	P4509-01	BF140072.D	26 Oct 2024 21:01	RC/JU	Ok,M
25	P4531-01	BF140073.D	26 Oct 2024 21:29	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM				
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM				
SubDirectory	BF111324	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140331.D	13 Nov 2024 08:35	RC/JU	Ok
2	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01	RC/JU	Ok
3	SSTDICC005	BF140333.D	13 Nov 2024 09:27	RC/JU	Ok,M
4	SSTDICC010	BF140334.D	13 Nov 2024 09:53	RC/JU	Ok,M
5	SSTDICC020	BF140335.D	13 Nov 2024 10:29	RC/JU	Ok
6	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	RC/JU	Not Ok
7	SSTDICC050	BF140337.D	13 Nov 2024 11:21	RC/JU	Ok
8	SSTDICC060	BF140338.D	13 Nov 2024 11:47	RC/JU	Ok
9	SSTDICC080	BF140339.D	13 Nov 2024 12:13	RC/JU	Ok,M
10	SSTDICCC040	BF140340.D	13 Nov 2024 12:48	RC/JU	Ok
11	SSTDICV040	BF140341.D	13 Nov 2024 13:19	RC/JU	Ok
12	PB164401BL	BF140342.D	13 Nov 2024 13:45	RC/JU	Ok
13	P4495-11	BF140343.D	13 Nov 2024 15:25	RC/JU	Dilution
14	P4495-11DL	BF140344.D	13 Nov 2024 16:02	RC/JU	Ok
15	P3845-03	BF140345.D	13 Nov 2024 16:40	RC/JU	Dilution
16	P3845-03DL	BF140346.D	13 Nov 2024 17:06	RC/JU	Ok
17	P3845-06	BF140347.D	13 Nov 2024 17:32	RC/JU	Dilution
18	P3845-06DL	BF140348.D	13 Nov 2024 17:58	RC/JU	Not Ok
19	SP6681	BF140349.D	13 Nov 2024 18:39	RC/JU	Ok,NS

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 # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/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	BF139843.D	18 Oct 2024 09:22		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF139845.D	18 Oct 2024 10:55	Compound #9,32,54,65,85 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF139846.D	18 Oct 2024 11:23		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF139847.D	18 Oct 2024 11:52	Compound #54 Kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF139849.D	18 Oct 2024 12:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF139850.D	18 Oct 2024 13:17		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF139851.D	18 Oct 2024 13:46		RC/JU	Ok,M
10	SSTDICV040	SSTDICV040	BF139852.D	18 Oct 2024 14:19		RC/JU	Ok,M
11	PB164211BL	PB164211BL	BF139853.D	18 Oct 2024 14:48		RC/JU	Ok
12	P4405-01	MH-121	BF139854.D	18 Oct 2024 15:21		RC/JU	Ok
13	P4431-01	72-11934	BF139855.D	18 Oct 2024 15:50		RC/JU	Ok,M
14	P4421-01	EO-02-101624	BF139856.D	18 Oct 2024 16:18		RC/JU	Ok,M
15	P4422-01	EO-01-101624	BF139857.D	18 Oct 2024 16:46		RC/JU	Ok
16	P4425-01	TP-1	BF139858.D	18 Oct 2024 17:15		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 # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4425-03	TP-2	BF139859.D	18 Oct 2024 17:44		RC/JU	Ok
18	P4425-05	TP-3	BF139860.D	18 Oct 2024 18:12		RC/JU	Ok
19	P4425-07	TP-4	BF139861.D	18 Oct 2024 18:41	Internal Standrad Fail	RC/JU	ReRun
20	P4425-09	TP-5	BF139862.D	18 Oct 2024 19:09	Internal Standrad Fail	RC/JU	ReRun
21	P4426-03	PAD-2	BF139863.D	18 Oct 2024 19:37	Internal Standrad Fail	RC/JU	ReRun
22	P4426-07	PAD-4	BF139864.D	18 Oct 2024 20:05	Internal Standrad Fail	RC/JU	ReRun
23	P4426-17	PAD-9	BF139865.D	18 Oct 2024 20:34	Internal Standard Fail	RC/JU	ReRun
24	P4426-11	PAD-6	BF139866.D	18 Oct 2024 21:02	Internal Standard Fail	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 # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/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	BF140049.D	26 Oct 2024 10:10		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140050.D	26 Oct 2024 10:38		RC/JU	Ok,M
3	PB164401BL	PB164401BL	BF140051.D	26 Oct 2024 11:06		RC/JU	Ok
4	PB164401BS	PB164401BS	BF140052.D	26 Oct 2024 11:34		RC/JU	Ok,M
5	P4508-09	BP-F22	BF140053.D	26 Oct 2024 12:06		RC/JU	Ok
6	P4508-09MS	BP-F22MS	BF140054.D	26 Oct 2024 12:34		RC/JU	Ok,M
7	P4508-09MSD	BP-F22MSD	BF140055.D	26 Oct 2024 13:02		RC/JU	Ok,M
8	P4547-05	BP-F-20	BF140056.D	26 Oct 2024 13:30		RC/JU	Ok
9	P4547-05MS	BP-F-20MS	BF140057.D	26 Oct 2024 13:58		RC/JU	Ok,M
10	P4547-05MSD	BP-F-20MSD	BF140058.D	26 Oct 2024 14:27		RC/JU	Ok,M
11	P4508-05	BP-F23	BF140059.D	26 Oct 2024 14:55		RC/JU	Ok
12	P4517-07	FOREST-ST-CO	BF140060.D	26 Oct 2024 15:23		RC/JU	Ok
13	P4487-08	BP-B27	BF140061.D	26 Oct 2024 15:51		RC/JU	Ok
14	P4460-04	WB-303-BOT	BF140062.D	26 Oct 2024 16:20		RC/JU	Ok
15	P4460-03	WB-303-BOT	BF140063.D	26 Oct 2024 16:48		RC/JU	Ok
16	P4471-02	B-180-SB02	BF140064.D	26 Oct 2024 17:16		RC/JU	Ok
17	P4508-12	BP-F22	BF140065.D	26 Oct 2024 17:44		RC/JU	Ok
18	P4508-04	TP-3	BF140066.D	26 Oct 2024 18:12		RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4508-08	BP-F23	BF140067.D	26 Oct 2024 18:40		RC/JU	Ok
20	P4460-02	WB-303-TOP	BF140068.D	26 Oct 2024 19:09		RC/JU	Ok,M
21	P4547-01	BP-F-21	BF140069.D	26 Oct 2024 19:37		RC/JU	Ok
22	P4508-01	TP-3	BF140070.D	26 Oct 2024 20:05		RC/JU	Ok
23	P4545-01	VNJ-215	BF140071.D	26 Oct 2024 20:33		RC/JU	Ok,M
24	P4509-01	AU-06-10232024	BF140072.D	26 Oct 2024 21:01		RC/JU	Ok,M
25	P4531-01	OR-03-102424	BF140073.D	26 Oct 2024 21:29		RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM		
SubDirectory	BF111324	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/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	BF140331.D	13 Nov 2024 08:35		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140333.D	13 Nov 2024 09:27	Compound#41,54,77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF140334.D	13 Nov 2024 09:53		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF140335.D	13 Nov 2024 10:29		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	Injection Error	RC/JU	Not Ok
7	SSTDICC050	SSTDICC050	BF140337.D	13 Nov 2024 11:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF140338.D	13 Nov 2024 11:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140339.D	13 Nov 2024 12:13	Compound#09 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICCC040	SSTDICCC040	BF140340.D	13 Nov 2024 12:48		RC/JU	Ok
11	SSTDICV040	ICVBF111324	BF140341.D	13 Nov 2024 13:19		RC/JU	Ok
12	PB164401BL	PB164401BL	BF140342.D	13 Nov 2024 13:45		RC/JU	Ok
13	P4495-11	PT-BNA-SOIL	BF140343.D	13 Nov 2024 15:25	PT Sample, Need 5X Dilution	RC/JU	Dilution
14	P4495-11DL	PT-BNA-SOILDL	BF140344.D	13 Nov 2024 16:02		RC/JU	Ok
15	P3845-03	PT-BN-WP	BF140345.D	13 Nov 2024 16:40	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution
16	P3845-03DL	PT-BN-WPDL	BF140346.D	13 Nov 2024 17:06		RC/JU	Ok
17	P3845-06	PT-ACIDS-WP	BF140347.D	13 Nov 2024 17:32	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution

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 # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM		
SubDirectory	BF111324	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P3845-06DL	PT-ACIDS-WPDL	BF140348.D	13 Nov 2024 17:58	Dilution not matching (Low results)	RC/JU	Not Ok
19	SP6681	SP6681	BF140349.D	13 Nov 2024 18:39	8270-625.1 SPIKE SOLUTION	RC/JU	Ok,NS

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4488-09	HCC-1	1	1.00	1.00	2.00	2.00	100.0	oil sample
P4488-10	HCC-2	2	1.00	1.00	2.00	2.00	100.0	oil sample
P4495-01	PT-AN-SOIL	3	1.00	1.00	2.00	2.00	100.0	
P4495-02	PT-CORR-SOIL	4	1.00	1.00	2.00	2.00	100.0	
P4495-03	PT-CN-SOIL	5	1.00	1.00	2.00	2.00	100.0	
P4495-04	PT-CN-SOIL	6	1.00	1.00	2.00	2.00	100.0	
P4495-05	PT-FP-SOIL	7	1.00	1.00	2.00	2.00	100.0	
P4495-06	PT-CR6-SOIL	8	1.00	1.00	2.00	2.00	100.0	
P4495-07	PT-NUT-SOIL	9	1.00	1.00	2.00	2.00	100.0	
P4495-08	PT-NUT-SOIL	10	1.00	1.00	2.00	2.00	100.0	
P4495-09	PT-OGR-SOIL	11	1.00	1.00	2.00	2.00	100.0	
P4495-10	PT-MET-SOIL	12	1.00	1.00	2.00	2.00	100.0	
P4495-11	PT-BNA-SOIL	13	1.00	1.00	2.00	2.00	100.0	
P4495-12	PT-TRIAZINE-SOIL	14	1.00	1.00	2.00	2.00	100.0	
P4495-13	PT-PAH-SOIL	15	1.00	1.00	2.00	2.00	100.0	
P4495-14	PT-DIES-SOIL	16	1.00	1.00	2.00	2.00	100.0	
P4495-15	PT-GAS-SOIL	17	1.00	1.00	2.00	2.00	100.0	
P4495-16	PT-NJEPH-SOIL	18	1.00	1.00	2.00	2.00	100.0	
P4495-17	PT-HERB-SOIL	19	1.00	1.00	2.00	2.00	100.0	
P4495-18	PT-PCB-SOIL	20	1.00	1.00	2.00	2.00	100.0	
P4495-19	PT-PCBO-SOIL	21	1.00	1.00	2.00	2.00	100.0	
P4495-20	PT-PEST-SOIL	22	1.00	1.00	2.00	2.00	100.0	
P4495-21	PT-CHLR-SOIL	23	1.00	1.00	2.00	2.00	100.0	
P4495-22	PT-TXP-SOIL	24	1.00	1.00	2.00	2.00	100.0	
P4495-23	PT-VOA-SOIL	25	1.00	1.00	2.00	2.00	100.0	
P4495-24	PT-SOL-SOIL	26	0.92	8.80	9.72	7.58	75.7	
P4495-25	PT-NO2-SOIL	27	1.00	1.00	2.00	2.00	100.0	
P4508-01	TP-3	28	1.14	8.38	9.52	8.64	89.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4508-02	TP-3-EPH	29	1.15	8.81	9.96	9.22	91.6	
P4508-03	TP-3-VOC	30	1.15	8.66	9.81	8.88	89.3	
P4508-05	BP-F23	31	1.15	8.82	9.97	9.22	91.5	
P4508-06	BP-F23-EPH	32	1.14	8.83	9.97	9.29	92.3	
P4508-07	BP-F23-VOC	33	1.15	8.40	9.55	8.61	88.8	
P4508-09	BP-F22	34	1.18	8.78	9.96	9.15	90.8	
P4508-10	BP-F22-EPH	35	1.15	8.70	9.85	8.98	90.0	
P4508-11	BP-F22-VOC	36	1.16	8.60	9.76	8.68	87.4	
P4509-02	AU-06-10232024	37	1.12	8.82	9.94	9.44	94.3	
P4510-01	FDH119M-1-1	38	1.00	1.00	2.00	2.00	100.0	pilc
P4510-02	FDH119M-1-2	39	1.00	1.00	2.00	2.00	100.0	pilc
P4510-03	BC271327-1-1	40	1.00	1.00	2.00	2.00	100.0	pilc
P4510-04	BC271327-1-2	41	1.00	1.00	2.00	2.00	100.0	pilc
P4510-05	BC271327-2-1	42	1.00	1.00	2.00	2.00	100.0	pilc
P4510-06	BC271327-2-2	43	1.00	1.00	2.00	2.00	100.0	pilc
P4510-07	FDA886K-1-1	44	1.00	1.00	2.00	2.00	100.0	pilc
P4510-08	FDA886K-1-2	45	1.00	1.00	2.00	2.00	100.0	pilc
P4510-09	FDA886K-2-1	46	1.00	1.00	2.00	2.00	100.0	pilc
P4510-10	FDA886K-2-2	47	1.00	1.00	2.00	2.00	100.0	pilc
P4510-11	HID111K-1-1	48	1.00	1.00	2.00	2.00	100.0	pilc
P4510-12	HID111K-1-2	49	1.00	1.00	2.00	2.00	100.0	pilc
P4510-13	HID111K-2-1	50	1.00	1.00	2.00	2.00	100.0	pilc
P4510-14	HID111K-2-2	51	1.00	1.00	2.00	2.00	100.0	pilc
P4510-15	HID111K-3-1	52	1.00	1.00	2.00	2.00	100.0	pilc
P4510-16	HID111K-3-2	53	1.00	1.00	2.00	2.00	100.0	pilc
P4510-17	FDA563W-1-1	54	1.00	1.00	2.00	2.00	100.0	pilc
P4510-18	FDA563W-1-2	55	1.00	1.00	2.00	2.00	100.0	pilc
P4510-19	FDA563W-2-1	56	1.00	1.00	2.00	2.00	100.0	pilc

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4510-20	FDA563W-2-2	57	1.00	1.00	2.00	2.00	100.0	oilc
P4510-21	JEC128C-1-1	58	1.00	1.00	2.00	2.00	100.0	oilc
P4510-22	JEC128C-1-2	59	1.00	1.00	2.00	2.00	100.0	oilc
P4510-23	JEC128C-2-1	60	1.00	1.00	2.00	2.00	100.0	oilc
P4510-24	JEC128C-2-2	61	1.00	1.00	2.00	2.00	100.0	oilc
P4511-02	267	62	1.00	1.00	2.00	2.00	100.0	debris
P4512-03	VNJ-212	63	1.15	8.81	9.96	9.66	96.6	
P4512-04	VNJ-212-E2	64	1.16	8.48	9.64	9.39	97.1	
P4513-01	D3683	65	1.00	1.00	2.00	2.00	100.0	oil sample
P4513-02	D3694	66	1.00	1.00	2.00	2.00	100.0	debris
P4513-03	D3695	67	1.00	1.00	2.00	2.00	100.0	debris
P4514-01	BC274653-1-1	68	1.00	1.00	2.00	2.00	100.0	oilc
P4514-02	BC274653-1-2	69	1.00	1.00	2.00	2.00	100.0	oilc
P4514-03	BC274767-1-1	70	1.00	1.00	2.00	2.00	100.0	oilc
P4514-04	BC274767-1-2	71	1.00	1.00	2.00	2.00	100.0	oilc
P4514-05	BC274767-2-1	72	1.00	1.00	2.00	2.00	100.0	oilc
P4514-06	BC274767-2-2	73	1.00	1.00	2.00	2.00	100.0	oilc
P4515-01	CHVB0783	74	1.15	8.83	9.98	5.28	46.8	
P4516-01	72-11986	75	1.12	8.67	9.79	8.93	90.1	
P4517-01	NASSAU-ST-CO	76	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-03	S.JEFFERSON-CO-1	77	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-05	S.JEFFERSON-CO-2	78	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-07	FOREST-ST-CO	79	1.00	1.00	2.00	2.00	100.0	CONCRETE sample

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

MB133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4488-09	HCC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4488-10	HCC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4495-01	PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-02	PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-03	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-04	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-05	PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-06	PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-07	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-08	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-09	PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-10	PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-11	PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-12	PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-13	PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-14	PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-15	PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-16	PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-17	PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-18	PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-19	PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: JB (WC)

Raw Sample Relinquished by:

Date/Time 10/23/24 17:30

Raw Sample Received by:

Raw Sample Relinquished by: JB (WC)

WORKLIST(Hardcopy Internal Chain)

WB 133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-20	PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-21	PT-CHLR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-22	PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-23	PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-24	PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-25	PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4508-01	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-02	TP-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-03	TP-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-05	BP-F23	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-06	BP-F23-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-07	BP-F23-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-09	BP-F22	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-10	BP-F22-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-11	BP-F22-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4509-02	AU-06-10232024	Solid	Percent Solids	Cool 4 deg C	PSEG05	K61	10/23/2024	Chemtech -SO
P4510-01	FDH119M-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-02	FDH119M-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-03	BC271327-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-04	BC271327-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-05	BC271327-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: JB (WC)

Raw Sample Relinquished by: CP

Date/Time 10/23/24 17:30

Raw Sample Received by: CP

Raw Sample Relinquished by: JB WC

WORKLIST(Hardcopy Internal Chain)

B33085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4510-06	BC271327-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-07	FDA886K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-08	FDA886K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-09	FDA886K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-10	FDA886K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-11	HID111K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-12	HID111K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-13	HID111K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-14	HID111K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-15	HID111K-3-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-16	HID111K-3-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-17	FDA563W-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-18	FDA563W-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-19	FDA563W-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-20	FDA563W-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-21	JEC128C-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-22	JEC128C-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-23	JEC128C-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-24	JEC128C-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4511-02	267	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4512-03	VNJ-212	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 1610

Raw Sample Received by: JB CWC

Raw Sample Relinquished by: CP

Date/Time 10/23/24 1730

Raw Sample Received by: CP

Raw Sample Relinquished by: JB CWC

WORKLIST(Hardcopy Internal Chain)

WB 133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4512-04	VNJ-212-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-01	D3683	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-02	D3694	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-03	D3695	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4514-01	BC274653-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-02	BC274653-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-03	BC274767-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-04	BC274767-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-05	BC274767-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-06	BC274767-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4515-01	CHVB0783	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4516-01	72-11986	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4517-01	NASSAU-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-03	S.JEFFERSON-CO-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-05	S.JEFFERSON-CO-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-07	FOREST-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 10/23/24 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164401

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 10/25/2024

Extraction Start Time : 09:50

Extraction End Date : 10/25/2024

Extraction End Time : 12:50

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6638
MDL	1.0ML	N/A	SP6507
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2538
Baked Na2SO4	N/A	EP2551
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/25/24	RP (Ext 205)	Rc/SVOC
12:55	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164401

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 10/25/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164401BL	SBLK401	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U6-1
PB164401BS	SLCS401	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
P4368-03	MDL-SOIL-03-QT4-2024	SVOC-Chemtec h Full -25	30.01	N/A	ritesh	Evelyn	1			3
P4495-11	PT-BNA-SOIL	SVOCMS Group1	30.07	N/A	ritesh	Evelyn	1			4
P4495-12	PT-TRIAZINE-SOIL	SVOCMS Group4	30.02	N/A	ritesh	Evelyn	1			5
P4531-01	OR-03-102424	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	C		6
P4545-01	VNJ-215	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		U1-1
P4547-01	BP-F-21	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	C		2
P4547-05	BP-F-20	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	C		3
P4547-05MS	BP-F-20MS	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	C		4
P4547-05MS D	BP-F-20MSD	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	C		5

* Extracts relinquished on the same date as received.

