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

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : FORT MEADE MD TIPTON AIRFIELD PARCEL RI - 0111169

WESTON SOLUTIONS

1400 Weston Way

PO Box 2653

West Chester, PA - 19380

Phone No: 610-701-7400

ORDER ID : Q1569

ATTENTION : Nathan Fretz

Laboratory Certification ID # 20012

Table Of Contents for Q1569

1) TCLP SEMI-VOLATILE DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 7
5) Conformance/Non Conformance 8
6) QA Checklist 10
7) Chronicle 11
8) Hit Summary 12
9) QC Data Summary For TCLP BNA 13
- 9.1) Deuterated Monitoring Compound Summary 14
- 9.2) MS/MSD Summary 15
- 9.3) LCS/LCSD Summary 17
- 9.4) Method Blank Summary 18
- 9.5) GS/MS Tune Summary 19
- 9.6) Internal Standard Area and RT Summary 21

10) Sample Data 23
- 10.1) PB167133TB 24
- 10.2) TAP-IDW-SOIL-031325-01 34
- 10.3) TAP-IDW-SOIL-031325-02 44

11) Calibration Data Summary 55
- 11.1) Initial Calibration Data 3
  - 11.1.1) BF031025 56
- 11.2) Continued Calibration Data 463
  - 11.2.1) BF141986.D 463
  - 11.2.2) BF141994.D 519

12) QC Sample Data 575
- 12.1) Tune Raw Data 576
- 12.2) Method Blank Data 584
- 12.3) LCS Data 594
- 12.4) MS Data 645
- 12.5) MSD Data 696

13) Manual Integration 747
14) Analytical Runlogs 749
15) Extraction Logs 753
- 15.1) PB167133.pdf 753

15.2) PB167133IC.pdf 757
15.3) PB167168.pdf 758
15.4) PB167168IC.pdf 760
16) Standard Prep Logs 761
17) Shipping Document 948
17.1) Chain Of Custody 949
17.2) Lab Certificate 950
18) Not Reviewed Data 951

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

Cover Page

Order ID : Q1569

Project ID : Fort Meade MD Tipton Airfield Parcel RI - 0111169

Client : Weston Solutions

Lab Sample Number	Client Sample Number
Q1569-01	TAP-IDW-SOIL-031325-01
Q1569-02	TAP-IDW-SOIL-031325-01
Q1569-04	TAP-IDW-SOIL-031325-02
Q1569-05	TAP-IDW-SOIL-031325-02

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

Signature : _____

Date: 3/27/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Weston Solutions
Project Name: Fort Meade MD Tipton Airfield Parcel RI - 0111169
Project # N/A
Chemtech Project # Q1569
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 03/14/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for TCLP BNA.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

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

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

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.

Concentration of Water Sample:

Concentration ug/L = (Ax) (Is) (Vt) (DF) (GPC)

$$\frac{}{(Ais)\ (RRF)\ (Vo)\ (Vi)}$$

Where,
Ax = Area of the characteristic ion for the compound to be measured.
Ais = Area of the characteristic ion for the internal standard.
Is = Amount of internal standard injected in ng.
Vo = Volume of water extracted in mL.
Vi = Volume of extract injected in uL.
Vt = Volume of the concentrated extract in uL

$\overline{RRF}$ = Mean Relative Response Factor determined from the initial calibration standard.
GPC = Vin = GPC factor (If no GPC is performed, GPC=1)
Vout

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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

CHEMTECH PROJECT NUMBER: Q1569 MATRIX: TCLP

METHOD: 8270E/3510/1311

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The MS recoveries met the requirements for all compounds. The MSD recoveries met the acceptable requirements. The RPD met criteria.			
	The Blank Spike met requirements for all samples.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

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

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

ADDITIONAL COMMENTS:

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

_____ _____

QA REVIEW Date

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1569

	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: MOHAMMAD AHMED **Date:** 03/27/2025

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

LAB CHRONICLE

OrderID:	Q1569	**OrderDate:**	3/14/2025 10:44:00 AM
Client:	Weston Solutions	**Project:**	Fort Meade MD Tipton Airfield Parcel RI - 0111169
Contact:	Nathan Fretz	**Location:**	I31,I33

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1569-02	**TAP-IDW-SOIL-03132 5-01**	**TCLP**			**03/13/25**			**03/14/25**
			TCLP BNA	8270E		03/17/25	03/18/25	
Q1569-05	**TAP-IDW-SOIL-03132 5-02**	**TCLP**			**03/13/25**			**03/14/25**
			TCLP BNA	8270E		03/17/25	03/18/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1569

Client: Weston Solutions

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

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q1569

Client: Weston Solutions

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167133TB	PB167133TB	2-Fluorophenol	150	136	91		19	119
		Phenol-d6	150	131	87		10	130
		Nitrobenzene-d5	100	96.8	97		44	120
		2-Fluorobiphenyl	100	95.9	96		44	119
		2,4,6-Tribromophenol	150	146	98		43	140
		Terphenyl-d14	100	99.2	99		50	134
PB167168BL	PB167168BL	2-Fluorophenol	150	137	92		19	119
		Phenol-d6	150	132	88		10	130
		Nitrobenzene-d5	100	97.0	97		44	120
		2-Fluorobiphenyl	100	96.4	96		44	119
		2,4,6-Tribromophenol	150	149	99		43	140
		Terphenyl-d14	100	101	101		50	134
PB167168BS	PB167168BS	2-Fluorophenol	150	140	93		19	119
		Phenol-d6	150	135	90		10	130
		Nitrobenzene-d5	100	97.0	97		44	120
		2-Fluorobiphenyl	100	97.6	98		44	119
		2,4,6-Tribromophenol	150	150	100		43	140
		Terphenyl-d14	100	96.2	96		50	134
Q1568-04MS	JC-03-03132025MS	2-Fluorophenol	150	124	83		19	119
		Phenol-d6	150	110	73		10	130
		Nitrobenzene-d5	100	96.6	97		44	120
		2-Fluorobiphenyl	100	96.8	97		44	119
		2,4,6-Tribromophenol	150	143	95		43	140
		Terphenyl-d14	100	85.4	85		50	134
Q1568-04MSD	JC-03-03132025MSD	2-Fluorophenol	150	127	84		19	119
		Phenol-d6	150	112	75		10	130
		Nitrobenzene-d5	100	96.7	97		44	120
		2-Fluorobiphenyl	100	99.2	99		44	119
		2,4,6-Tribromophenol	150	145	96		43	140
		Terphenyl-d14	100	85.7	86		50	134
Q1569-02	TAP-IDW-SOIL-031325-01	2-Fluorophenol	150	138	92		19	119
		Phenol-d6	150	124	83		10	130
		Nitrobenzene-d5	100	104	104		44	120
		2-Fluorobiphenyl	100	100	100		44	119
		2,4,6-Tribromophenol	150	174	116		43	140
		Terphenyl-d14	100	103	103		50	134
Q1569-05	TAP-IDW-SOIL-031325-02	2-Fluorophenol	150	133	89		19	119
		Phenol-d6	150	123	82		10	130
		Nitrobenzene-d5	100	98.0	98		44	120
		2-Fluorobiphenyl	100	95.0	95		44	119
		2,4,6-Tribromophenol	150	169	113		43	140
		Terphenyl-d14	100	104	104		50	134

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.: Q1569

Client: Weston Solutions

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1568-04MS		**Client Sample ID: JC-03-03132025MS**						**DataFile: BF141992.D**			
Pyridine	500	0	320	ug/L	64				10	153	
1,4-Dichlorobenzene	500	0	430	ug/L	86				29	112	
2-Methylphenol	500	0	420	ug/L	84				30	117	
3+4-Methylphenols	500	0	410	ug/L	82				29	110	
Hexachloroethane	500	0	430	ug/L	86				21	115	
Nitrobenzene	500	0	440	ug/L	88				45	121	
Hexachlorobutadiene	500	0	460	ug/L	92				22	124	
2,4,6-Trichlorophenol	500	0	450	ug/L	90				50	125	
2,4,5-Trichlorophenol	500	0	460	ug/L	92				53	123	
2,4-Dinitrotoluene	500	0	460	ug/L	92				57	128	
Hexachlorobenzene	500	0	510	ug/L	102				53	125	
Pentachlorophenol	1000	0	950	ug/L	95				35	138	

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.: Q1569

Client: Weston Solutions

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1568-04MSD		**Client Sample ID: JC-03-03132025MSD**						**DataFile: BF141993.D**			
Pyridine	500	0	320	ug/L	64	0			10	153	20
1,4-Dichlorobenzene	500	0	430	ug/L	86	0			29	112	20
2-Methylphenol	500	0	430	ug/L	86	2			30	117	20
3+4-Methylphenols	500	0	420	ug/L	84	2			29	110	20
Hexachloroethane	500	0	430	ug/L	86	0			21	115	20
Nitrobenzene	500	0	440	ug/L	88	0			45	121	20
Hexachlorobutadiene	500	0	450	ug/L	90	2			22	124	20
2,4,6-Trichlorophenol	500	0	460	ug/L	92	2			50	125	20
2,4,5-Trichlorophenol	500	0	470	ug/L	94	2			53	123	20
2,4-Dinitrotoluene	500	0	470	ug/L	94	2			57	128	20
Hexachlorobenzene	500	0	500	ug/L	100	2			53	125	20
Pentachlorophenol	1000	0	940	ug/L	94	1			35	138	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.: Q1569

Client: Weston Solutions

Analytical Method: 8270E **DataFile:** BF141988.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167168BS	Pyridine	50	40.0	ug/L	80				10	153	
	1,4-Dichlorobenzene	50	45.5	ug/L	91				29	112	
	2-Methylphenol	50	45.8	ug/L	92				30	117	
	3+4-Methylphenols	50	44.7	ug/L	89				29	110	
	Hexachloroethane	50	44.6	ug/L	89				21	115	
	Nitrobenzene	50	44.6	ug/L	89				45	121	
	Hexachlorobutadiene	50	46.1	ug/L	92				22	124	
	2,4,6-Trichlorophenol	50	45.5	ug/L	91				50	125	
	2,4,5-Trichlorophenol	50	46.9	ug/L	94				53	123	
	2,4-Dinitrotoluene	50	47.6	ug/L	95				57	128	
	Hexachlorobenzene	50	48.3	ug/L	97				53	125	
	Pentachlorophenol	100	93.4	ug/L	93				35	138	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167168BL

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

Lab File ID: BF141987.D Lab Sample ID: PB167168BL

Instrument ID: BNA_F Date Extracted: 03/17/2025

Matrix: (soil/water) water Date Analyzed: 03/18/2025

Level: (low/med) LOW Time Analyzed: 10:30

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167168BS	PB167168BS	BF141988.D	03/18/2025
TAP-IDW-SOIL-031325-01	Q1569-02	BF141990.D	03/18/2025
JC-03-03132025MS	Q1568-04MS	BF141992.D	03/18/2025
JC-03-03132025MSD	Q1568-04MSD	BF141993.D	03/18/2025
TAP-IDW-SOIL-031325-02	Q1569-05	BF141991.D	03/18/2025
PB167133TB	PB167133TB	BF141989.D	03/18/2025

COMMENTS:

Form IV SV

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: WEST04

Lab Code: CHEM SAS No.: Q1569 SDG NO.: Q1569

Lab File ID: BF141896.D DFTPP Injection Date: 03/10/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.1
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	32.0
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	44.8
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	6.7
275	10.0 - 60.0% of mass 198	31.2
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	19.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (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	BF141897.D	03/10/2025	11:01
SSTDICC005	SSTDICC005	BF141898.D	03/10/2025	11:30
SSTDICC010	SSTDICC010	BF141899.D	03/10/2025	12:00
SSTDICC020	SSTDICC020	BF141900.D	03/10/2025	12:29
SSTDICCC040	SSTDICCC040	BF141901.D	03/10/2025	12:58
SSTDICC060	SSTDICC060	BF141903.D	03/10/2025	13:57
SSTDICC080	SSTDICC080	BF141904.D	03/10/2025	14:27
SSTDICC050	SSTDICC050	BF141905.D	03/10/2025	15:20

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: WEST04

Lab Code: CHEM SAS No.: Q1569 SDG NO.: Q1569

Lab File ID: BF141985.D DFTPP Injection Date: 03/18/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.7
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	32.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	30.4
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	17.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141986.D	03/18/2025	10:00
PB167168BL	PB167168BL	BF141987.D	03/18/2025	10:30
PB167168BS	PB167168BS	BF141988.D	03/18/2025	10:59
PB167133TB	PB167133TB	BF141989.D	03/18/2025	11:28
TAP-IDW-SOIL-031325-01	Q1569-02	BF141990.D	03/18/2025	12:03
TAP-IDW-SOIL-031325-02	Q1569-05	BF141991.D	03/18/2025	12:32
JC-03-03132025MS	Q1568-04MS	BF141992.D	03/18/2025	13:01
JC-03-03132025MSD	Q1568-04MSD	BF141993.D	03/18/2025	13:31
SSTDCCC040EC	SSTDCCC040	BF141994.D	03/18/2025	14:30

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.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/18/2025

Lab File ID: BF141986.D Time Analyzed: 10:00

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	200429	6.881	738787	8.16	404779	9.92
	UPPER LIMIT	400858	7.381	1477570	8.663	809558	10.416
	LOWER LIMIT	100215	6.381	369394	7.663	202390	9.416
	EPA SAMPLE NO.						
01	PB167133TB	154147	6.88	600060	8.16	341484	9.92
02	PB167168BL	150161	6.88	582481	8.16	328657	9.92
03	PB167168BS	153624	6.88	605121	8.16	333256	9.92
04	JC-03-03132025MS	152727	6.88	588011	8.16	327264	9.92
05	JC-03-03132025MSD	138565	6.88	535417	8.16	298567	9.92
06	TAP-IDW-SOIL-031325-01	146072	6.88	574336	8.16	334363	9.91
07	TAP-IDW-SOIL-031325-02	148424	6.88	586714	8.16	339225	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.: Q1569 SAS No.: Q1569 SDG NO.: Q1569

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/18/2025

Lab File ID: BF141986.D Time Analyzed: 10:00

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	656489	11.404	423581	14.045	442923	15.515
	UPPER LIMIT	1312980	11.904	847162	14.545	885846	16.015
	LOWER LIMIT	328245	10.904	211791	13.545	221462	15.015
	EPA SAMPLE NO.						
01	PB167133TB	613248	11.40	422319	14.04	357882	15.52
02	PB167168BL	587512	11.40	398767	14.04	350327	15.52
03	PB167168BS	550204	11.40	364178	14.05	375705	15.52
04	JC-03-03132025MS	504077	11.40	334257	14.04	409135	15.52
05	JC-03-03132025MSD	470466	11.40	320562	14.04	374866	15.52
06	TAP-IDW-SOIL-031325-01	612194	11.40	452555	14.04	341952	15.52
07	TAP-IDW-SOIL-031325-02	629815	11.40	432125	14.04	388734	15.51

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

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

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

SAMPLE DATA

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/17/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/17/25
Client Sample ID:	PB167133TB	SDG No.:	Q1569
Lab Sample ID:	PB167133TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141989.D	1	03/17/25 10:15	03/18/25 11:28	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	40.0	U	12.8	40.0	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	40.0	U	5.30	40.0	50.0	ug/L
95-48-7	2-Methylphenol	40.0	U	11.2	40.0	50.0	ug/L
65794-96-9	3+4-Methylphenols	80.0	U	11.0	80.0	100	ug/L
67-72-1	Hexachloroethane	40.0	U	6.50	40.0	50.0	ug/L
98-95-3	Nitrobenzene	40.0	U	7.60	40.0	50.0	ug/L
87-68-3	Hexachlorobutadiene	40.0	U	5.40	40.0	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	40.0	U	5.10	40.0	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	40.0	U	6.20	40.0	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	40.0	U	12.2	40.0	50.0	ug/L
118-74-1	Hexachlorobenzene	40.0	U	5.20	40.0	50.0	ug/L
87-86-5	Pentachlorophenol	80.0	U	15.8	80.0	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	136		19 - 119		91%	SPK: 150
13127-88-3	Phenol-d6	131		10 - 130		87%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.8		44 - 120		97%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.9		44 - 119		96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	146		43 - 140		98%	SPK: 150
1718-51-0	Terphenyl-d14	99.2		50 - 134		99%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	154000	6.881				
1146-65-2	Naphthalene-d8	600000	8.157				
15067-26-2	Acenaphthene-d10	341000	9.916				
1517-22-2	Phenanthrene-d10	613000	11.398				
1719-03-5	Chrysene-d12	422000	14.039				
1520-96-3	Perylene-d12	358000	15.515				

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

Report of Analysis

Client:	Weston Solutions			Date Collected:	03/17/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169			Date Received:	03/17/25
Client Sample ID:	PB167133TB			SDG No.:	Q1569
Lab Sample ID:	PB167133TB			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141989.D	1	03/17/25 10:15	03/18/25 11:28	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141989.D
Acq On : 18 Mar 2025 11:28
Operator : RC/JU
Sample : PB167133TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167133TB

Quant Time: Mar 18 11:55:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

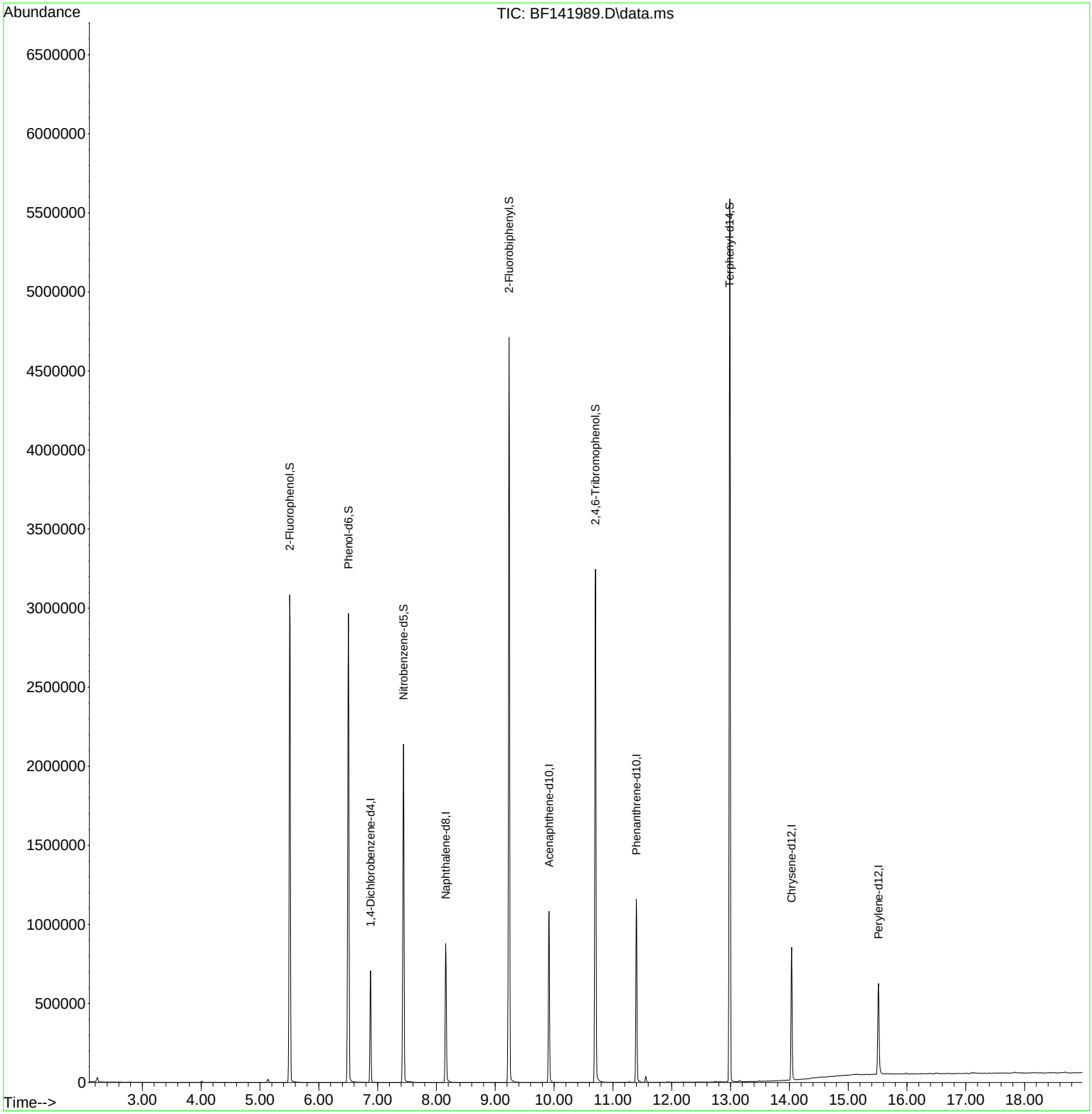
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	154147	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	600060	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	341484	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	613248	20.000	ng	0.00
76) Chrysene-d12	14.039	240	422319	20.000	ng	0.00
86) Perylene-d12	15.515	264	357882	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1254647	135.841	ng	0.01
7) Phenol-d6	6.504	99	1541900	131.118	ng	0.00
23) Nitrobenzene-d5	7.439	82	1032327	96.816	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	633580	146.250	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	2152833	95.877	ng	0.00
79) Terphenyl-d14	12.986	244	2832561	99.162	ng	0.00
Target Compounds						Qvalue

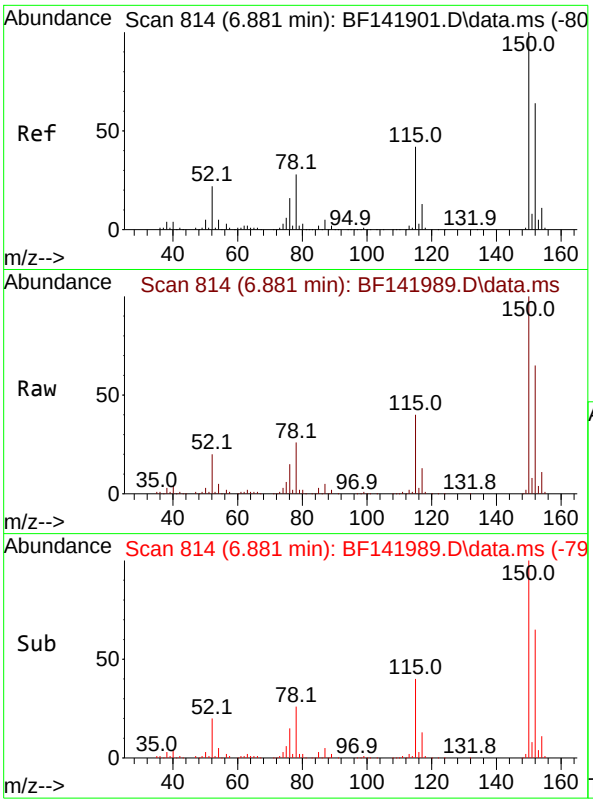
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141989.D
Acq On : 18 Mar 2025 11:28
Operator : RC/JU
Sample : PB167133TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167133TB

Quant Time: Mar 18 11:55:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration



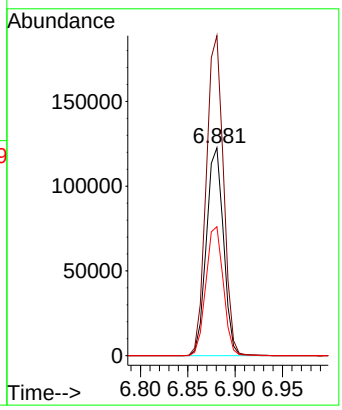


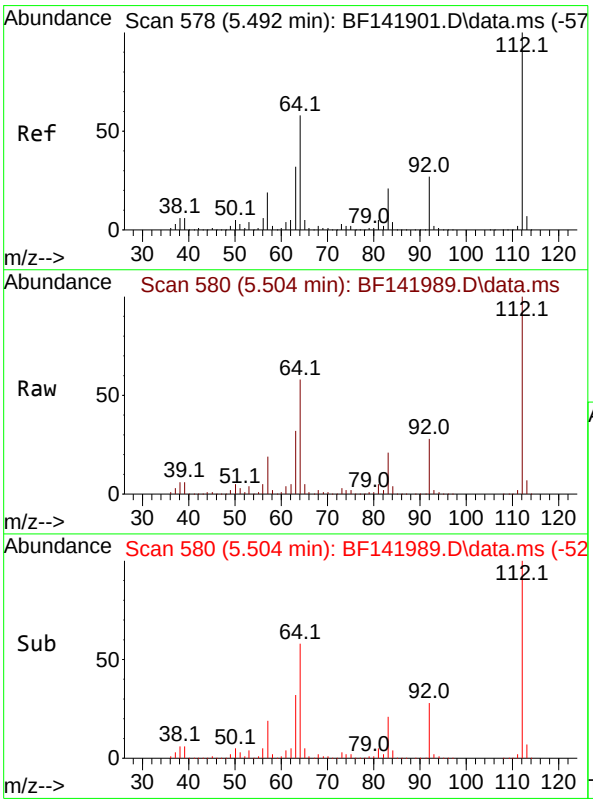
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Instrument :
BNA_F
ClientSampleId :
PB167133TB

Tgt Ion:152 Resp: 154147

Ion	Ratio	Lower	Upper
152	100		
150	154.0	127.4	191.2
115	62.1	51.9	77.9

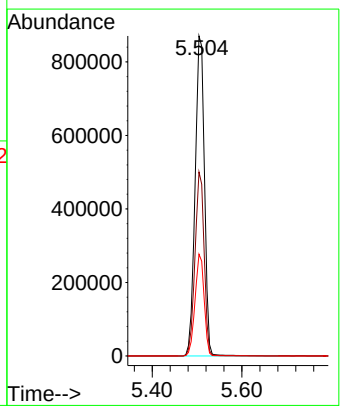


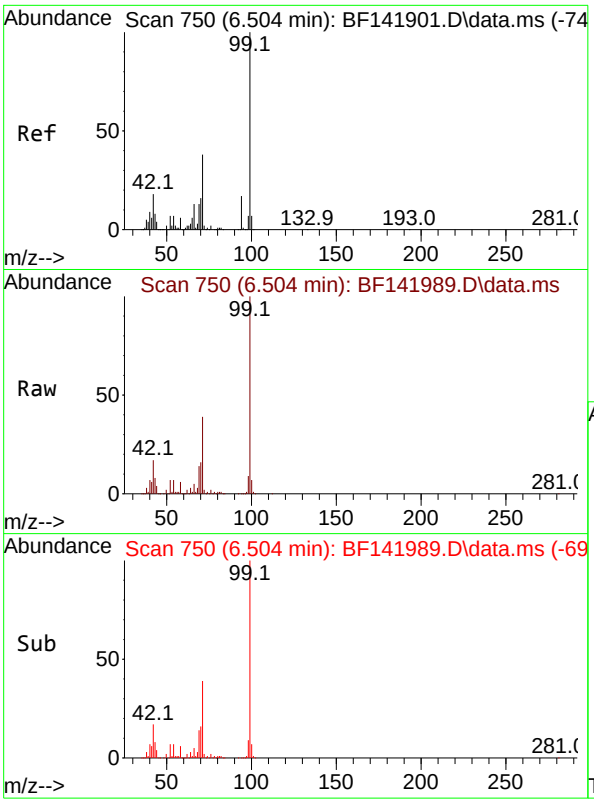


#5
2-Fluorophenol
Concen: 135.841 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Tgt Ion:112 Resp: 1254647

Ion	Ratio	Lower	Upper
112	100		
64	57.5	46.5	69.7
63	31.8	25.4	38.2



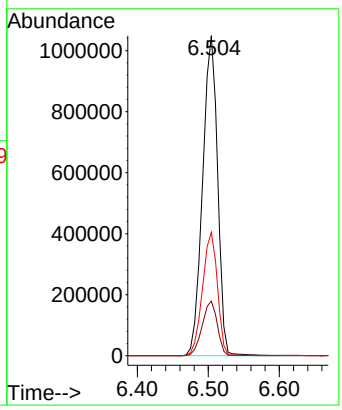


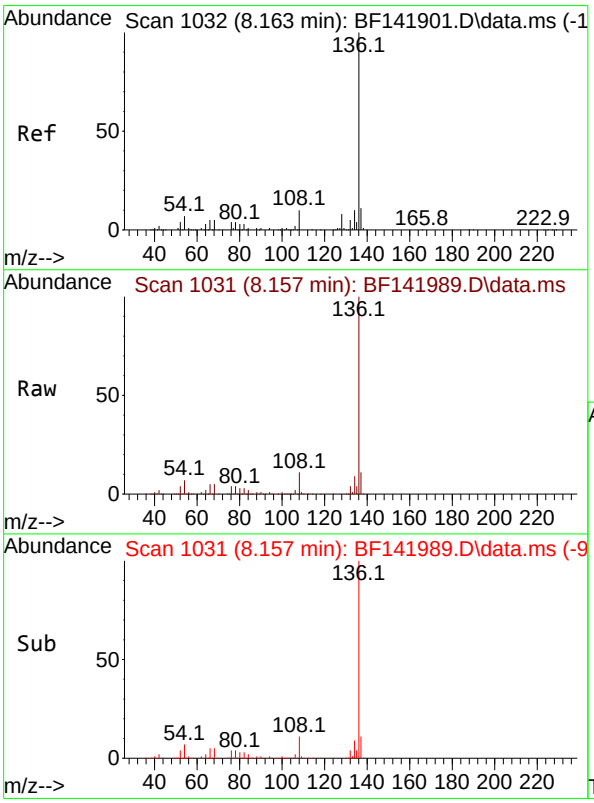
#7
Phenol-d6
Concen: 131.118 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Instrument :
BNA_F
ClientSampleId :
PB167133TB

Tgt Ion: 99 Resp: 1541900

Ion	Ratio	Lower	Upper
99	100		
42	17.1	14.6	21.8
71	38.6	30.8	46.2

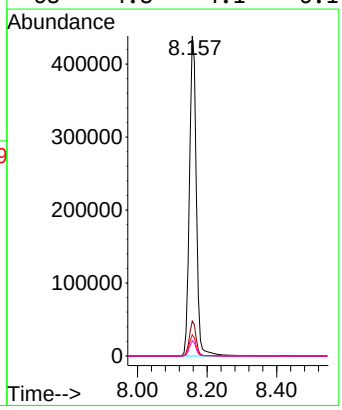


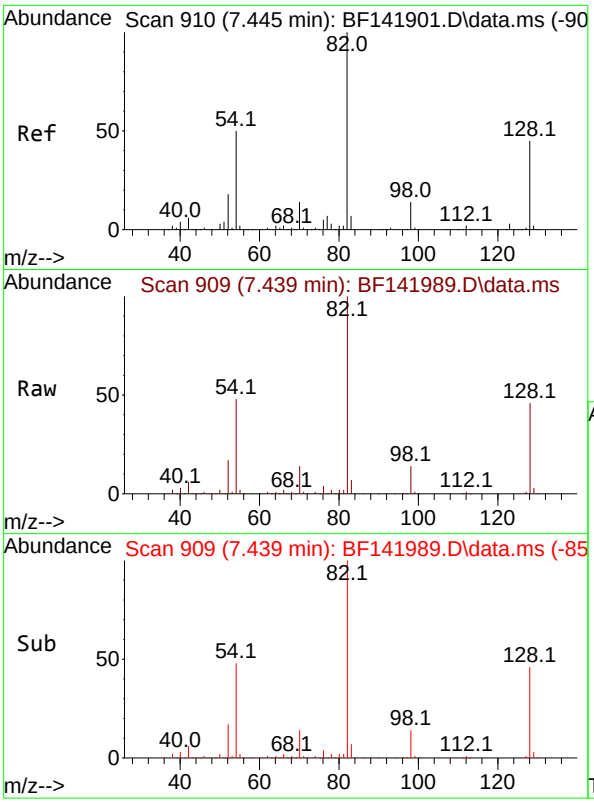


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Tgt Ion:136 Resp: 600060

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	6.6	5.8	8.8
68	4.8	4.1	6.1



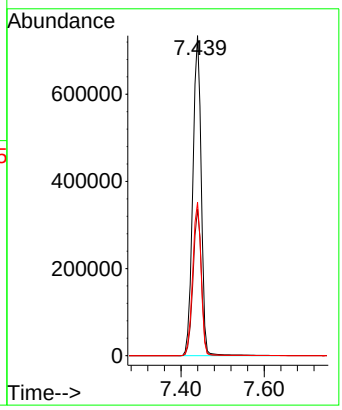


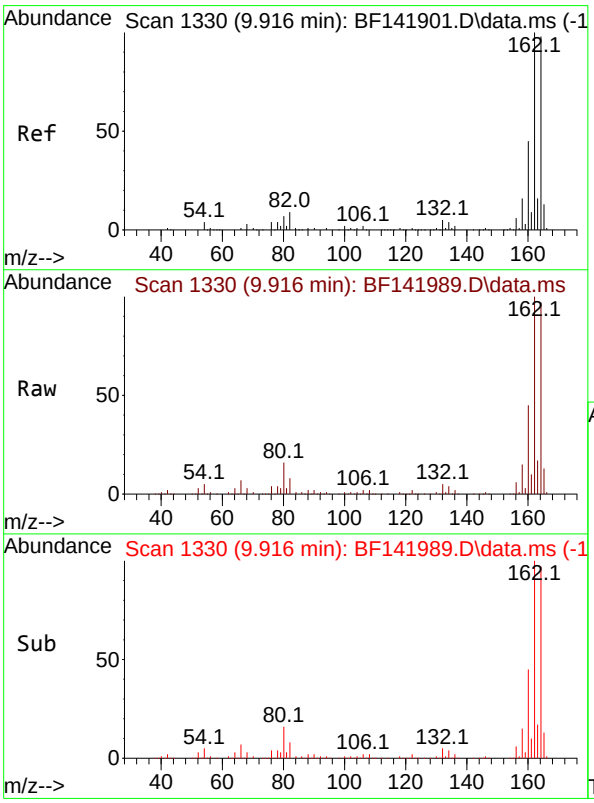
#23
Nitrobenzene-d5
Concen: 96.816 ng
RT: 7.439 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Instrument :
BNA_F
ClientSampleId :
PB167133TB

Tgt Ion: 82 Resp: 1032327

Ion	Ratio	Lower	Upper
82	100		
128	45.8	36.0	54.0
54	48.0	39.6	59.4

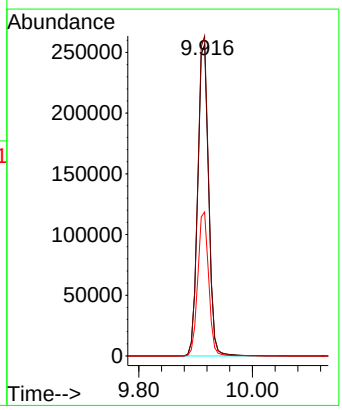


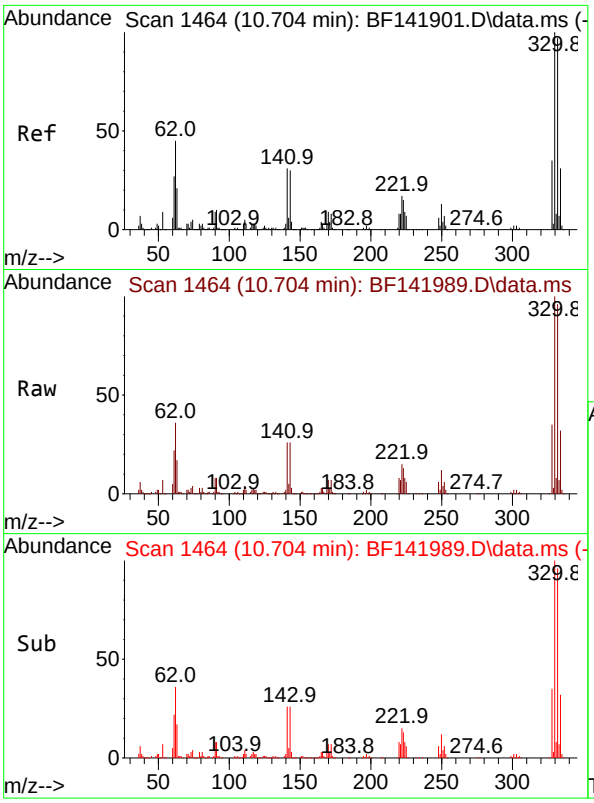


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Tgt Ion:164 Resp: 341484

Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.8	122.6
160	46.2	36.7	55.1



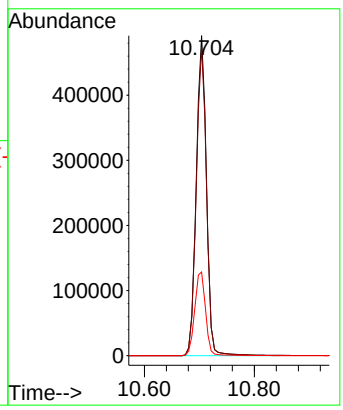


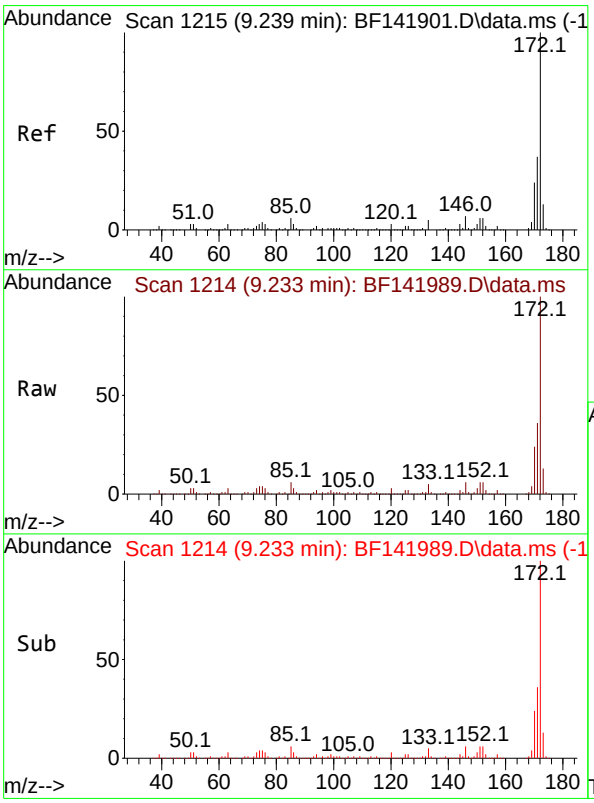
#42
2,4,6-Tribromophenol
Concen: 146.250 ng
RT: 10.704 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Instrument :
BNA_F
ClientSampleId :
PB167133TB

Tgt Ion:330 Resp: 633580

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.6	116.4
141	27.9	24.7	37.1

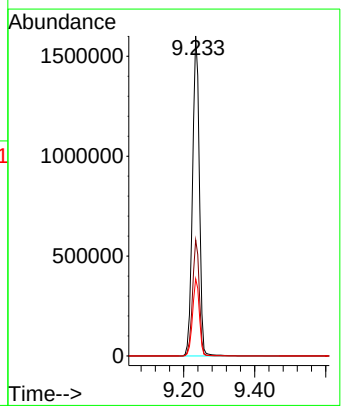


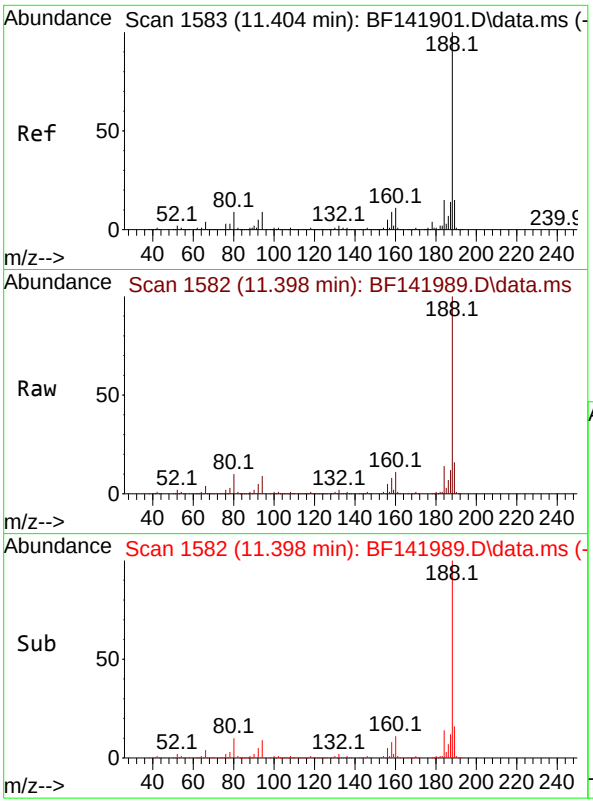


#45
2-Fluorobiphenyl
Concen: 95.877 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Tgt Ion:172 Resp: 2152833

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.3	43.9
170	24.1	19.4	29.0



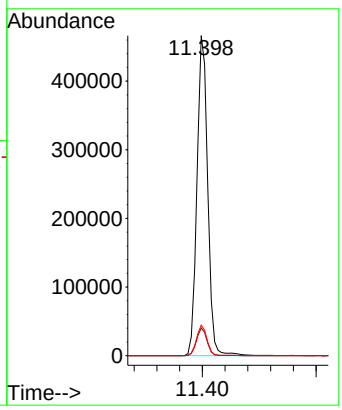


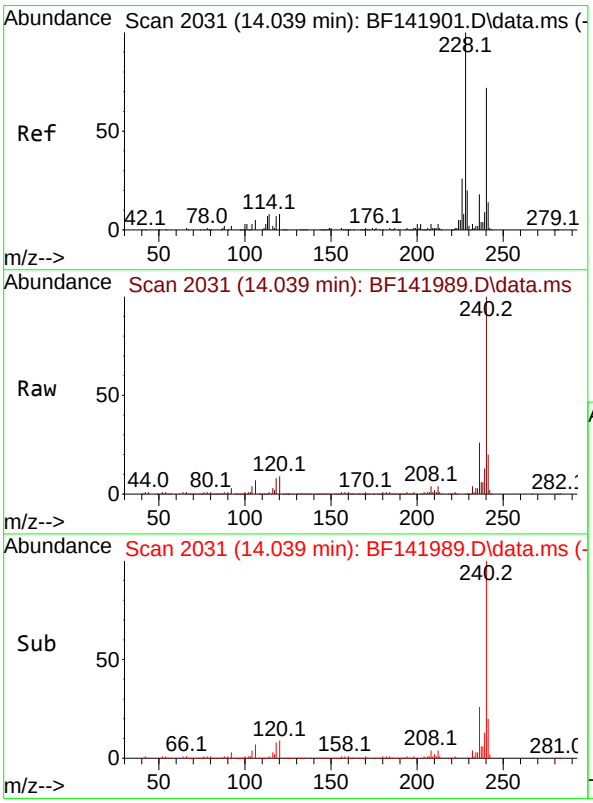
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Instrument :
BNA_F
ClientSampleId :
PB167133TB

Tgt Ion:188 Resp: 613248

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.8	10.2
80	9.5	7.6	11.4

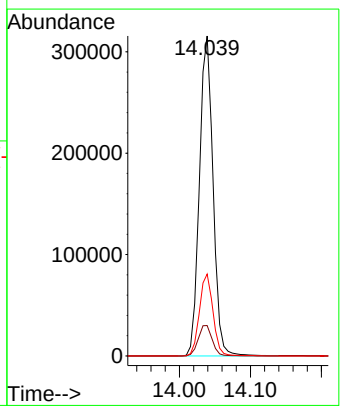


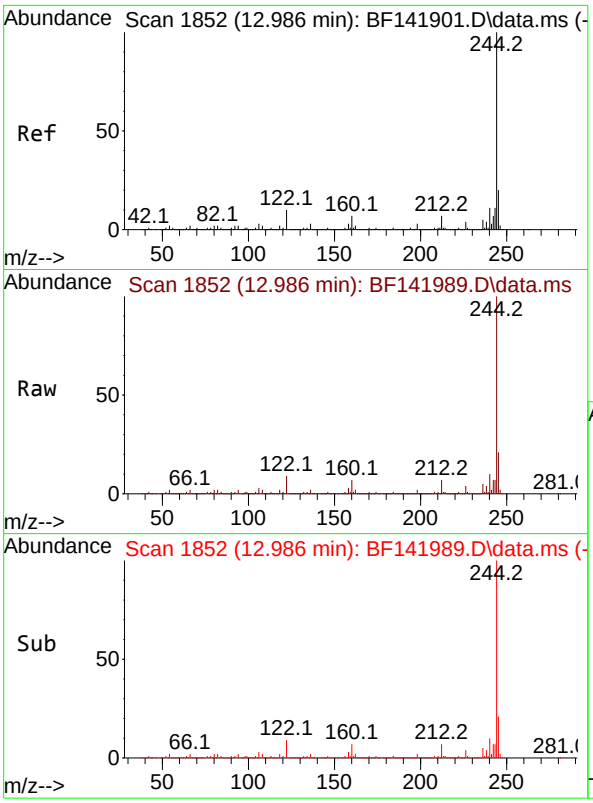


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Tgt Ion:240 Resp: 422319

Ion	Ratio	Lower	Upper
240	100		
120	9.5	8.4	12.6
236	25.6	20.5	30.7



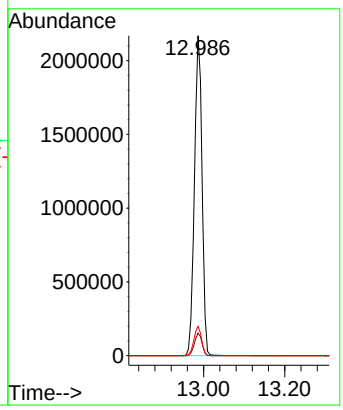


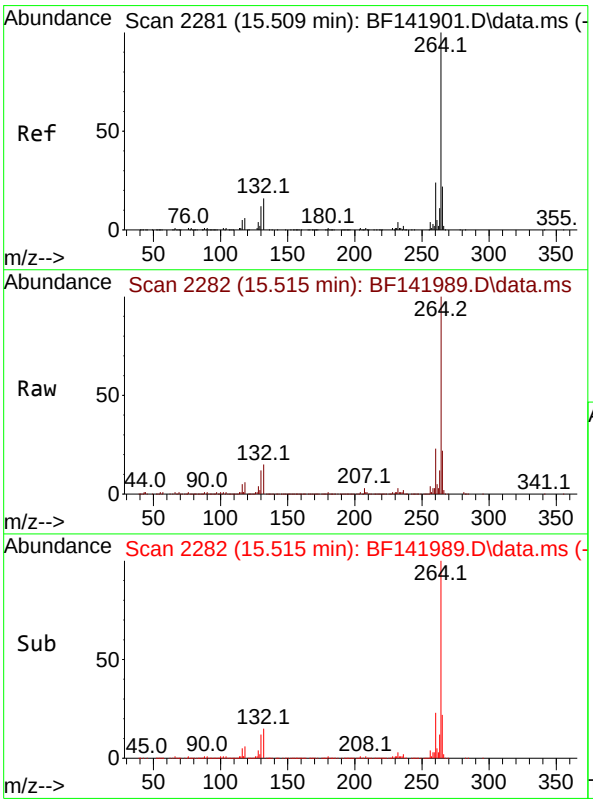
#79
Terphenyl-d14
Concen: 99.162 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Instrument :
BNA_F
ClientSampleId :
PB167133TB

Tgt Ion:244 Resp: 2832561

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	9.2	7.7	11.5

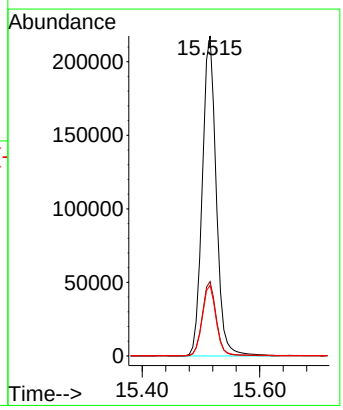




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF141989.D
Acq: 18 Mar 2025 11:28

Tgt Ion:264 Resp: 357882

Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.1	28.7
265	22.0	17.5	26.3



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

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/14/25
Client Sample ID:	TAP-IDW-SOIL-031325-01	SDG No.:	Q1569
Lab Sample ID:	Q1569-02	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141990.D	1	03/17/25 10:15	03/18/25 12:03	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	40.0	U	12.8	40.0	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	40.0	U	5.30	40.0	50.0	ug/L
95-48-7	2-Methylphenol	40.0	U	11.2	40.0	50.0	ug/L
65794-96-9	3+4-Methylphenols	80.0	U	11.0	80.0	100	ug/L
67-72-1	Hexachloroethane	40.0	U	6.50	40.0	50.0	ug/L
98-95-3	Nitrobenzene	40.0	U	7.60	40.0	50.0	ug/L
87-68-3	Hexachlorobutadiene	40.0	U	5.40	40.0	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	40.0	U	5.10	40.0	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	40.0	U	6.20	40.0	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	40.0	U	12.2	40.0	50.0	ug/L
118-74-1	Hexachlorobenzene	40.0	U	5.20	40.0	50.0	ug/L
87-86-5	Pentachlorophenol	80.0	U	15.8	80.0	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	138		19 - 119		92%	SPK: 150
13127-88-3	Phenol-d6	124		10 - 130		83%	SPK: 150
4165-60-0	Nitrobenzene-d5	104		44 - 120		104%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		44 - 119		100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	174		43 - 140		116%	SPK: 150
1718-51-0	Terphenyl-d14	103		50 - 134		103%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	146000	6.881				
1146-65-2	Naphthalene-d8	574000	8.157				
15067-26-2	Acenaphthene-d10	334000	9.91				
1517-22-2	Phenanthrene-d10	612000	11.398				
1719-03-5	Chrysene-d12	453000	14.039				
1520-96-3	Perylene-d12	342000	15.515				

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/14/25
Client Sample ID:	TAP-IDW-SOIL-031325-01	SDG No.:	Q1569
Lab Sample ID:	Q1569-02	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141990.D	1	03/17/25 10:15	03/18/25 12:03	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141990.D
Acq On : 18 Mar 2025 12:03
Operator : RC/JU
Sample : Q1569-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-01

Quant Time: Mar 18 12:31:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

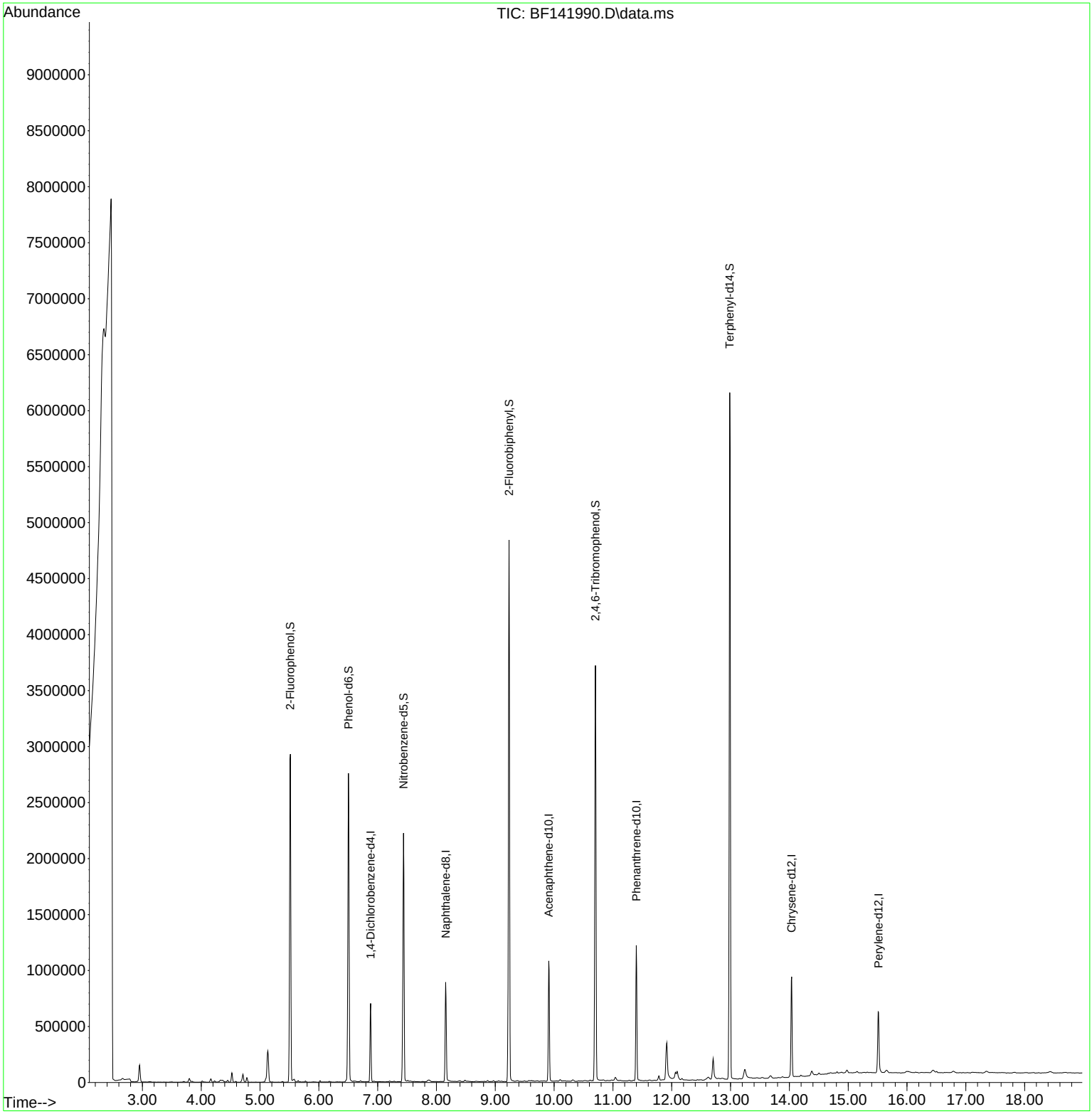
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	146072	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	574336	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	334363	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	612194	20.000	ng	0.00
76) Chrysene-d12	14.039	240	452555	20.000	ng	0.00
86) Perylene-d12	15.515	264	341952	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1207267	137.937	ng	0.02
7) Phenol-d6	6.504	99	1384904	124.278	ng	0.00
23) Nitrobenzene-d5	7.439	82	1058016	103.669	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	737139	173.778	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	2206121	100.343	ng	0.00
79) Terphenyl-d14	12.986	244	3155849	103.099	ng	0.00
Target Compounds						Qvalue

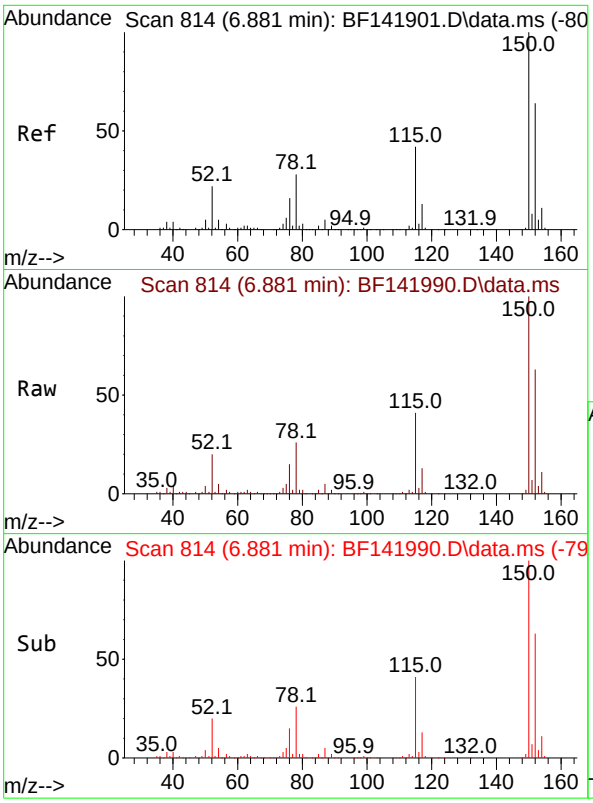
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141990.D
Acq On : 18 Mar 2025 12:03
Operator : RC/JU
Sample : Q1569-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-01

Quant Time: Mar 18 12:31:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration



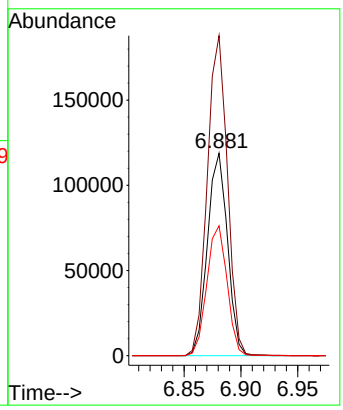


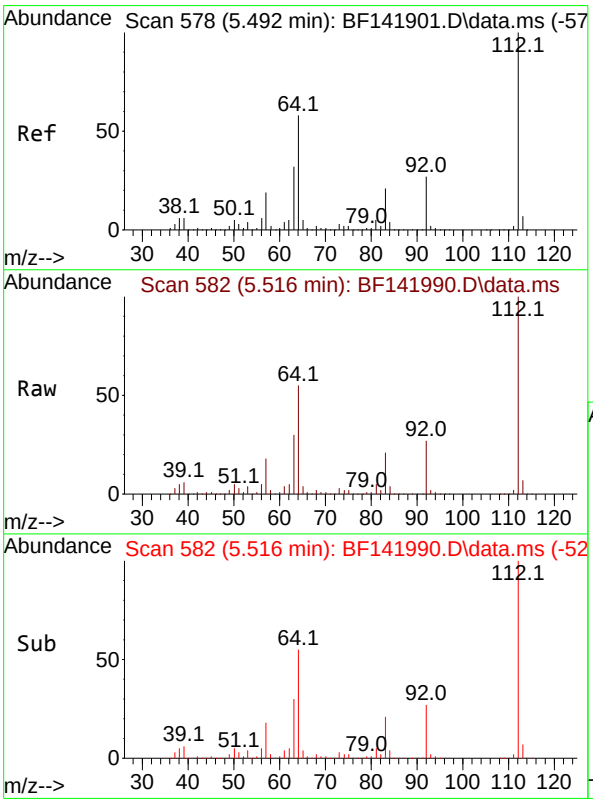
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-01

Tgt Ion:152 Resp: 146072

Ion	Ratio	Lower	Upper
152	100		
150	158.1	127.4	191.2
115	64.2	51.9	77.9

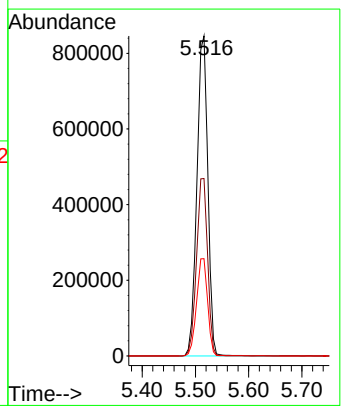


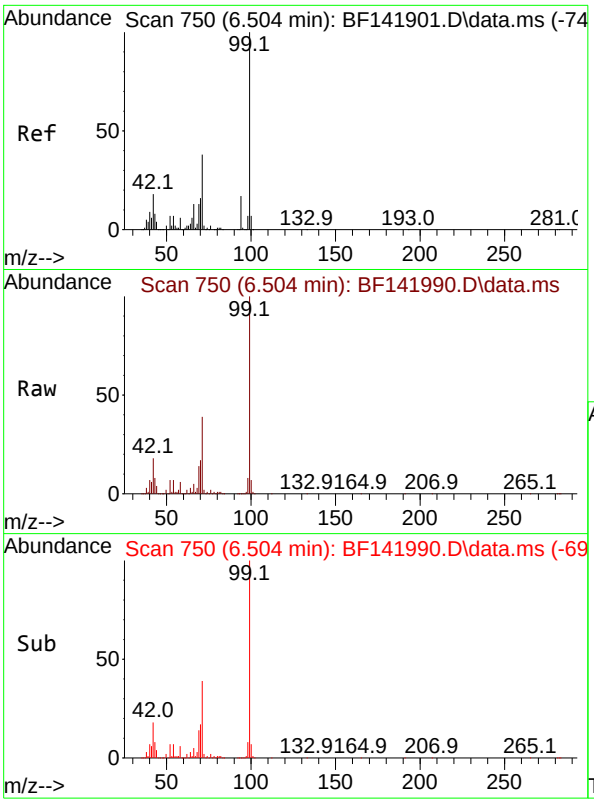


#5
2-Fluorophenol
Concen: 137.937 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.024 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Tgt Ion:112 Resp: 1207267

Ion	Ratio	Lower	Upper
112	100		
64	55.5	46.5	69.7
63	30.4	25.4	38.2



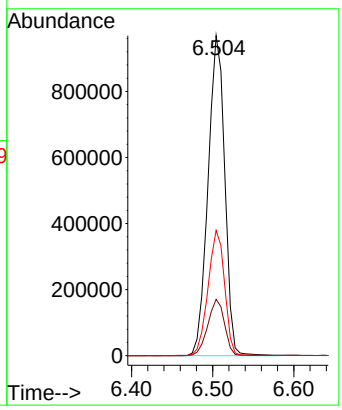


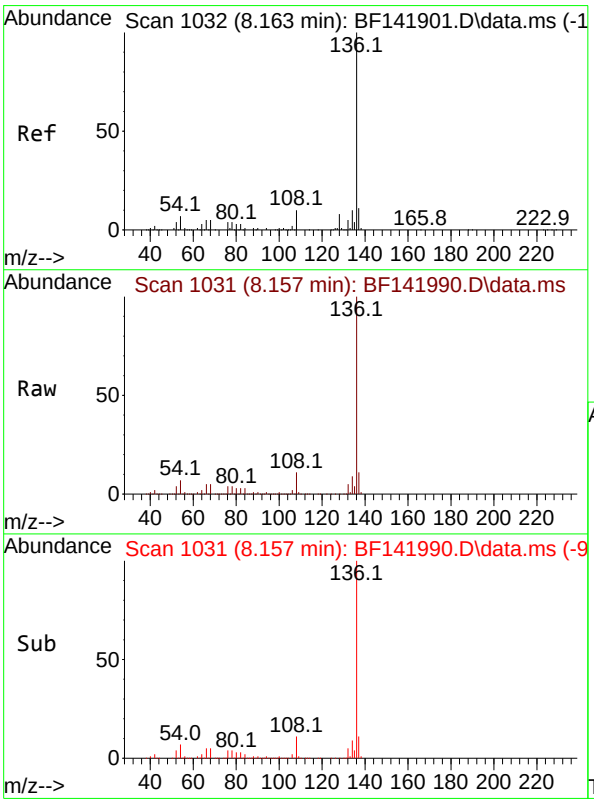
#7
Phenol-d6
Concen: 124.278 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-01

Tgt Ion: 99 Resp: 1384904

Ion	Ratio	Lower	Upper
99	100		
42	17.6	14.6	21.8
71	39.1	30.8	46.2

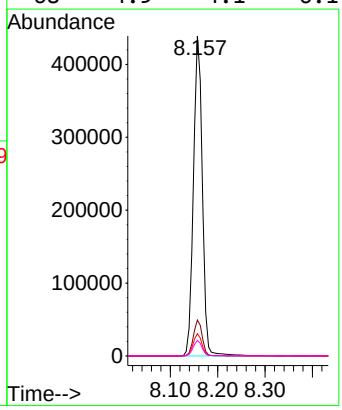


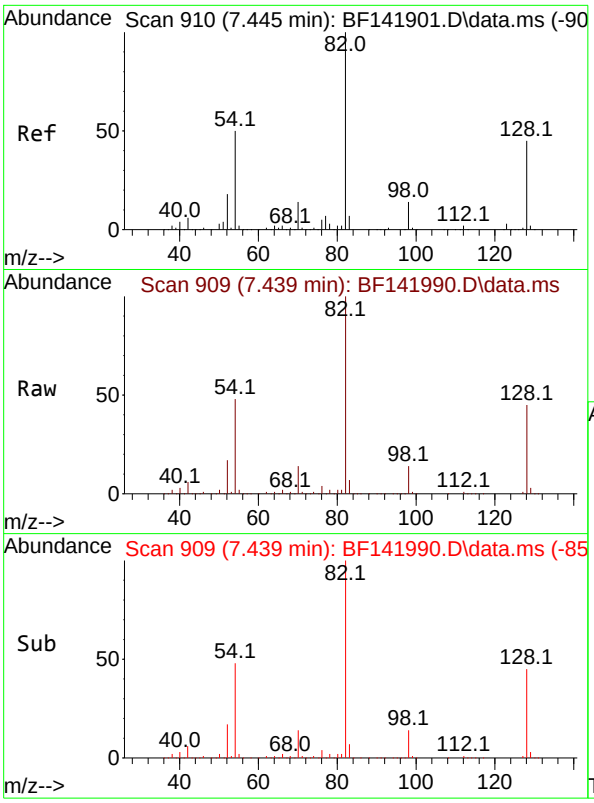


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Tgt Ion:136 Resp: 574336

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.8	13.2
54	7.0	5.8	8.8
68	4.9	4.1	6.1



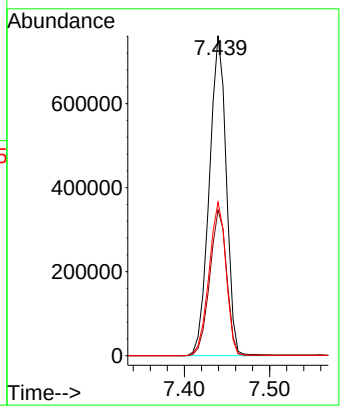


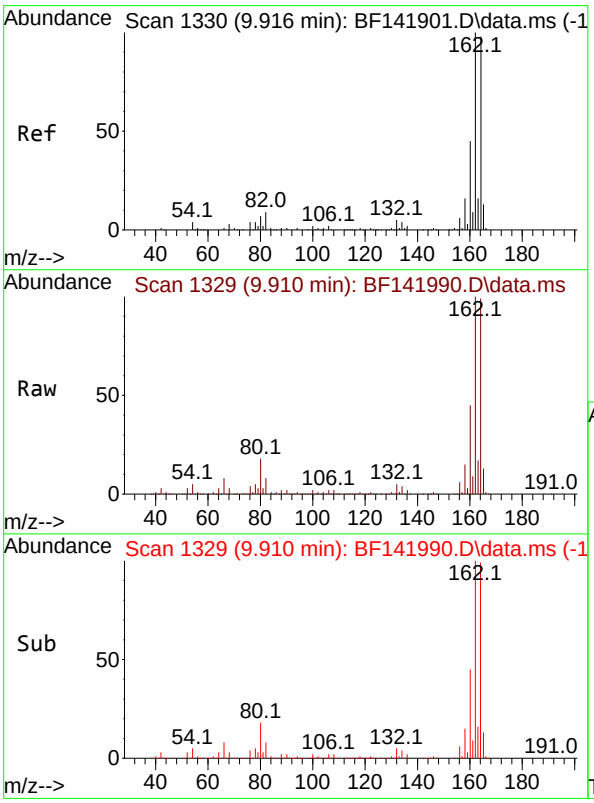
#23
Nitrobenzene-d5
Concen: 103.669 ng
RT: 7.439 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-01

Tgt Ion: 82 Resp: 1058016

Ion	Ratio	Lower	Upper
82	100		
128	45.5	36.0	54.0
54	48.0	39.6	59.4

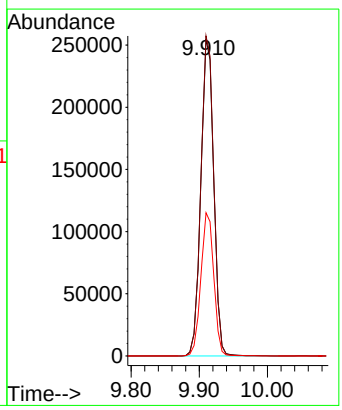


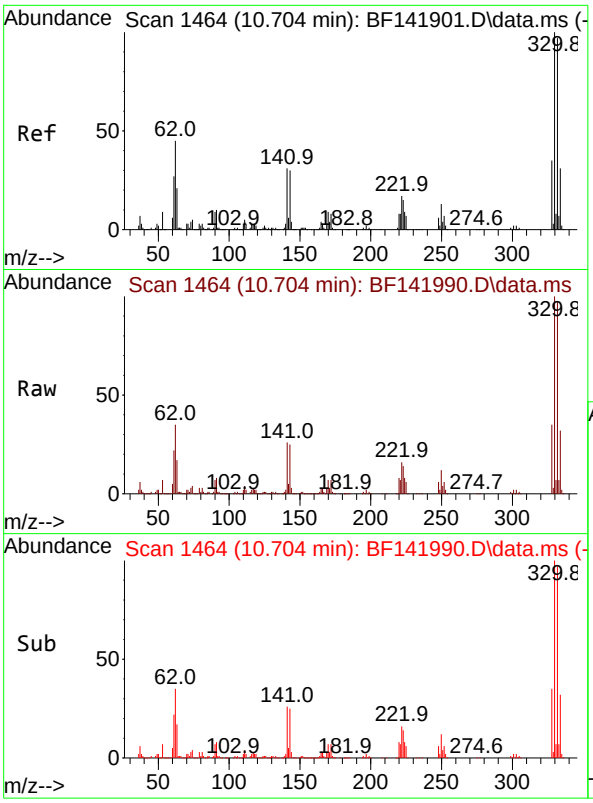


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Tgt Ion:164 Resp: 334363

Ion	Ratio	Lower	Upper
164	100		
162	101.0	81.8	122.6
160	45.2	36.7	55.1



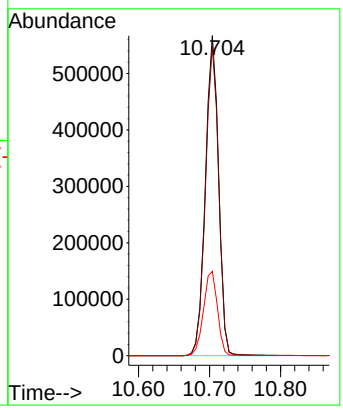


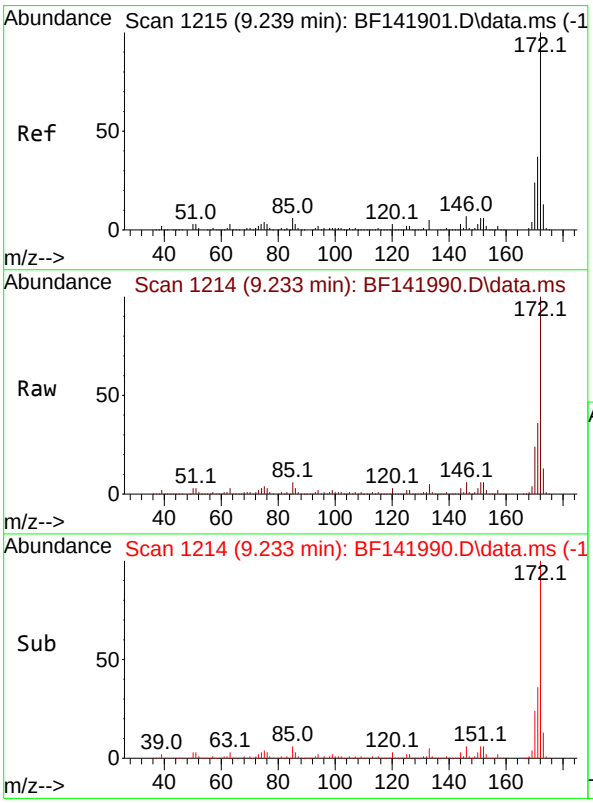
#42
2,4,6-Tribromophenol
Concen: 173.778 ng
RT: 10.704 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-01

Tgt Ion:330 Resp: 737139

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.6	116.4
141	27.9	24.7	37.1

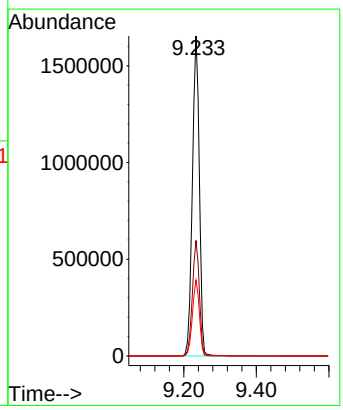


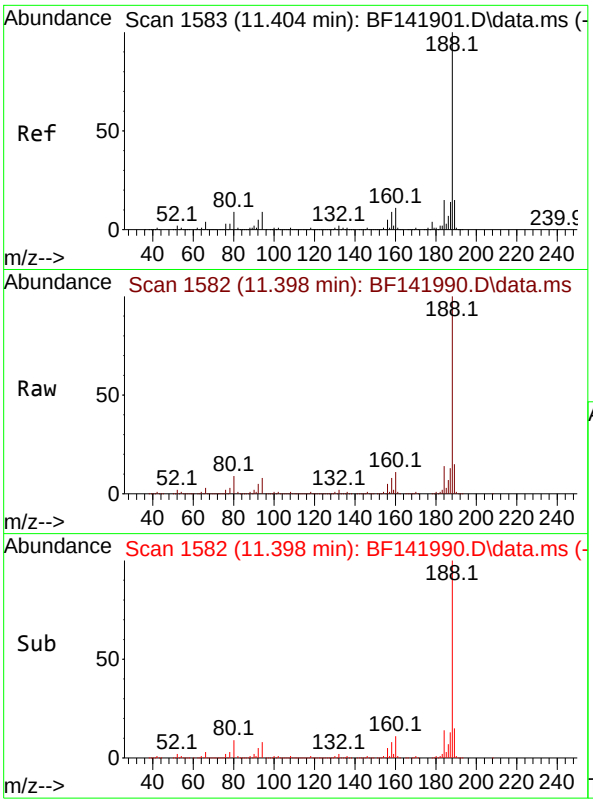


#45
2-Fluorobiphenyl
Concen: 100.343 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Tgt Ion:172 Resp: 2206121

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.3	43.9
170	23.7	19.4	29.0



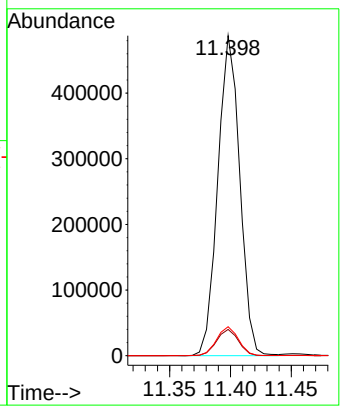


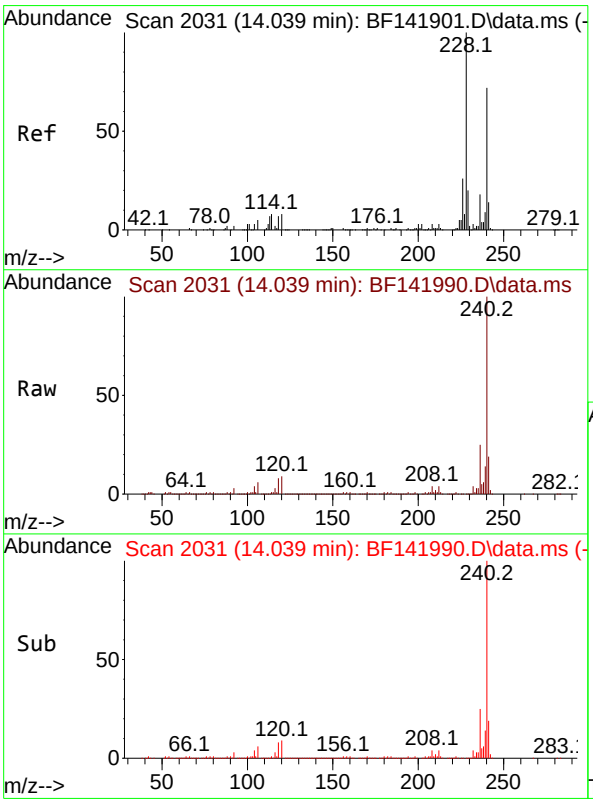
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-01

Tgt Ion:188 Resp: 612194

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.8	10.2
80	9.1	7.6	11.4

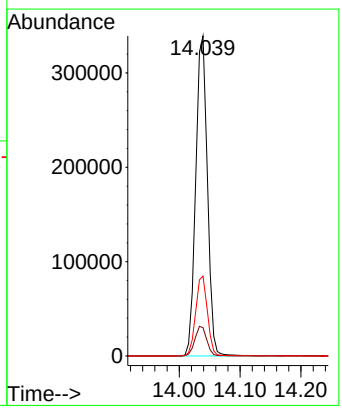


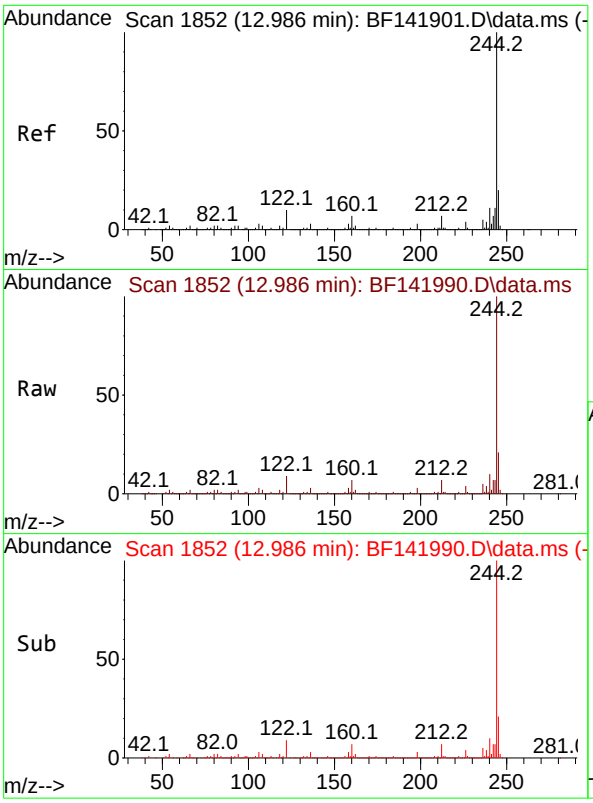


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Tgt Ion:240 Resp: 452555

Ion	Ratio	Lower	Upper
240	100		
120	8.8	8.4	12.6
236	25.0	20.5	30.7



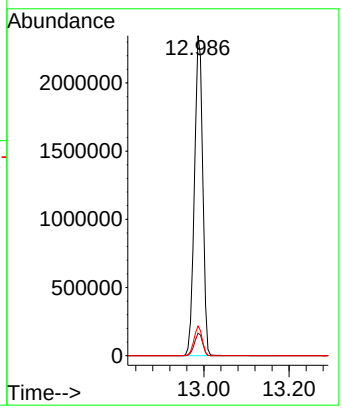


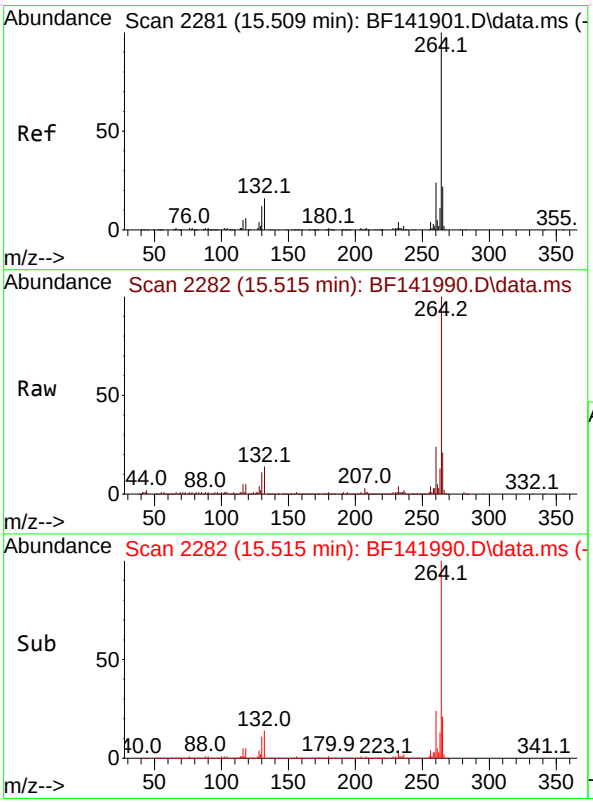
#79
Terphenyl-d14
Concen: 103.099 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-01

Tgt Ion:244 Resp: 3155849

Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	9.2	7.7	11.5

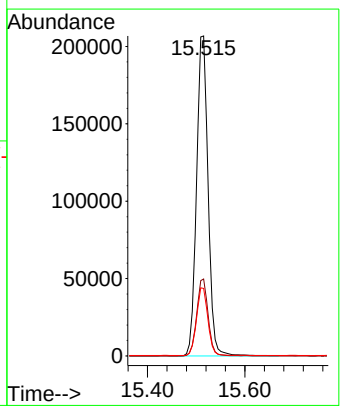




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF141990.D
Acq: 18 Mar 2025 12:03

Tgt Ion:264 Resp: 341952

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.1	28.7
265	21.1	17.5	26.3



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

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/14/25
Client Sample ID:	TAP-IDW-SOIL-031325-02	SDG No.:	Q1569
Lab Sample ID:	Q1569-05	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141991.D	1	03/17/25 10:15	03/18/25 12:32	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	40.0	U	12.8	40.0	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	40.0	U	5.30	40.0	50.0	ug/L
95-48-7	2-Methylphenol	40.0	U	11.2	40.0	50.0	ug/L
65794-96-9	3+4-Methylphenols	80.0	U	11.0	80.0	100	ug/L
67-72-1	Hexachloroethane	40.0	U	6.50	40.0	50.0	ug/L
98-95-3	Nitrobenzene	40.0	U	7.60	40.0	50.0	ug/L
87-68-3	Hexachlorobutadiene	40.0	U	5.40	40.0	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	40.0	U	5.10	40.0	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	40.0	U	6.20	40.0	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	40.0	U	12.2	40.0	50.0	ug/L
118-74-1	Hexachlorobenzene	40.0	U	5.20	40.0	50.0	ug/L
87-86-5	Pentachlorophenol	80.0	U	15.8	80.0	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	133		19 - 119		89%	SPK: 150
13127-88-3	Phenol-d6	123		10 - 130		82%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.0		44 - 120		98%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.0		44 - 119		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	169		43 - 140		113%	SPK: 150
1718-51-0	Terphenyl-d14	104		50 - 134		104%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	148000	6.881				
1146-65-2	Naphthalene-d8	587000	8.157				
15067-26-2	Acenaphthene-d10	339000	9.91				
1517-22-2	Phenanthrene-d10	630000	11.398				
1719-03-5	Chrysene-d12	432000	14.039				
1520-96-3	Perylene-d12	389000	15.509				

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/14/25
Client Sample ID:	TAP-IDW-SOIL-031325-02	SDG No.:	Q1569
Lab Sample ID:	Q1569-05	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141991.D	1	03/17/25 10:15	03/18/25 12:32	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141991.D
Acq On : 18 Mar 2025 12:32
Operator : RC/JU
Sample : Q1569-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-02

Quant Time: Mar 18 12:55:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

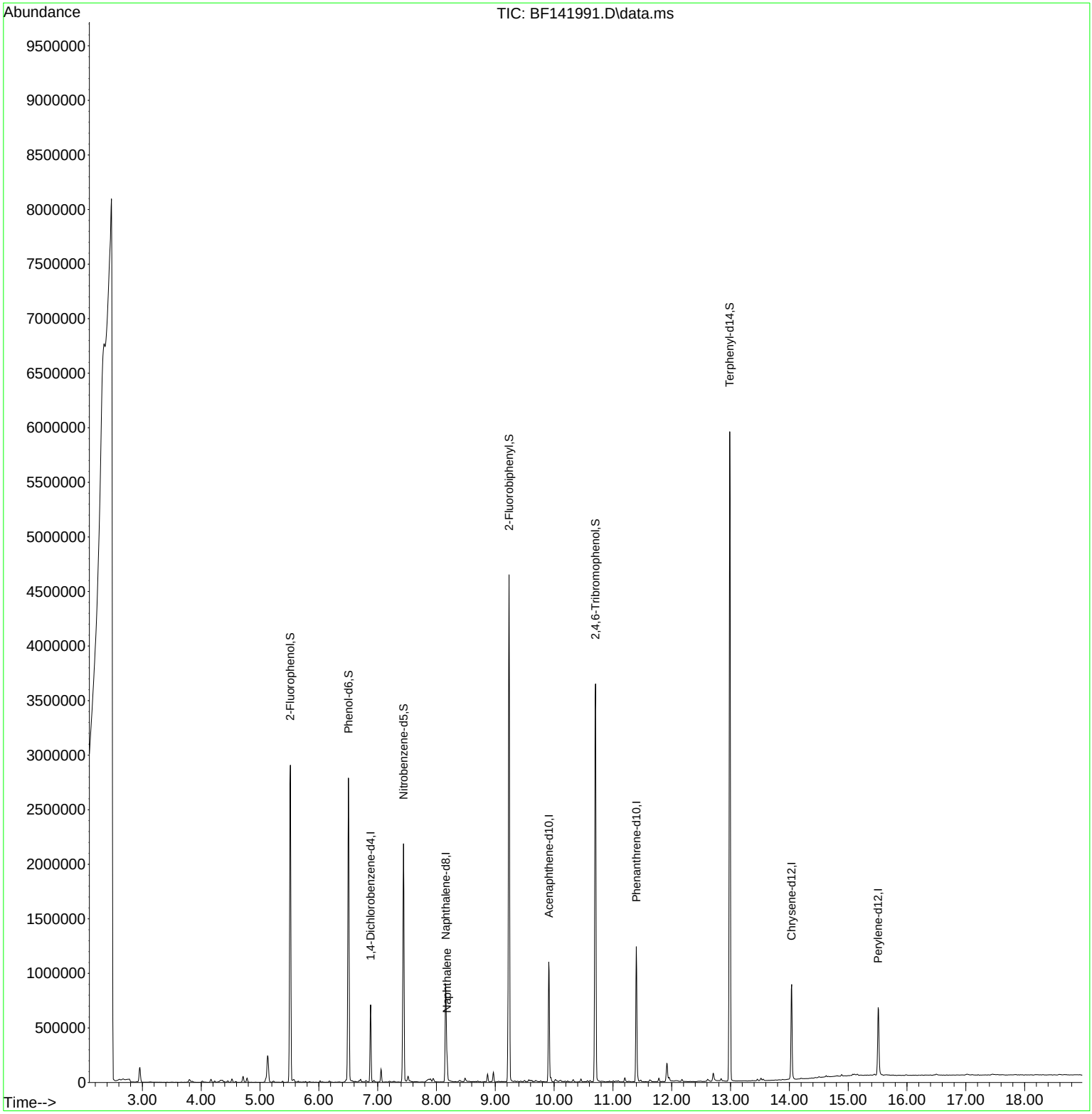
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	148424	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	586714	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	339225	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	629815	20.000	ng	0.00
76) Chrysene-d12	14.039	240	432125	20.000	ng	0.00
86) Perylene-d12	15.509	264	388734	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1182616	132.980	ng	0.02
7) Phenol-d6	6.504	99	1393816	123.096	ng	0.00
23) Nitrobenzene-d5	7.439	82	1021763	98.005	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	728811	169.352	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	2118296	94.967	ng	0.00
79) Terphenyl-d14	12.986	244	3048268	104.292	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.181	128	124615	4.135	ng	98