10/25/24

184769
9:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4545 **WorkList ID :** 184769 **Department :** Extraction **Date :** 10-25-2024 08:53:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-11	PT-BNA-SOIL	Solid	SVOCMS Group1	Cool 4 deg C	CHEM02	QA Of	10/21/2024	8270E
P4495-12	PT-TRIAZINE-SOIL	Solid	SVOCMS Group4	Cool 4 deg C	CHEM02	QA Of	10/21/2024	8270E
P4531-01	OR-03-102424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CHEM02	QA Of	10/21/2024	8270E
P4547-01	BP-F-21	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K61	10/24/2024	8270E
P4547-05	BP-F-20	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/24/2024	8270E

Date/Time 10/25/24 9:45
Raw Sample Received by: RJ (Exel Logy
Raw Sample Relinquished by: [signature]

Date/Time 10/25/24 10:10
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RJ (Exel Logy

184401
9:10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4368sv **WorkList ID :** 184741 **Department :** Extraction **Date :** 10-25-2024 09.00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4368-03	MDL-SOIL-03-QT4-2024	Solid	SVOC-Chemtech Full -25	Cool 4 deg C	CHEM02	QA Of	10/09/2024	8270E

Date/Time 10/25/24 9:45
Raw Sample Received by: RJ (Ger Lab)
Raw Sample Relinquished by:

Date/Time 10/25/24 10:00
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Ger Lab)

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

Prep Standard - Chemical Standard Summary

Order ID : P4495

Test : SVOCMS Group1

Prepbatch ID : PB164401,

Sequence ID/Qc Batch ID: BE103024,BE103024,BF102624,BF102924,BF110424,BF110424,BF111324,BF111324,BG110124,BG1

Standard ID :
EP2538,EP2551,SP6506,SP6507,SP6558,SP6559,SP6573,SP6576,SP6580,SP6581,SP6582,SP6583,SP6584,SP658
5,SP6617,SP6618,SP6620,SP6621,SP6622,SP6623,SP6624,SP6625,SP6626,SP6627,SP6628,SP6630,SP6638,

Chemical ID :
10ul/1000ul
sample,E2865,E3551,E3743,E3768,E3786,E3788,E3791,E3793,E3794,E3815,E3822,S10103,S10247,S10393,S10583,
S10711,S10977,S10978,S10979,S10980,S11003,S11004,S11005,S11006,S11007,S11008,S11009,S11010,S11085,S11
098,S11138,S11141,S11159,S11494,S11532,S11533,S11541,S11557,S11566,S11602,S11649,S11670,S11671,S11699,
S11700,S11762,S11766,S11767,S11771,S11772,S11773,S11774,S11775,S11902,S11997,S12004,S12033,S12037,S12
073,S12078,S12080,S12089,S12097,S12105,S12106,S12107,S12108,S12109,S 12110,S12111,S12113,S12117,S1212
6,S12127,S12128,S12129,S12130,S12131,S12132,S12133,S12134,S12187,S12188,S12189,S12207,S12236,S12237,
S12238,S12275,S12312,S12314,S12323,S12324,S12326,S12327,S12375,S12378,S12453,S12454,S12455,S12456,S
12457,S12458,S12459,S12460,S12461,S12509,S12510,S9068,S9934,

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
3868	METHELENE CHLORIDE+ACETONE	EP2538	09/17/2024	03/11/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 09/17/2024

FROM 8000.00000ml of E3793 + 8000.00000ml of E3794 = Final Quantity: 1600.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2551	10/18/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/18/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1366	LOQ & LOD 20 PPM	SP6506	05/16/2024	11/13/2024	Jagrut Upadhyay	None	None	mohammad ahmed 05/16/2024

FROM 0.20000ml of S11762 + 0.40000ml of S11557 + 0.40000ml of S11902 + 0.40000ml of S12089 + 18.60000ml of E3743 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2082	LOQ & LOD 4 PPM	SP6507	05/16/2024	11/13/2024	Jagrut Upadhyay	None	None	mohammad ahmed 05/16/2024

FROM 16.00000ml of E3743 + 4.00000ml of SP6506 = Final Quantity: 20.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3858	SFAM ICALSTOCK 200ppm : 5?.?0 ml	SP6576	08/01/2024	12/14/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/08/2024

FROM 0.05000ml of S12238 + 0.10000ml of S12073 + 0.10000ml of S12080 + 0.15000ml of S12237 + 0.20000ml of E3786 + 0.20000ml of S11533 + 0.20000ml of S11699 + 0.20000ml of S11767 + 0.30000ml of S11532 + 0.30000ml of S11671 + 0.50000ml of S11997 + 0.50000ml of S12236 + 0.50000ml of S12375 + 0.70000ml of S11670 + 1.00000ml of S11602 = Final Quantity: 5.000 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
3860	SFAM SSTD010	SP6580	08/01/2024	12/14/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/08/2024

FROM 0.01000ml of S12037 + 0.95000ml of E3786 + 0.05000ml of SP6576 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3861	SFAM SSTD020	SP6581	08/01/2024	12/14/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/08/2024

FROM 0.01000ml of S12037 + 0.90000ml of E3786 + 0.10000ml of SP6576 = 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
3862	SFAM SSTD040	SP6582	08/01/2024	12/14/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/08/2024

FROM 0.01000ml of S12037 + 0.80000ml of E3786 + 0.20000ml of SP6576 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3863	SFAM SSTD080	SP6583	08/01/2024	12/14/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/08/2024

FROM 0.01000ml of S12037 + 0.60000ml of E3786 + 0.40000ml of SP6576 = 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
3864	SFAM SSTD160	SP6584	08/01/2024	12/14/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/08/2024

FROM 0.01000ml of S12037 + 0.20000ml of E3786 + 0.80000ml of SP6576 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3859	SFAM SSTD005	SP6585	08/01/2024	12/14/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/08/2024

FROM 0.01000ml of S12037 + 0.97500ml of E3786 + 0.02500ml of SP6576 = 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
3865	SFAM ICV STOCK 200 PPM 2.0ml	SP6617	09/09/2024	01/05/2025	Jagrut Upadhyay	None	None	mohammad ahmed 09/11/2024

FROM 0.04000ml of E3791 + 0.04000ml of S10711 + 0.04000ml of S11700 + 0.04000ml of S9068 + 0.04000ml of S9934 + 0.10000ml of S12004 + 0.10000ml of S12378 + 0.20000ml of S12105 + 0.20000ml of S12126 + 0.20000ml of S12453 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3866	SFAM ICV 20 PPM	SP6618	09/09/2024	01/05/2025	Jagrut Upadhyay	None	None	mohammad ahmed 09/11/2024

FROM 0.01000ml of S12312 + 0.90000ml of E3791 + 0.10000ml of SP6617 = 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
3764	8270/625 Stock solution 100 ng	SP6620	09/11/2024	02/08/2025	Jagrut Upadhyay	None	None	mohammad ahmed 09/11/2024

FROM 0.26700ml of S10103 + 0.40000ml of S11494 + 0.50000ml of S12113 + 1.00000ml of S11085 + 1.00000ml of S11098 + 1.00000ml of S11159 + 1.00000ml of S12078 + 1.00000ml of S12275 + 3.83300ml of E3791 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
413	80 ng BNA ICC, 80 PPM	SP6621	09/11/2024	02/08/2025	Jagrut Upadhyay	None	None	mohammad ahmed 09/11/2024

FROM 0.01000ml of S12314 + 0.20000ml of E3791 + 0.80000ml of SP6620 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
412	60 ng BNA ICC, 60 PPM	SP6622	09/11/2024	02/08/2025	Jagrut Upadhyay	None	None	mohammad ahmed 09/11/2024

FROM 0.01000ml of S12314 + 0.40000ml of E3791 + 0.60000ml of SP6620 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
411	50 ng BNA ICC, 50 PPM	SP6623	09/11/2024	02/08/2025	Jagrut Upadhyay	None	None	mohammad ahmed 09/11/2024

FROM 0.01000ml of S12314 + 0.50000ml of E3791 + 0.50000ml of SP6620 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
410	40 ng BNA ICC, 40 PPM	SP6624	09/11/2024	02/08/2025	Jagrut Upadhyay	None	None	mohammad ahmed 09/11/2024

FROM 0.01000ml of S12314 + 0.60000ml of E3791 + 0.40000ml of SP6620 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3678	20 ng BNA ICC, 20 PPM	SP6625	09/11/2024	02/08/2025	Jagrut Upadhyay	None	None	mohammad ahmed 09/11/2024

FROM 0.01000ml of S12314 + 0.80000ml of E3791 + 0.20000ml of SP6620 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
408	10 ng BNA ICC, 10 PPM	SP6626	09/11/2024	02/08/2025	Jagrut Upadhyay	None	None	mohammad ahmed 09/11/2024

FROM 0.01000ml of S12314 + 0.90000ml of E3791 + 0.10000ml of SP6620 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
407	5 ng BNA ICC, 5 PPM	SP6627	09/11/2024	02/08/2025	Jagrut Upadhyay	None	None	mohammad ahmed 09/11/2024

FROM 0.01000ml of S12314 + 0.95000ml of E3791 + 0.05000ml of SP6620 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
175	2.5 ng BNA ICC, 2.5 PPM	SP6628	09/11/2024	02/08/2025	Jagrut Upadhyay	None	None	mohammad ahmed 09/11/2024

FROM 0.01000ml of S12314 + 0.50000ml of E3791 + 0.50000ml of SP6627 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
171	8270/625 Spike Solution, 50/100 PPM	SP6630	09/13/2024	02/12/2025	Rahul Chavli	None	None	Yogesh Patel 10/29/2024

FROM 0.10000ml of S12134 + 0.10000ml of S12461 + 0.20000ml of S12453 + 0.30000ml of S11775 + 0.30000ml of S12510 + 0.40000ml of S10393 + 0.40000ml of S10583 + 0.40000ml of S11138 + 0.40000ml of S11141 + 0.40000ml of S11649 + 0.70000ml of S11771 + 0.70000ml of S12105 + 0.80000ml of S12126 + 1.10000ml of S12110 + 1.10000ml of S12133 + 1.10000ml of S12460 + 1.20000ml of S12455 + 1.20000ml of S12456 + 1.20000ml of S12457 + 1.20000ml of S12458 + 1.20000ml of S12459 + 1.20000ml of S12509 + 1.30000ml of S11541 + 1.30000ml of S11772 + 1.30000ml of S11773 + 1.30000ml of S12106 + 1.30000ml of S12108 + 1.30000ml of S12111 + 1.30000ml of S12127 + 1.30000ml of S12129 + 1.30000ml of S12130 + 1.30000ml of S12131 + 1.30000ml of S12454 + 1.40000ml of S11774 + 1.40000ml of S12107 + 1.40000ml of S12109 + 1.40000ml of S12128 + 1.40000ml of S12132 + 163.00000ml of E3788 = Final Quantity: 200.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6638	10/10/2024	04/04/2025	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024

FROM 1930.00000ml of E3815 + 5.00000ml of S10978 + 5.00000ml of S10979 + 5.00000ml of S10980 + 5.00000ml of S11004 + 5.00000ml of S11005 + 5.00000ml of S11006 + 5.00000ml of S11007 + 5.00000ml of S11008 + 5.00000ml of S11009 + 5.00000ml of S11010 + 5.00000ml of S12187 + 5.00000ml of S12188 + 5.00000ml of S12189 + 5.00000ml of S12207 = Final Quantity: 2000.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	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 #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/16/2024	05/16/2024 / Rajesh	04/26/2024 / Rajesh	E3743

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

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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

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)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3793

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)	24G2362009	03/17/2025	09/17/2024 / Rajesh	09/03/2024 / Rajesh	E3794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24I2662006	04/23/2025	10/24/2024 / Rajesh	10/24/2024 / Rajesh	E3822

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

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	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	03/13/2025	09/13/2024 / yogesh	05/18/2022 / Christian	S10393

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555868 / Custom Standard, Benzidine Std [CS 5328-1]	A0186373	02/12/2025	08/12/2024 / Rahul	07/05/2022 / Christian	S10583

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	98496 / 1,2,3,4-Tetrachlorobenzene, 5000 ug/mL, in MeCl2	042221	03/09/2025	09/09/2024 / Jagrut	08/23/2022 / Christian	S10711

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10978

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	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10980

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	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	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11004

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11005

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11006

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11007

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11008

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11010

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	03/11/2025	09/11/2024 / Rahul	02/07/2023 / Christian	S11085

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	03/11/2025	09/11/2024 / Rahul	02/07/2023 / Christian	S11098

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	02/12/2025	08/12/2024 / Rahul	02/20/2023 / Christian	S11138

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0194702	02/12/2025	08/12/2024 / Rahul	02/20/2023 / Christian	S11141

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	03/11/2025	09/11/2024 / Rahul	03/06/2023 / Christian	S11159

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30409 / Pyridine, 2000 PPM in P & T Methanol	A0196693	12/25/2024	06/25/2024 / Jagrut	08/31/2023 / Yogesh	S11532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30409 / Pyridine, 2000 PPM in P & T Methanol	A0196693	02/01/2025	08/01/2024 / anahy	08/31/2023 / Yogesh	S11533

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	03/13/2025	09/13/2024 / yogesh	09/18/2023 / Kiran	S11541

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	S11566

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31902 / CLP/SVOA Additions Mix (Atrazine, Benzaldehyde, Caprolactam) 1000ug/mL	A0200496	02/01/2025	08/01/2024 / anahy	09/25/2023 / Kiran	S11602

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	03/13/2025	09/13/2024 / anahy	11/09/2023 / Yogesh	S11649

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31900 / SOM01.1 Mega Mix, 500-1000 ug/ml	A0204128	12/25/2024	06/25/2024 / Jagrut	11/13/2023 / Rahul	S11670

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	31900 / SOM01.1 Mega Mix, 500-1000 ug/ml	A0204128	02/01/2025	08/01/2024 / anahy	11/13/2023 / Rahul	S11671

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30614 / 1,4-Dioxane-D8 Standard	A0203488	02/01/2025	08/01/2024 / anahy	11/20/2023 / Rahul	S11699

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30614 / 1,4-Dioxane-D8 Standard	A0203488	02/28/2025	08/29/2024 / Jagrut	11/20/2023 / Rahul	S11700

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	12/14/2024	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	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	01/12/2025	07/12/2024 / Rahul	11/21/2023 / Rahul	S11767

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	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	03/13/2025	09/13/2024 / anahy	11/21/2023 / Rahul	S11772

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	03/13/2025	09/13/2024 / anahy	11/21/2023 / Rahul	S11773

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	03/13/2025	09/13/2024 / anahy	11/21/2023 / Rahul	S11774

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	03/13/2025	09/13/2024 / anahy	11/21/2023 / Rahul	S11775

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

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	31046 / Pyridine-d5, Solvent Methylene Chloride, 2000 ug/L	A0205496	01/25/2025	07/25/2024 / Jagrut	12/21/2023 / Rahul	S11997

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31046 / Pyridine-d5, Solvent Methylene Chloride, 2000 ug/L	A0205496	03/09/2025	09/09/2024 / Jagrut	12/21/2023 / Rahul	S12004

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	02/01/2025	08/01/2024 / Rahul	12/21/2023 / Rahul	S12037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	98495 / Pentachlorobenzene, 5000 ug/mL, in MeCl2	111722	12/14/2024	06/14/2024 / Rahul	01/03/2024 / Rahul	S12073

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	03/11/2025	09/11/2024 / Rahul	01/31/2024 / Rahul	S12078

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	98495 / Pentachlorobenzene, 5000 ug/mL, in MeCl2	111722	02/01/2025	08/01/2024 / anahy	02/09/2024 / Rahul	S12080

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	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 #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

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	03/13/2025	09/13/2024 / anahy	02/05/2024 / Rahul	S12106

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	03/13/2025	09/13/2024 / anahy	02/05/2024 / Rahul	S12107

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	03/13/2025	09/13/2024 / anahy	02/05/2024 / Rahul	S12108

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	03/13/2025	09/13/2024 / anahy	02/05/2024 / Rahul	S12109

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	03/13/2025	09/13/2024 / anahy	02/05/2024 / Rahul	S12110

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	03/13/2025	09/13/2024 / anahy	02/05/2024 / Rahul	S12111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

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	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	03/13/2025	09/13/2024 / anahy	03/15/2024 / Rahul	S12127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	03/13/2025	09/13/2024 / anahy	03/15/2024 / Rahul	S12128

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	03/13/2025	09/13/2024 / anahy	03/15/2024 / Rahul	S12129

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	03/13/2025	09/13/2024 / anahy	03/15/2024 / Rahul	S12130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	03/13/2025	09/13/2024 / anahy	03/15/2024 / Rahul	S12131

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	03/13/2025	09/13/2024 / anahy	03/15/2024 / Rahul	S12132

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	03/13/2025	09/13/2024 / anahy	03/15/2024 / Rahul	S12133

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	03/13/2025	09/13/2024 / anahy	03/15/2024 / Rahul	S12134

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12187

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12188

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	90494 / 1-Methylnaphthalene, 2000 ug/mL, in methylene chloride	060822	02/01/2025	08/01/2024 / anahy	04/11/2024 / Rahul	S12236

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	98496 / 1,2,3,4-Tetrachlorobenzene, 5000 ug/mL, in MeCl2	040524	12/14/2024	06/14/2024 / Rahul	04/11/2024 / Rahul	S12237

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	98496 / 1,2,3,4-Tetrachlorobenzene, 5000 ug/mL, in MeCl2	040524	02/01/2025	08/01/2024 / anahy	04/11/2024 / Rahul	S12238

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	03/11/2025	09/11/2024 / Rahul	05/24/2024 / Rahul	S12275

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	02/26/2025	08/26/2024 / anahy	05/30/2024 / Rahul	S12312

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	03/04/2025	09/04/2024 / anahy	05/30/2024 / Rahul	S12314

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	04/23/2025	10/23/2024 / anahy	05/30/2024 / Rahul	S12323

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	04/30/2025	10/30/2024 / anahy	05/30/2024 / Rahul	S12324

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/06/2025	11/06/2024 / anahy	05/30/2024 / Rahul	S12326

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/12/2025	11/12/2024 / anahy	05/30/2024 / Rahul	S12327

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31810 / SV Mix, OLC 03.2 SVOA Deuterated Monitoring Compounds, 1mL, 2000ug/mL, CH2Cl2	A0206801	01/25/2025	07/25/2024 / Jagrut	05/30/2024 / Rahul	S12375

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	31810 / SV Mix, OLC 03.2 SVOA Deuterated Monitoring Compounds, 1mL, 2000ug/mL, CH2Cl2	A0206801	02/21/2025	08/21/2024 / Jagrut	05/30/2024 / Rahul	S12378

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12454

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12455

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12456

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12457

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12458

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12459

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12461

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12509

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12510

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	A0158185	01/05/2025	07/05/2024 / Jagrut	01/26/2021 / Christian	S9068

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	98495 / Pentachlorobenzene, 5000 ug/mL, in MeCl2	072820	01/10/2025	07/10/2024 / Jagrut	10/18/2021 / Christian	S9934

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 98496
Lot Number: 042221
Description: 1,2,3,4-Tetrachlorobenzene

Solvent(s): Methylene chloride **Lot#** 105345

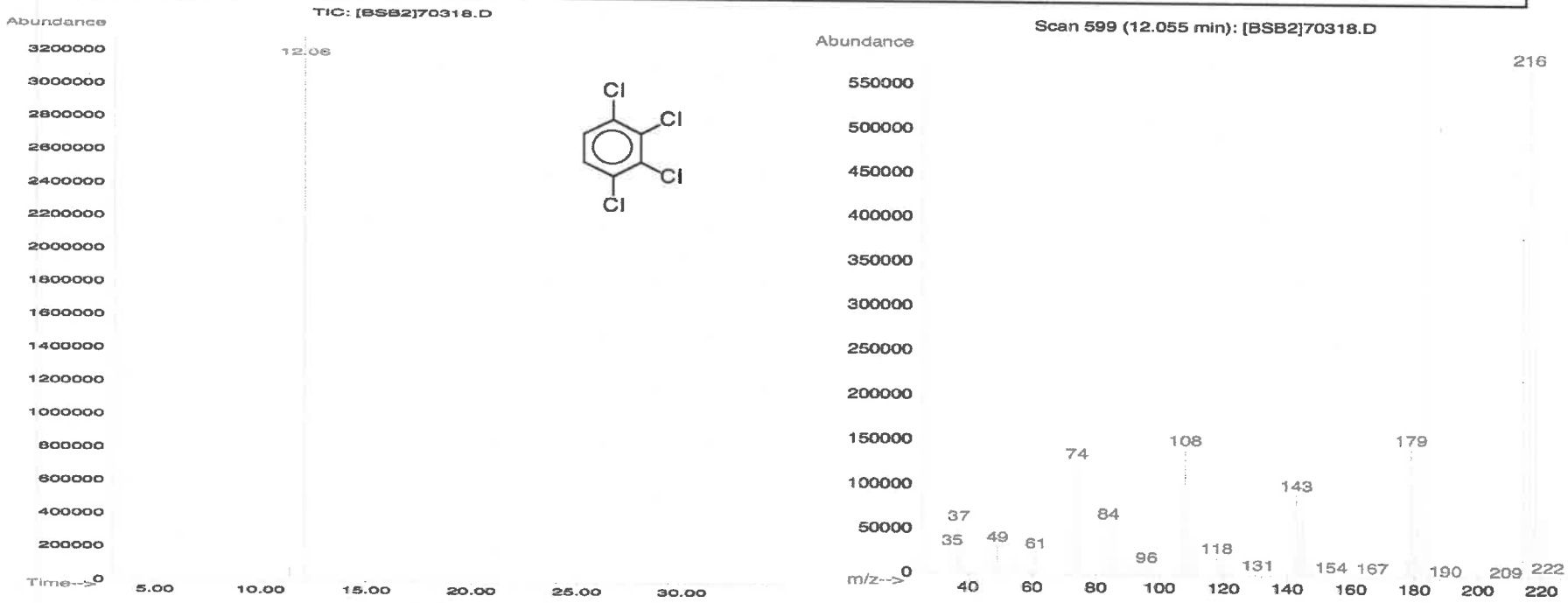
Expiration Date: 042226
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 20.0 5E-05 Balance Uncertainty 0.058 Flask Uncertainty

Formulated By: Prashant Chauhan	042221 DATE
Reviewed By: Pedro L. Rentas	042221 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,2,3,4-Tetrachlorobenzene	318	FBW01	5000	97.3	0.2	0.10292	0.10300	5003.7	36.0	634-66-2	N/A	orl-rat 1167mg/kg

Method GC8MSD-3.M: Column: (30m X 0.25mm ID X 0.25µm film thickness), Temp 1 = 50°C (1min.), Temp 2 = 300°C (4 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C. Analysis performed by Nicole Poisson.



Received on 08/23/22 by CG S10708 to S10712

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 98495
Lot Number: 072820
Description: Pentachlorobenzene

Expiration Date: 072825
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 23060

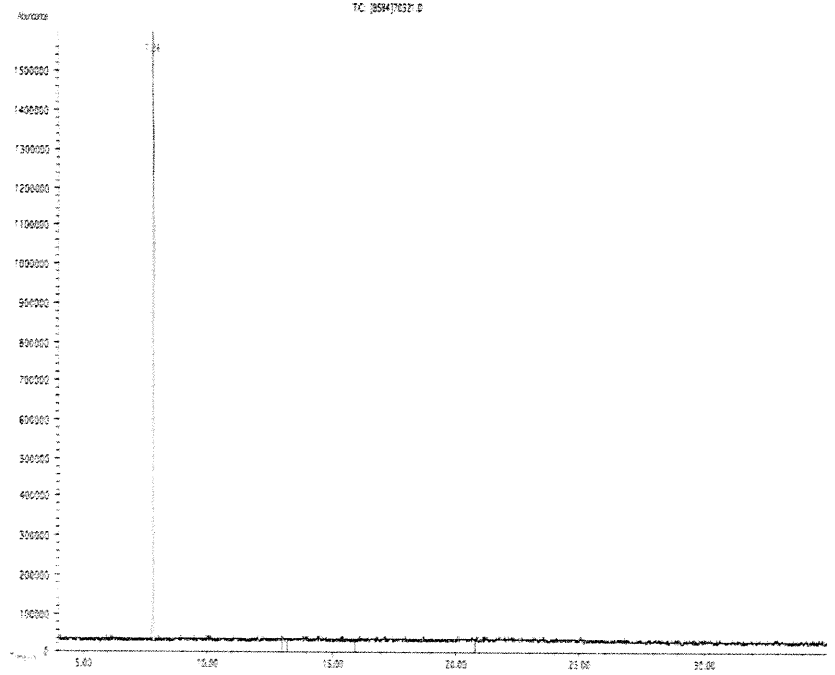
Solvent(s): **Lot#**
Methylene chloride 104929

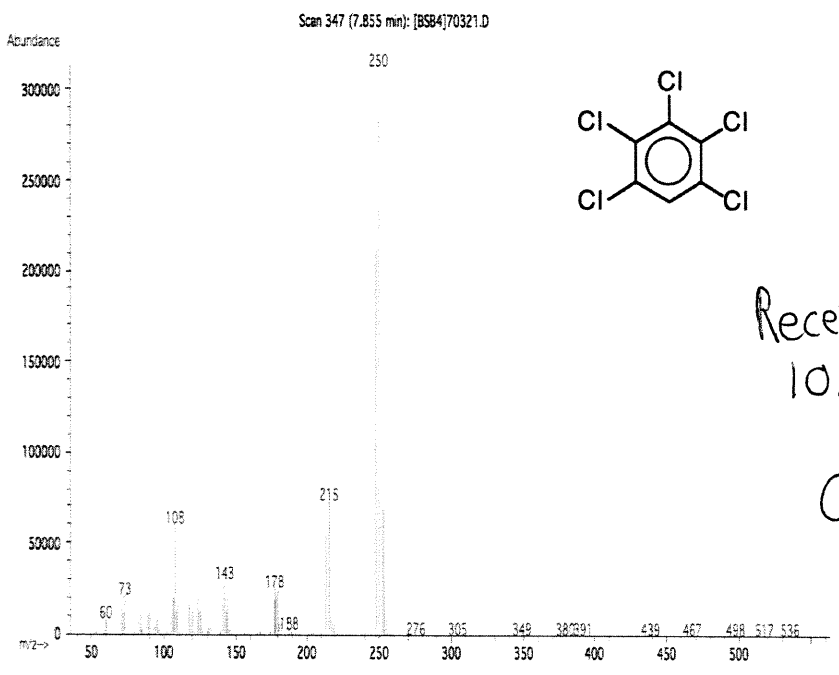
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0 0.001 Flask Uncertainty

	072820
Formulated By: Benson Chan	DATE
	072820
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Pentachlorobenzene	321	2705100	5000	99.5	0.5	0.12561	0.12566	5001.9	50.4	608-93-5	N/A	orl-rat 1080mg/kg

Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.





Received on
10/18/21
by
CG
S9931
to
S9935

- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

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. : 31902 **Lot No.:** A0200496

Description : Additions Standard

Additions Standard 1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

K.S 09/25/23

S11599 1

S11603

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzaldehyde	100-52-7	RD230209RSRA	99%	1,001.0 µg/mL	+/- 29.4243
2	epsilon-Caprolactam	105-60-2	I16X016	99%	1,001.0 µg/mL	+/- 29.4243
3	Atrazine	1912-24-9	5FYWL	99%	1,002.0 µg/mL	+/- 29.4537

* 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.)

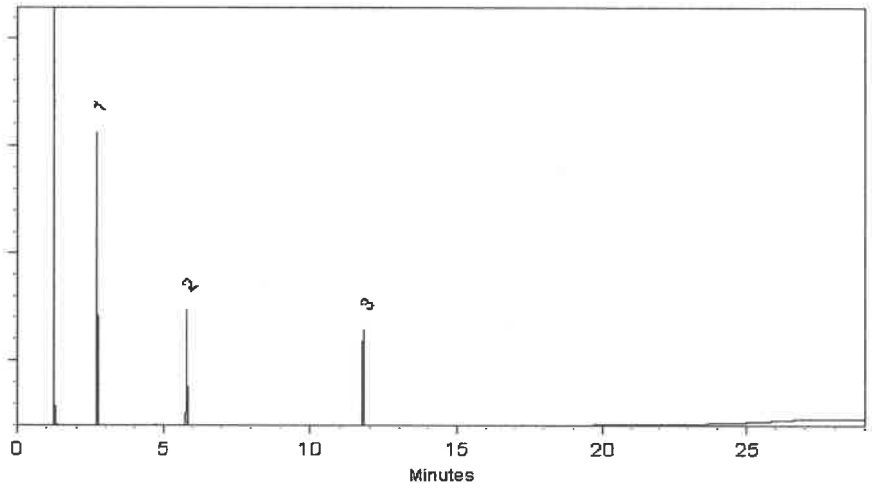
Inj. Temp:
250°C

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.

Laith Clemente - Operations Technician I

Date Mixed: 01-Aug-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Aug-2023

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-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG

S11084
to
S11088

*Not a certified value

Certified By: _____
Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110817-01	414125	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Received on 02/07/23 by CG

~~S11088~~ S11096 to S11099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 495831 **Expiration Date:** 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 01/26/21 by CG S9064 to S9093

Catalog No. : 31853 **Lot No.:** A0158185

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,000.8 µg/mL	+/- 11.7418	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBL3022)		+/- 42.8671	µg/mL	Unstressed
	Purity 99%		+/- 44.1116	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

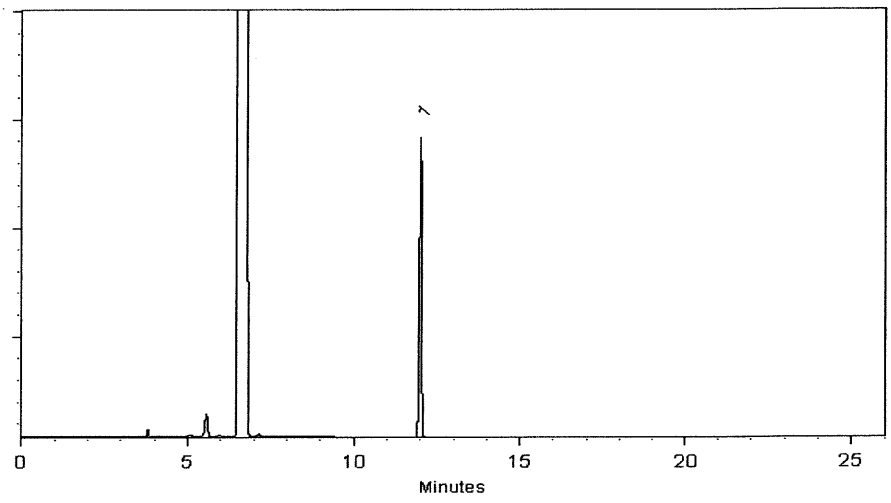
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Clara Windle - Operations Technician I

Date Mixed: 25-Feb-2020 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Feb-2020

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 on 03/08/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol **CAS #** 87-86-5 (Lot 211229RSR) **Purity** 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

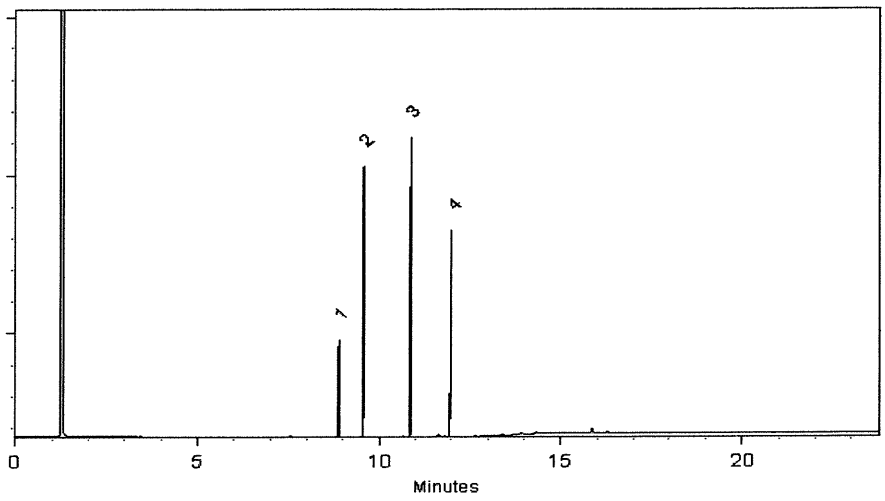
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 05/19/22

S10393 to S10402

Catalog No. : 555871 **Lot No.:** A0185300

Description : Custom 4-Nitrophenol Standard

Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	4-Nitrophenol	25,060.0 µg/mL	+/- 231.9100 µg/mL	Gravimetric
	CAS # 100-02-7 (Lot MKCN1089)		+/- 753.2622 µg/mL	Unstressed
	Purity 99%		+/- 905.6020 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Katelyn McGinnis - Operations Tech I

Date Mixed: 16-May-2022 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by
CG
on
07/05/22
S 10583
to
S 10592

Catalog No. : 555868 **Lot No.:** A0186373

Description : Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzidine	25,200.0 µg/mL	+/- 233.2055 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 220511RSR)		+/- 351.6606 µg/mL	Unstressed
	Purity 99%		+/- 512.6054 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 16-Jun-2022 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

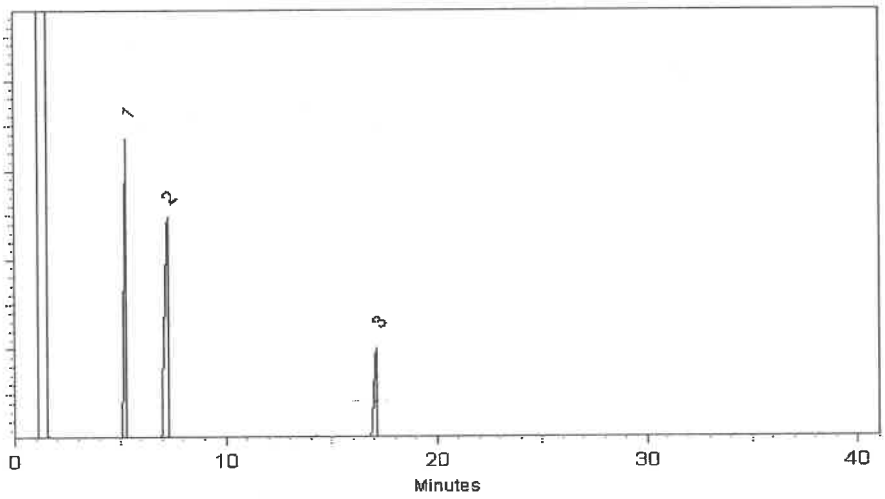
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

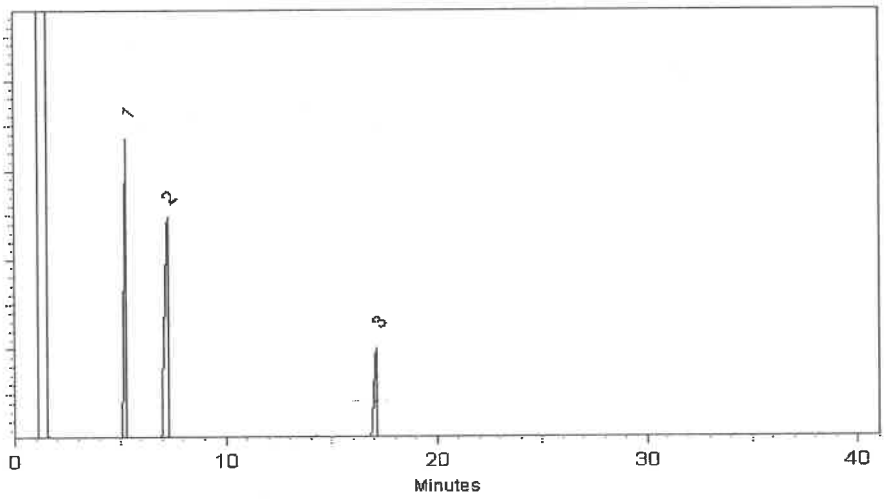
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

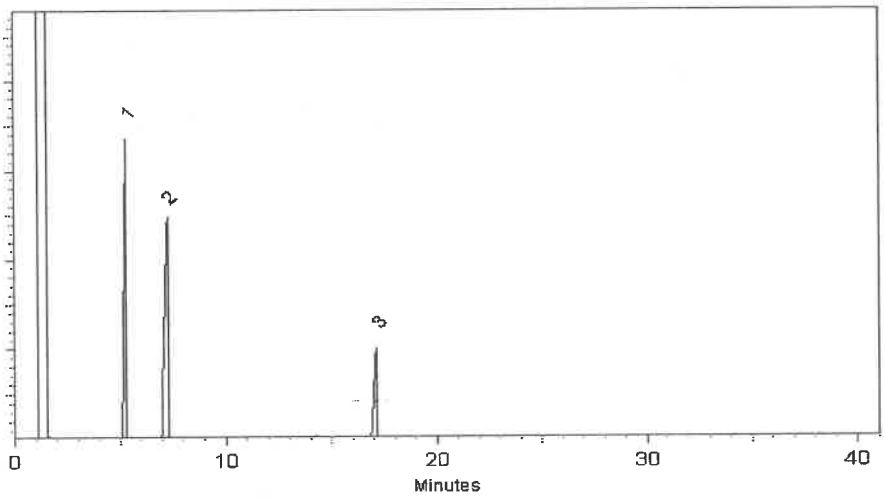
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

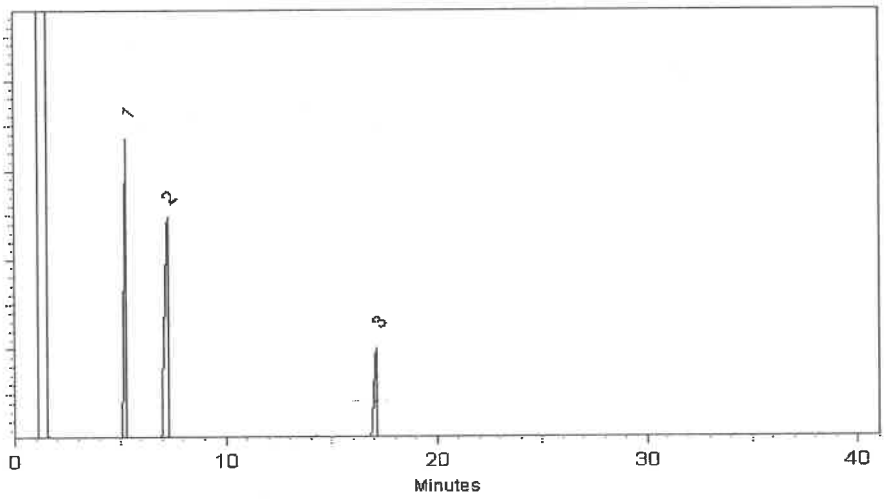
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

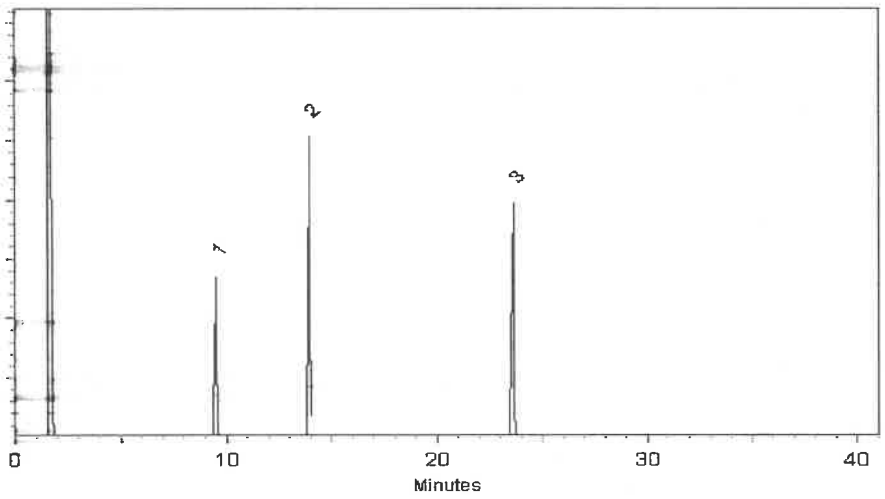
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