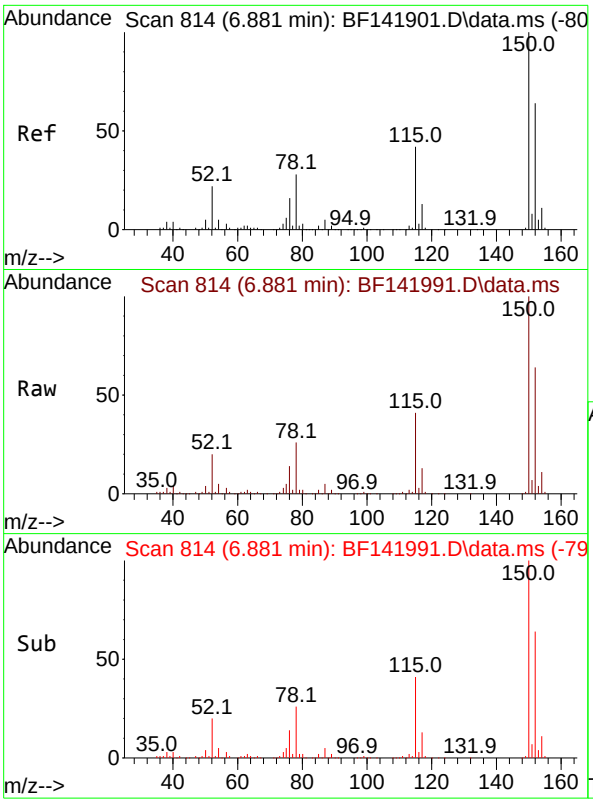
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141991.D
Acq On : 18 Mar 2025 12:32
Operator : RC/JU
Sample : Q1569-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-02

Quant Time: Mar 18 12:55:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration



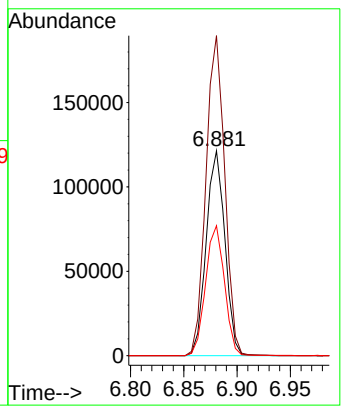


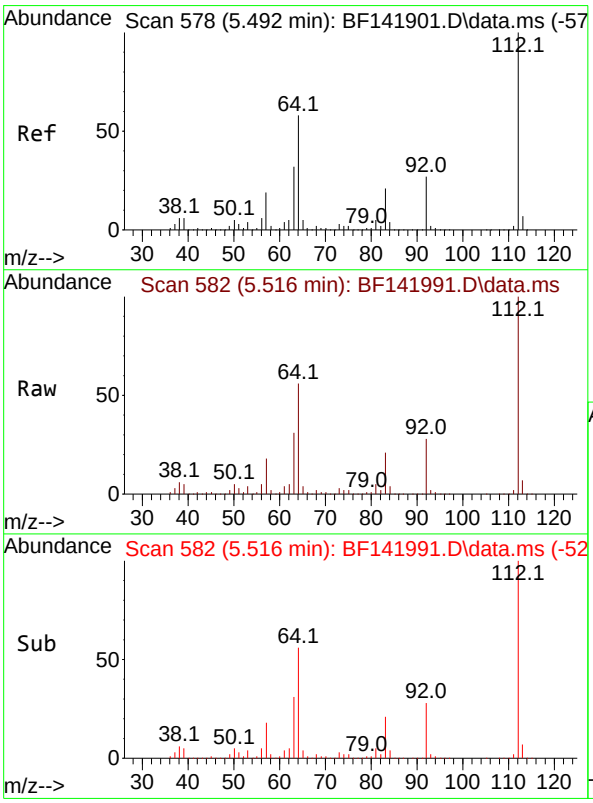
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-02

Tgt Ion:152 Resp: 148424

Ion	Ratio	Lower	Upper
152	100		
150	156.2	127.4	191.2
115	63.5	51.9	77.9

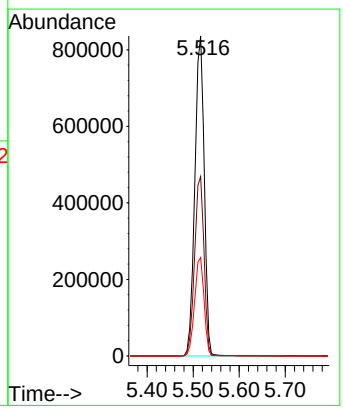


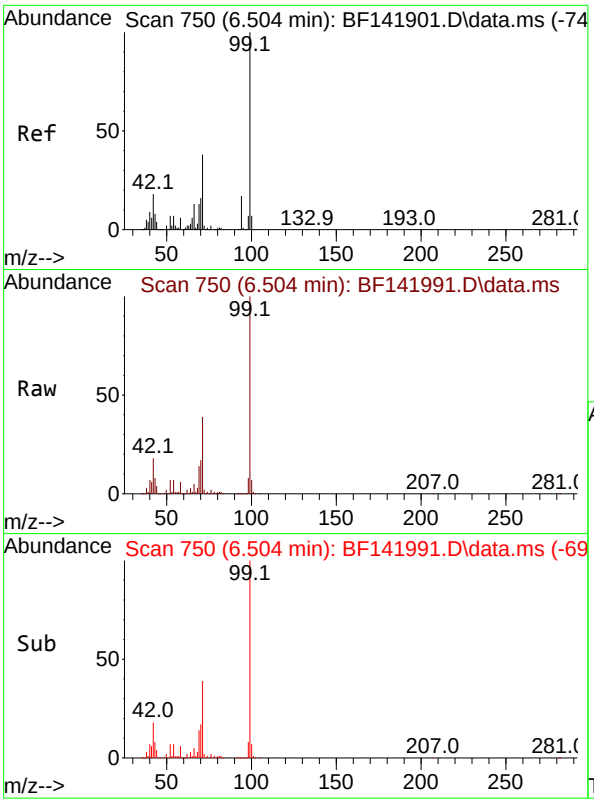


#5
2-Fluorophenol
Concen: 132.980 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.024 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Tgt Ion:112 Resp: 1182616

Ion	Ratio	Lower	Upper
112	100		
64	56.0	46.5	69.7
63	30.8	25.4	38.2



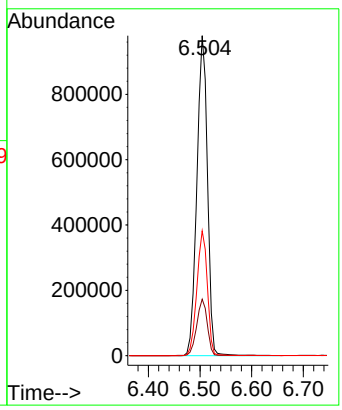


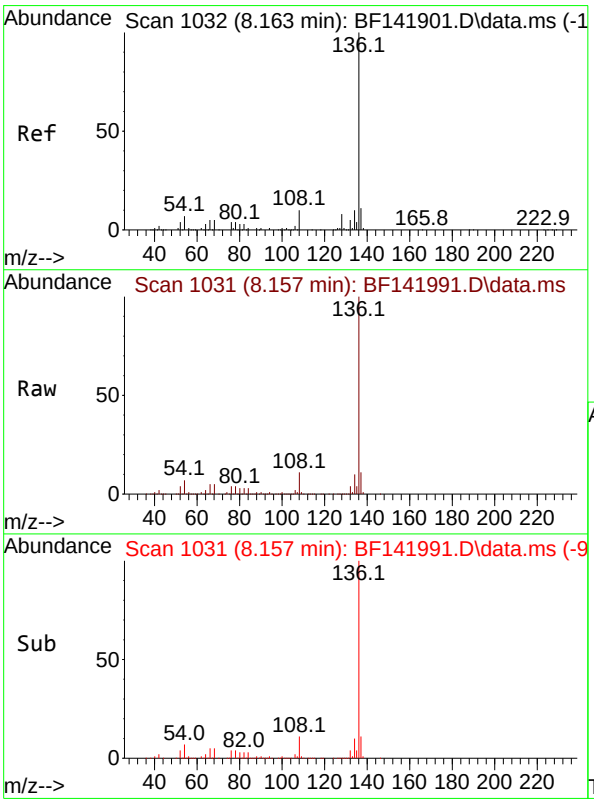
#7
Phenol-d6
Concen: 123.096 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-02

Tgt Ion: 99 Resp: 1393816

Ion	Ratio	Lower	Upper
99	100		
42	17.7	14.6	21.8
71	39.0	30.8	46.2

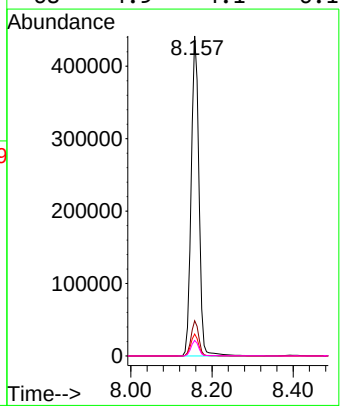


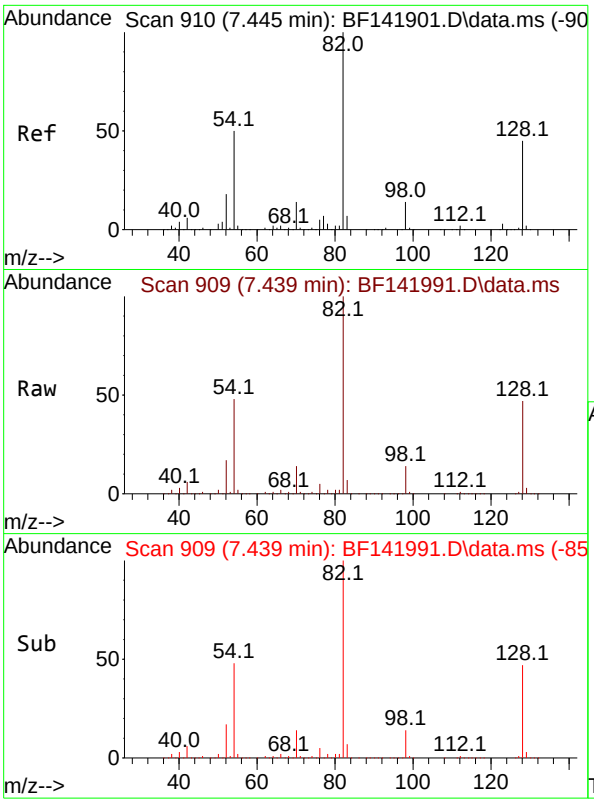


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Tgt Ion:136 Resp: 586714

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	6.9	5.8	8.8
68	4.9	4.1	6.1



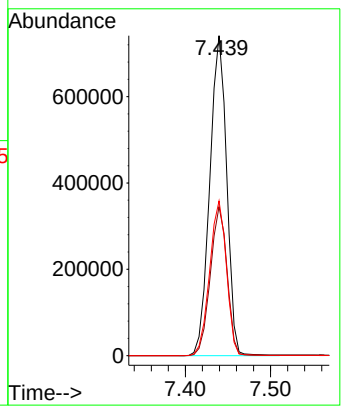


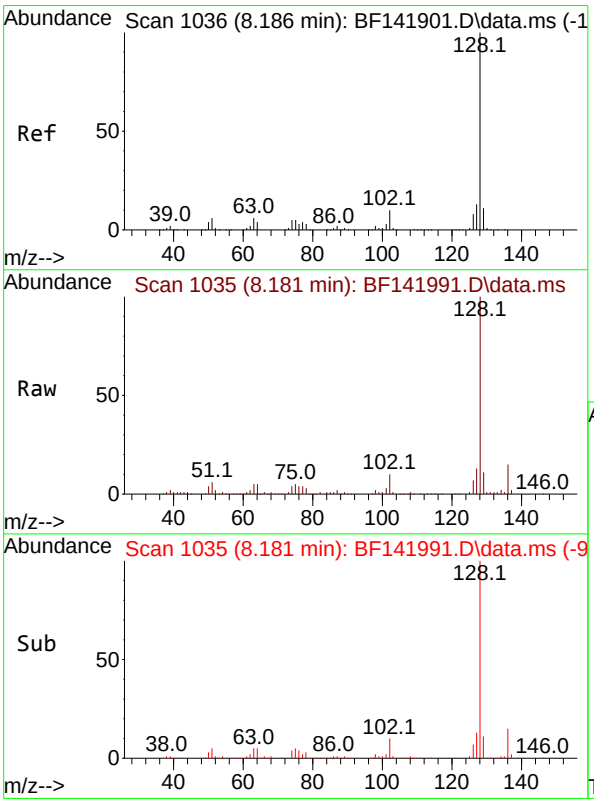
#23
Nitrobenzene-d5
Concen: 98.005 ng
RT: 7.439 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-02

Tgt Ion: 82 Resp: 1021763

Ion	Ratio	Lower	Upper
82	100		
128	46.6	36.0	54.0
54	48.4	39.6	59.4

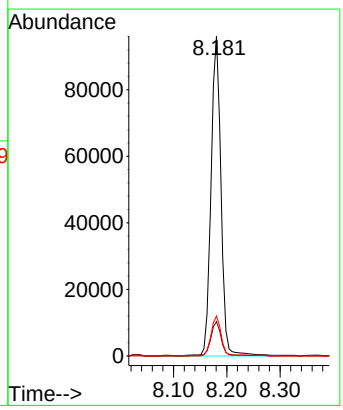


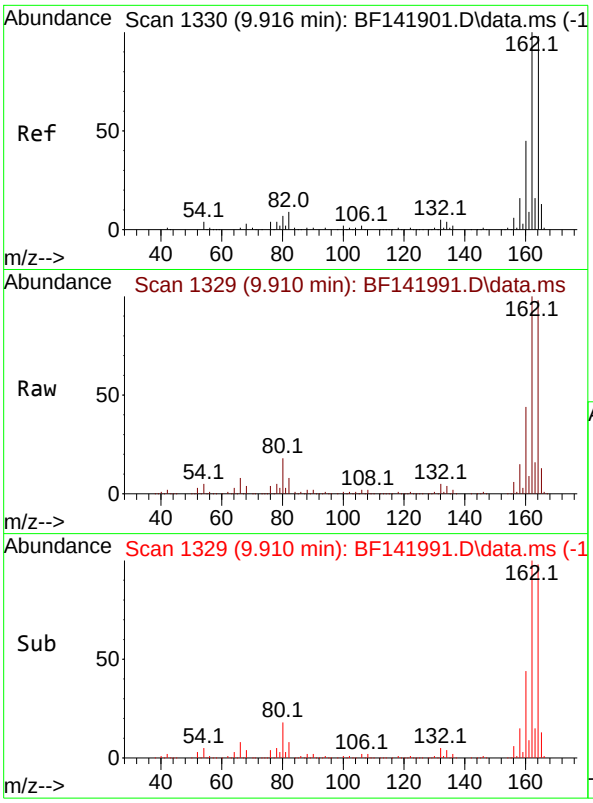


#31
Naphthalene
Concen: 4.135 ng
RT: 8.181 min Scan# 1035
Delta R.T. -0.006 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Tgt Ion:128 Resp: 124615

Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.0	13.6
127	12.5	10.8	16.2



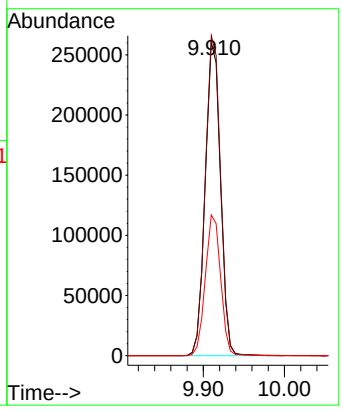


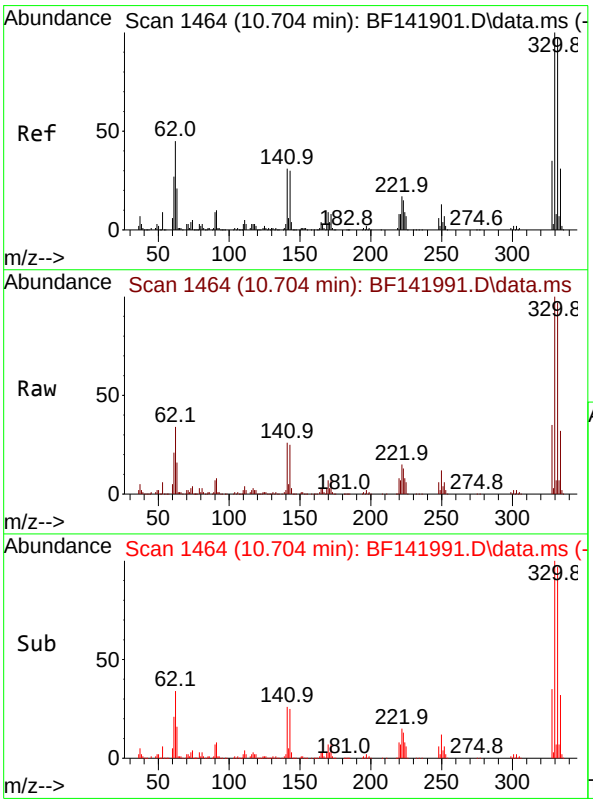
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-02

Tgt Ion:164 Resp: 339225

Ion	Ratio	Lower	Upper
164	100		
162	102.0	81.8	122.6
160	44.9	36.7	55.1

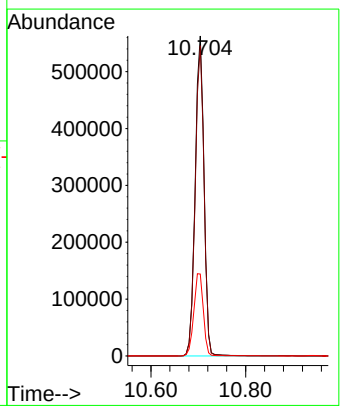


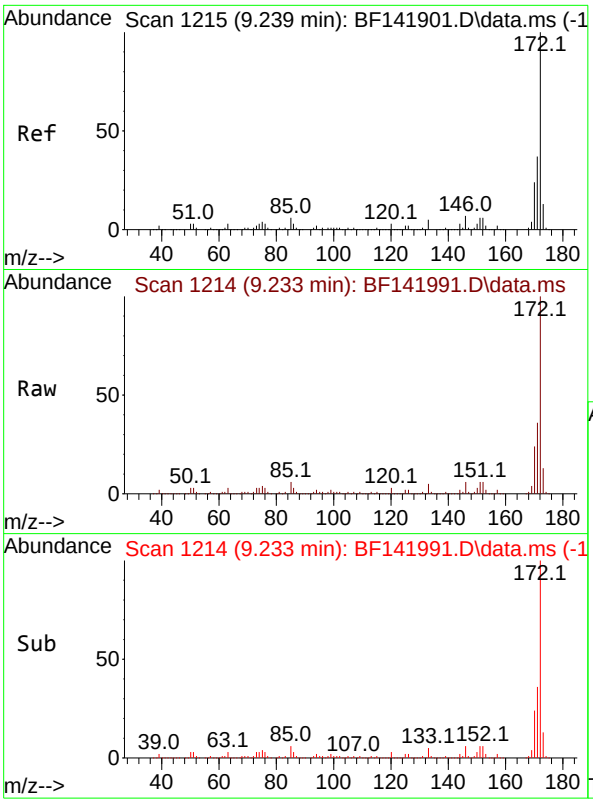


#42
2,4,6-Tribromophenol
Concen: 169.352 ng
RT: 10.704 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Tgt Ion:330 Resp: 728811

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.6	116.4
141	27.7	24.7	37.1



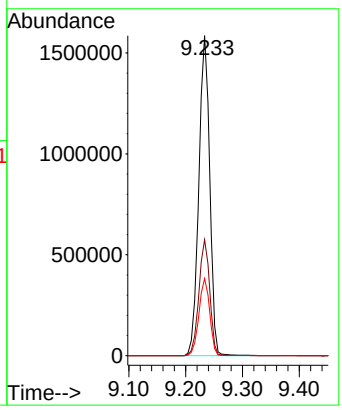


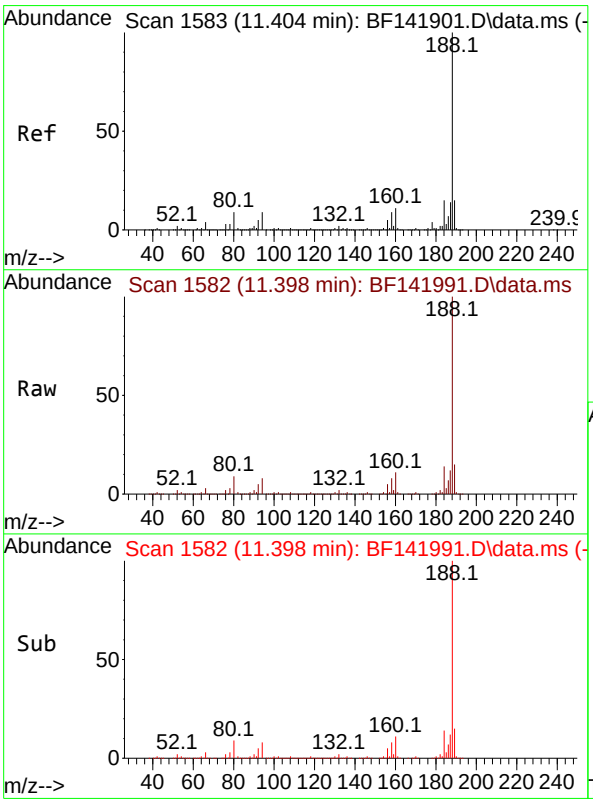
#45
2-Fluorobiphenyl
Concen: 94.967 ng
RT: 9.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-02

Tgt Ion:172 Resp: 2118296

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.3	43.9
170	24.1	19.4	29.0

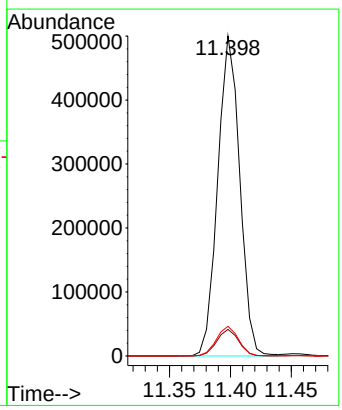


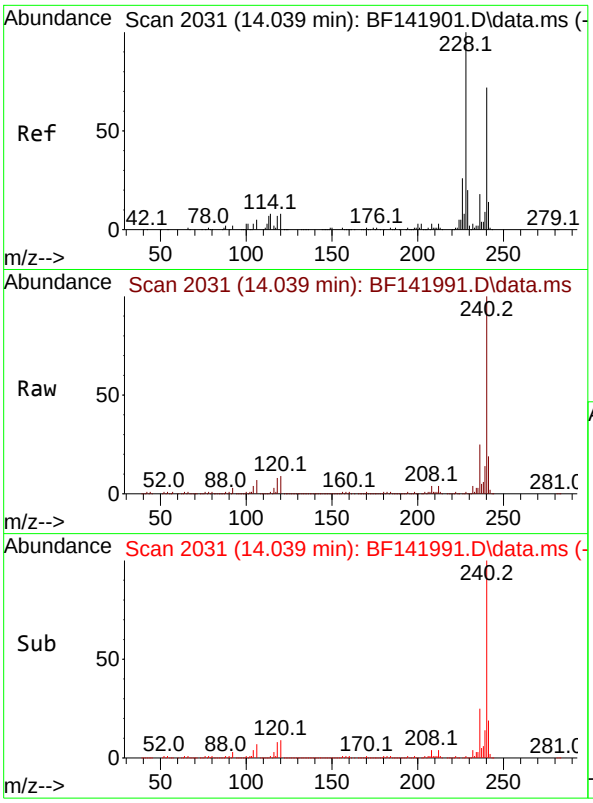


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Tgt Ion:188 Resp: 629815

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.8	10.2
80	9.3	7.6	11.4



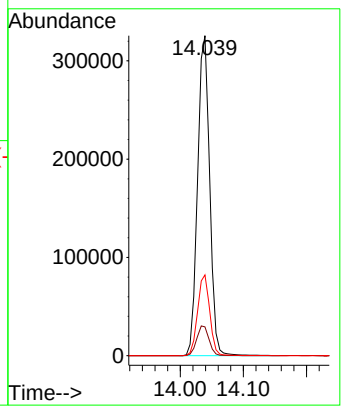


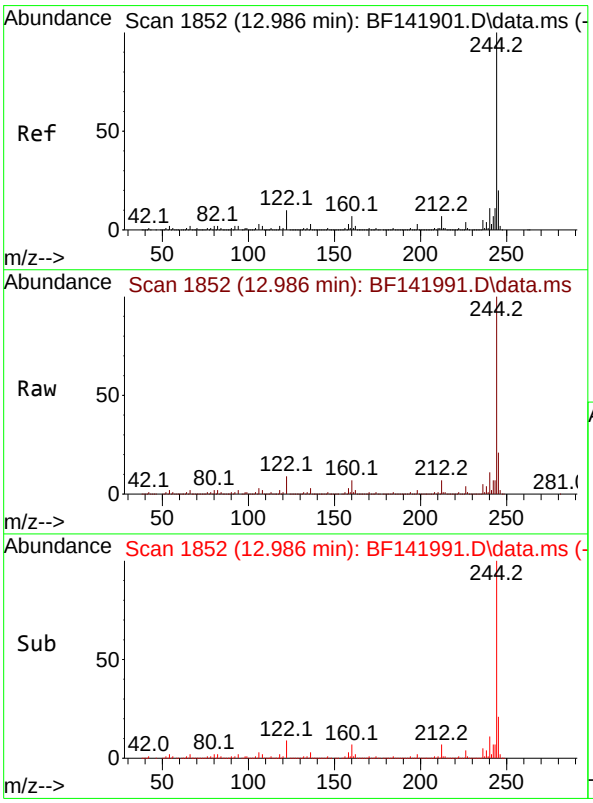
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-02

Tgt Ion:240 Resp: 432125

Ion	Ratio	Lower	Upper
240	100		
120	9.0	8.4	12.6
236	25.3	20.5	30.7

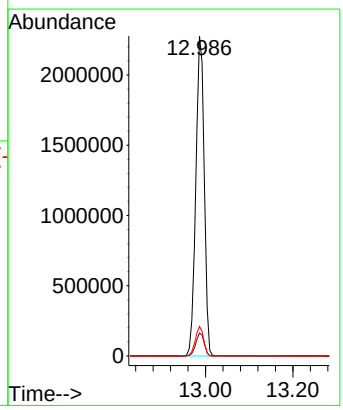


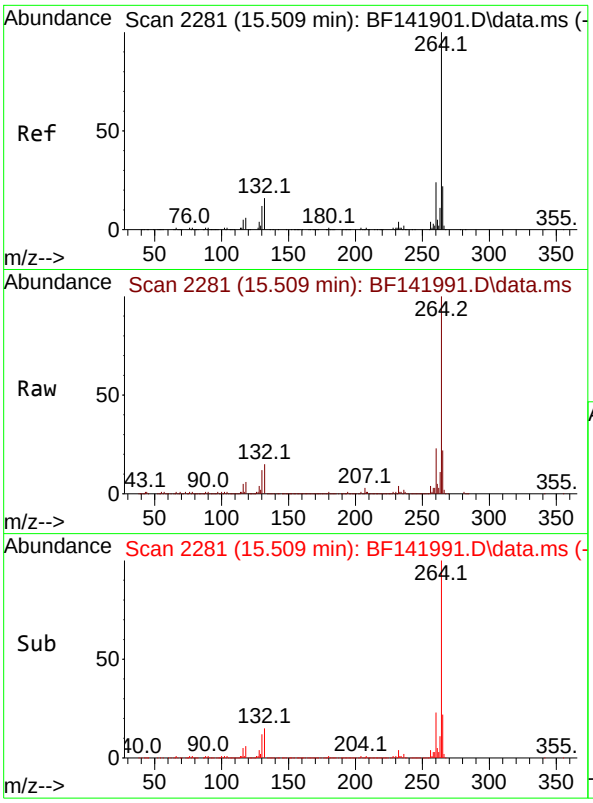


#79
Terphenyl-d14
Concen: 104.292 ng
RT: 12.986 min Scan# 1852
Delta R.T. 0.000 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Tgt Ion:244 Resp: 3048268

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	9.3	7.7	11.5



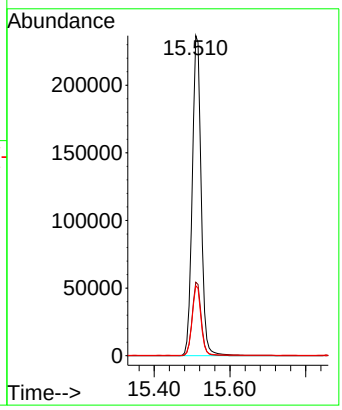


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141991.D
Acq: 18 Mar 2025 12:32

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-031325-02

Tgt Ion:264 Resp: 388734

Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.1	28.7
265	21.8	17.5	26.3



CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 15:46:22 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141897.D 5 =BF141898.D 10 =BF141899.D 20 =BF141900.D 40 =BF141901.D 50 =BF141905.D 60 =BF141903.D 80 =BF1419
04.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.490	0.482	0.536	0.504	0.495	0.501	0.508	0.502	3.43
3)		Pyridine		1.217	1.204	1.334	1.221	1.203	1.209	1.233	1.232	3.77
4)		n-Nitrosodimet...		0.554	0.556	0.621	0.583	0.595	0.594	0.607	0.587	4.26
5)	S	2-Fluorophenol		1.267	1.243	1.298	1.148	1.162	1.146	1.124	1.198	5.79
6)		Aniline		1.599	1.602	1.640	1.465	1.443	1.435	1.351	1.505	7.20
7)	S	Phenol-d6		1.623	1.593	1.644	1.442	1.483	1.471	1.424	1.526	5.99
8)		2-Chlorophenol		1.421	1.354	1.434	1.259	1.295	1.284	1.256	1.329	5.63
9)		Benzaldehyde			1.021	0.975	0.778	0.778	0.716		0.853	15.85
10)	C	Phenol		1.708	1.675	1.747	1.536	1.542	1.532	1.496	1.605	6.30
11)		bis(2-Chloroet...		1.287	1.246	1.281	1.144	1.175	1.176	1.127	1.205	5.43
12)		1,3-Dichlorobe...		1.475	1.489	1.538	1.373	1.401	1.401	1.367	1.435	4.59
13)	C	1,4-Dichlorobe...		1.514	1.503	1.548	1.393	1.408	1.420	1.376	1.452	4.71
14)		1,2-Dichlorobe...		1.461	1.417	1.460	1.303	1.315	1.343	1.273	1.367	5.69
15)		Benzyl Alcohol		1.236	1.252	1.322	1.185	1.214	1.246	1.180	1.233	3.91
16)		2,2'-oxybis(1-...		1.591	1.525	1.534	1.363	1.387	1.472	1.313	1.455	7.07
17)		2-Methylphenol		1.080	1.050	1.122	1.008	1.038	1.079	1.021	1.057	3.73
18)		Hexachloroethane		0.545	0.551	0.576	0.517	0.540	0.560	0.522	0.544	3.76
19)	P	n-Nitroso-di-n...	1.020	1.024	1.000	1.043	0.913	0.940	0.991	0.912	0.980	5.29
20)		3+4-Methylphenols		1.449	1.394	1.470	1.294	1.311	1.334	1.223	1.354	6.55
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.514	0.493	0.513	0.460	0.450	0.469	0.453	0.479	5.76
23)	S	Nitrobenzene-d5		0.345	0.356	0.379	0.348	0.344	0.363	0.353	0.355	3.47
24)		Nitrobenzene		0.347	0.351	0.375	0.346	0.343	0.359	0.352	0.353	3.07
25)		Isophorone		0.647	0.620	0.655	0.600	0.605	0.648	0.622	0.628	3.49
26)	C	2-Nitrophenol		0.150	0.159	0.182	0.175	0.179	0.188	0.181	0.173	7.88
27)		2,4-Dimethylph...		0.247	0.234	0.251	0.231	0.233	0.244	0.232	0.239	3.45
28)		bis(2-Chloroet...		0.411	0.406	0.416	0.372	0.377	0.397	0.378	0.394	4.63
29)	C	2,4-Dichloroph...		0.292	0.295	0.309	0.286	0.295	0.303	0.294	0.296	2.54
30)		1,2,4-Trichlor...		0.337	0.325	0.342	0.310	0.318	0.333	0.322	0.327	3.50
31)		Naphthalene		1.104	1.075	1.101	0.984	1.001	0.973	0.954	1.027	6.22
32)		Benzoic acid			0.149	0.191	0.208	0.228	0.242	0.241	0.210	17.07
33)		4-Chloroaniline		0.383	0.378	0.393	0.351	0.354	0.352	0.329	0.363	6.14
34)	C	Hexachlorobuta...		0.211	0.211	0.221	0.203	0.214	0.214	0.216	0.213	2.52
35)		Caprolactam		0.092	0.089	0.094	0.084	0.088	0.090	0.094	0.090	4.00
36)	C	4-Chloro-3-met...		0.334	0.331	0.349	0.318	0.329	0.334	0.320	0.331	3.13
37)		2-Methylnaphth...		0.746	0.709	0.733	0.653	0.655	0.667	0.645	0.687	6.09
38)		1-Methylnaphth...		0.717	0.691	0.721	0.623	0.619	0.647	0.620	0.663	6.95

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF031025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.615	0.604	0.626	0.592	0.597	0.606	0.623	0.609	2.11
41)	P	Hexachlorocycl...	0.204	0.221	0.249	0.250	0.237	0.252	0.256	0.238	8.03
42)	S	2,4,6-Tribromo...	0.234	0.236	0.259	0.250	0.259	0.265	0.272	0.254	5.67
43)	C	2,4,6-Trichlor...	0.388	0.389	0.402	0.398	0.400	0.401	0.409	0.398	1.91
44)		2,4,5-Trichlor...	0.396	0.391	0.422	0.389	0.400	0.415	0.407	0.403	3.05
45)	S	2-Fluorobiphenyl	1.430	1.379	1.379	1.254	1.272	1.246	1.246	1.315	5.95
46)		1,1'-Biphenyl	1.636	1.573	1.591	1.454	1.502	1.431	1.450	1.520	5.29
47)		2-Chloronaphth...	1.197	1.141	1.181	1.091	1.129	1.090	1.100	1.133	3.82
48)		2-Nitroaniline	0.296	0.314	0.346	0.322	0.356	0.332	0.330	0.328	6.08
49)		Acenaphthylene	1.765	1.740	1.778	1.635	1.664	1.595	1.589	1.681	4.74
50)		Dimethylphthalate	1.481	1.414	1.469	1.329	1.425	1.345	1.341	1.401	4.47
51)		2,6-Dinitrotol...	0.277	0.279	0.305	0.285	0.307	0.296	0.292	0.292	4.11
52)	C	Acenaphthene	1.236	1.195	1.231	1.146	1.144	1.165	1.152	1.181	3.37
53)		3-Nitroaniline	0.291	0.295	0.316	0.293	0.283	0.301	0.291	0.296	3.61
54)	P	2,4-Dinitrophenol		0.085	0.124	0.142	0.153	0.161	0.169	0.139	22.02
55)		Dibenzofuran	1.849	1.787	1.791	1.614	1.607	1.596	1.570	1.688	6.87
56)	P	4-Nitrophenol	0.192	0.216	0.234	0.230	0.229	0.230	0.230	0.223	6.60
57)		2,4-Dinitrotol...	0.365	0.382	0.402	0.375	0.383	0.383	0.376	0.381	2.95
58)		Fluorene	1.443	1.361	1.381	1.229	1.243	1.234	1.220	1.302	7.01
59)		2,3,4,6-Tetrac...	0.355	0.365	0.390	0.359	0.364	0.366	0.369	0.367	3.05
60)		Diethylphthalate	1.475	1.471	1.497	1.336	1.357	1.338	1.302	1.397	5.80
61)		4-Chlorophenyl...	0.730	0.688	0.702	0.643	0.664	0.656	0.667	0.679	4.41
62)		4-Nitroaniline	0.284	0.288	0.304	0.288	0.287	0.286	0.278	0.288	2.73
63)		Azobenzene	1.392	1.363	1.404	1.245	1.261	1.226	1.197	1.298	6.57
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.083	0.111	0.121	0.130	0.133	0.137	0.119	16.61
66)	c	n-Nitrosodiphe...	0.675	0.651	0.671	0.620	0.638	0.638	0.637	0.647	3.03
67)		4-Bromophenyl-...	0.240	0.249	0.255	0.244	0.263	0.245	0.262	0.251	3.55
68)		Hexachlorobenzene	0.262	0.267	0.284	0.269	0.283	0.271	0.292	0.275	3.92
69)		Atrazine	0.216	0.213	0.193	0.164	0.206			0.198	10.72
70)	C	Pentachlorophenol	0.130	0.151	0.172	0.177	0.180	0.186	0.191	0.170	12.66
71)		Phenanthrene	1.155	1.151	1.138	1.038	1.026	1.032	1.023	1.080	5.90
72)		Anthracene	1.173	1.139	1.139	1.046	1.026	1.036	1.026	1.084	5.89
73)		Carbazole	0.996	0.994	0.985	0.908	0.903	0.892	0.864	0.935	5.91
74)		Di-n-butylphth...	1.320	1.321	1.319	1.177	1.238	1.175	1.132	1.240	6.50
75)	C	Fluoranthene	1.234	1.226	1.228	1.108	1.148	1.059	1.017	1.146	7.66
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.347	0.309	0.190	0.360	0.220	0.275	0.252	0.279	22.73
78)		Pyrene	1.695	1.651	1.727	1.611	1.877	1.823	1.726	1.730	5.38
79)	S	Terphenyl-d14	1.343	1.309	1.360	1.276	1.380	1.417	1.384	1.353	3.56
80)		Butylbenzylpht...	0.629	0.656	0.702	0.655	0.703	0.717	0.677	0.677	4.72
81)		Benzo(a)anthra...	1.370	1.304	1.334	1.273	1.294	1.317	1.294	1.312	2.41
82)		3,3'-Dichlorob...	0.370	0.389	0.380	0.372	0.365	0.394	0.384	0.379	2.78
83)		Chrysene	1.143	1.194	1.260	1.136	1.192	1.213	1.189	1.190	3.53
84)		Bis(2-ethylhex...	0.897	0.912	0.966	0.904	0.978	0.952	0.927	0.934	3.43
85)	c	Di-n-octyl pht...	1.145	1.219	1.338	1.265	1.376	1.390	1.361	1.299	7.10

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF031025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.097	1.142	1.308	1.287	1.322	1.472	1.429	1.294	10.60
88)		Benzo(b)fluora...	1.420	1.310	1.485	1.210	1.346	1.390	1.434	1.371	6.65
89)		Benzo(k)fluora...	1.162	1.268	1.197	1.205	1.129	1.210	1.041	1.173	6.16
90)	C	Benzo(a)pyrene	1.040	1.042	1.123	1.036	1.083	1.083	1.101	1.073	3.16
91)		Dibenzo(a,h)an...	0.910	0.953	1.073	1.068	1.095	1.195	1.178	1.067	9.91
92)		Benzo(g,h,i)pe...	0.912	0.949	1.061	1.065	1.064	1.167	1.167	1.055	9.24

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141897.D
Acq On : 10 Mar 2025 11:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Mar 10 15:31:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

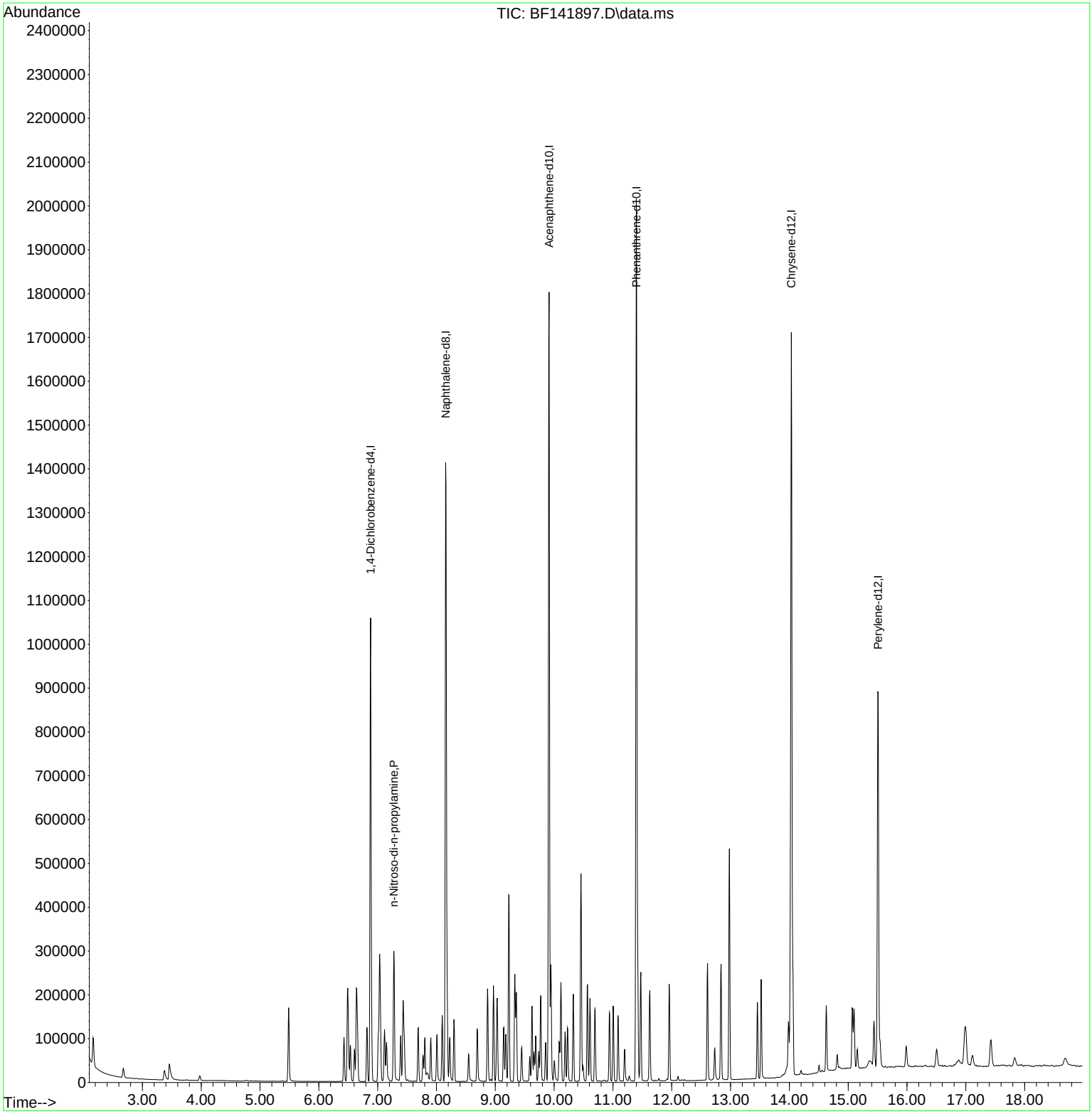
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	218163	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	918034	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	548310	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	1010378	20.000	ng	0.00
76) Chrysene-d12	14.033	240	740344	20.000	ng	0.00
86) Perylene-d12	15.509	264	520745	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...	7.275	70	27816	2.599	ng	94

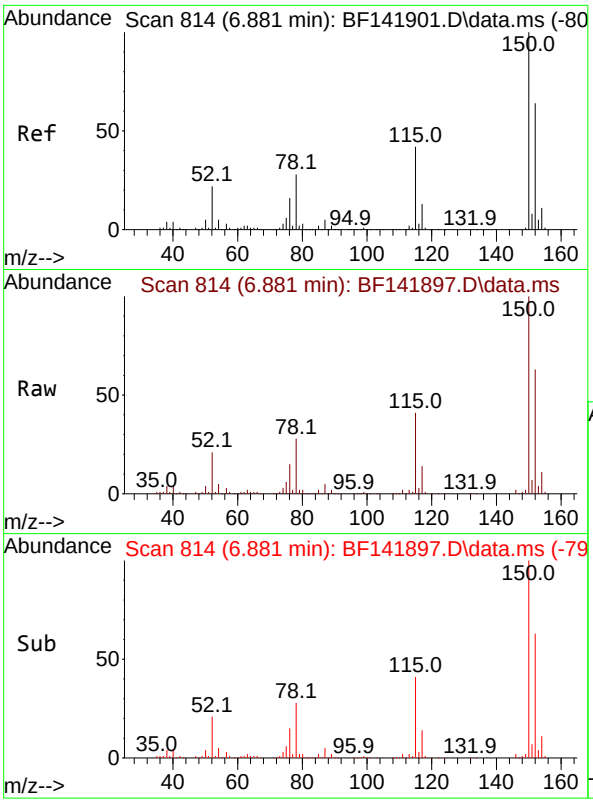
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141897.D
Acq On : 10 Mar 2025 11:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Mar 10 15:31:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration



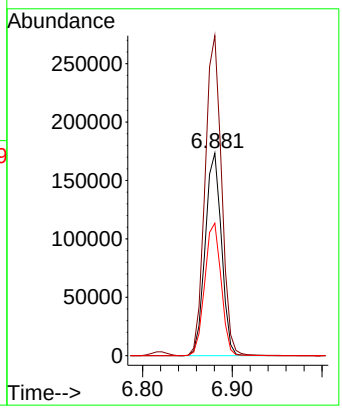


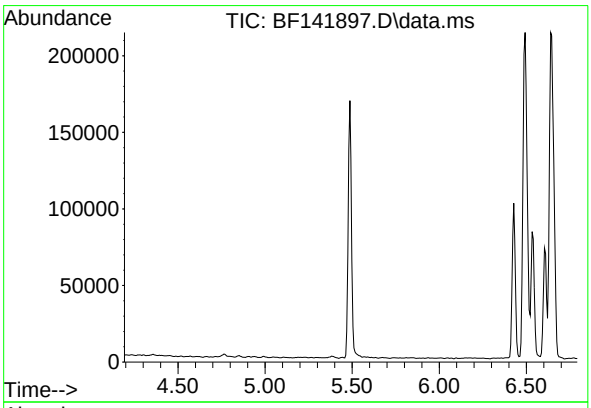
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 218163

Ion	Ratio	Lower	Upper
152	100		
150	158.0	127.4	191.2
115	65.4	51.9	77.9



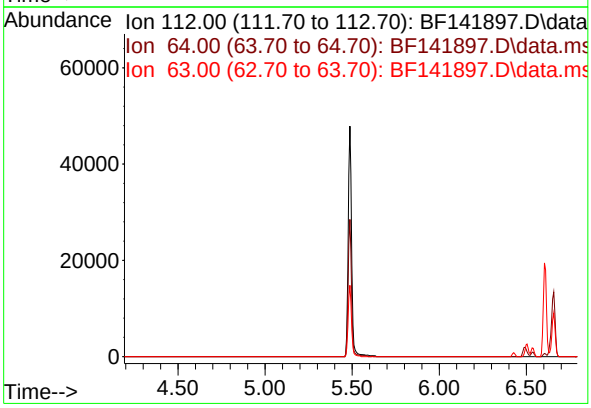


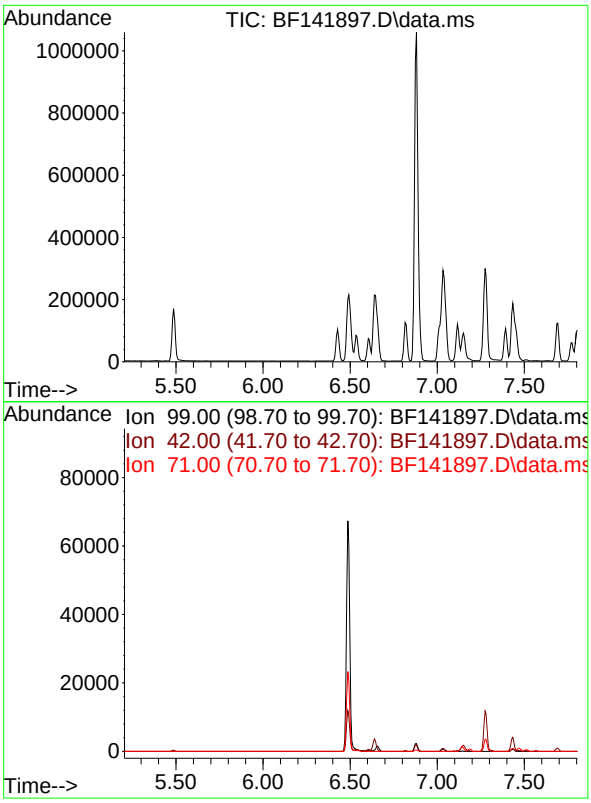
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.49 min

Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	58.1
63	31.8





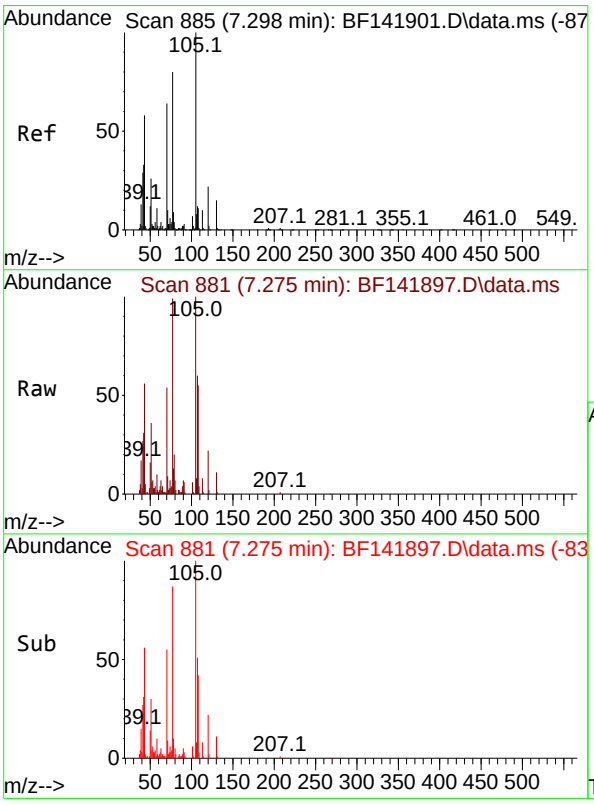
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.50 min

Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

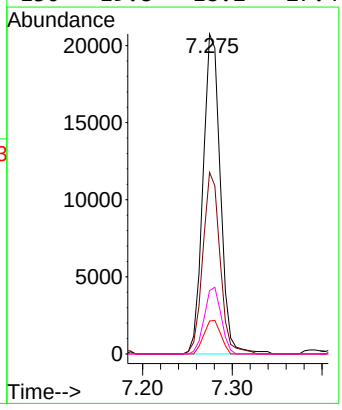
Sig	Exp Ratio
99	100
42	18.2
71	38.5

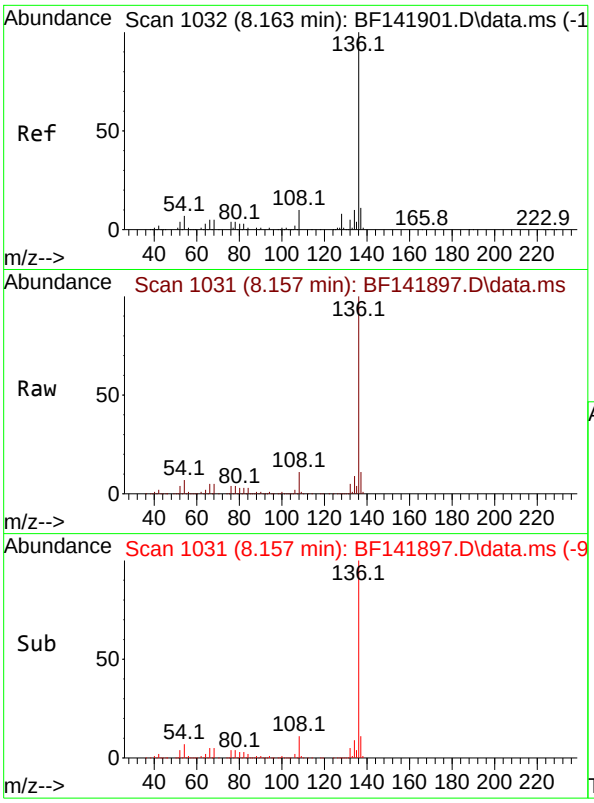


#19
n-Nitroso-di-n-propylamine
Concen: 2.599 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.024 min
Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Tgt Ion: 70 Resp: 27816

Ion	Ratio	Lower	Upper
70	100		
42	56.8	41.4	62.0
101	10.3	8.2	12.2
130	19.8	18.2	27.4



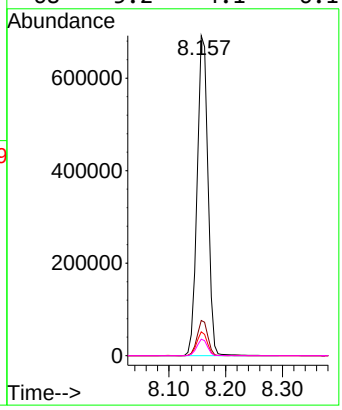


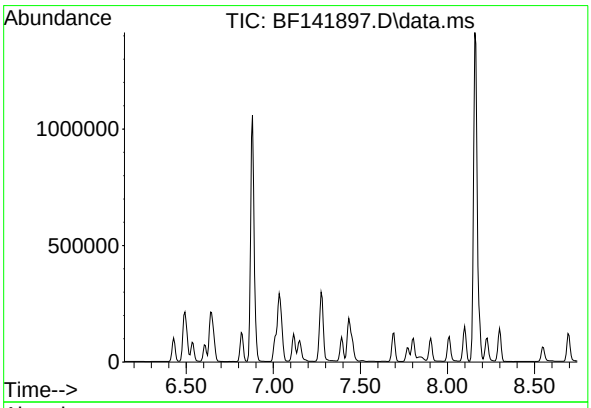
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 918034

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	7.5	5.8	8.8
68	5.2	4.1	6.1



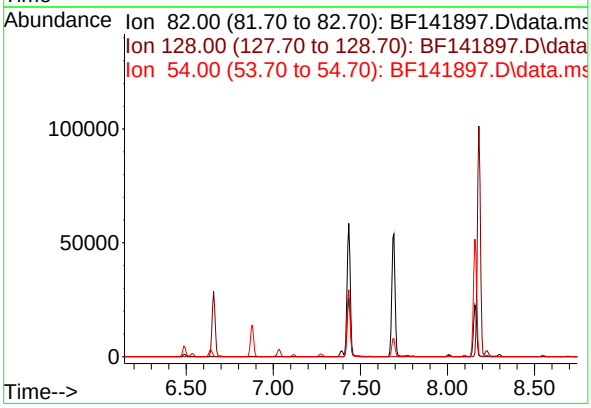


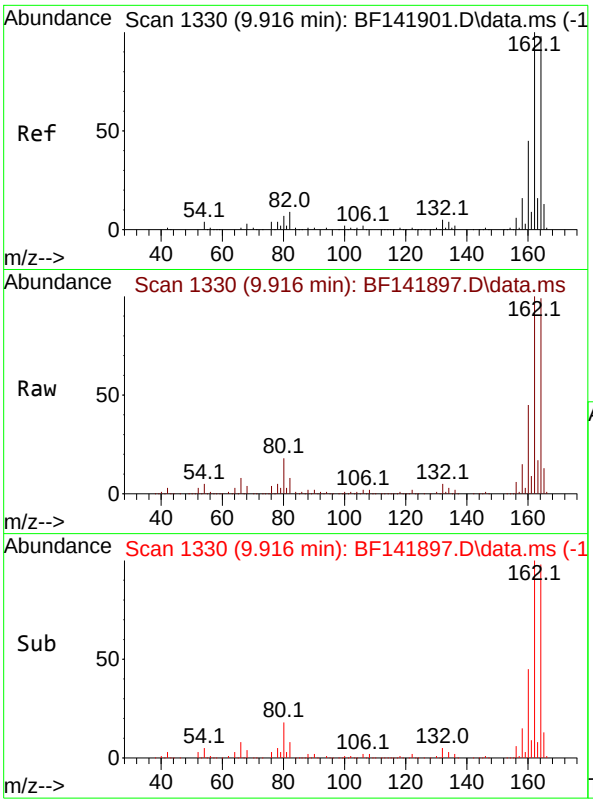
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.45 min

Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	45.0
54	49.5



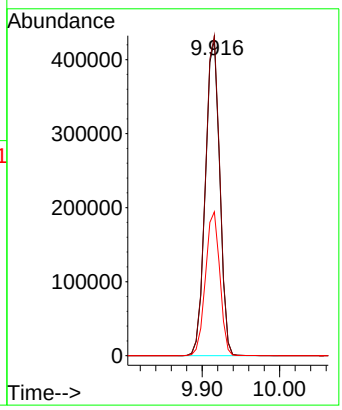


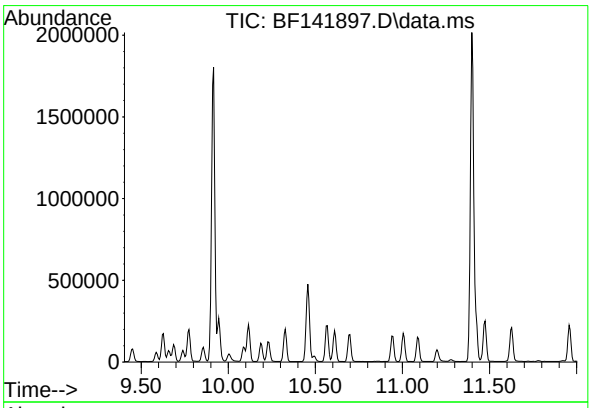
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 548310

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.8	122.6
160	45.5	36.7	55.1



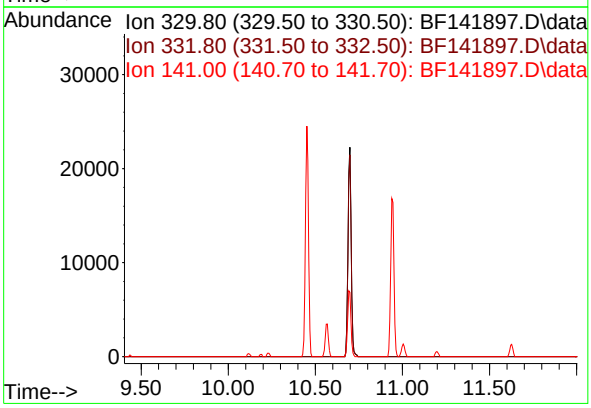


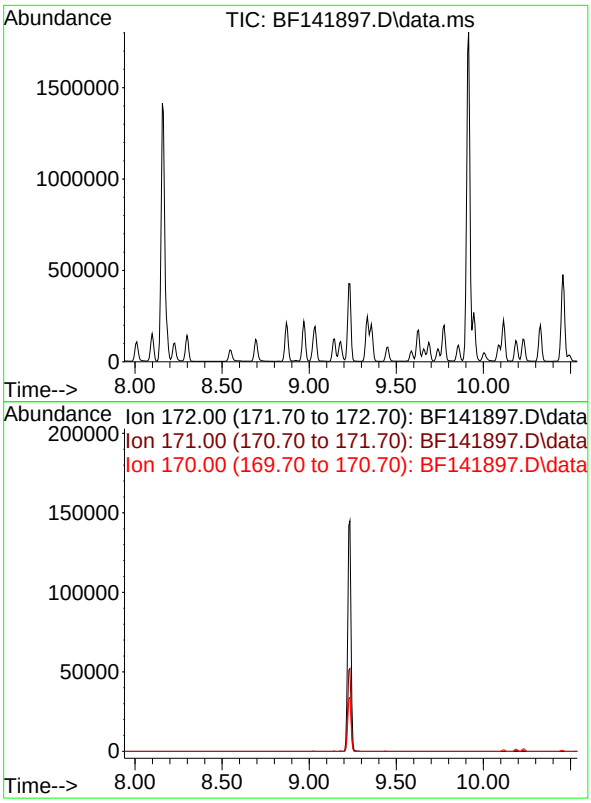
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.70 min

Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	97.0
141	30.9





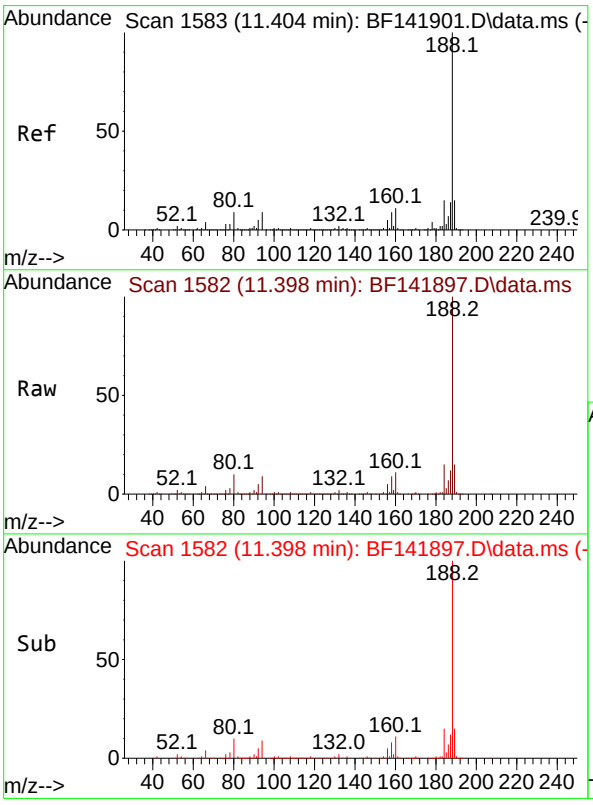
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.24 min

Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

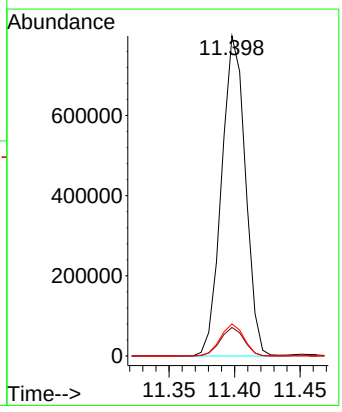
Sig	Exp Ratio
172	100
171	36.6
170	24.2

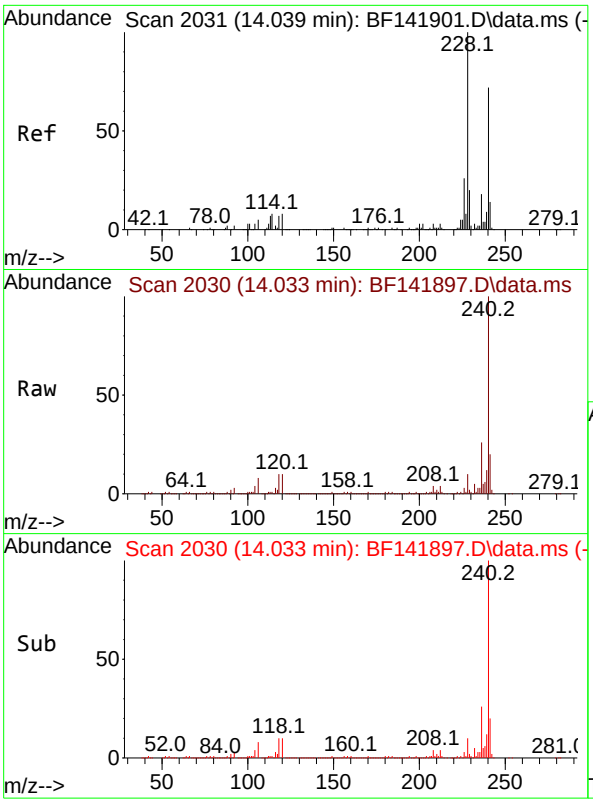


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Tgt Ion:188 Resp: 1010378

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.8	10.2
80	10.0	7.6	11.4



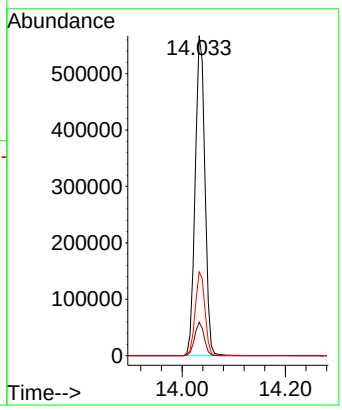


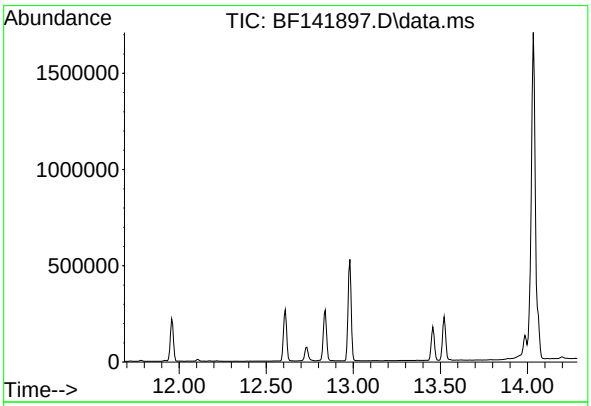
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 740344

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.4	12.6
236	26.2	20.5	30.7



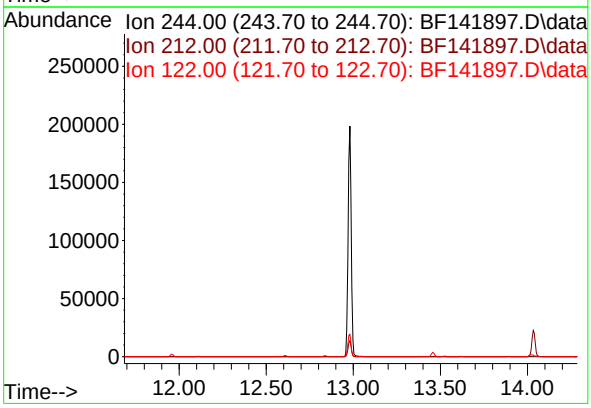


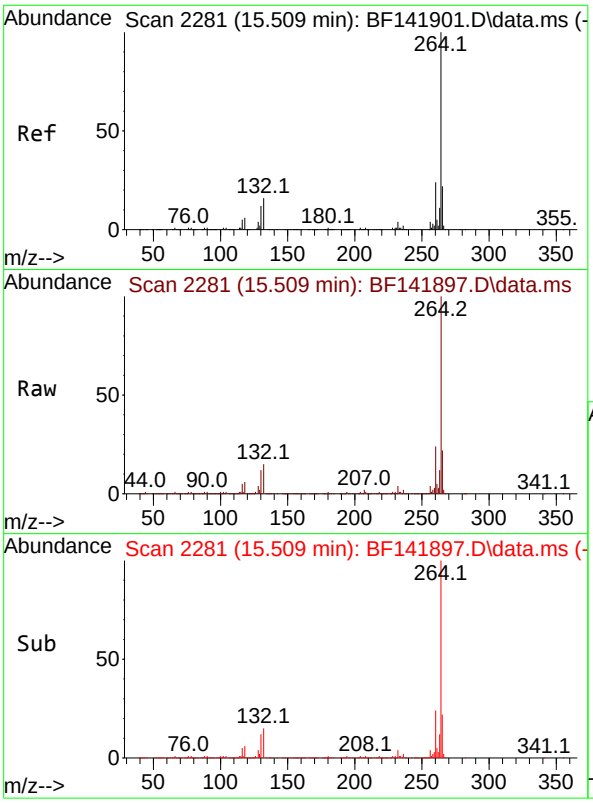
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.99 min

Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.5
122	9.6



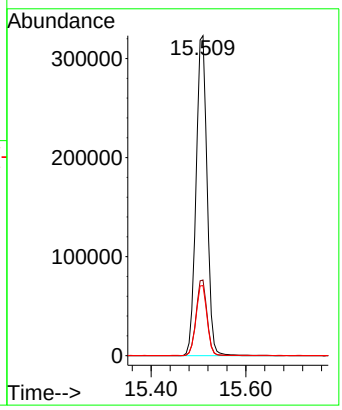


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141897.D
Acq: 10 Mar 2025 11:01

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 520745

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.1	28.7
265	21.9	17.5	26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141898.D
Acq On : 10 Mar 2025 11:30
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Mar 10 15:32:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	230406	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	926118	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	546702	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	1002901	20.000	ng		0.00
76) Chrysene-d12	14.033	240	745624	20.000	ng		0.00
86) Perylene-d12	15.504	264	527129	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	145959	10.570	ng		0.00
7) Phenol-d6	6.486	99	186951	10.630	ng		-0.02
23) Nitrobenzene-d5	7.433	82	159777	9.670	ng		-0.01
42) 2,4,6-Tribromophenol	10.698	330	63996	9.238	ng		0.00
45) 2-Fluorobiphenyl	9.233	172	390913	10.888	ng		0.00
79) Terphenyl-d14	12.980	244	500607	9.924	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.675	88	28210	4.874	ng		99
3) Pyridine	3.451	79	70090	4.928	ng		99
4) n-Nitrosodimethylamine	3.369	42	31893	4.717	ng	#	99
6) Aniline	6.534	93	92116	5.305	ng		100
8) 2-Chlorophenol	6.657	128	81845	5.347	ng		98
10) Phenol	6.504	94	98369	5.301	ng		96
11) bis(2-Chloroethyl)ether	6.604	93	74158	5.334	ng		98
12) 1,3-Dichlorobenzene	6.816	146	84952	5.136	ng		100
13) 1,4-Dichlorobenzene	6.898	146	87237	5.213	ng		98
14) 1,2-Dichlorobenzene	7.045	146	84183	5.342	ng		99
15) Benzyl Alcohol	7.010	79	71182	5.000	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.151	45	91659	5.470	ng		97
17) 2-Methylphenol	7.116	107	62211	5.114	ng		99
18) Hexachloroethane	7.392	117	31373	5.000	ng		96
19) n-Nitroso-di-n-propyla...	7.281	70	58981	5.218	ng		98
20) 3+4-Methylphenols	7.269	107	83461	5.349	ng		97
22) Acetophenone	7.281	105	119040	5.358	ng		99
24) Nitrobenzene	7.451	77	80338	4.904	ng		99
25) Isophorone	7.692	82	149807	5.135	ng		99
26) 2-Nitrophenol	7.775	139	34757	4.329	ng		98
27) 2,4-Dimethylphenol	7.804	122	57106	5.164	ng		96
28) bis(2-Chloroethoxy)met...	7.904	93	95214	5.210	ng		97
29) 2,4-Dichlorophenol	8.010	162	67710	4.934	ng		99
30) 1,2,4-Trichlorobenzene	8.098	180	78127	5.160	ng		98
31) Naphthalene	8.180	128	255632	5.388	ng		98
33) 4-Chloroaniline	8.228	127	88635	5.294	ng		99
34) Hexachlorobutadiene	8.298	225	48885	4.966	ng		99
35) Caprolactam	8.557	113	21358	5.118	ng		94
36) 4-Chloro-3-methylphenol	8.692	107	77370	5.070	ng		99
37) 2-Methylnaphthalene	8.869	142	172734	5.427	ng		99
38) 1-Methylnaphthalene	8.969	142	166050	5.387	ng		99
40) 1,2,4,5-Tetrachloroben...	9.033	216	84034	5.041	ng		99
41) Hexachlorocyclopentadiene	9.022	237	27931	4.246	ng		96
43) 2,4,6-Trichlorophenol	9.145	196	52998	4.877	ng		99
44) 2,4,5-Trichlorophenol	9.180	196	54111	4.901	ng		97
46) 1,1'-Biphenyl	9.333	154	223637	5.395	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141898.D
Acq On : 10 Mar 2025 11:30
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Mar 10 15:32:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

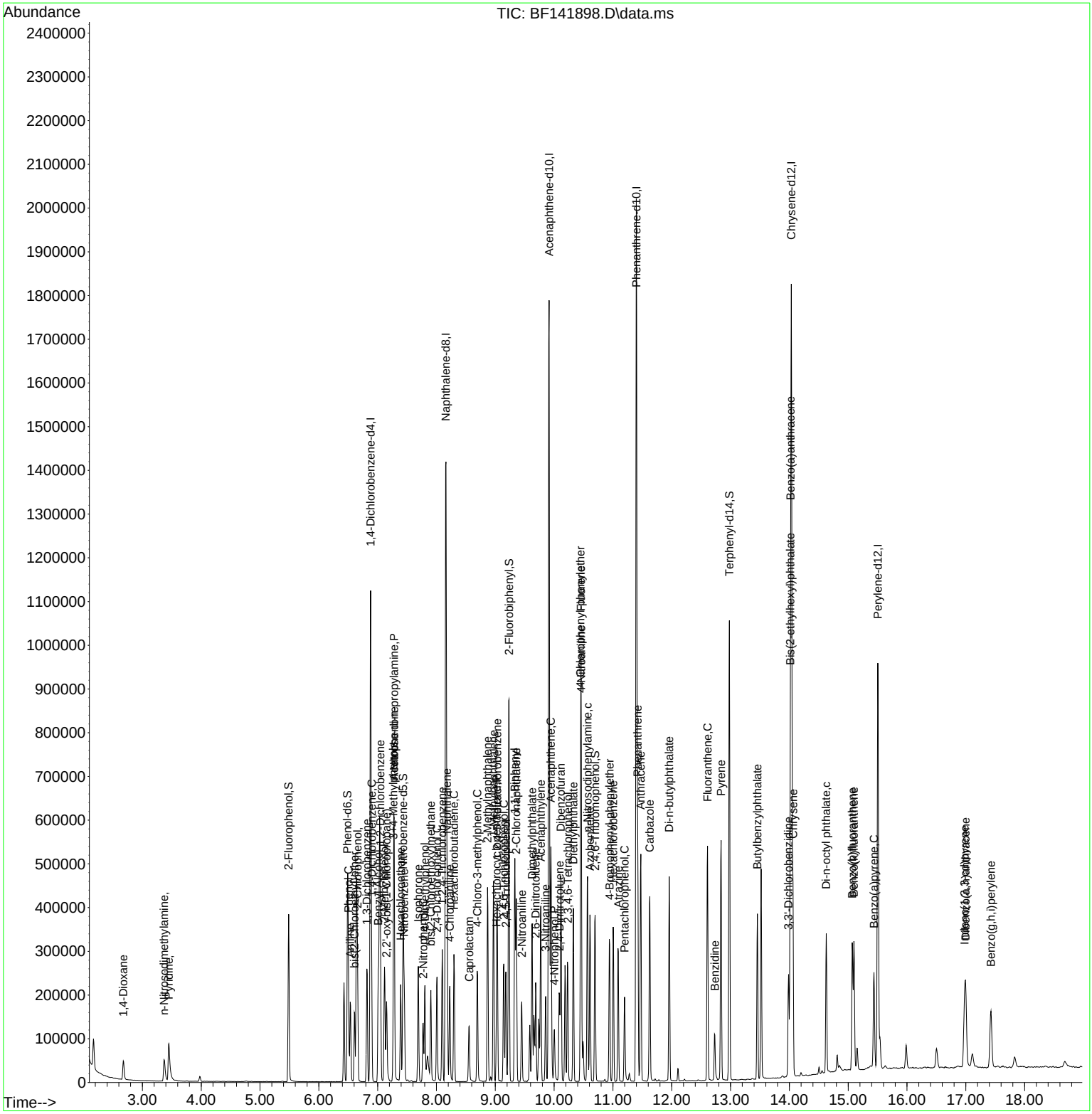
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 2-Chloronaphthalene	9.357	162	163642	5.298	ng	97
48) 2-Nitroaniline	9.451	65	40475	4.561	ng	98
49) Acenaphthylene	9.774	152	241253	5.268	ng	99
50) Dimethylphthalate	9.627	163	202373	5.328	ng	100
51) 2,6-Dinitrotoluene	9.686	165	37796	4.785	ng	99
52) Acenaphthene	9.945	154	168975	5.225	ng	98
53) 3-Nitroaniline	9.857	138	39761	4.902	ng	98
55) Dibenzofuran	10.116	168	252715	5.481	ng	97
56) 4-Nitrophenol	10.004	139	26252	4.309	ng	99
57) 2,4-Dinitrotoluene	10.092	165	49913	4.800	ng	98
58) Fluorene	10.457	166	197266	5.542	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	48472	4.839	ng	98
60) Diethylphthalate	10.327	149	201554	5.286	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	99747	5.380	ng	98
62) 4-Nitroaniline	10.463	138	38863	4.945	ng	94
63) Azobenzene	10.610	77	190233	5.370	ng	98
66) n-Nitrosodiphenylamine	10.569	169	169225	5.223	ng	98
67) 4-Bromophenyl-phenylether	10.945	248	60238	4.823	ng	98
68) Hexachlorobenzene	11.004	284	65620	4.753	ng	98
69) Atrazine	11.092	200	54251	6.867	ng	98
70) Pentachlorophenol	11.198	266	32716	3.843	ng	100
71) Phenanthrene	11.421	178	289580	5.340	ng	98
72) Anthracene	11.474	178	294198	5.407	ng	98
73) Carbazole	11.627	167	249634	5.329	ng	99
74) Di-n-butylphthalate	11.957	149	330999	5.352	ng	99
75) Fluoranthene	12.610	202	309273	5.432	ng	99
77) Benzidine	12.733	184	64673	6.138	ng	99
78) Pyrene	12.839	202	315969	4.941	ng	99
80) Butylbenzylphthalate	13.457	149	117256	4.653	ng	99
81) Benzo(a)anthracene	14.021	228	255308	5.205	ng	100
82) 3,3'-Dichlorobenzidine	13.986	252	68969	4.865	ng	100
83) Chrysene	14.062	228	213144	4.837	ng	99
84) Bis(2-ethylhexyl)phtha...	14.015	149	167165	4.836	ng	99
85) Di-n-octyl phthalate	14.627	149	213395	4.435	ng	99
87) Indeno(1,2,3-cd)pyrene	16.980	276	144536	4.228	ng	99
88) Benzo(b)fluoranthene	15.068	252	187154	5.234	ng	99
89) Benzo(k)fluoranthene	15.098	252	153142	4.903	ng	99
90) Benzo(a)pyrene	15.439	252	137043	4.860	ng	99
91) Dibenzo(a,h)anthracene	16.998	278	119937	4.252	ng	99
92) Benzo(g,h,i)perylene	17.427	276	120142	4.294	ng	99

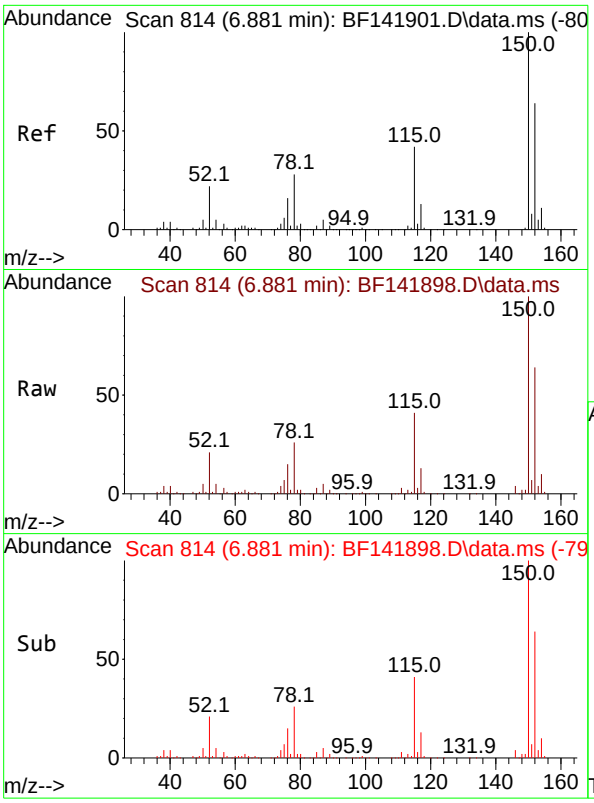
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141898.D
Acq On : 10 Mar 2025 11:30
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Mar 10 15:32:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration



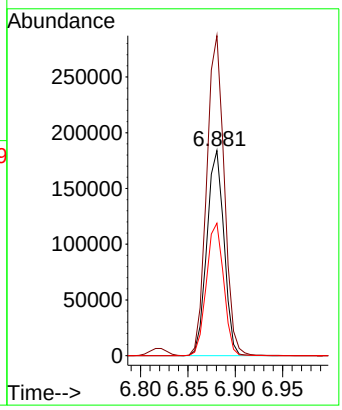


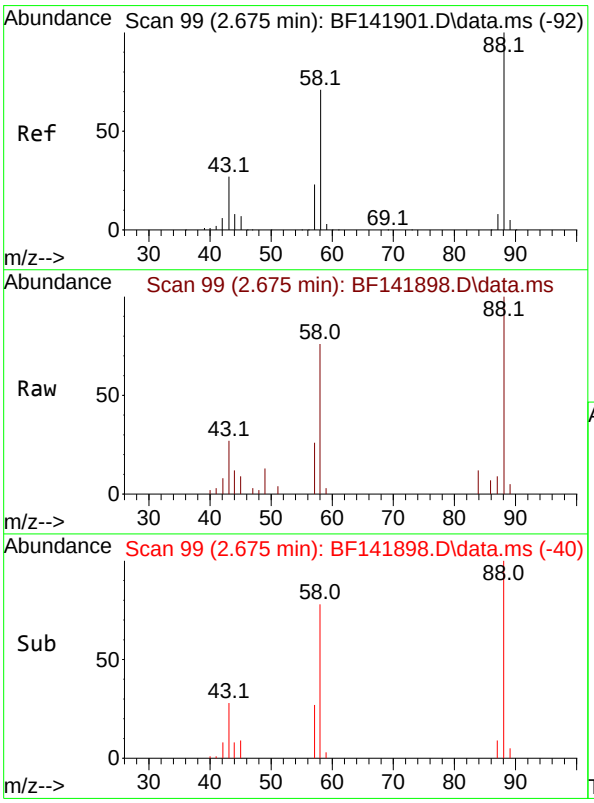
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 230406

Ion	Ratio	Lower	Upper
152	100		
150	155.9	127.4	191.2
115	64.6	51.9	77.9

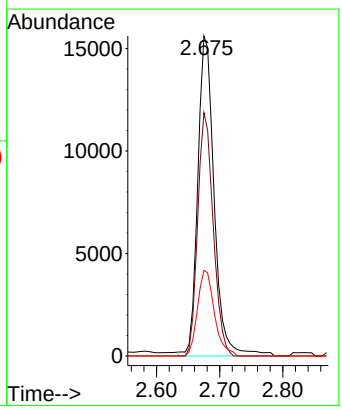


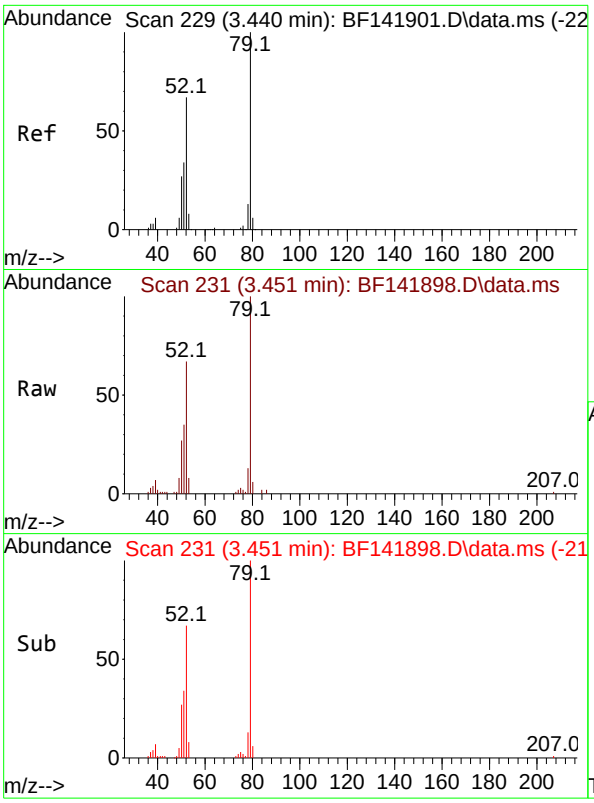


#2
1,4-Dioxane
Concen: 4.874 ng
RT: 2.675 min Scan# 99
Delta R.T. -0.000 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion: 88 Resp: 28210