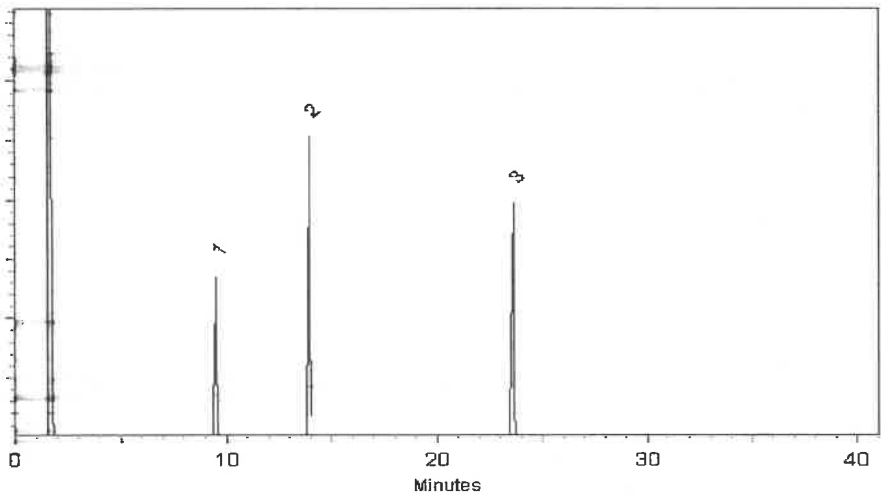
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

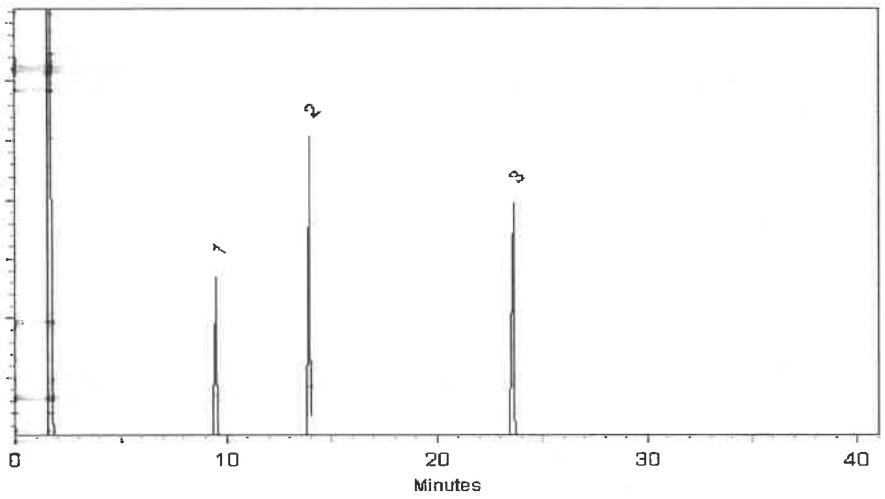
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

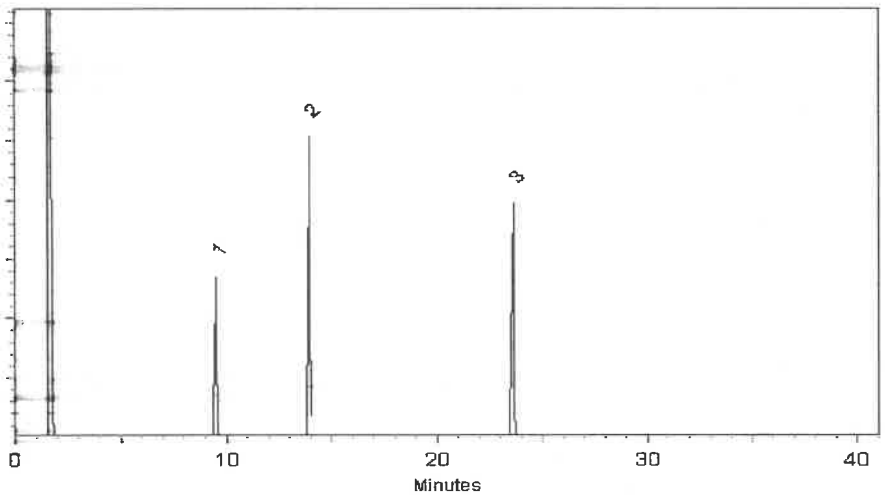
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

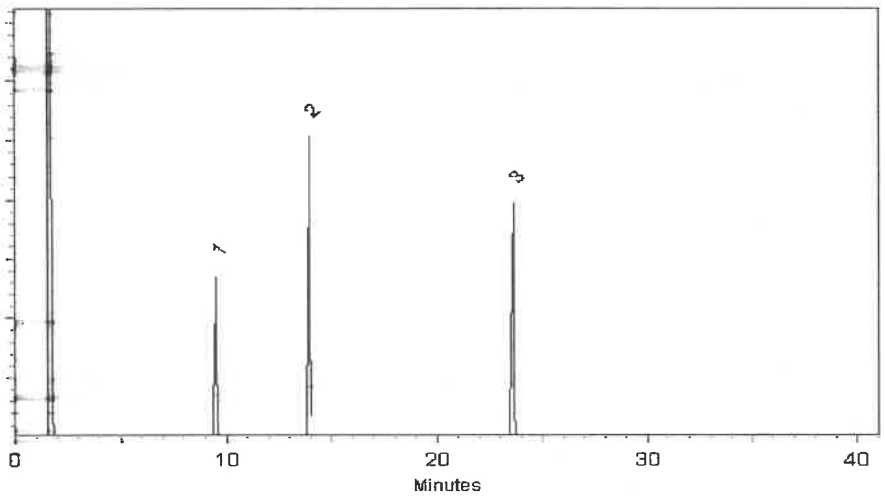
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

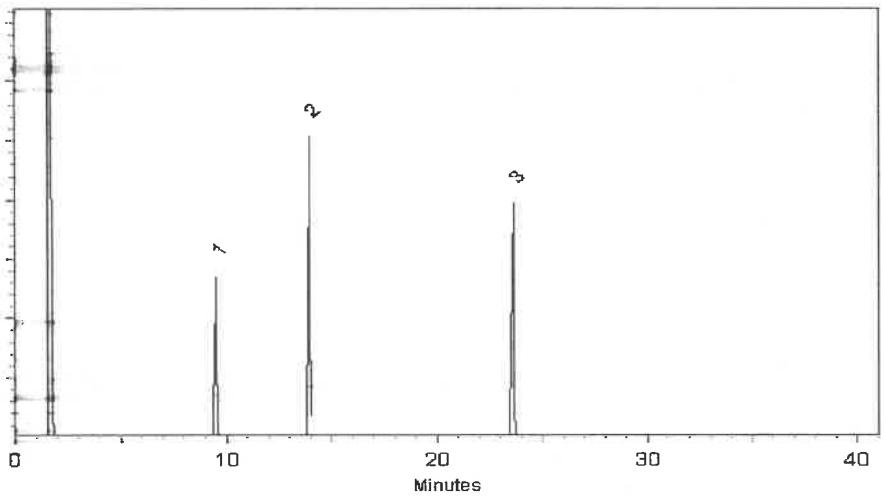
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

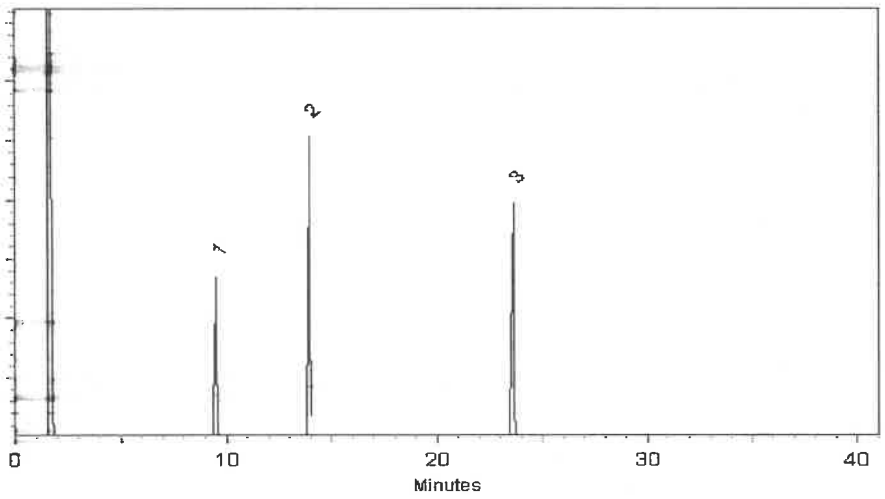
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

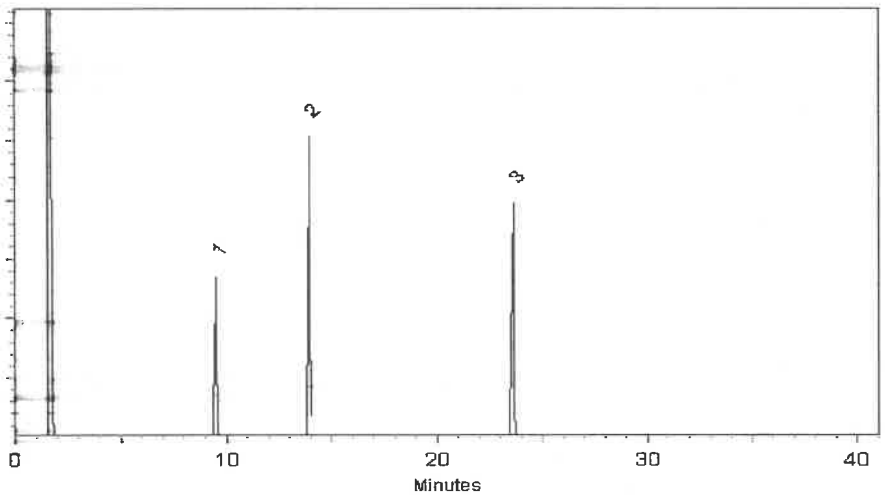
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555870 **Lot No.:** A0194698

Description : Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	2,4-Dinitrophenol	51-28-5	DR221221RSR	99%	25,195.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek's Registered Quality Certificate #FM 8

tified Reference Material Notes

:es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

ıty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ɜnded condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

ıds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the ɔmpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

ɜrtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ıty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ıty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

ɜrage factor of 2, which gives a level of confidence of approximately 95%.

ıged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure inimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily Γ traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ɳ, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ɟards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ɜm. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, ıdes complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555869 **Lot No.:** A0194702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	Hexachlorocyclopentadiene	77-47-4	0012019	99%	25,008.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek Registered Quality Certificate #FM

tified Reference Material Notes

:es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.B

Material No.: 926
Batch No.: 24C01E
Manufactured Date: 2024-C
Expiration Date: 2025-C
Revision I

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 3743

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

PO: 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

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 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 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

PO: PO2-76 PRODUCT CODE: SHIP DATE: 9/3/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.5	0.1
Water (H_2O)	≤ 0.5 %	0.1 %
Solubility in H_2O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities - Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities - Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities - Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	7.9 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	8 par/ml
Particle Count - 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales
Sr. Manager, Quality Assurance

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3815

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 2412662006
Manufactured Date: 2024-08-29
Expiration Date:2025-11-28
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3822

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 30409 **Lot No.:** A0196693

Description : Pyridine Standard

Pyridine 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

S11529
↓
S11538
Y.P. 08/3/23

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%	2,012.0 µg/mL	+/- 32.9613

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

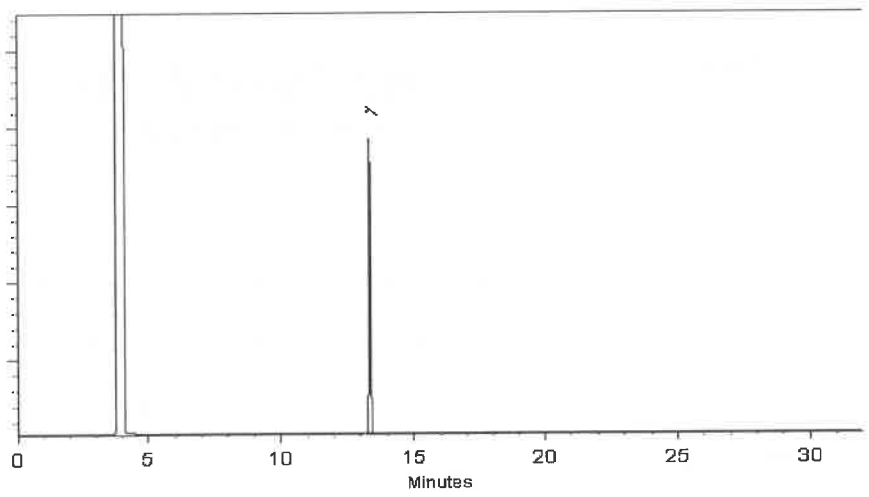
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 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.

Daniel Wasson - Operations Tech I **Date Mixed:** 05-Apr-2023 **Balance Serial #** 1128342314

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 12-Apr-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. : 30409 **Lot No.:** A0196693

Description : Pyridine Standard

Pyridine 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

S11529
↓
S11538
Y.P. 08/3/23

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%	2,012.0 µg/mL	+/- 32.9613

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

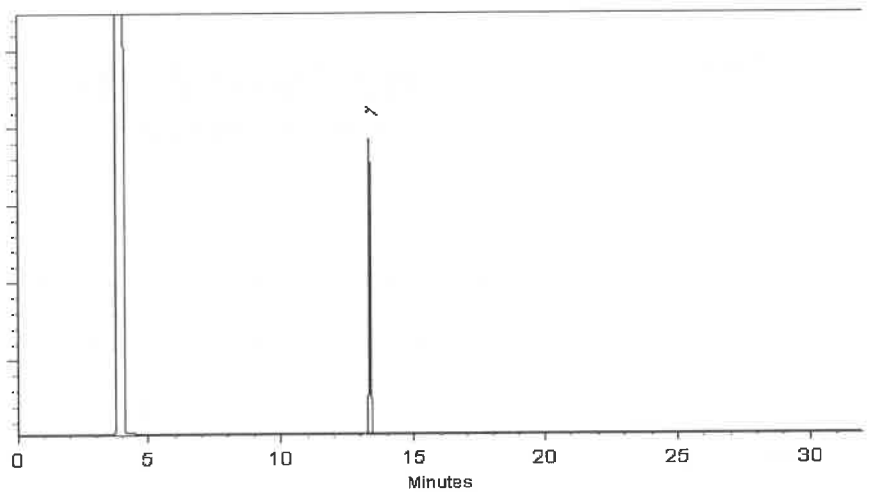
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 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.

Daniel Wasson - Operations Tech I **Date Mixed:** 05-Apr-2023 **Balance Serial #** 1128342314

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 12-Apr-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

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01
ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

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

511539 ↓ 511568 Y.P. 091 191

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 - 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 A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01
ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

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

511539 ↓ 511568 Y.P. 091 191

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 - 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 A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01
ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

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

511539 ↓ 511568 Y.P. 091 191

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 - 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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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. : 31900 **Lot No.:** A0204128

S11669 ↓ S11688 RC 11/15/23

Description : OLM 01.1 Revised SV MegaMix

OLM 01.1 Revised SV MegaMix 500-1000 µg/mL, Methylene chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 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	Phenol	108-95-2	MKCK1120	99%	1,005.8 µg/mL	+/- 18.8928
2	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,001.0 µg/mL	+/- 18.8034
3	2-Chlorophenol	95-57-8	STBJ3909	99%	1,002.8 µg/mL	+/- 18.8365
4	2,2'-oxybis(1-chloropropane)	108-60-1	230714JLM	99%	1,001.2 µg/mL	+/- 18.8064
5	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,007.3 µg/mL	+/- 18.9210
6	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 18.5897
7	Hexachloroethane	67-72-1	QTORH	99%	1,000.8 µg/mL	+/- 18.7991
8	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,003.2 µg/mL	+/- 18.8449
9	4-Methylphenol (p-cresol)	106-44-5	SHBN1151	99%	503.6 µg/mL	+/- 9.4605
10	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.4 µg/mL	+/- 9.4746
11	Nitrobenzene	98-95-3	10224044	99%	1,001.1 µg/mL	+/- 18.8045
12	Isophorone	78-59-1	MKCC9506	99%	1,000.7 µg/mL	+/- 18.7982
13	2-Nitrophenol	88-75-5	RP230509C	99%	1,004.4 µg/mL	+/- 18.8670
14	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,005.0 µg/mL	+/- 18.8787
15	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,001.2 µg/mL	+/- 18.8071
16	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,007.0 µg/mL	+/- 18.9163

17	Naphthalene	91-20-3	STBL1057	99%	1,000.7	µg/mL	+/- 18.7975
18	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 18.8675
19	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,001.6	µg/mL	+/- 18.8143
20	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,002.1	µg/mL	+/- 18.8242
21	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,000.3	µg/mL	+/- 18.7895
22	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCS1444	99%	1,003.7	µg/mL	+/- 18.8543
23	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,000.6	µg/mL	+/- 18.7965
24	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,002.1	µg/mL	+/- 18.8247
25	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,003.0	µg/mL	+/- 18.8417
26	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,000.7	µg/mL	+/- 18.7975
27	Biphenyl	92-52-4	MKCL6515	99%	1,003.0	µg/mL	+/- 18.5712
28	2-Nitroaniline	88-74-4	RP230531	99%	1,003.4	µg/mL	+/- 18.8487
29	Acenaphthylene	208-96-8	p06V	98%	1,000.7	µg/mL	+/- 18.7980
30	Dimethylphthalate	131-11-3	10117699	99%	1,000.9	µg/mL	+/- 18.8010
31	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,000.6	µg/mL	+/- 18.7963
32	Acenaphthene	83-32-9	MKCR7169	99%	1,000.7	µg/mL	+/- 18.7975
33	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,002.7	µg/mL	+/- 18.8355
34	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.4	µg/mL	+/- 18.8294
35	Dibenzofuran	132-64-9	MKCD9952	99%	1,003.0	µg/mL	+/- 18.5712
36	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,000.8	µg/mL	+/- 18.7991
37	4-Nitrophenol	100-02-7	RP230511A	99%	1,007.3	µg/mL	+/- 18.9210
38	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,004.3	µg/mL	+/- 18.8646
39	Fluorene	86-73-7	10241100	99%	1,000.7	µg/mL	+/- 18.7987
40	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,000.6	µg/mL	+/- 18.7961
41	Diethylphthalate	84-66-2	BCCD3396	99%	1,001.0	µg/mL	+/- 18.8034
42	4-Nitroaniline	100-01-6	RP230111	99%	1,002.5	µg/mL	+/- 18.8318
43	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230505JLM	99%	1,000.8	µg/mL	+/- 18.7989
44	Diphenylamine	122-39-4	MKCT1512	99%	1,002.5	µg/mL	+/- 18.8308
45	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,000.7	µg/mL	+/- 18.7970
46	Hexachlorobenzene	118-74-1	14652300	99%	1,000.5	µg/mL	+/- 18.7935
47	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,002.8	µg/mL	+/- 18.8365
48	Phenanthrene	85-01-8	MKCQ8876	99%	1,000.6	µg/mL	+/- 18.7958
49	Anthracene	120-12-7	MKCR0570	99%	1,000.7	µg/mL	+/- 18.7987
50	Carbazole	86-74-8	14095100	99%	1,003.3	µg/mL	+/- 18.8468
51	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,000.8	µg/mL	+/- 18.7991
52	Fluoranthene	206-44-0	MKCQ4728	99%	1,000.4	µg/mL	+/- 18.7926

53	Pyrene	129-00-0	BCCG8479	98%	1,000.7 µg/mL	+/- 18.7987
54	Benzyl butyl phthalate	85-68-7	X121018	99%	1,000.6 µg/mL	+/- 18.7951
55	Benz(a)anthracene	56-55-3	I20012022BAA	99%	1,000.6 µg/mL	+/- 18.7961
56	Chrysene	218-01-9	RP230601	99%	1,000.6 µg/mL	+/- 18.7958
57	3,3'-Dichlorobenzidine	91-94-1	S231019RSR	99%	1,003.2 µg/mL	+/- 18.8440
58	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,000.5 µg/mL	+/- 18.7947
59	Di-n-octyl phthalate	117-84-0	14382700	99%	1,001.0 µg/mL	+/- 18.8036
60	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,000.7 µg/mL	+/- 18.7975
61	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,000.6 µg/mL	+/- 18.7958
62	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,000.6 µg/mL	+/- 18.7968
63	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.3 µg/mL	+/- 18.8089
64	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,000.6 µg/mL	+/- 18.7963
65	Benzo(g,h,i)perylene	191-24-2	RP230511B	98%	1,000.5 µg/mL	+/- 18.7934

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

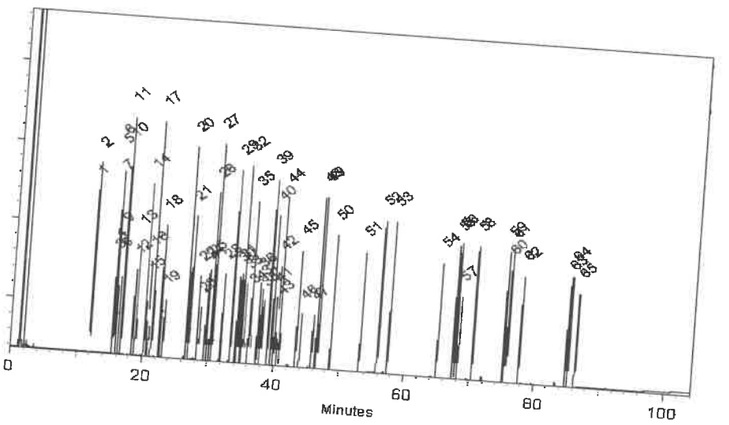
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID

Split Vent:
Ratio 50:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 08-Nov-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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31900 **Lot No.:** A0204128

S11669 ↓ S11688 RC 11/15/23

Description : OLM 01.1 Revised SV MegaMix

OLM 01.1 Revised SV MegaMix 500-1000 µg/mL, Methylene chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 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	Phenol	108-95-2	MKCK1120	99%	1,005.8 µg/mL	+/- 18.8928
2	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,001.0 µg/mL	+/- 18.8034
3	2-Chlorophenol	95-57-8	STBJ3909	99%	1,002.8 µg/mL	+/- 18.8365
4	2,2'-oxybis(1-chloropropane)	108-60-1	230714JLM	99%	1,001.2 µg/mL	+/- 18.8064
5	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,007.3 µg/mL	+/- 18.9210
6	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 18.5897
7	Hexachloroethane	67-72-1	QTORH	99%	1,000.8 µg/mL	+/- 18.7991
8	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,003.2 µg/mL	+/- 18.8449
9	4-Methylphenol (p-cresol)	106-44-5	SHBN1151	99%	503.6 µg/mL	+/- 9.4605
10	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.4 µg/mL	+/- 9.4746
11	Nitrobenzene	98-95-3	10224044	99%	1,001.1 µg/mL	+/- 18.8045
12	Isophorone	78-59-1	MKCC9506	99%	1,000.7 µg/mL	+/- 18.7982
13	2-Nitrophenol	88-75-5	RP230509C	99%	1,004.4 µg/mL	+/- 18.8670
14	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,005.0 µg/mL	+/- 18.8787
15	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,001.2 µg/mL	+/- 18.8071
16	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,007.0 µg/mL	+/- 18.9163

17	Naphthalene	91-20-3	STBL1057	99%	1,000.7	µg/mL	+/- 18.7975
18	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 18.8675
19	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,001.6	µg/mL	+/- 18.8143
20	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,002.1	µg/mL	+/- 18.8242
21	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,000.3	µg/mL	+/- 18.7895
22	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCS1444	99%	1,003.7	µg/mL	+/- 18.8543
23	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,000.6	µg/mL	+/- 18.7965
24	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,002.1	µg/mL	+/- 18.8247
25	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,003.0	µg/mL	+/- 18.8417
26	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,000.7	µg/mL	+/- 18.7975
27	Biphenyl	92-52-4	MKCL6515	99%	1,003.0	µg/mL	+/- 18.5712
28	2-Nitroaniline	88-74-4	RP230531	99%	1,003.4	µg/mL	+/- 18.8487
29	Acenaphthylene	208-96-8	p06V	98%	1,000.7	µg/mL	+/- 18.7980
30	Dimethylphthalate	131-11-3	10117699	99%	1,000.9	µg/mL	+/- 18.8010
31	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,000.6	µg/mL	+/- 18.7963
32	Acenaphthene	83-32-9	MKCR7169	99%	1,000.7	µg/mL	+/- 18.7975
33	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,002.7	µg/mL	+/- 18.8355
34	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.4	µg/mL	+/- 18.8294
35	Dibenzofuran	132-64-9	MKCD9952	99%	1,003.0	µg/mL	+/- 18.5712
36	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,000.8	µg/mL	+/- 18.7991
37	4-Nitrophenol	100-02-7	RP230511A	99%	1,007.3	µg/mL	+/- 18.9210
38	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,004.3	µg/mL	+/- 18.8646
39	Fluorene	86-73-7	10241100	99%	1,000.7	µg/mL	+/- 18.7987
40	4-Chlorophenyl phenyl ether	7005-72-3	MKCQ0984	99%	1,000.6	µg/mL	+/- 18.7961
41	Diethylphthalate	84-66-2	BCCD3396	99%	1,001.0	µg/mL	+/- 18.8034
42	4-Nitroaniline	100-01-6	RP230111	99%	1,002.5	µg/mL	+/- 18.8318
43	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230505JLM	99%	1,000.8	µg/mL	+/- 18.7989
44	Diphenylamine	122-39-4	MKCT1512	99%	1,002.5	µg/mL	+/- 18.8308
45	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,000.7	µg/mL	+/- 18.7970
46	Hexachlorobenzene	118-74-1	14652300	99%	1,000.5	µg/mL	+/- 18.7935
47	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,002.8	µg/mL	+/- 18.8365
48	Phenanthrene	85-01-8	MKCQ8876	99%	1,000.6	µg/mL	+/- 18.7958
49	Anthracene	120-12-7	MKCR0570	99%	1,000.7	µg/mL	+/- 18.7987
50	Carbazole	86-74-8	14095100	99%	1,003.3	µg/mL	+/- 18.8468
51	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,000.8	µg/mL	+/- 18.7991
52	Fluoranthene	206-44-0	MKCQ4728	99%	1,000.4	µg/mL	+/- 18.7926

53	Pyrene	129-00-0	BCCG8479	98%	1,000.7 µg/mL	+/- 18.7987
54	Benzyl butyl phthalate	85-68-7	X121018	99%	1,000.6 µg/mL	+/- 18.7951
55	Benz(a)anthracene	56-55-3	I20012022BAA	99%	1,000.6 µg/mL	+/- 18.7961
56	Chrysene	218-01-9	RP230601	99%	1,000.6 µg/mL	+/- 18.7958
57	3,3'-Dichlorobenzidine	91-94-1	S231019RSR	99%	1,003.2 µg/mL	+/- 18.8440
58	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,000.5 µg/mL	+/- 18.7947
59	Di-n-octyl phthalate	117-84-0	14382700	99%	1,001.0 µg/mL	+/- 18.8036
60	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,000.7 µg/mL	+/- 18.7975
61	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,000.6 µg/mL	+/- 18.7958
62	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,000.6 µg/mL	+/- 18.7968
63	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.3 µg/mL	+/- 18.8089
64	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	1,000.6 µg/mL	+/- 18.7963
65	Benzo(g,h,i)perylene	191-24-2	RP230511B	98%	1,000.5 µg/mL	+/- 18.7934

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

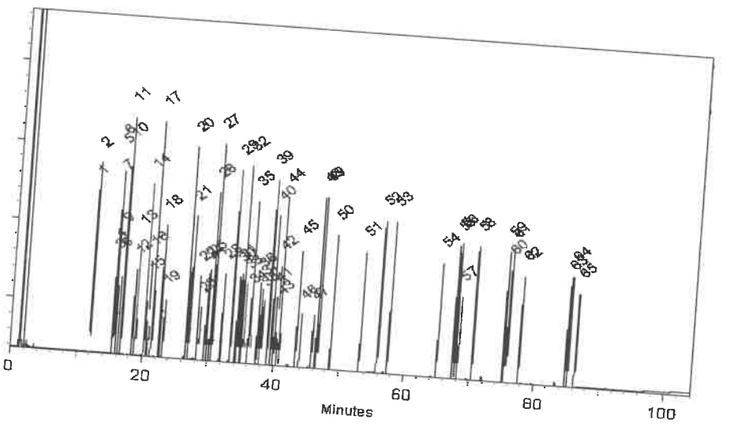
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID

Split Vent:
Ratio 50:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 08-Nov-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

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. : 30614 **Lot No.:** A0203488

S11689 ↓ S11706 RC 11/21/23

Description : 1,4-dioxane-d8 Standard

1,4-dioxane-d8 Standard 2000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2026 **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-d8	17647-74-4	RP230605	99%	2,001.2 µg/mL	+/- 24.9053

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

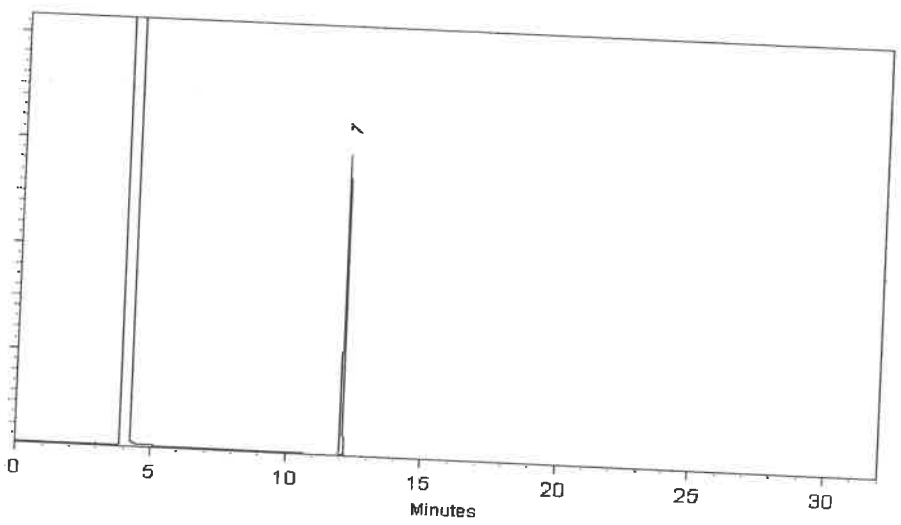
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 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.

Michael Maye - Operations Tech I

Date Mixed: 23-Oct-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Oct-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. : 30614 **Lot No.:** A0203488

S11689 ↓ S11706 RC 11/21/23

Description : 1,4-dioxane-d8 Standard

1,4-dioxane-d8 Standard 2000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2026 **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-d8	17647-74-4	RP230605	99%	2,001.2 µg/mL	+/- 24.9053

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

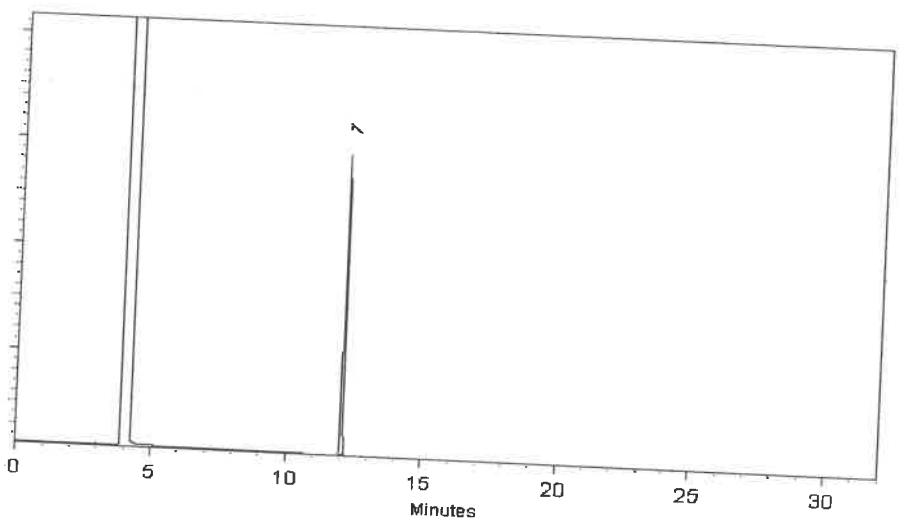
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 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.

Michael Maye - Operations Tech I

Date Mixed: 23-Oct-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Oct-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

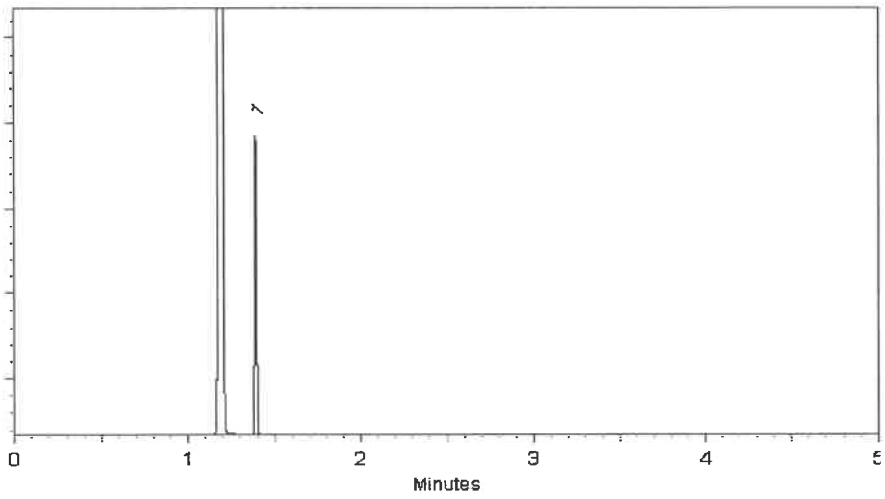
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

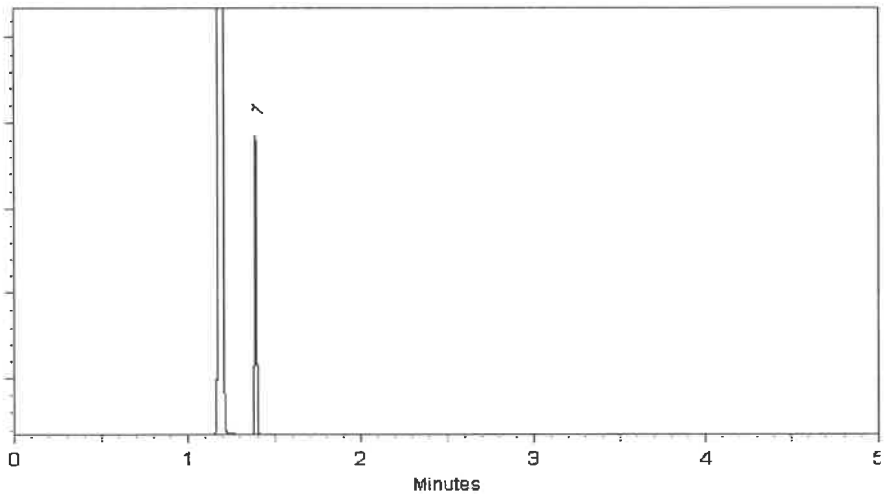
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

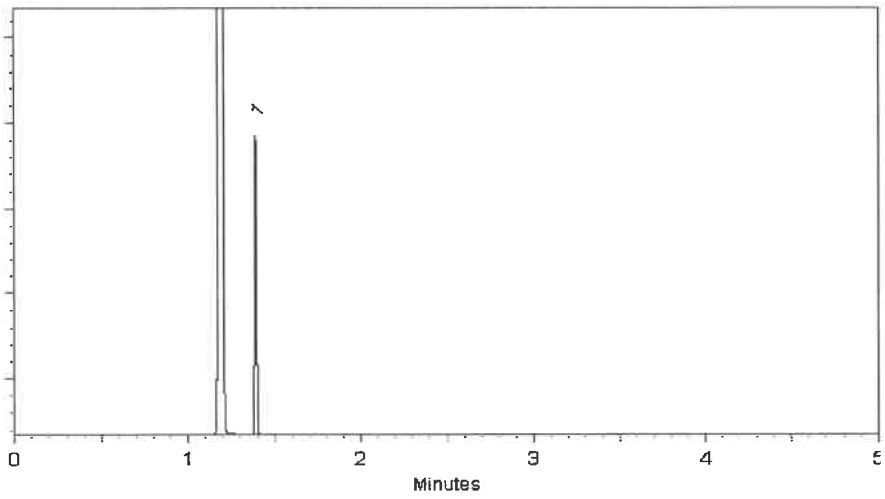
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

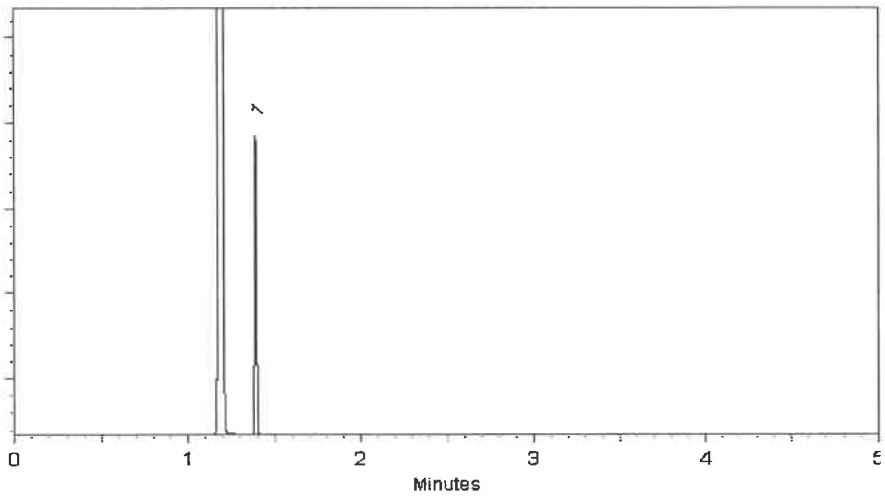
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

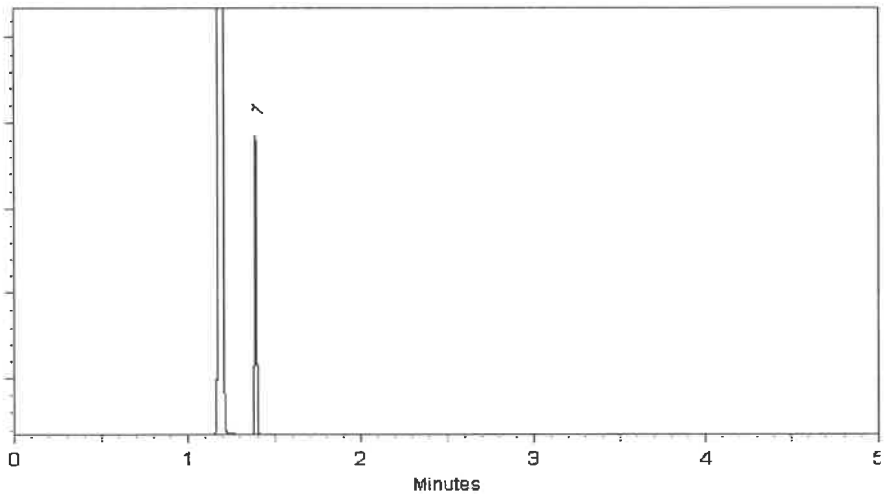
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