Ion	Ratio	Lower	Upper
88	100		
58	71.4	57.4	86.2
43	27.5	21.5	32.3



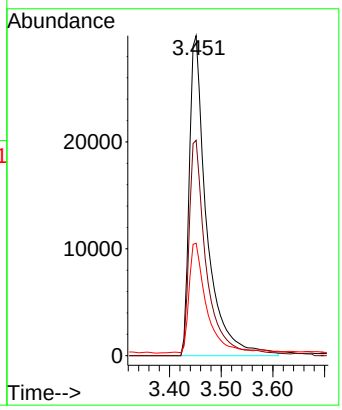


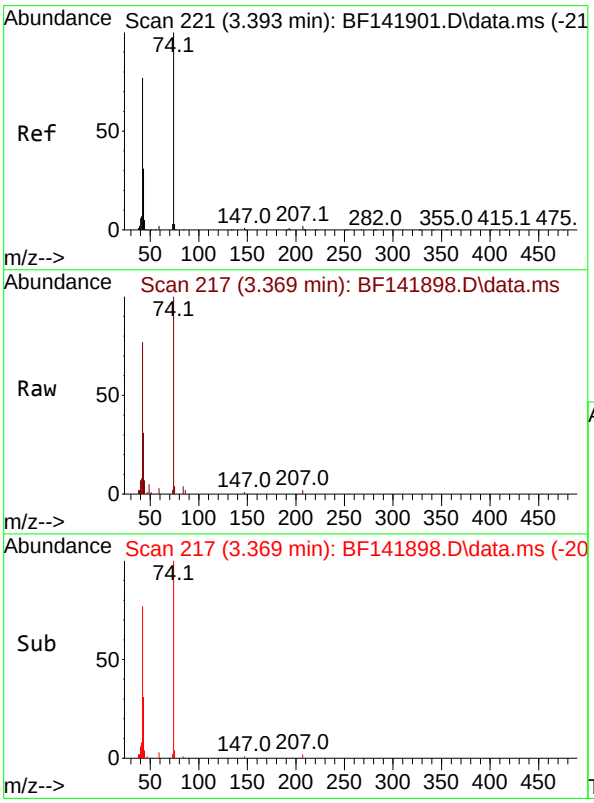
#3
Pyridine
Concen: 4.928 ng
RT: 3.451 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 70090

Ion	Ratio	Lower	Upper
79	100		
52	67.3	53.3	79.9
51	35.2	27.6	41.4

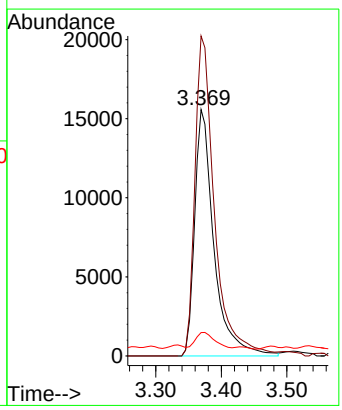


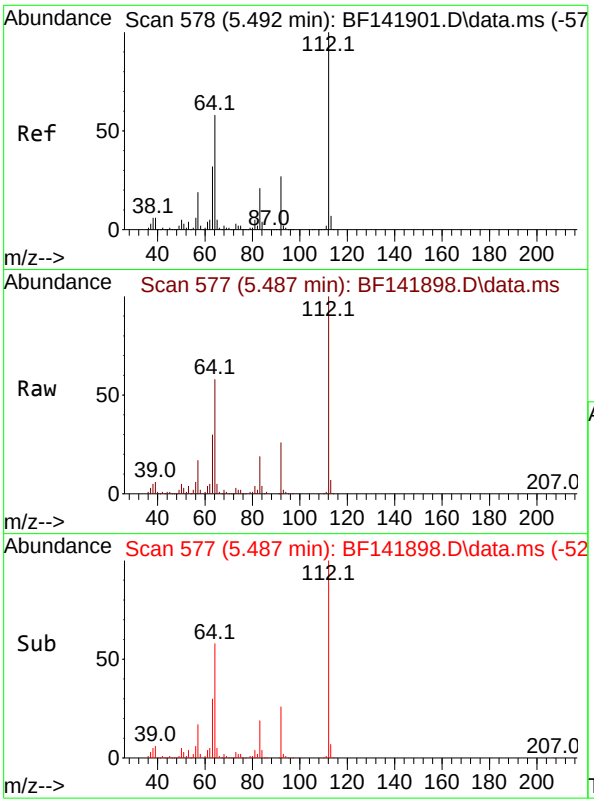


#4
n-Nitrosodimethylamine
Concen: 4.717 ng
RT: 3.369 min Scan# 217
Delta R.T. -0.024 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion: 42 Resp: 31893

Ion	Ratio	Lower	Upper
42	100		
74	129.9	103.4	155.0
44	9.5	5.0	7.4#



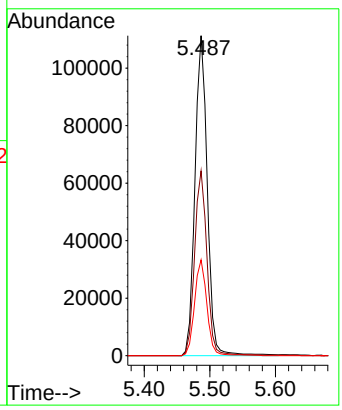


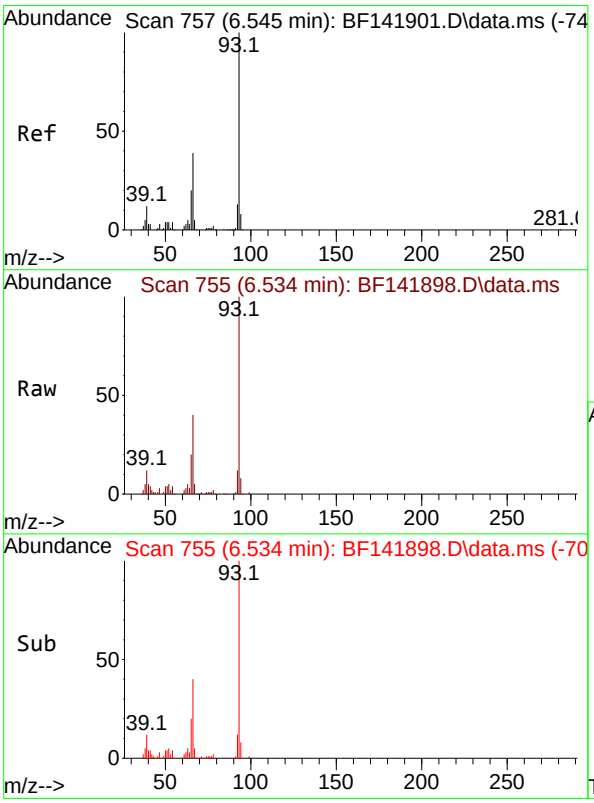
#5
2-Fluorophenol
Concen: 10.570 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:112 Resp: 145959

Ion	Ratio	Lower	Upper
112	100		
64	57.8	46.5	69.7
63	29.9	25.4	38.2

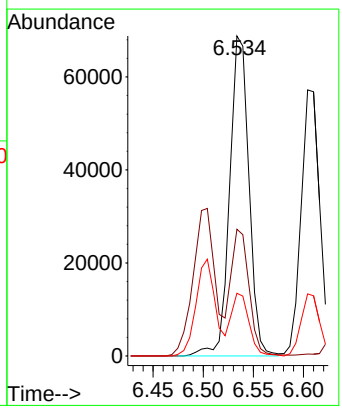


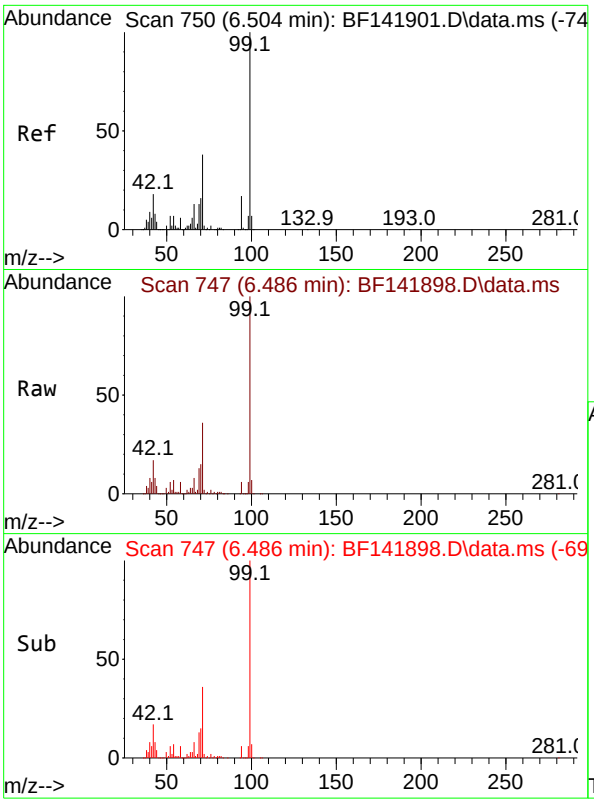


#6
Aniline
Concen: 5.305 ng
RT: 6.534 min Scan# 755
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion: 93 Resp: 92116

Ion	Ratio	Lower	Upper
93	100		
66	39.6	31.9	47.9
65	19.6	15.8	23.6



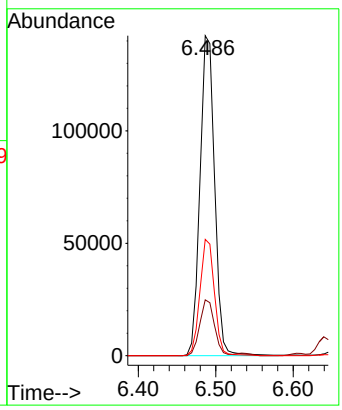


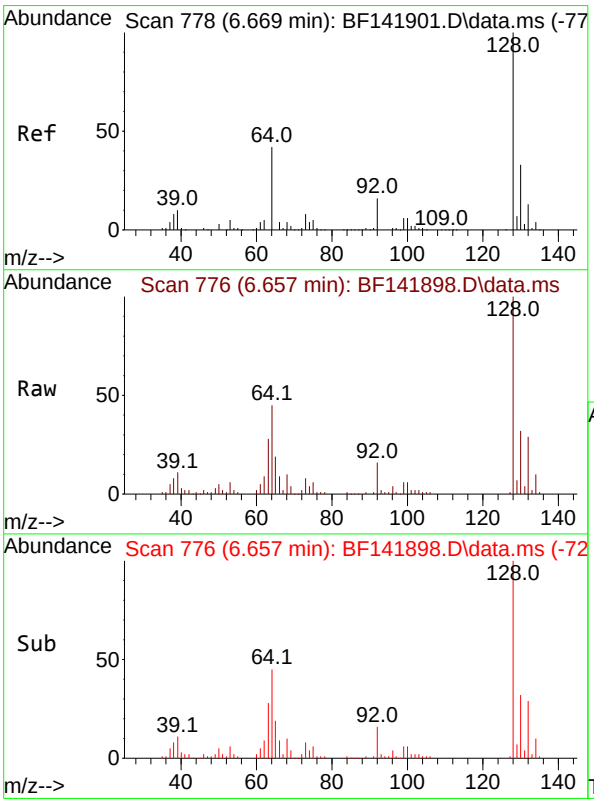
#7
Phenol-d6
Concen: 10.630 ng
RT: 6.486 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 99 Resp: 186951

Ion	Ratio	Lower	Upper
99	100		
42	17.5	14.6	21.8
71	36.4	30.8	46.2

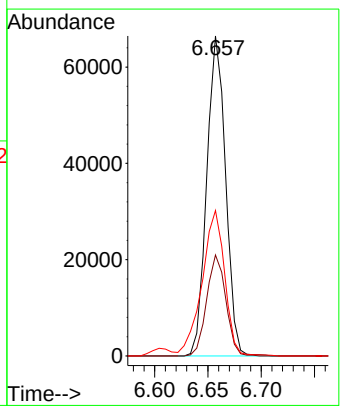


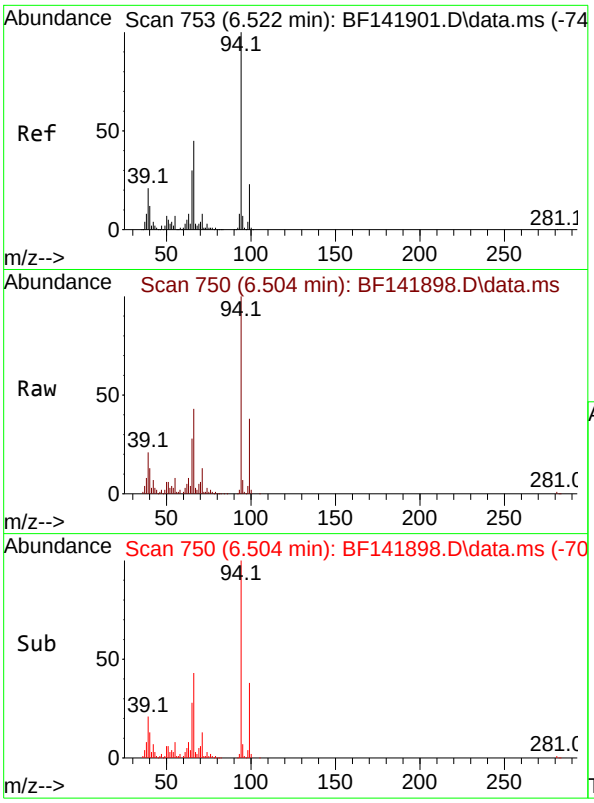


#8
2-Chlorophenol
Concen: 5.347 ng
RT: 6.657 min Scan# 776
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:128 Resp: 81845

Ion	Ratio	Lower	Upper
128	100		
130	31.5	12.8	52.8
64	45.5	24.4	64.4



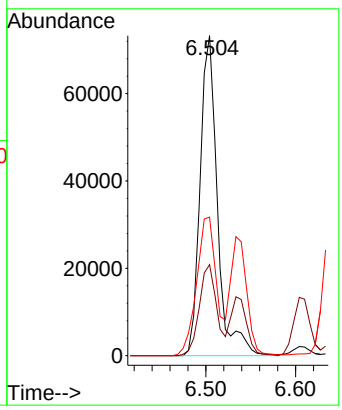


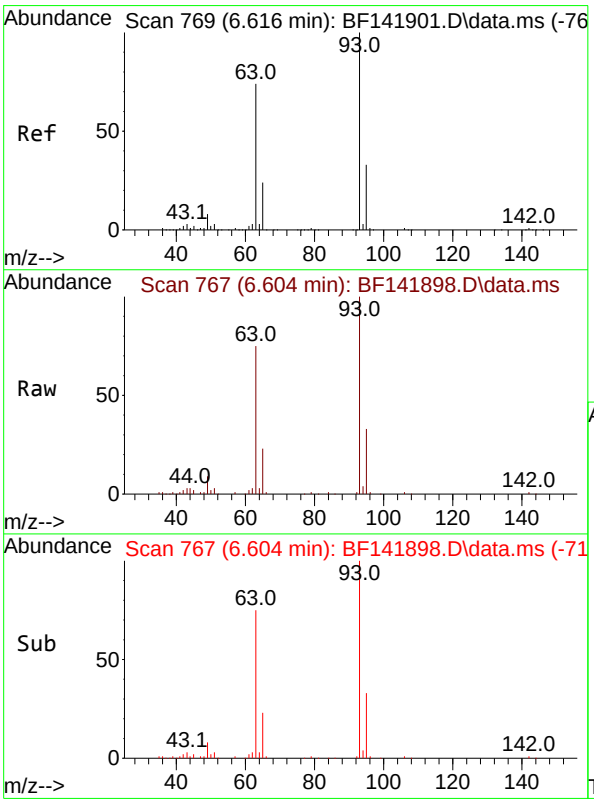
#10
Phenol
Concen: 5.301 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 94 Resp: 98369

Ion	Ratio	Lower	Upper
94	100		
65	28.4	10.5	50.5
66	43.3	25.8	65.8

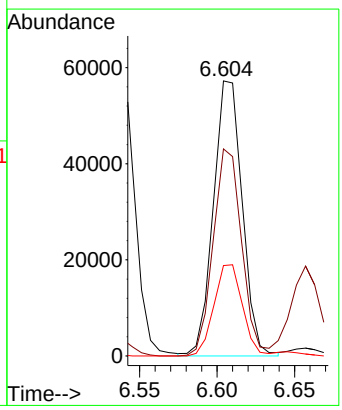


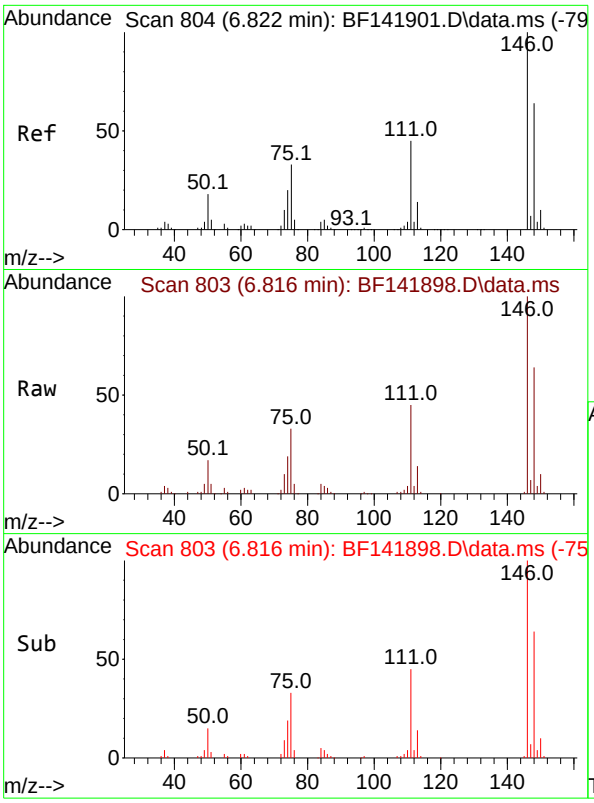


#11
bis(2-Chloroethyl)ether
Concen: 5.334 ng
RT: 6.604 min Scan# 767
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion: 93 Resp: 74158

Ion	Ratio	Lower	Upper
93	100		
63	75.3	53.0	93.0
95	32.9	12.9	52.9



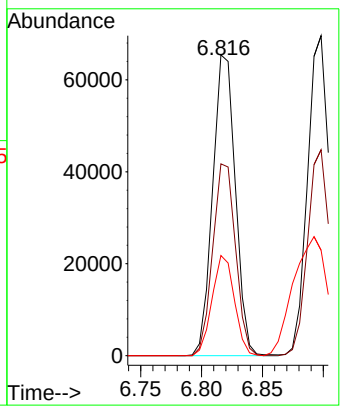


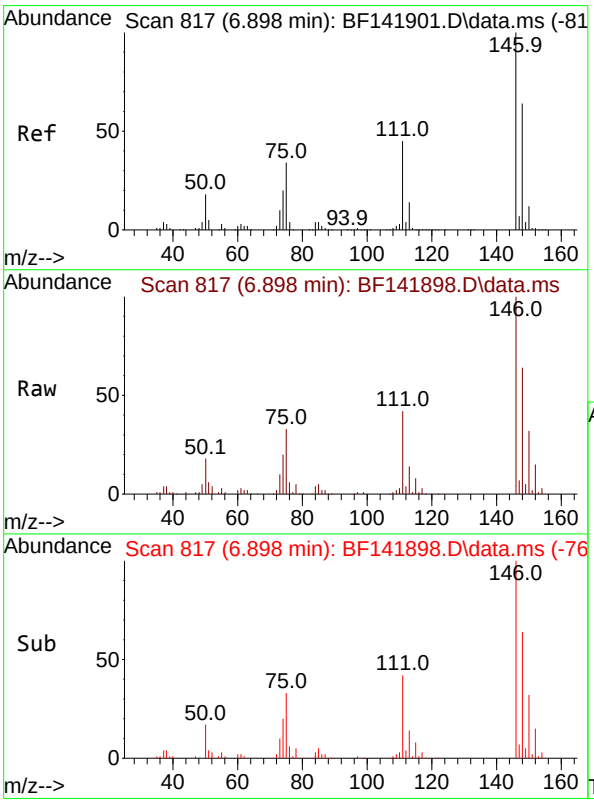
#12
1,3-Dichlorobenzene
Concen: 5.136 ng
RT: 6.816 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 84952

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.3	76.9
75	33.3	26.6	40.0

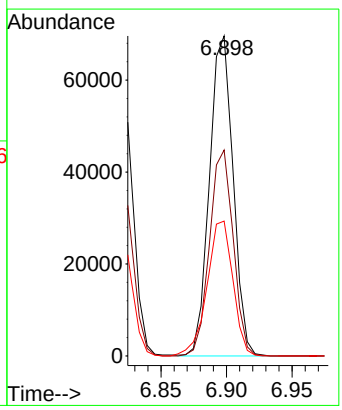


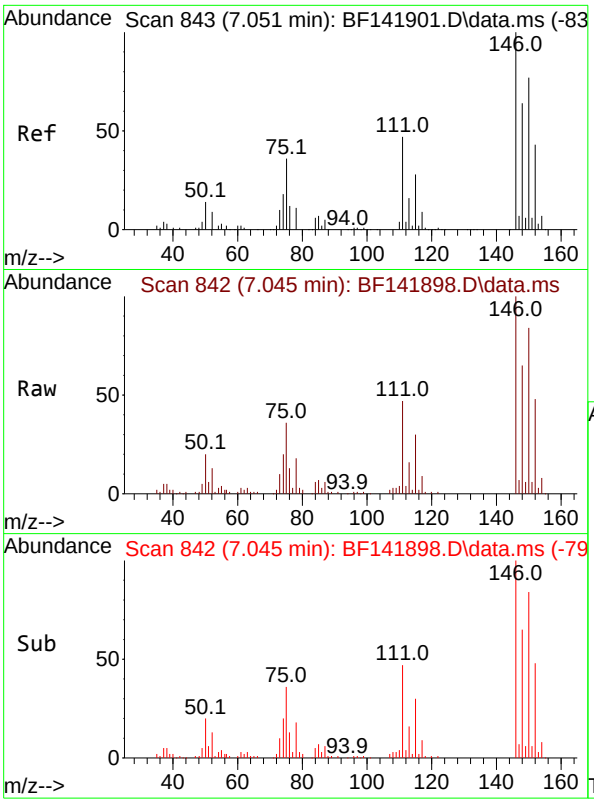


#13
1,4-Dichlorobenzene
Concen: 5.213 ng
RT: 6.898 min Scan# 817
Delta R.T. -0.000 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:146 Resp: 87237

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.0	76.6
111	42.2	35.7	53.5



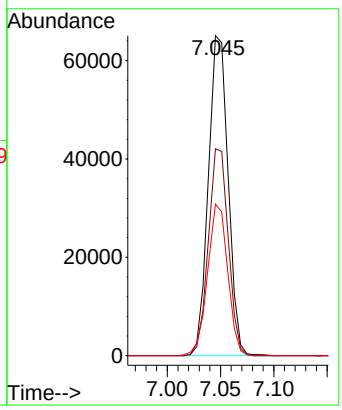


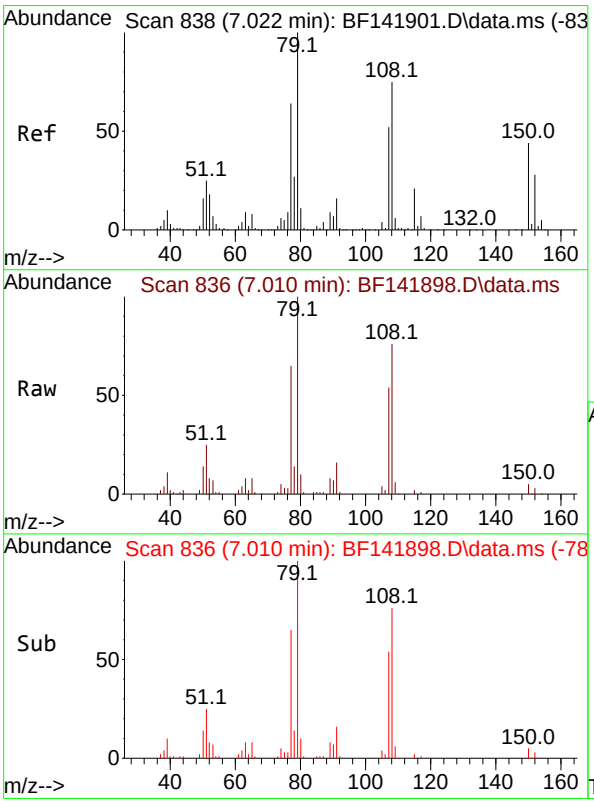
#14
1,2-Dichlorobenzene
Concen: 5.342 ng
RT: 7.045 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 84183

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.8	76.2
111	47.4	38.0	57.0

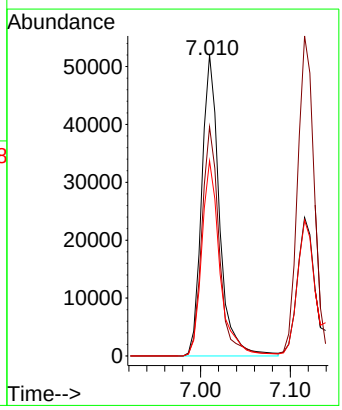


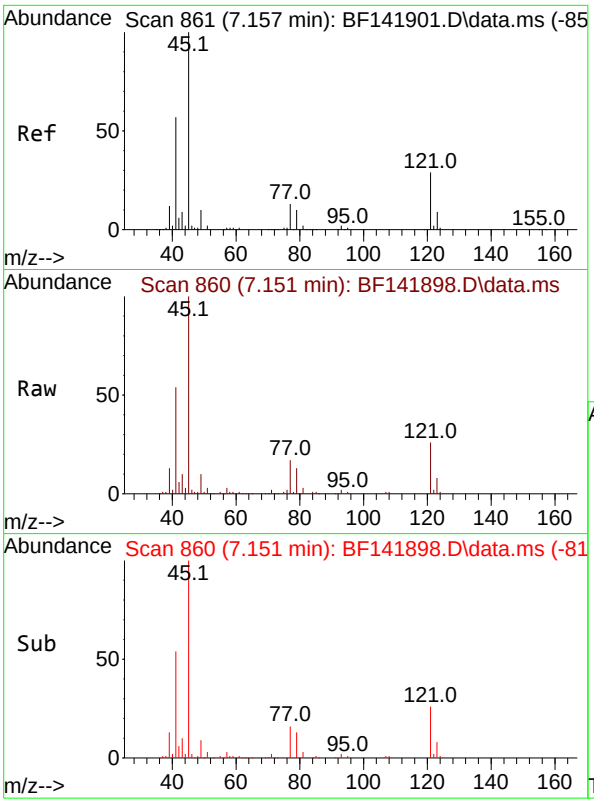


#15
Benzyl Alcohol
Concen: 5.000 ng
RT: 7.010 min Scan# 836
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion: 79 Resp: 71182

Ion	Ratio	Lower	Upper
79	100		
108	76.1	59.7	89.5
77	64.8	51.0	76.6



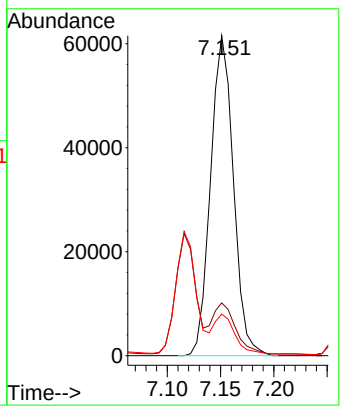


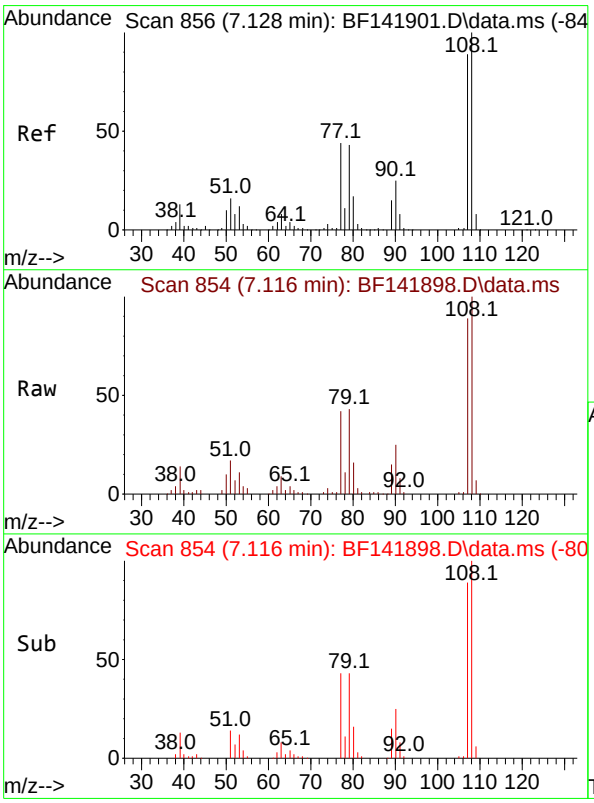
#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.470 ng
RT: 7.151 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 45 Resp: 91659

Ion	Ratio	Lower	Upper
45	100		
77	16.5	0.0	37.8
79	13.0	0.0	34.2

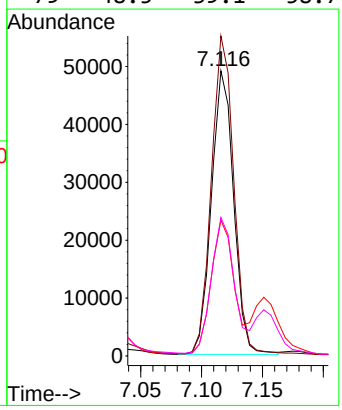


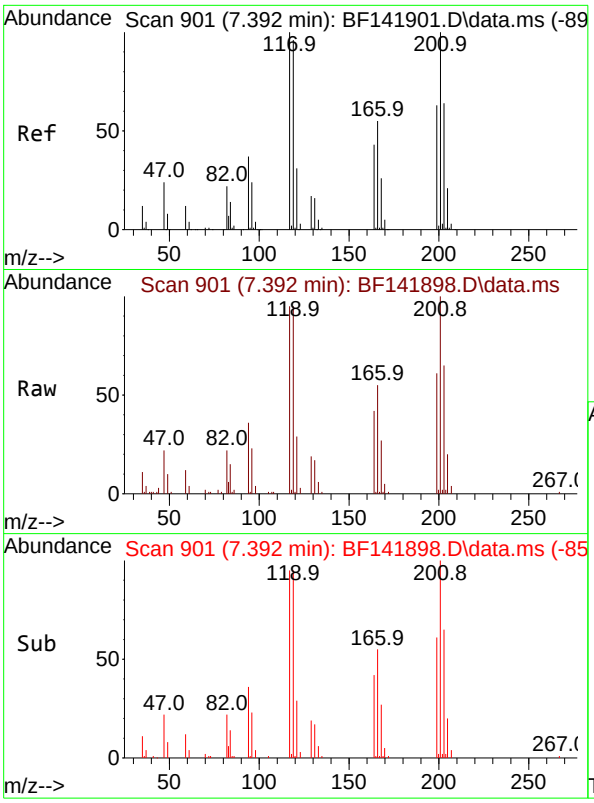


#17
2-Methylphenol
Concen: 5.114 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:107 Resp: 62211

Ion	Ratio	Lower	Upper
107	100		
108	112.2	90.2	135.2
77	47.6	39.6	59.4
79	48.5	39.1	58.7



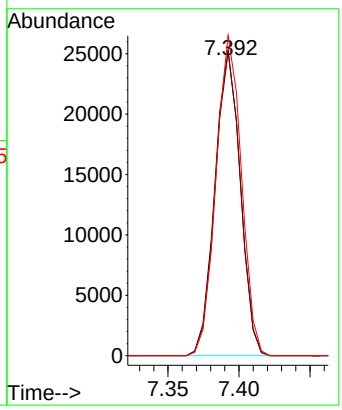


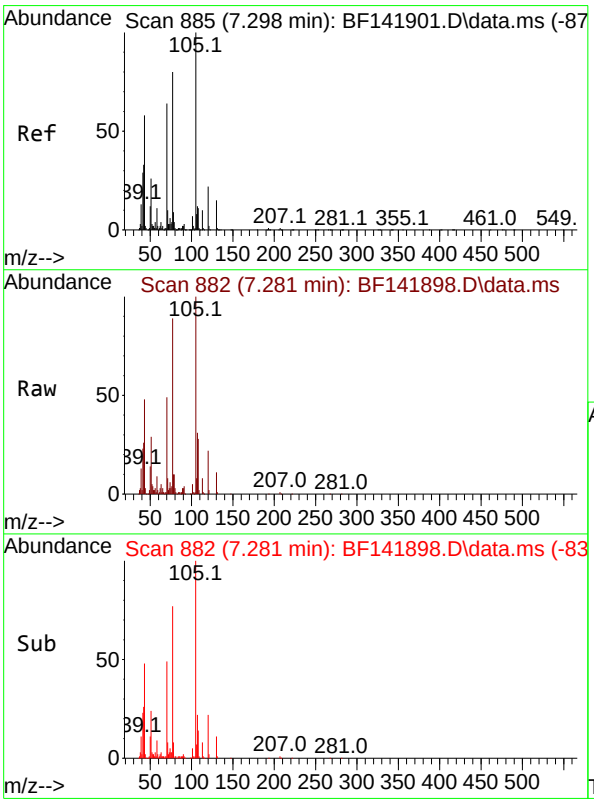
#18
Hexachloroethane
Concen: 5.000 ng
RT: 7.392 min Scan# 9(
Delta R.T. -0.000 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:117 Resp: 31373

Ion	Ratio	Lower	Upper
117	100		
119	99.3	76.9	115.3
201	104.7	79.9	119.9

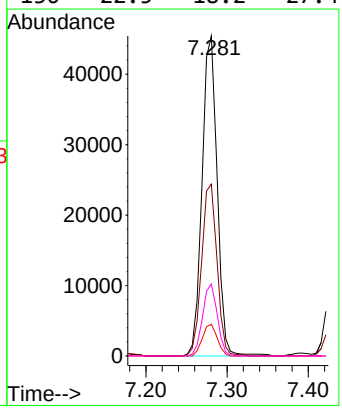


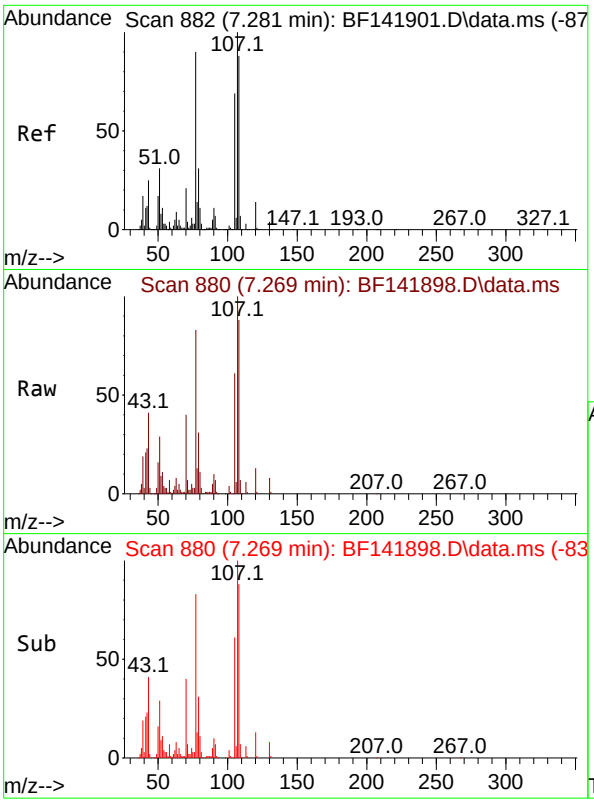


#19
n-Nitroso-di-n-propylamine
Concen: 5.218 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.018 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion: 70 Resp: 58981

Ion	Ratio	Lower	Upper
70	100		
42	53.7	41.4	62.0
101	9.9	8.2	12.2
130	22.5	18.2	27.4



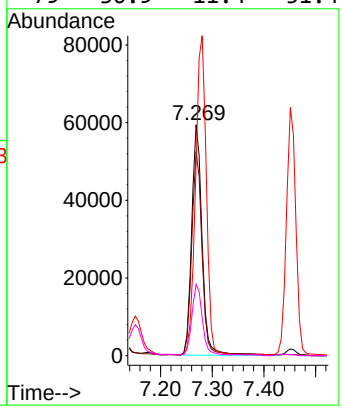


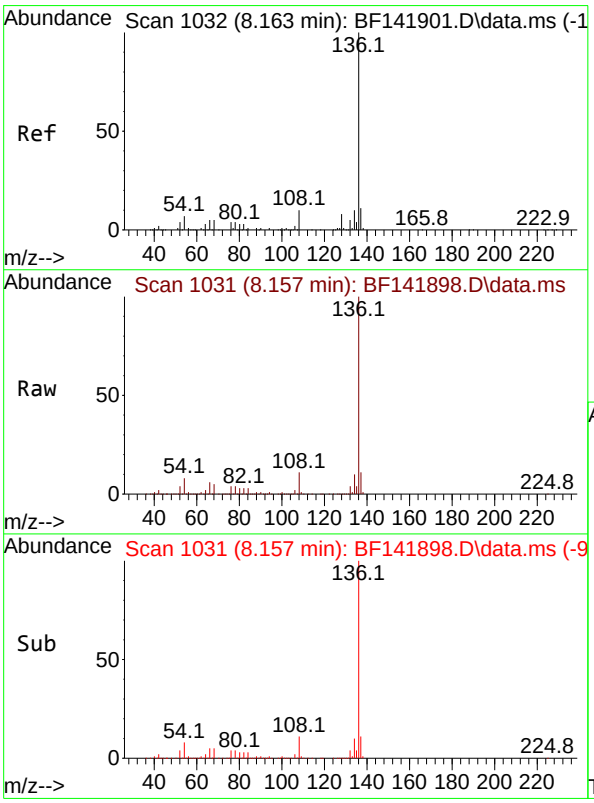
#20
3+4-Methylphenols
Concen: 5.349 ng
RT: 7.269 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 83461

Ion	Ratio	Lower	Upper
107	100		
108	88.4	68.4	108.4
77	83.1	69.7	109.7
79	30.9	11.4	51.4

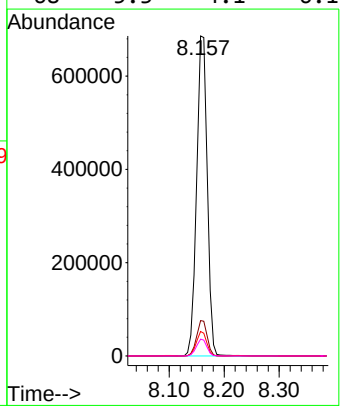


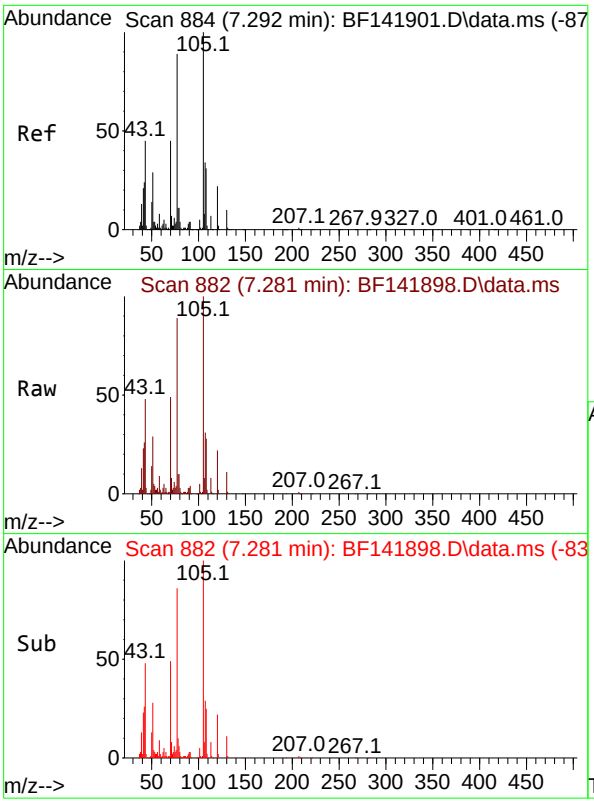


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:136 Resp: 926118

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	7.7	5.8	8.8
68	5.3	4.1	6.1



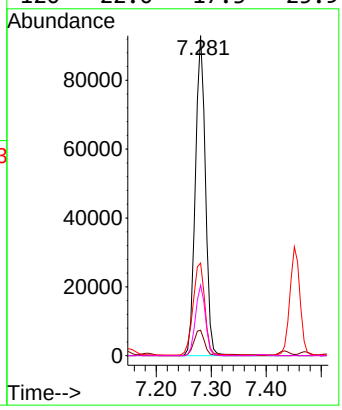


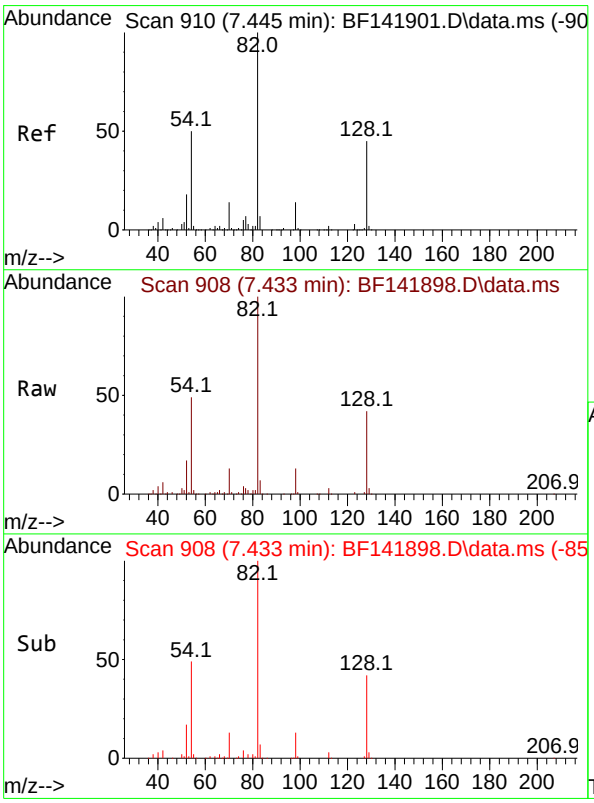
#22
Acetophenone
Concen: 5.358 ng
RT: 7.281 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:105 Resp: 119040

Ion	Ratio	Lower	Upper
105	100		
71	8.0	5.8	8.8
51	29.0	23.4	35.0
120	22.0	17.3	25.9

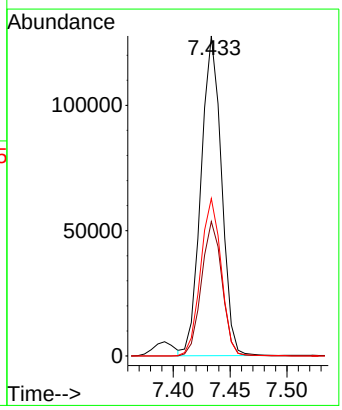


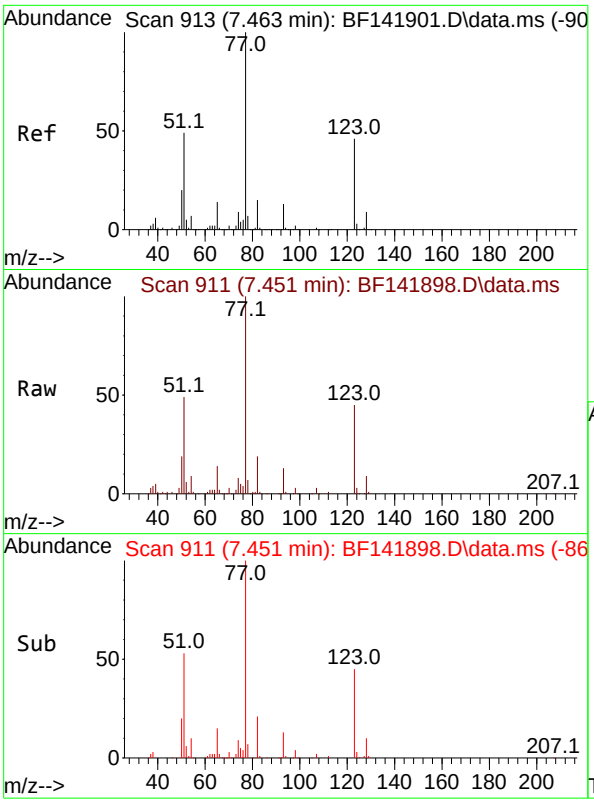


#23
Nitrobenzene-d5
Concen: 9.670 ng
RT: 7.433 min Scan# 908
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion: 82 Resp: 159777

Ion	Ratio	Lower	Upper
82	100		
128	42.0	36.0	54.0
54	49.2	39.6	59.4



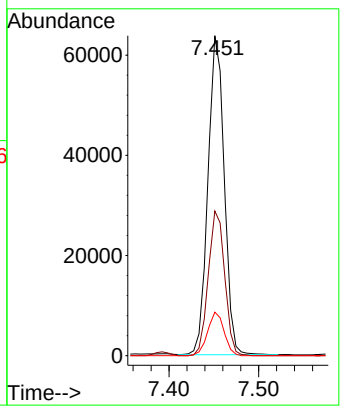


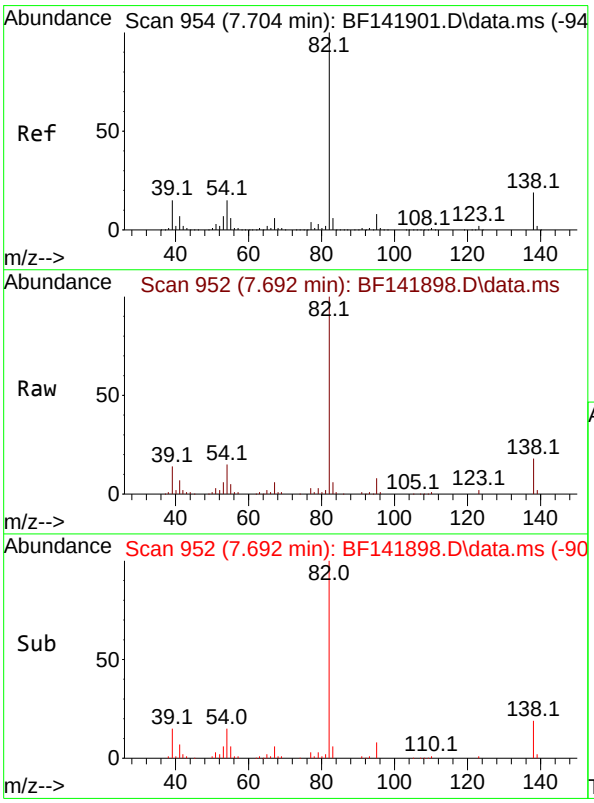
#24
Nitrobenzene
Concen: 4.904 ng
RT: 7.451 min Scan# 91
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 80338

Ion	Ratio	Lower	Upper
77	100		
123	45.2	37.0	55.4
65	13.6	11.3	16.9

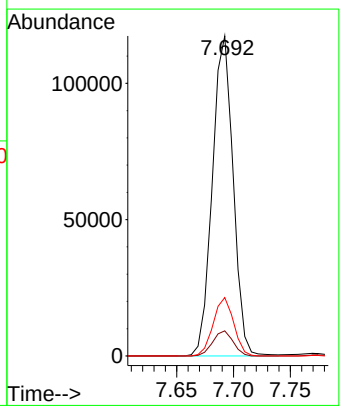


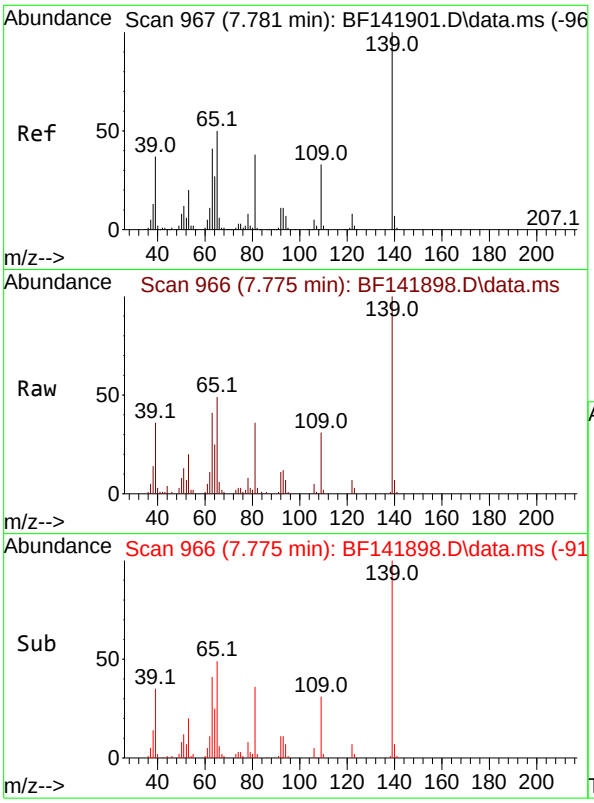


#25
Isophorone
Concen: 5.135 ng
RT: 7.692 min Scan# 952
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion: 82 Resp: 149807

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	18.3	14.9	22.3



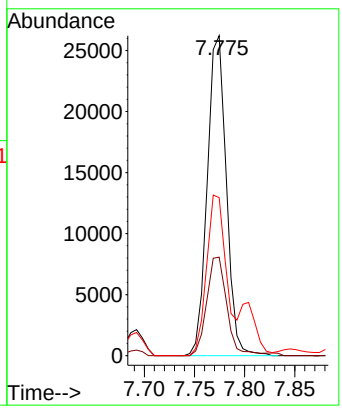


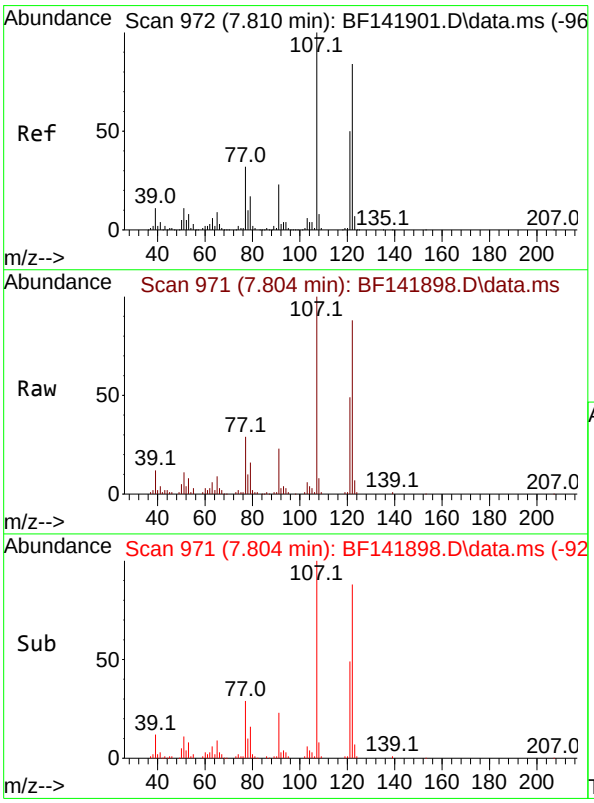
#26
2-Nitrophenol
Concen: 4.329 ng
RT: 7.775 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:139 Resp: 34757

Ion	Ratio	Lower	Upper
139	100		
109	30.8	26.5	39.7
65	49.4	40.3	60.5

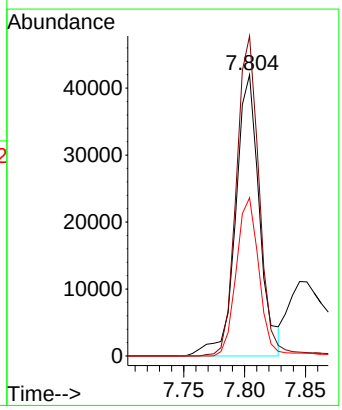


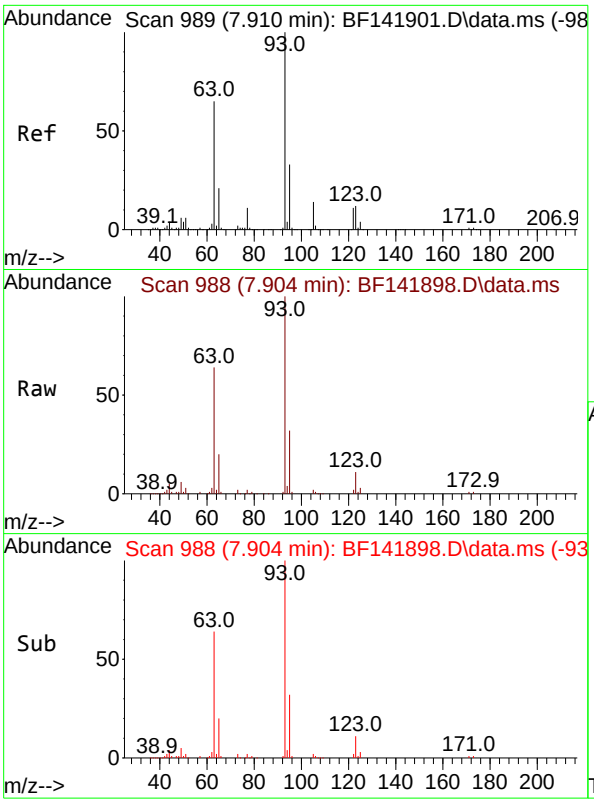


#27
2,4-Dimethylphenol
Concen: 5.164 ng
RT: 7.804 min Scan# 971
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:122 Resp: 57106

Ion	Ratio	Lower	Upper
122	100		
107	113.8	94.8	142.2
121	56.3	47.8	71.6



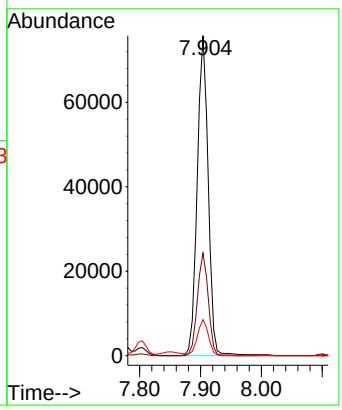


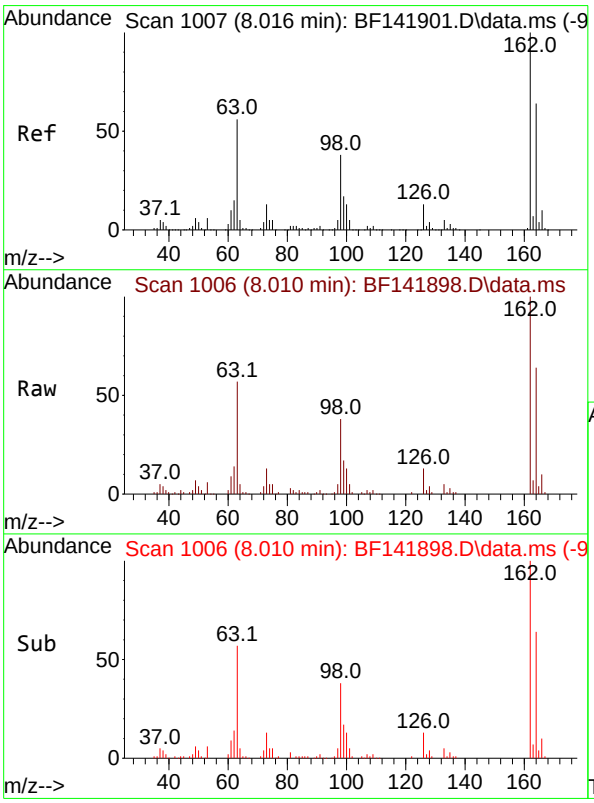
#28
bis(2-Chloroethoxy)methane
Concen: 5.210 ng
RT: 7.904 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 95214

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.6	40.0
123	11.3	10.2	15.4

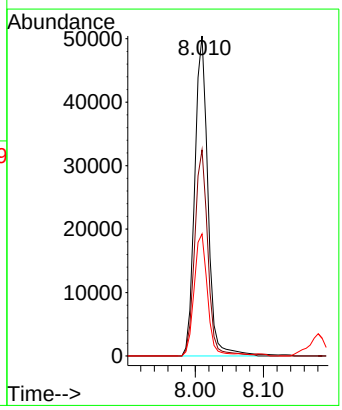


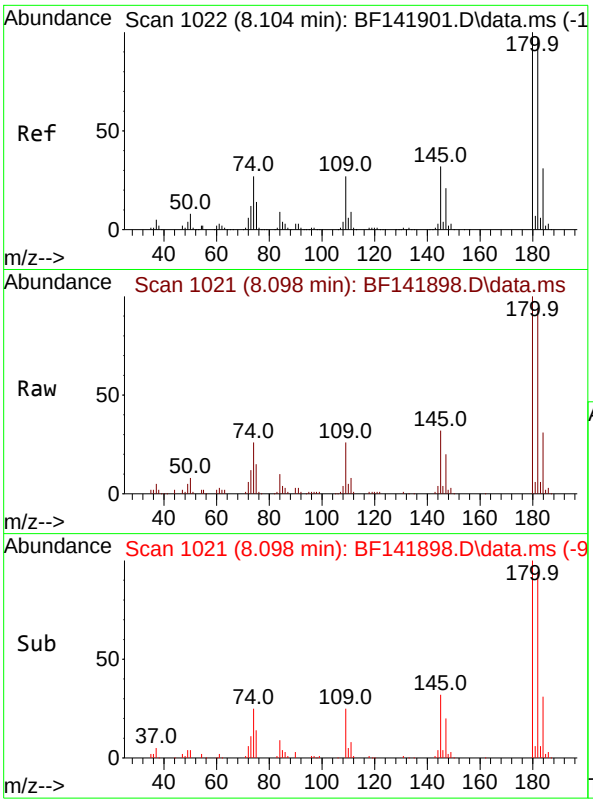


#29
2,4-Dichlorophenol
Concen: 4.934 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:162 Resp: 67710

Ion	Ratio	Lower	Upper
162	100		
164	64.4	43.8	83.8
98	38.2	18.1	58.1



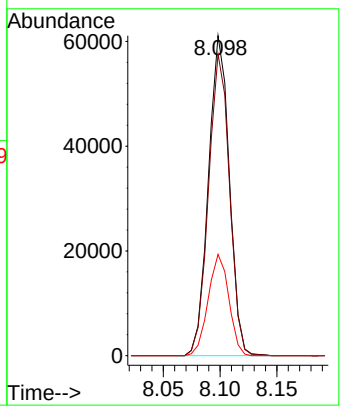


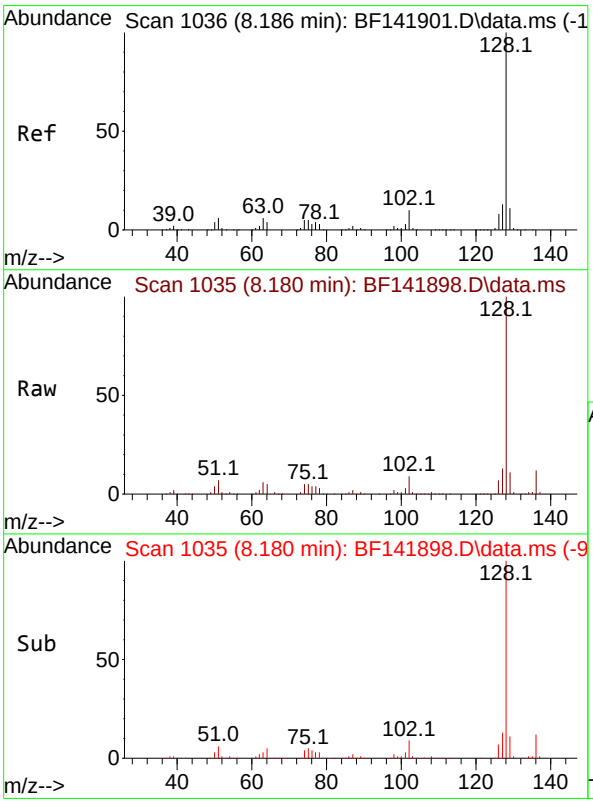
#30
1,2,4-Trichlorobenzene
Concen: 5.160 ng
RT: 8.098 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:180 Resp: 78127

Ion	Ratio	Lower	Upper
180	100		
182	94.3	77.5	116.3
145	31.6	25.8	38.6

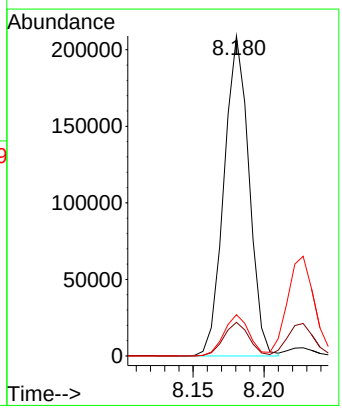


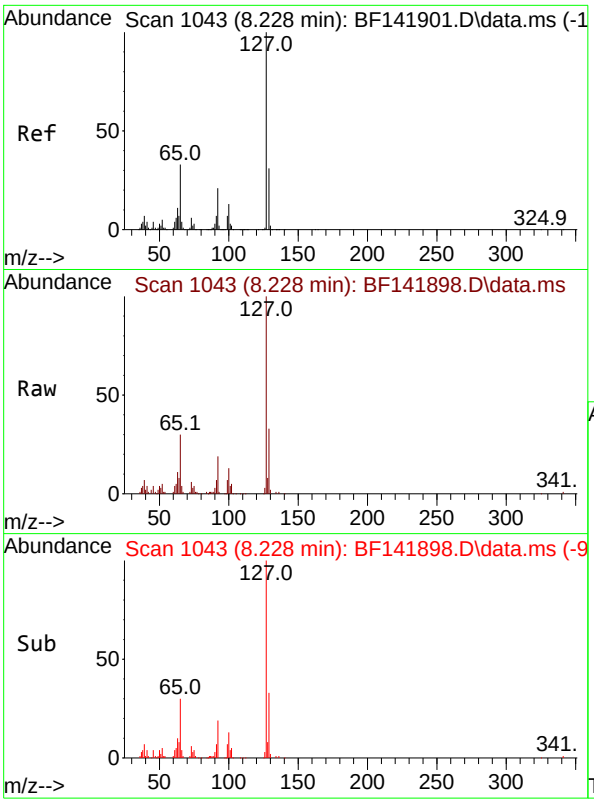


#31
Naphthalene
Concen: 5.388 ng
RT: 8.180 min Scan# 1035
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:128 Resp: 255632

Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.0	13.6
127	12.9	10.8	16.2



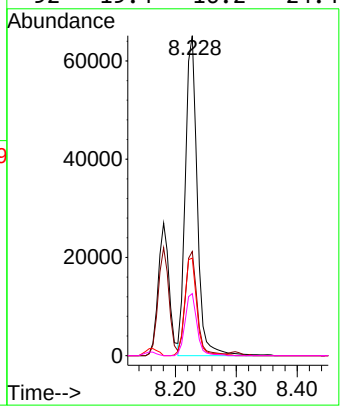


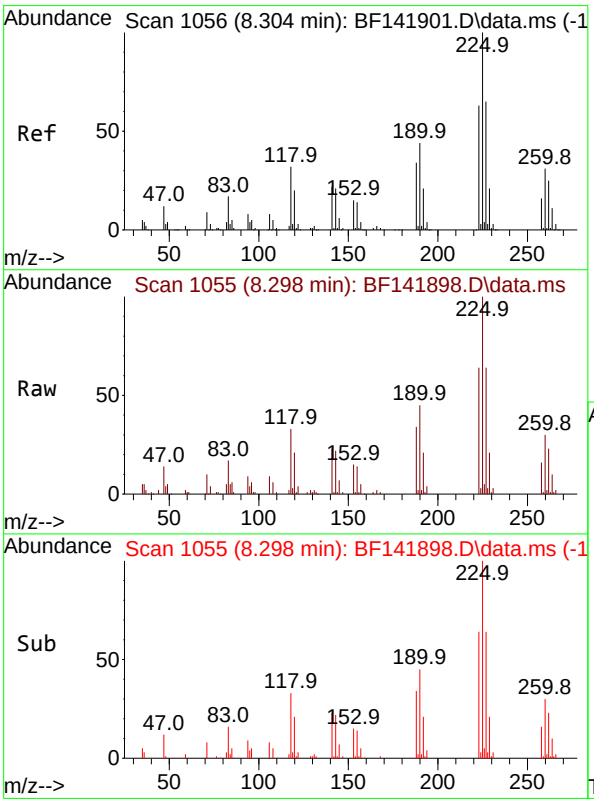
#33
4-Chloroaniline
Concen: 5.294 ng
RT: 8.228 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:127 Resp: 88635

Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.2	39.4
65	30.5	25.4	38.2
92	19.4	16.2	24.4

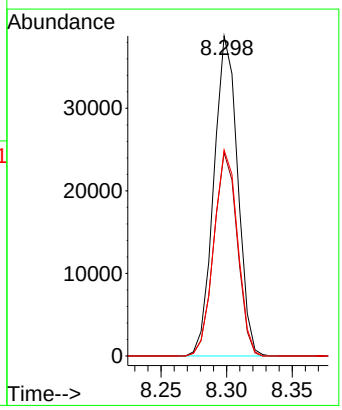


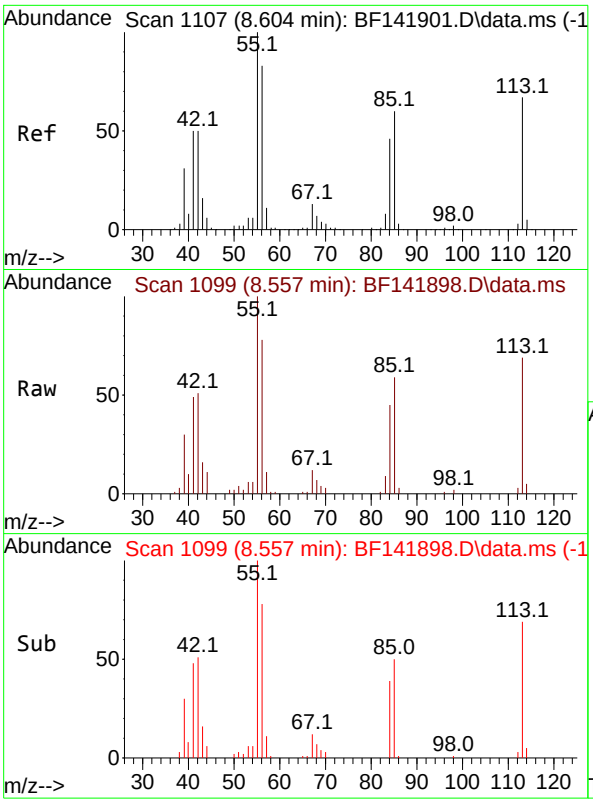


#34
Hexachlorobutadiene
Concen: 4.966 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:225 Resp: 48885

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.6	75.8
227	64.4	52.2	78.2



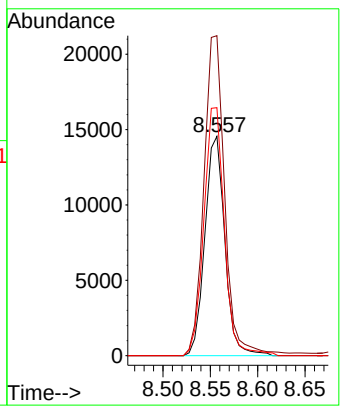


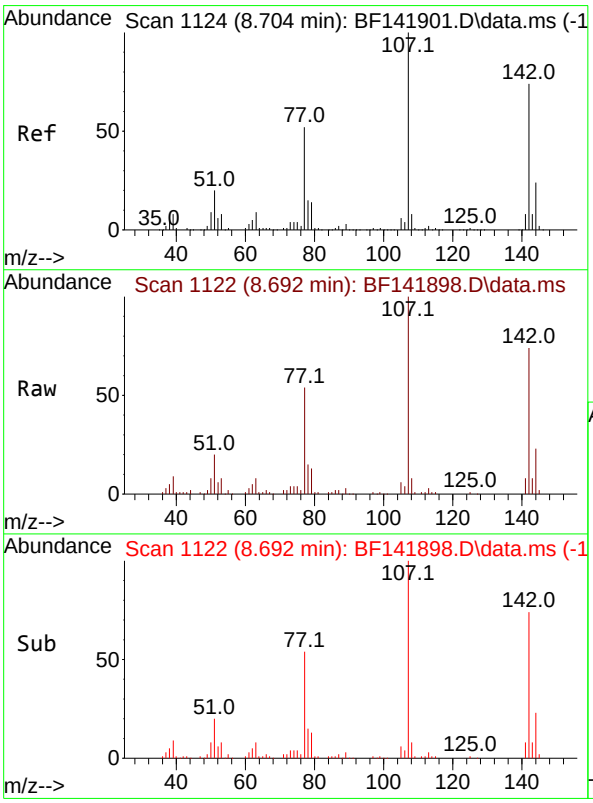
#35
Caprolactam
Concen: 5.118 ng
RT: 8.557 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:113 Resp: 21358

Ion	Ratio	Lower	Upper
113	100		
55	145.9	129.6	169.6
56	113.1	104.0	144.0

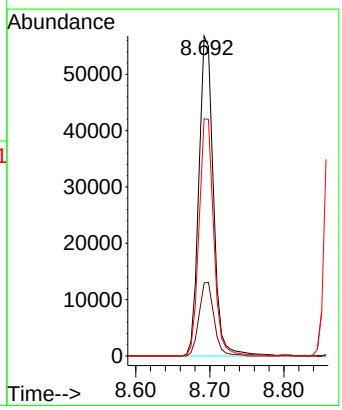


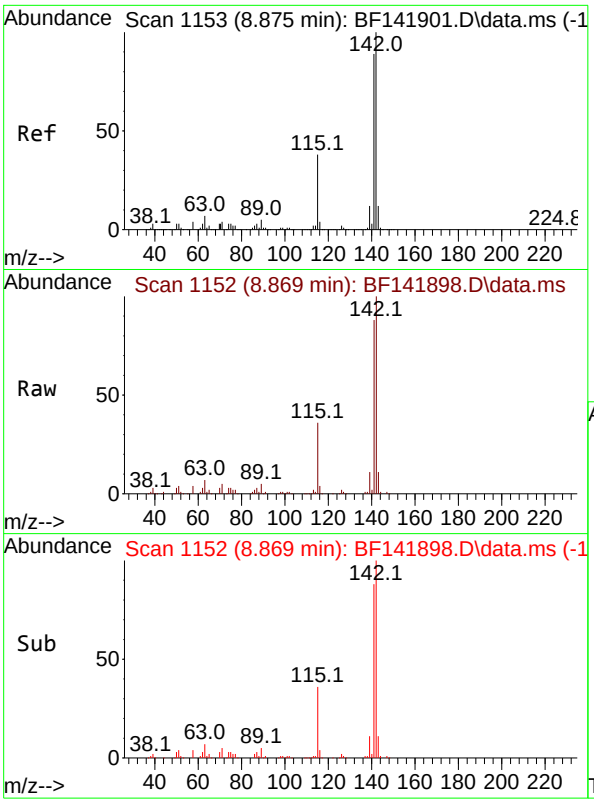


#36
4-Chloro-3-methylphenol
Concen: 5.070 ng
RT: 8.692 min Scan# 1122
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:107 Resp: 77370

Ion	Ratio	Lower	Upper
107	100		
144	22.8	19.0	28.6
142	74.2	59.2	88.8



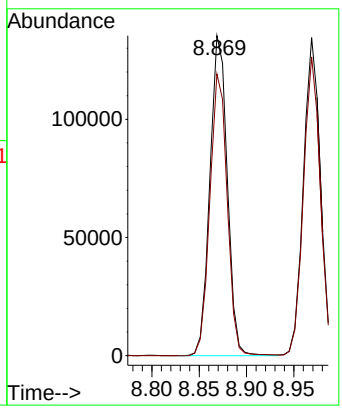


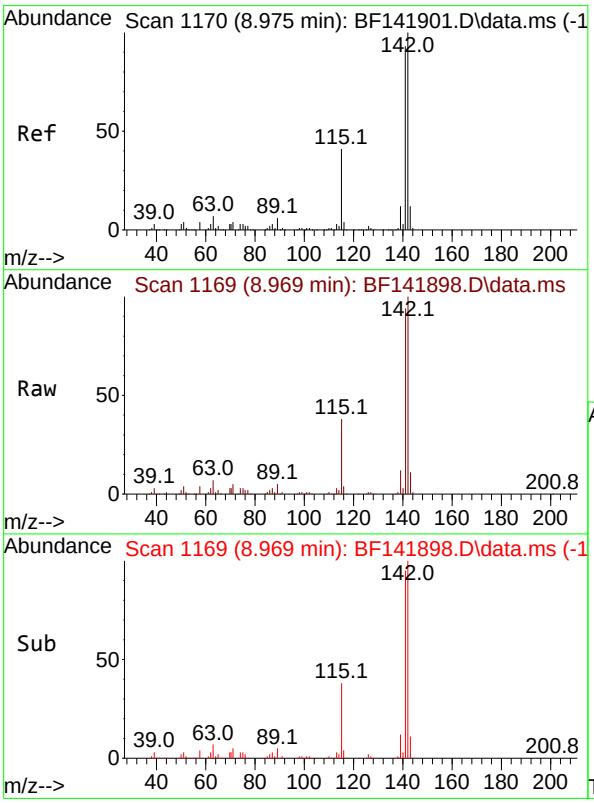
#37
2-Methylnaphthalene
Concen: 5.427 ng
RT: 8.869 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 172734

Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.2	106.8

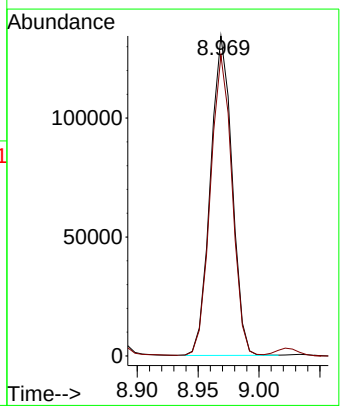


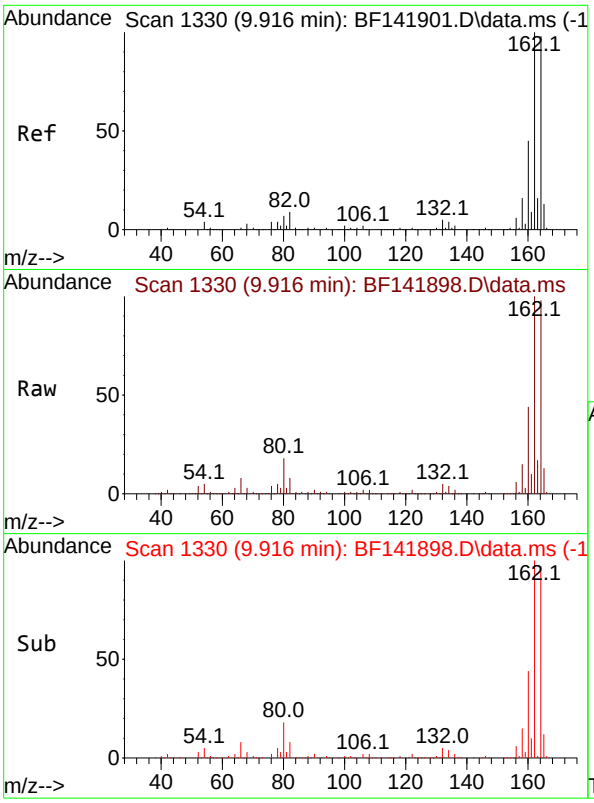


#38
1-Methylnaphthalene
Concen: 5.387 ng
RT: 8.969 min Scan# 1169
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:142 Resp: 166050

Ion	Ratio	Lower	Upper
142	100		
141	93.9	74.2	111.4



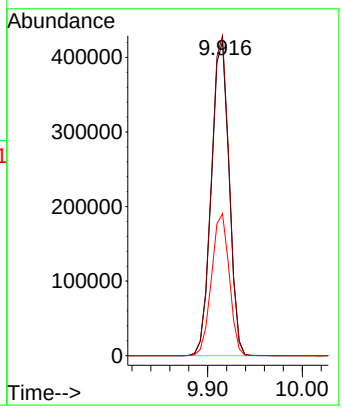


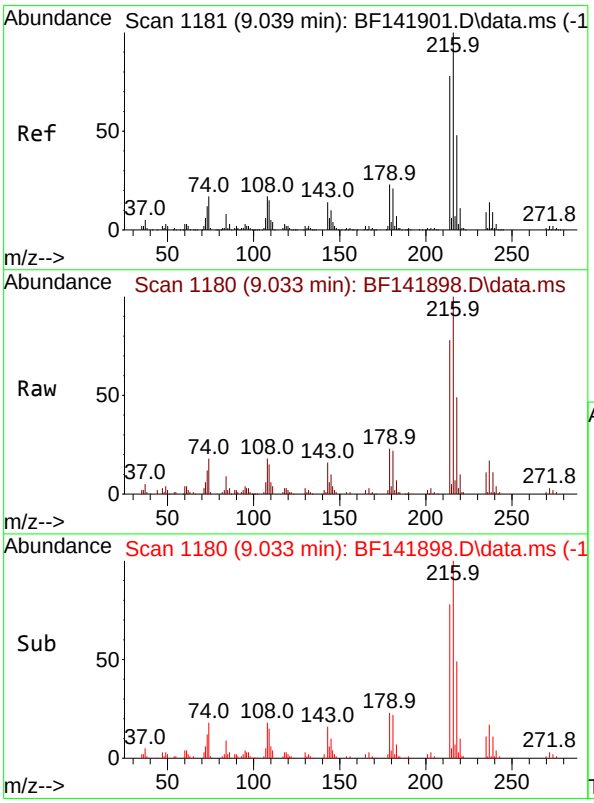
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:164 Resp: 546702

Ion	Ratio	Lower	Upper
164	100		
162	101.8	81.8	122.6
160	45.2	36.7	55.1

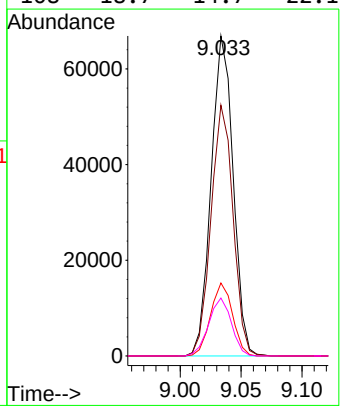


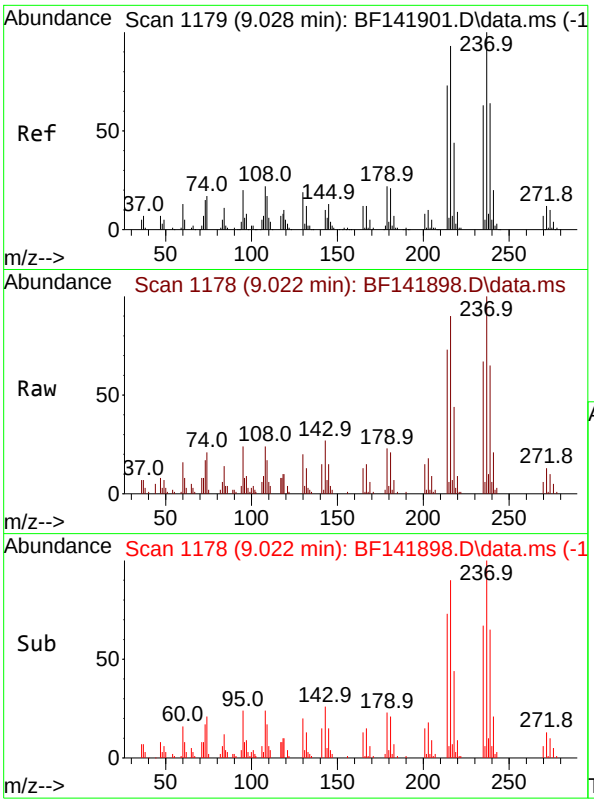


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.041 ng
RT: 9.033 min Scan# 1180
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:216 Resp: 84034

Ion	Ratio	Lower	Upper
216	100		
214	78.6	61.9	92.9
179	22.8	18.1	27.1
108	18.7	14.7	22.1



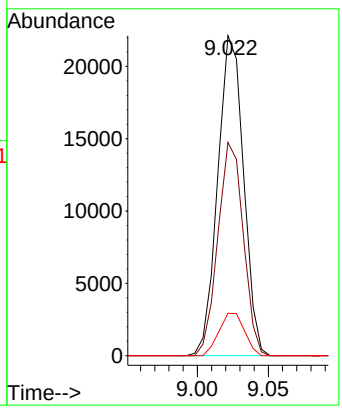


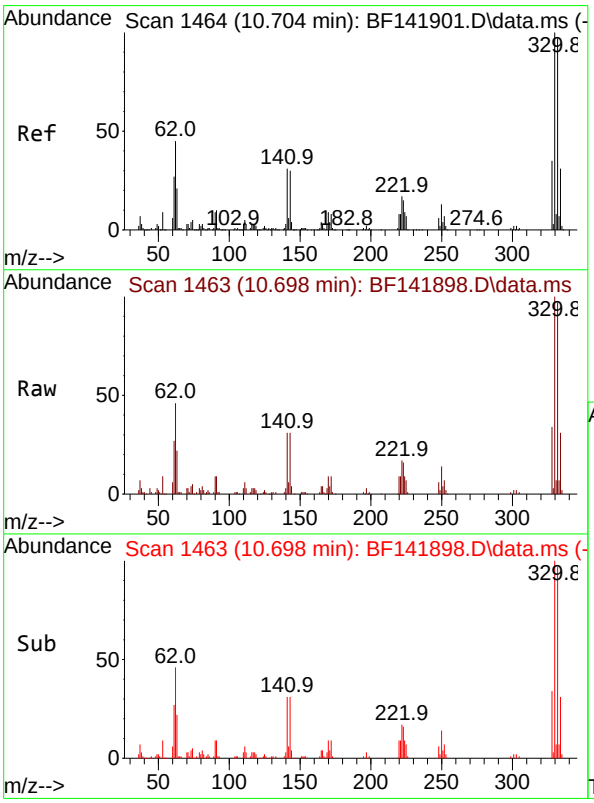
#41
Hexachlorocyclopentadiene
Concen: 4.246 ng
RT: 9.022 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:237 Resp: 27931

Ion	Ratio	Lower	Upper
237	100		
235	66.6	43.1	83.1
272	13.2	0.0	32.0

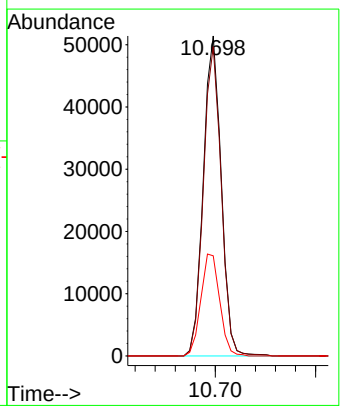


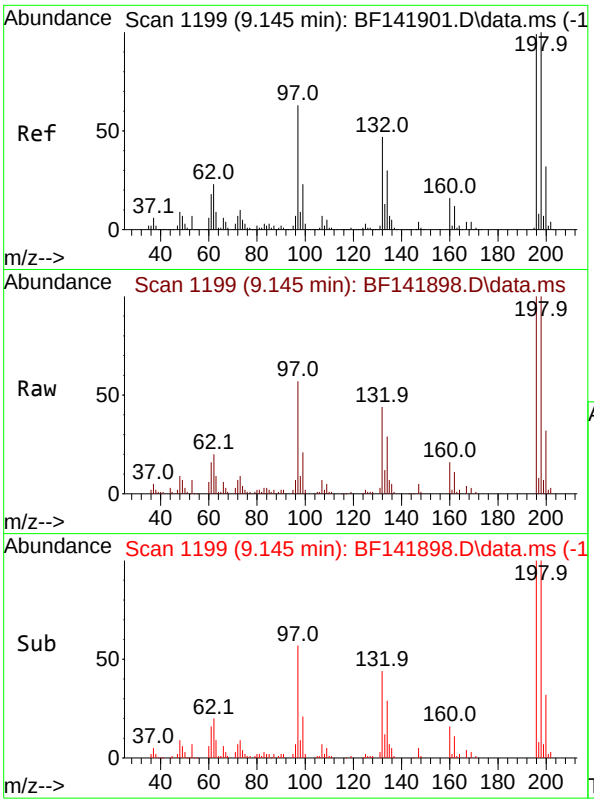


#42
2,4,6-Tribromophenol
Concen: 9.238 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:330 Resp: 63996