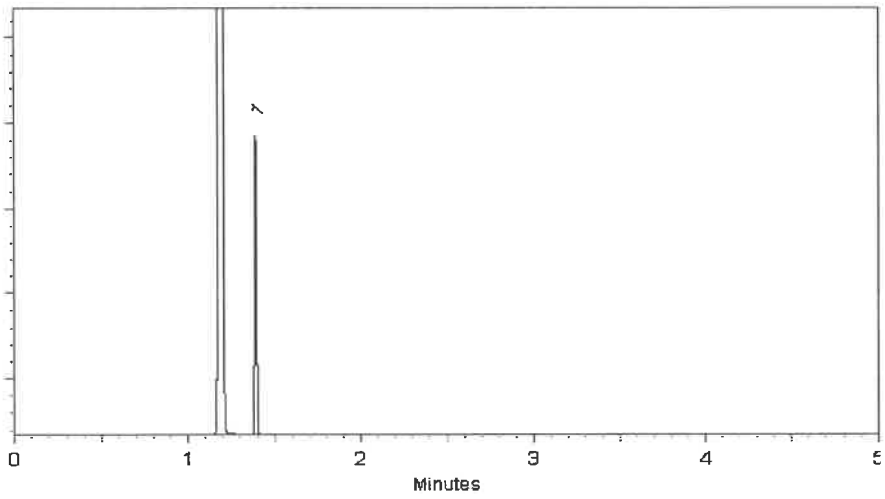
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

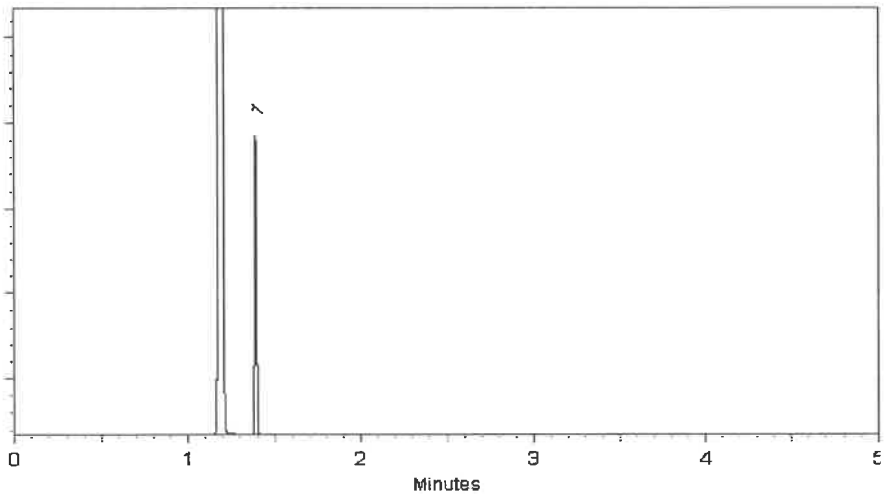
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

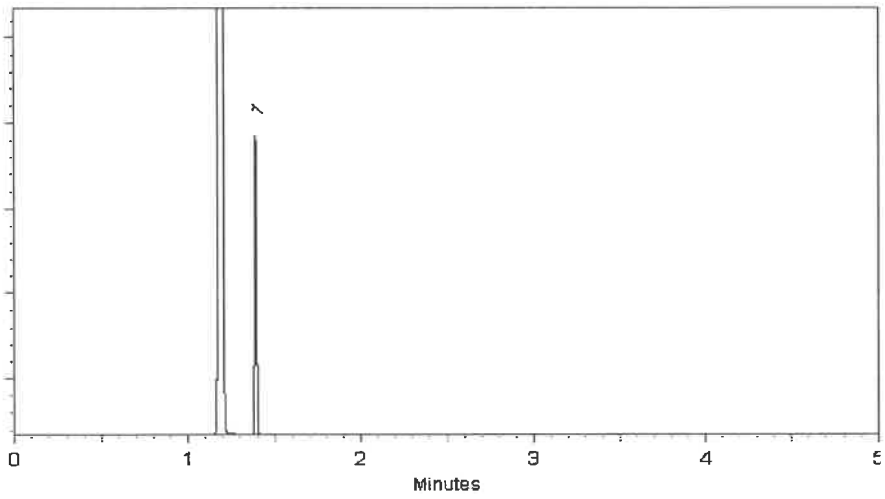
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

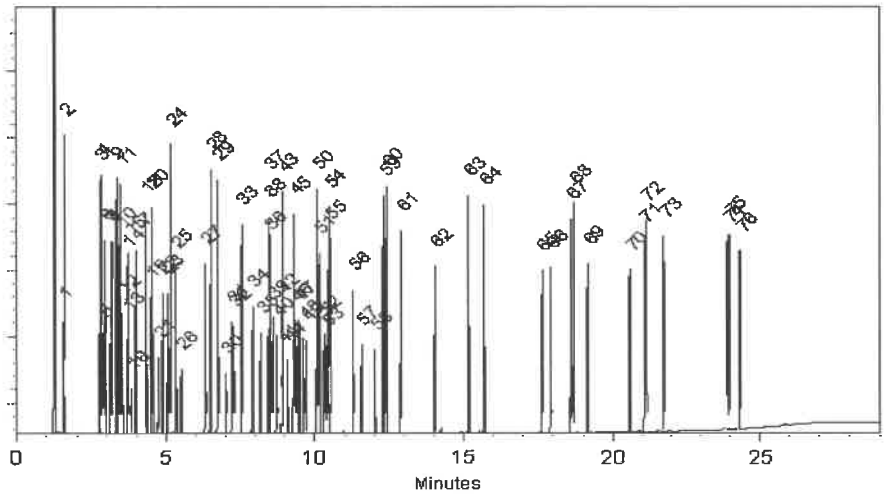
Inj. Temp:
250°C

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

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. : 31046 **Lot No.:** A0205496

Description : Pyridine-d5 Mix

Pyridine-d5 2000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

S11929 ↓ S12012 RC 12/21/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine-d5	7291-22-7	M-317	99%	2,008.4 µg/mL	+/- 32.8508

* 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.)

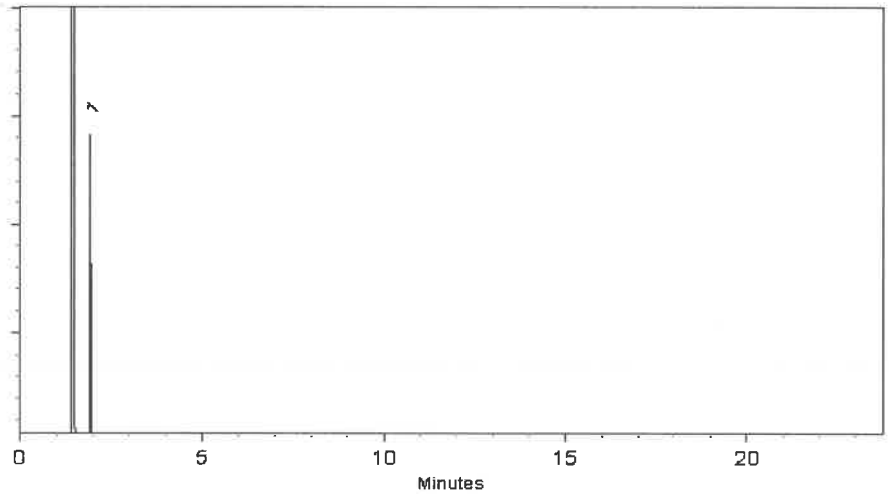
Inj. Temp:
250°C

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.

Dakota Parson - Operations Technician I **Date Mixed:** 14-Dec-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 18-Dec-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

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. : 31046 **Lot No.:** A0205496

Description : Pyridine-d5 Mix

Pyridine-d5 2000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

S11929 ↓ S12012 RC 12/21/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine-d5	7291-22-7	M-317	99%	2,008.4 µg/mL	+/- 32.8508

* 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.)

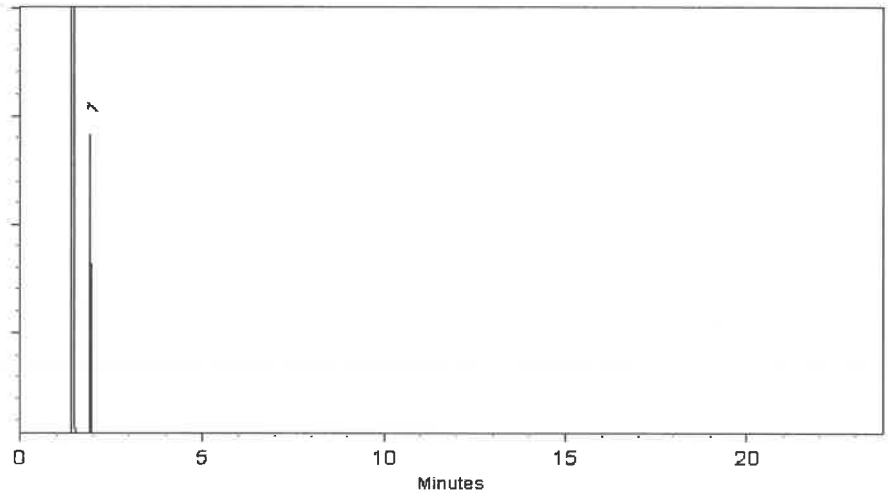
Inj. Temp:
250°C

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.

Dakota Parson - Operations Technician I **Date Mixed:** 14-Dec-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 18-Dec-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

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. : 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.)

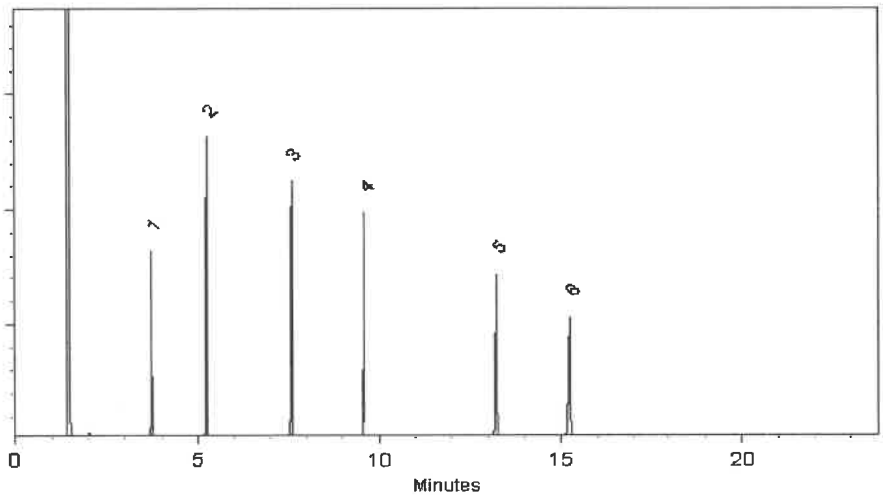
Inj. Temp:
250°C

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

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. : 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.)

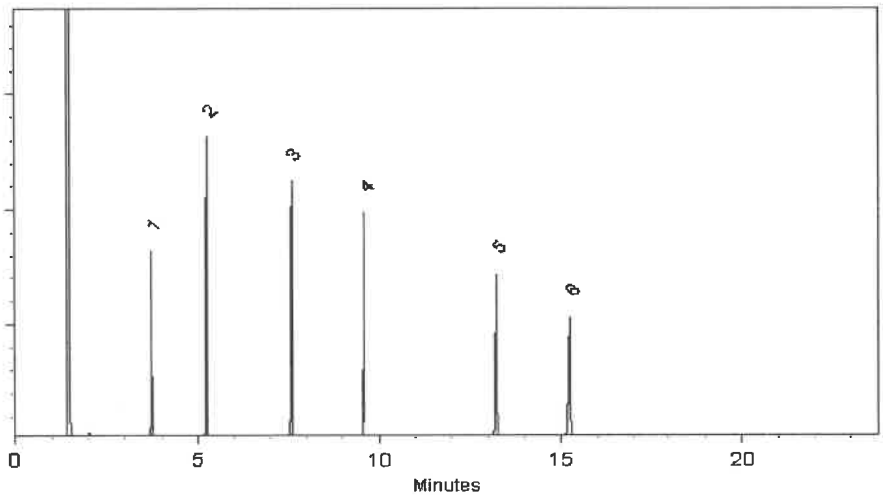
Inj. Temp:
250°C

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 98495
Lot Number: 111722
Description: Pentachlorobenzene

Solvent(s): **Lot#**
Methylene chloride C21F09CAS0000DCM

Expiration Date: 111727
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

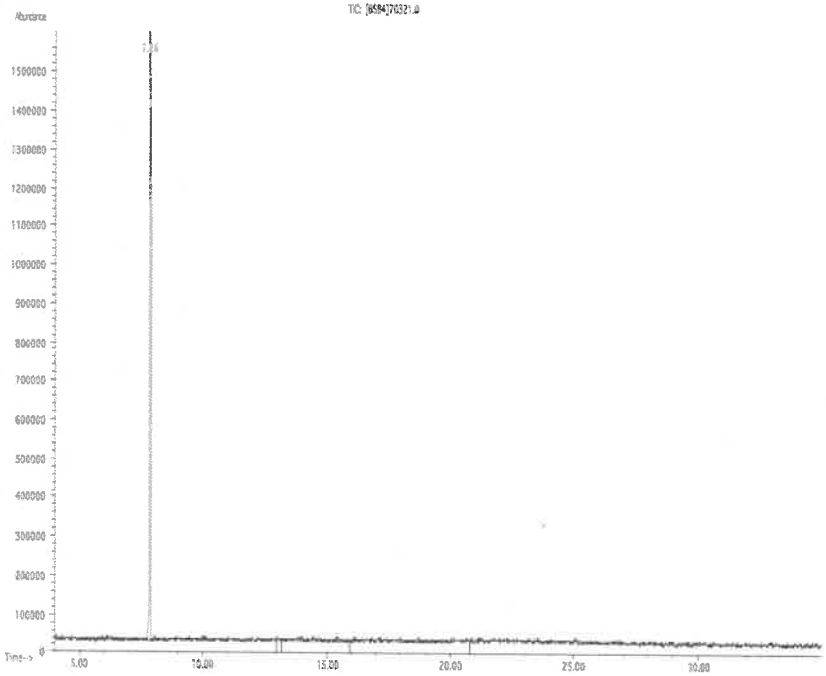
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

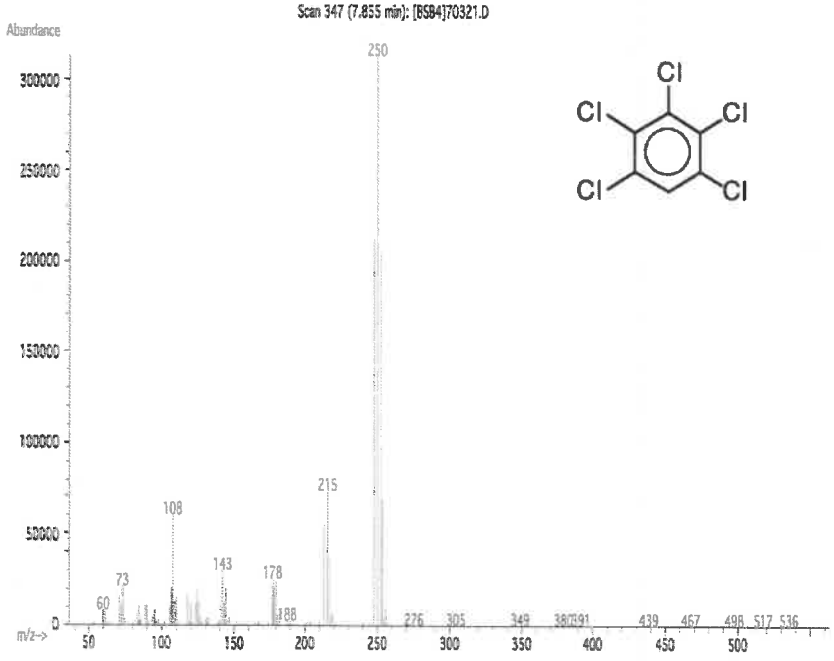
Weight(s) shown below were combined and diluted to (mL): 30.0

Prashant Chauhan	111722
Formulated By: Prashant Chauhan	DATE
Pedro L. Rentas	111722
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Pentachlorobenzene	321	2705100	5000	99.5	0.5	0.15084	0.15092	5002.8	50.4	608-93-5	N/A	orl-rat 1080mg/kg

Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.





S12073
RC/
01/03/24

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Goverament Printing Office, Washington, DC, (1994).

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075
↓
S12079
RC
02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 98495
Lot Number: 111722
Description: Pentachlorobenzene

Solvent(s): **Lot#**
Methylene chloride C21F09CAS0000DCM

Expiration Date: 111727
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

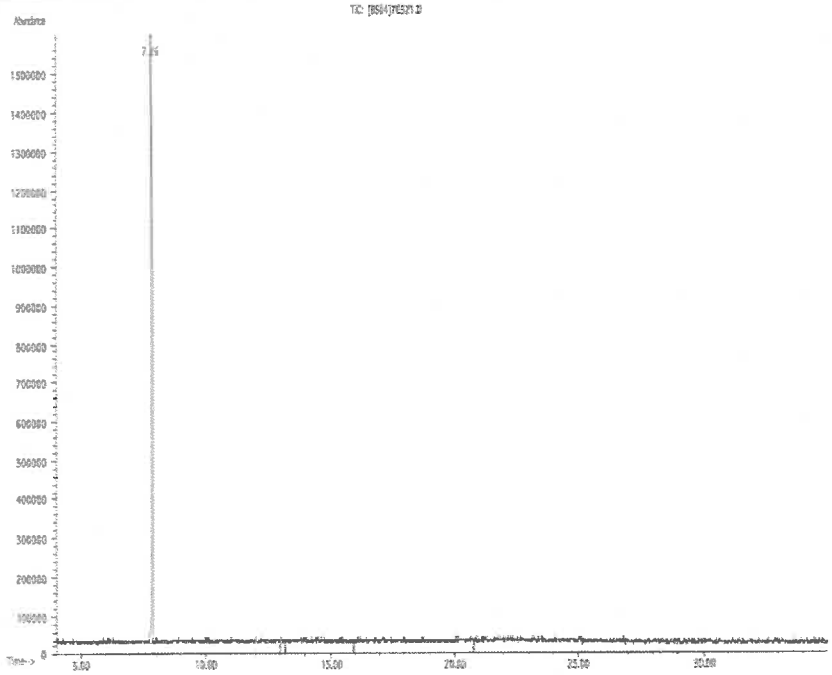
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

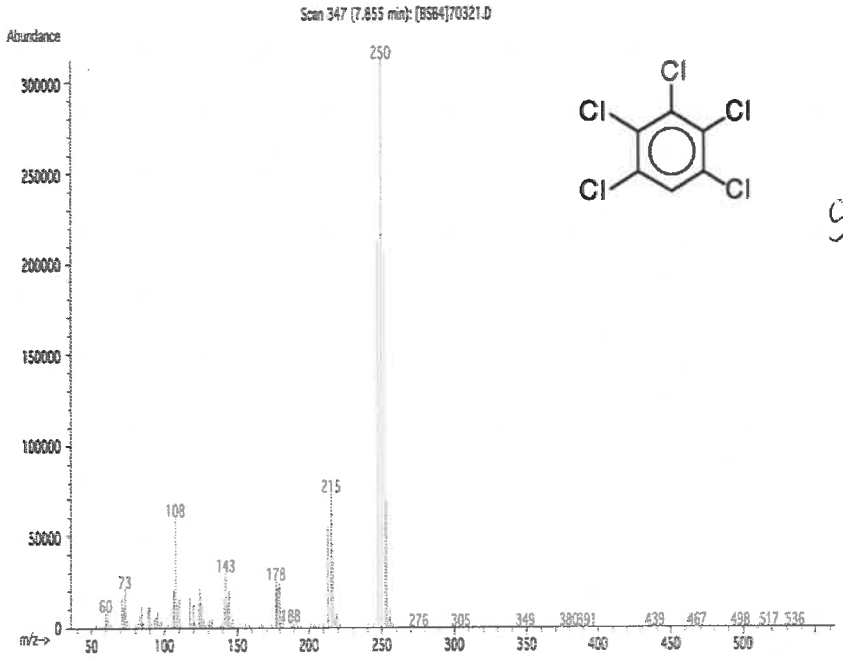
Weight(s) shown below were combined and diluted to (mL): 30.0

Prashant Chauhan	111722	
Formulated By:	Prashant Chauhan	DATE
Pedro L. Rentas	111722	
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Pentachlorobenzene	321	2705100	5000	99.5	0.5	0.15084	0.15092	5002.8	50.4	608-93-5	N/A	orl-rat 1080mg/kg

Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.