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.6	116.4
141	33.4	24.7	37.1



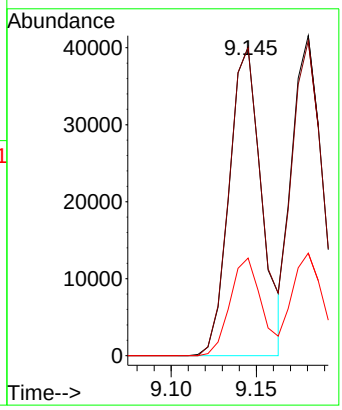


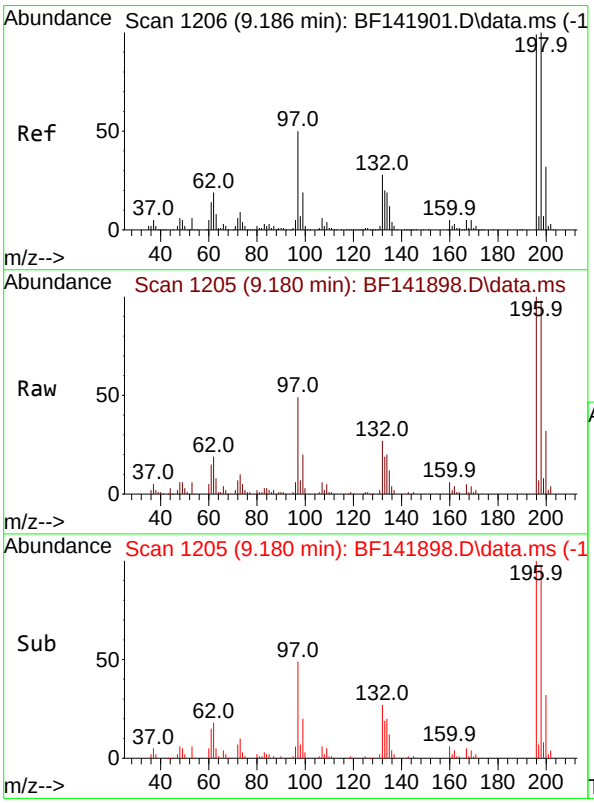
#43
2,4,6-Trichlorophenol
Concen: 4.877 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 52998

Ion	Ratio	Lower	Upper
196	100		
198	99.7	80.6	121.0
200	31.6	25.8	38.6

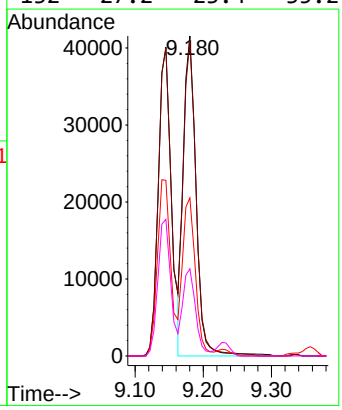


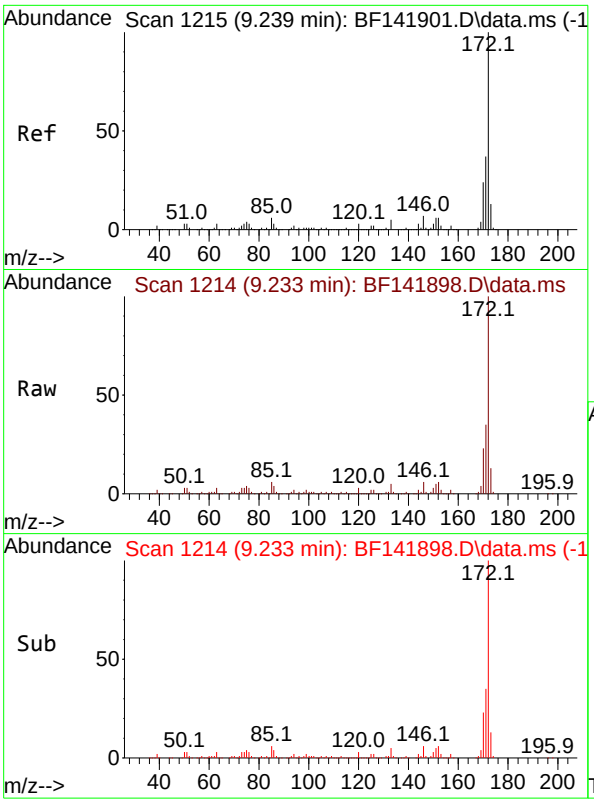


#44
2,4,5-Trichlorophenol
Concen: 4.901 ng
RT: 9.180 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:196 Resp: 54111

Ion	Ratio	Lower	Upper
196	100		
198	98.4	80.7	121.1
97	49.4	42.1	63.1
132	27.2	23.4	35.2



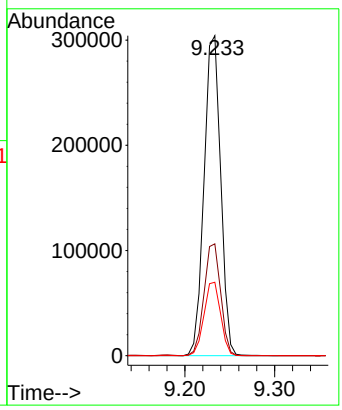


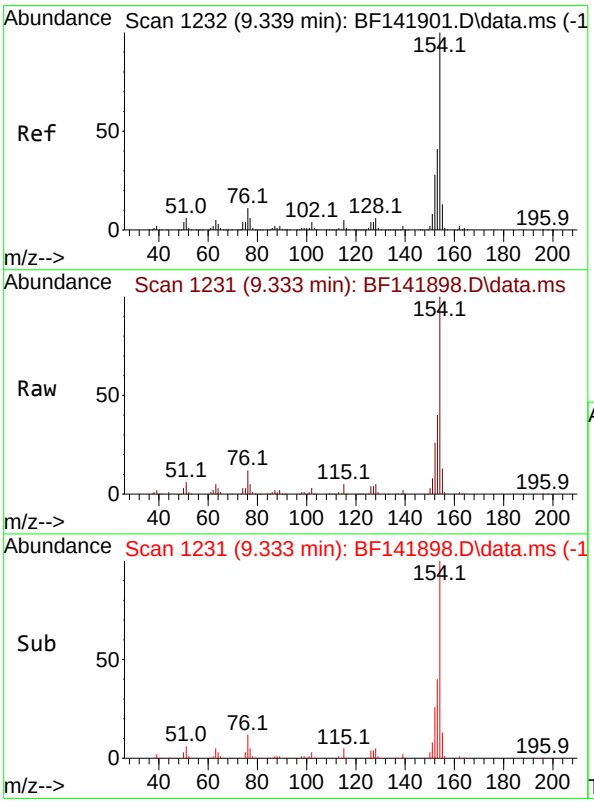
#45
2-Fluorobiphenyl
Concen: 10.888 ng
RT: 9.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:172 Resp: 390913

Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.3	43.9
170	23.0	19.4	29.0

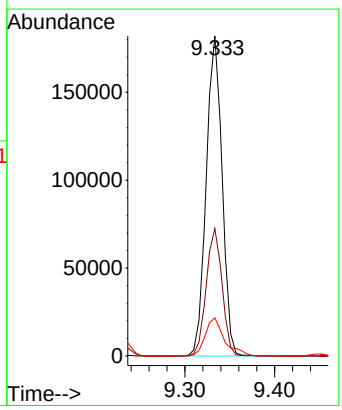


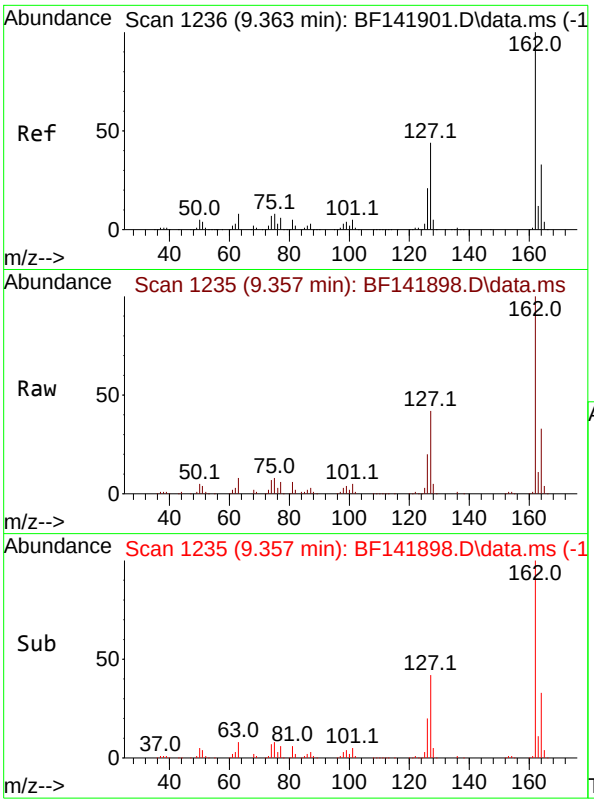


#46
1,1'-Biphenyl
Concen: 5.395 ng
RT: 9.333 min Scan# 1231
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:154 Resp: 223637

Ion	Ratio	Lower	Upper
154	100		
153	39.8	21.1	61.1
76	11.9	0.0	31.3



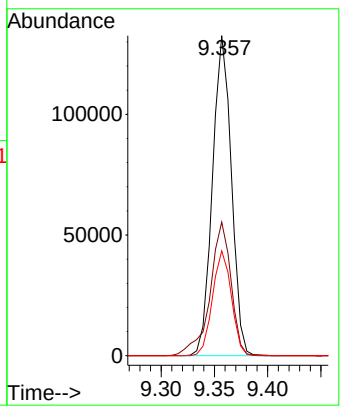


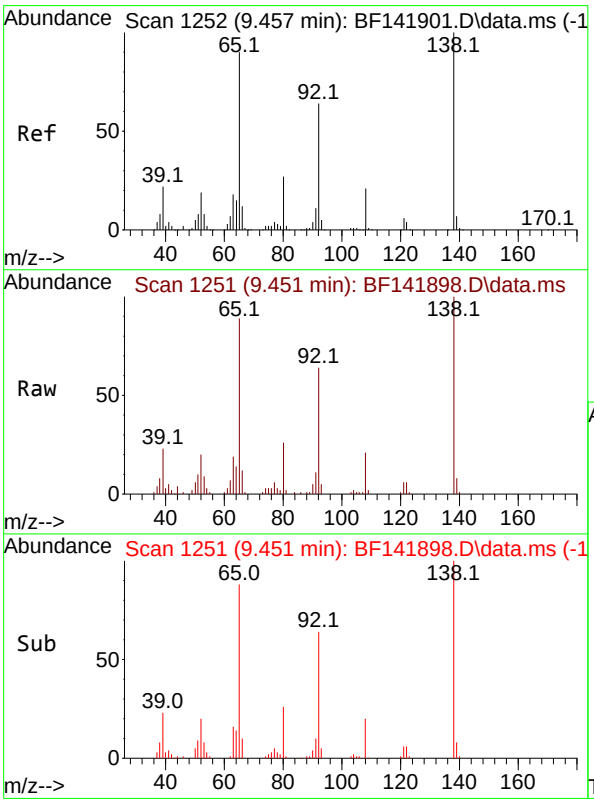
#47
2-Chloronaphthalene
Concen: 5.298 ng
RT: 9.357 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 163642

Ion	Ratio	Lower	Upper
162	100		
127	41.7	35.5	53.3
164	32.8	26.6	40.0

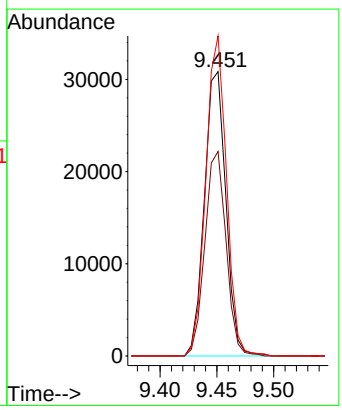


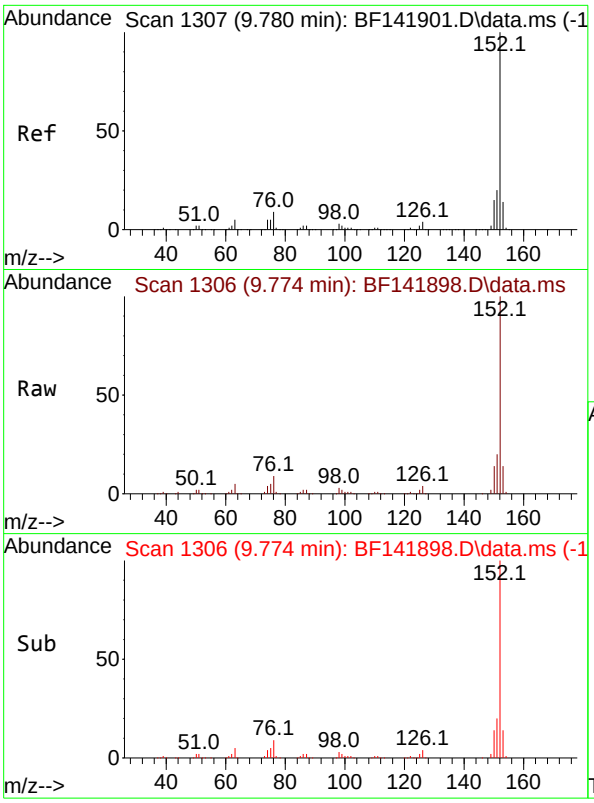


#48
2-Nitroaniline
Concen: 4.561 ng
RT: 9.451 min Scan# 1251
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion: 65 Resp: 40475

Ion	Ratio	Lower	Upper
65	100		
92	71.9	56.6	84.8
138	112.5	88.6	133.0



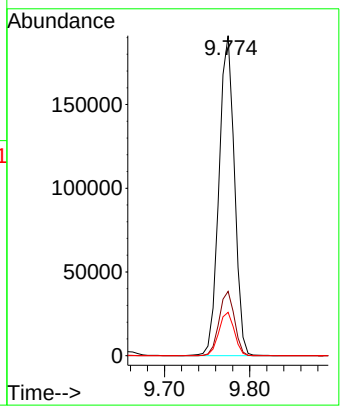


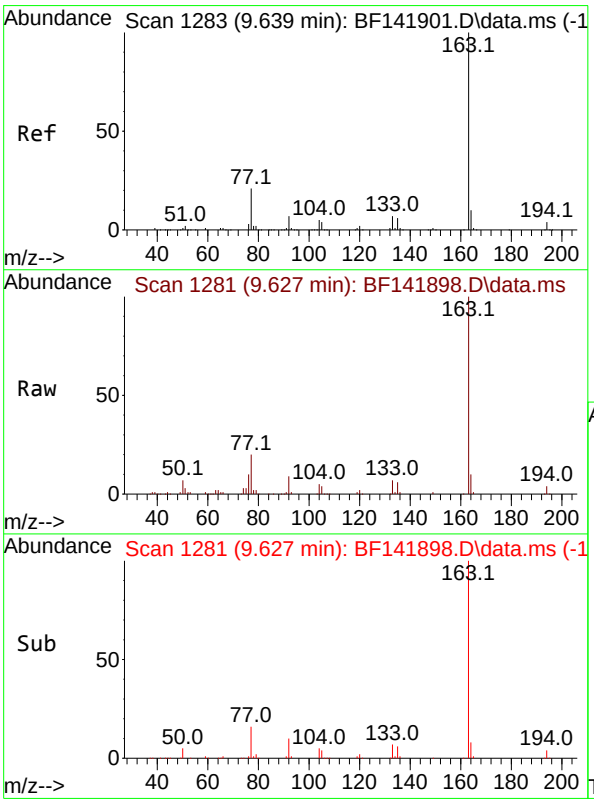
#49
Acenaphthylene
Concen: 5.268 ng
RT: 9.774 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 241253

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	13.6	11.1	16.7

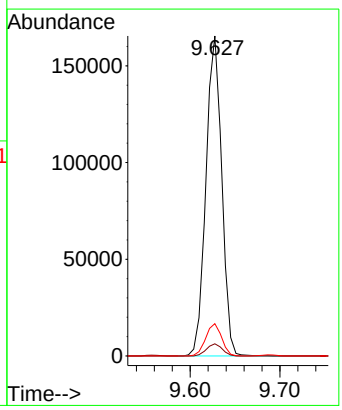


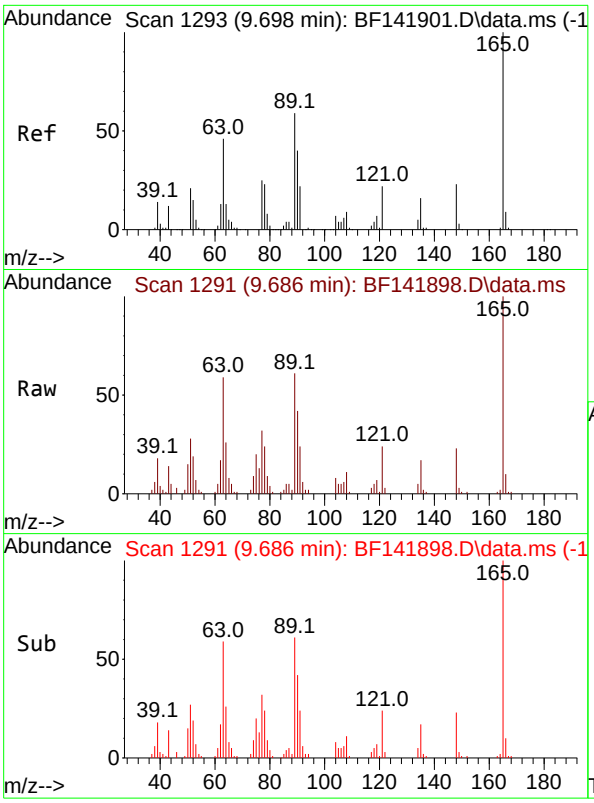


#50
Dimethylphthalate
Concen: 5.328 ng
RT: 9.627 min Scan# 1281
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:163 Resp: 202373

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.1	8.2	12.4



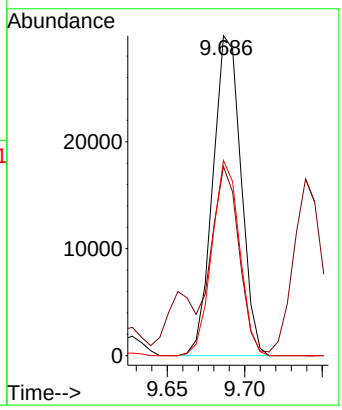


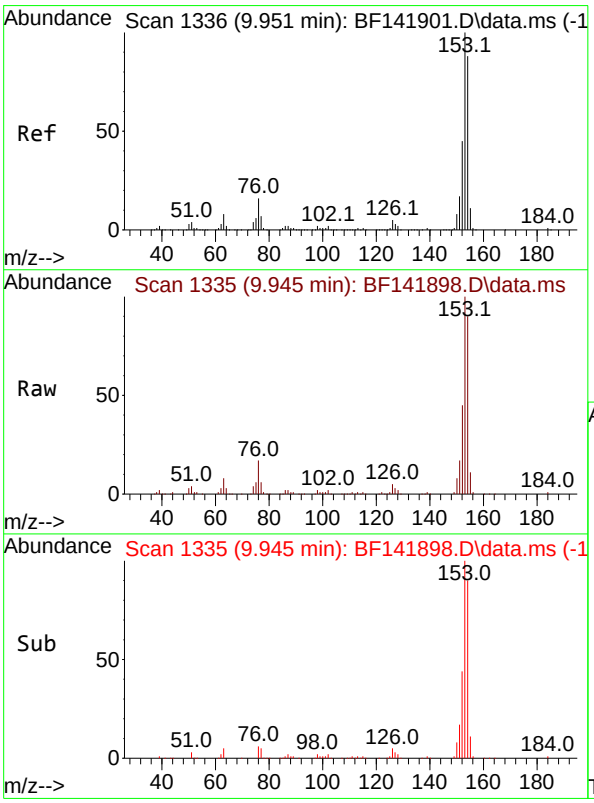
#51
2,6-Dinitrotoluene
Concen: 4.785 ng
RT: 9.686 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 37796

Ion	Ratio	Lower	Upper
165	100		
63	59.1	47.0	70.4
89	61.0	47.4	71.2

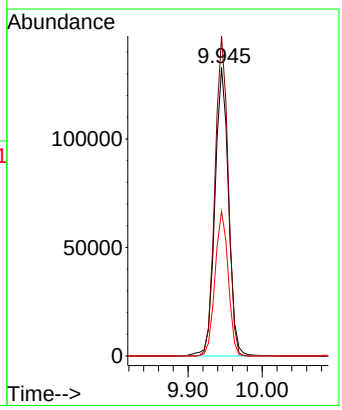


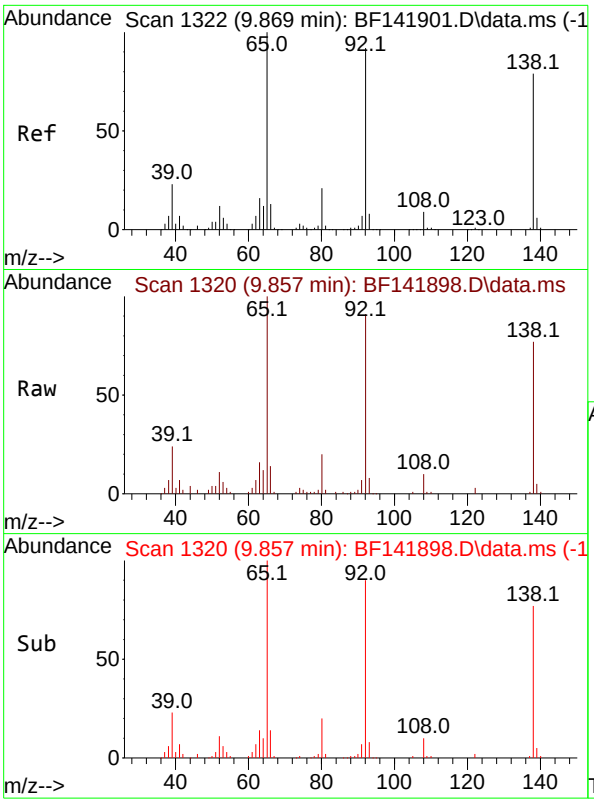


#52
Acenaphthene
Concen: 5.225 ng
RT: 9.945 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:154 Resp: 168975

Ion	Ratio	Lower	Upper
154	100		
153	111.0	90.7	136.1
152	50.2	41.1	61.7



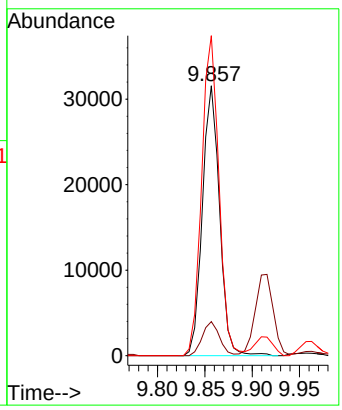


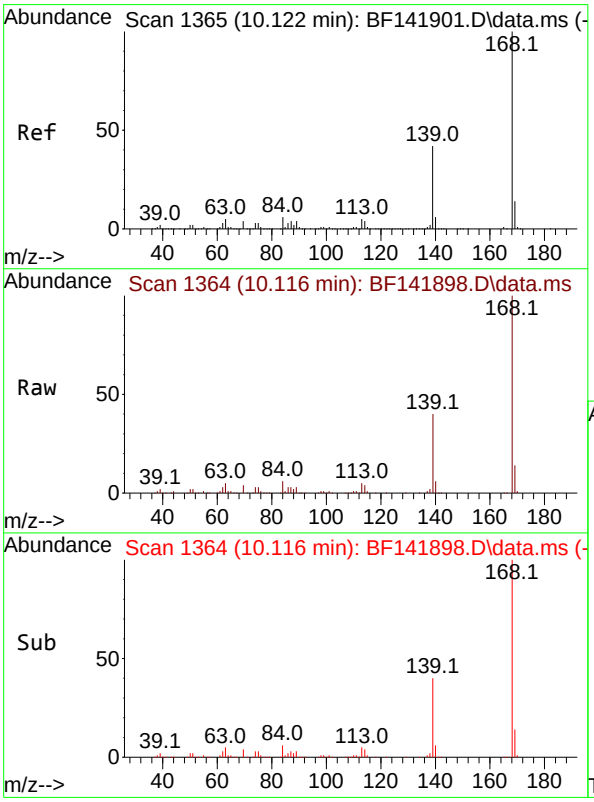
#53
3-Nitroaniline
Concen: 4.902 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 39761

Ion	Ratio	Lower	Upper
138	100		
108	12.6	9.3	13.9
92	118.6	93.5	140.3

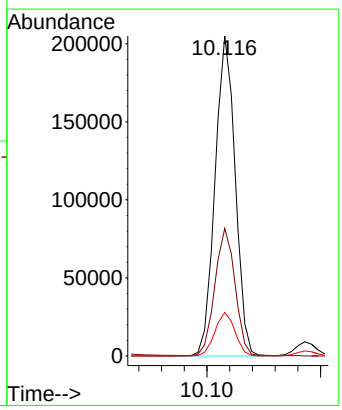


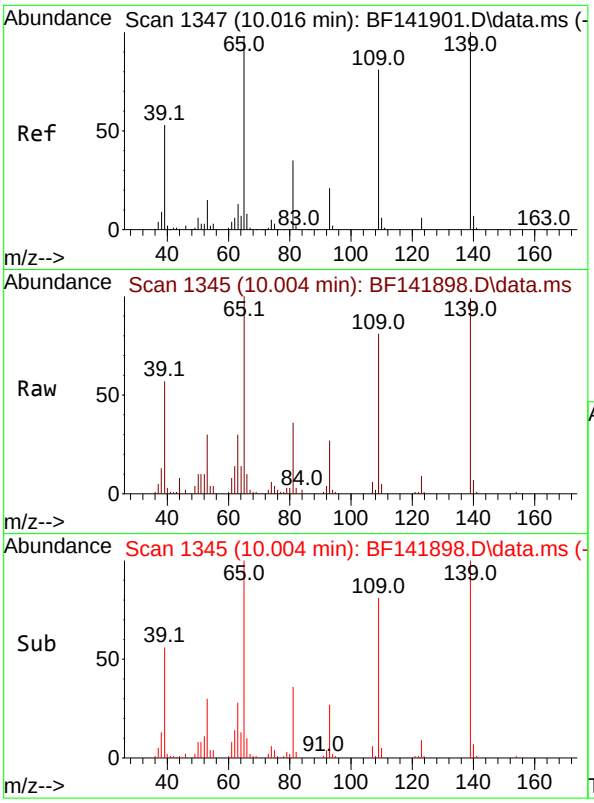


#55
Dibenzofuran
Concen: 5.481 ng
RT: 10.116 min Scan# 1364
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:168 Resp: 252715

Ion	Ratio	Lower	Upper
168	100		
139	39.8	33.9	50.9
169	13.6	11.0	16.4



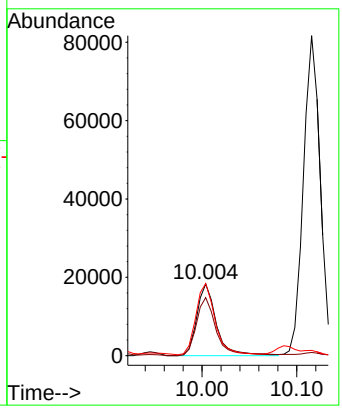


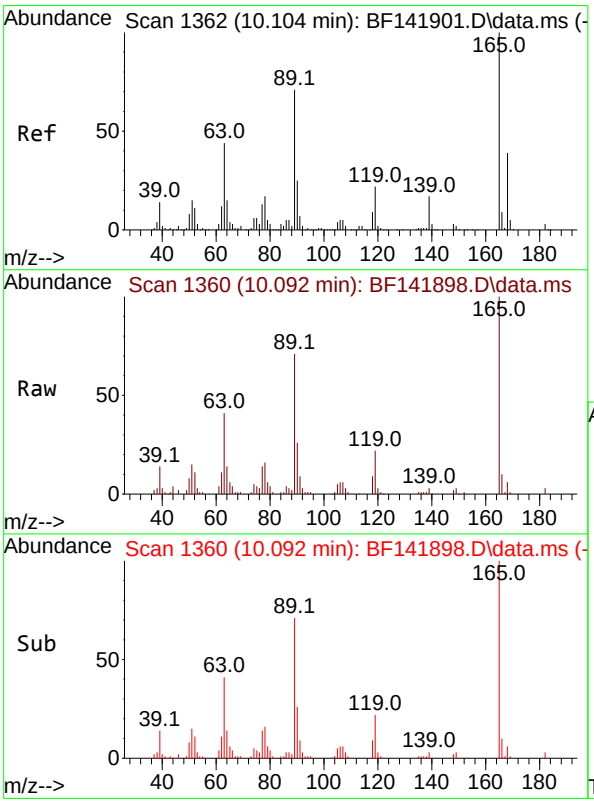
#56
4-Nitrophenol
Concen: 4.309 ng
RT: 10.004 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:139 Resp: 26252

Ion	Ratio	Lower	Upper
139	100		
109	81.1	61.6	101.6
65	100.7	79.4	119.4

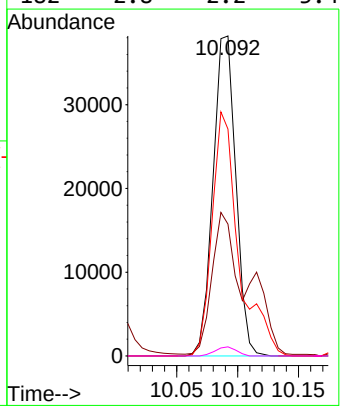


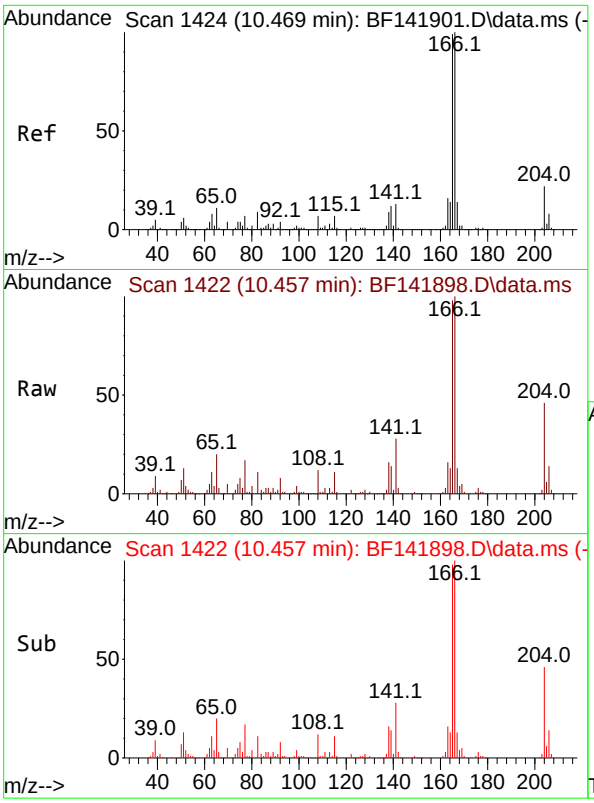


#57
2,4-Dinitrotoluene
Concen: 4.800 ng
RT: 10.092 min Scan# 1360
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:165 Resp: 49913

Ion	Ratio	Lower	Upper
165	100		
63	41.2	35.4	53.2
89	70.9	56.6	84.8
182	2.8	2.2	3.4



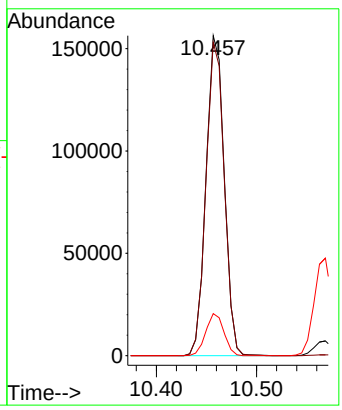


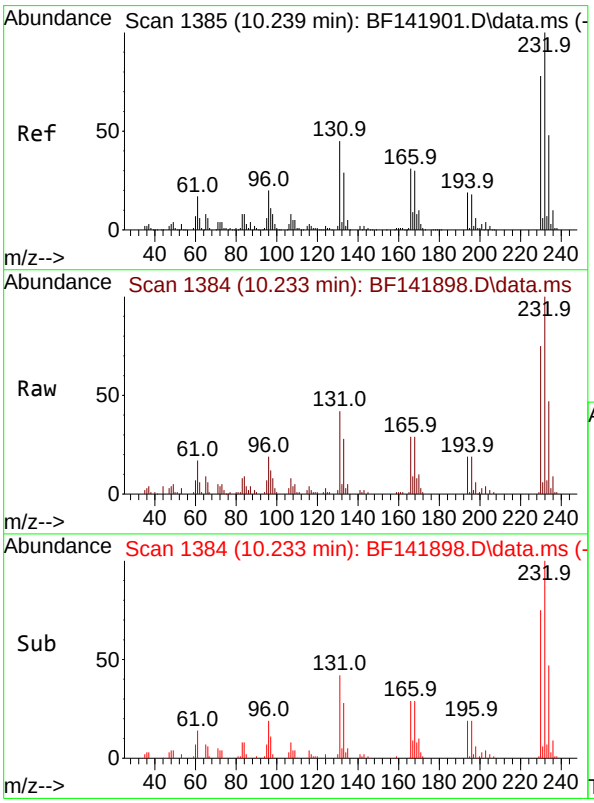
#58
Fluorene
Concen: 5.542 ng
RT: 10.457 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:166 Resp: 197266

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.0	118.4
167	13.2	11.0	16.4

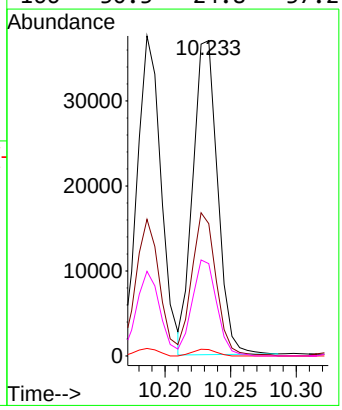


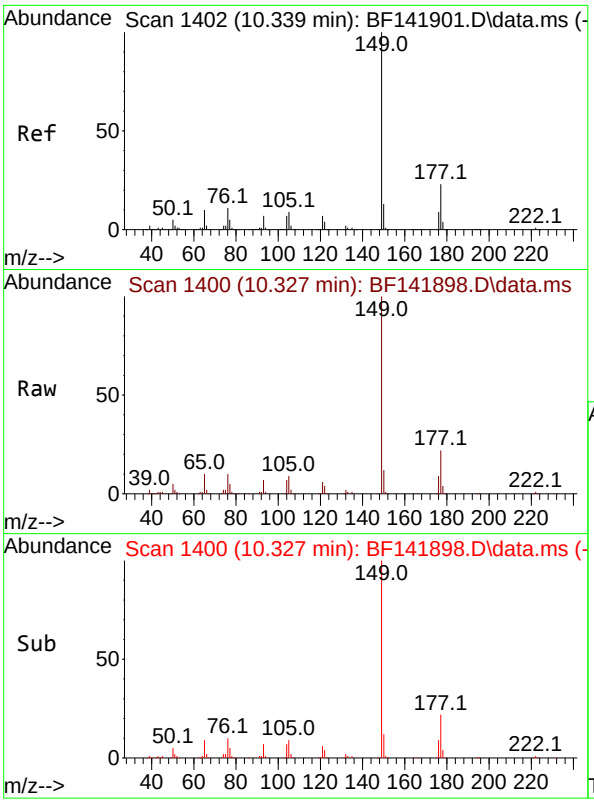


#59
2,3,4,6-Tetrachlorophenol
Concen: 4.839 ng
RT: 10.233 min Scan# 1384
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:232 Resp: 48472

Ion	Ratio	Lower	Upper
232	100		
131	44.9	37.3	55.9
130	2.1	1.9	2.9
166	30.3	24.8	37.2



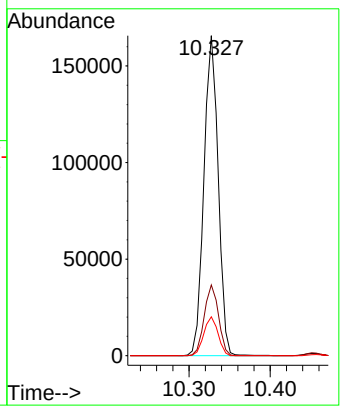


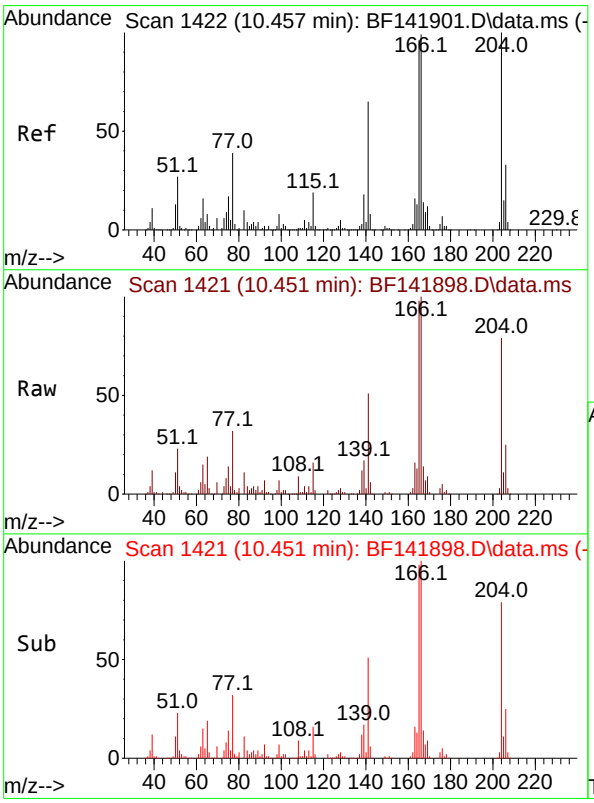
#60
Diethylphthalate
Concen: 5.286 ng
RT: 10.327 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 201554

Ion	Ratio	Lower	Upper
149	100		
177	22.1	18.0	27.0
150	12.1	10.2	15.4

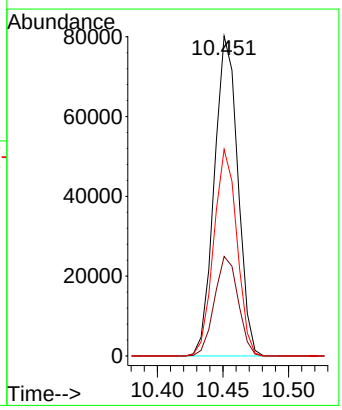


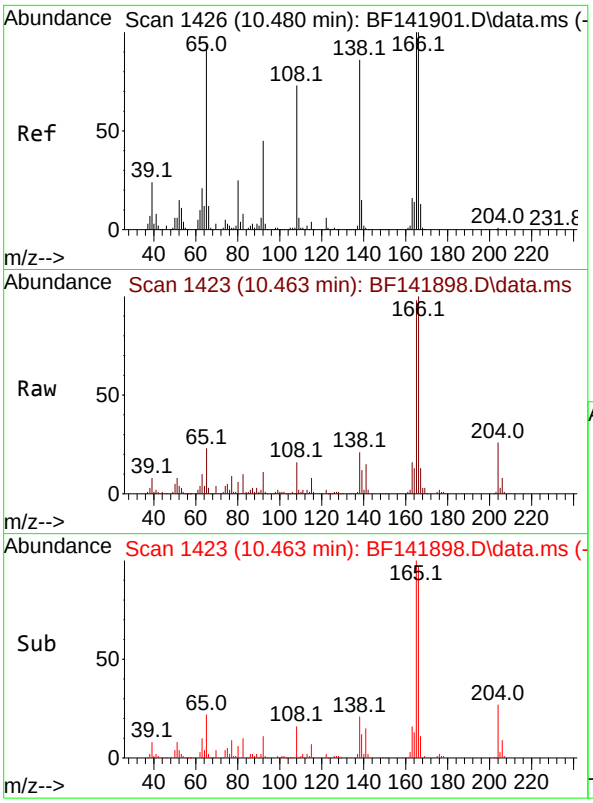


#61
4-Chlorophenyl-phenylether
Concen: 5.380 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:204 Resp: 99747

Ion	Ratio	Lower	Upper
204	100		
206	31.1	26.8	40.2
141	64.5	52.4	78.6



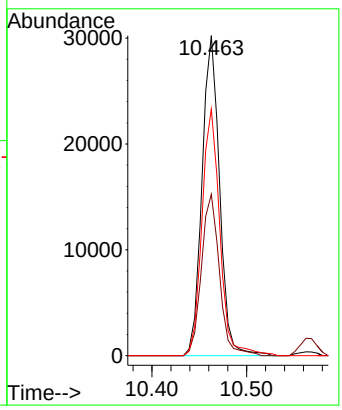


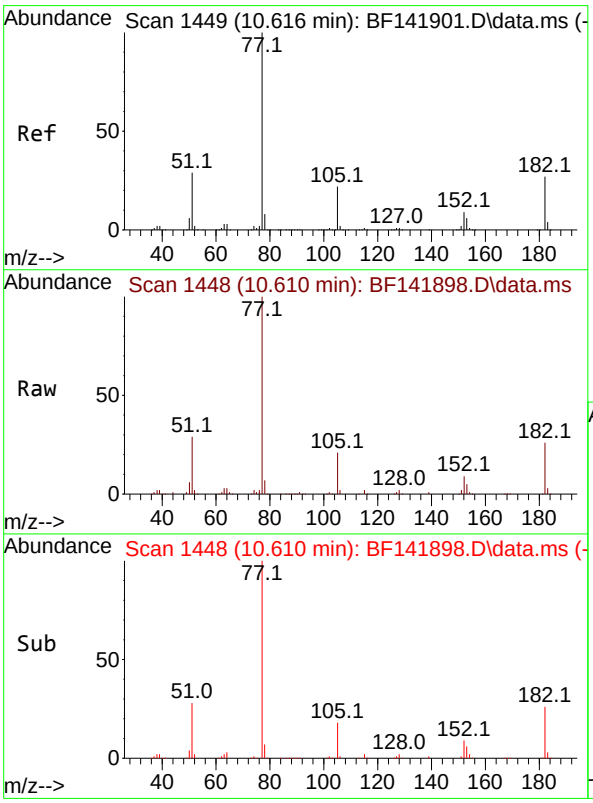
#62
4-Nitroaniline
Concen: 4.945 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 38863

Ion	Ratio	Lower	Upper
138	100		
92	50.5	32.6	72.6
108	77.1	65.0	105.0

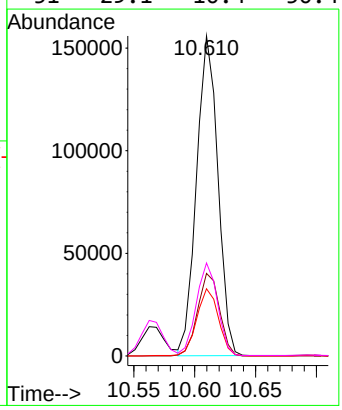


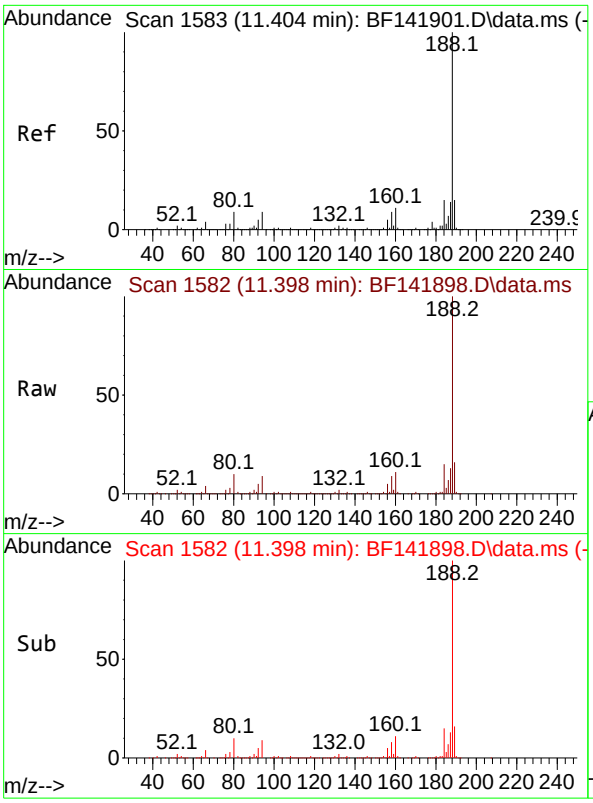


#63
Azobenzene
Concen: 5.370 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion: 77 Resp: 190233

Ion	Ratio	Lower	Upper
77	100		
182	25.8	6.6	46.6
105	21.0	1.3	41.3
51	29.1	10.4	50.4



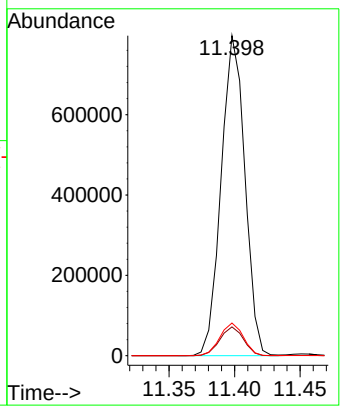


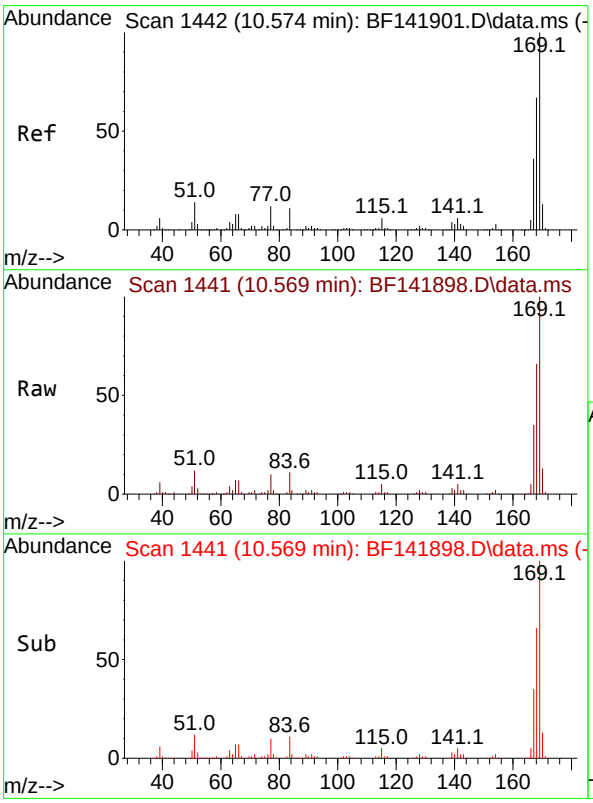
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:188 Resp: 1002901

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.8	10.2
80	10.2	7.6	11.4

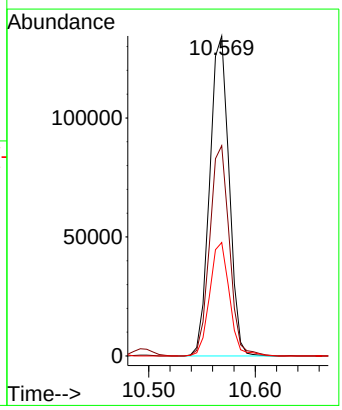


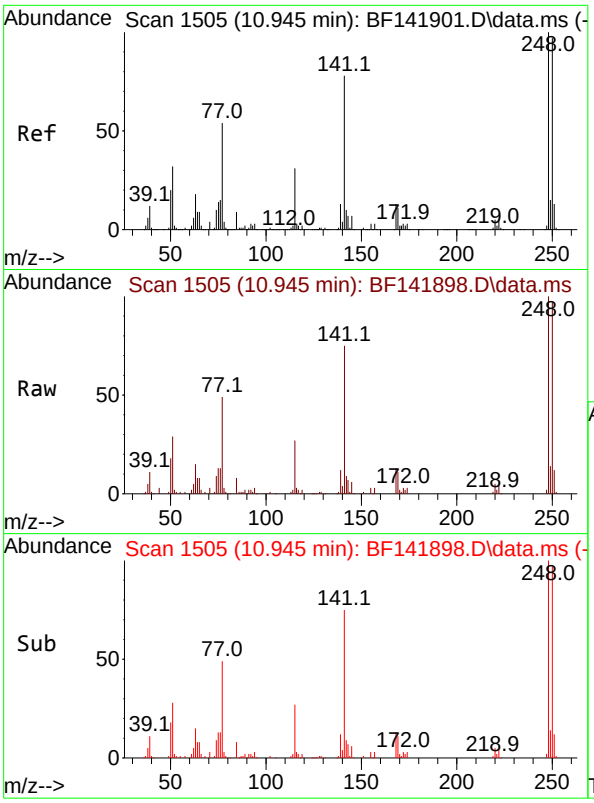


#66
n-Nitrosodiphenylamine
Concen: 5.223 ng
RT: 10.569 min Scan# 1441
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:169 Resp: 169225

Ion	Ratio	Lower	Upper
169	100		
168	65.7	53.7	80.5
167	35.5	29.2	43.8



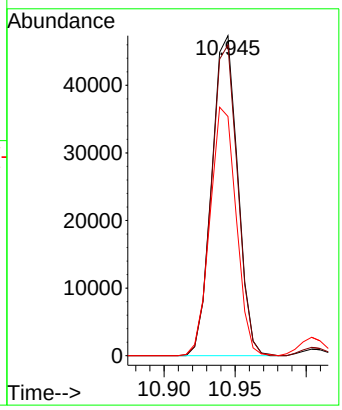


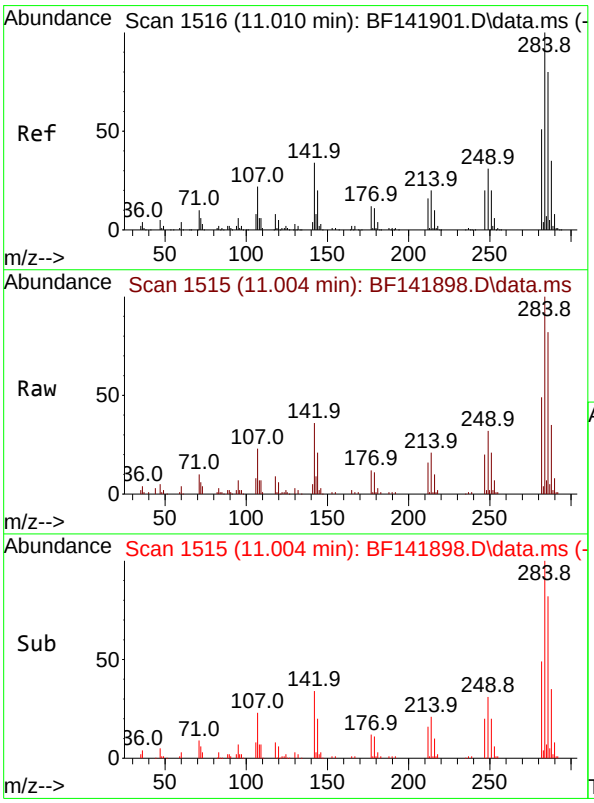
#67
4-Bromophenyl-phenylether
Concen: 4.823 ng
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:248 Resp: 60238

Ion	Ratio	Lower	Upper
248	100		
250	97.1	77.8	116.8
141	74.7	62.6	93.8

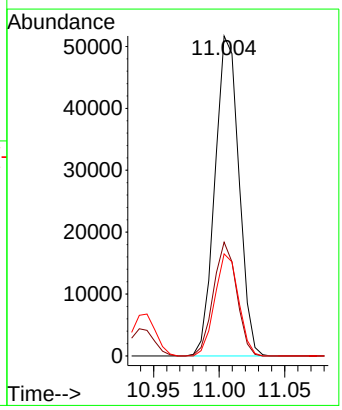


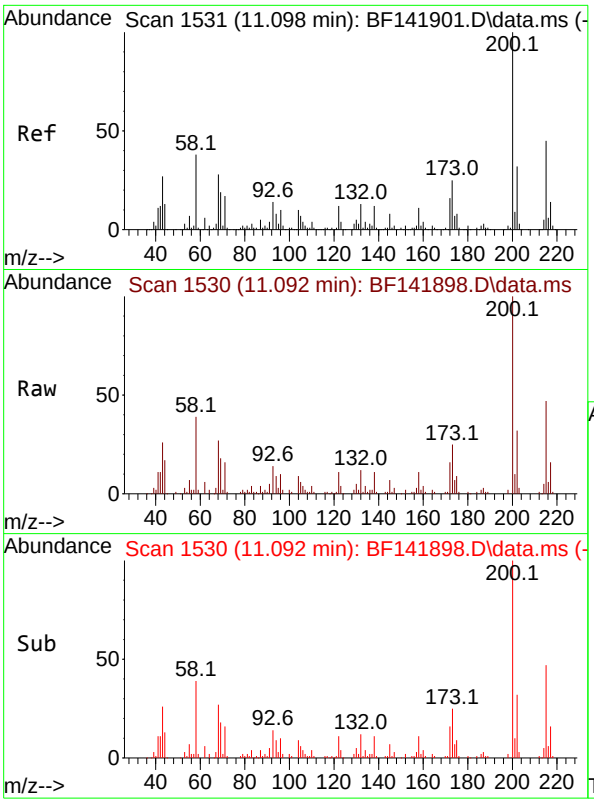


#68
Hexachlorobenzene
Concen: 4.753 ng
RT: 11.004 min Scan# 1515
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:284 Resp: 65620

Ion	Ratio	Lower	Upper
284	100		
142	35.6	27.0	40.6
249	31.9	25.2	37.8



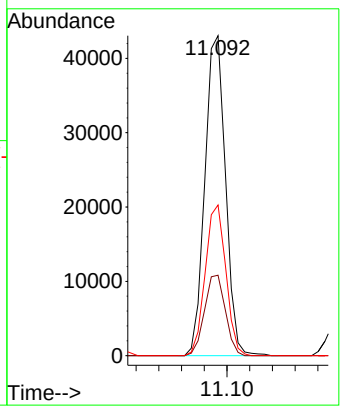


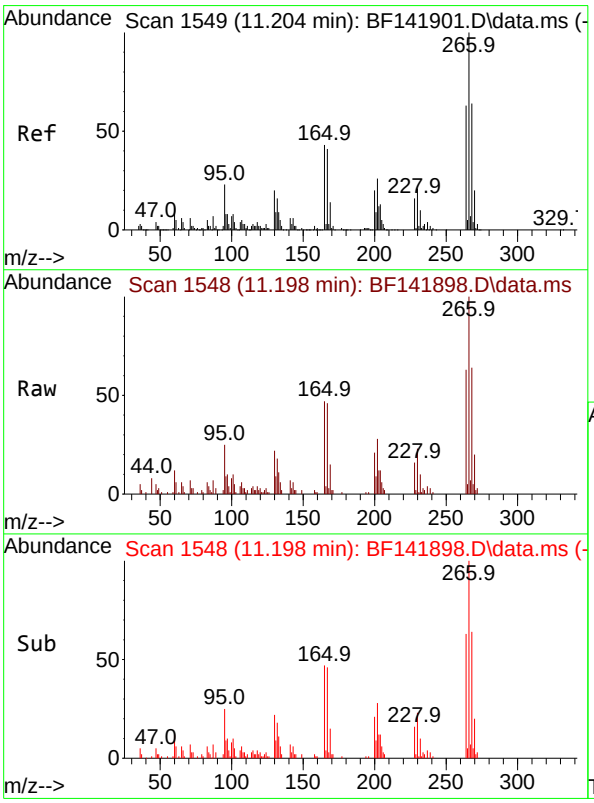
#69
Atrazine
Concen: 6.867 ng
RT: 11.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:200 Resp: 54251

Ion	Ratio	Lower	Upper
200	100		
173	25.1	4.7	44.7
215	47.1	25.4	65.4

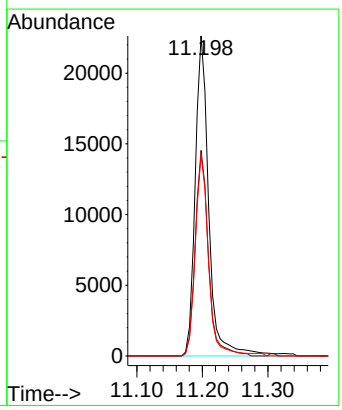


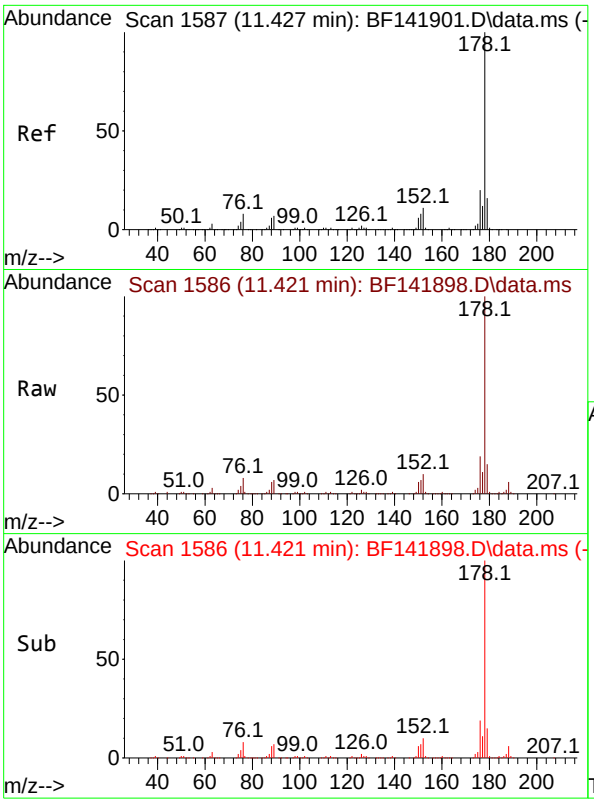


#70
Pentachlorophenol
Concen: 3.843 ng
RT: 11.198 min Scan# 1548
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:266 Resp: 32716

Ion	Ratio	Lower	Upper
266	100		
268	64.2	51.0	76.6
264	62.8	50.2	75.2



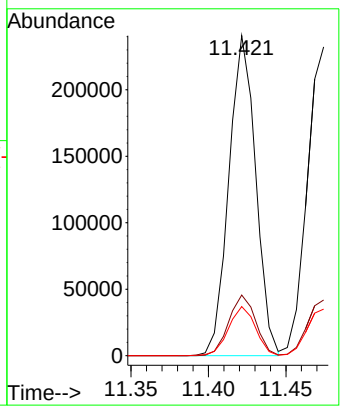


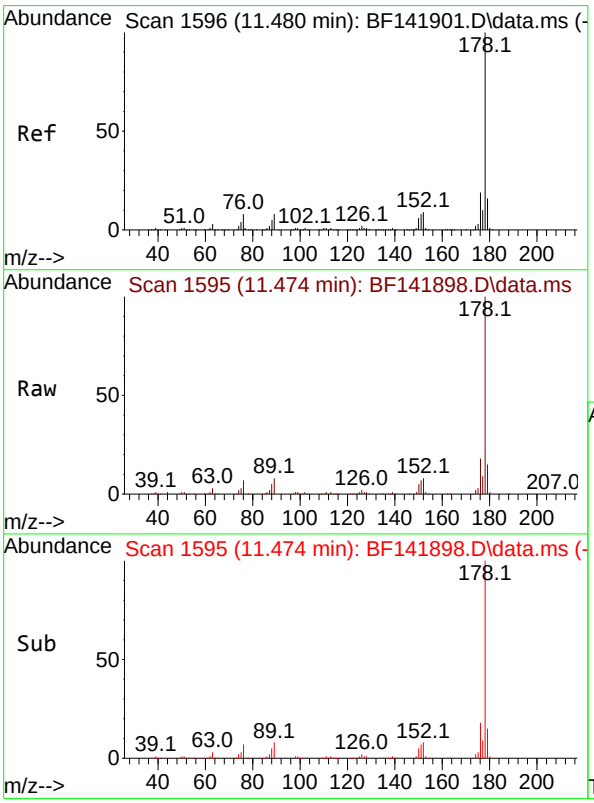
#71
Phenanthrene
Concen: 5.340 ng
RT: 11.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 289580

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.8
179	15.3	12.6	19.0

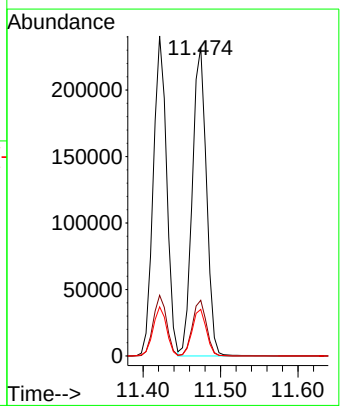


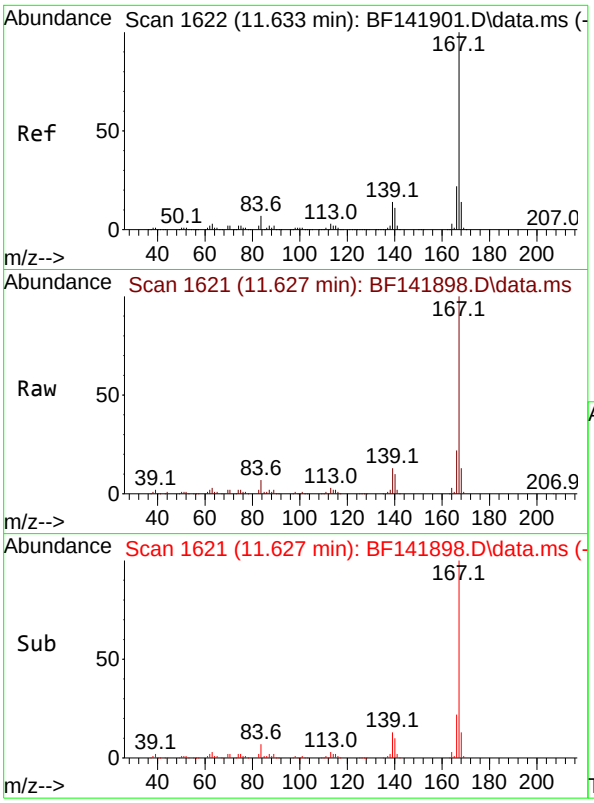


#72
Anthracene
Concen: 5.407 ng
RT: 11.474 min Scan# 1595
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:178 Resp: 294198

Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.1	22.7
179	15.1	12.6	19.0



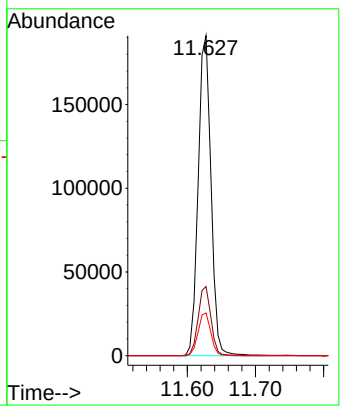


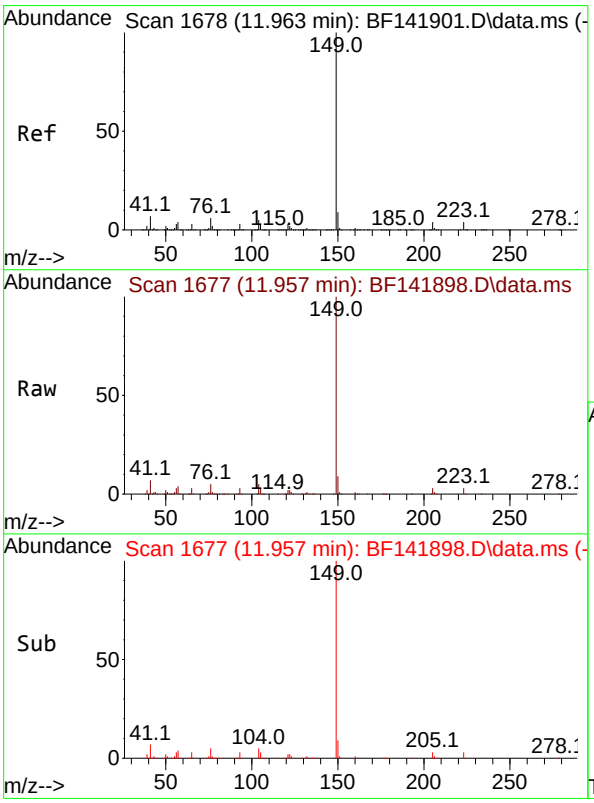
#73
Carbazole
Concen: 5.329 ng
RT: 11.627 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:167 Resp: 249634

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.3	11.0	16.6

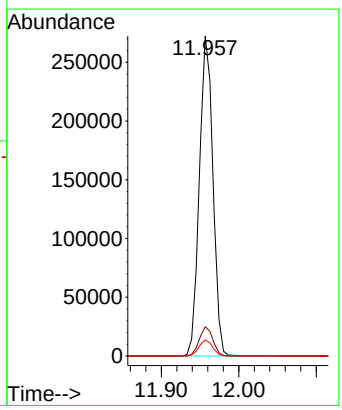


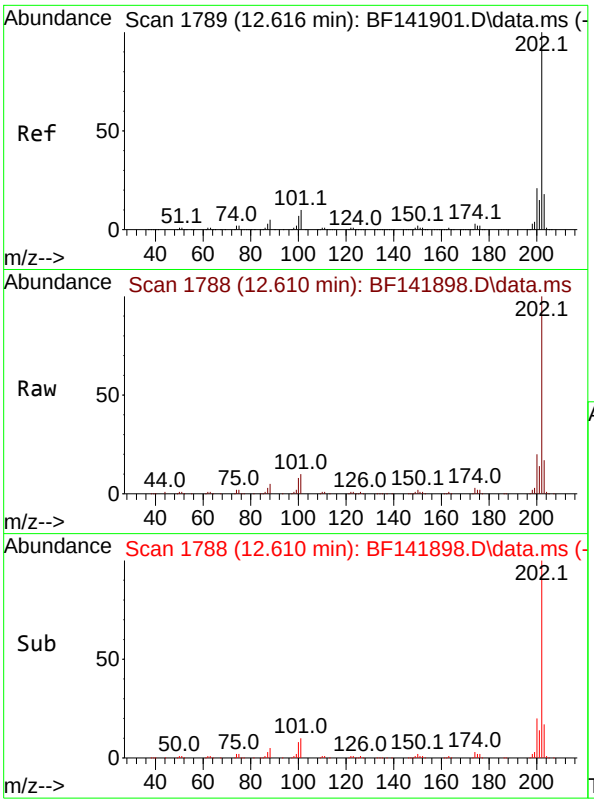


#74
Di-n-butylphthalate
Concen: 5.352 ng
RT: 11.957 min Scan# 1677
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:149 Resp: 330999

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.6	11.4
104	5.0	4.4	6.6



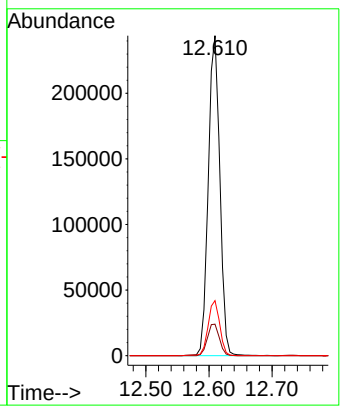


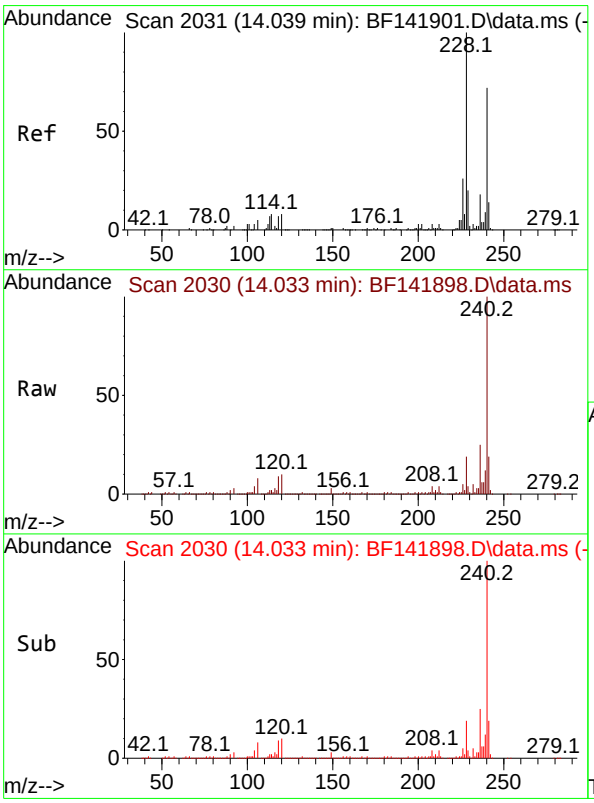
#75
Fluoranthene
Concen: 5.432 ng
RT: 12.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 309273

Ion	Ratio	Lower	Upper
202	100		
101	9.8	0.0	29.7
203	17.2	0.0	37.8

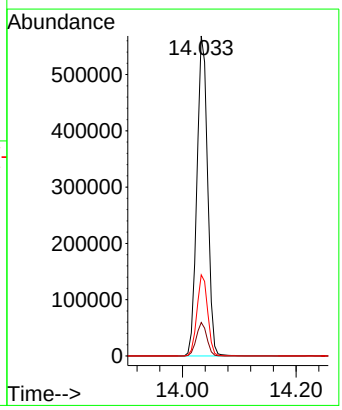


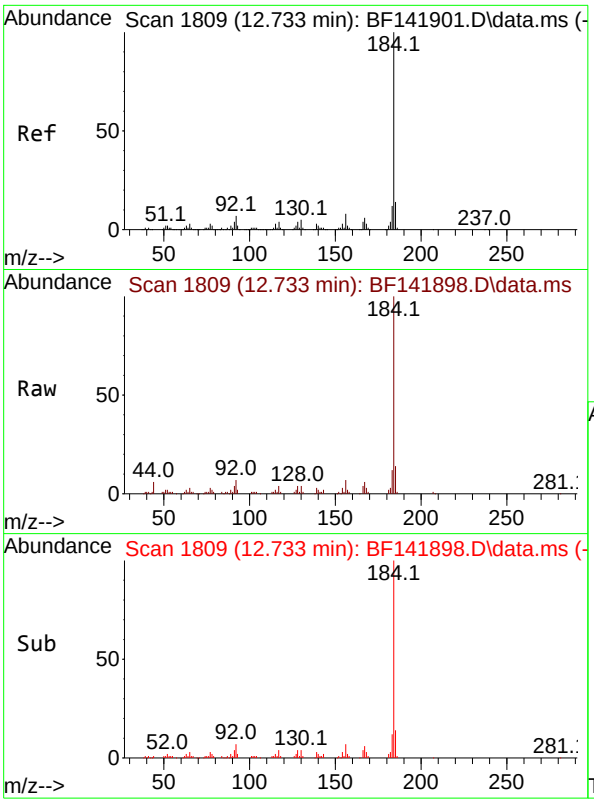


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:240 Resp: 745624

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.4	12.6
236	25.3	20.5	30.7



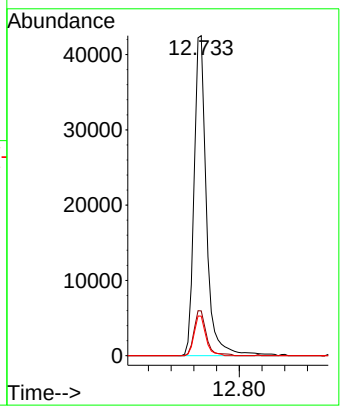


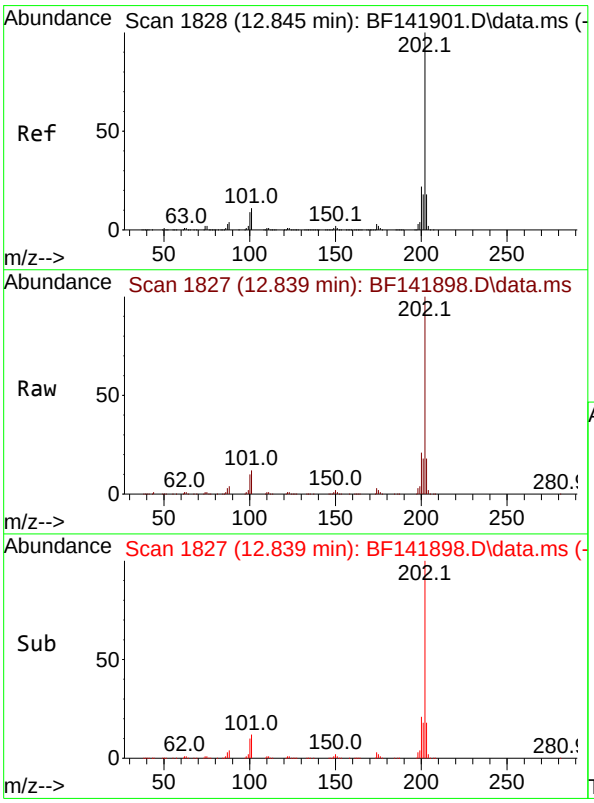
#77
Benzidine
Concen: 6.138 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:184 Resp: 64673

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.5	17.3
183	12.3	9.7	14.5

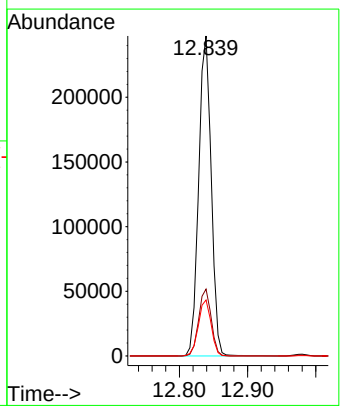


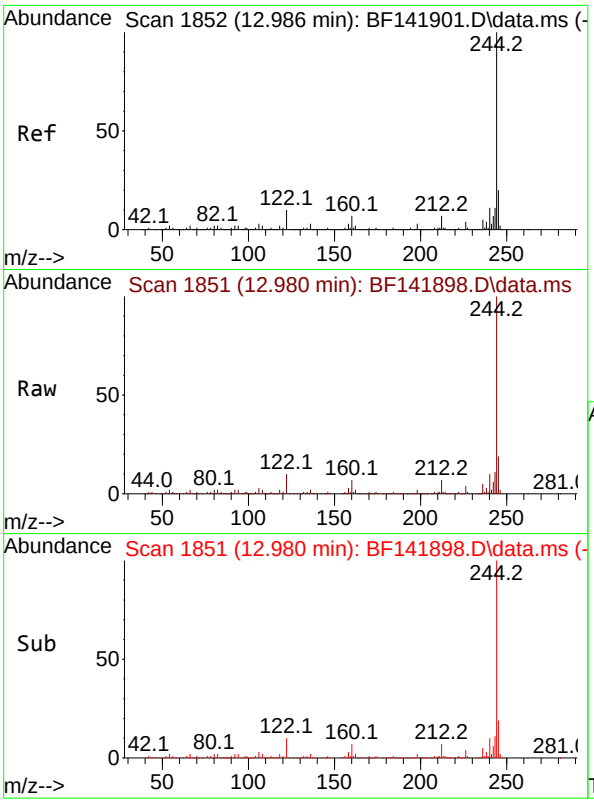


#78
Pyrene
Concen: 4.941 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:202 Resp: 315969

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.3	25.9
203	17.5	14.4	21.6



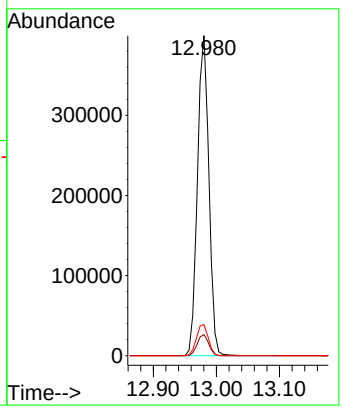


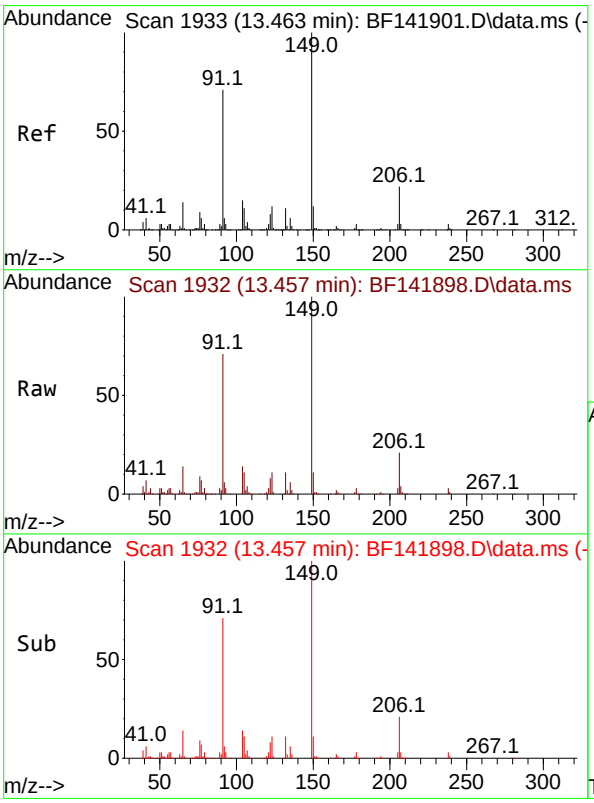
#79
Terphenyl-d14
Concen: 9.924 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:244 Resp: 500607

Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.0	9.0
122	9.7	7.7	11.5

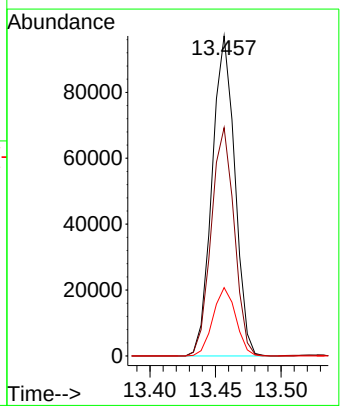


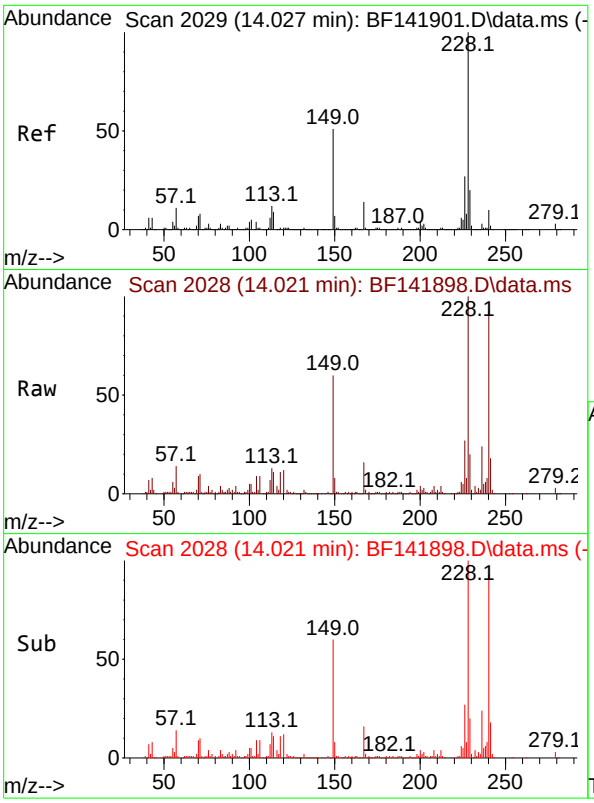


#80
Butylbenzylphthalate
Concen: 4.653 ng
RT: 13.457 min Scan# 1932
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:149 Resp: 117256

Ion	Ratio	Lower	Upper
149	100		
91	71.4	56.5	84.7
206	21.4	17.3	25.9



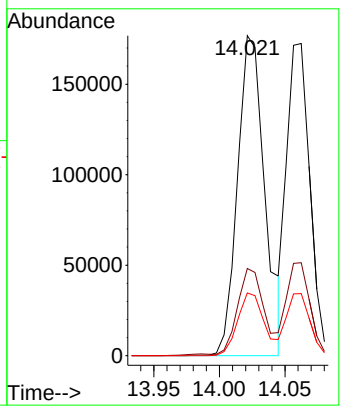


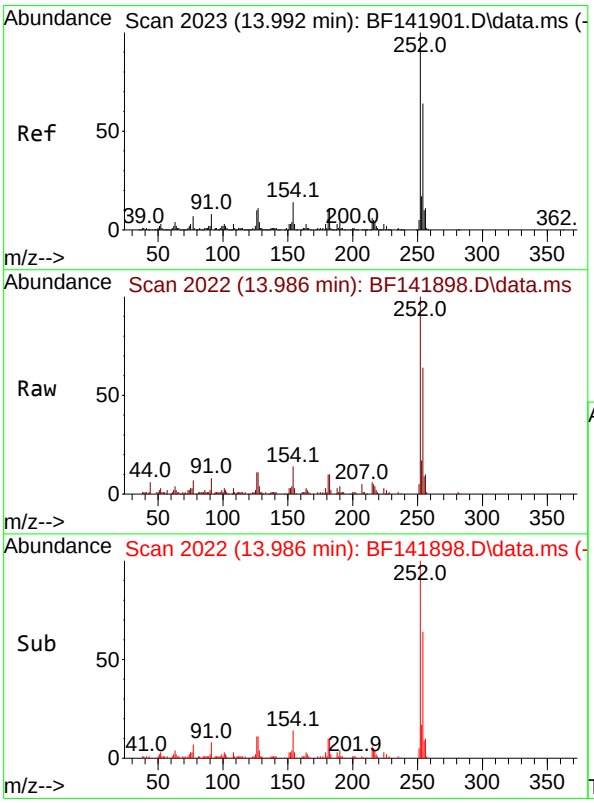
#81
Benzo(a)anthracene
Concen: 5.205 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 255308

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	19.6	16.0	24.0

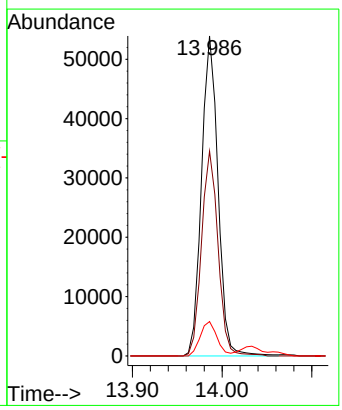


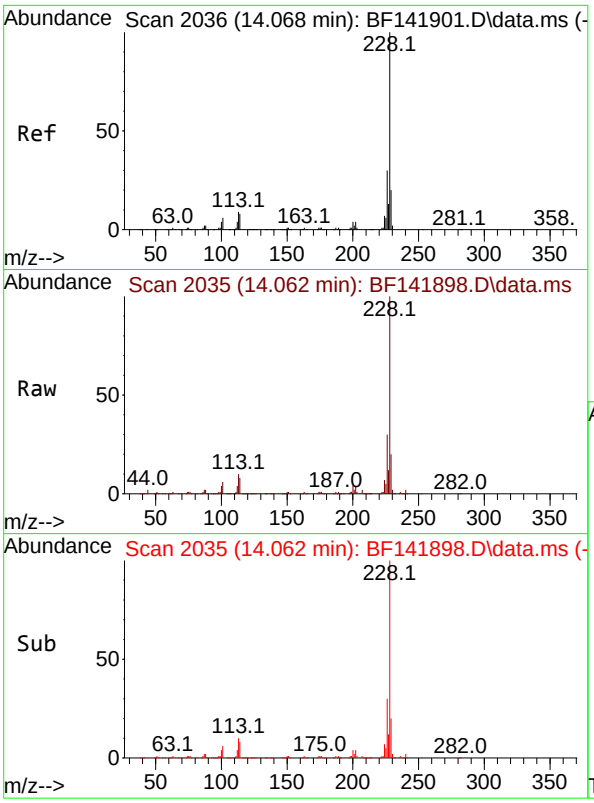


#82
3,3'-Dichlorobenzidine
Concen: 4.865 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:252 Resp: 68969

Ion	Ratio	Lower	Upper
252	100		
254	64.0	51.0	76.6
126	10.7	8.4	12.6



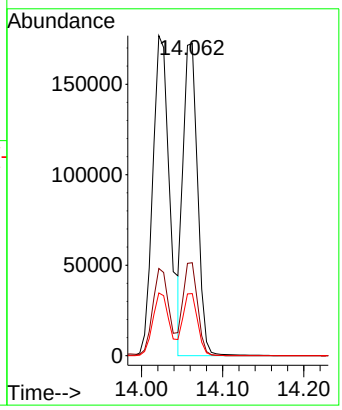


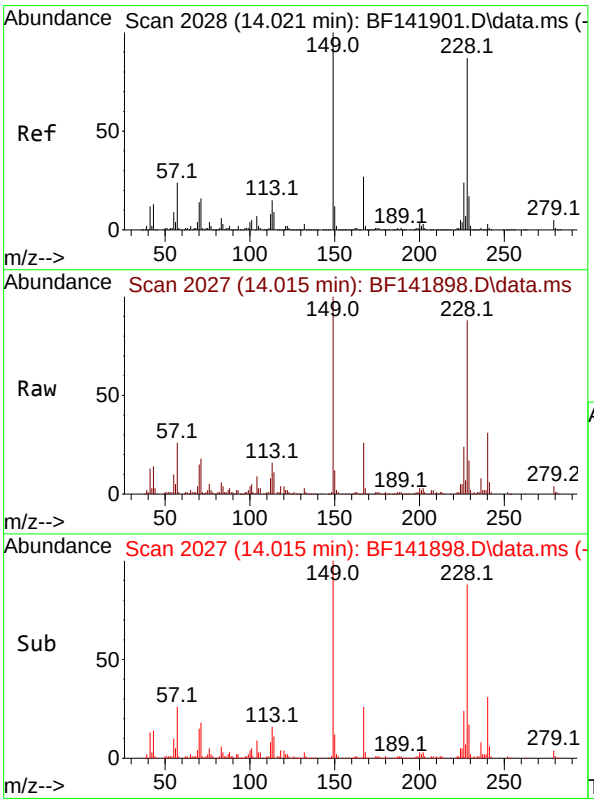
#83
Chrysene
Concen: 4.837 ng
RT: 14.062 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 213144

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.1	36.1
229	19.9	15.7	23.5

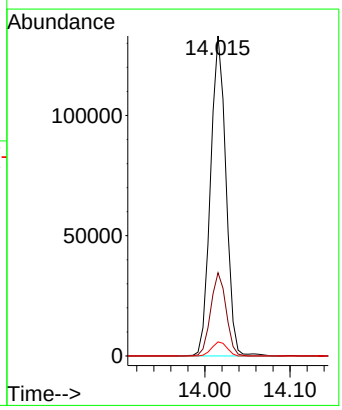


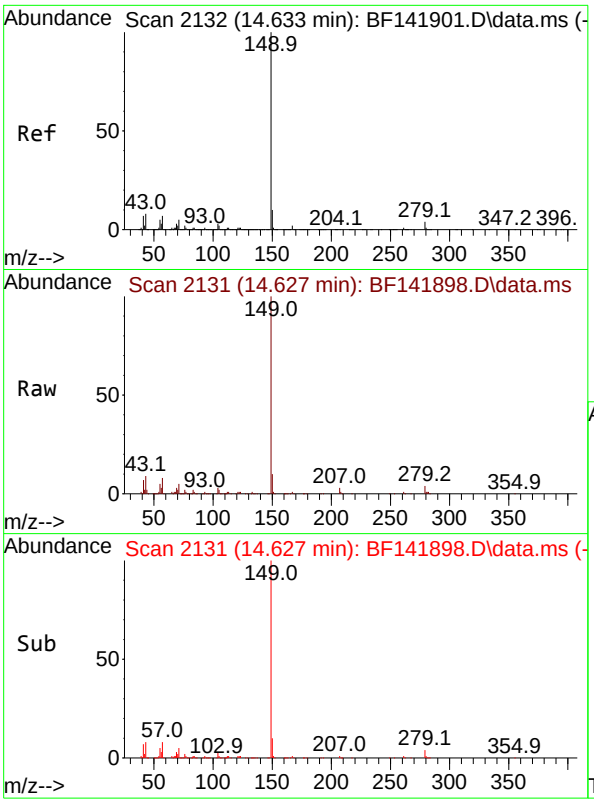


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.836 ng
RT: 14.015 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:149 Resp: 167165

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.4	32.0
279	4.4	3.8	5.6



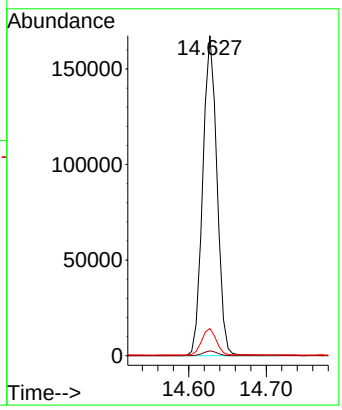


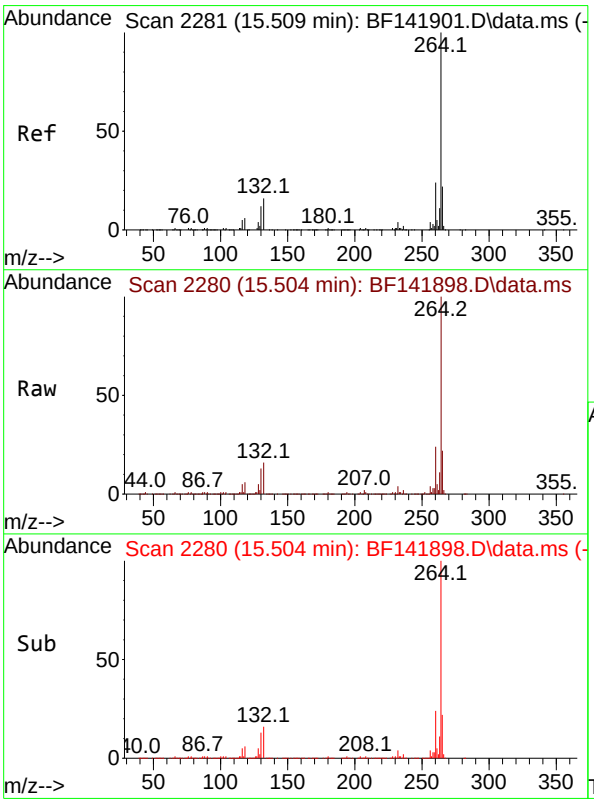
#85
Di-n-octyl phthalate
Concen: 4.435 ng
RT: 14.627 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 213395

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	8.4	6.9	10.3

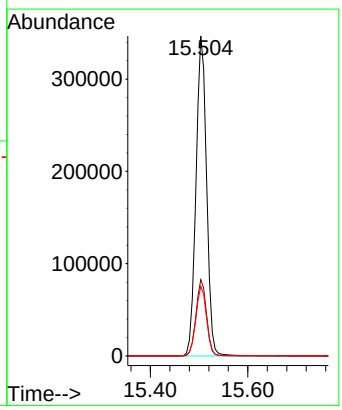


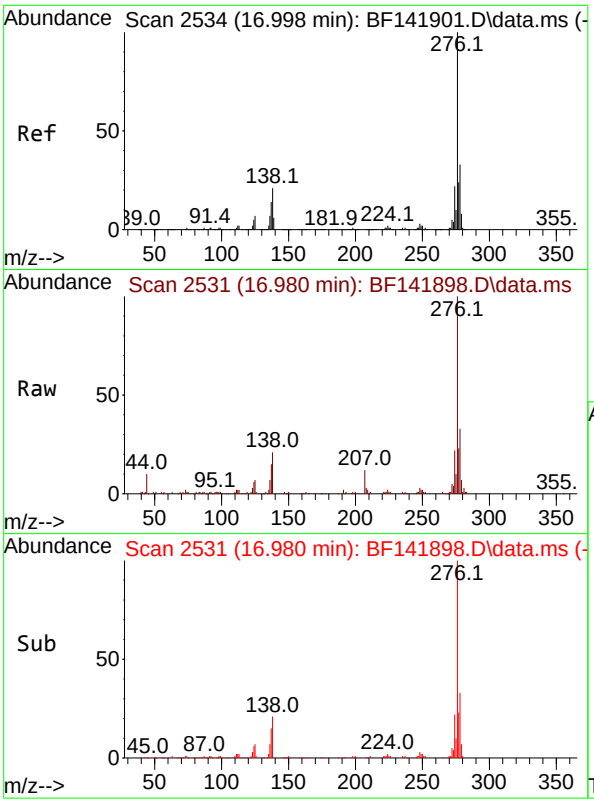


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.504 min Scan# 2280
Delta R.T. -0.006 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:264 Resp: 527129

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	21.7	17.5	26.3



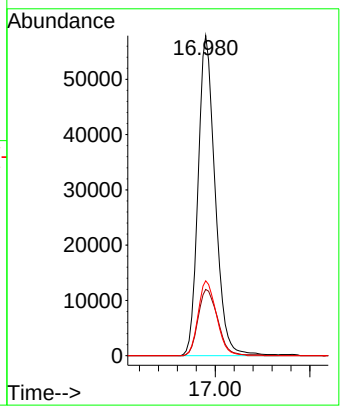


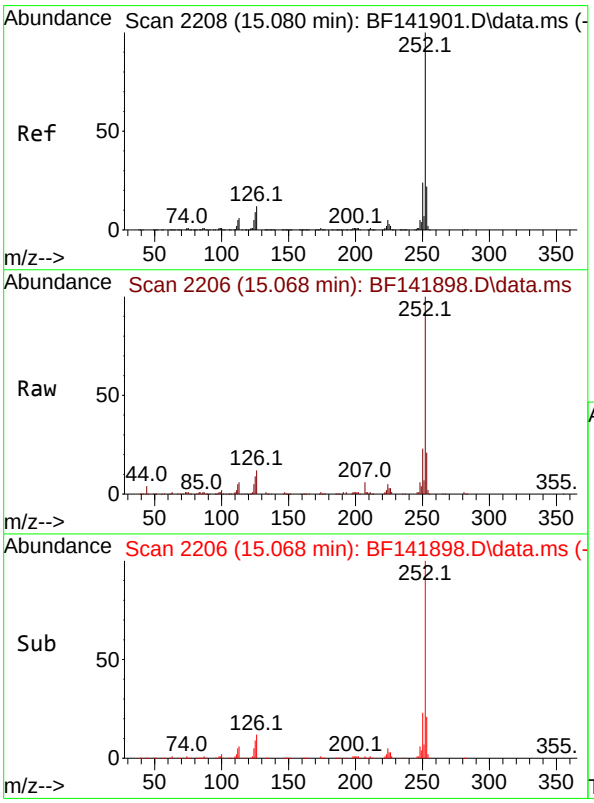
#87
Indeno(1,2,3-cd)pyrene
Concen: 4.228 ng
RT: 16.980 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 144536

Ion	Ratio	Lower	Upper
276	100		
138	23.7	18.4	27.6
277	25.1	20.3	30.5

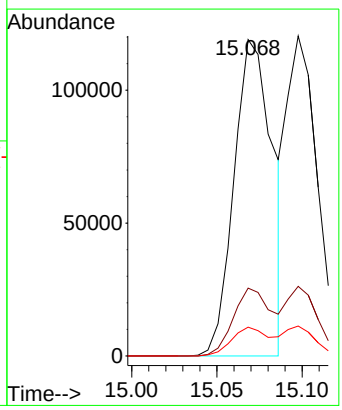


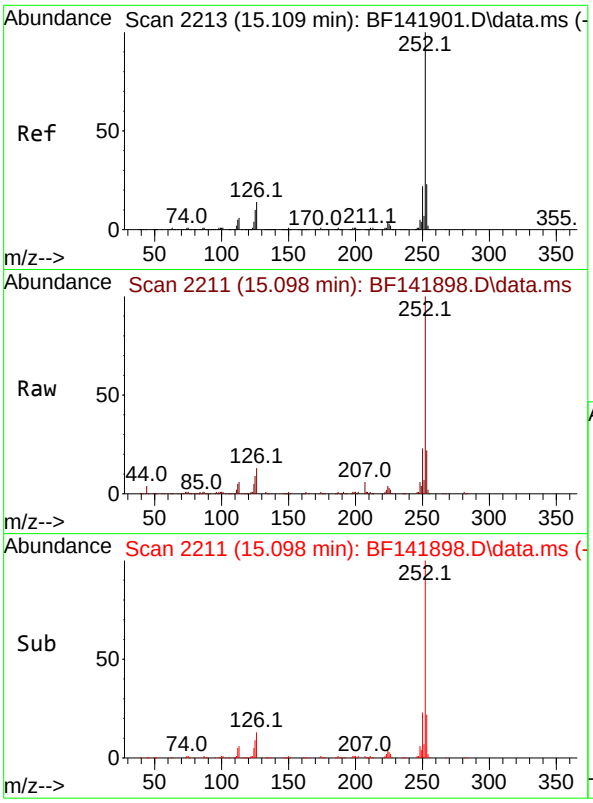


#88
Benzo(b)fluoranthene
Concen: 5.234 ng
RT: 15.068 min Scan# 2206
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:252 Resp: 187154

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	9.1	7.0	10.4



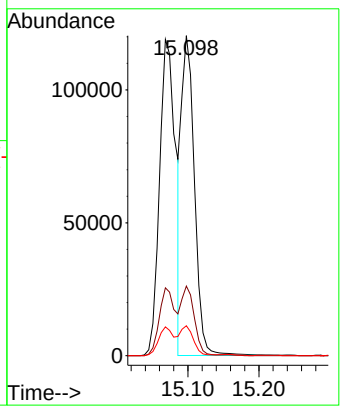


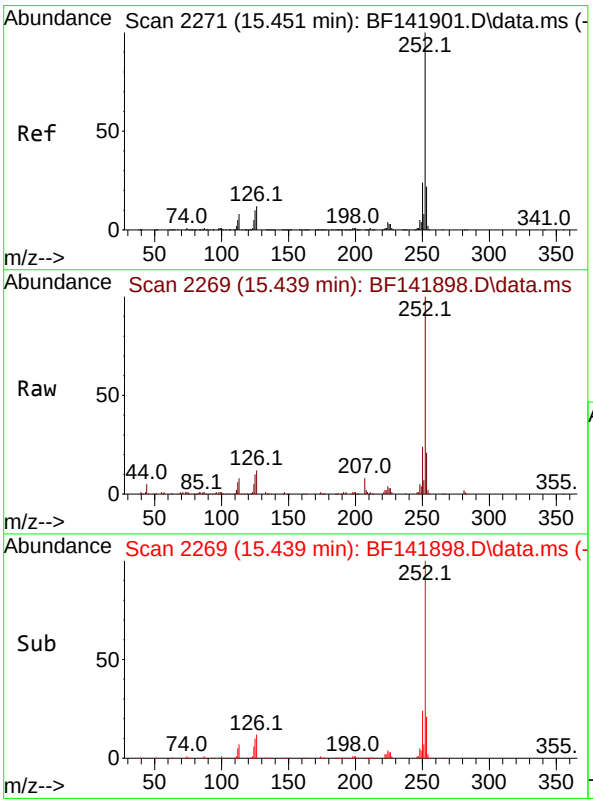
#89
Benzo(k)fluoranthene
Concen: 4.903 ng
RT: 15.098 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 153142

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	9.4	7.2	10.8

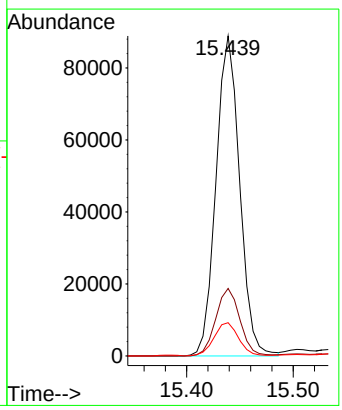


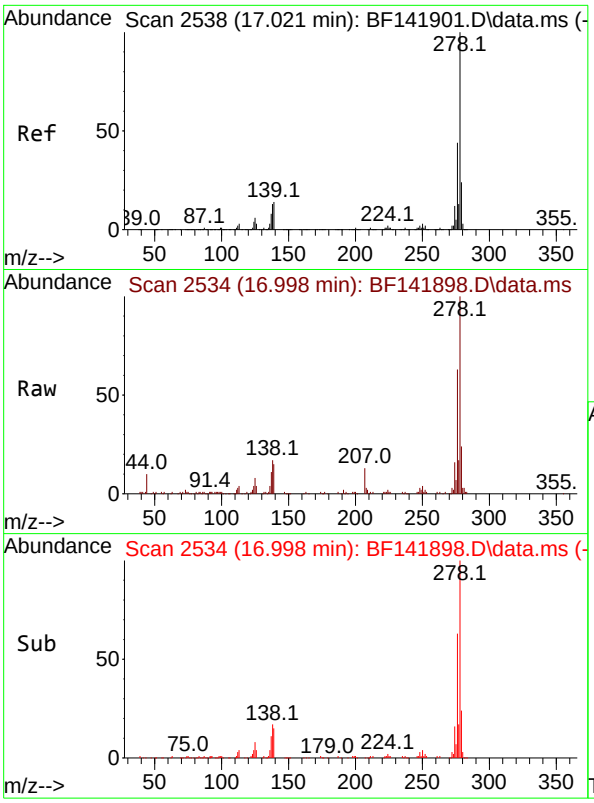


#90
Benzo(a)pyrene
Concen: 4.860 ng
RT: 15.439 min Scan# 2269
Delta R.T. -0.012 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:252 Resp: 137043

Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.4	26.0
125	10.4	7.8	11.8



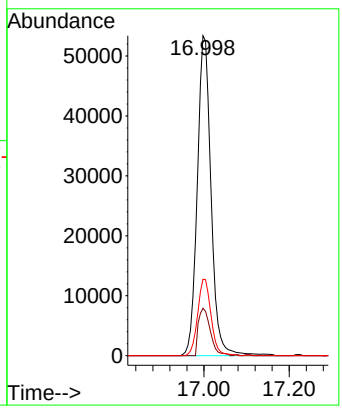


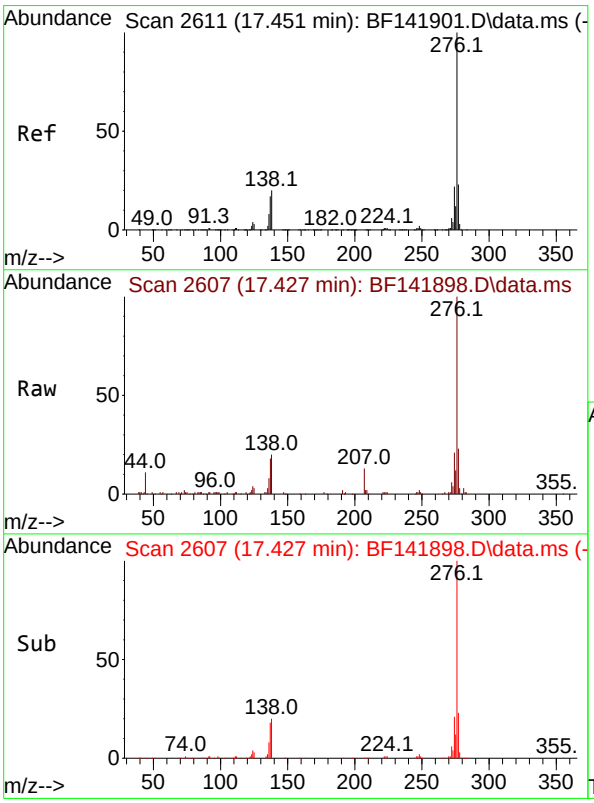
#91
Dibenzo(a,h)anthracene
Concen: 4.252 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:278 Resp: 119937

Ion	Ratio	Lower	Upper
278	100		
139	14.8	11.4	17.2
279	23.9	18.8	28.2

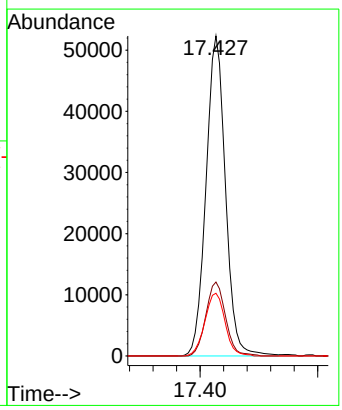




#92
Benzo(g,h,i)perylene
Concen: 4.294 ng
RT: 17.427 min Scan# 2607
Delta R.T. -0.024 min
Lab File: BF141898.D
Acq: 10 Mar 2025 11:30

Tgt Ion:276 Resp: 120142

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.7	28.1
138	19.6	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141899.D
Acq On : 10 Mar 2025 12:00
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Mar 10 15:33:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	224499	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	921725	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	541295	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	966771	20.000	ng		0.00
76) Chrysene-d12	14.039	240	703100	20.000	ng		0.00
86) Perylene-d12	15.510	264	510790	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	279139	20.746	ng		0.00
7) Phenol-d6	6.493	99	357672	20.872	ng		-0.01
23) Nitrobenzene-d5	7.434	82	328098	19.951	ng		-0.01
42) 2,4,6-Tribromophenol	10.698	330	127785	18.630	ng		0.00
45) 2-Fluorobiphenyl	9.234	172	746589	21.003	ng		0.00
79) Terphenyl-d14	12.980	244	920159	19.345	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.675	88	54068	9.588	ng		98
3) Pyridine	3.440	79	135148	9.752	ng		99
4) n-Nitrosodimethylamine	3.369	42	62411	9.474	ng	#	98
6) Aniline	6.540	93	179854	10.631	ng		99
8) 2-Chlorophenol	6.657	128	151998	10.192	ng		97
9) Benzaldehyde	6.428	77	114586	11.963	ng		99
10) Phenol	6.504	94	187967	10.396	ng		98
11) bis(2-Chloroethyl)ether	6.610	93	139813	10.321	ng		99
12) 1,3-Dichlorobenzene	6.822	146	167192	10.374	ng		98
13) 1,4-Dichlorobenzene	6.898	146	168717	10.347	ng		98
14) 1,2-Dichlorobenzene	7.051	146	159032	10.357	ng		98
15) Benzyl Alcohol	7.010	79	140530	10.132	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	171225	10.487	ng		98
17) 2-Methylphenol	7.116	107	117869	9.945	ng		99
18) Hexachloroethane	7.392	117	61809	10.111	ng		100
19) n-Nitroso-di-n-propyla...	7.281	70	112281	10.194	ng		97
20) 3+4-Methylphenols	7.269	107	156526	10.296	ng		92
22) Acetophenone	7.281	105	227350	10.282	ng		99
24) Nitrobenzene	7.457	77	161777	9.922	ng		99
25) Isophorone	7.692	82	285760	9.842	ng		99
26) 2-Nitrophenol	7.775	139	73301	9.174	ng		98
27) 2,4-Dimethylphenol	7.804	122	107669	9.784	ng		99
28) bis(2-Chloroethoxy)met...	7.904	93	187307	10.298	ng		98
29) 2,4-Dichlorophenol	8.010	162	135772	9.941	ng		98
30) 1,2,4-Trichlorobenzene	8.098	180	149790	9.941	ng		99
31) Naphthalene	8.181	128	495470	10.493	ng		99
32) Benzoic acid	7.869	122	68640	7.136	ng		98
33) 4-Chloroaniline	8.228	127	173977	10.441	ng		98
34) Hexachlorobutadiene	8.298	225	97298	9.931	ng		98
35) Caprolactam	8.563	113	41208	9.922	ng		97
36) 4-Chloro-3-methylphenol	8.698	107	152340	10.029	ng		96
37) 2-Methylnaphthalene	8.869	142	326733	10.313	ng		99
38) 1-Methylnaphthalene	8.969	142	318324	10.376	ng		98
40) 1,2,4,5-Tetrachloroben...	9.034	216	163481	9.905	ng		99
41) Hexachlorocyclopentadiene	9.022	237	59769	9.177	ng		99
43) 2,4,6-Trichlorophenol	9.145	196	105191	9.777	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141899.D
Acq On : 10 Mar 2025 12:00
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Mar 10 15:33:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

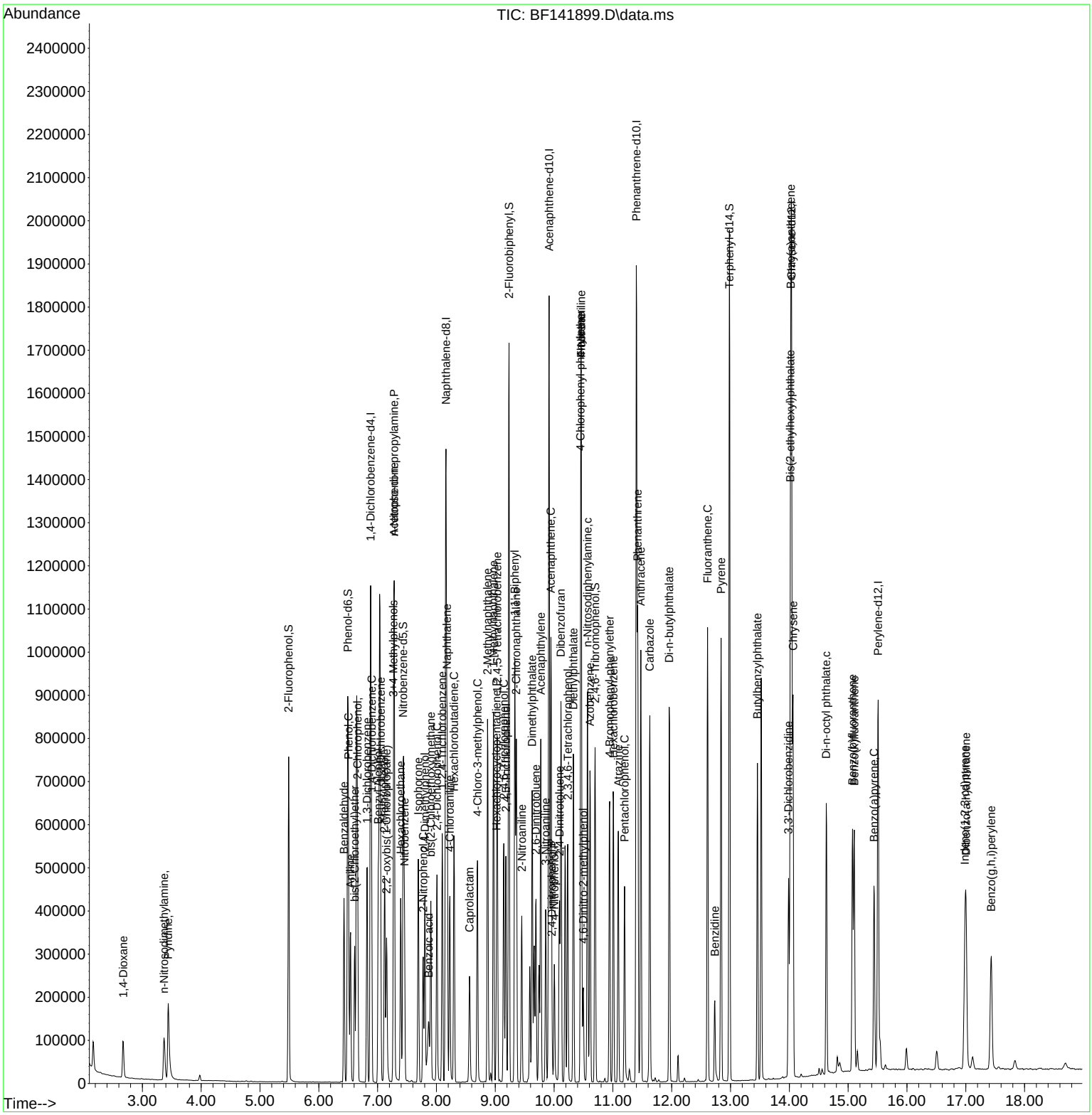
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	105943	9.692	ng		99
46) 1,1'-Biphenyl	9.334	154	425640	10.372	ng		98
47) 2-Chloronaphthalene	9.357	162	308729	10.094	ng		98
48) 2-Nitroaniline	9.451	65	84854	9.658	ng		98
49) Acenaphthylene	9.775	152	470801	10.383	ng		99
50) Dimethylphthalate	9.628	163	382722	10.176	ng		100
51) 2,6-Dinitrotoluene	9.692	165	75577	9.663	ng		97
52) Acenaphthene	9.945	154	323406	10.101	ng		100
53) 3-Nitroaniline	9.857	138	79944	9.955	ng		96
54) 2,4-Dinitrophenol	9.963	184	23121	11.386	ng	#	71
55) Dibenzofuran	10.116	168	483596	10.593	ng		98
56) 4-Nitrophenol	10.004	139	58549	9.706	ng		98
57) 2,4-Dinitrotoluene	10.092	165	103313	10.035	ng		98
58) Fluorene	10.463	166	368370	10.452	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	98725	9.954	ng		99
60) Diethylphthalate	10.328	149	398003	10.542	ng		100
61) 4-Chlorophenyl-phenyle...	10.451	204	186237	10.145	ng		99
62) 4-Nitroaniline	10.463	138	78048	10.030	ng		97
63) Azobenzene	10.610	77	368982	10.521	ng		99
65) 4,6-Dinitro-2-methylph...	10.498	198	40348	7.040	ng		99
66) n-Nitrosodiphenylamine	10.569	169	314758	10.078	ng		99
67) 4-Bromophenyl-phenylether	10.945	248	120534	10.011	ng		97
68) Hexachlorobenzene	11.010	284	129242	9.712	ng		98
69) Atrazine	11.092	200	102822	13.502	ng		99
70) Pentachlorophenol	11.198	266	73112	8.909	ng		99
71) Phenanthrene	11.422	178	556546	10.646	ng		98
72) Anthracene	11.475	178	550767	10.501	ng		100
73) Carbazole	11.628	167	480520	10.641	ng		99
74) Di-n-butylphthalate	11.957	149	638429	10.708	ng		99
75) Fluoranthene	12.610	202	592806	10.801	ng		99
77) Benzidine	12.733	184	108761	10.946	ng		99
78) Pyrene	12.839	202	580442	9.626	ng		99
80) Butylbenzylphthalate	13.457	149	230714	9.710	ng		98
81) Benzo(a)anthracene	14.027	228	458422	9.911	ng		99
82) 3,3'-Dichlorobenzidine	13.986	252	136843	10.236	ng		99
83) Chrysene	14.063	228	419687	10.100	ng		99
84) Bis(2-ethylhexyl)phtha...	14.016	149	320536	9.833	ng		99
85) Di-n-octyl phthalate	14.627	149	428377	9.442	ng		100
87) Indeno(1,2,3-cd)pyrene	16.986	276	291723	8.807	ng		99
88) Benzo(b)fluoranthene	15.074	252	334664	9.659	ng		99
89) Benzo(k)fluoranthene	15.104	252	323772	10.698	ng		99
90) Benzo(a)pyrene	15.439	252	266149	9.740	ng		99
91) Dibenzo(a,h)anthracene	17.004	278	243443	8.907	ng		98
92) Benzo(g,h,i)perylene	17.433	276	242380	8.941	ng		99

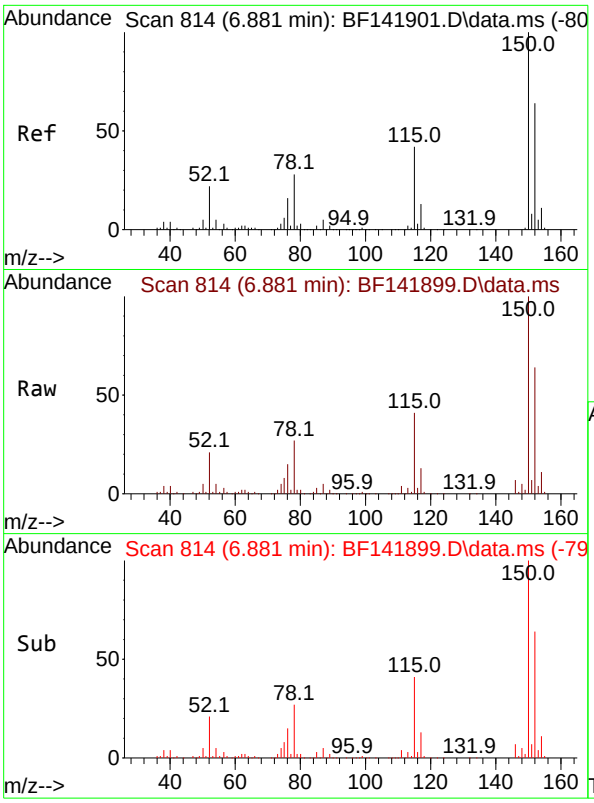
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141899.D
Acq On : 10 Mar 2025 12:00
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Mar 10 15:33:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration



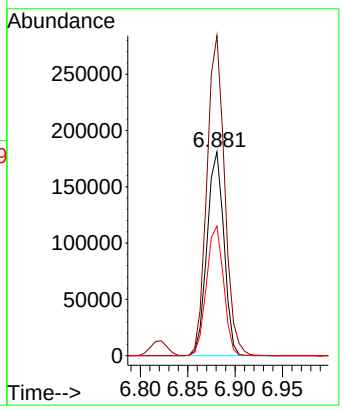


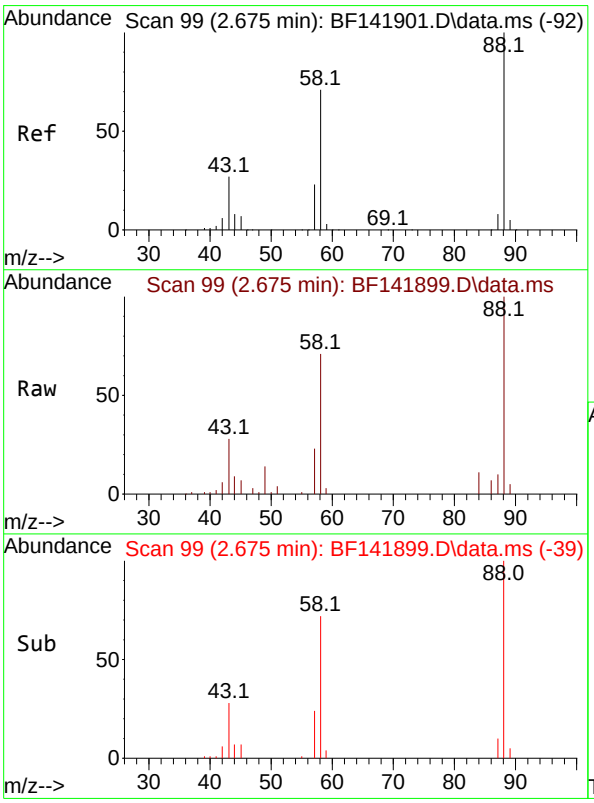
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 224499

Ion	Ratio	Lower	Upper
152	100		
150	157.0	127.4	191.2
115	63.6	51.9	77.9

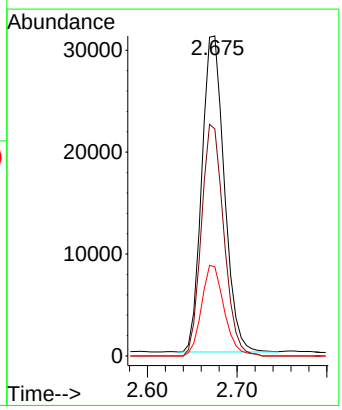


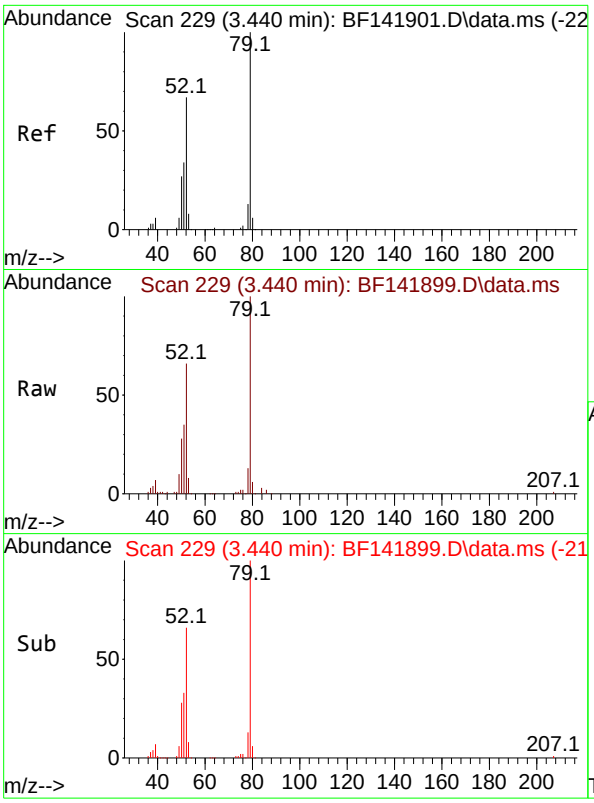


#2
1,4-Dioxane
Concen: 9.588 ng
RT: 2.675 min Scan# 99
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion: 88 Resp: 54068

Ion	Ratio	Lower	Upper
88	100		
58	72.9	57.4	86.2
43	28.8	21.5	32.3



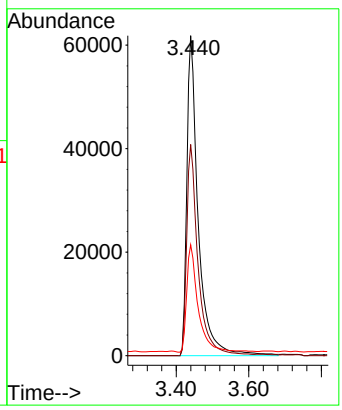


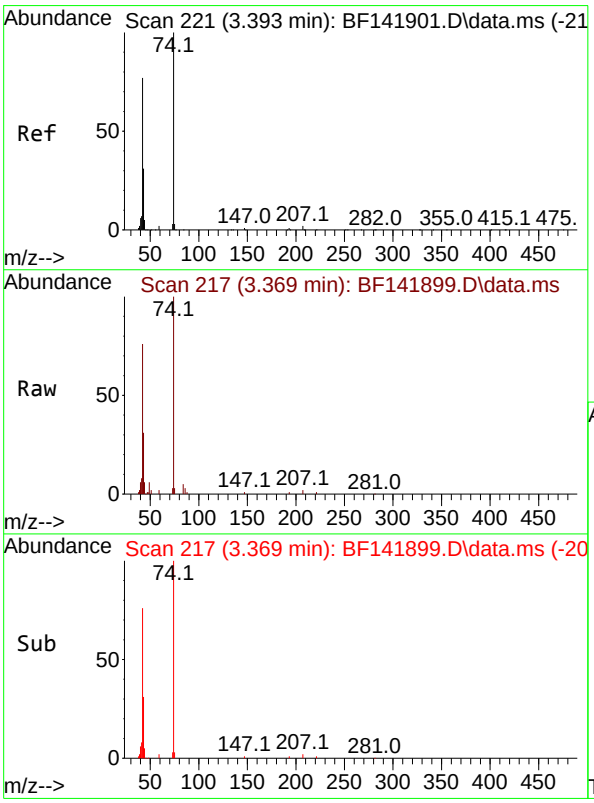
#3
Pyridine
Concen: 9.752 ng
RT: 3.440 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 135148

Ion	Ratio	Lower	Upper
79	100		
52	66.0	53.3	79.9
51	34.7	27.6	41.4

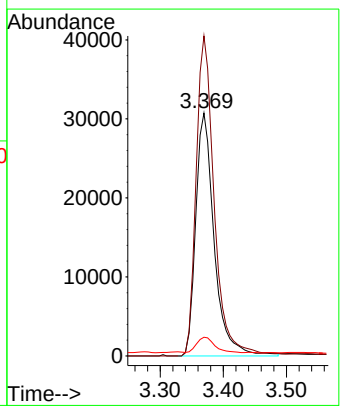


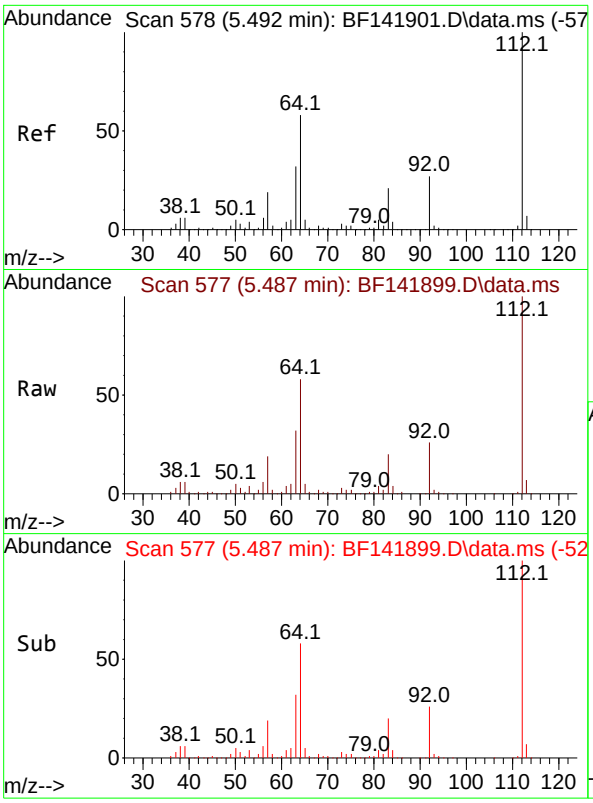


#4
n-Nitrosodimethylamine
Concen: 9.474 ng
RT: 3.369 min Scan# 217
Delta R.T. -0.023 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion: 42 Resp: 62411

Ion	Ratio	Lower	Upper
42	100		
74	131.7	103.4	155.0
44	7.7	5.0	7.4#



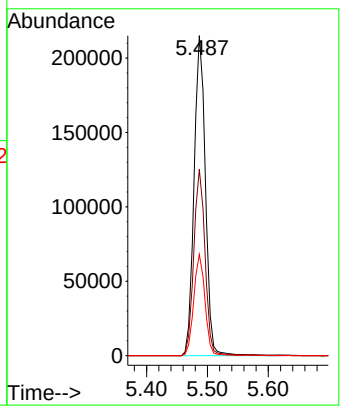


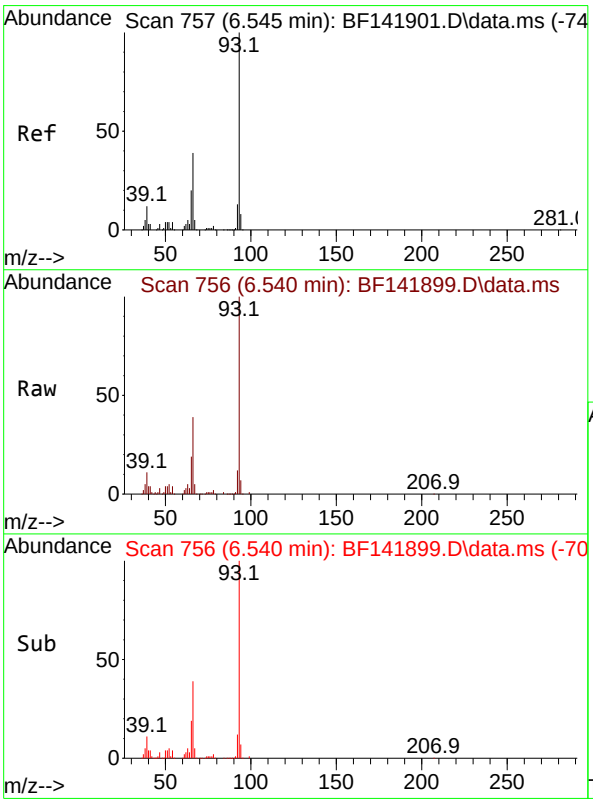
#5
2-Fluorophenol
Concen: 20.746 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 279139

Ion	Ratio	Lower	Upper
112	100		
64	58.3	46.5	69.7
63	31.6	25.4	38.2

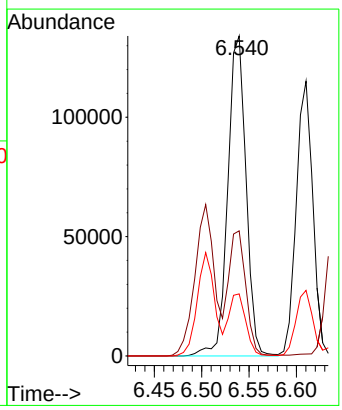


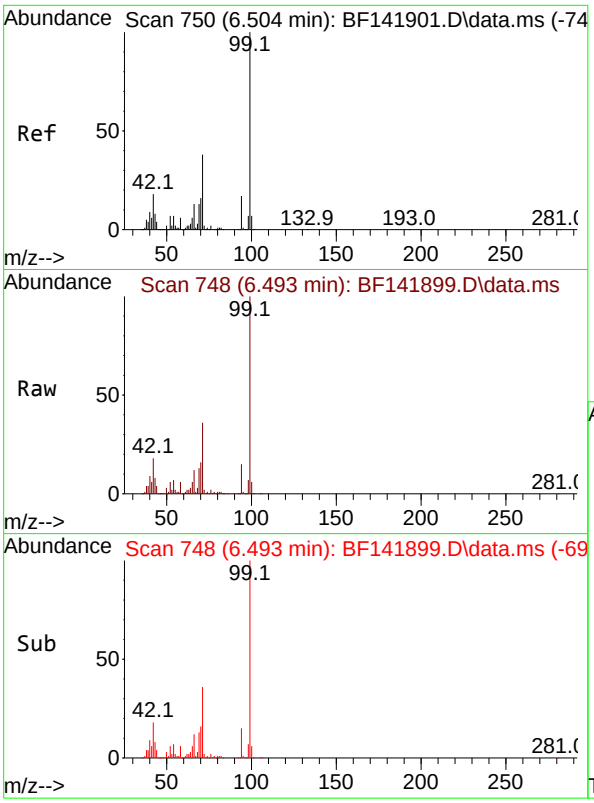


#6
Aniline
Concen: 10.631 ng
RT: 6.540 min Scan# 756
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion: 93 Resp: 179854

Ion	Ratio	Lower	Upper
93	100		
66	39.1	31.9	47.9
65	19.4	15.8	23.6



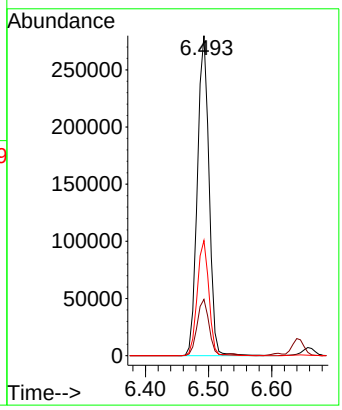


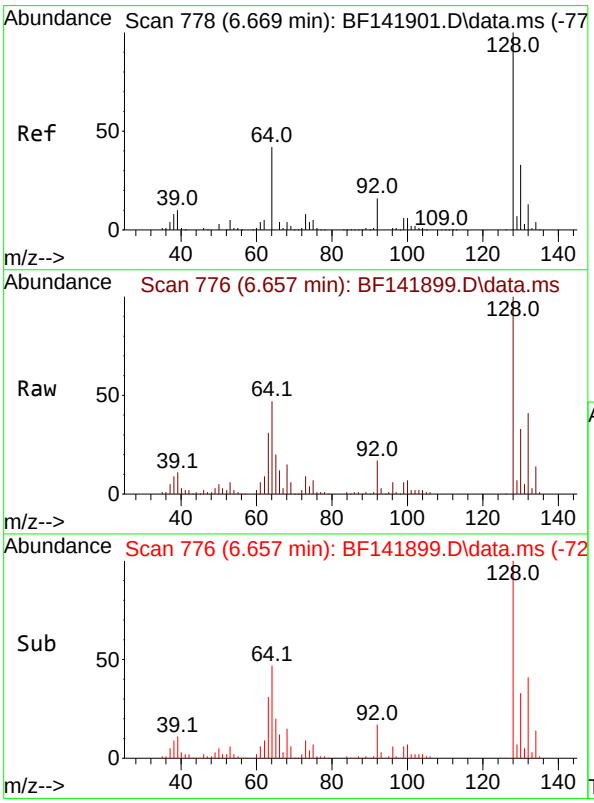
#7
Phenol-d6
Concen: 20.872 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 357672

Ion	Ratio	Lower	Upper
99	100		
42	17.6	14.6	21.8
71	36.0	30.8	46.2

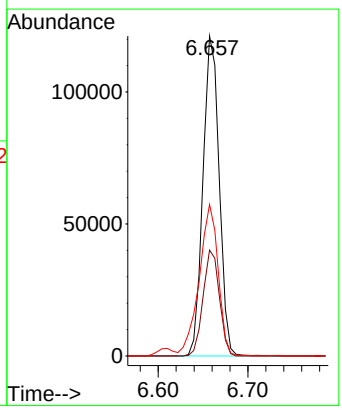


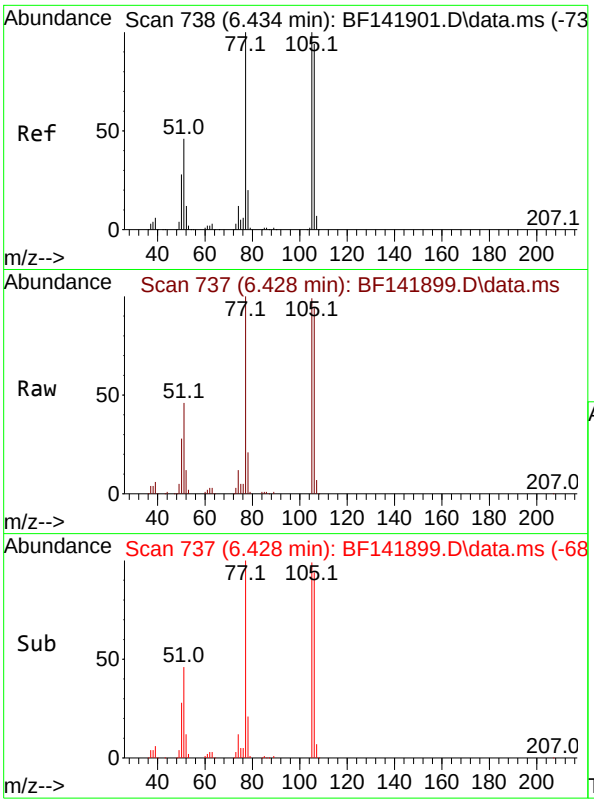


#8
2-Chlorophenol
Concen: 10.192 ng
RT: 6.657 min Scan# 776
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:128 Resp: 151998

Ion	Ratio	Lower	Upper
128	100		
130	33.1	12.8	52.8
64	47.3	24.4	64.4



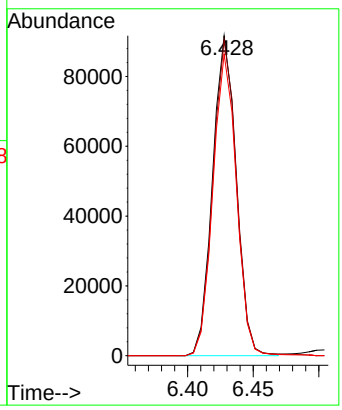


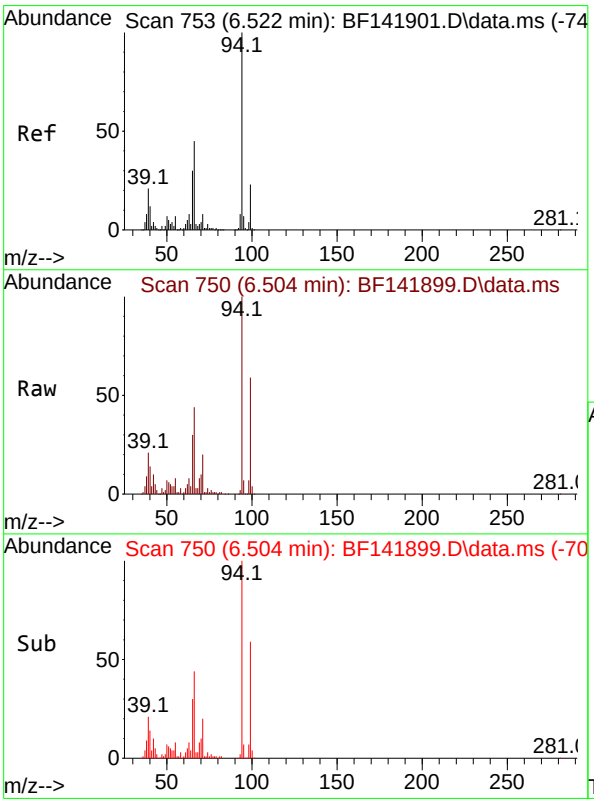
#9
Benzaldehyde
Concen: 11.963 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 114586

Ion	Ratio	Lower	Upper
77	100		
105	98.6	80.0	120.0
106	94.3	74.5	114.5

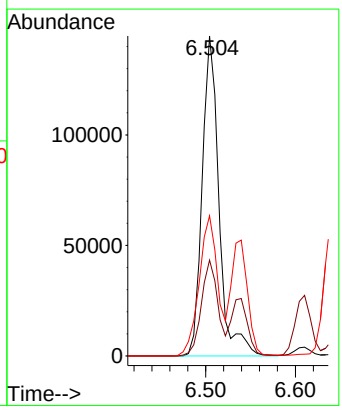


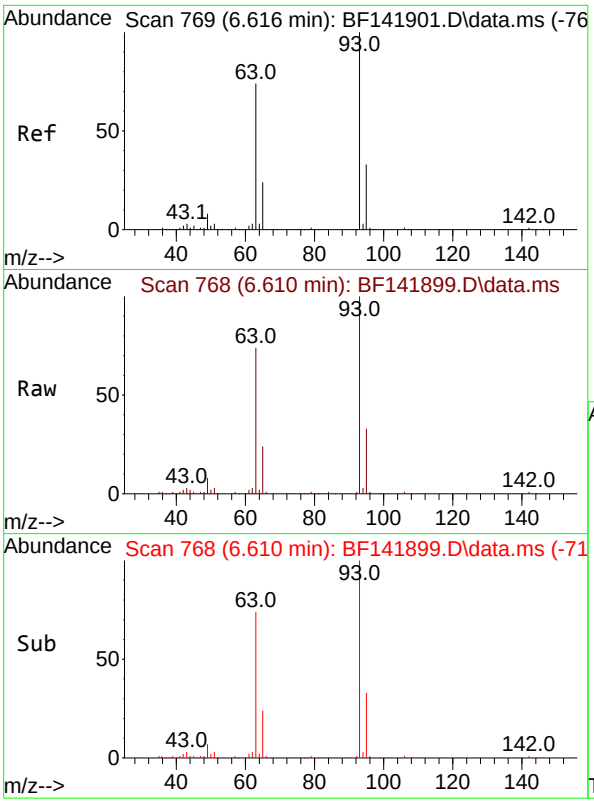


#10
Phenol
Concen: 10.396 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.017 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion: 94 Resp: 187967

Ion	Ratio	Lower	Upper
94	100		
65	29.9	10.5	50.5
66	43.8	25.8	65.8



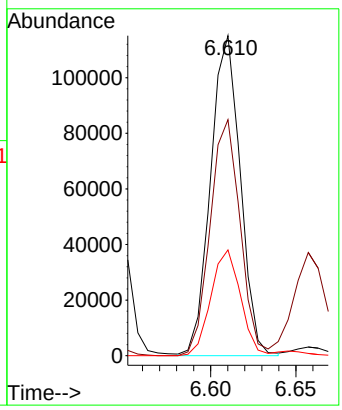


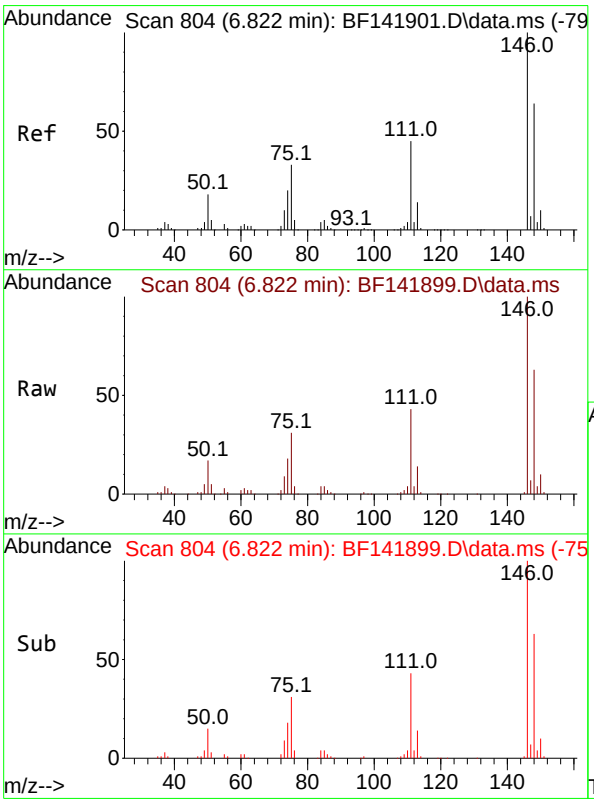
#11
bis(2-Chloroethyl)ether
Concen: 10.321 ng
RT: 6.610 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 139813

Ion	Ratio	Lower	Upper
93	100		
63	73.7	53.0	93.0
95	33.0	12.9	52.9

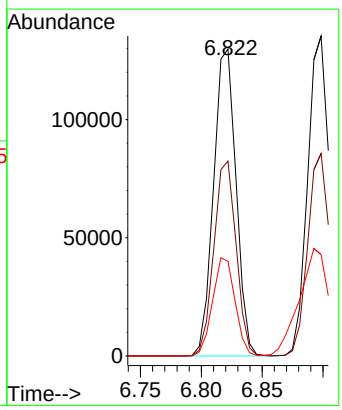


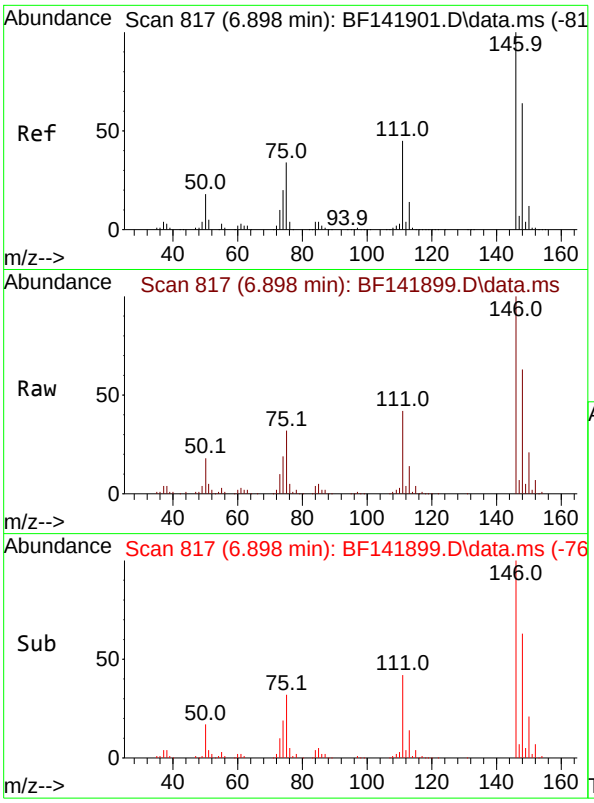


#12
1,3-Dichlorobenzene
Concen: 10.374 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:146 Resp: 167192

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.3	76.9
75	30.8	26.6	40.0



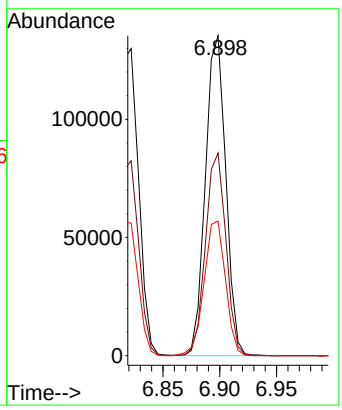


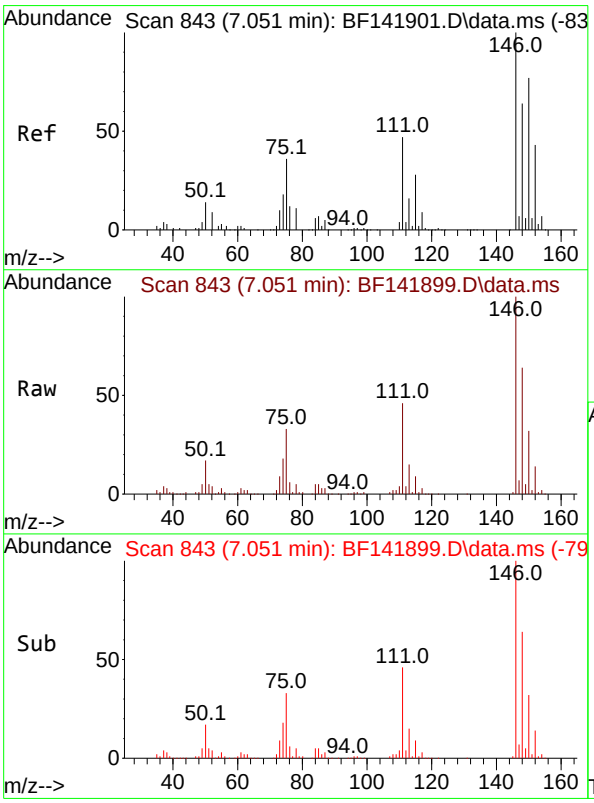
#13
1,4-Dichlorobenzene
Concen: 10.347 ng
RT: 6.898 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 168717

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.0	76.6
111	42.1	35.7	53.5

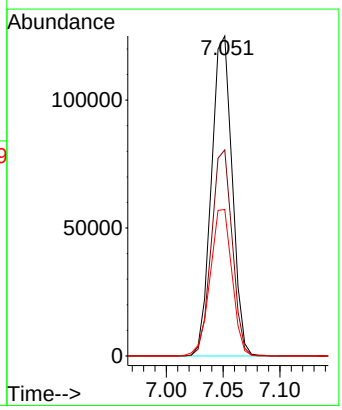


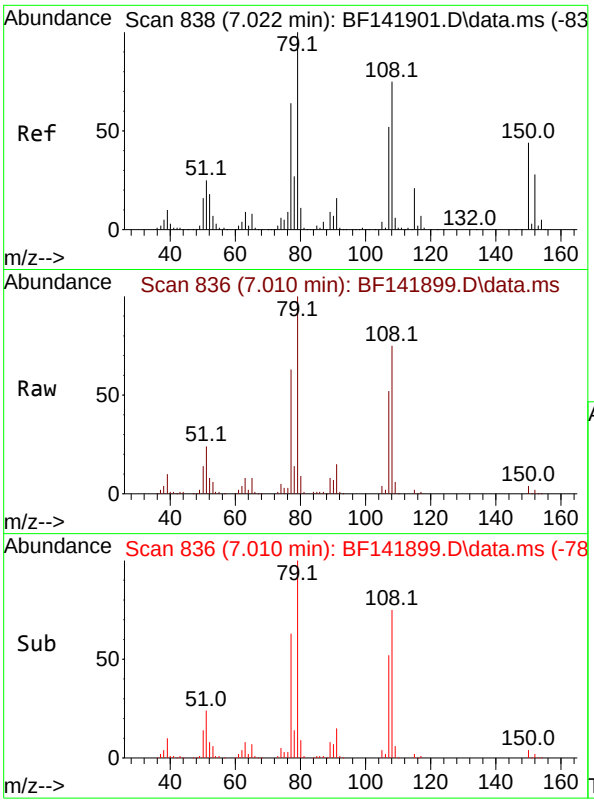


#14
1,2-Dichlorobenzene
Concen: 10.357 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:146 Resp: 159032

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.8	76.2
111	45.8	38.0	57.0



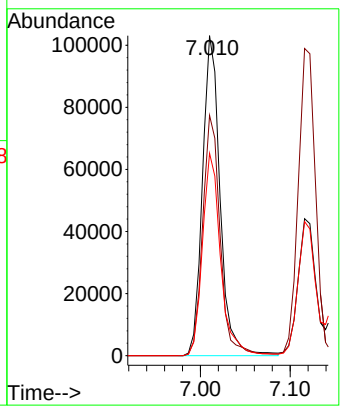


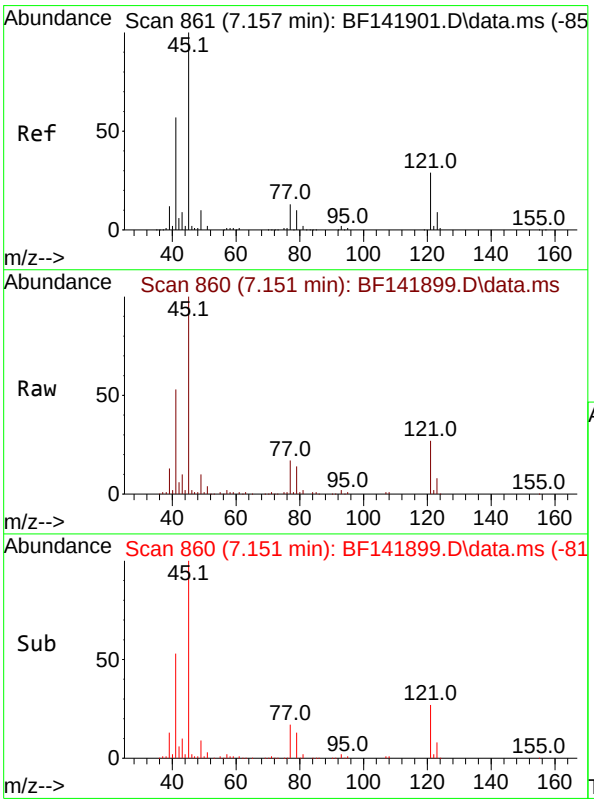
#15
Benzyl Alcohol
Concen: 10.132 ng
RT: 7.010 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 140530

Ion	Ratio	Lower	Upper
79	100		
108	75.1	59.7	89.5
77	63.3	51.0	76.6

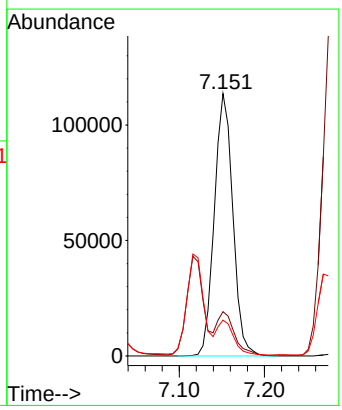


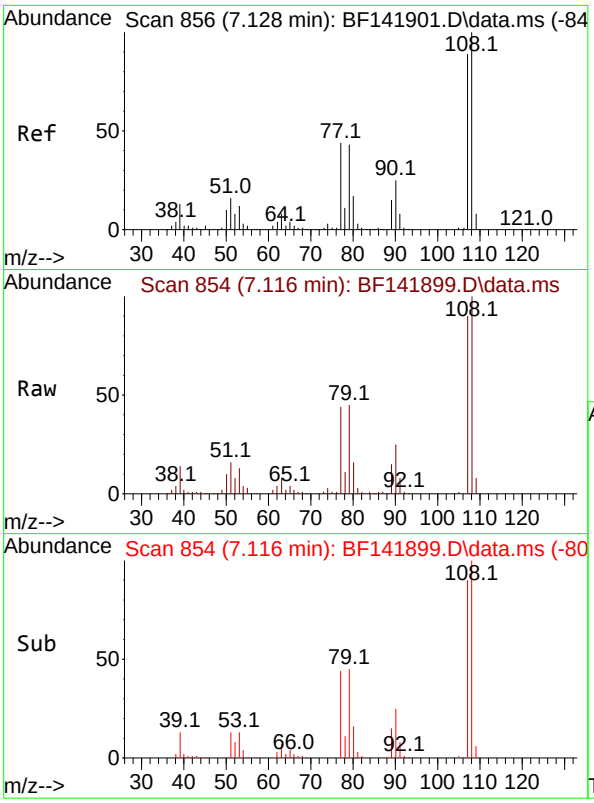


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.487 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion: 45 Resp: 171225

Ion	Ratio	Lower	Upper
45	100		
77	16.9	0.0	37.8
79	13.7	0.0	34.2



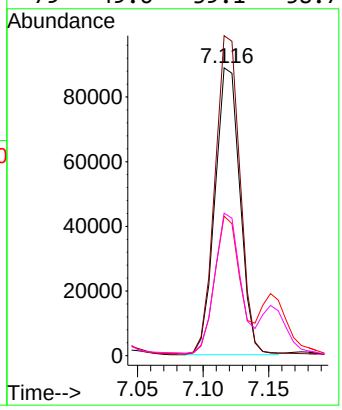


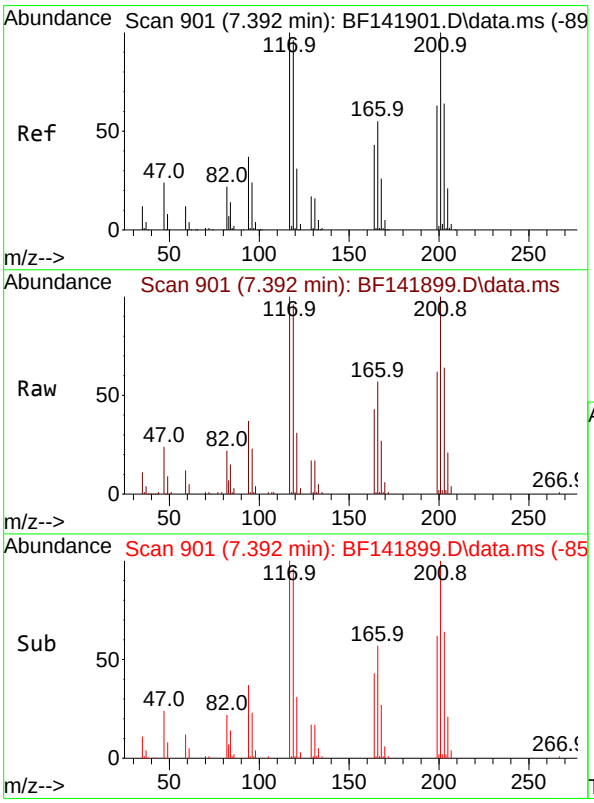
#17
2-Methylphenol
Concen: 9.945 ng
RT: 7.116 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 117869

Ion	Ratio	Lower	Upper
107	100		
108	111.2	90.2	135.2
77	48.5	39.6	59.4
79	49.6	39.1	58.7

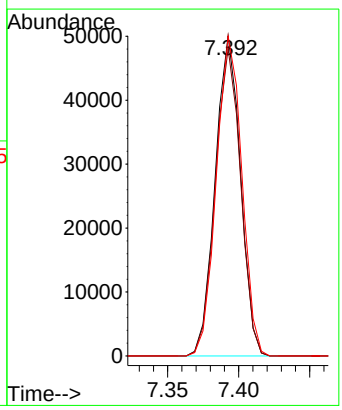


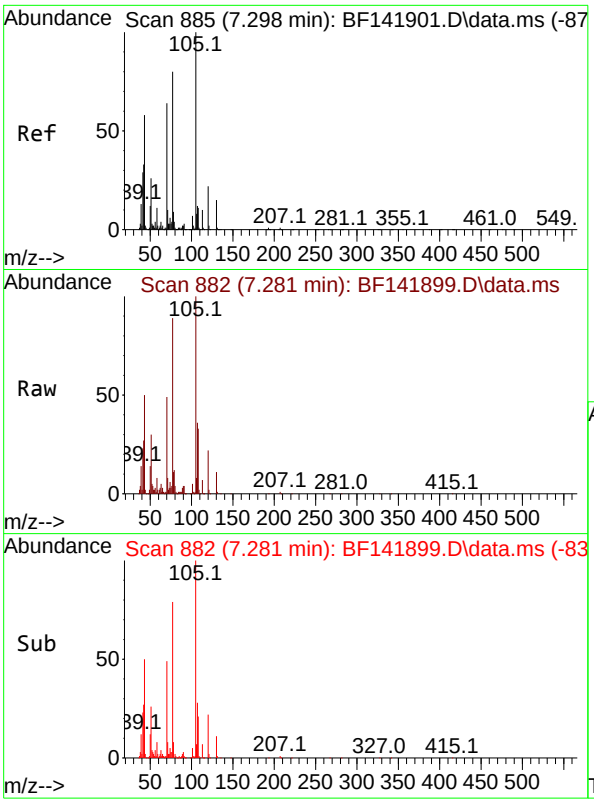


#18
Hexachloroethane
Concen: 10.111 ng
RT: 7.392 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:117 Resp: 61809

Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.9	115.3
201	99.9	79.9	119.9



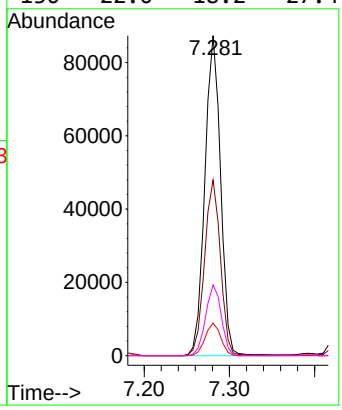


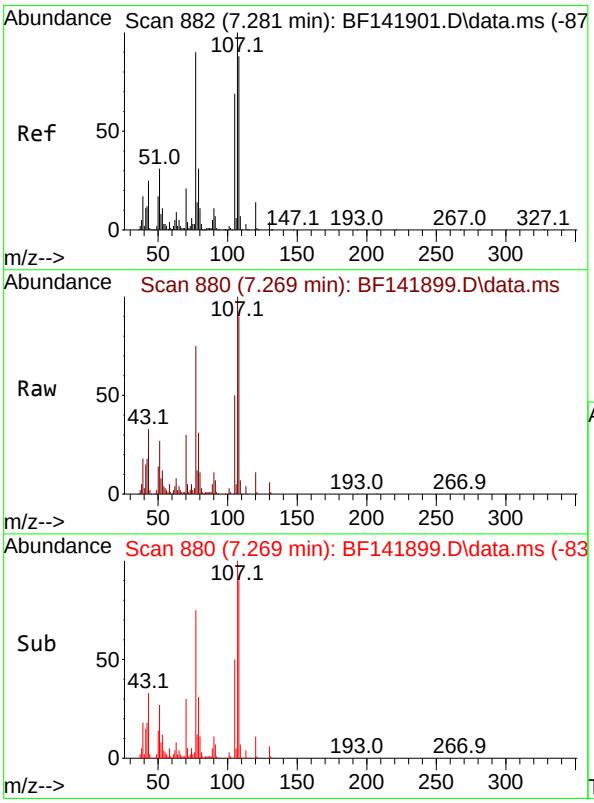
#19
n-Nitroso-di-n-propylamine
Concen: 10.194 ng
RT: 7.281 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 112281

Ion	Ratio	Lower	Upper
70	100		
42	54.9	41.4	62.0
101	10.2	8.2	12.2
130	22.0	18.2	27.4

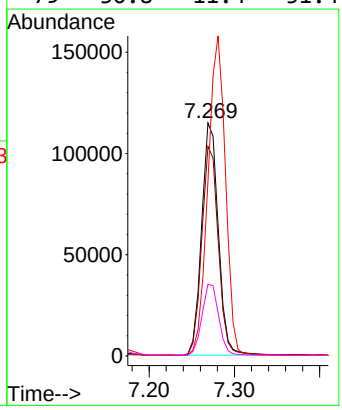


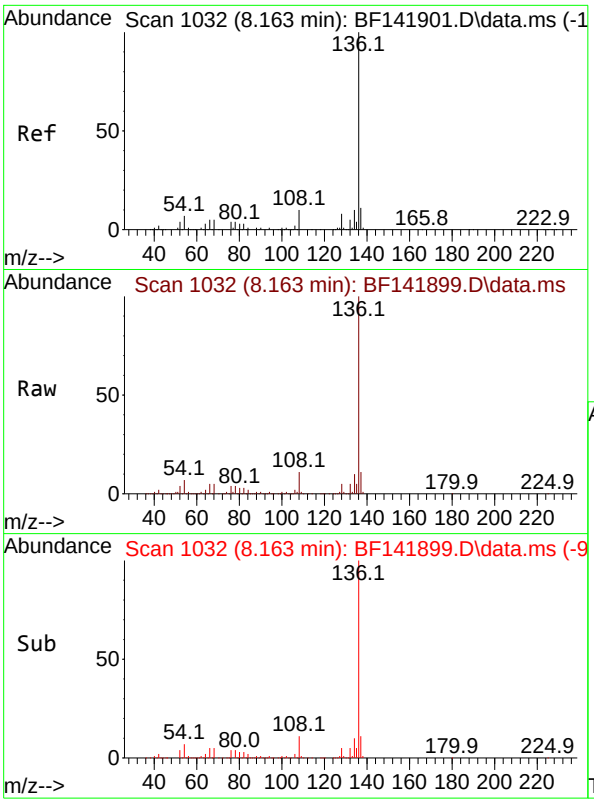


#20
3+4-Methylphenols
Concen: 10.296 ng
RT: 7.269 min Scan# 880
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:107 Resp: 156526

Ion	Ratio	Lower	Upper
107	100		
108	89.9	68.4	108.4
77	75.0	69.7	109.7
79	30.8	11.4	51.4



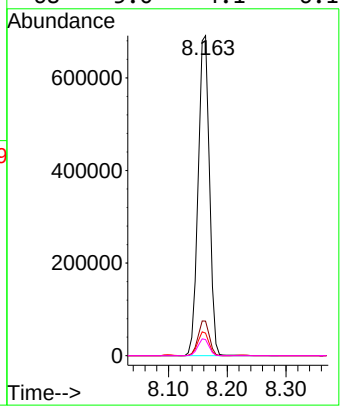


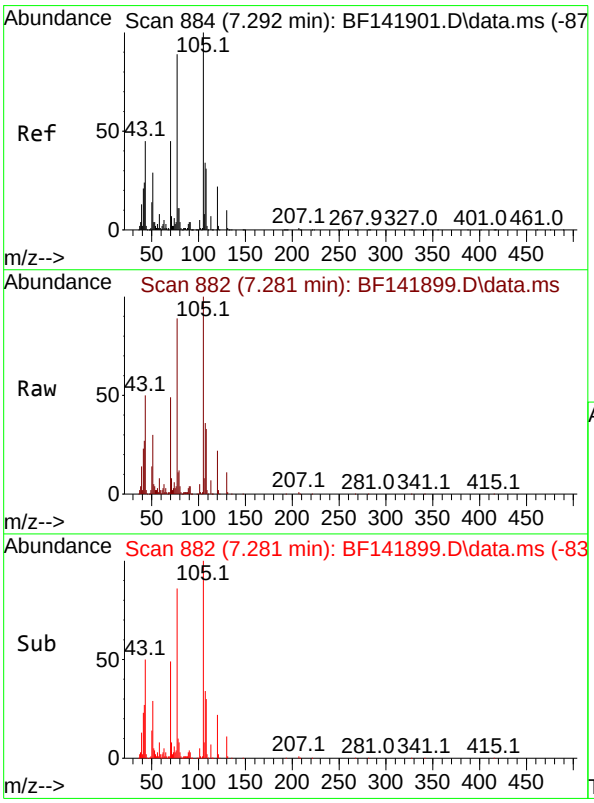
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 921725

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	7.0	5.8	8.8
68	5.0	4.1	6.1

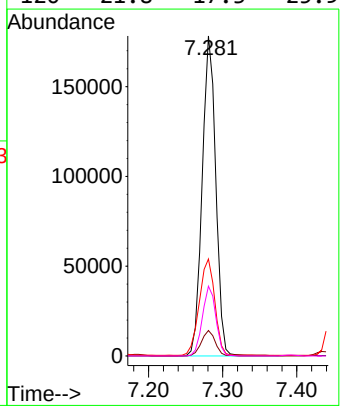


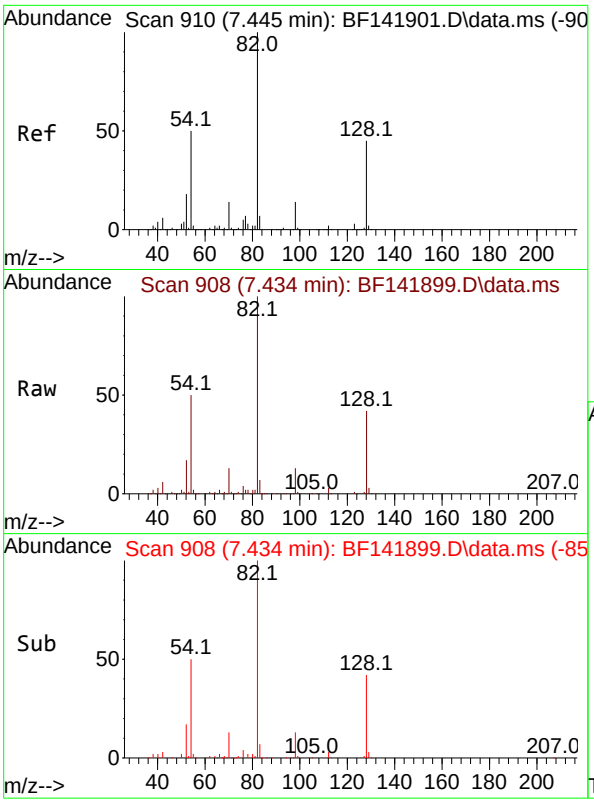


#22
Acetophenone
Concen: 10.282 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:105 Resp: 227350

Ion	Ratio	Lower	Upper
105	100		
71	8.0	5.8	8.8
51	30.3	23.4	35.0
120	21.8	17.3	25.9



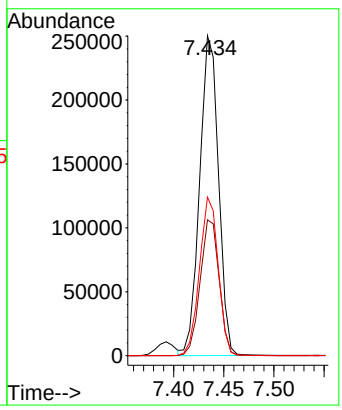


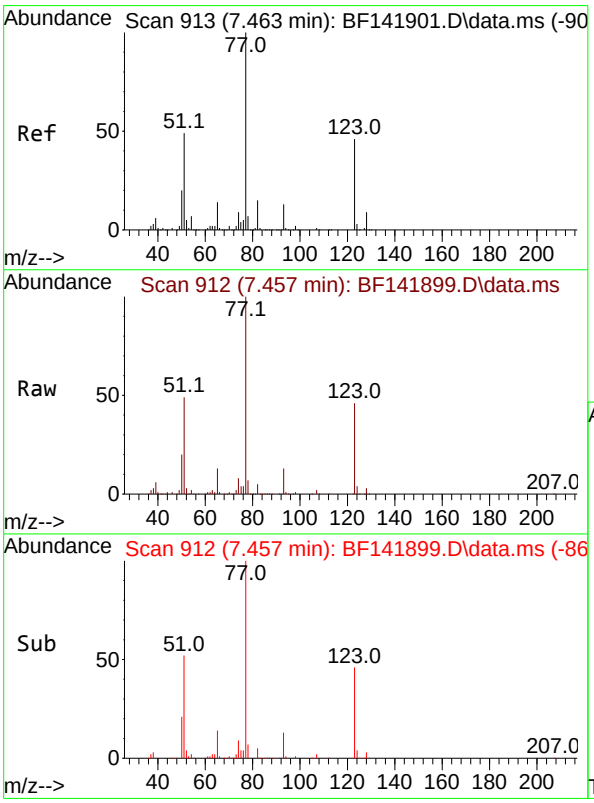
#23
Nitrobenzene-d5
Concen: 19.951 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 328098

Ion	Ratio	Lower	Upper
82	100		
128	42.5	36.0	54.0
54	49.6	39.6	59.4

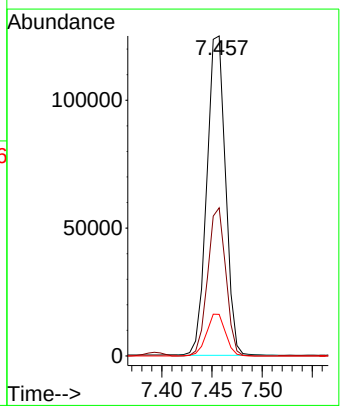


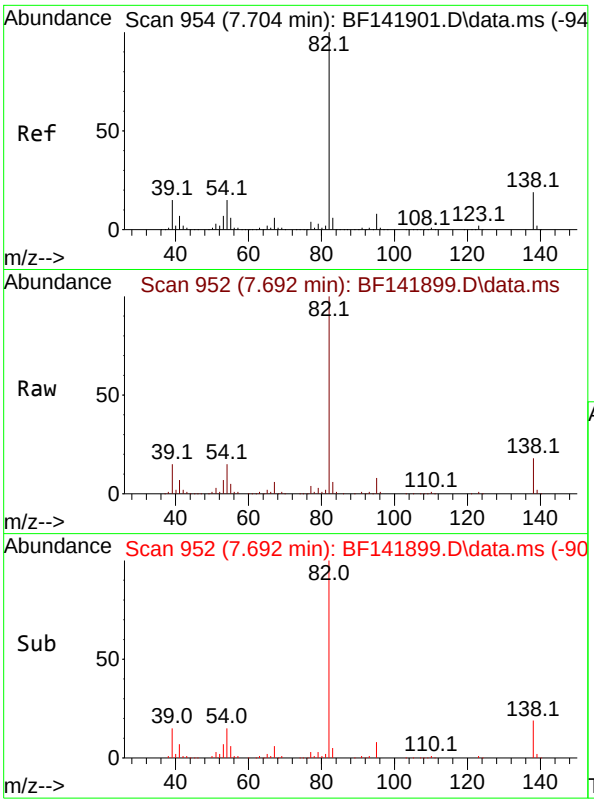


#24
Nitrobenzene
Concen: 9.922 ng
RT: 7.457 min Scan# 912
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion: 77 Resp: 161777

Ion	Ratio	Lower	Upper
77	100		
123	46.3	37.0	55.4
65	13.0	11.3	16.9



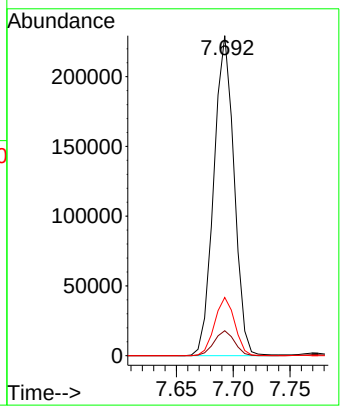


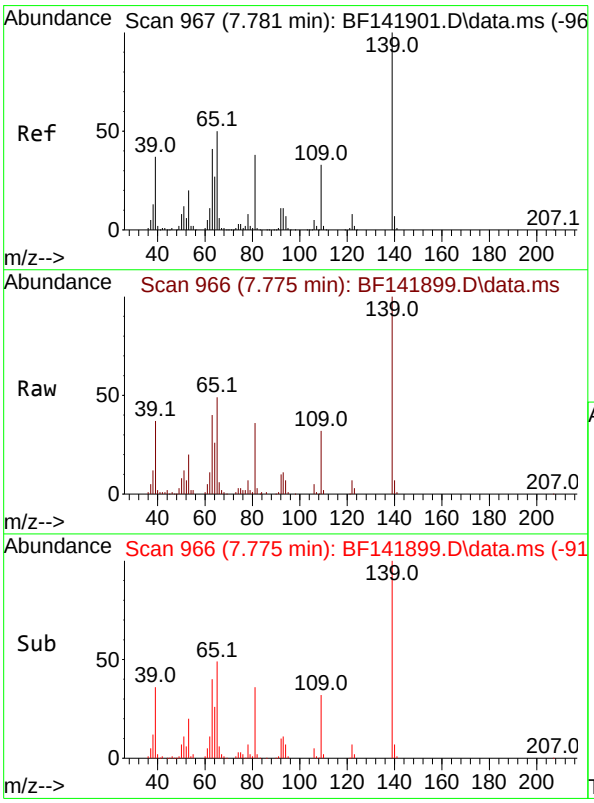
#25
Isophorone
Concen: 9.842 ng
RT: 7.692 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 285760