S12080 } RC 02/09/24
S12081 }

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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

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

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

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

S12187 ↓ S12206 } RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

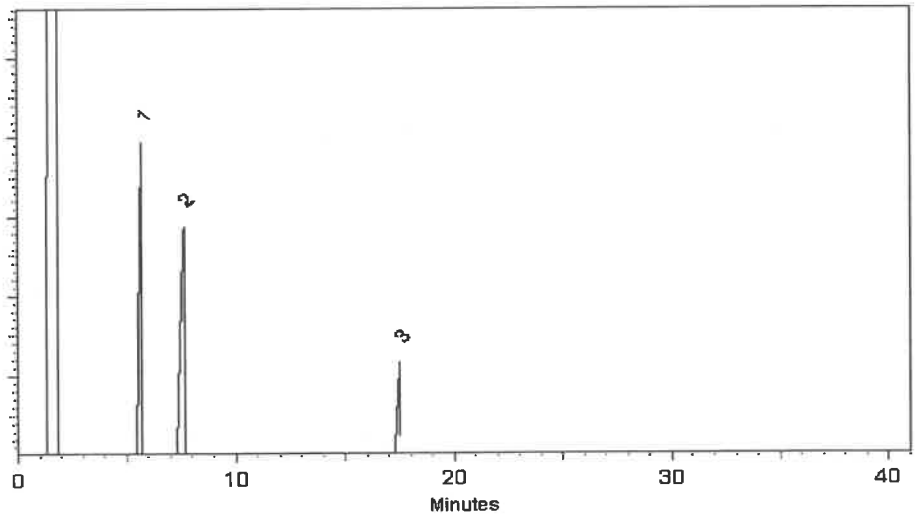
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

S12187 ↓ S12206 } RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

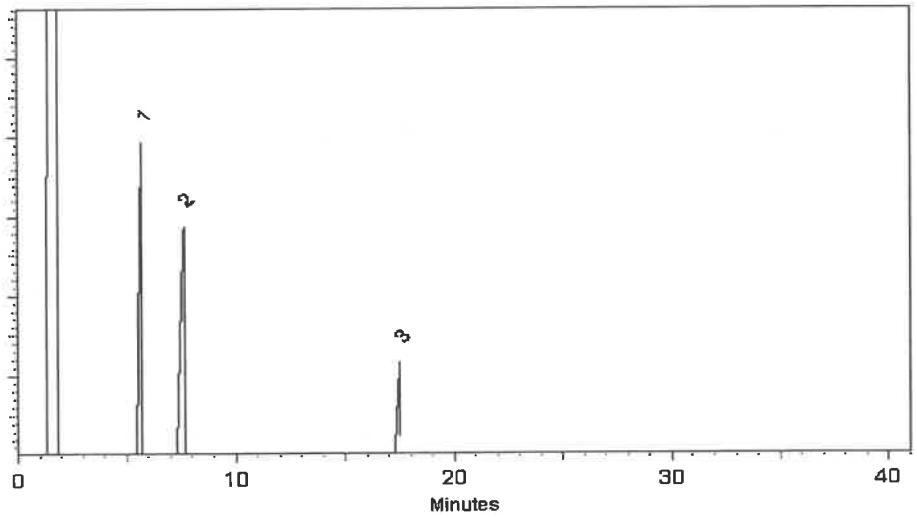
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

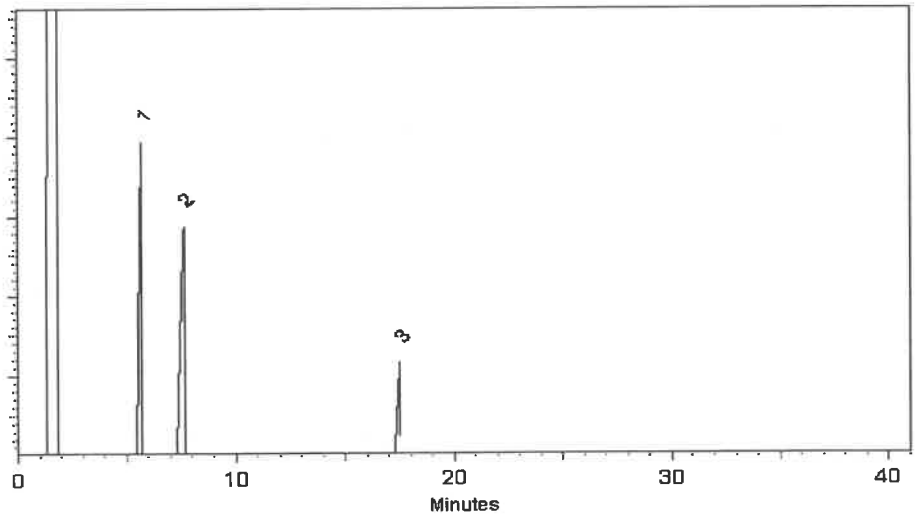
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

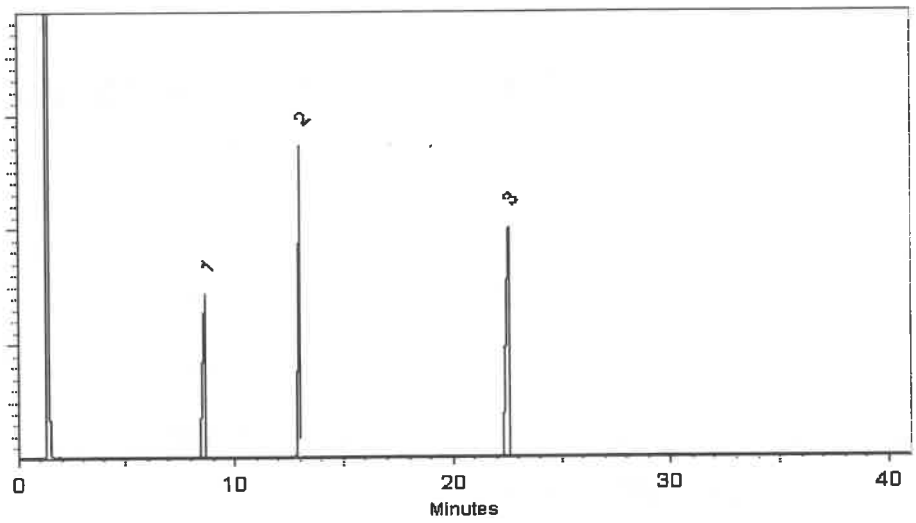
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 90494
Lot Number: 060822
Description: 1-Methylnaphthalene

Expiration Date: 060827
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

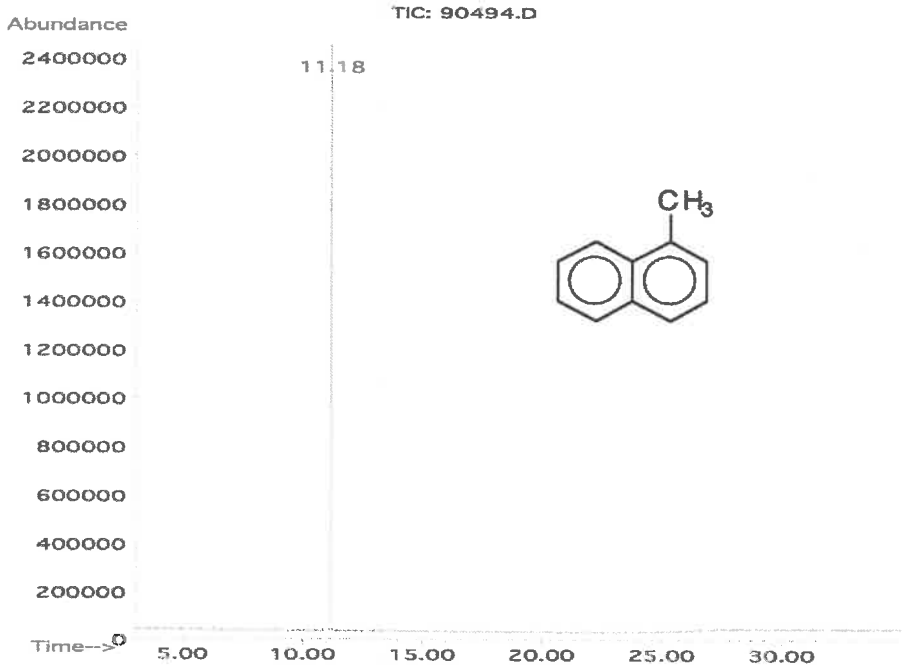
Solvent(s):	Lot#
Methylene chloride	105345

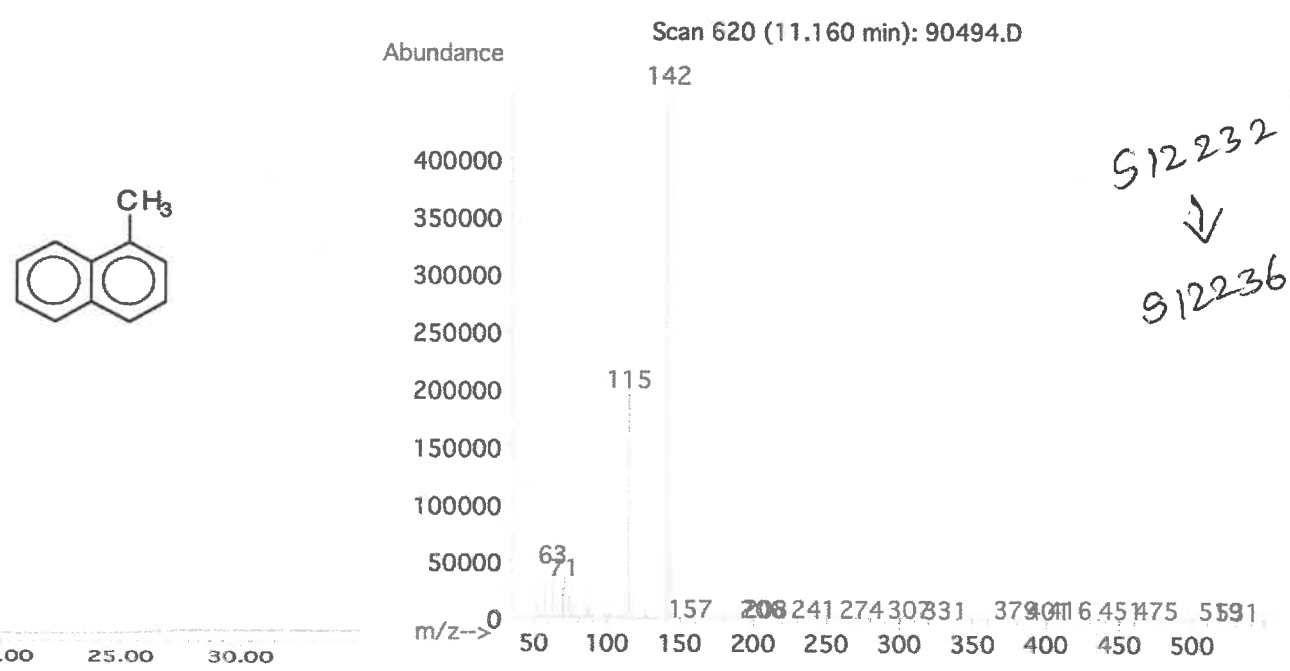
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.003 Flask Uncertainty

Formulated By: Prashant Chauhan	060822 DATE
Reviewed By: Pedro L. Rentas	060822 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1-Methylnaphthalene	313	04413BX	2000	98	0.2	0.20410	0.20423	2001.3	8.2	90-12-0	N/A	orl-rat 1840mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.





S12232 ↓ S12236 RC 04/16/24

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 98496
Lot Number: 040524
Description: 1,2,3,4-Tetrachlorobenzene

Solvent(s): Methylene chloride **Lot#** 23030243

Expiration Date: 040529
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

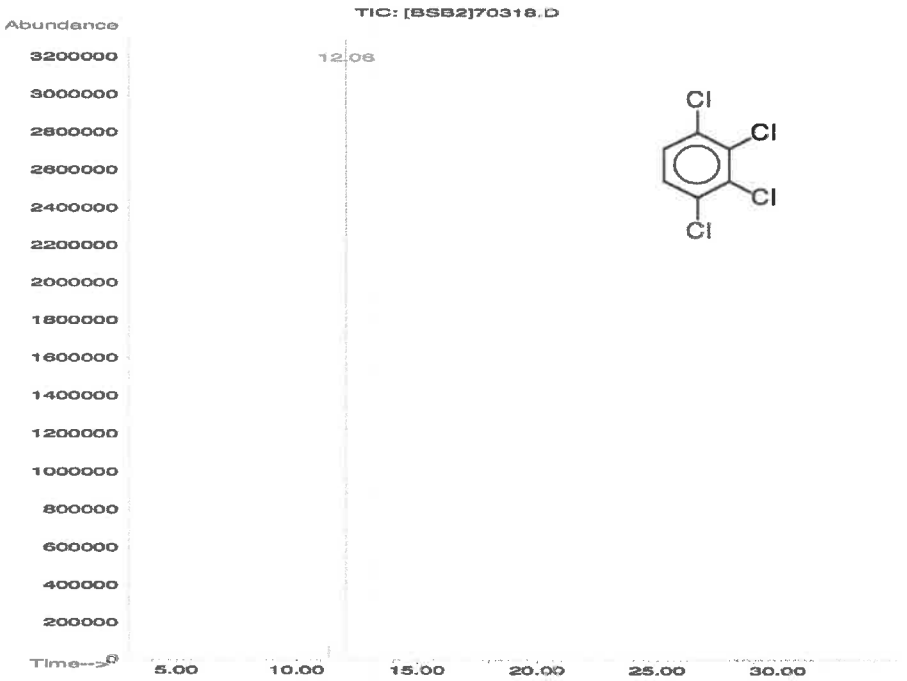
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

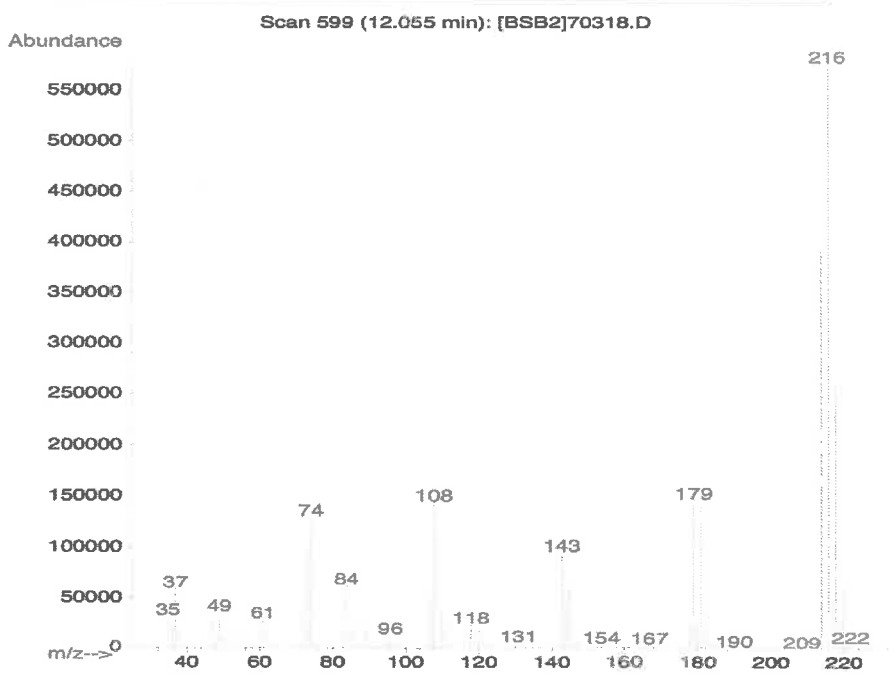
Weight(s) shown below were combined and diluted to (mL): 50.0

Formulated By:	Anthony Mahoney	040524 DATE
Reviewed By:	Pedro L. Rentas	040524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,2,3,4-Tetrachlorobenzene	318	FBW01	5000	97.3	0.2	0.25709	0.25742	5006.4	20.7	634-66-2	N/A	orl-rat 1167mg/kg

Method GC8MSD-3.M: Column: (30m X 0.25mm ID X 0.25µm film thickness), Temp 1 = 50°C (1min.), Temp 2 = 300°C (4 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C. Analysis performed by Nicole Poisson.





S12237 RC 04/16/24
↓
S12241

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 98496
Lot Number: 040524
Description: 1,2,3,4-Tetrachlorobenzene

Solvent(s): Methylene chloride **Lot#** 23030243

Expiration Date: 040529
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

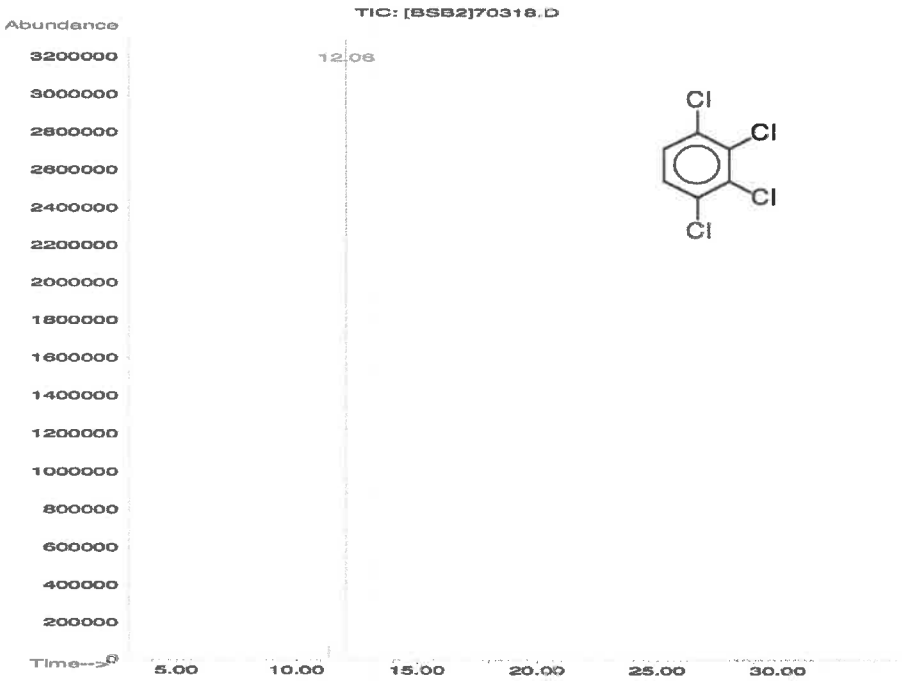
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

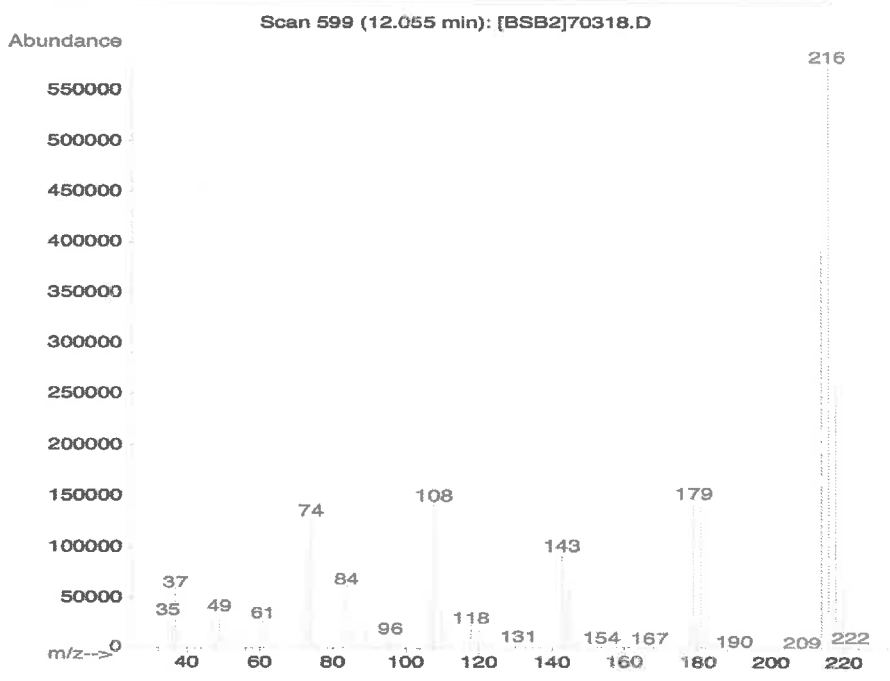
Weight(s) shown below were combined and diluted to (mL): 50.0

Formulated By:	Anthony Mahoney	040524 DATE
Reviewed By:	Pedro L. Rentas	040524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,2,3,4-Tetrachlorobenzene	318	FBW01	5000	97.3	0.2	0.25709	0.25742	5006.4	20.7	634-66-2	N/A	orl-rat 1167mg/kg

Method GC8MSD-3.M: Column: (30m X 0.25mm ID X 0.25µm film thickness), Temp 1 = 50°C (1min.), Temp 2 = 300°C (4 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C. Analysis performed by Nicole Poisson.





S12237 RC 04/16/24
↓
S12241

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °C	Methylene Chloride	1/16/2028	Benzaldehyde Solution, 1000 mg/L, 1.3 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
benzaldehyde	100-52-7	98.3	442.421.1P	996.8 ± 11.49

S12275 ↓ S12279 } RC/ 05/24/24

*Not a certified value

Certified By: S. Hunter

Scott Hunter
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

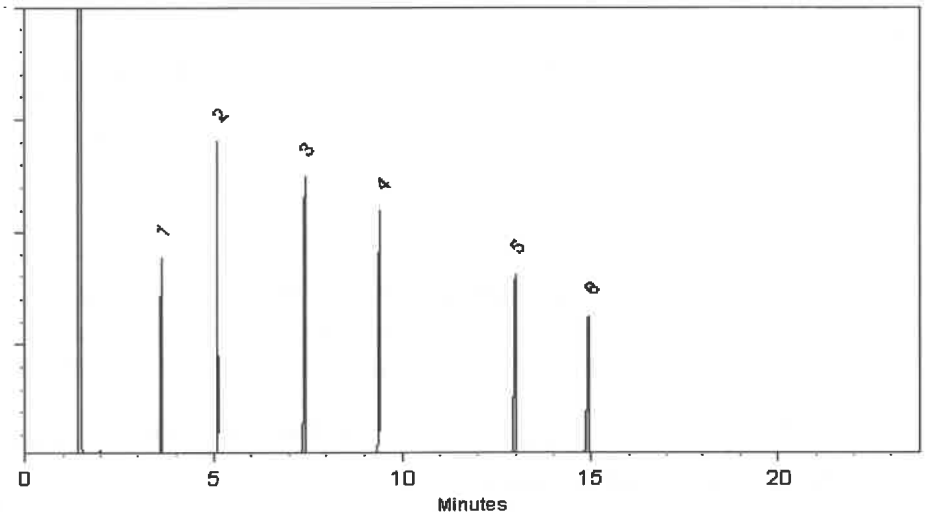
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

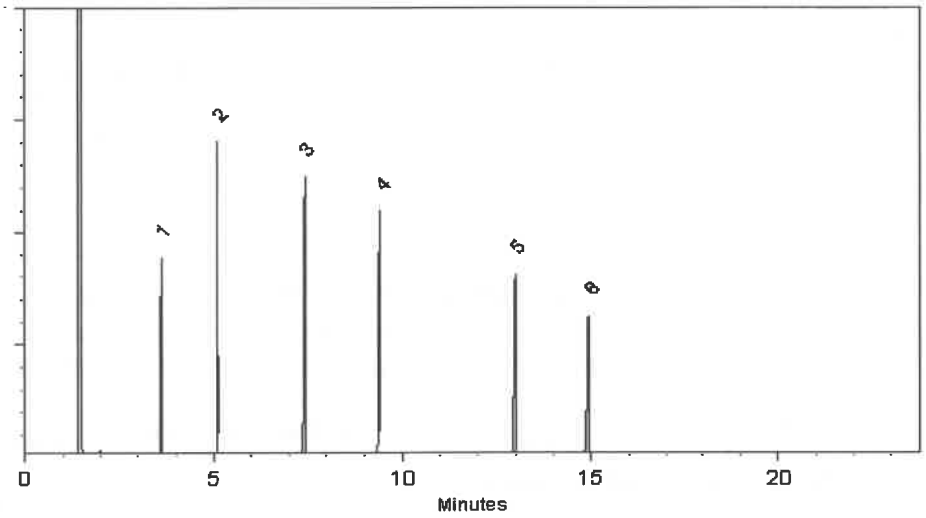
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

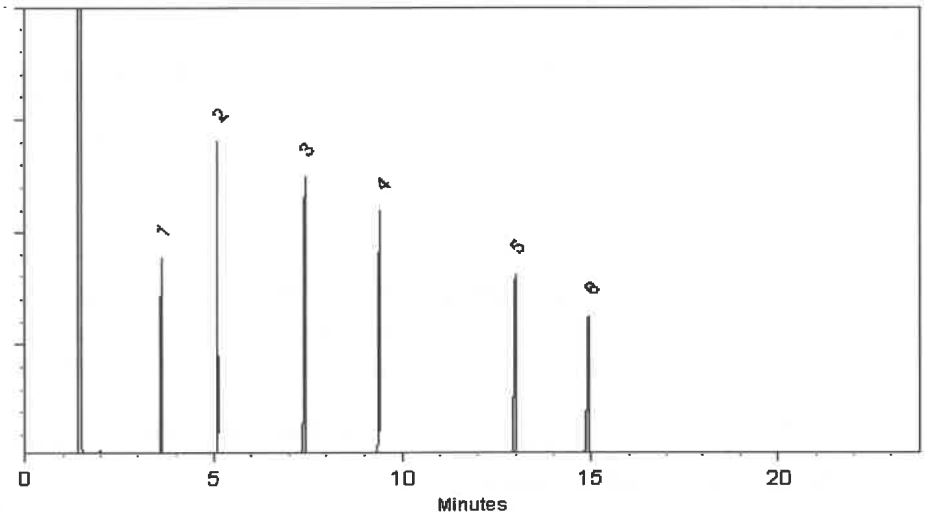
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

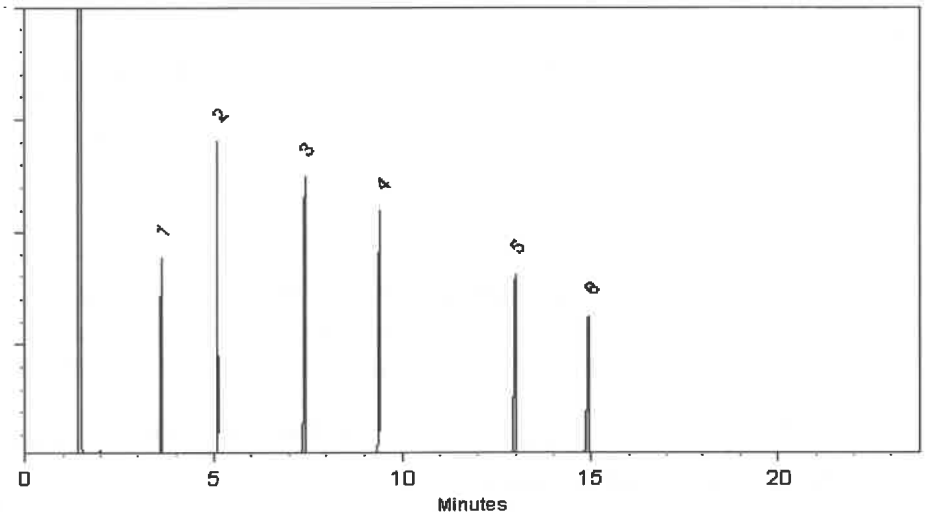
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

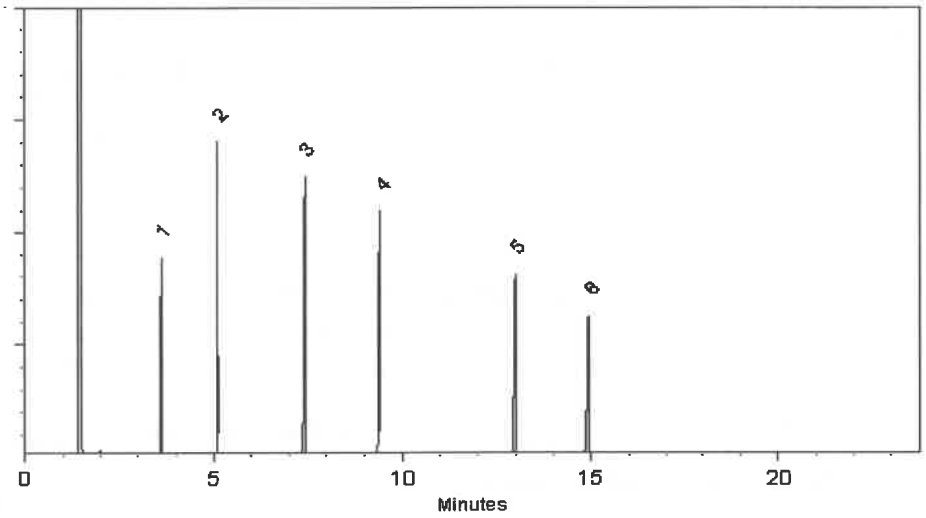
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

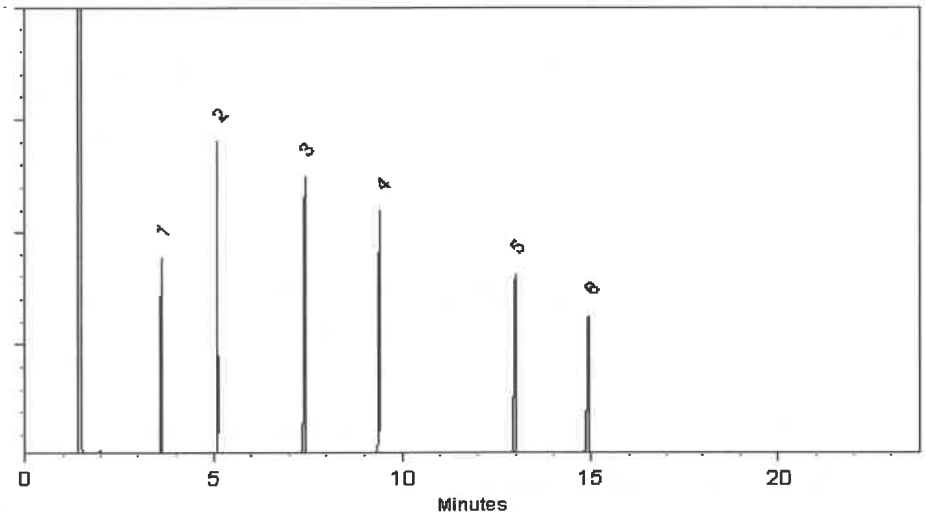
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31810 **Lot No.:** A0206801

Description : OLC03.2 SVOA Deuterated Monitoring Compounds Mix

OLC 03.2 SVOA Deuterated Monitoring Compounds, 1mL/ampul, Methylene Chloride, 2000µg/mL

S12362 ↓ S12388 } RC 05/31/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **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	Phenol-d5	4165-62-2	HJ-481	99%	2,010.0 µg/mL	+/- 60.7996
2	bis(2-Chloroethyl) ether-d8	93952-02-4	PR-31659	99%	2,005.0 µg/mL	+/- 60.6483
3	2-Chlorophenol-d4	93951-73-6	PR-30568	98%	2,010.0 µg/mL	+/- 60.7990
4	4-Methylphenol-d8	190780-66-6	PR-25303	99%	2,009.0 µg/mL	+/- 60.7693
5	Nitrobenzene-d5	4165-60-0	I-25158	99%	2,002.0 µg/mL	+/- 60.5576
6	2-Nitrophenol-d4	93951-78-1	H-151	99%	2,000.0 µg/mL	+/- 60.4971
7	2,4-Dichlorophenol-d3	93951-74-7	AB-210	99%	2,003.0 µg/mL	+/- 60.5878
8	4-Chloroaniline-d4	191656-33-4	FG-142	99%	2,005.0 µg/mL	+/- 60.6483
9	Dimethylphthalate-d6	85448-30-2	X-477	99%	2,001.0 µg/mL	+/- 60.5273
10	Acenaphthylene-d8	93951-97-4	FG-239	99%	2,009.0 µg/mL	+/- 60.7693
11	4-Nitrophenol-d4	93951-79-2	FG-377	99%	2,006.0 µg/mL	+/- 60.6786
12	Fluorene-d10	81103-79-9	FG-335	99%	2,006.0 µg/mL	+/- 60.6786
13	4,6-Dinitro-2-methylphenol-d2	93951-76-9	FG-143	99%	2,006.0 µg/mL	+/- 60.6786
14	Anthracene-d10	1719-06-8	PR-31411	99%	2,000.0 µg/mL	+/- 60.4971
15	Pyrene-d10	1718-52-1	PR-30304	99%	2,007.0 µg/mL	+/- 60.7088
16	Benzo(a)pyrene-d12	63466-71-7	PR-34192A	99%	2,006.0 µg/mL	+/- 60.6786

* 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:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

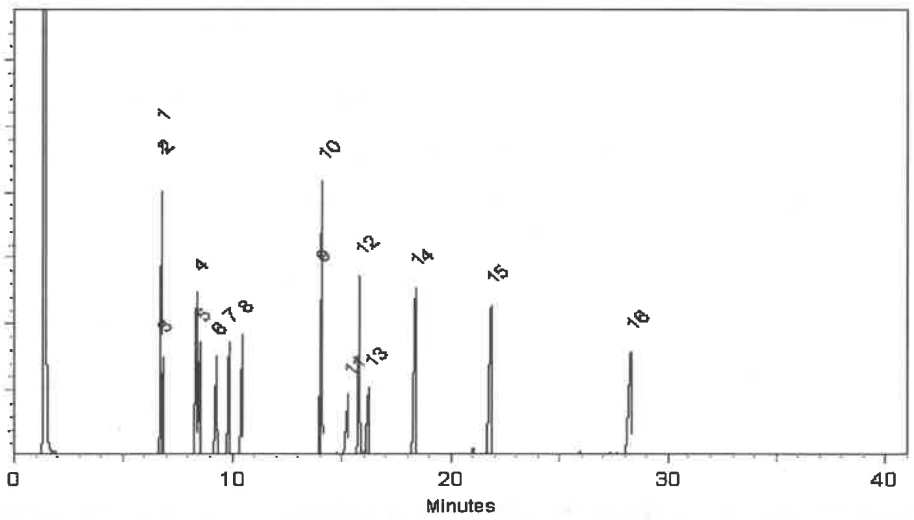
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 20-Jan-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 29-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31810 **Lot No.:** A0206801

Description : OLC03.2 SVOA Deuterated Monitoring Compounds Mix

OLC 03.2 SVOA Deuterated Monitoring Compounds, 1mL/ampul, Methylene Chloride, 2000µg/mL

S12362 ↓ S12388 } RC 05/31/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **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	Phenol-d5	4165-62-2	HJ-481	99%	2,010.0 µg/mL	+/- 60.7996
2	bis(2-Chloroethyl) ether-d8	93952-02-4	PR-31659	99%	2,005.0 µg/mL	+/- 60.6483
3	2-Chlorophenol-d4	93951-73-6	PR-30568	98%	2,010.0 µg/mL	+/- 60.7990
4	4-Methylphenol-d8	190780-66-6	PR-25303	99%	2,009.0 µg/mL	+/- 60.7693
5	Nitrobenzene-d5	4165-60-0	I-25158	99%	2,002.0 µg/mL	+/- 60.5576
6	2-Nitrophenol-d4	93951-78-1	H-151	99%	2,000.0 µg/mL	+/- 60.4971
7	2,4-Dichlorophenol-d3	93951-74-7	AB-210	99%	2,003.0 µg/mL	+/- 60.5878
8	4-Chloroaniline-d4	191656-33-4	FG-142	99%	2,005.0 µg/mL	+/- 60.6483
9	Dimethylphthalate-d6	85448-30-2	X-477	99%	2,001.0 µg/mL	+/- 60.5273
10	Acenaphthylene-d8	93951-97-4	FG-239	99%	2,009.0 µg/mL	+/- 60.7693
11	4-Nitrophenol-d4	93951-79-2	FG-377	99%	2,006.0 µg/mL	+/- 60.6786
12	Fluorene-d10	81103-79-9	FG-335	99%	2,006.0 µg/mL	+/- 60.6786
13	4,6-Dinitro-2-methylphenol-d2	93951-76-9	FG-143	99%	2,006.0 µg/mL	+/- 60.6786
14	Anthracene-d10	1719-06-8	PR-31411	99%	2,000.0 µg/mL	+/- 60.4971
15	Pyrene-d10	1718-52-1	PR-30304	99%	2,007.0 µg/mL	+/- 60.7088
16	Benzo(a)pyrene-d12	63466-71-7	PR-34192A	99%	2,006.0 µg/mL	+/- 60.6786

* 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:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

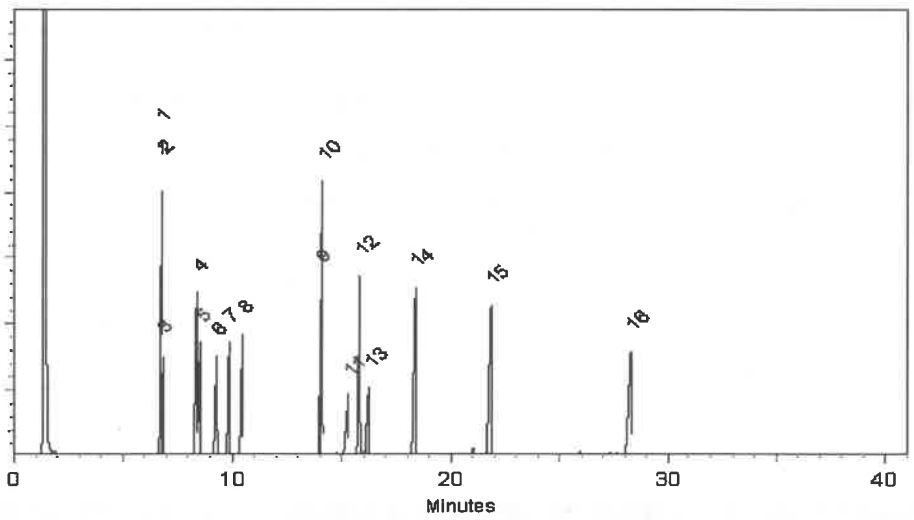
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 20-Jan-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 29-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
10/21/2024	318989

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

Received : SJ
10/23/24
9:47

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240903-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW1024	7098-04
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium ✓	HW1024	7098-05D
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW1024	7098-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH ✓	HW1024	7098-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW1024	7098-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions ✓	HW1024	7098-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients ✓	HW1024	7098-09B
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW1024	7098-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW1024	7098-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW1024	7098-96
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW1024	7098-100
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease ✓	HW1024	7098-94
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW1024	7098-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW1024	7098-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW1024	7098-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW1024	7098-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW1024	7098-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW1024	7098-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW1024	7098-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW1024	7098-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW1024	7098-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW1024	7098-106

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
10/21/2024	318989

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

Received · SJ
10/23/24
9:47

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240903-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL ✓✓	HW1024	7098-105

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488