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	18.2	14.9	22.3

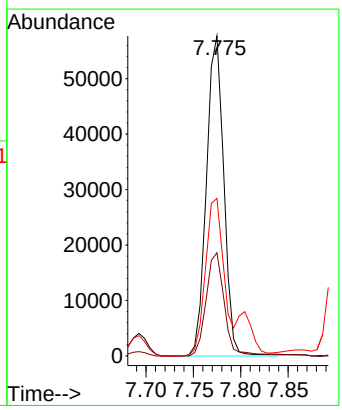


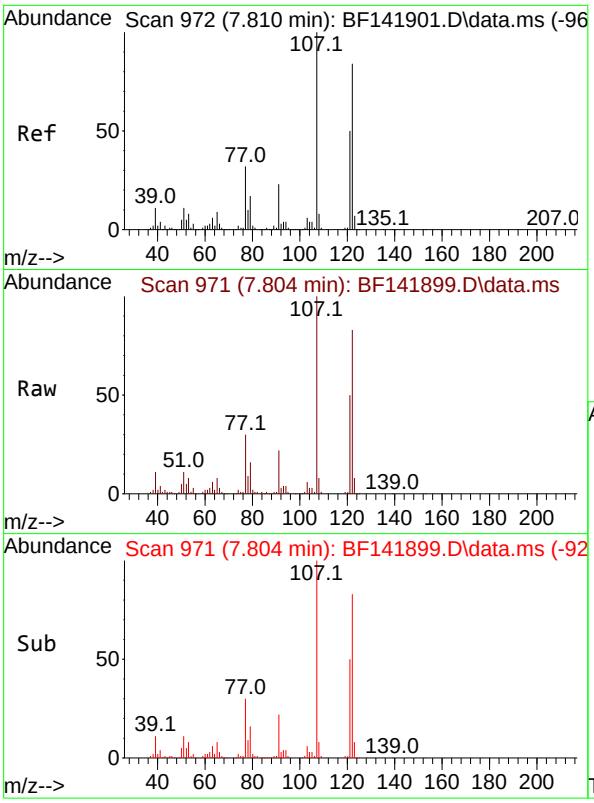


#26
2-Nitrophenol
Concen: 9.174 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:139 Resp: 73301

Ion	Ratio	Lower	Upper
139	100		
109	32.2	26.5	39.7
65	49.3	40.3	60.5



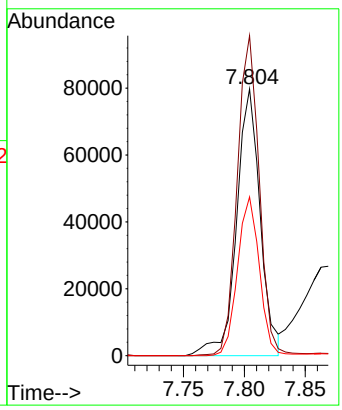


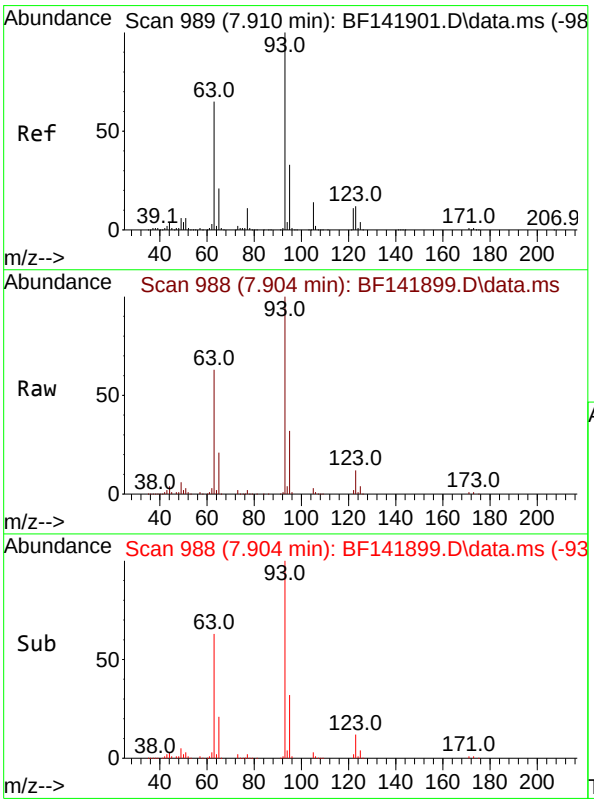
#27
2,4-Dimethylphenol
Concen: 9.784 ng
RT: 7.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 107669

Ion	Ratio	Lower	Upper
122	100		
107	120.0	94.8	142.2
121	59.5	47.8	71.6

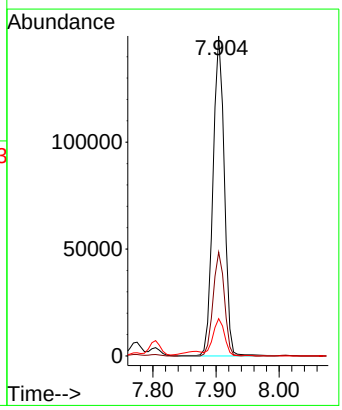


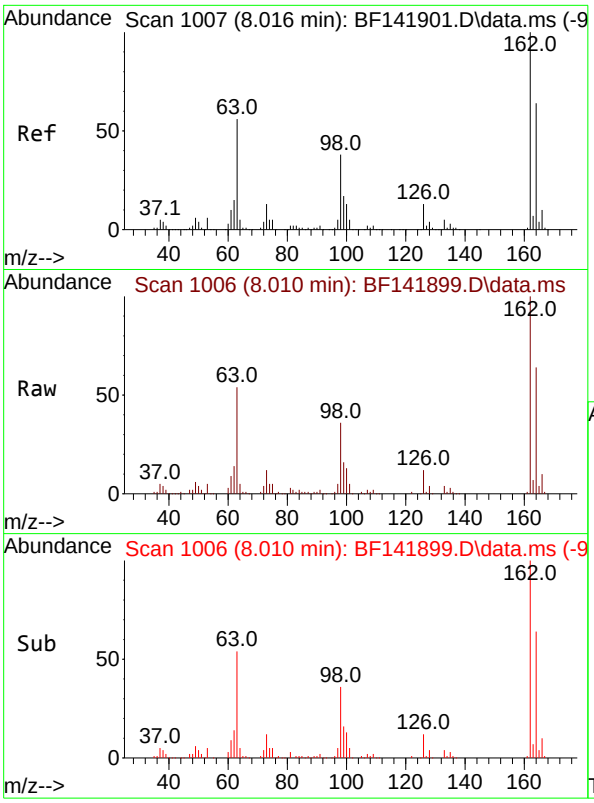


#28
bis(2-Chloroethoxy)methane
Concen: 10.298 ng
RT: 7.904 min Scan# 988
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion: 93 Resp: 187307

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.6	40.0
123	11.6	10.2	15.4



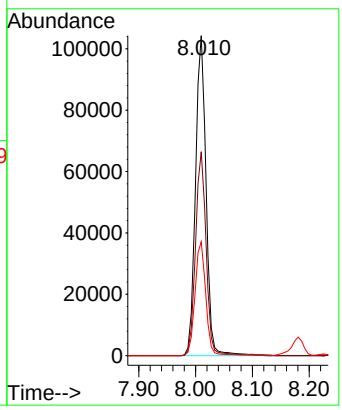


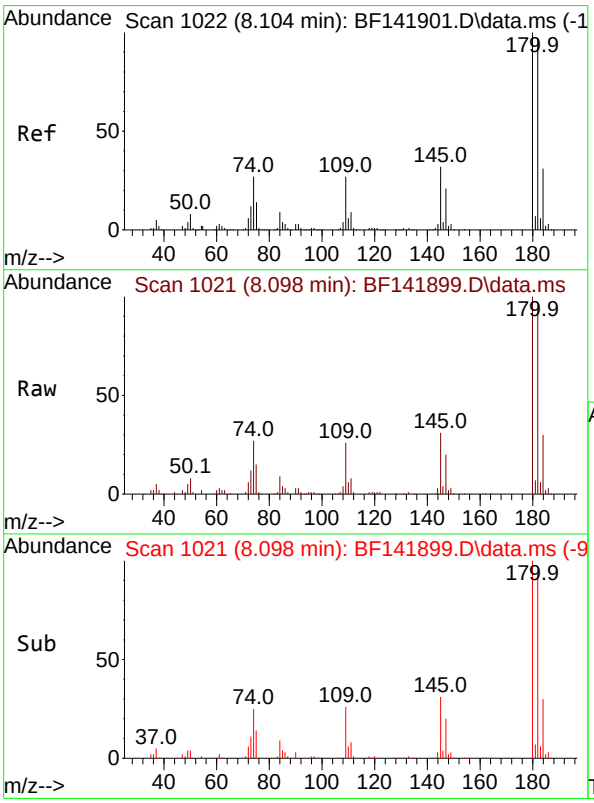
#29
2,4-Dichlorophenol
Concen: 9.941 ng
RT: 8.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 135772

Ion	Ratio	Lower	Upper
162	100		
164	63.7	43.8	83.8
98	35.6	18.1	58.1

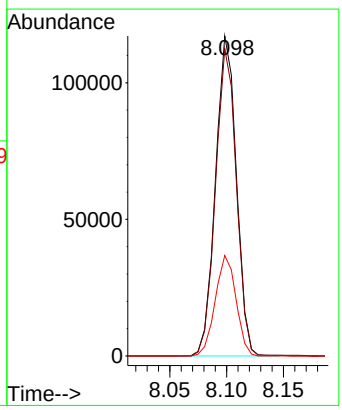


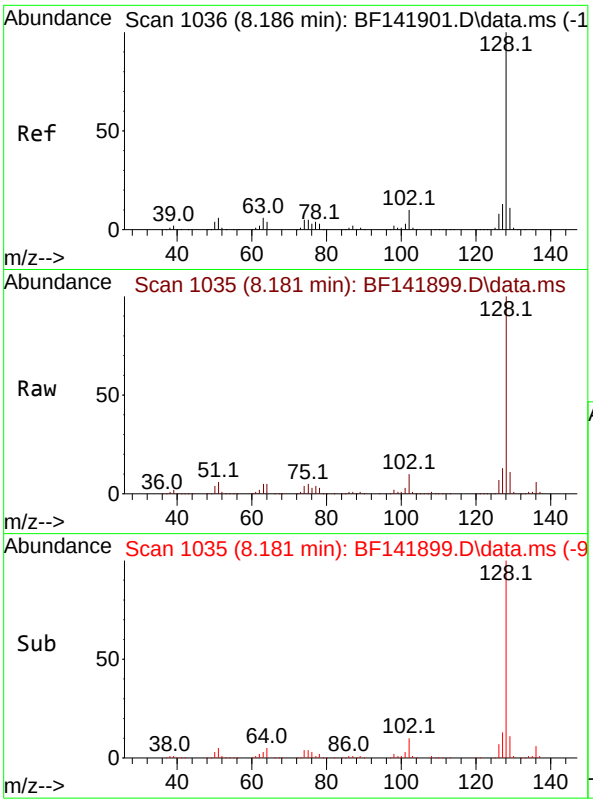


#30
1,2,4-Trichlorobenzene
Concen: 9.941 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:180 Resp: 149790

Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.5	116.3
145	31.4	25.8	38.6



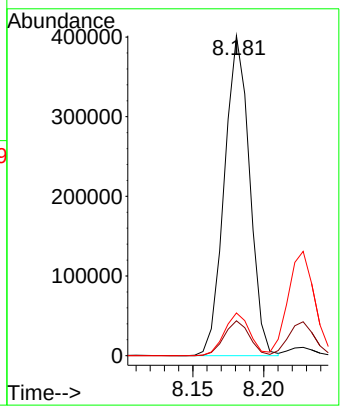


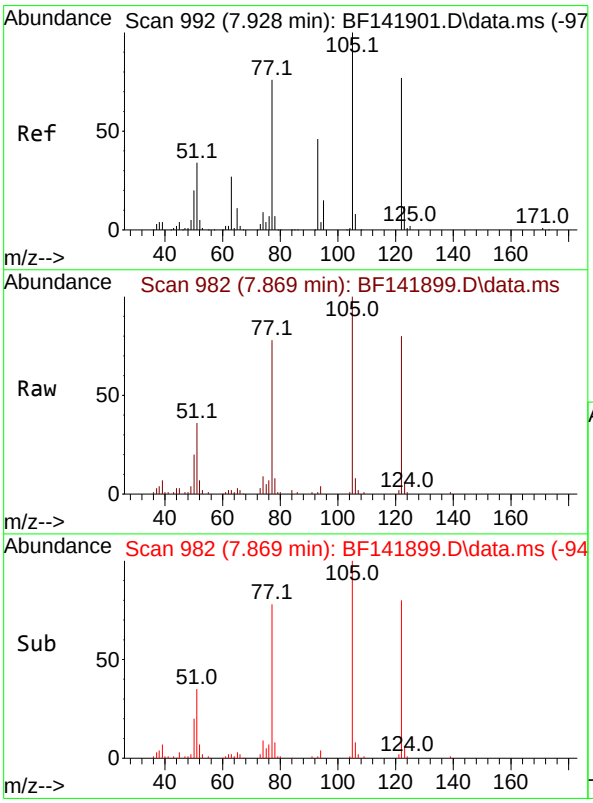
#31
Naphthalene
Concen: 10.493 ng
RT: 8.181 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 495470

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	13.4	10.8	16.2

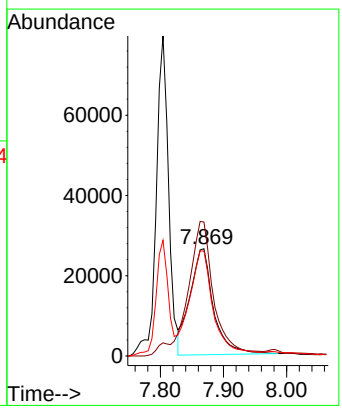


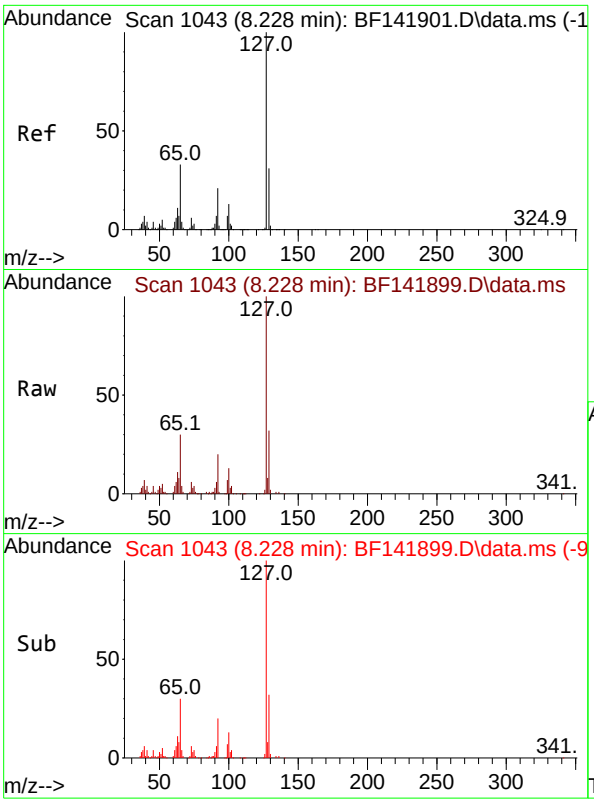


#32
Benzoic acid
Concen: 7.136 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.059 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:122 Resp: 68640

Ion	Ratio	Lower	Upper
122	100		
105	124.8	107.9	147.9
77	97.8	79.0	119.0



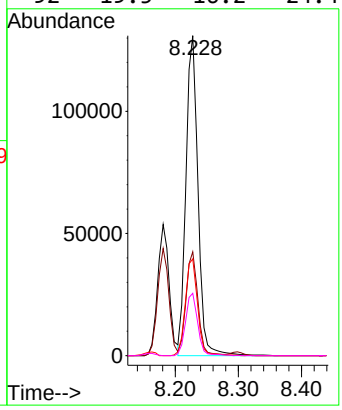


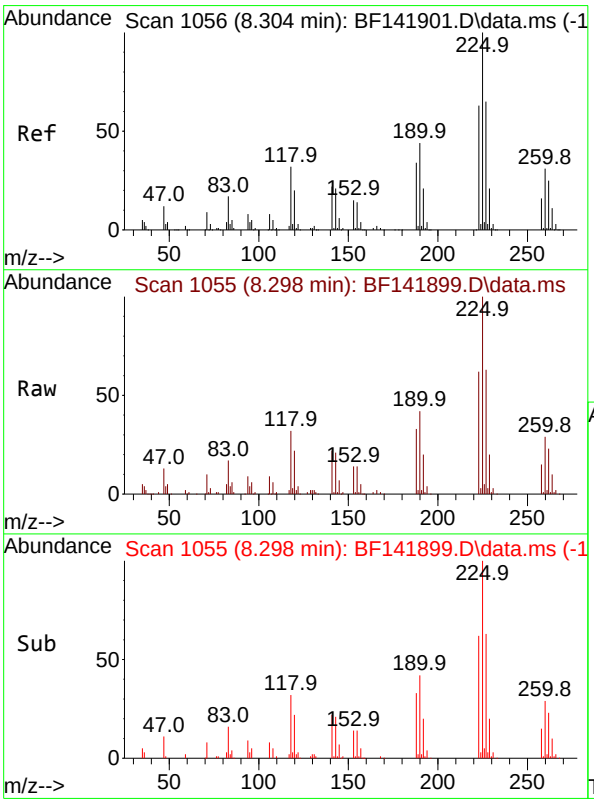
#33
4-Chloroaniline
Concen: 10.441 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 173977

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.2	39.4
65	30.3	25.4	38.2
92	19.5	16.2	24.4

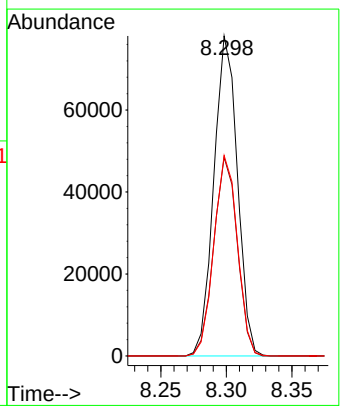


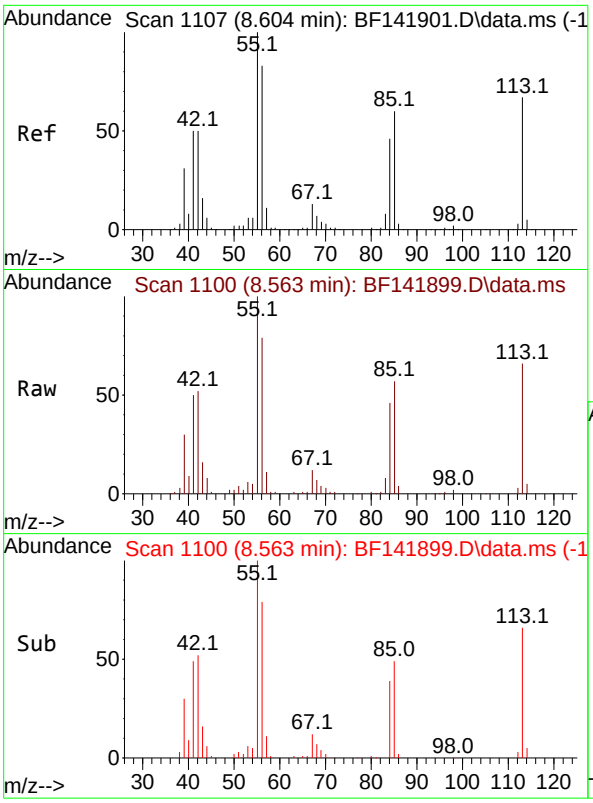


#34
Hexachlorobutadiene
Concen: 9.931 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:225 Resp: 97298

Ion	Ratio	Lower	Upper
225	100		
223	62.0	50.6	75.8
227	62.7	52.2	78.2



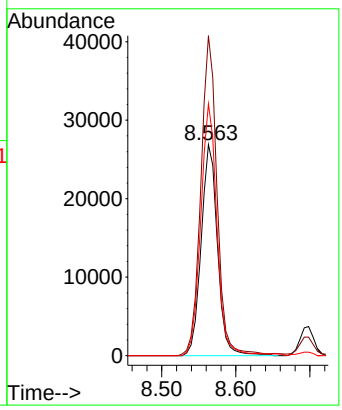


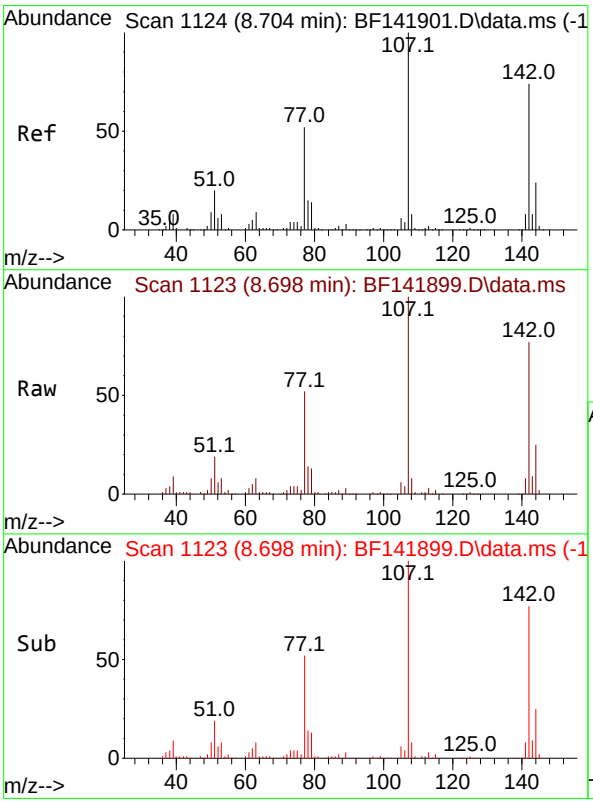
#35
Caprolactam
Concen: 9.922 ng
RT: 8.563 min Scan# 11
Delta R.T. -0.041 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 41208

Ion	Ratio	Lower	Upper
113	100		
55	151.6	129.6	169.6
56	119.3	104.0	144.0

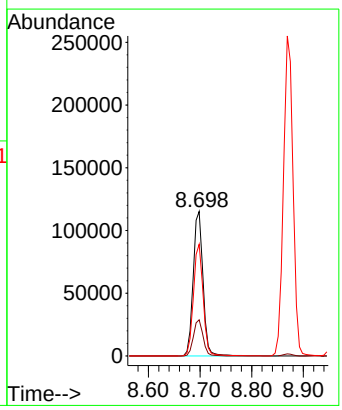


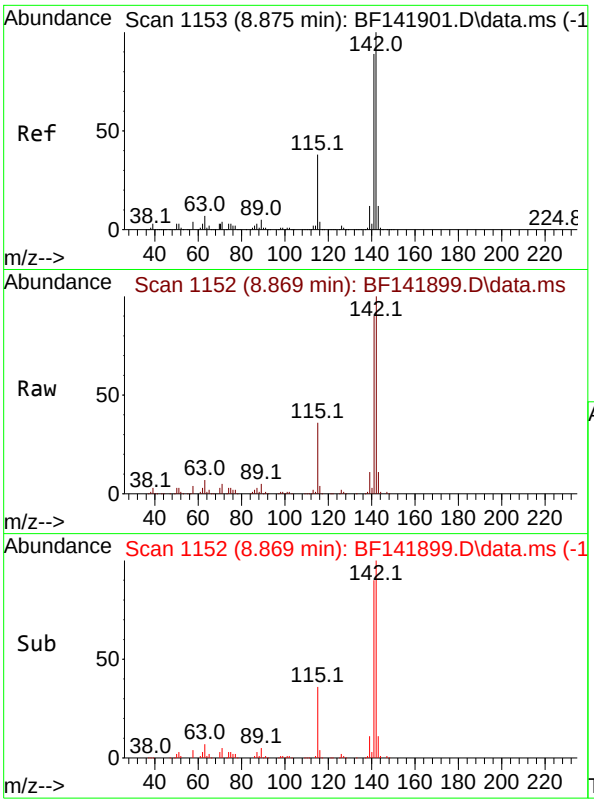


#36
4-Chloro-3-methylphenol
Concen: 10.029 ng
RT: 8.698 min Scan# 1123
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:107 Resp: 152340

Ion	Ratio	Lower	Upper
107	100		
144	25.1	19.0	28.6
142	77.3	59.2	88.8



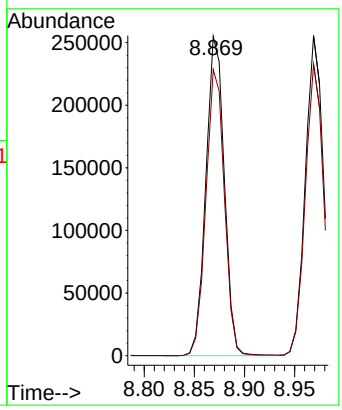


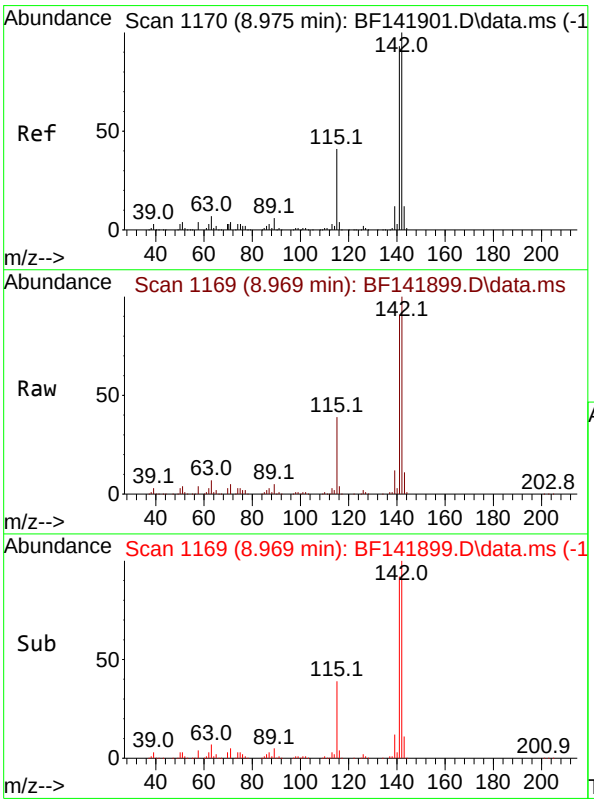
#37
2-Methylnaphthalene
Concen: 10.313 ng
RT: 8.869 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 326733

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.2	106.8

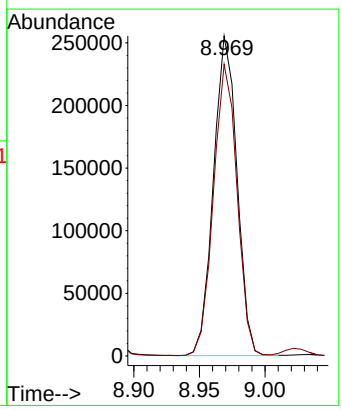


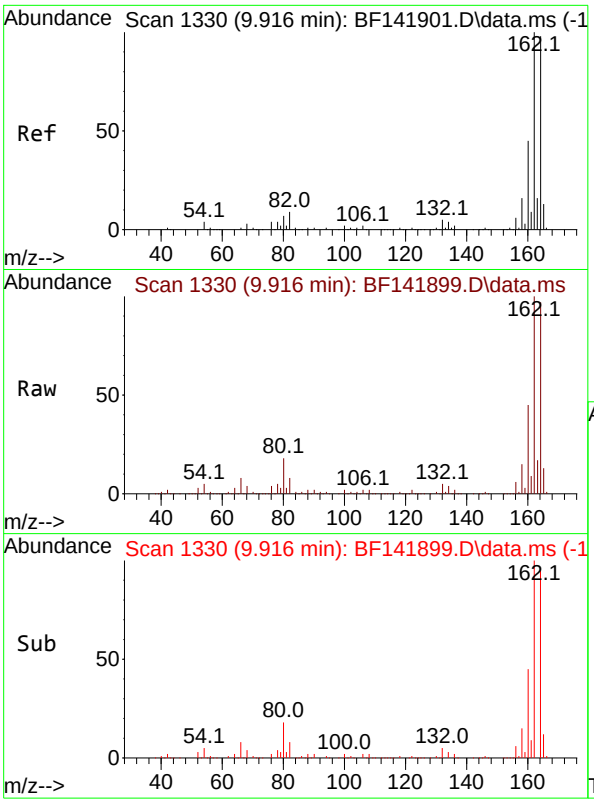


#38
1-Methylnaphthalene
Concen: 10.376 ng
RT: 8.969 min Scan# 1169
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:142 Resp: 318324

Ion	Ratio	Lower	Upper
142	100		
141	91.1	74.2	111.4



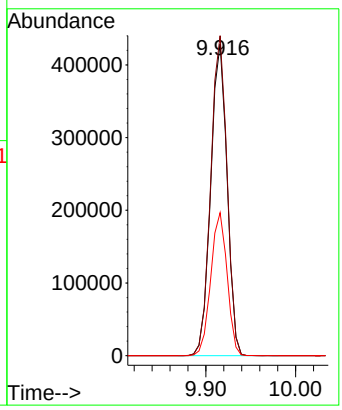


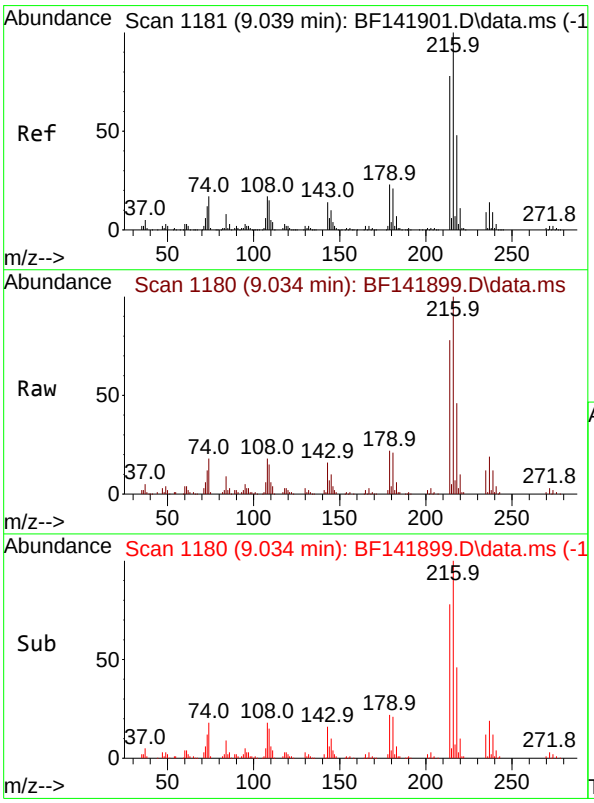
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 541295

Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.8	122.6
160	45.9	36.7	55.1

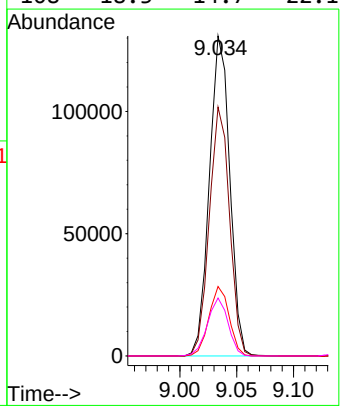


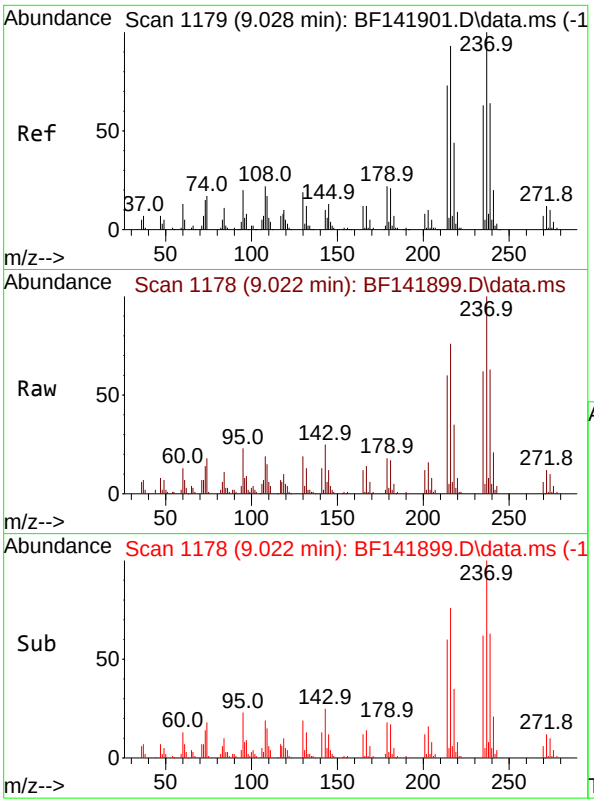


#40
1,2,4,5-Tetrachlorobenzene
Concen: 9.905 ng
RT: 9.034 min Scan# 1180
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:216 Resp: 163481

Ion	Ratio	Lower	Upper
216	100		
214	77.1	61.9	92.9
179	21.5	18.1	27.1
108	18.3	14.7	22.1



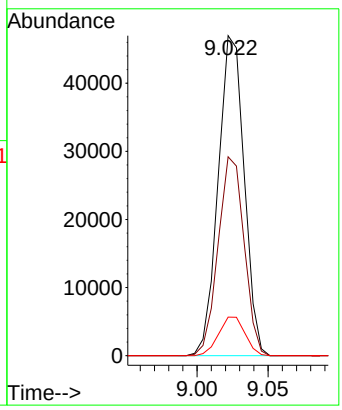


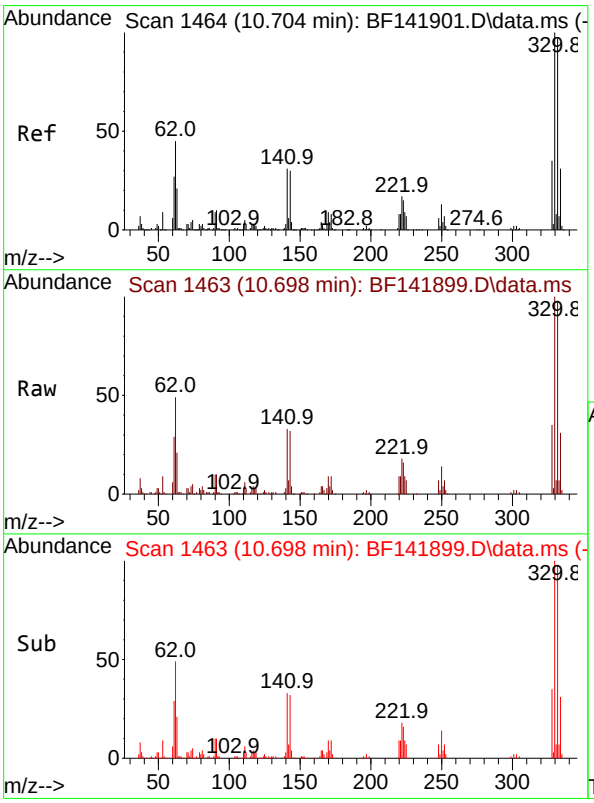
#41
Hexachlorocyclopentadiene
Concen: 9.177 ng
RT: 9.022 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 59769

Ion	Ratio	Lower	Upper
237	100		
235	62.1	43.1	83.1
272	12.0	0.0	32.0

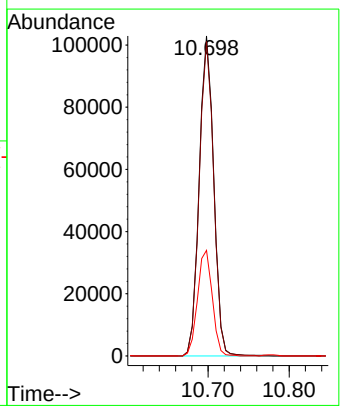


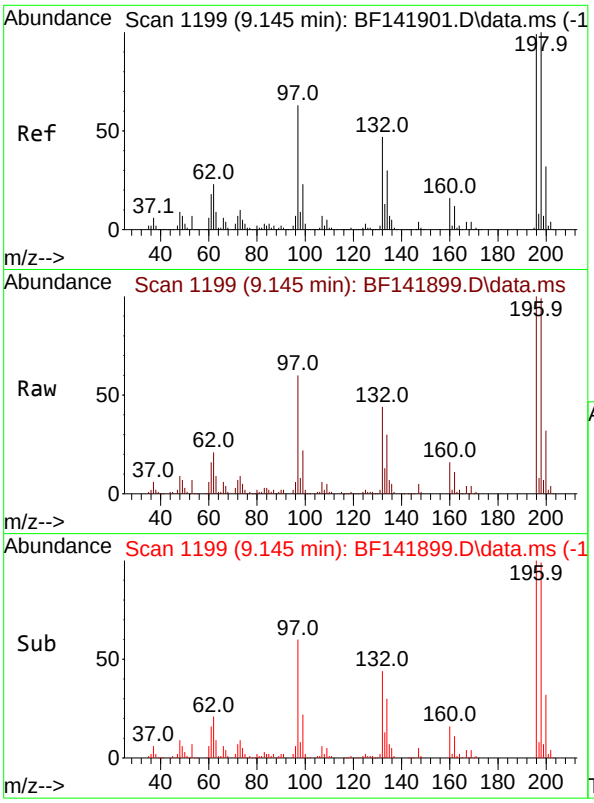


#42
2,4,6-Tribromophenol
Concen: 18.630 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:330 Resp: 127785

Ion	Ratio	Lower	Upper
330	100		
332	97.8	77.6	116.4
141	33.6	24.7	37.1



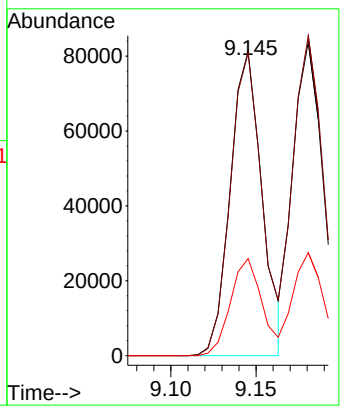


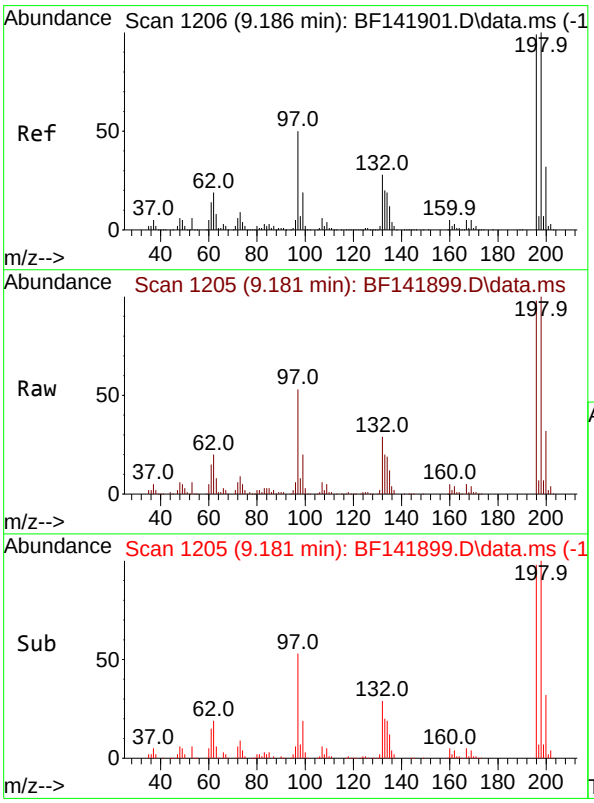
#43
2,4,6-Trichlorophenol
Concen: 9.777 ng
RT: 9.145 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 105191

Ion	Ratio	Lower	Upper
196	100		
198	99.4	80.6	121.0
200	31.9	25.8	38.6

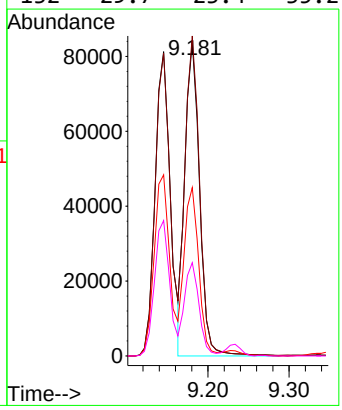


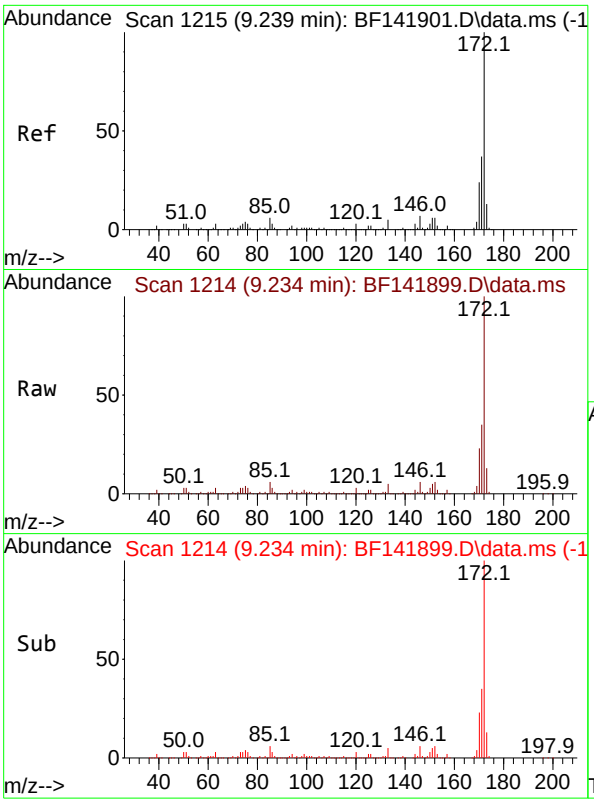


#44
2,4,5-Trichlorophenol
Concen: 9.692 ng
RT: 9.181 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:196 Resp: 105943

Ion	Ratio	Lower	Upper
196	100		
198	102.0	80.7	121.1
97	53.7	42.1	63.1
132	29.7	23.4	35.2



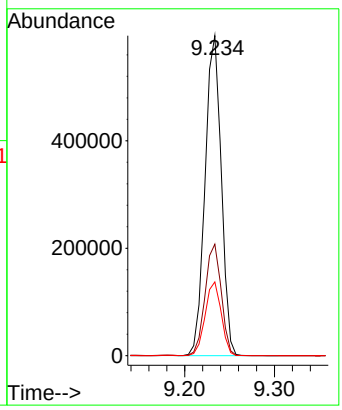


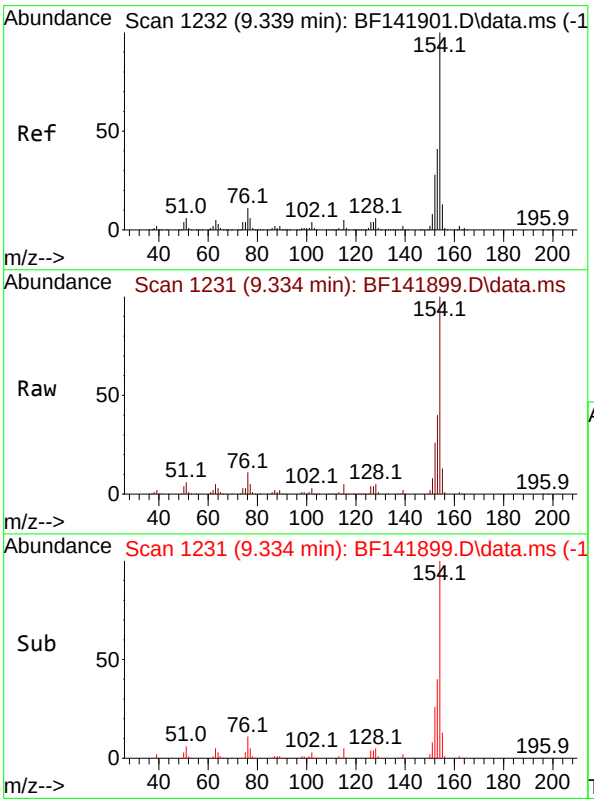
#45
2-Fluorobiphenyl
Concen: 21.003 ng
RT: 9.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 746589

Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.3	43.9
170	23.1	19.4	29.0

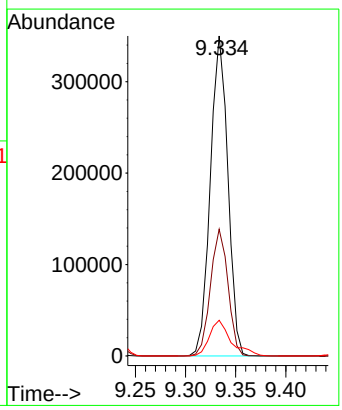


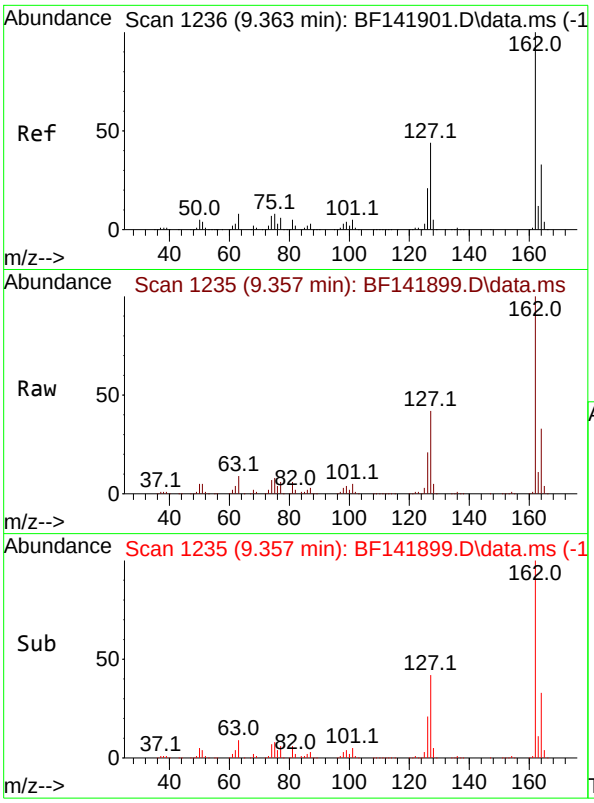


#46
1,1'-Biphenyl
Concen: 10.372 ng
RT: 9.334 min Scan# 1231
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:154 Resp: 425640

Ion	Ratio	Lower	Upper
154	100		
153	39.6	21.1	61.1
76	11.1	0.0	31.3



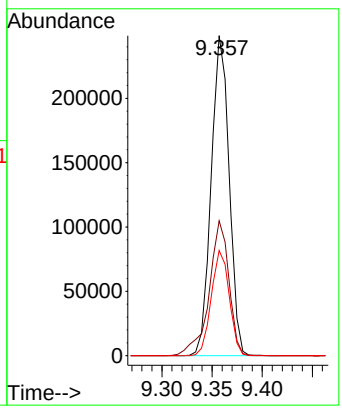


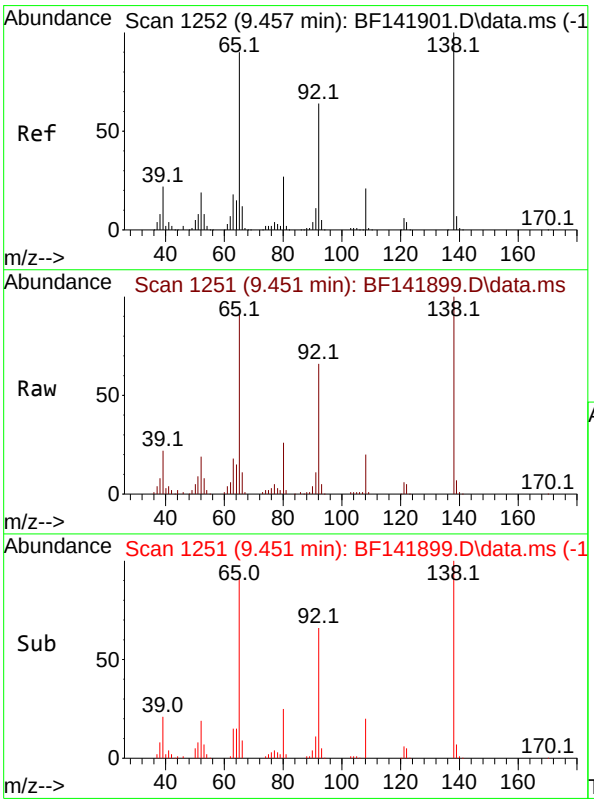
#47
2-Chloronaphthalene
Concen: 10.094 ng
RT: 9.357 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 308729

Ion	Ratio	Lower	Upper
162	100		
127	42.1	35.5	53.3
164	32.9	26.6	40.0

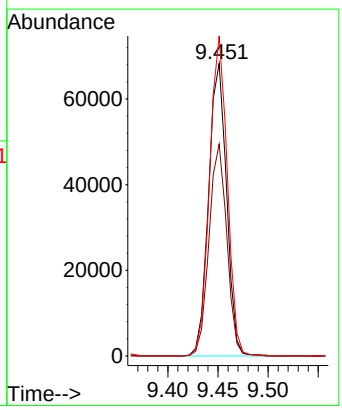


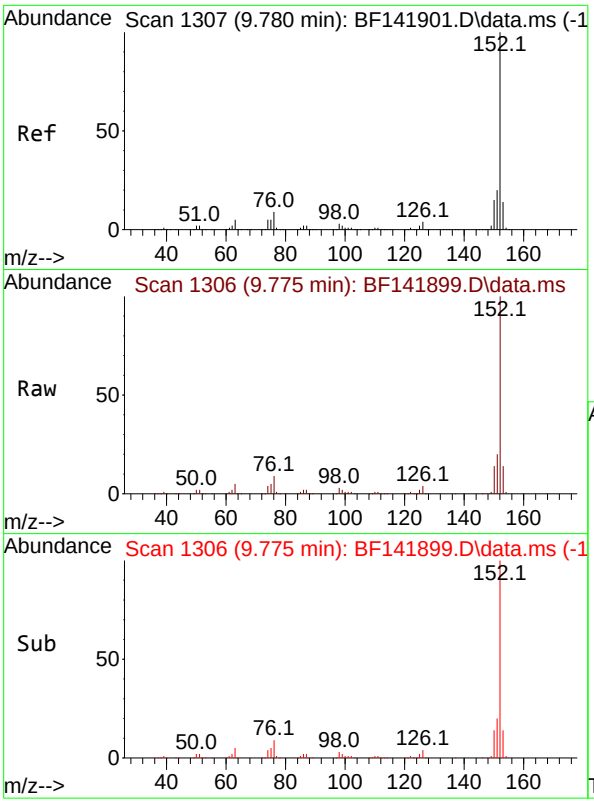


#48
2-Nitroaniline
Concen: 9.658 ng
RT: 9.451 min Scan# 1251
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion: 65 Resp: 84854

Ion	Ratio	Lower	Upper
65	100		
92	72.5	56.6	84.8
138	109.4	88.6	133.0



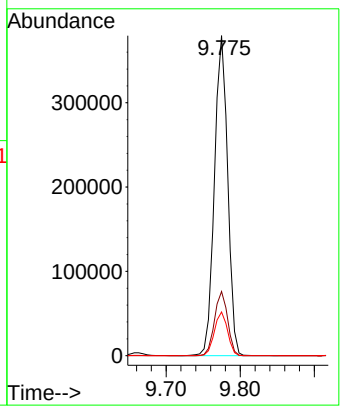


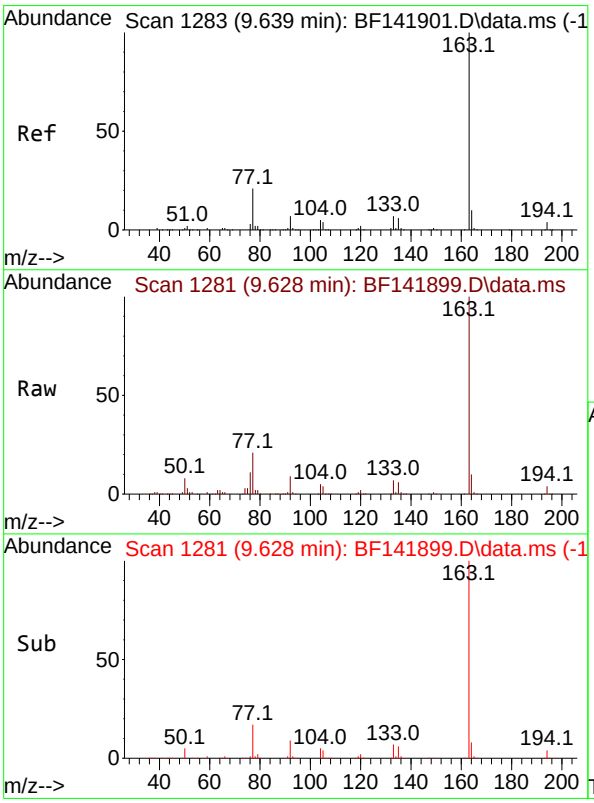
#49
Acenaphthylene
Concen: 10.383 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 470801

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.3	24.5
153	13.7	11.1	16.7

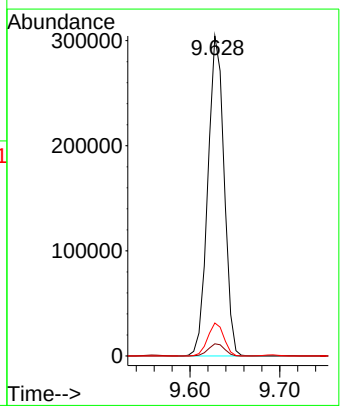


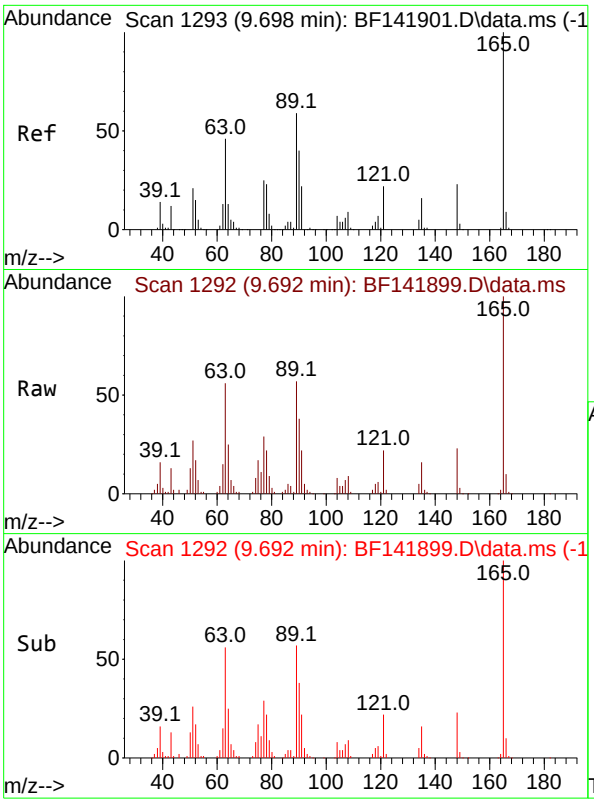


#50
Dimethylphthalate
Concen: 10.176 ng
RT: 9.628 min Scan# 1281
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:163 Resp: 382722

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.3	8.2	12.4



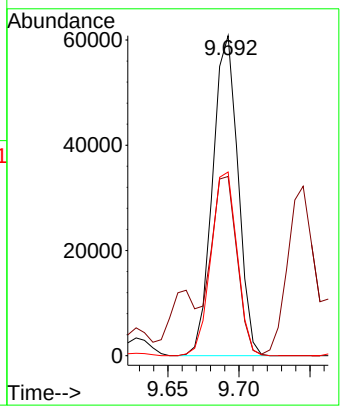


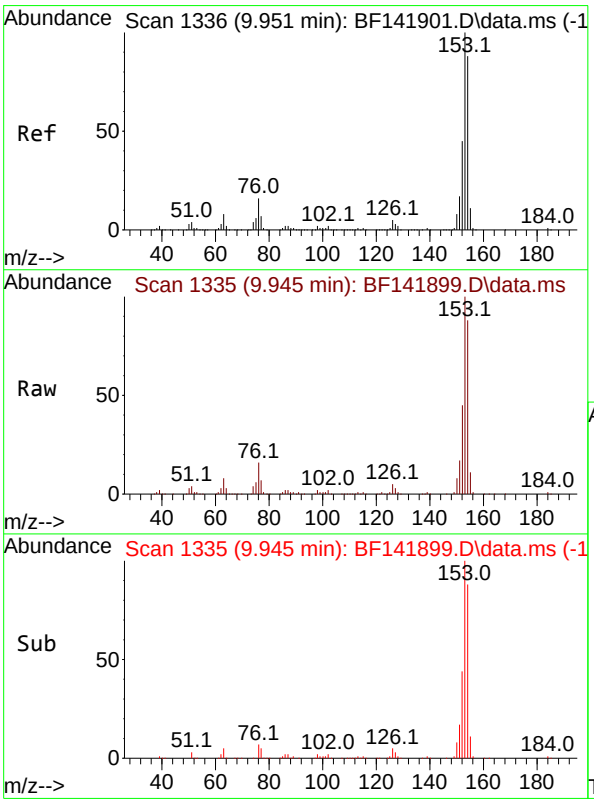
#51
2,6-Dinitrotoluene
Concen: 9.663 ng
RT: 9.692 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 75577

Ion	Ratio	Lower	Upper
165	100		
63	56.0	47.0	70.4
89	57.4	47.4	71.2

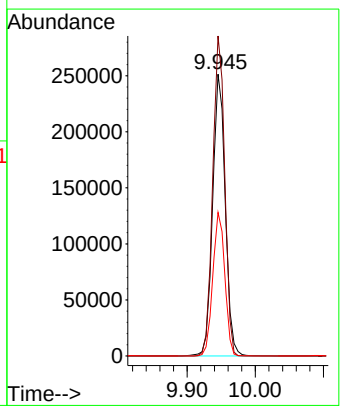


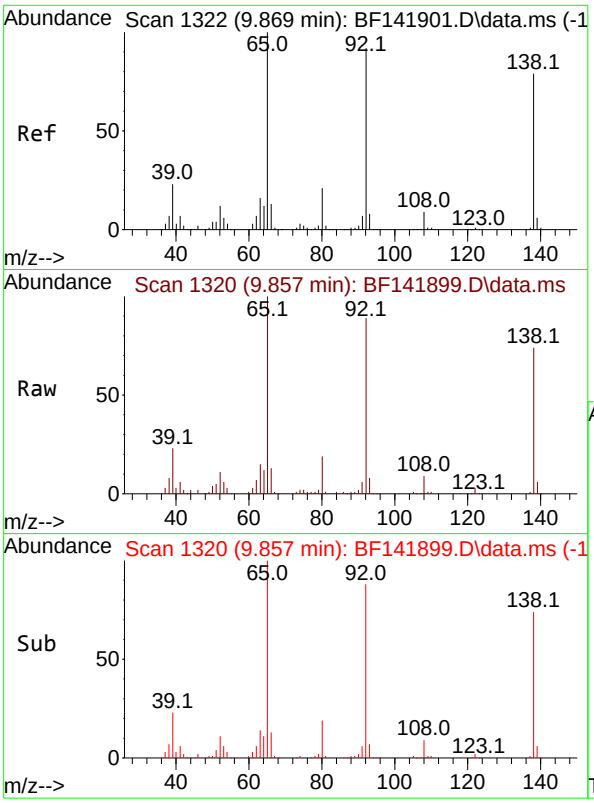


#52
Acenaphthene
Concen: 10.101 ng
RT: 9.945 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:154 Resp: 323406

Ion	Ratio	Lower	Upper
154	100		
153	113.6	90.7	136.1
152	50.9	41.1	61.7



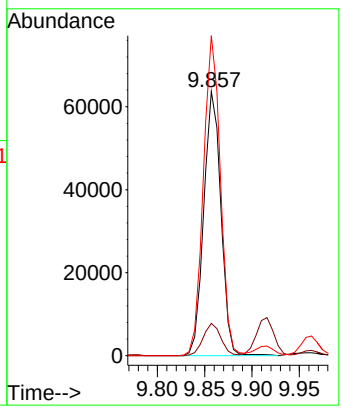


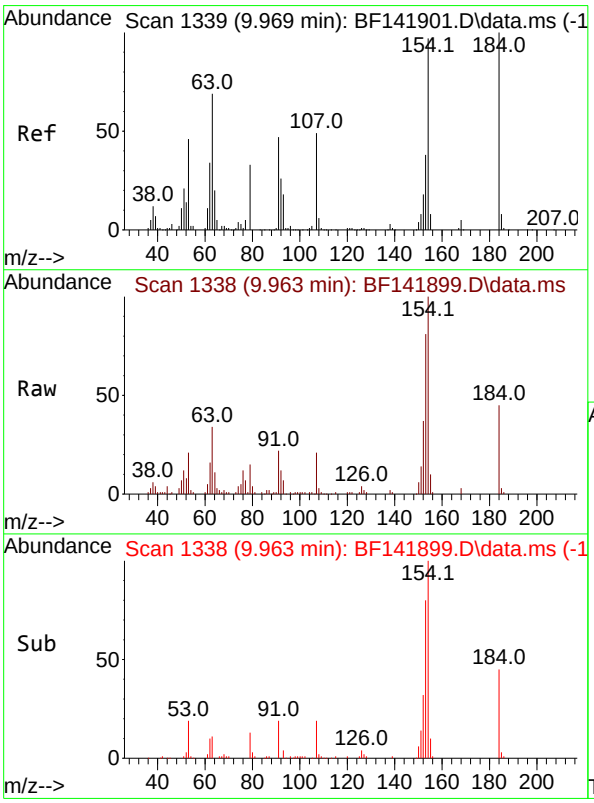
#53
3-Nitroaniline
Concen: 9.955 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 79944

Ion	Ratio	Lower	Upper
138	100		
108	12.2	9.3	13.9
92	121.1	93.5	140.3

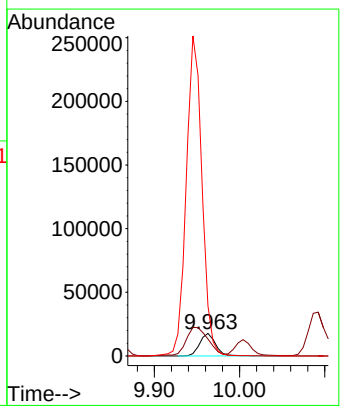


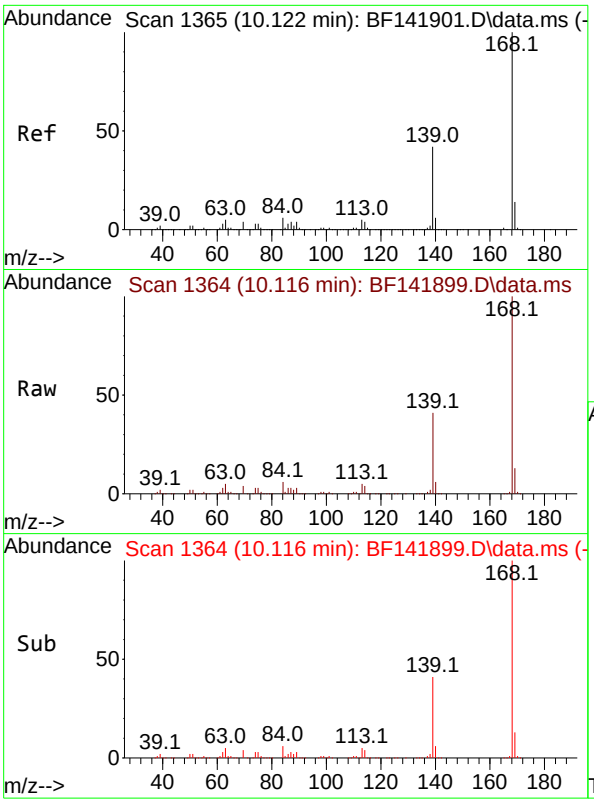


#54
2,4-Dinitrophenol
Concen: 11.386 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:184 Resp: 23121

Ion	Ratio	Lower	Upper
184	100		
63	75.2	60.2	90.4
154	222.1	132.9	199.3#



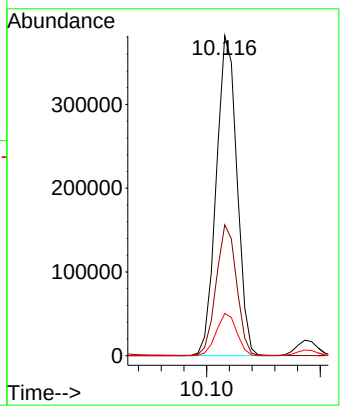


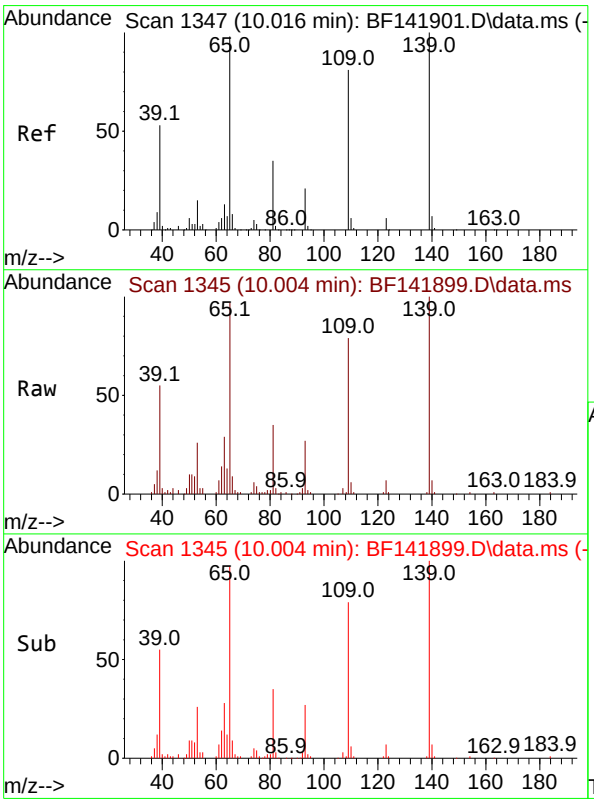
#55
Dibenzofuran
Concen: 10.593 ng
RT: 10.116 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 483596

Ion	Ratio	Lower	Upper
168	100		
139	40.9	33.9	50.9
169	13.2	11.0	16.4

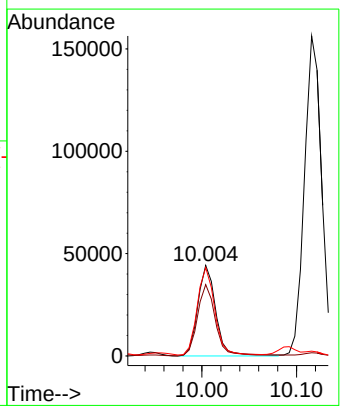


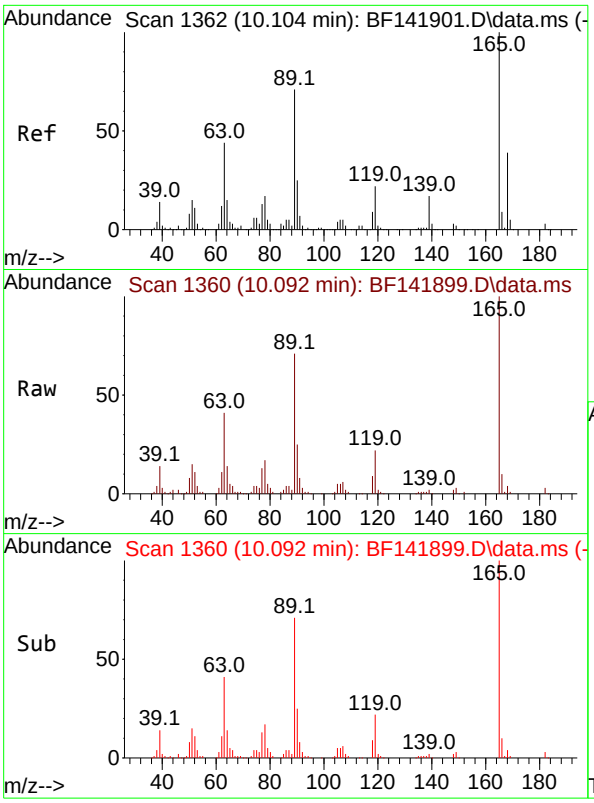


#56
4-Nitrophenol
Concen: 9.706 ng
RT: 10.004 min Scan# 1345
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:139 Resp: 58549

Ion	Ratio	Lower	Upper
139	100		
109	78.8	61.6	101.6
65	97.5	79.4	119.4



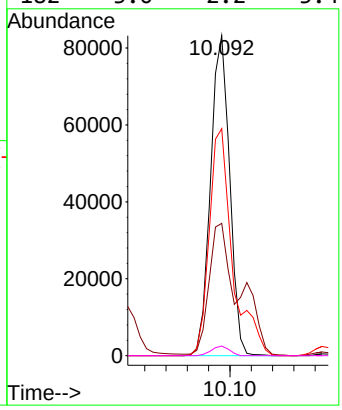


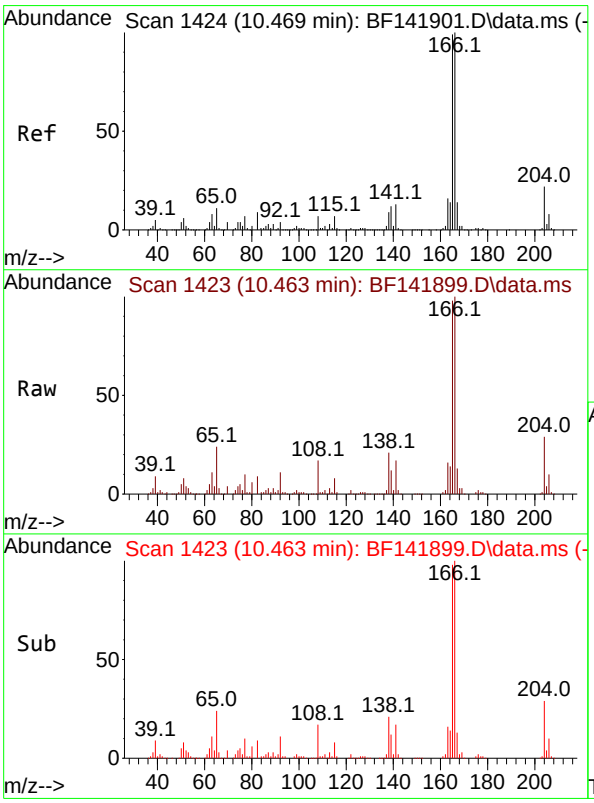
#57
2,4-Dinitrotoluene
Concen: 10.035 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 103313

Ion	Ratio	Lower	Upper
165	100		
63	41.3	35.4	53.2
89	70.9	56.6	84.8
182	3.0	2.2	3.4

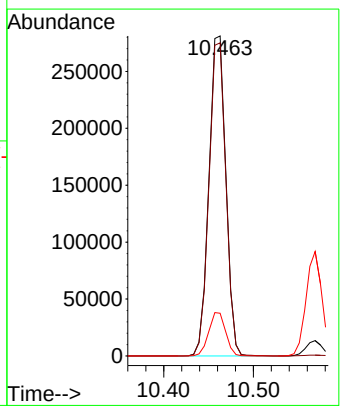


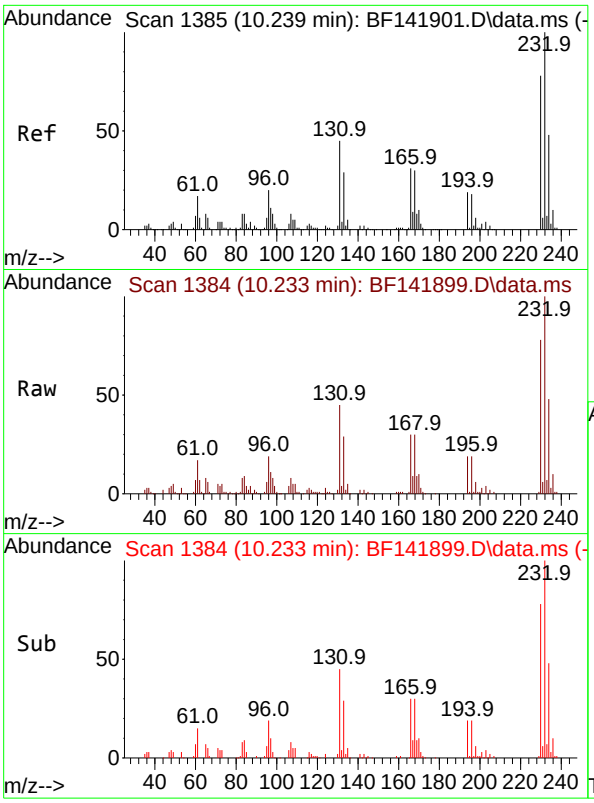


#58
Fluorene
Concen: 10.452 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:166 Resp: 368370

Ion	Ratio	Lower	Upper
166	100		
165	97.8	79.0	118.4
167	13.3	11.0	16.4



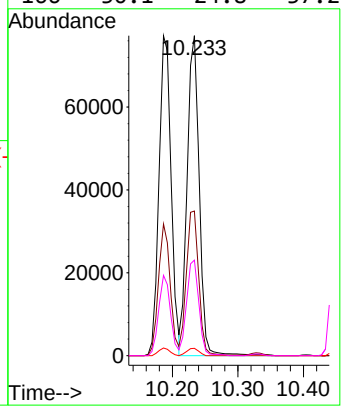


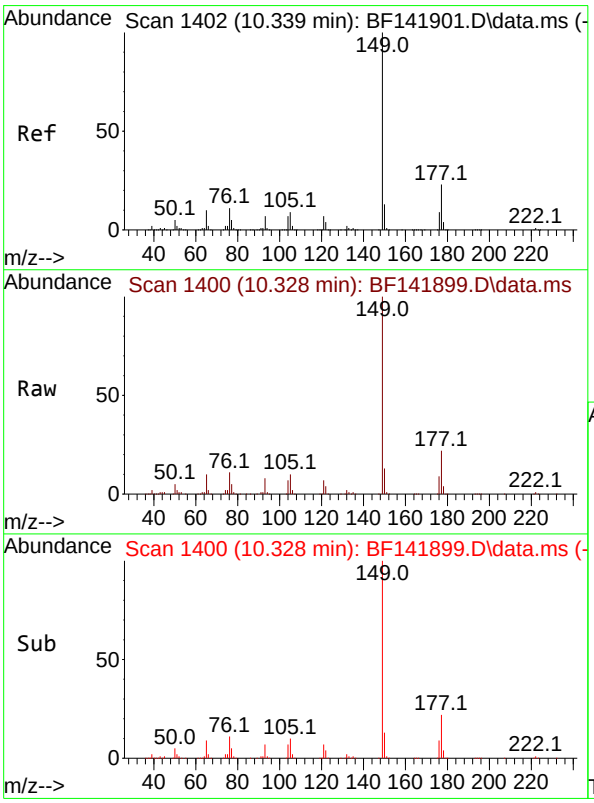
#59
2,3,4,6-Tetrachlorophenol
Concen: 9.954 ng
RT: 10.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 98725

Ion	Ratio	Lower	Upper
232	100		
131	46.2	37.3	55.9
130	2.3	1.9	2.9
166	30.1	24.8	37.2

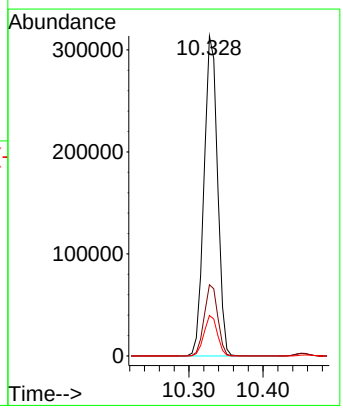


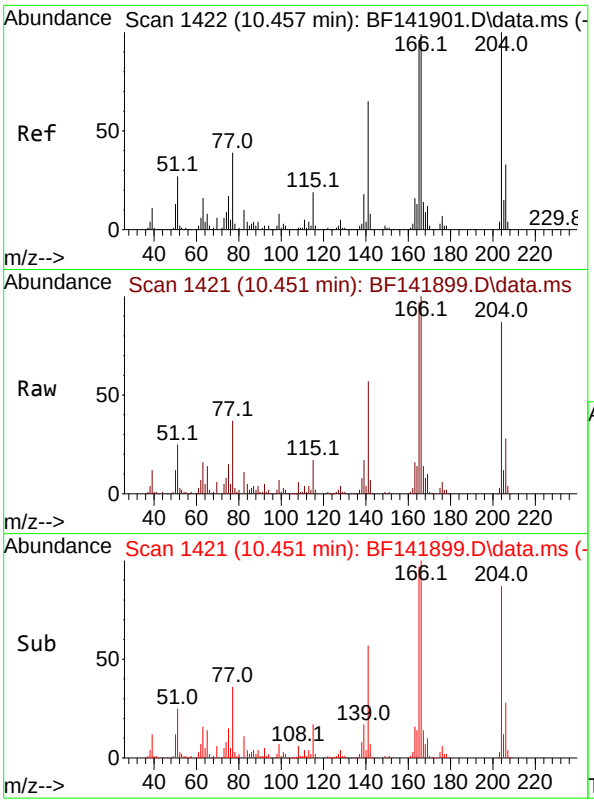


#60
Diethylphthalate
Concen: 10.542 ng
RT: 10.328 min Scan# 1400
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:149 Resp: 398003

Ion	Ratio	Lower	Upper
149	100		
177	22.2	18.0	27.0
150	12.7	10.2	15.4



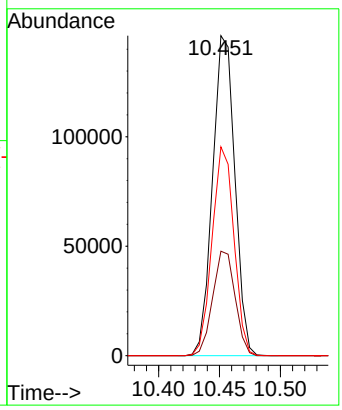


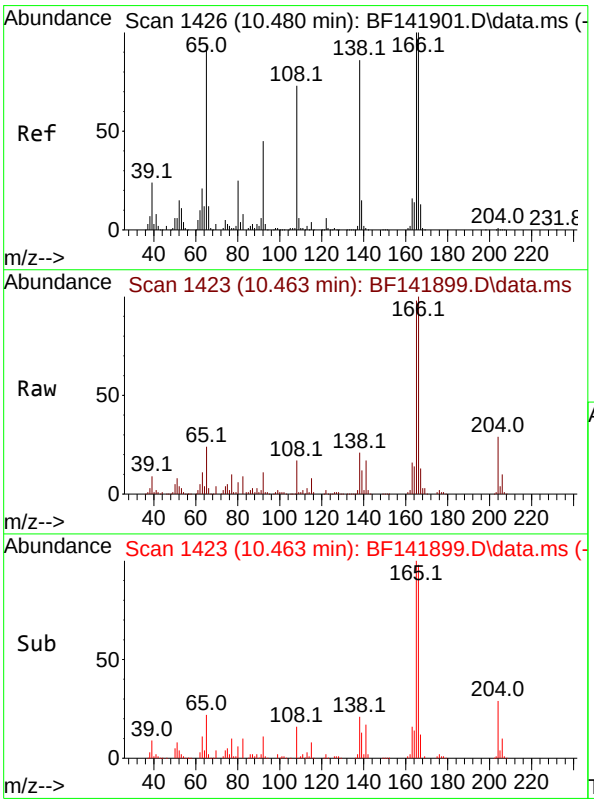
#61
4-Chlorophenyl-phenylether
Concen: 10.145 ng
RT: 10.451 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 186237

Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.8	40.2
141	65.3	52.4	78.6

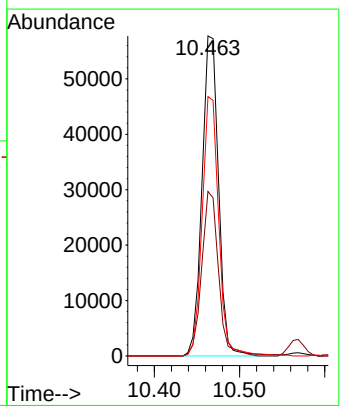


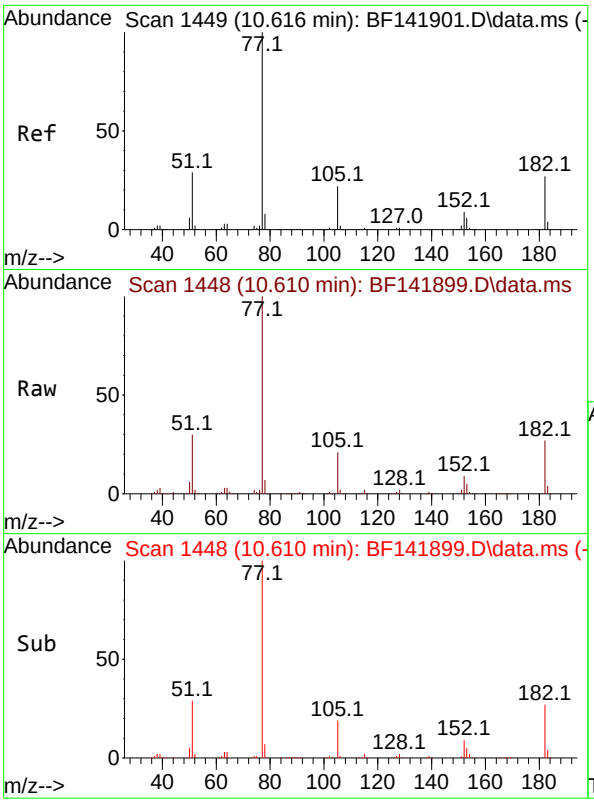


#62
4-Nitroaniline
Concen: 10.030 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.017 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:138 Resp: 78048

Ion	Ratio	Lower	Upper
138	100		
92	51.4	32.6	72.6
108	81.1	65.0	105.0



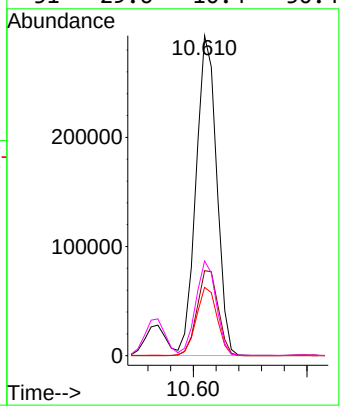


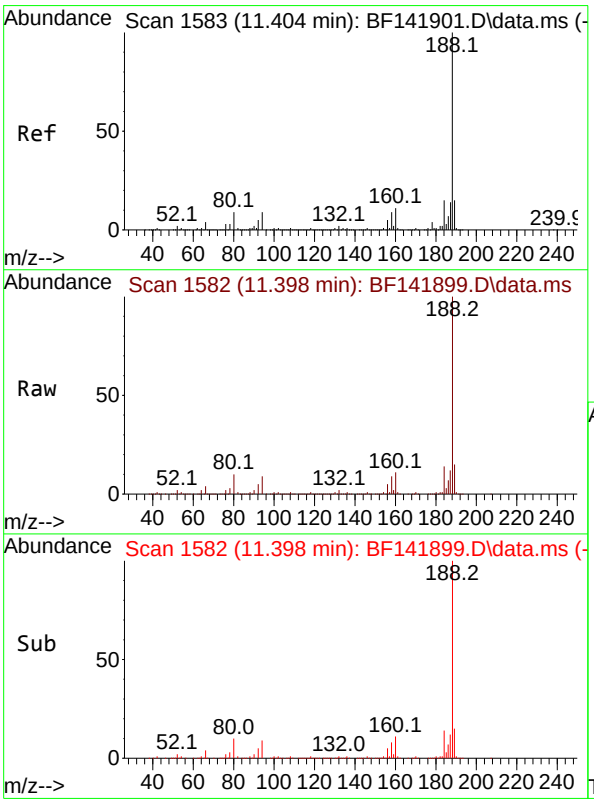
#63
Azobenzene
Concen: 10.521 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 368982

Ion	Ratio	Lower	Upper
77	100		
182	26.6	6.6	46.6
105	21.3	1.3	41.3
51	29.6	10.4	50.4

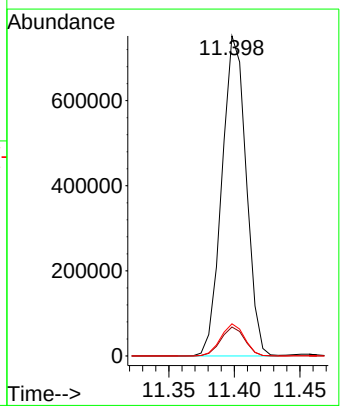


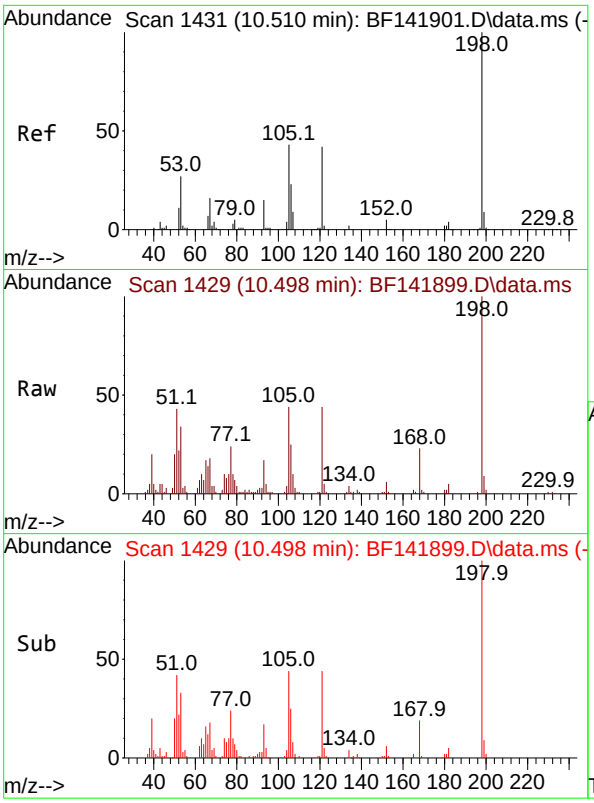


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:188 Resp: 966771

Ion	Ratio	Lower	Upper
188	100		
94	9.1	6.8	10.2
80	10.0	7.6	11.4



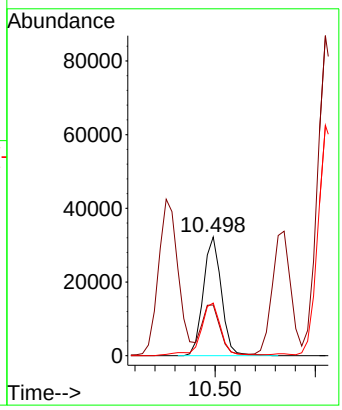


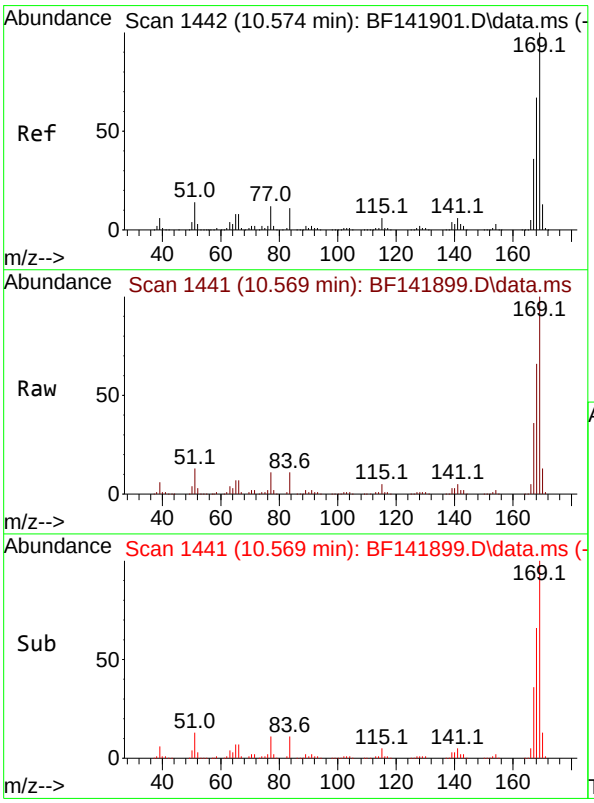
#65
4,6-Dinitro-2-methylphenol
Concen: 7.040 ng
RT: 10.498 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 40348

Ion	Ratio	Lower	Upper
198	100		
51	42.7	22.3	62.3
105	44.3	23.0	63.0

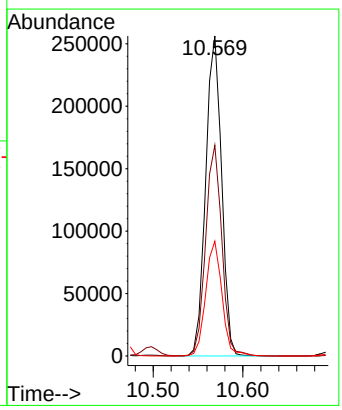


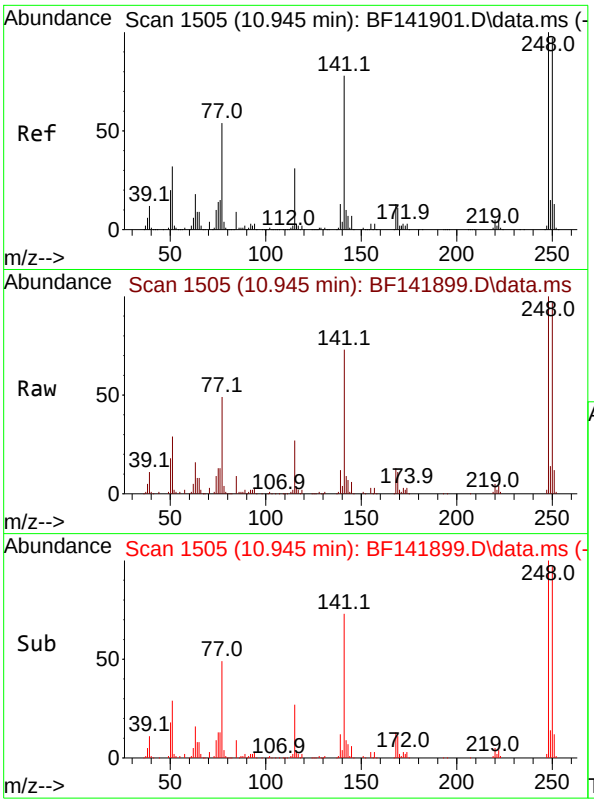


#66
n-Nitrosodiphenylamine
Concen: 10.078 ng
RT: 10.569 min Scan# 1441
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:169 Resp: 314758

Ion	Ratio	Lower	Upper
169	100		
168	65.8	53.7	80.5
167	35.8	29.2	43.8



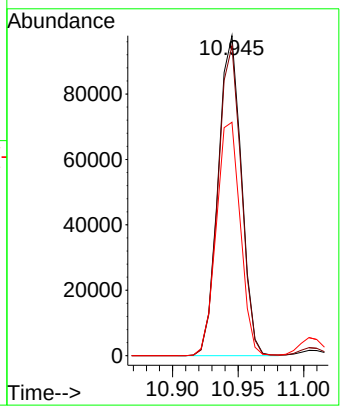


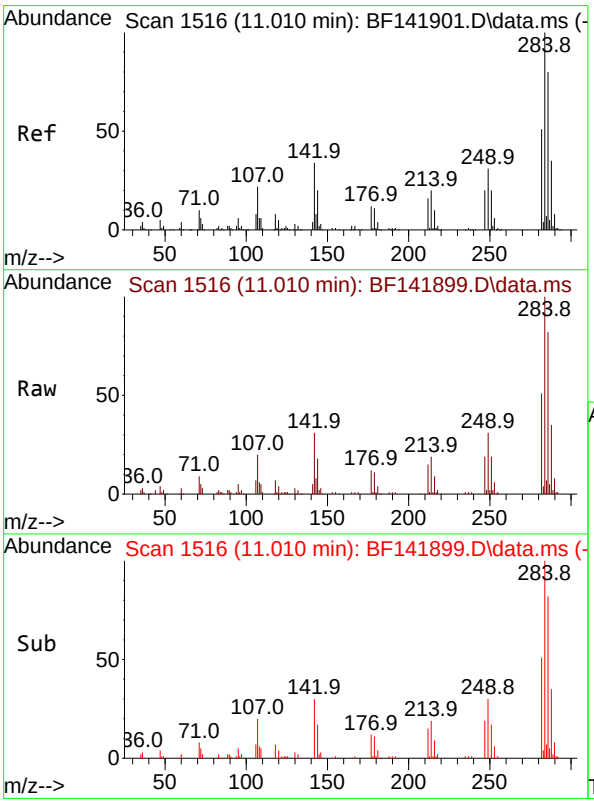
#67
4-Bromophenyl-phenylether
Concen: 10.011 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 120534

Ion	Ratio	Lower	Upper
248	100		
250	96.8	77.8	116.8
141	72.9	62.6	93.8

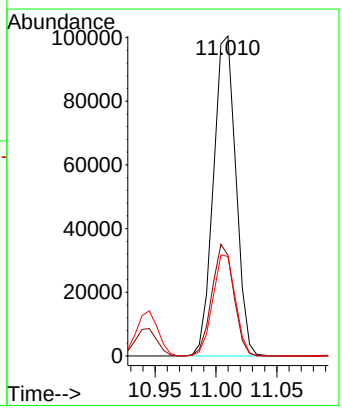


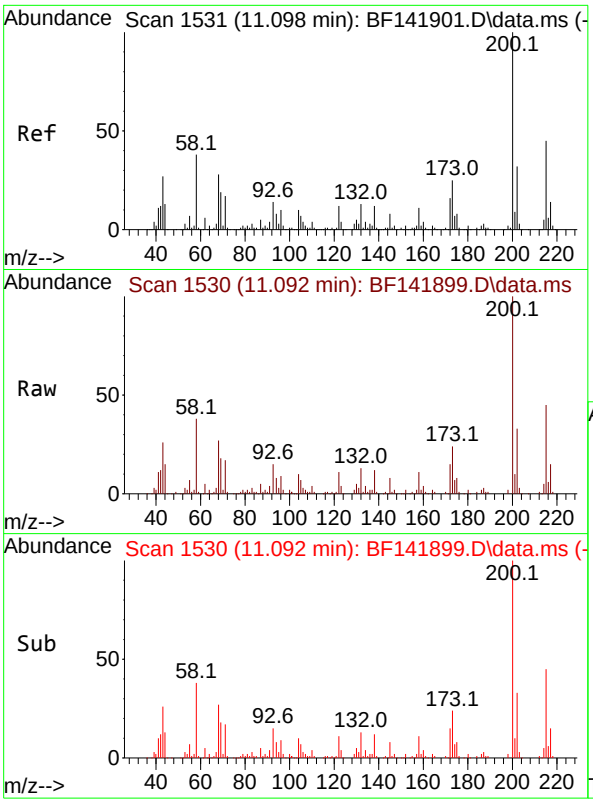


#68
Hexachlorobenzene
Concen: 9.712 ng
RT: 11.010 min Scan# 1516
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:284 Resp: 129242

Ion	Ratio	Lower	Upper
284	100		
142	31.4	27.0	40.6
249	31.1	25.2	37.8



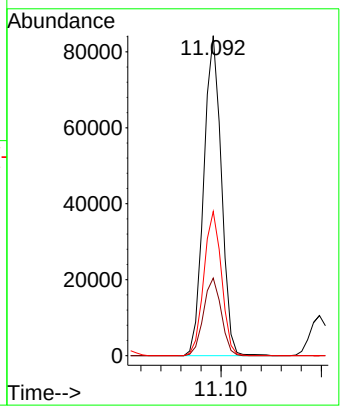


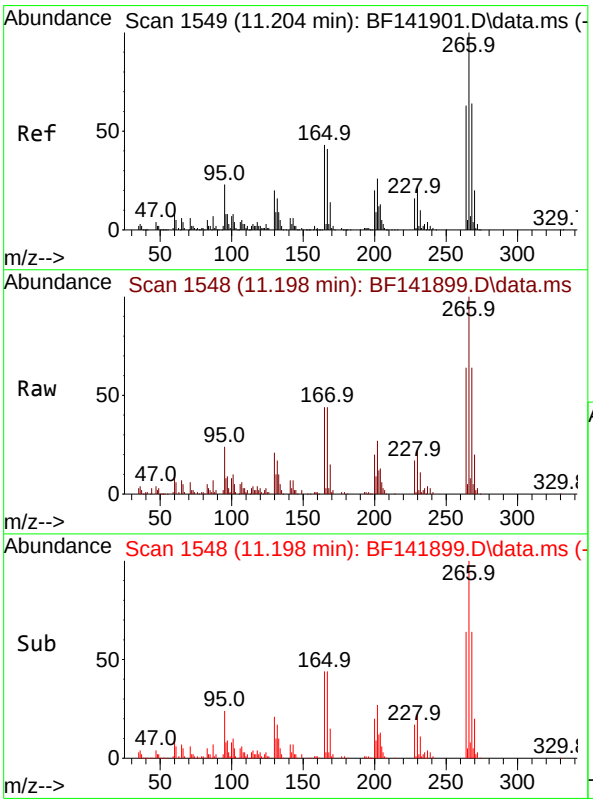
#69
Atrazine
Concen: 13.502 ng
RT: 11.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 102822

Ion	Ratio	Lower	Upper
200	100		
173	24.3	4.7	44.7
215	45.0	25.4	65.4

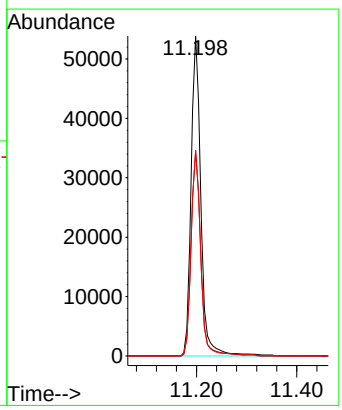


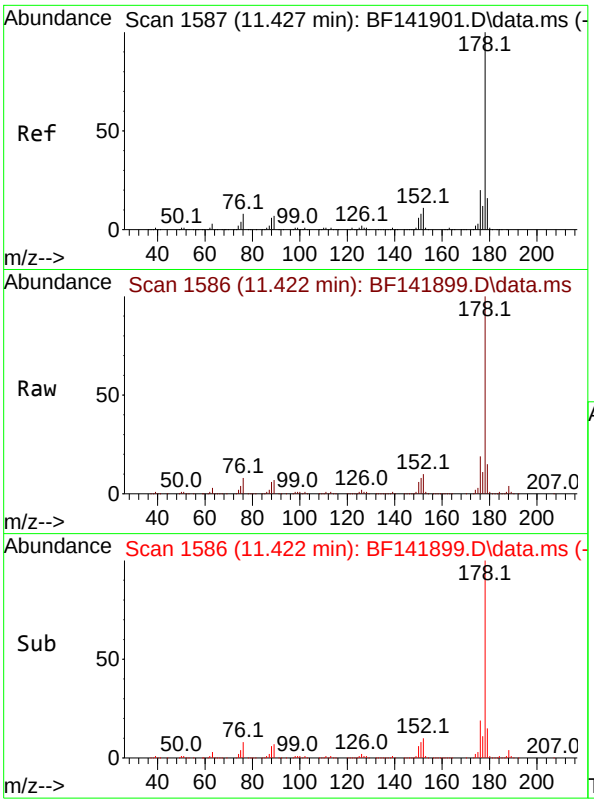


#70
Pentachlorophenol
Concen: 8.909 ng
RT: 11.198 min Scan# 1548
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:266 Resp: 73112

Ion	Ratio	Lower	Upper
266	100		
268	64.0	51.0	76.6
264	64.3	50.2	75.2



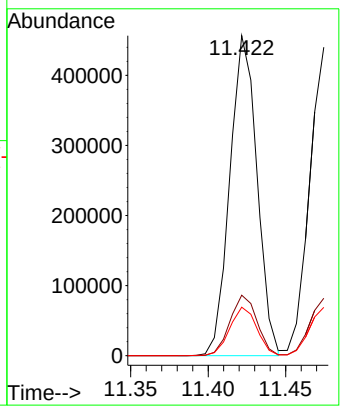


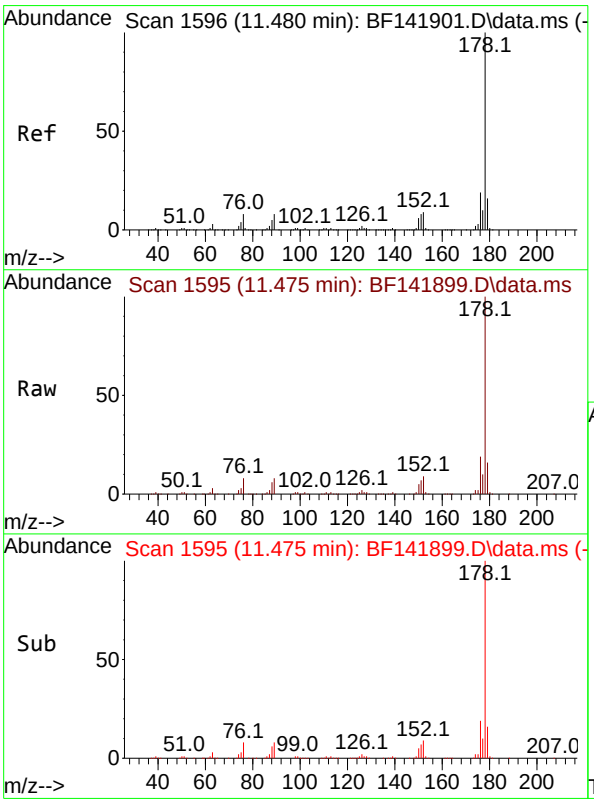
#71
Phenanthrene
Concen: 10.646 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 556546

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.8
179	15.2	12.6	19.0

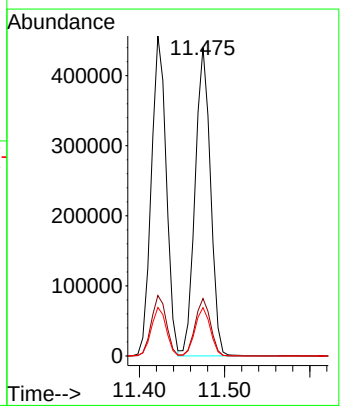


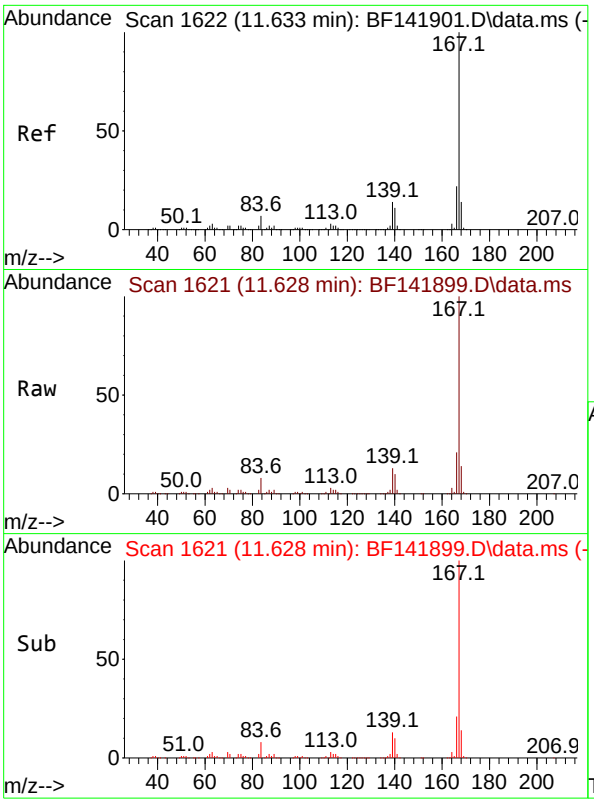


#72
Anthracene
Concen: 10.501 ng
RT: 11.475 min Scan# 1595
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:178 Resp: 550767

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.1	22.7
179	15.7	12.6	19.0



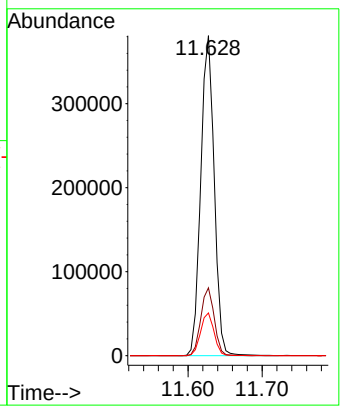


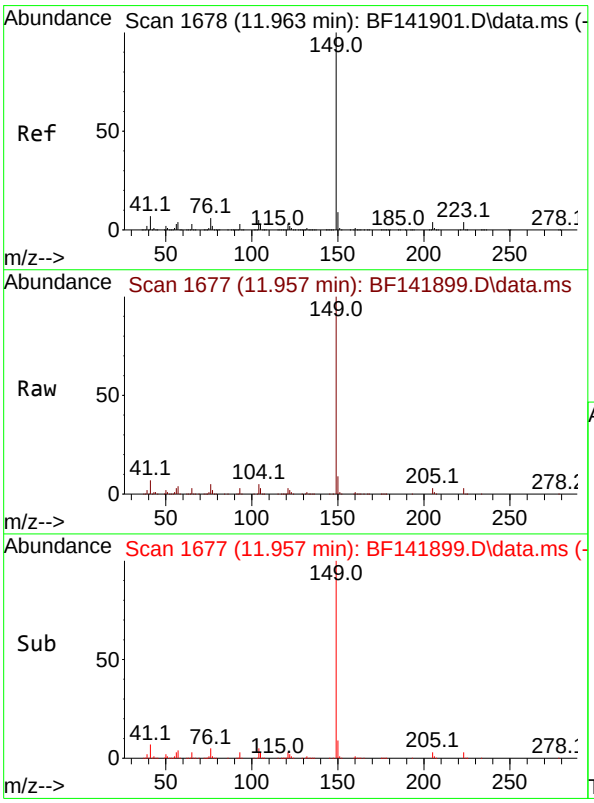
#73
Carbazole
Concen: 10.641 ng
RT: 11.628 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 480520

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.4	26.2
139	13.3	11.0	16.6

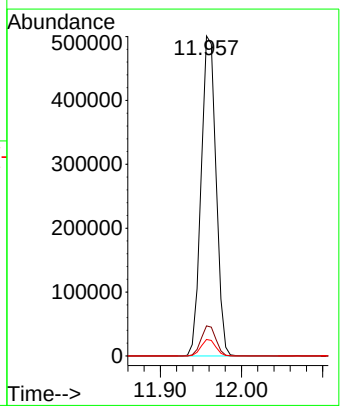


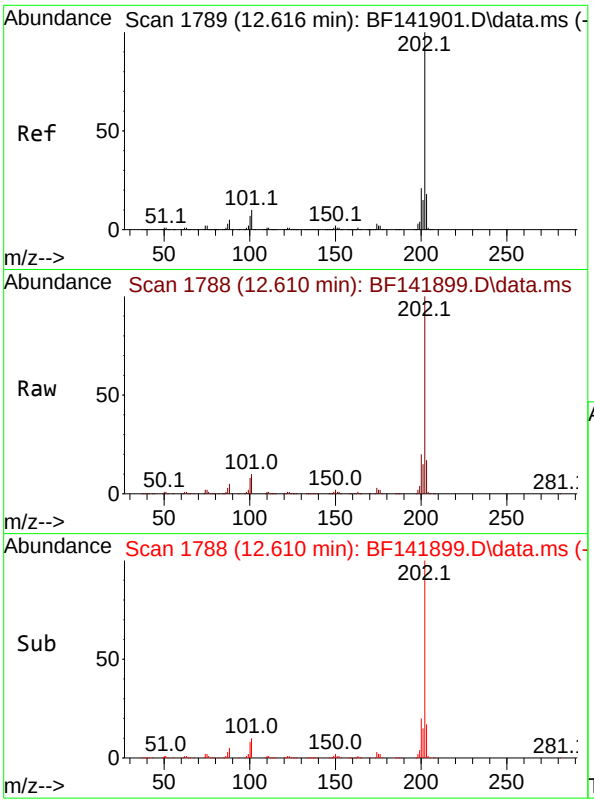


#74
Di-n-butylphthalate
Concen: 10.708 ng
RT: 11.957 min Scan# 1677
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:149 Resp: 638429

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.6	11.4
104	5.2	4.4	6.6



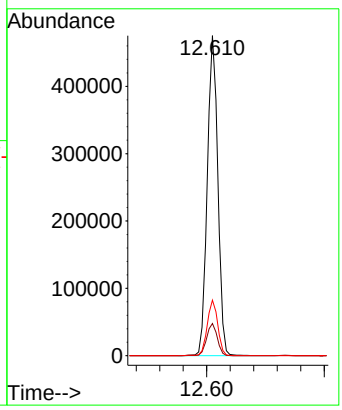


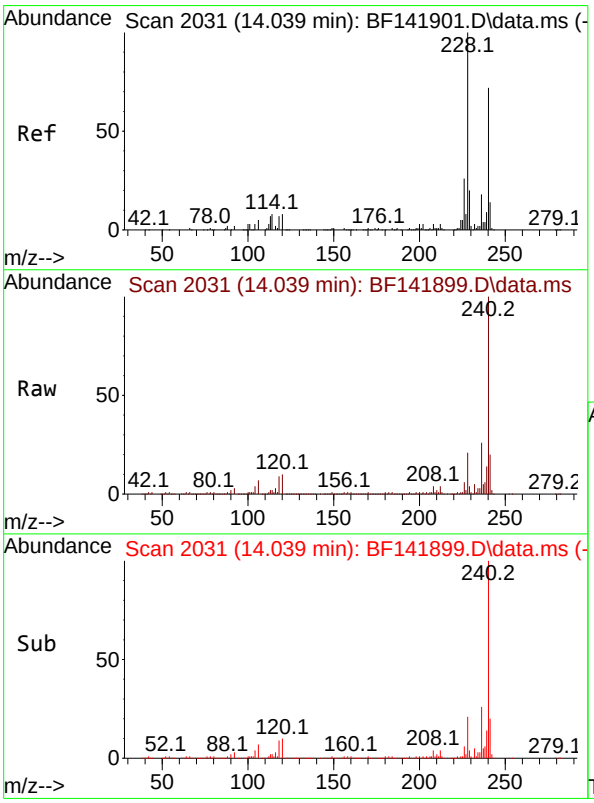
#75
Fluoranthene
Concen: 10.801 ng
RT: 12.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 592806

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	29.7
203	17.4	0.0	37.8

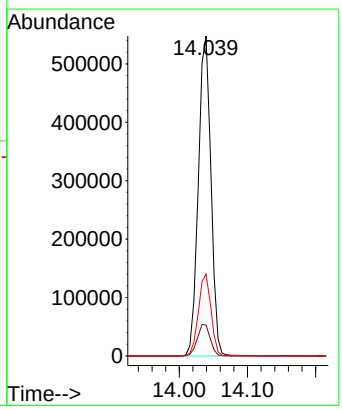


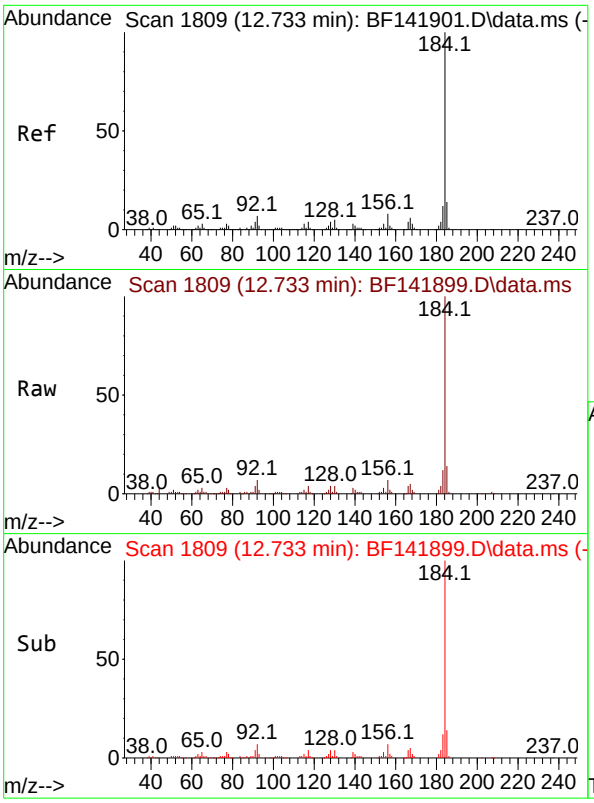


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:240 Resp: 703100

Ion	Ratio	Lower	Upper
240	100		
120	9.7	8.4	12.6
236	25.5	20.5	30.7



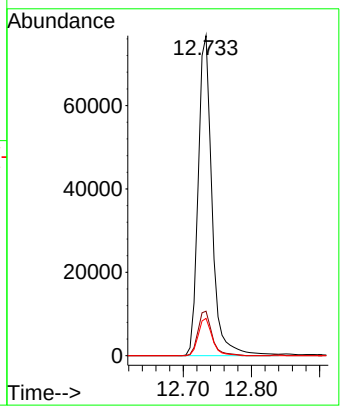


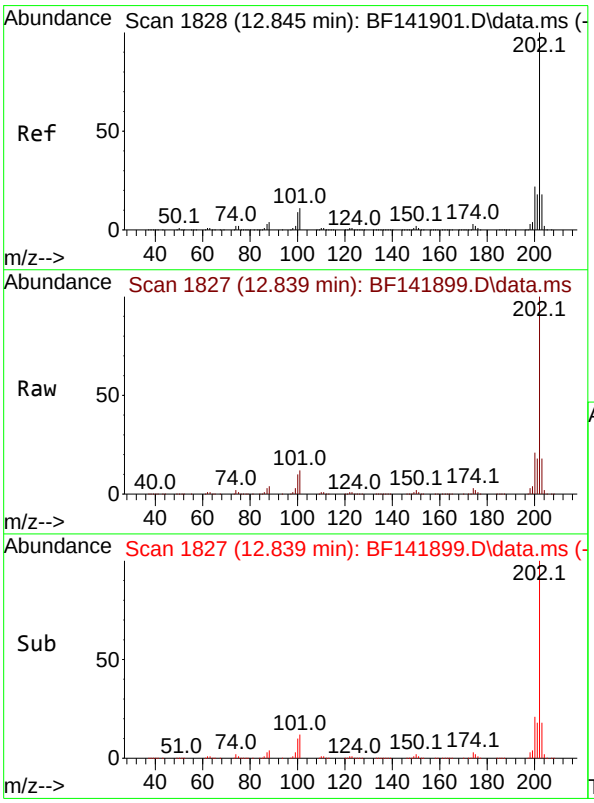
#77
Benzidine
Concen: 10.946 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 108761

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.5	17.3
183	11.6	9.7	14.5

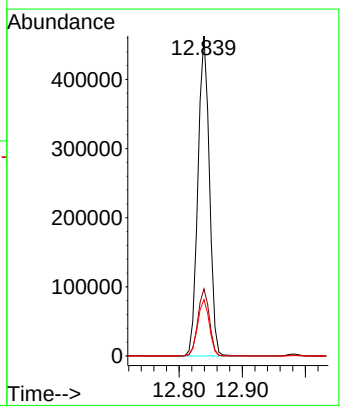


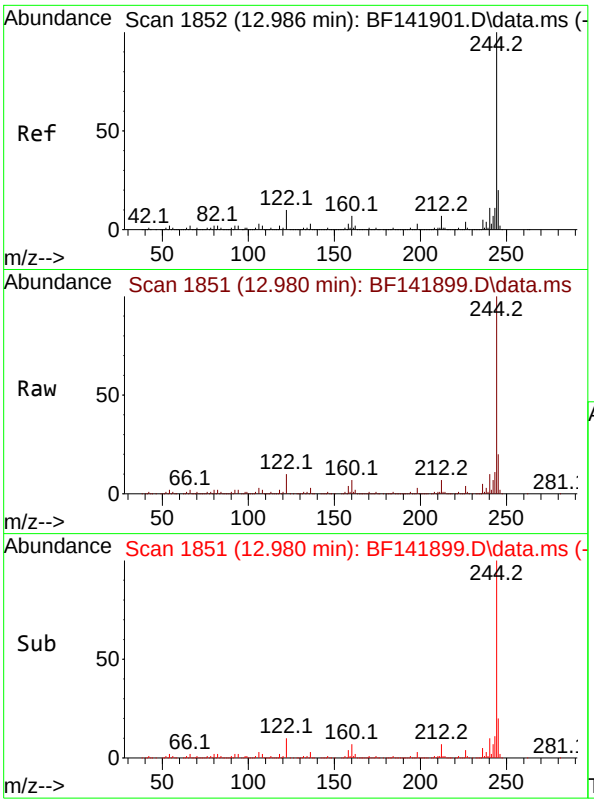


#78
Pyrene
Concen: 9.626 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:202 Resp: 580442

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.3	25.9
203	17.6	14.4	21.6



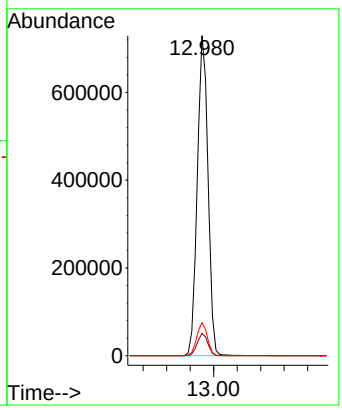


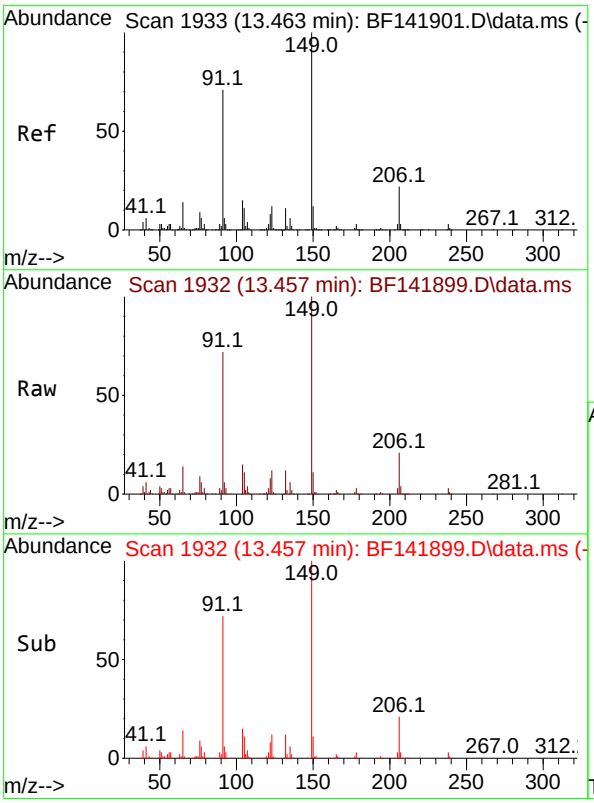
#79
Terphenyl-d14
Concen: 19.345 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 920159

Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	10.3	7.7	11.5

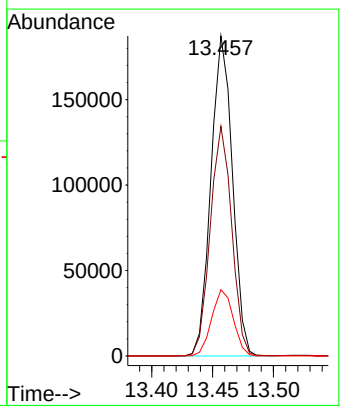


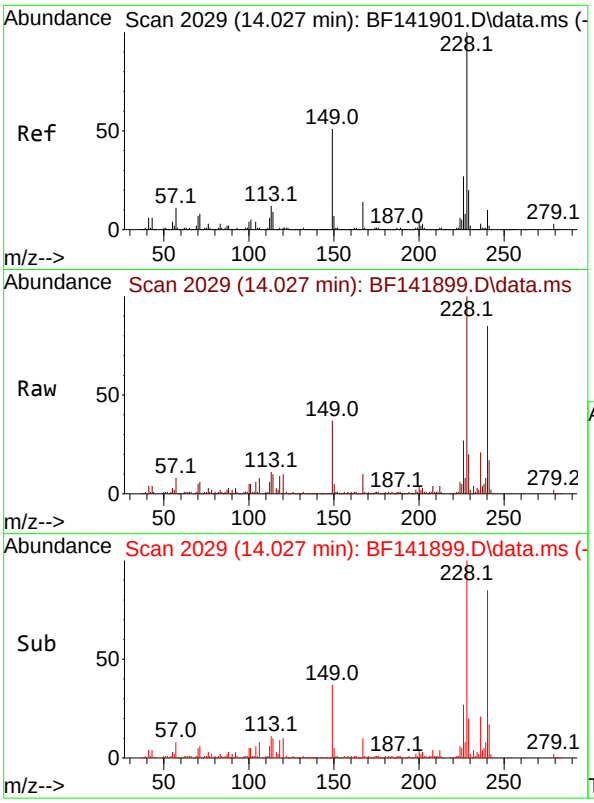


#80
Butylbenzylphthalate
Concen: 9.710 ng
RT: 13.457 min Scan# 1932
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:149 Resp: 230714

Ion	Ratio	Lower	Upper
149	100		
91	71.8	56.5	84.7
206	20.7	17.3	25.9



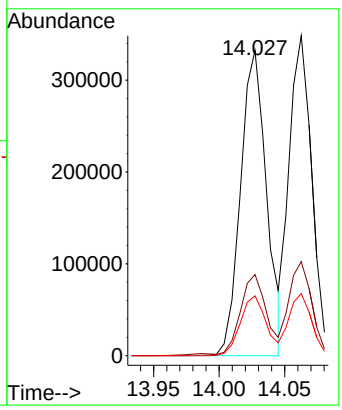


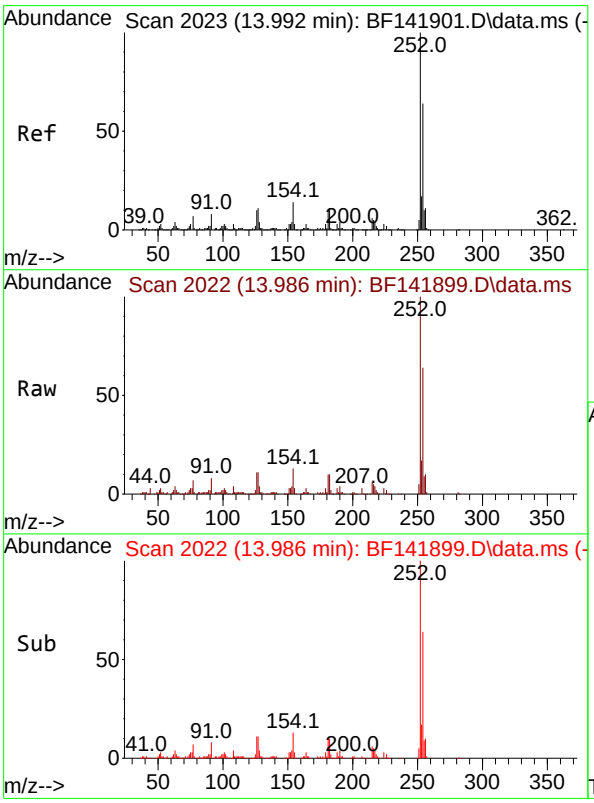
#81
Benzo(a)anthracene
Concen: 9.911 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 458422

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.8	32.8
229	19.6	16.0	24.0

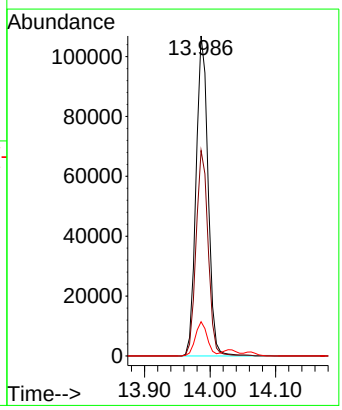


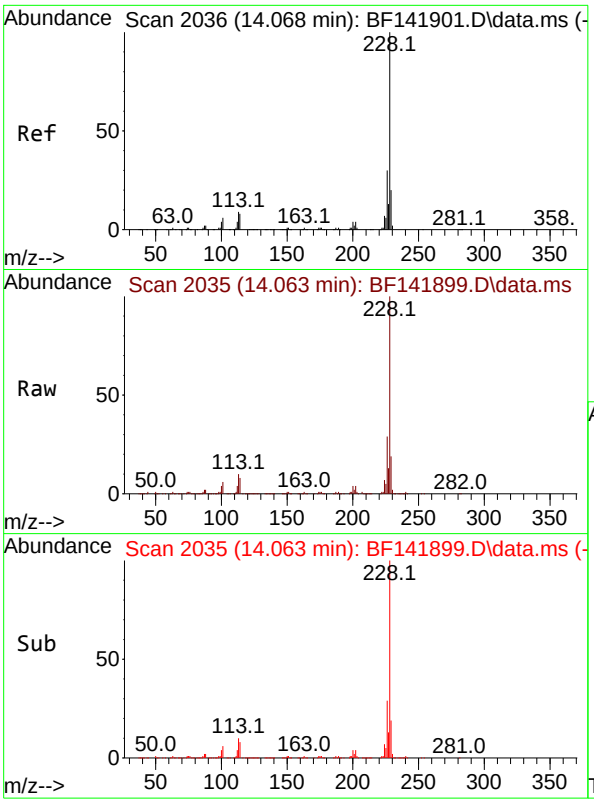


#82
3,3'-Dichlorobenzidine
Concen: 10.236 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:252 Resp: 136843

Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.0	76.6
126	10.7	8.4	12.6



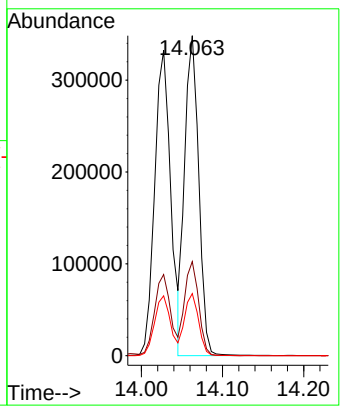


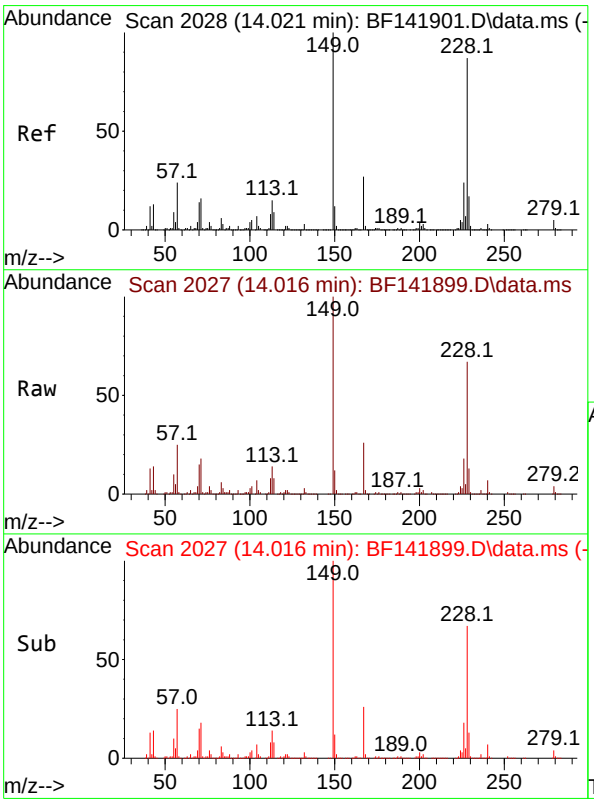
#83
Chrysene
Concen: 10.100 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 419687

Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.1	36.1
229	19.4	15.7	23.5

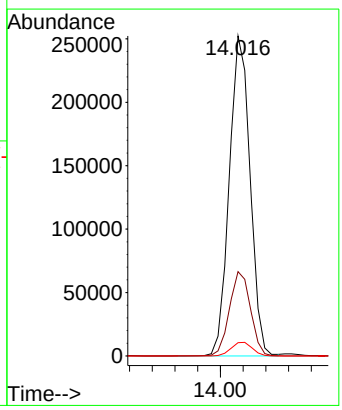


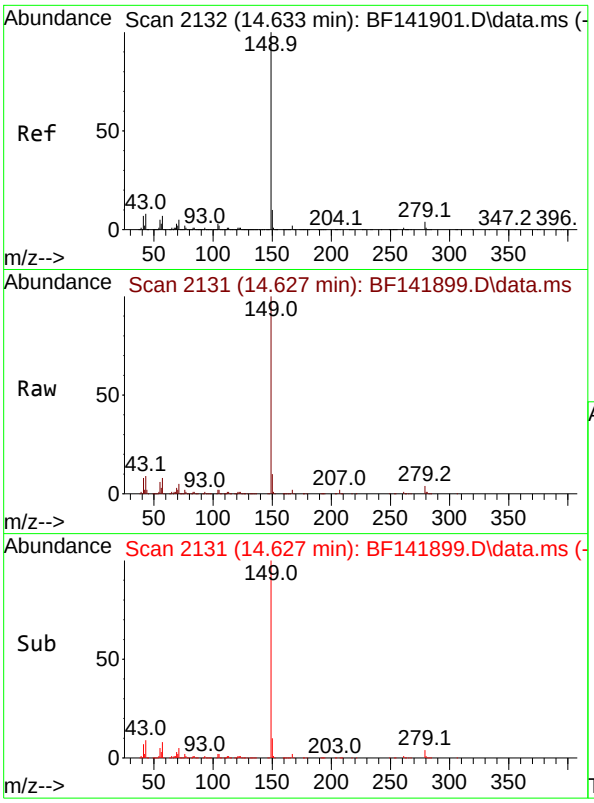


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.833 ng
RT: 14.016 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:149 Resp: 320536

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.4	32.0
279	4.1	3.8	5.6



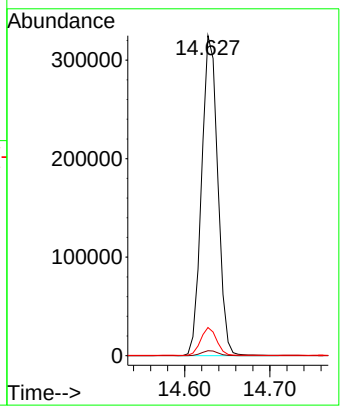


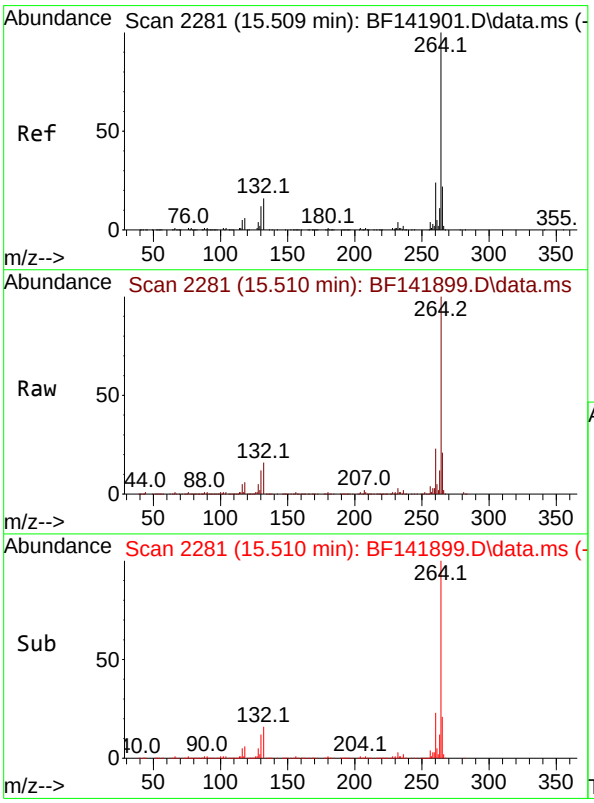
#85
Di-n-octyl phthalate
Concen: 9.442 ng
RT: 14.627 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 428377

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.6	6.9	10.3

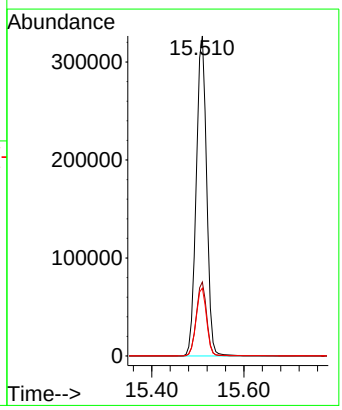


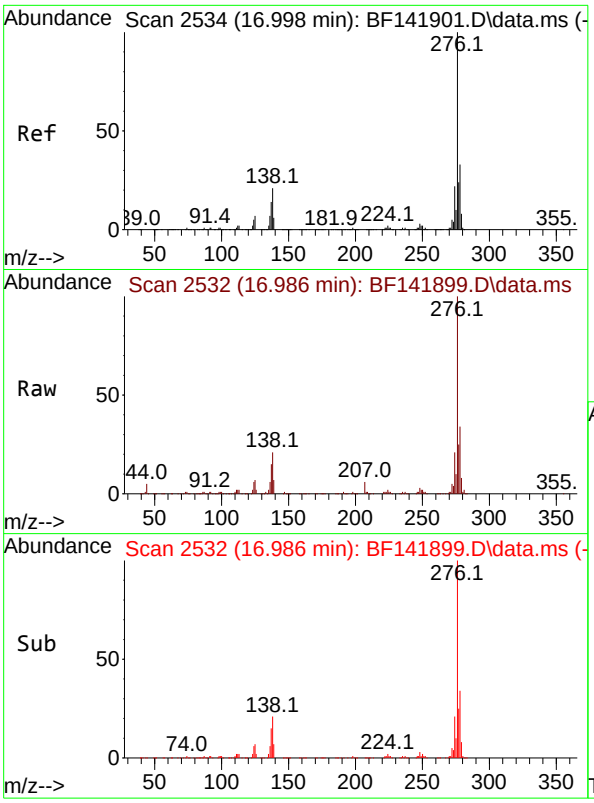


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. 0.000 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:264 Resp: 510790

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.1	28.7
265	21.2	17.5	26.3



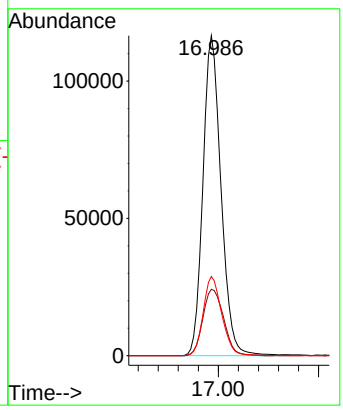


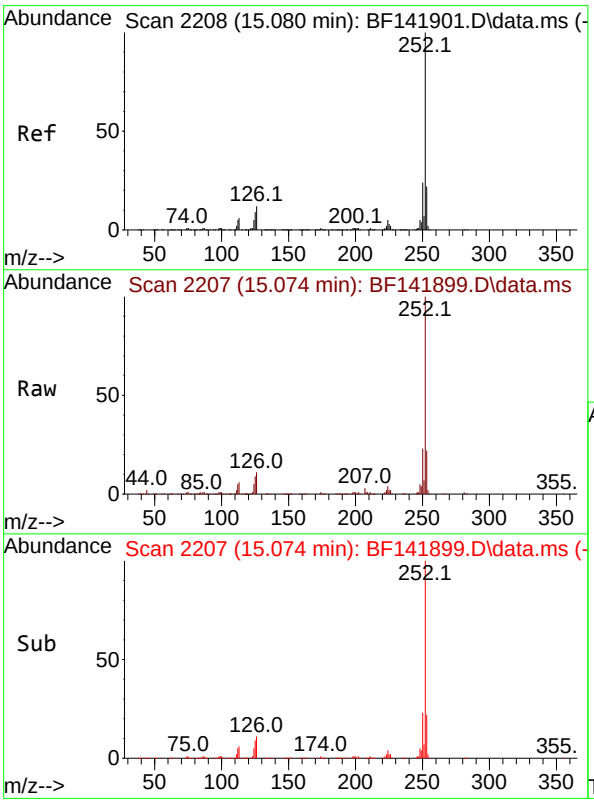
#87
Indeno(1,2,3-cd)pyrene
Concen: 8.807 ng
RT: 16.986 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 291723

Ion	Ratio	Lower	Upper
276	100		
138	23.8	18.4	27.6
277	25.3	20.3	30.5

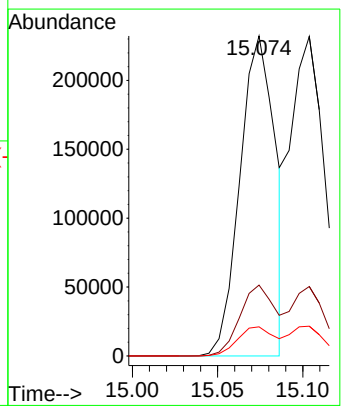


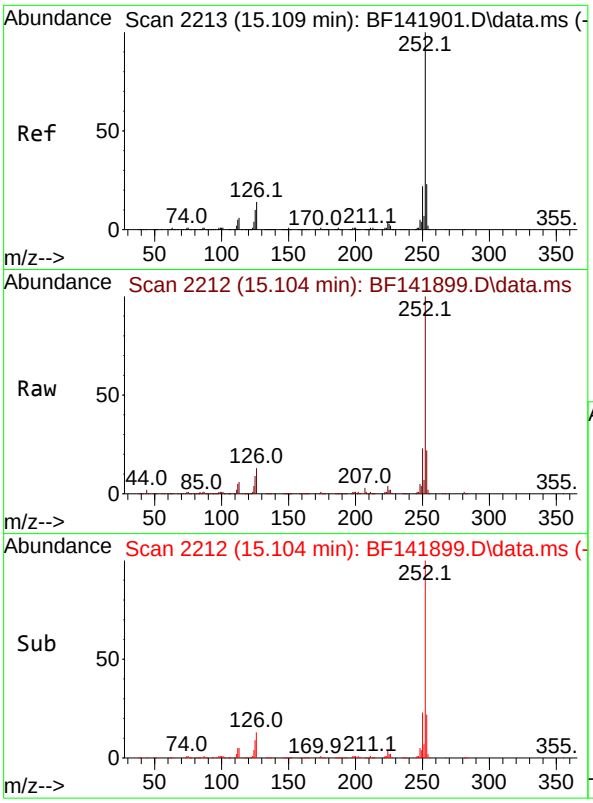


#88
Benzo(b)fluoranthene
Concen: 9.659 ng
RT: 15.074 min Scan# 2207
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:252 Resp: 334664

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.1	7.0	10.4



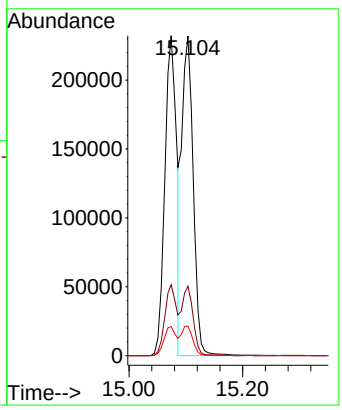


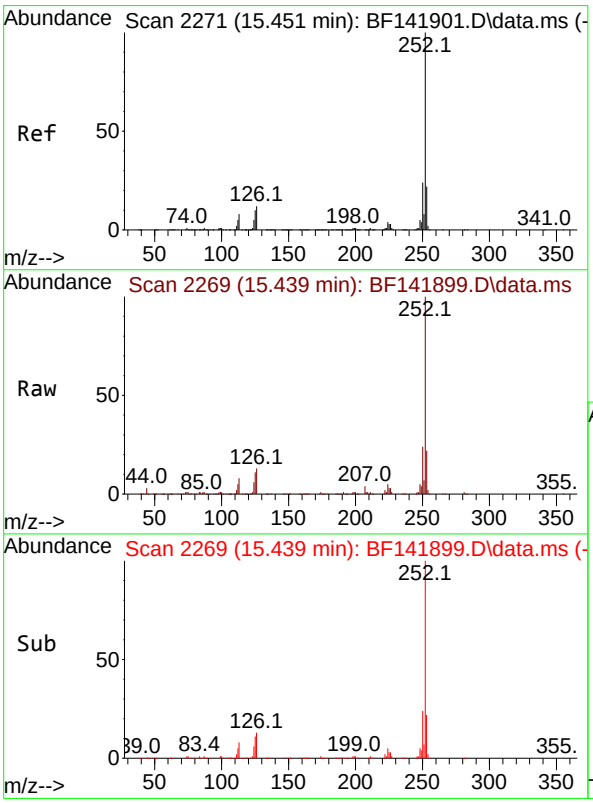
#89
Benzo(k)fluoranthene
Concen: 10.698 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 323772

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	9.3	7.2	10.8

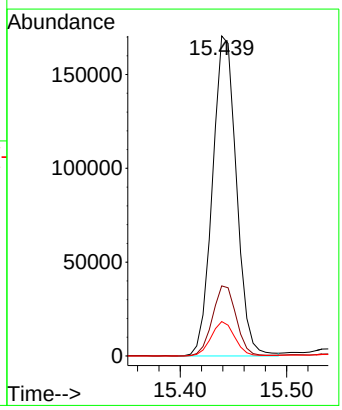


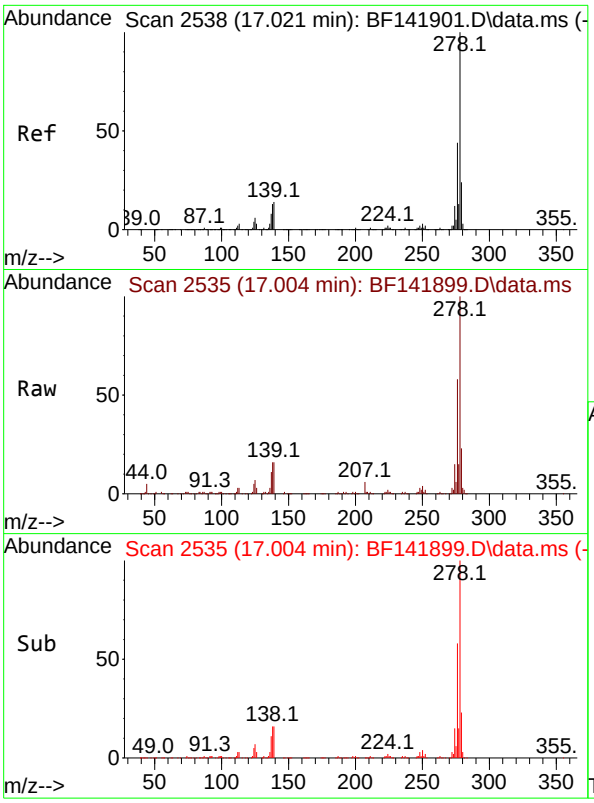


#90
Benzo(a)pyrene
Concen: 9.740 ng
RT: 15.439 min Scan# 2269
Delta R.T. -0.012 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:252 Resp: 266149

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	10.7	7.8	11.8



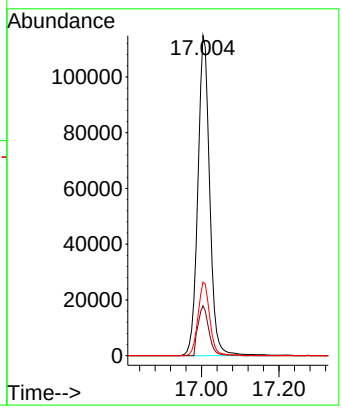


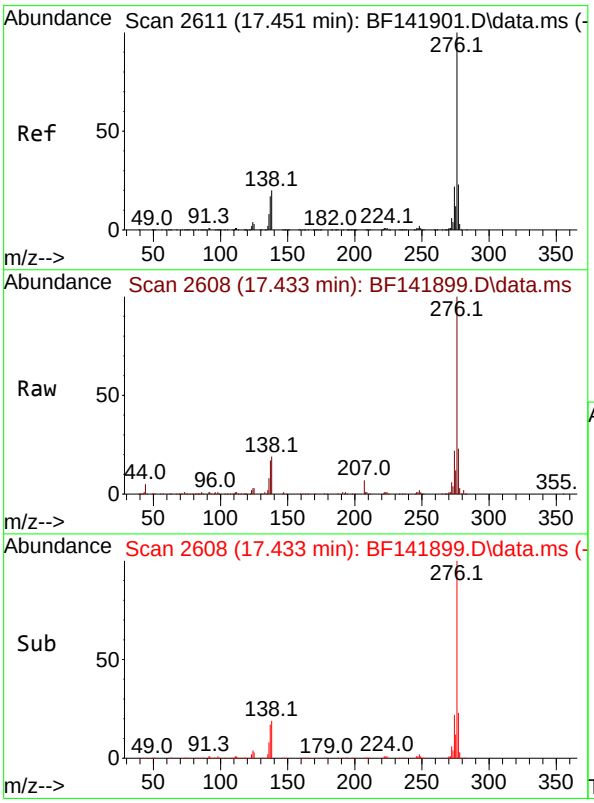
#91
Dibenzo(a,h)anthracene
Concen: 8.907 ng
RT: 17.004 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 243443

Ion	Ratio	Lower	Upper
278	100		
139	15.5	11.4	17.2
279	23.0	18.8	28.2

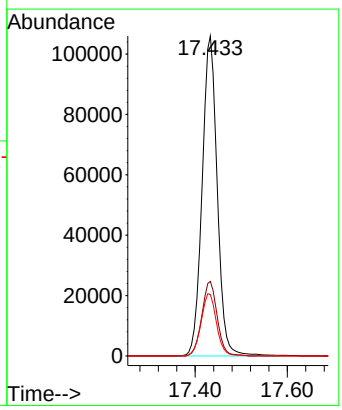




#92
Benzo(g,h,i)perylene
Concen: 8.941 ng
RT: 17.433 min Scan# 2608
Delta R.T. -0.018 min
Lab File: BF141899.D
Acq: 10 Mar 2025 12:00

Tgt Ion:276 Resp: 242380

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.7	28.1
138	19.2	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141900.D
Acq On : 10 Mar 2025 12:29
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Mar 10 15:34:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	198053	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	797548	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	470833	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	826085	20.000	ng	0.00
76) Chrysene-d12	14.039	240	581591	20.000	ng	0.00
86) Perylene-d12	15.509	264	428960	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	514189	43.318	ng	0.00
7) Phenol-d6	6.498	99	651272	43.079	ng	0.00
23) Nitrobenzene-d5	7.439	82	604270	42.465	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	243832	40.869	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1298709	42.002	ng	0.00
79) Terphenyl-d14	12.986	244	1582373	40.218	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	106079	21.323	ng	99
3) Pyridine	3.434	79	264229	21.612	ng	100
4) n-Nitrosodimethylamine	3.375	42	122948	21.155	ng	99
6) Aniline	6.539	93	324802	21.763	ng	99
8) 2-Chlorophenol	6.663	128	284082	21.592	ng	99
9) Benzaldehyde	6.428	77	193024	22.843	ng	98
10) Phenol	6.510	94	346008	21.692	ng	97
11) bis(2-Chloroethyl)ether	6.610	93	253793	21.236	ng	98
12) 1,3-Dichlorobenzene	6.822	146	304632	21.426	ng	98
13) 1,4-Dichlorobenzene	6.898	146	306665	21.319	ng	100
14) 1,2-Dichlorobenzene	7.051	146	289199	21.349	ng	99
15) Benzyl Alcohol	7.016	79	261893	21.402	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	303847	21.095	ng	99
17) 2-Methylphenol	7.122	107	222173	21.248	ng	97
18) Hexachloroethane	7.392	117	114019	21.141	ng	99
19) n-Nitroso-di-n-propyla...	7.286	70	206654	21.268	ng	97
20) 3+4-Methylphenols	7.275	107	291065	21.702	ng	99
22) Acetophenone	7.286	105	409149	21.385	ng	99
24) Nitrobenzene	7.457	77	299046	21.196	ng	99
25) Isophorone	7.698	82	522239	20.788	ng	100
26) 2-Nitrophenol	7.775	139	144979	20.970	ng	99
27) 2,4-Dimethylphenol	7.804	122	200058	21.009	ng	100
28) bis(2-Chloroethoxy)met...	7.904	93	331966	21.093	ng	99
29) 2,4-Dichlorophenol	8.010	162	246810	20.884	ng	100
30) 1,2,4-Trichlorobenzene	8.098	180	272773	20.922	ng	97
31) Naphthalene	8.181	128	877897	21.487	ng	99
32) Benzoic acid	7.892	122	152420	18.313	ng	99
33) 4-Chloroaniline	8.228	127	313249	21.726	ng	98
34) Hexachlorobutadiene	8.298	225	176253	20.791	ng	99
35) Caprolactam	8.580	113	75048	20.884	ng	99
36) 4-Chloro-3-methylphenol	8.698	107	278207	21.168	ng	100
37) 2-Methylnaphthalene	8.875	142	584552	21.324	ng	99
38) 1-Methylnaphthalene	8.975	142	575428	21.677	ng	99
40) 1,2,4,5-Tetrachloroben...	9.039	216	294845	20.538	ng	99
41) Hexachlorocyclopentadiene	9.028	237	117174	20.685	ng	100
43) 2,4,6-Trichlorophenol	9.145	196	189069	20.203	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141900.D
Acq On : 10 Mar 2025 12:29
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Mar 10 15:34:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

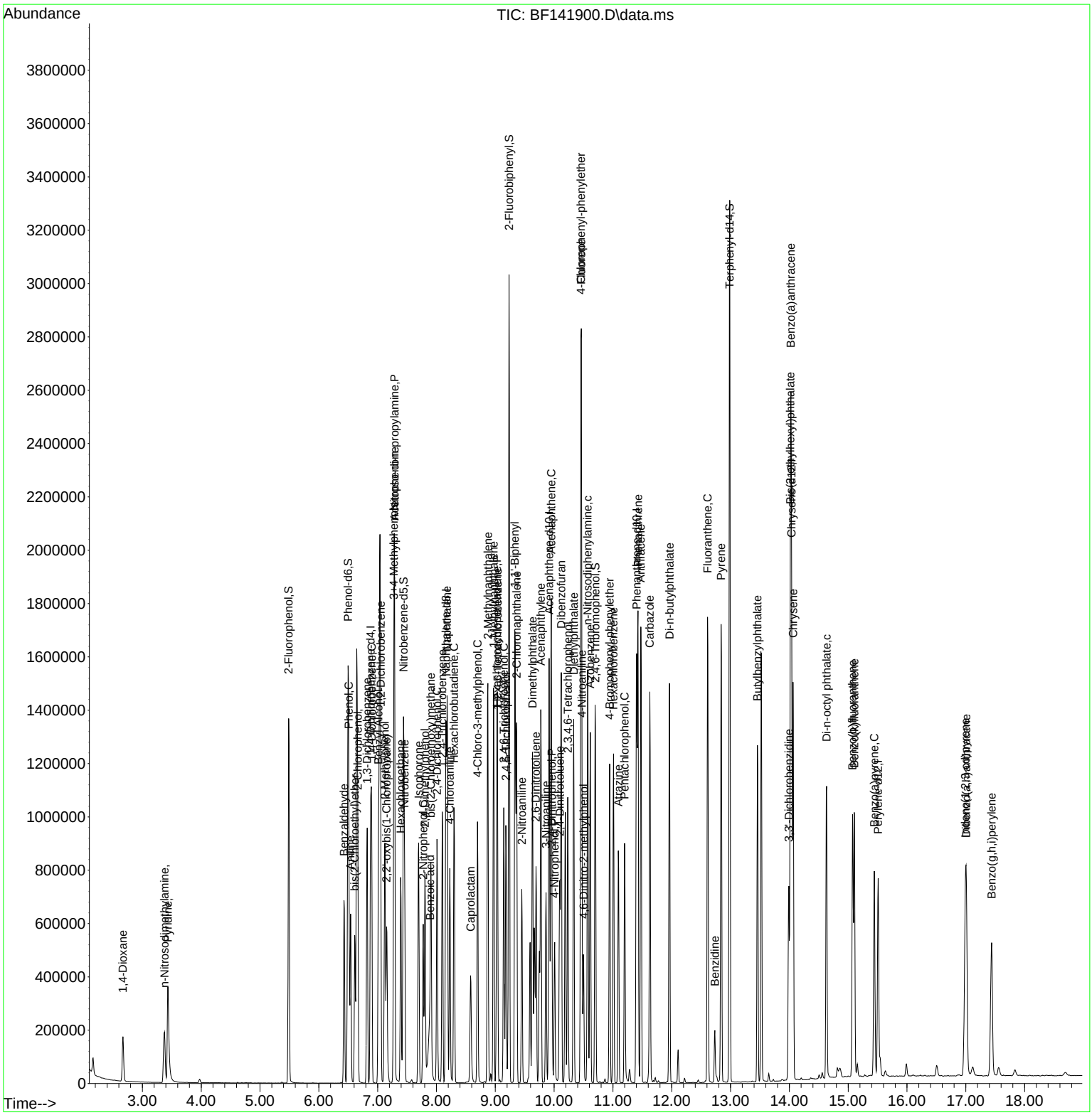
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.180	196	198841	20.912	ng		99
46) 1,1'-Biphenyl	9.333	154	749087	20.985	ng		100
47) 2-Chloronaphthalene	9.363	162	555946	20.898	ng		98
48) 2-Nitroaniline	9.451	65	162790	21.302	ng		97
49) Acenaphthylene	9.775	152	837016	21.222	ng		99
50) Dimethylphthalate	9.633	163	691454	21.137	ng		100
51) 2,6-Dinitrotoluene	9.692	165	143513	21.096	ng		100
52) Acenaphthene	9.951	154	579623	20.813	ng		98
53) 3-Nitroaniline	9.863	138	148977	21.327	ng		98
54) 2,4-Dinitrophenol	9.963	184	58223	20.368	ng	#	33
55) Dibenzofuran	10.122	168	843359	21.238	ng		98
56) 4-Nitrophenol	10.010	139	109958	20.955	ng		100
57) 2,4-Dinitrotoluene	10.098	165	189234	21.132	ng		98
58) Fluorene	10.463	166	650245	21.211	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	183513	21.272	ng		99
60) Diethylphthalate	10.333	149	704993	21.468	ng		100
61) 4-Chlorophenyl-phenyle...	10.457	204	330489	20.698	ng		99
62) 4-Nitroaniline	10.474	138	142995	21.125	ng		99
63) Azobenzene	10.616	77	660935	21.665	ng		99
65) 4,6-Dinitro-2-methylph...	10.504	198	91852	18.755	ng		98
66) n-Nitrosodiphenylamine	10.569	169	553905	20.756	ng		99
67) 4-Bromophenyl-phenylether	10.945	248	210241	20.436	ng		100
68) Hexachlorobenzene	11.010	284	234399	20.613	ng		99
69) Atrazine	11.092	200	159306	24.481	ng		99
70) Pentachlorophenol	11.198	266	141842	20.227	ng		100
71) Phenanthrene	11.427	178	939782	21.038	ng		99
72) Anthracene	11.474	178	940875	20.993	ng		99
73) Carbazole	11.627	167	813998	21.096	ng		100
74) Di-n-butylphthalate	11.963	149	1089304	21.382	ng		99
75) Fluoranthene	12.610	202	1014464	21.632	ng		100
77) Benzidine	12.733	184	110648	13.463	ng		99
78) Pyrene	12.839	202	1004157	20.133	ng		99
80) Butylbenzylphthalate	13.457	149	408044	20.761	ng		98
81) Benzo(a)anthracene	14.027	228	776120	20.285	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	221168	19.999	ng		99
83) Chrysene	14.062	228	732966	21.325	ng		100
84) Bis(2-ethylhexyl)phtha...	14.015	149	562062	20.845	ng		99
85) Di-n-octyl phthalate	14.633	149	778373	20.740	ng		100
87) Indeno(1,2,3-cd)pyrene	16.992	276	560913	20.163	ng		99
88) Benzo(b)fluoranthene	15.074	252	636808	21.886	ng		100
89) Benzo(k)fluoranthene	15.104	252	513311	20.196	ng		99
90) Benzo(a)pyrene	15.445	252	481683	20.991	ng		100
91) Dibenzo(a,h)anthracene	17.009	278	460109	20.046	ng		99
92) Benzo(g,h,i)perylene	17.439	276	455034	19.987	ng		99

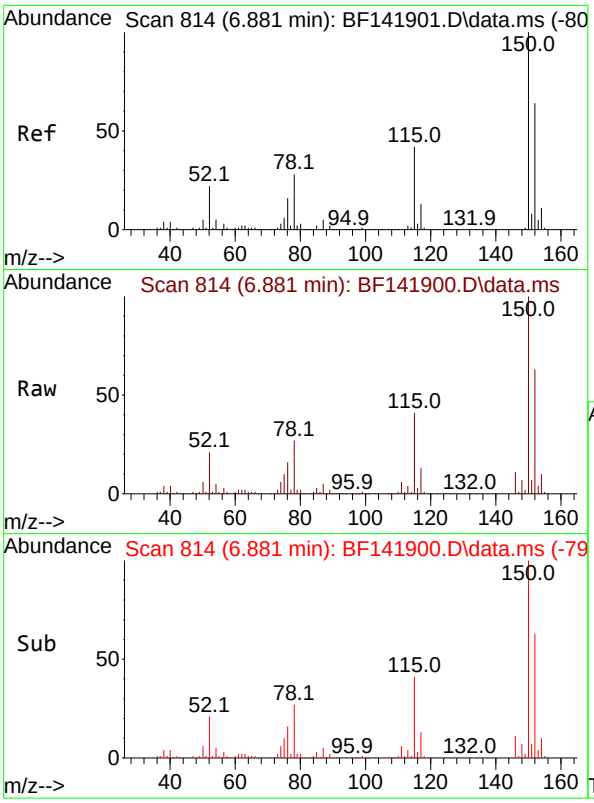
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141900.D
Acq On : 10 Mar 2025 12:29
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Mar 10 15:34:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration



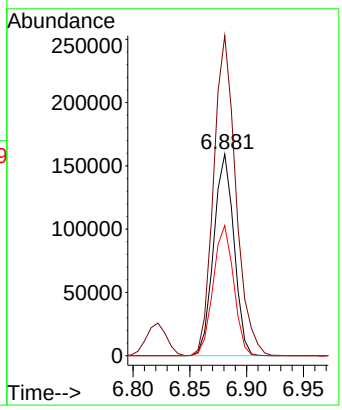


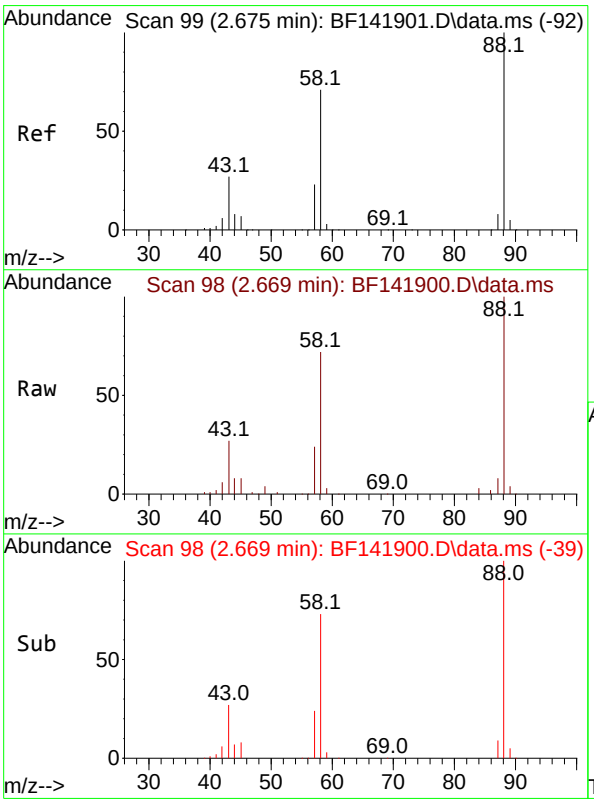
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 198053

Ion	Ratio	Lower	Upper
152	100		
150	158.7	127.4	191.2
115	64.5	51.9	77.9

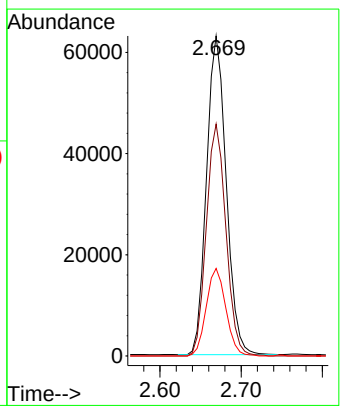


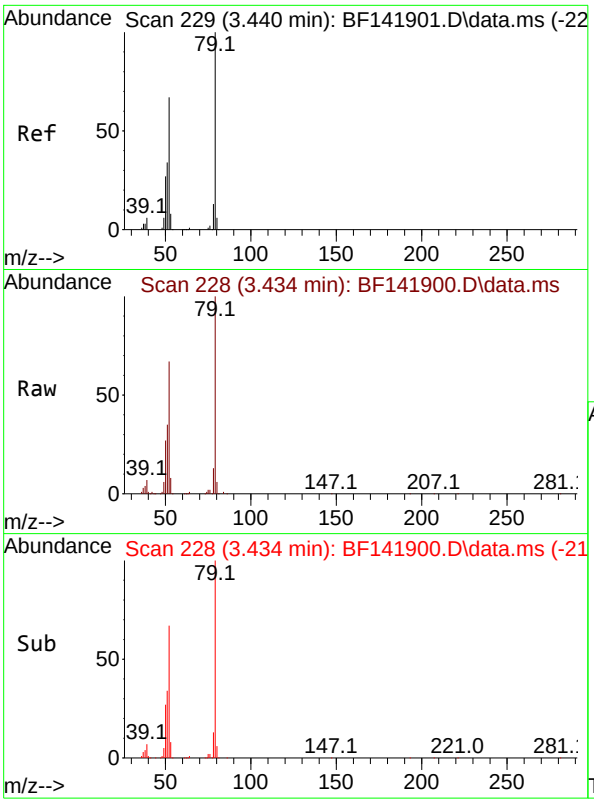


#2
1,4-Dioxane
Concen: 21.323 ng
RT: 2.669 min Scan# 98
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion: 88 Resp: 106079

Ion	Ratio	Lower	Upper
88	100		
58	72.3	57.4	86.2
43	27.4	21.5	32.3



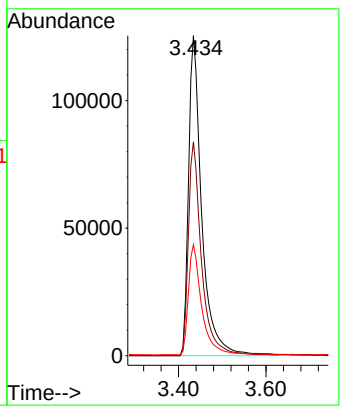


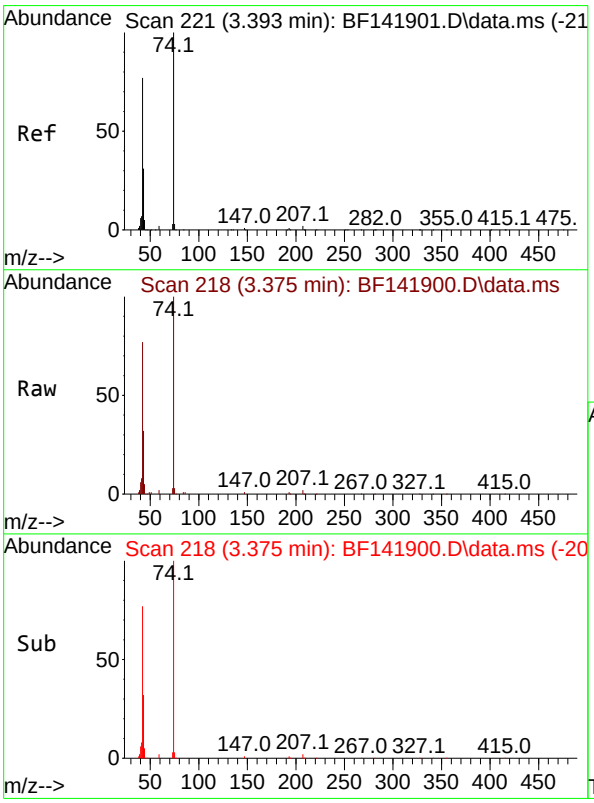
#3
Pyridine
Concen: 21.612 ng
RT: 3.434 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 264229

Ion	Ratio	Lower	Upper
79	100		
52	66.8	53.3	79.9
51	34.7	27.6	41.4

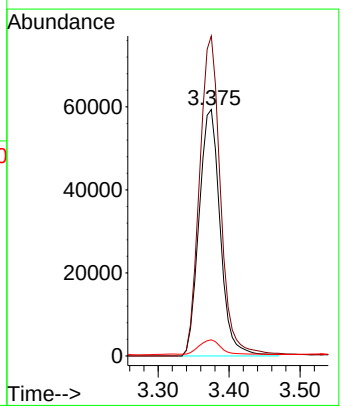


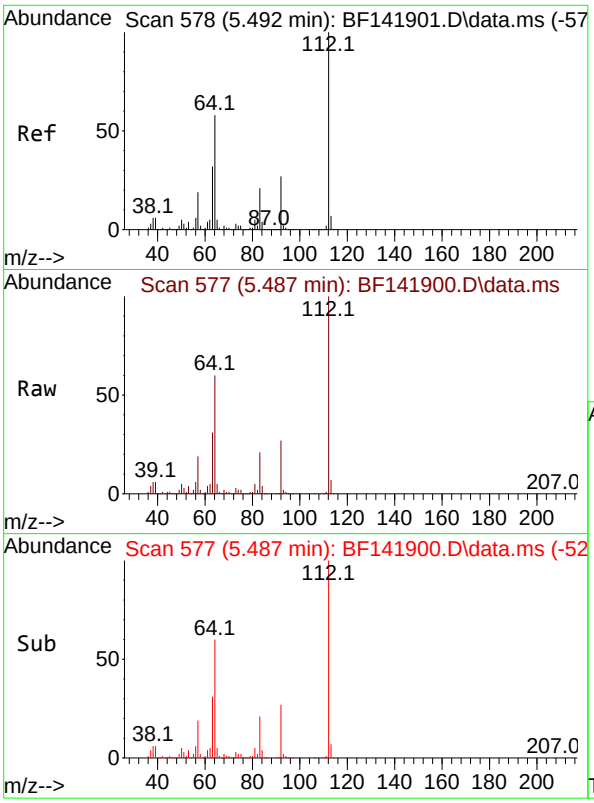


#4
n-Nitrosodimethylamine
Concen: 21.155 ng
RT: 3.375 min Scan# 218
Delta R.T. -0.018 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion: 42 Resp: 122948

Ion	Ratio	Lower	Upper
42	100		
74	129.9	103.4	155.0
44	6.5	5.0	7.4



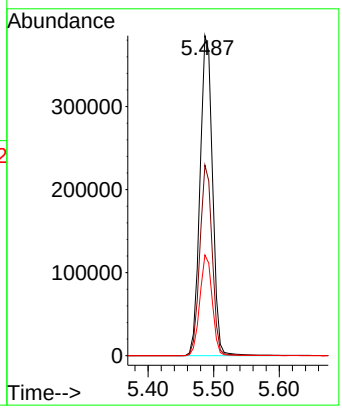


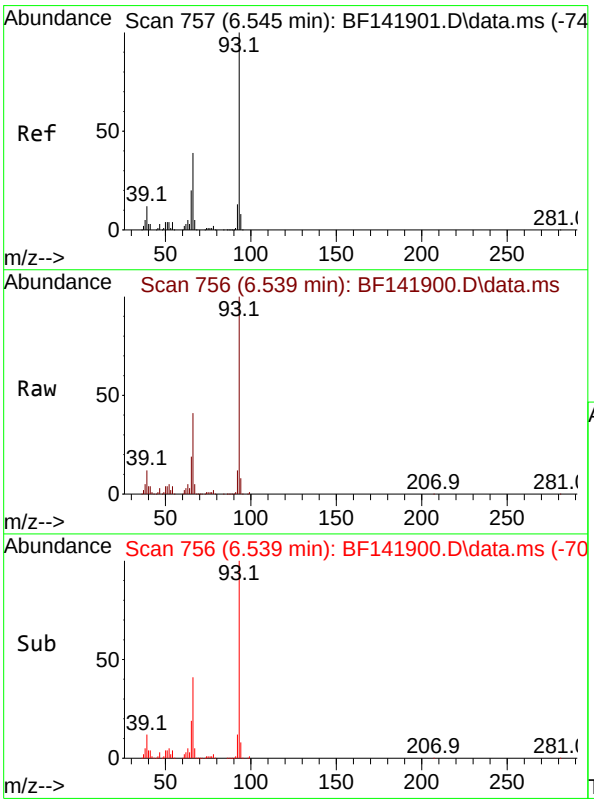
#5
2-Fluorophenol
Concen: 43.318 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 514189

Ion	Ratio	Lower	Upper
112	100		
64	59.5	46.5	69.7
63	31.4	25.4	38.2

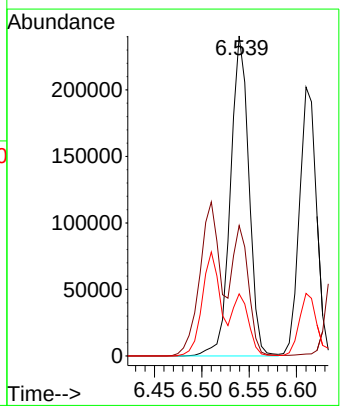


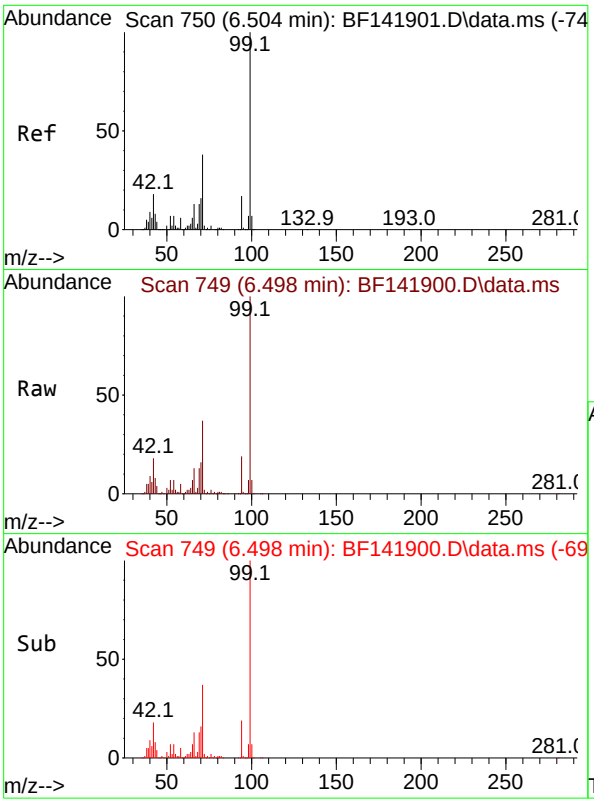


#6
Aniline
Concen: 21.763 ng
RT: 6.539 min Scan# 756
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion: 93 Resp: 324802

Ion	Ratio	Lower	Upper
93	100		
66	40.8	31.9	47.9
65	19.4	15.8	23.6



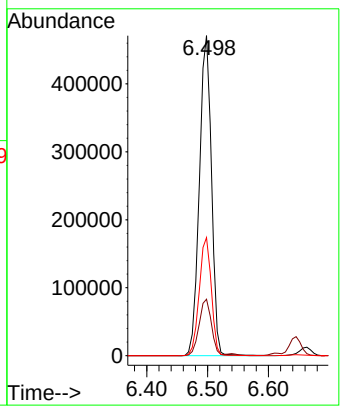


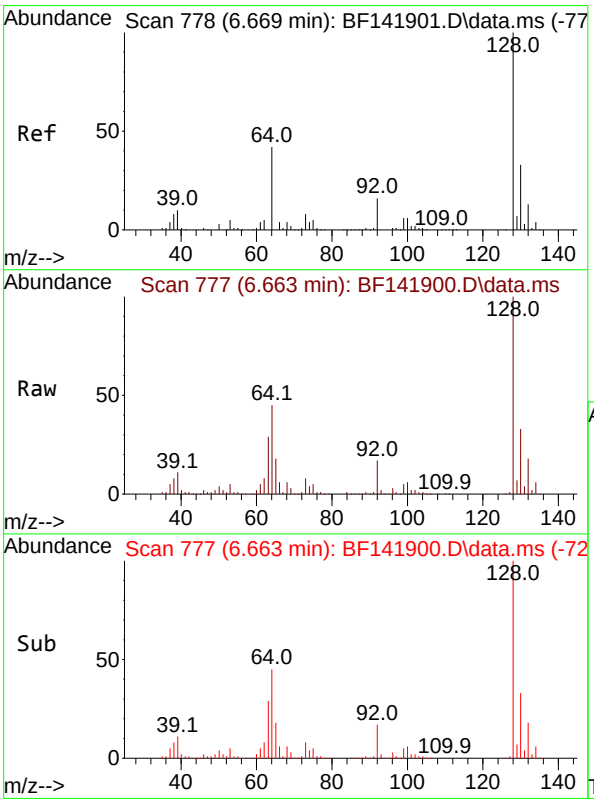
#7
Phenol-d6
Concen: 43.079 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 651272

Ion	Ratio	Lower	Upper
99	100		
42	17.6	14.6	21.8
71	36.9	30.8	46.2

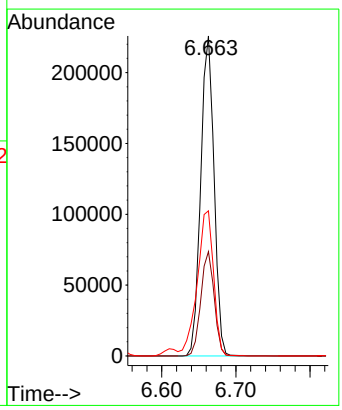


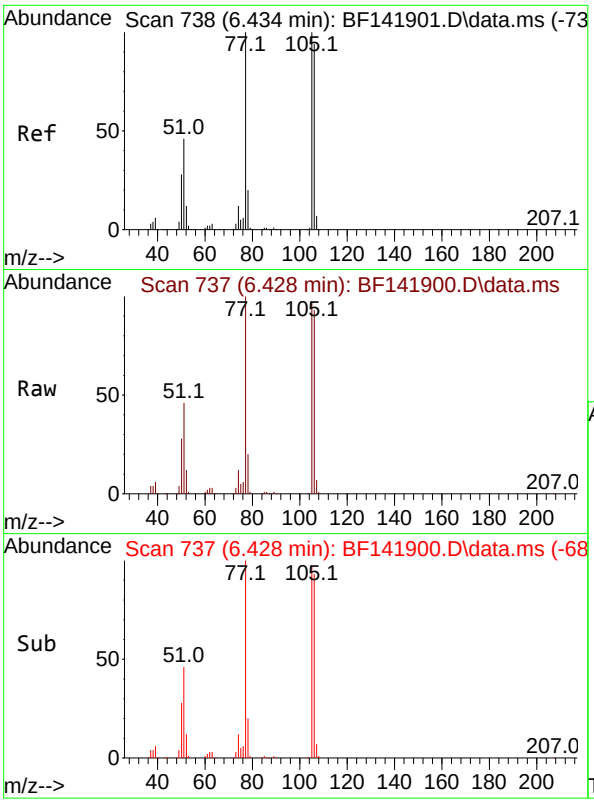


#8
2-Chlorophenol
Concen: 21.592 ng
RT: 6.663 min Scan# 777
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:128 Resp: 284082

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.8	52.8
64	45.4	24.4	64.4



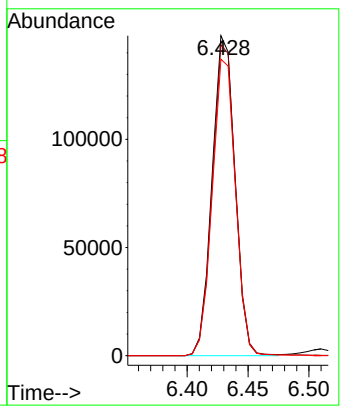


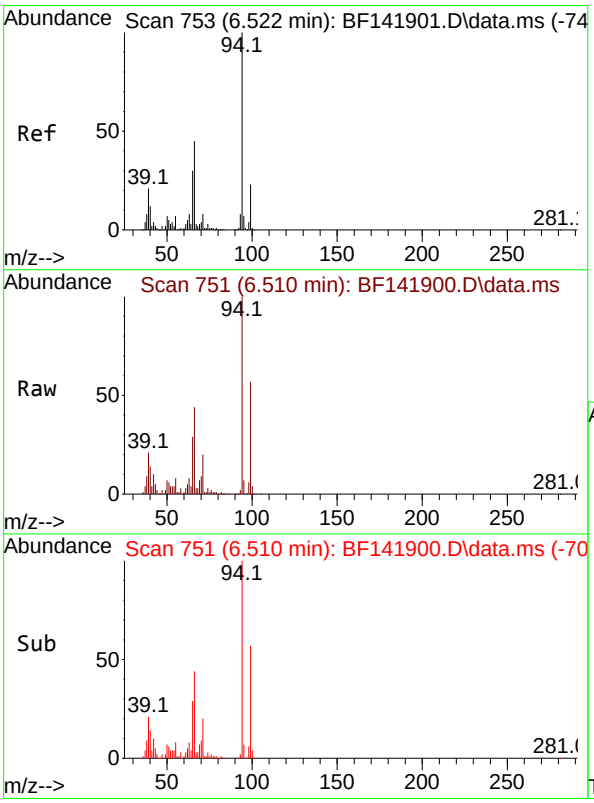
#9
Benzaldehyde
Concen: 22.843 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 193024

Ion	Ratio	Lower	Upper
77	100		
105	97.1	80.0	120.0
106	92.6	74.5	114.5

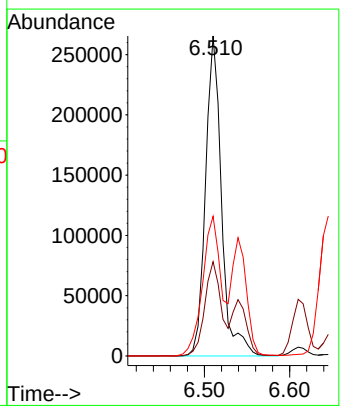


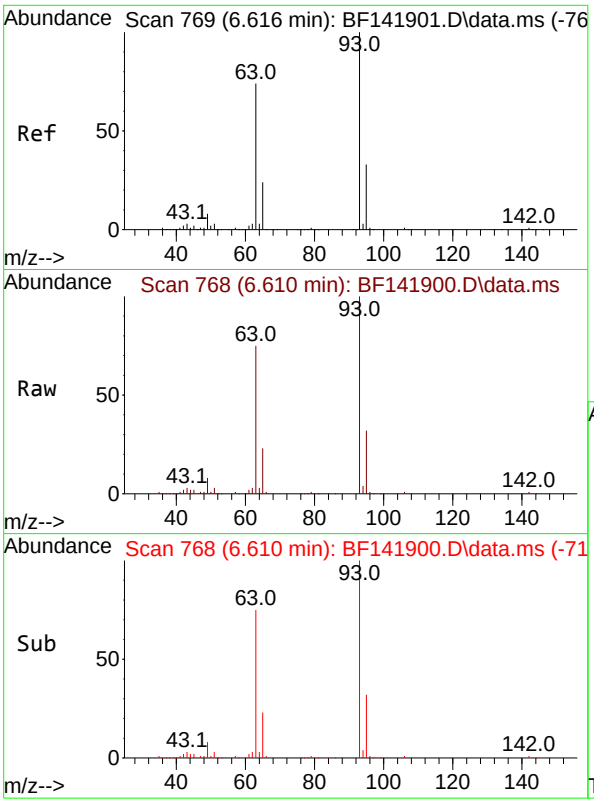


#10
Phenol
Concen: 21.692 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.012 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion: 94 Resp: 346008

Ion	Ratio	Lower	Upper
94	100		
65	29.5	10.5	50.5
66	43.6	25.8	65.8



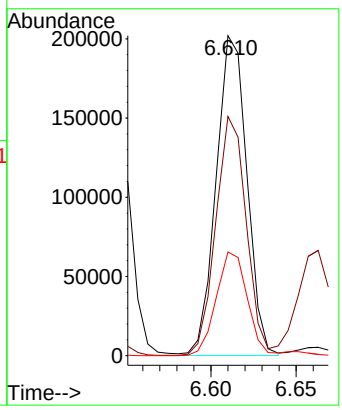


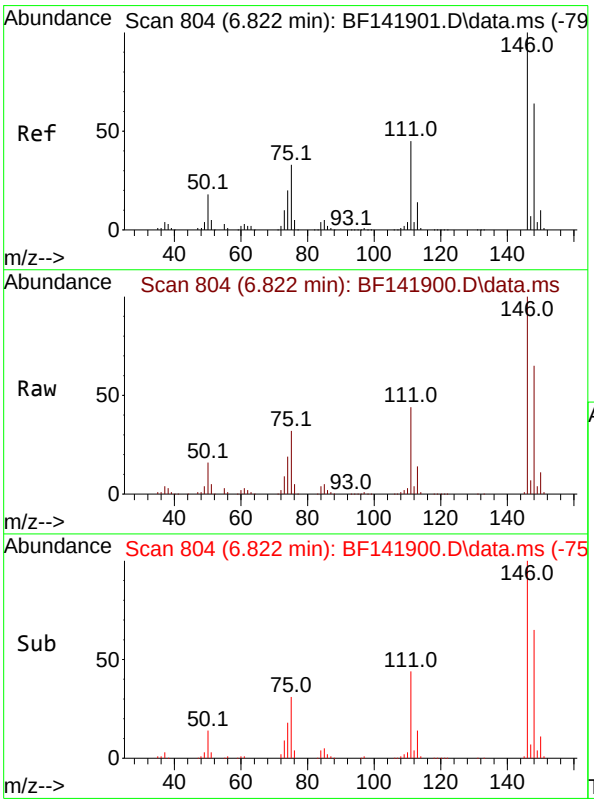
#11
bis(2-Chloroethyl)ether
Concen: 21.236 ng
RT: 6.610 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 253793

Ion	Ratio	Lower	Upper
93	100		
63	74.8	53.0	93.0
95	32.4	12.9	52.9

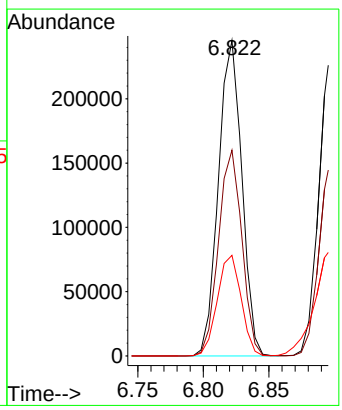


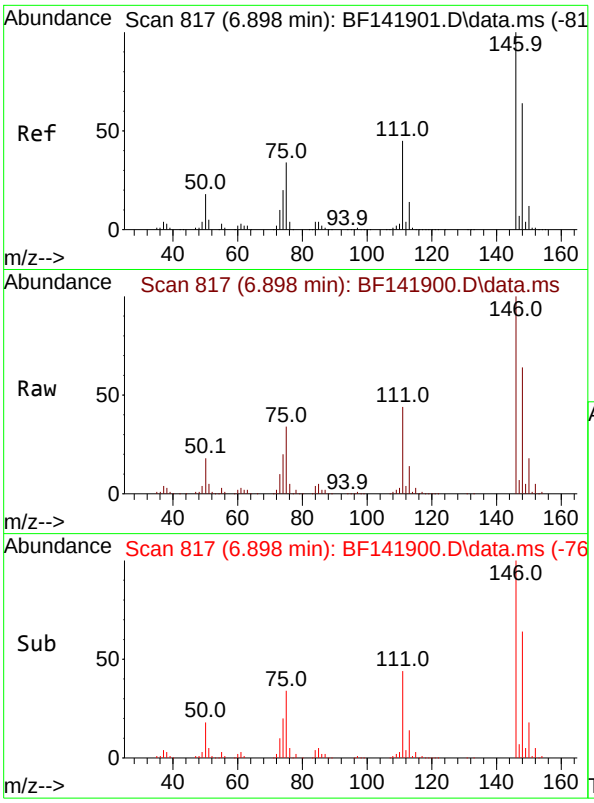


#12
1,3-Dichlorobenzene
Concen: 21.426 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:146 Resp: 304632

Ion	Ratio	Lower	Upper
146	100		
148	65.2	51.3	76.9
75	31.9	26.6	40.0



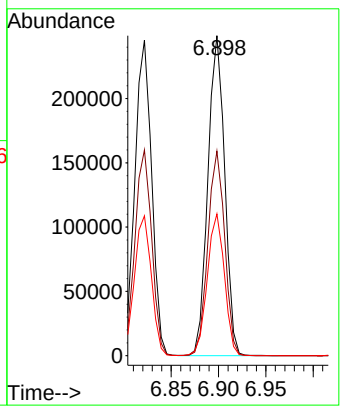


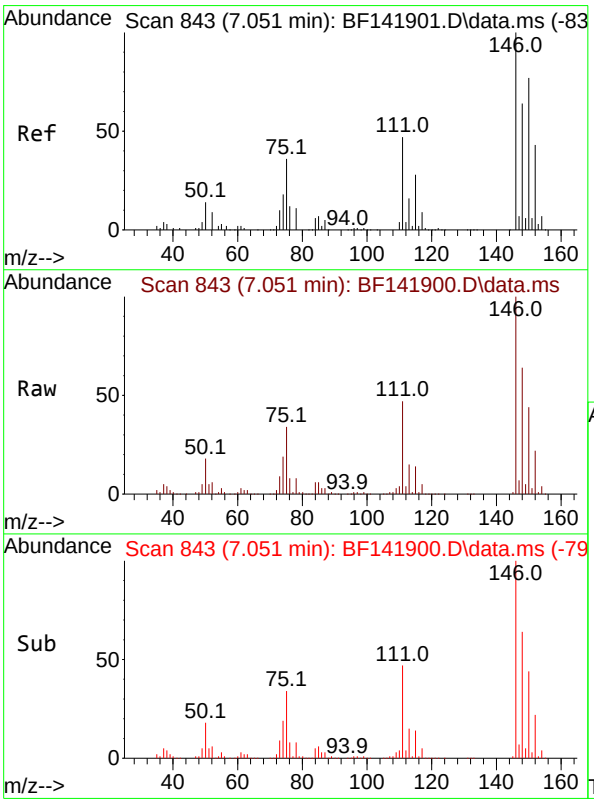
#13
1,4-Dichlorobenzene
Concen: 21.319 ng
RT: 6.898 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 306665

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.0	76.6
111	44.3	35.7	53.5

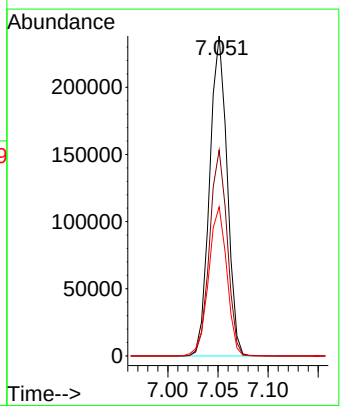


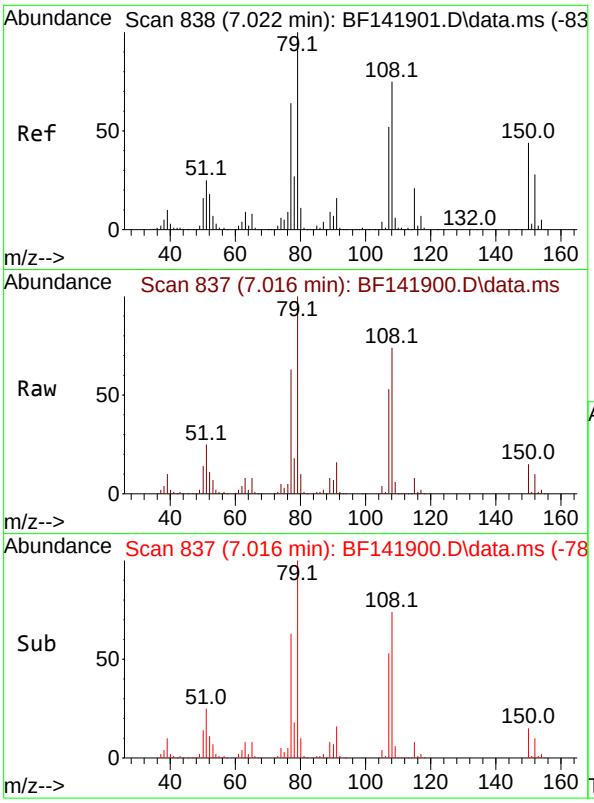


#14
1,2-Dichlorobenzene
Concen: 21.349 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:146 Resp: 289199

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.8	76.2
111	46.6	38.0	57.0



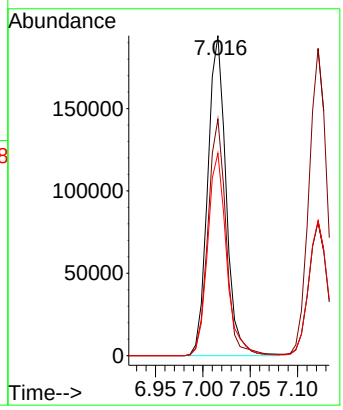


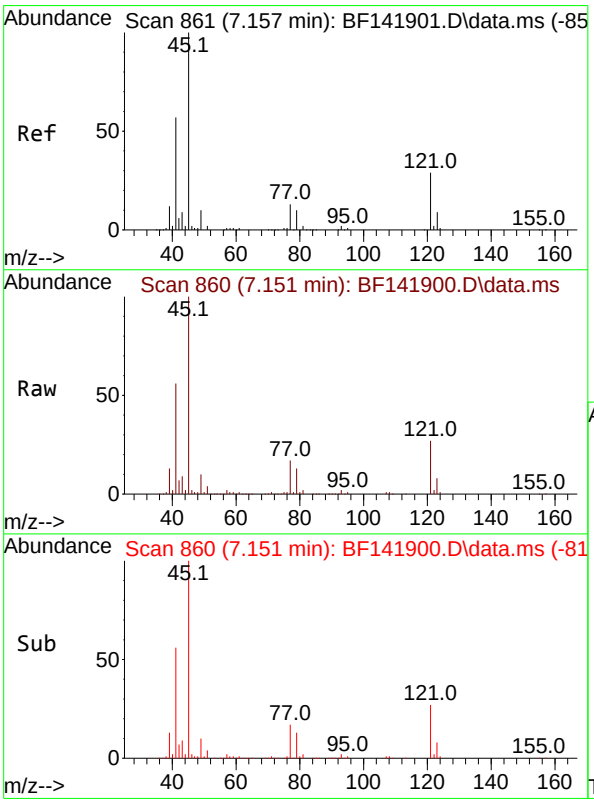
#15
Benzyl Alcohol
Concen: 21.402 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 261893

Ion	Ratio	Lower	Upper
79	100		
108	73.9	59.7	89.5
77	63.3	51.0	76.6

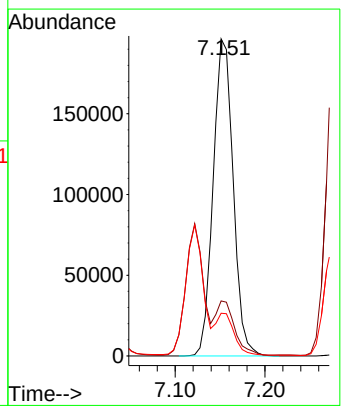


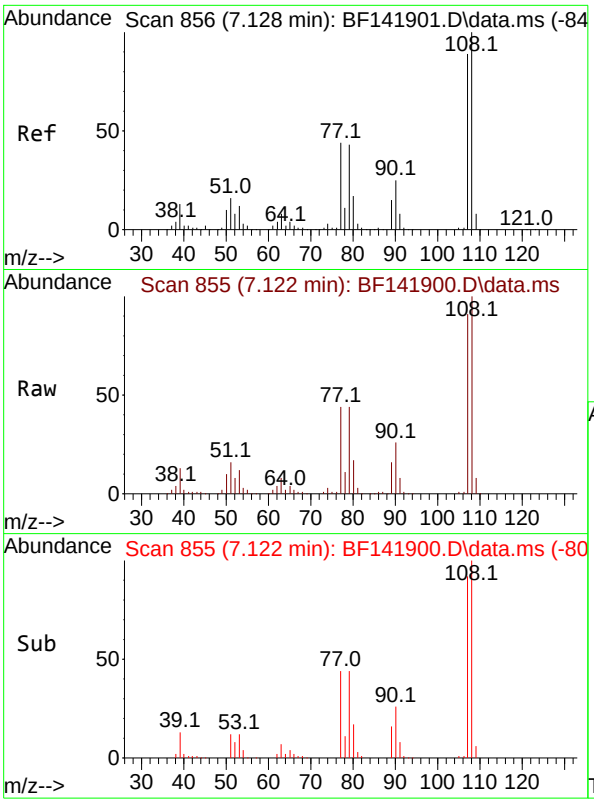


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.095 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion: 45 Resp: 303847

Ion	Ratio	Lower	Upper
45	100		
77	17.3	0.0	37.8
79	13.5	0.0	34.2



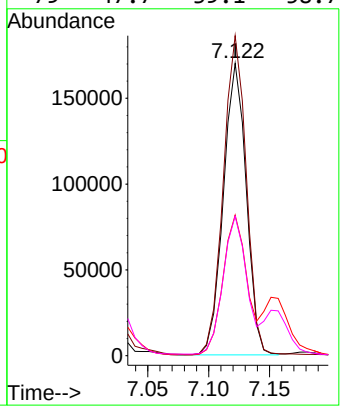


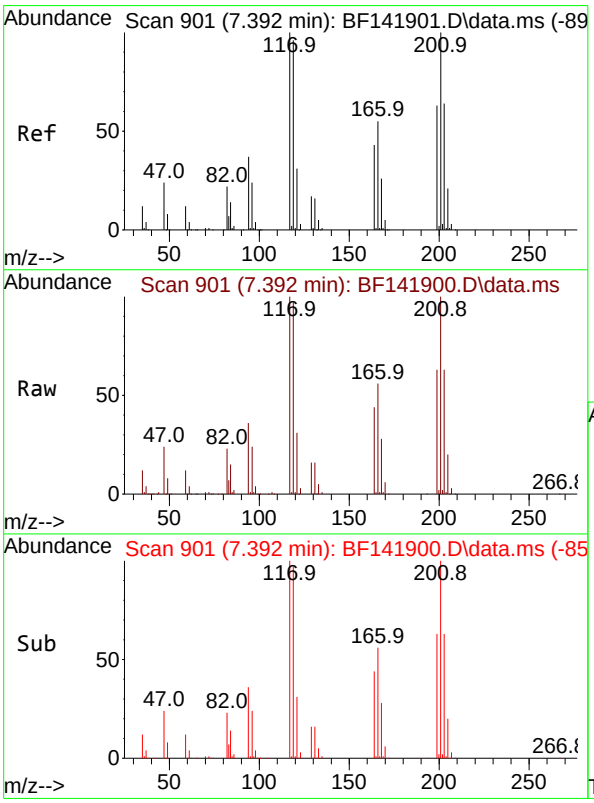
#17
2-Methylphenol
Concen: 21.248 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 222173

Ion	Ratio	Lower	Upper
107	100		
108	109.5	90.2	135.2
77	48.1	39.6	59.4
79	47.7	39.1	58.7

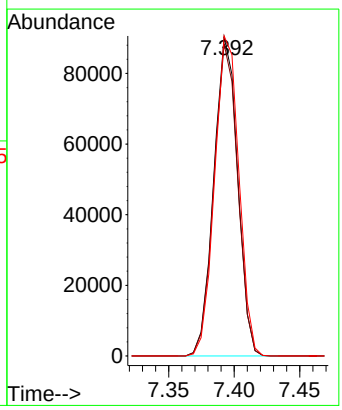


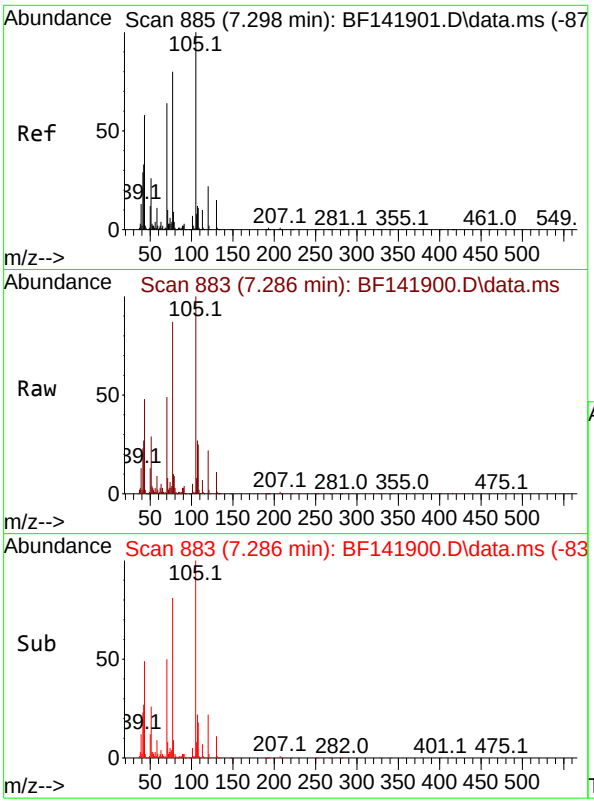


#18
Hexachloroethane
Concen: 21.141 ng
RT: 7.392 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:117 Resp: 114019

Ion	Ratio	Lower	Upper
117	100		
119	97.8	76.9	115.3
201	100.3	79.9	119.9



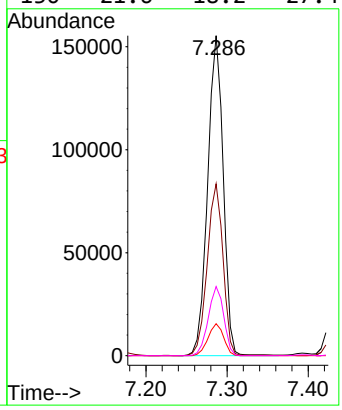


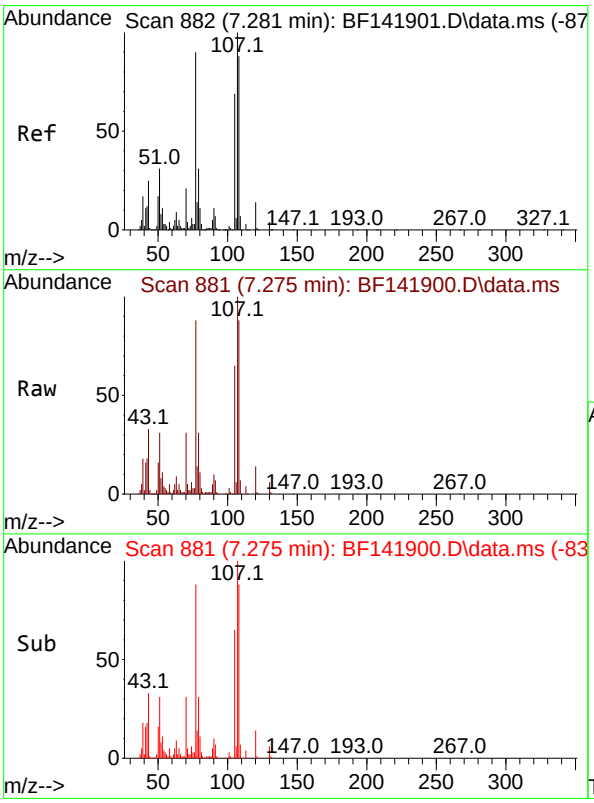
#19
n-Nitroso-di-n-propylamine
Concen: 21.268 ng
RT: 7.286 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 206654

Ion	Ratio	Lower	Upper
70	100		
42	53.7	41.4	62.0
101	10.0	8.2	12.2
130	21.6	18.2	27.4

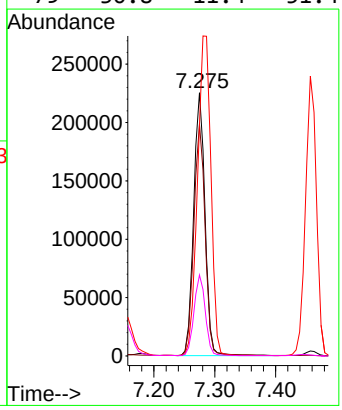


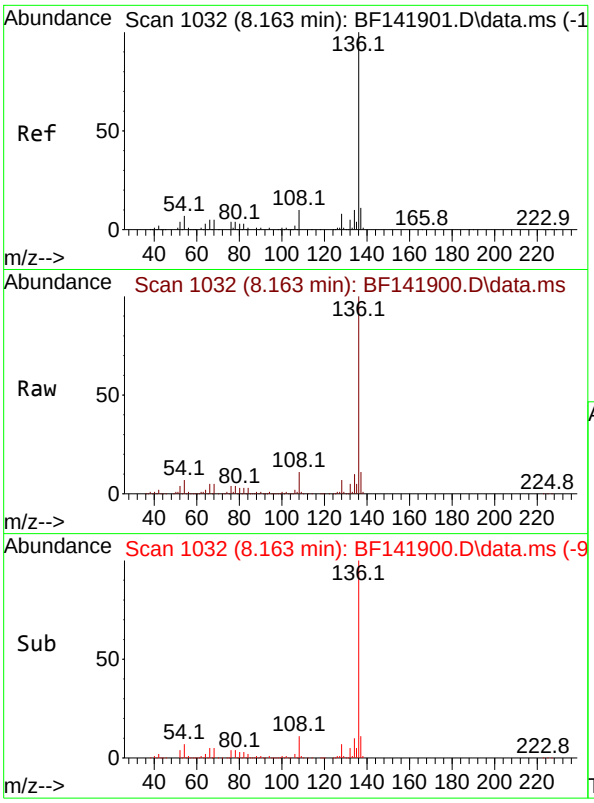


#20
3+4-Methylphenols
Concen: 21.702 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:107 Resp: 291065

Ion	Ratio	Lower	Upper
107	100		
108	88.1	68.4	108.4
77	87.9	69.7	109.7
79	30.8	11.4	51.4



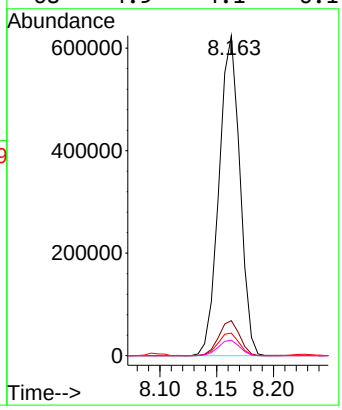


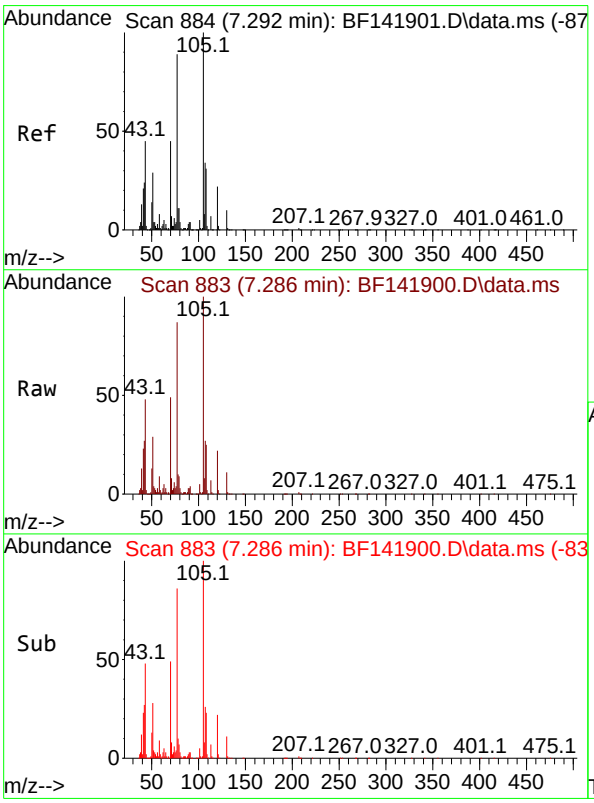
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 797548

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	7.1	5.8	8.8
68	4.9	4.1	6.1

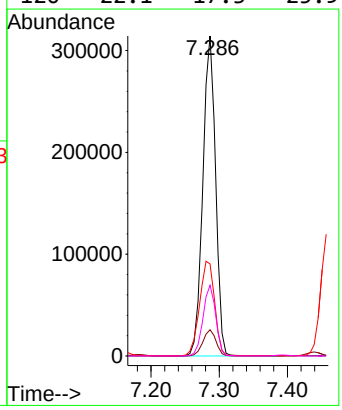


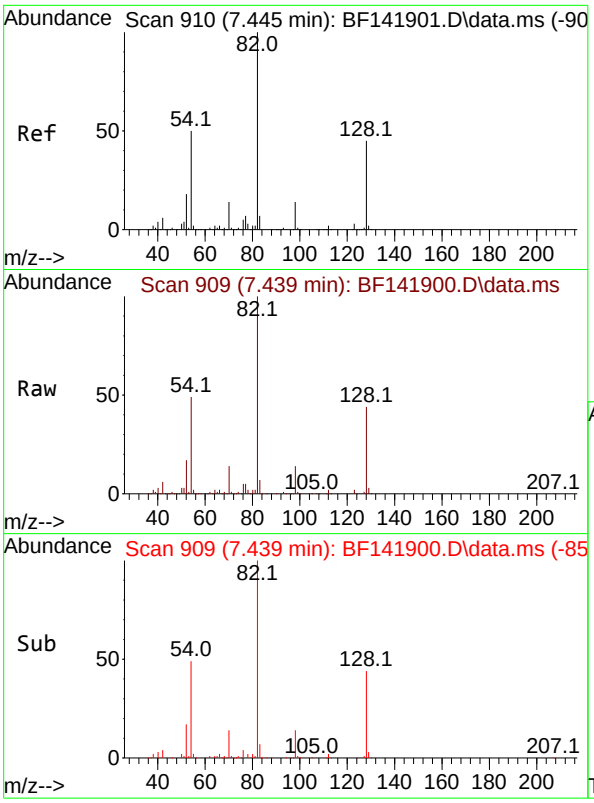


#22
Acetophenone
Concen: 21.385 ng
RT: 7.286 min Scan# 883
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:105 Resp: 409149

Ion	Ratio	Lower	Upper
105	100		
71	8.2	5.8	8.8
51	28.8	23.4	35.0
120	22.1	17.3	25.9



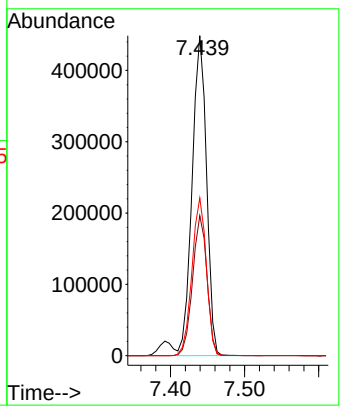


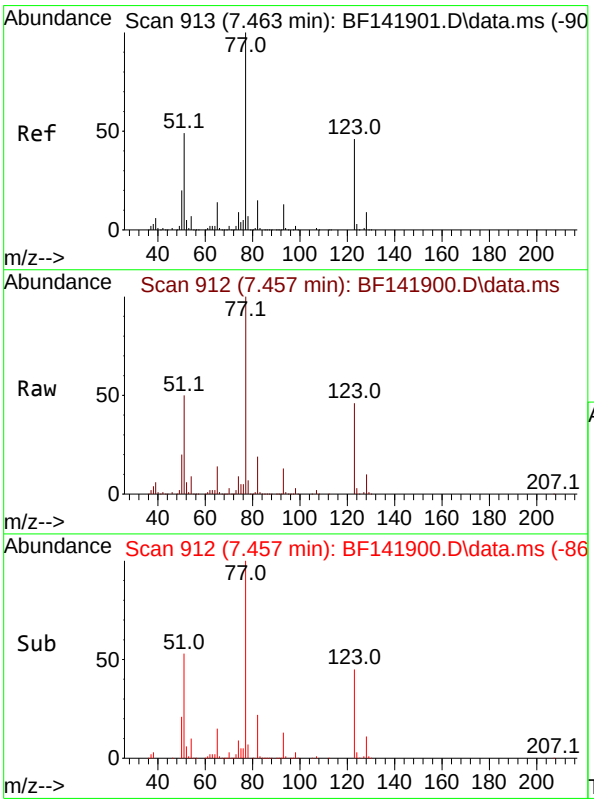
#23
Nitrobenzene-d5
Concen: 42.465 ng
RT: 7.439 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 604270

Ion	Ratio	Lower	Upper
82	100		
128	43.8	36.0	54.0
54	49.3	39.6	59.4

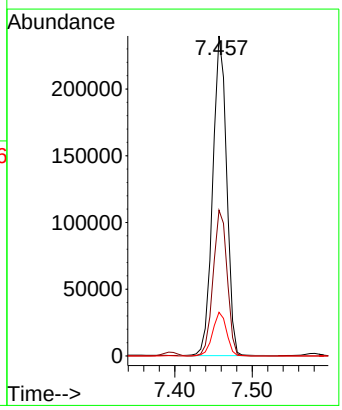


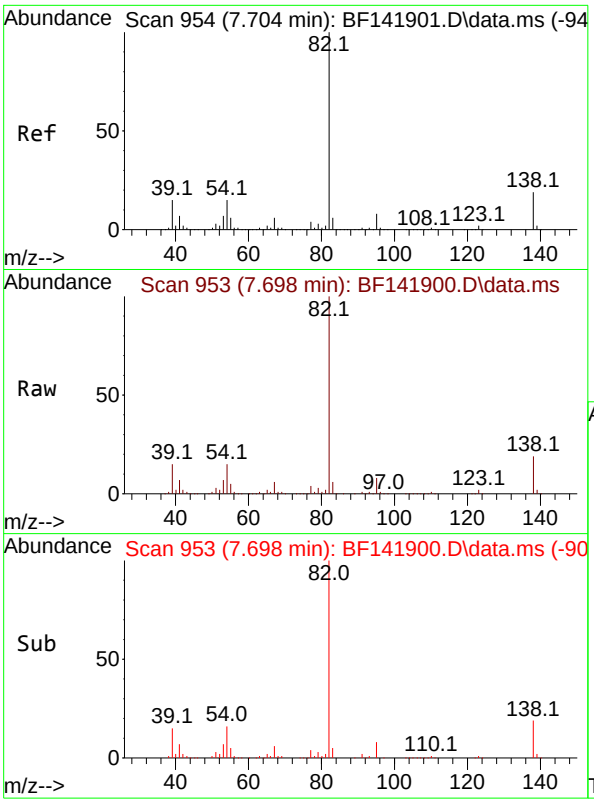


#24
Nitrobenzene
Concen: 21.196 ng
RT: 7.457 min Scan# 912
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion: 77 Resp: 299046

Ion	Ratio	Lower	Upper
77	100		
123	45.6	37.0	55.4
65	13.7	11.3	16.9



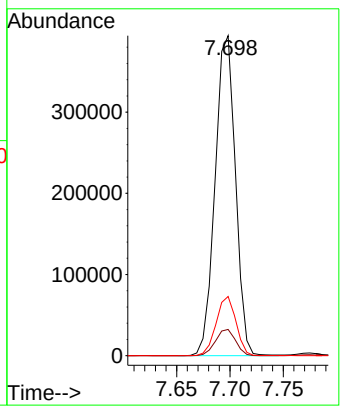


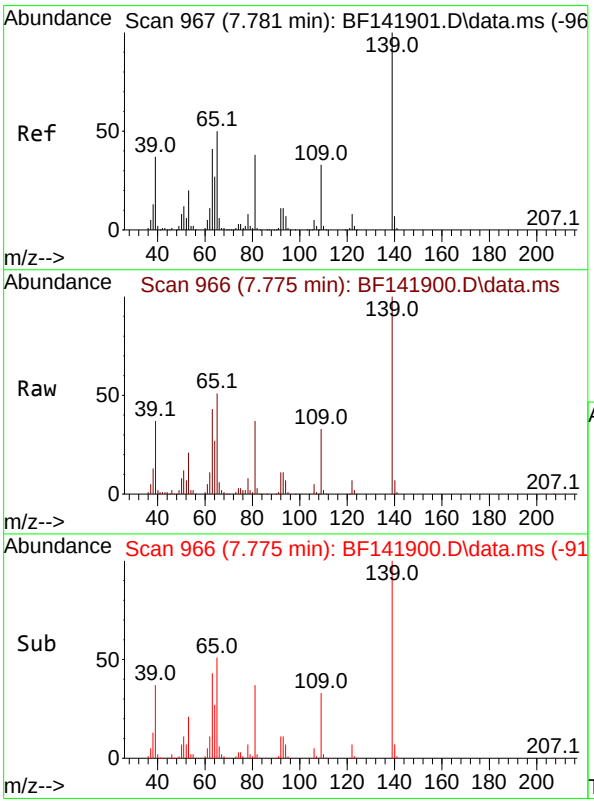
#25
Isophorone
Concen: 20.788 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 522239

Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.4	9.6
138	18.5	14.9	22.3

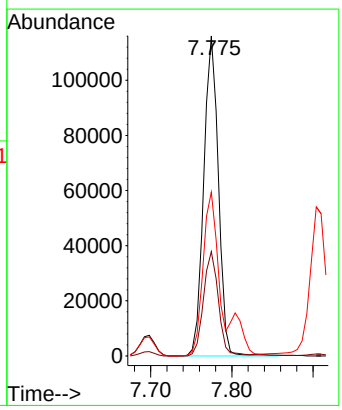


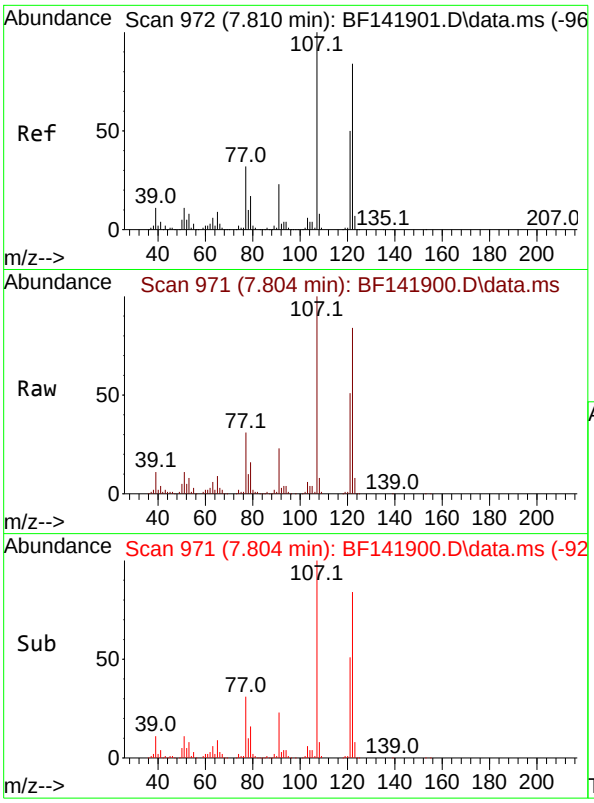


#26
2-Nitrophenol
Concen: 20.970 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:139 Resp: 144979

Ion	Ratio	Lower	Upper
139	100		
109	32.6	26.5	39.7
65	51.2	40.3	60.5



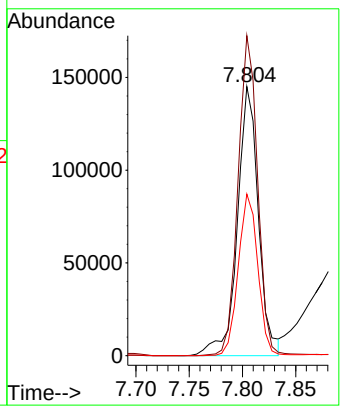


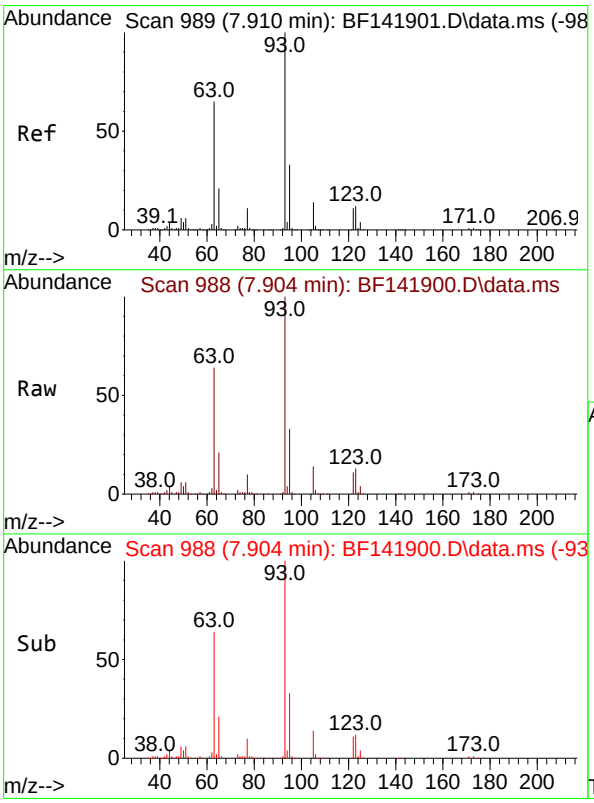
#27
2,4-Dimethylphenol
Concen: 21.009 ng
RT: 7.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 200058

Ion	Ratio	Lower	Upper
122	100		
107	118.9	94.8	142.2
121	60.1	47.8	71.6

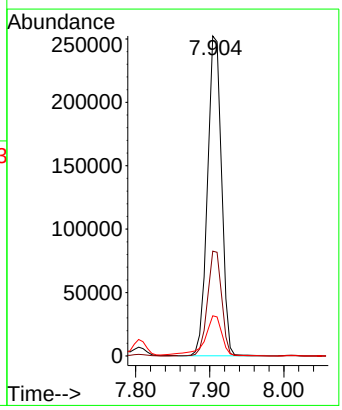


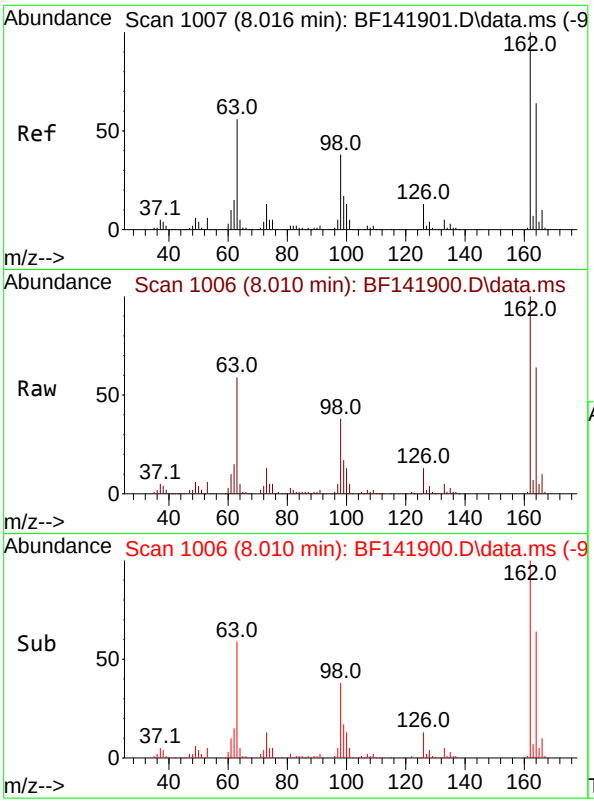


#28
bis(2-Chloroethoxy)methane
Concen: 21.093 ng
RT: 7.904 min Scan# 988
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion: 93 Resp: 331966

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.6	40.0
123	12.6	10.2	15.4



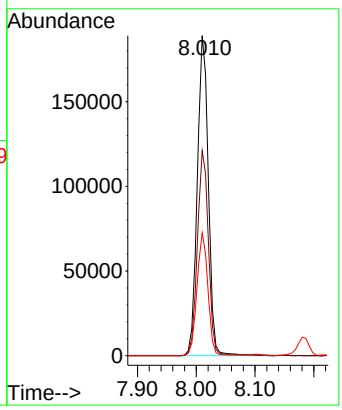


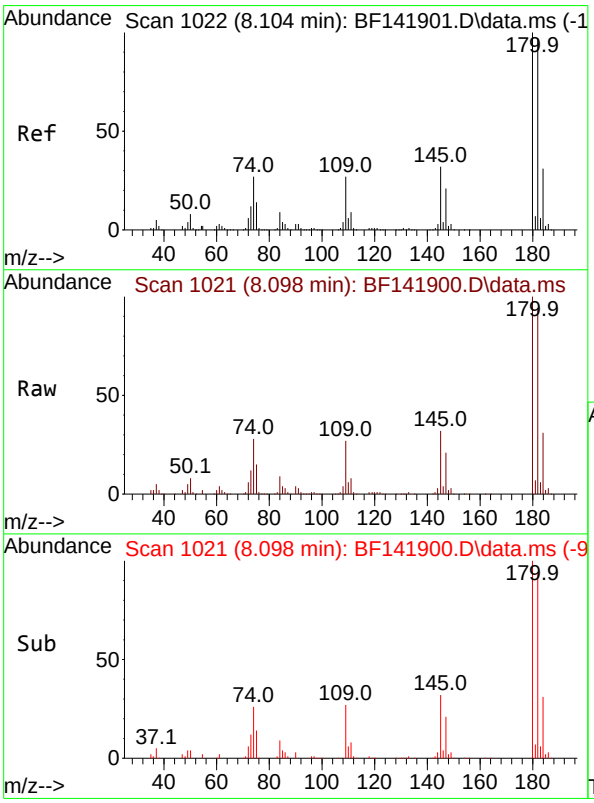
#29
2,4-Dichlorophenol
Concen: 20.884 ng
RT: 8.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 246810

Ion	Ratio	Lower	Upper
162	100		
164	64.0	43.8	83.8
98	38.4	18.1	58.1

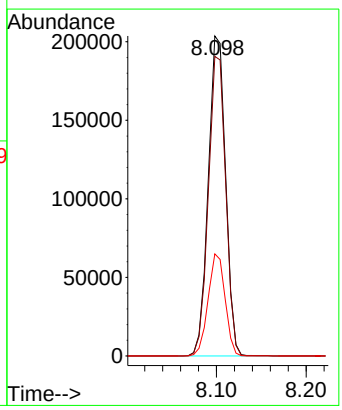


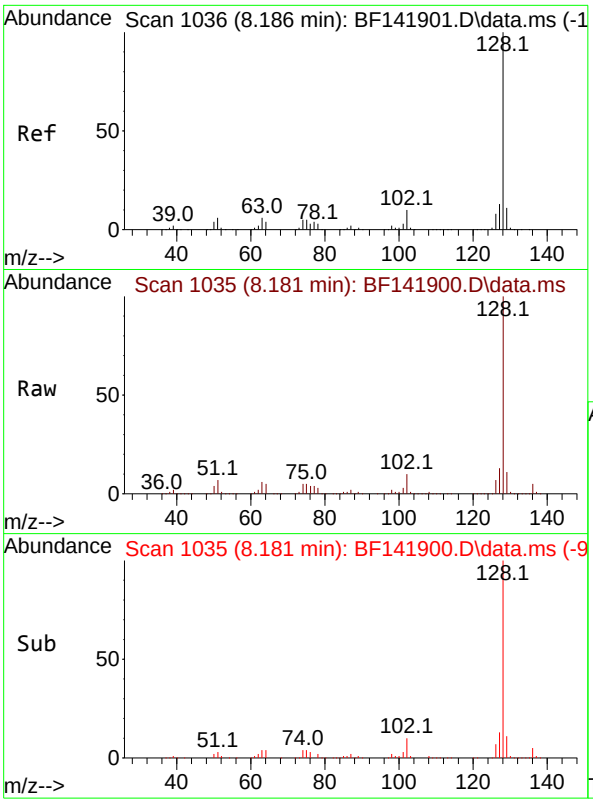


#30
1,2,4-Trichlorobenzene
Concen: 20.922 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:180 Resp: 272773

Ion	Ratio	Lower	Upper
180	100		
182	93.6	77.5	116.3
145	31.9	25.8	38.6



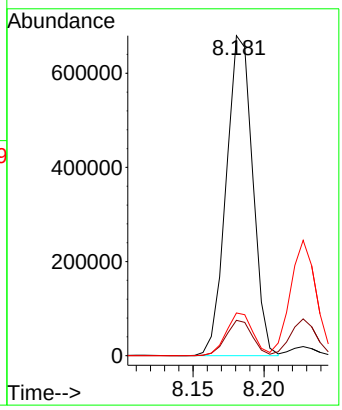


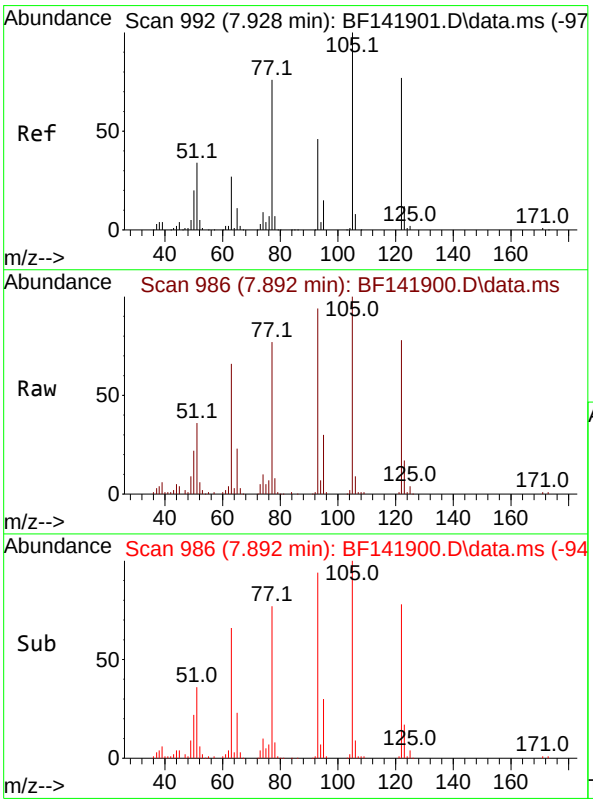
#31
Naphthalene
Concen: 21.487 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 877897

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.4	10.8	16.2

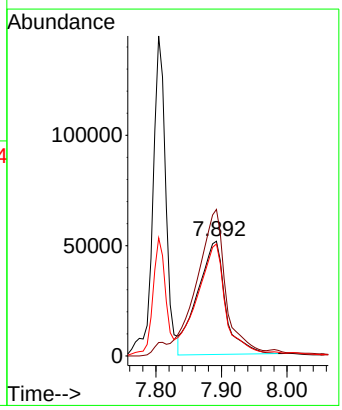


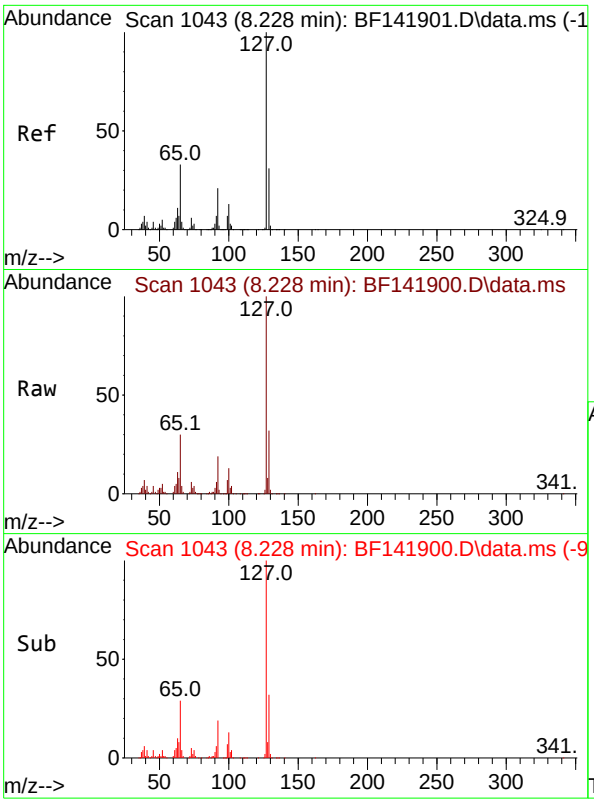


#32
Benzoic acid
Concen: 18.313 ng
RT: 7.892 min Scan# 986
Delta R.T. -0.036 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:122 Resp: 152420

Ion	Ratio	Lower	Upper
122	100		
105	127.6	107.9	147.9
77	97.6	79.0	119.0



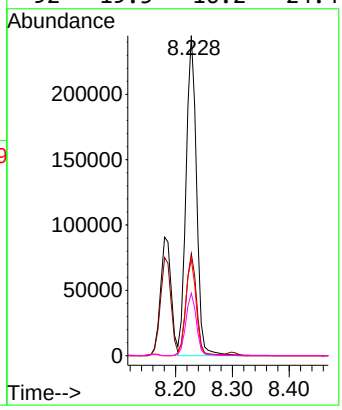


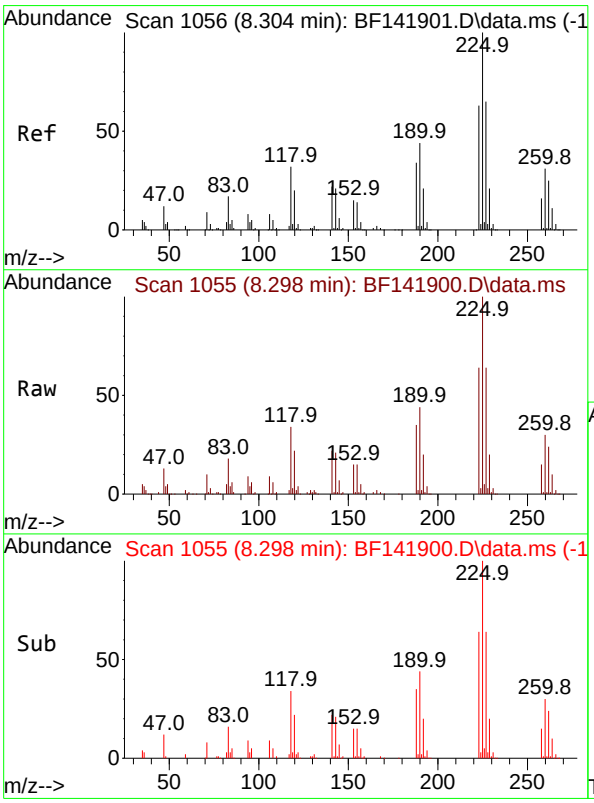
#33
4-Chloroaniline
Concen: 21.726 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 313249

Ion	Ratio	Lower	Upper
127	100		
129	31.9	26.2	39.4
65	30.0	25.4	38.2
92	19.5	16.2	24.4

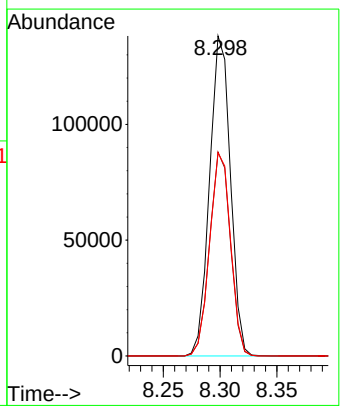


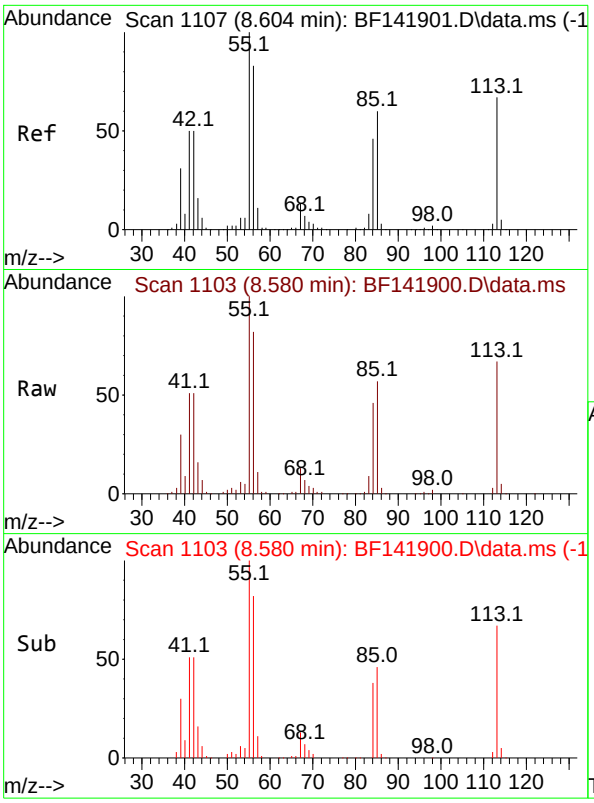


#34
Hexachlorobutadiene
Concen: 20.791 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:225 Resp: 176253

Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.6	75.8
227	63.5	52.2	78.2



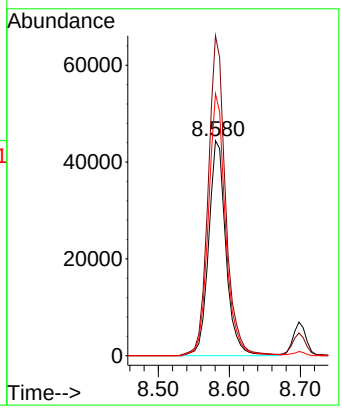


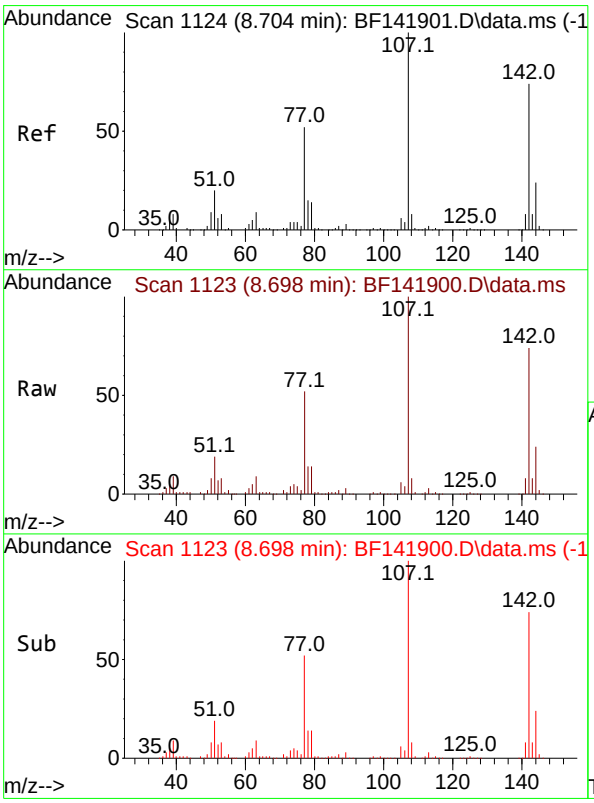
#35
Caprolactam
Concen: 20.884 ng
RT: 8.580 min Scan# 11
Delta R.T. -0.024 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 75048

Ion	Ratio	Lower	Upper
113	100		
55	148.8	129.6	169.6
56	121.8	104.0	144.0

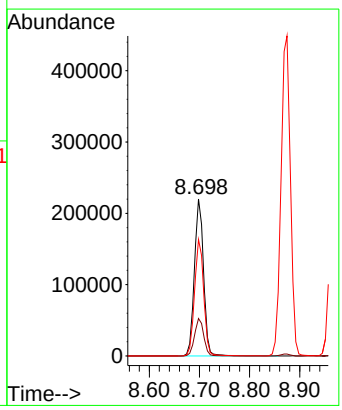


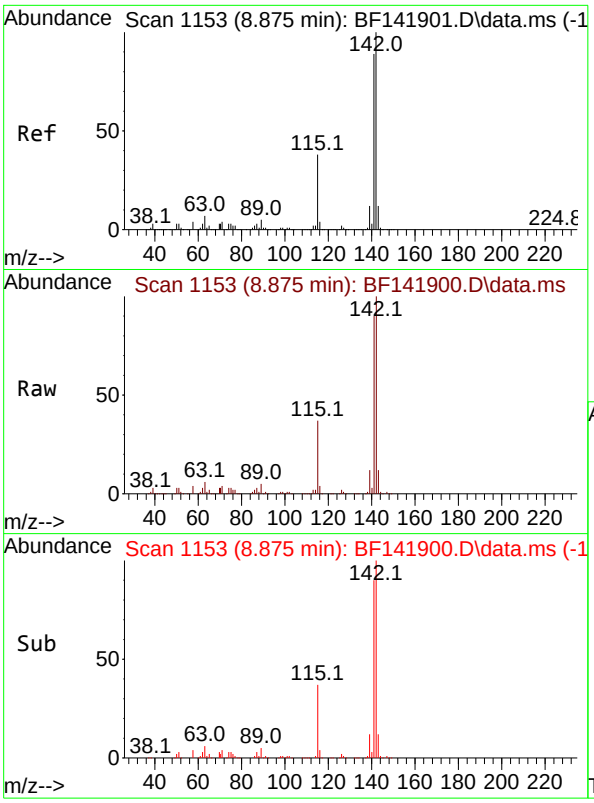


#36
4-Chloro-3-methylphenol
Concen: 21.168 ng
RT: 8.698 min Scan# 1123
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:107 Resp: 278207

Ion	Ratio	Lower	Upper
107	100		
144	23.9	19.0	28.6
142	74.3	59.2	88.8



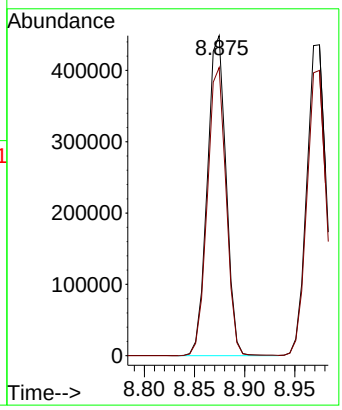


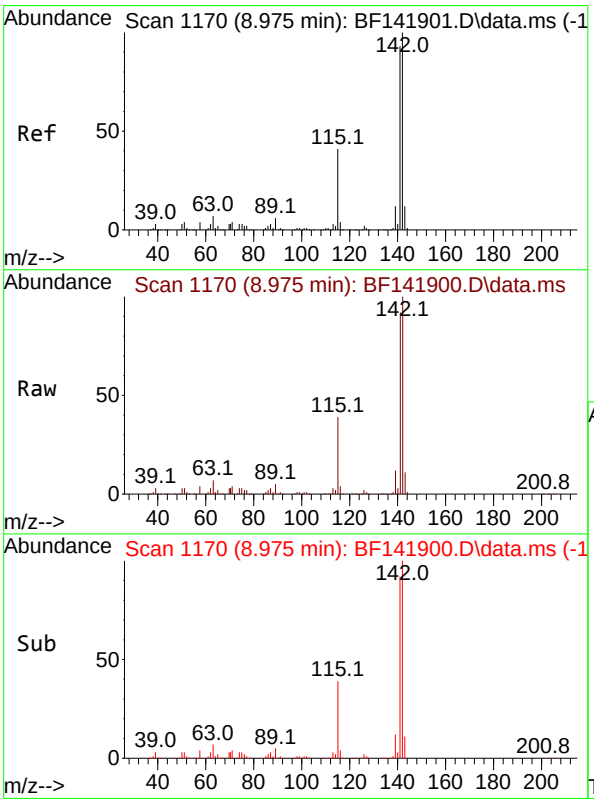
#37
2-Methylnaphthalene
Concen: 21.324 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 584552

Ion	Ratio	Lower	Upper
142	100		
141	90.0	71.2	106.8

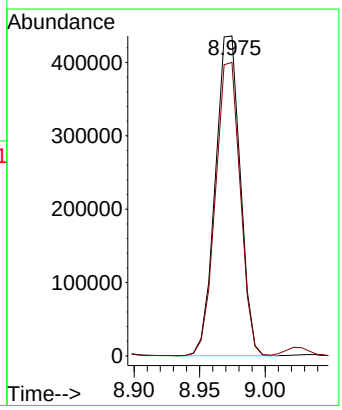


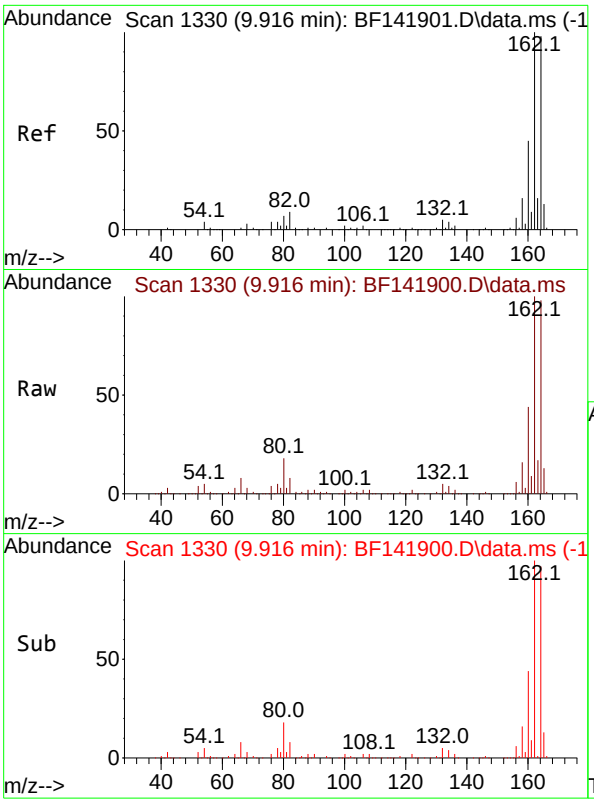


#38
1-Methylnaphthalene
Concen: 21.677 ng
RT: 8.975 min Scan# 1170
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:142 Resp: 575428

Ion	Ratio	Lower	Upper
142	100		
141	91.8	74.2	111.4



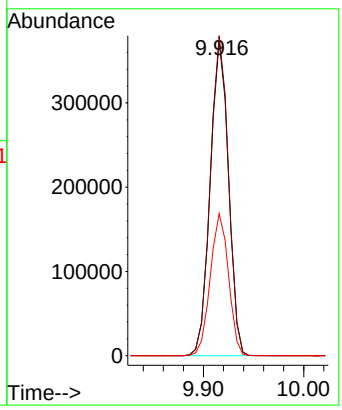


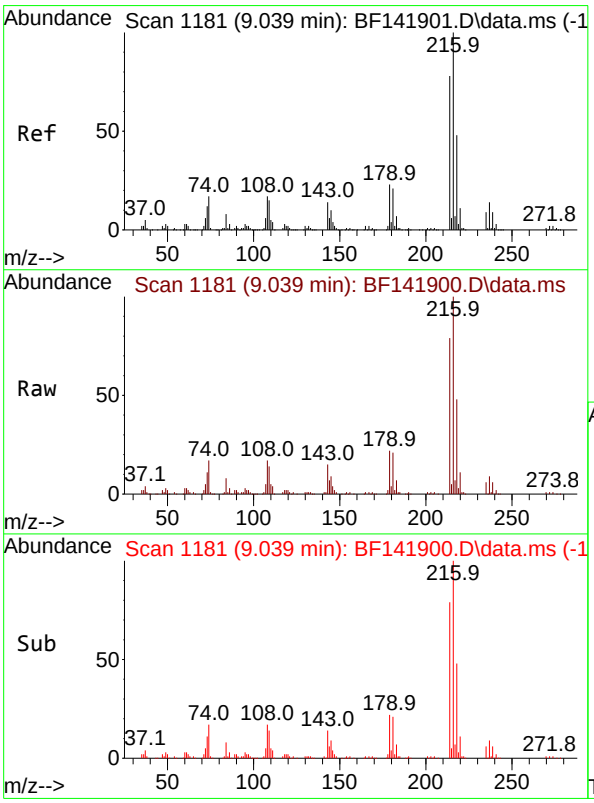
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 470833

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.8	122.6
160	45.1	36.7	55.1

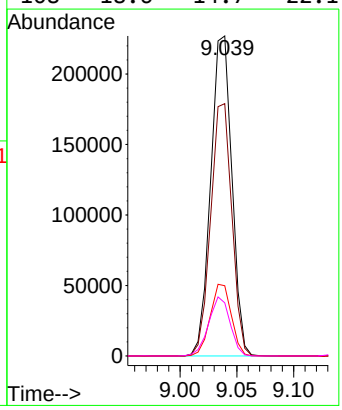


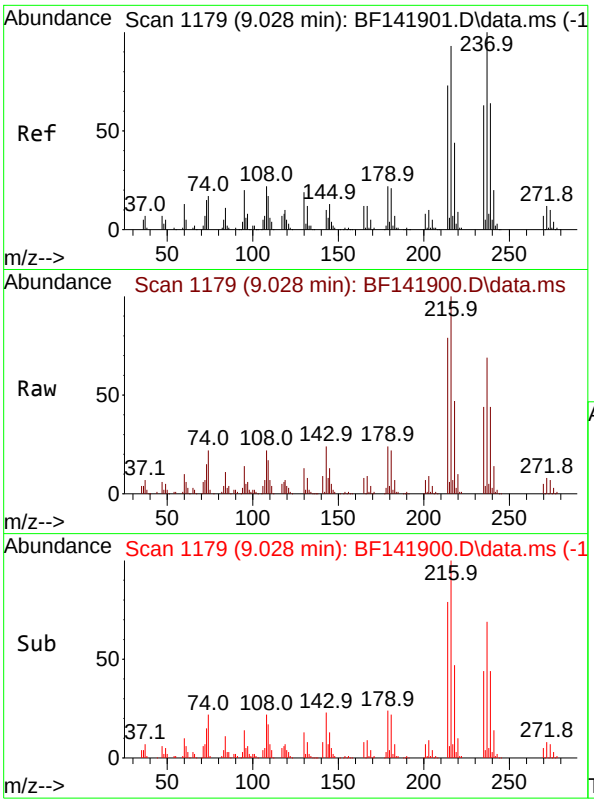


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.538 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:216 Resp: 294845

Ion	Ratio	Lower	Upper
216	100		
214	78.7	61.9	92.9
179	22.3	18.1	27.1
108	18.6	14.7	22.1



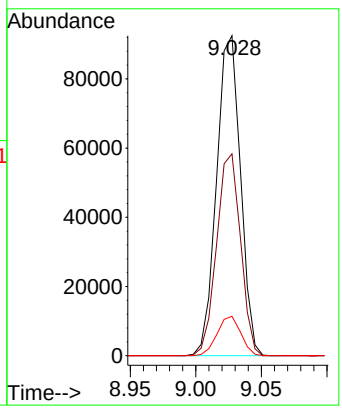


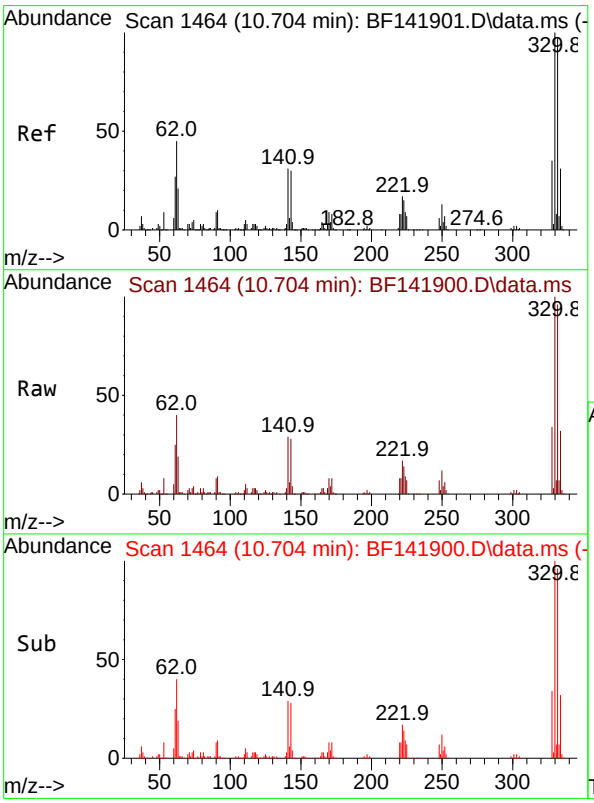
#41
Hexachlorocyclopentadiene
Concen: 20.685 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 117174

Ion	Ratio	Lower	Upper
237	100		
235	63.1	43.1	83.1
272	12.3	0.0	32.0

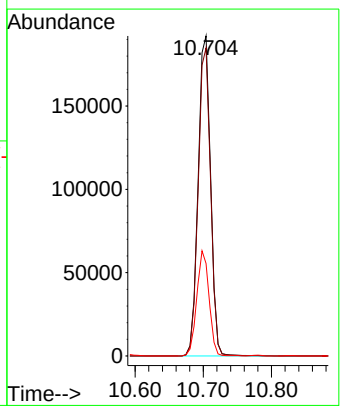


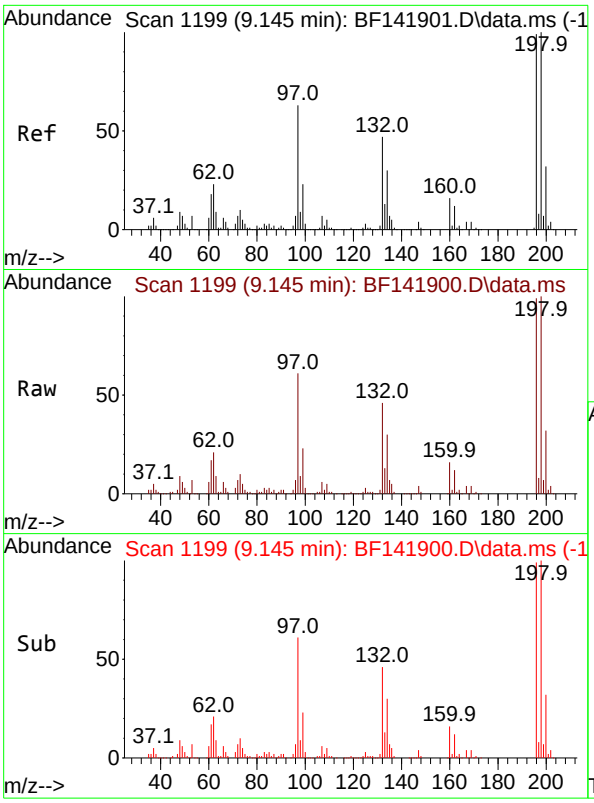


#42
2,4,6-Tribromophenol
Concen: 40.869 ng
RT: 10.704 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:330 Resp: 243832

Ion	Ratio	Lower	Upper
330	100		
332	95.8	77.6	116.4
141	32.4	24.7	37.1



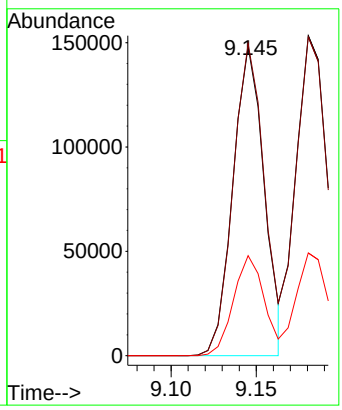


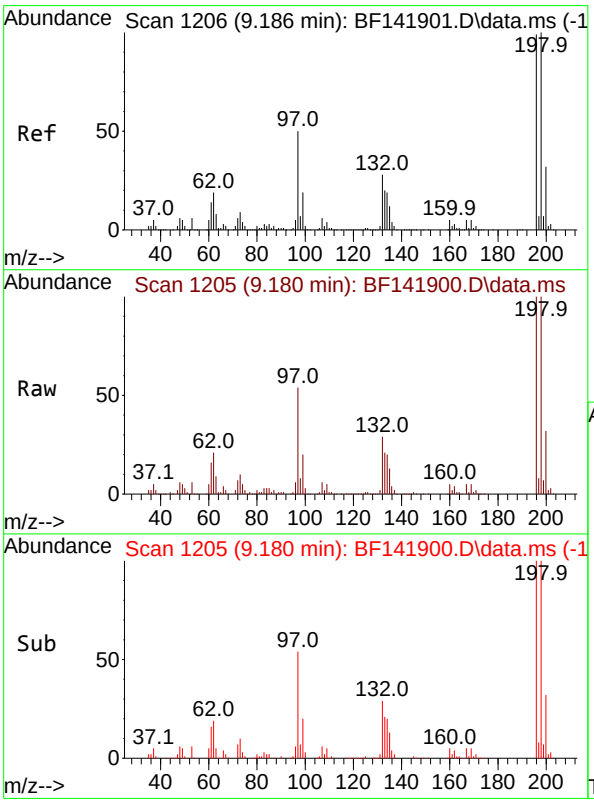
#43
2,4,6-Trichlorophenol
Concen: 20.203 ng
RT: 9.145 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 189069

Ion	Ratio	Lower	Upper
196	100		
198	100.9	80.6	121.0
200	32.3	25.8	38.6

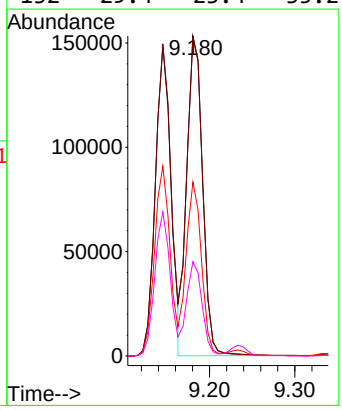


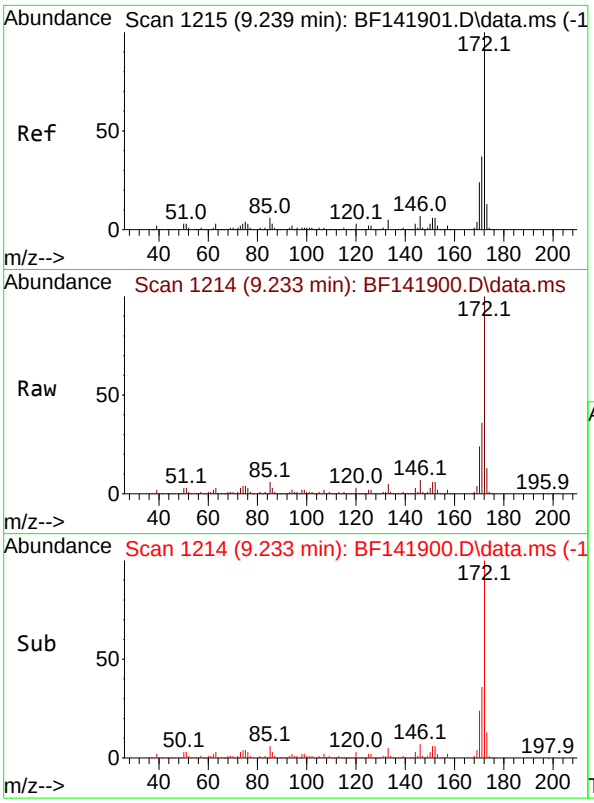


#44
2,4,5-Trichlorophenol
Concen: 20.912 ng
RT: 9.180 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:196 Resp: 198841

Ion	Ratio	Lower	Upper
196	100		
198	99.6	80.7	121.1
97	54.3	42.1	63.1
132	29.4	23.4	35.2



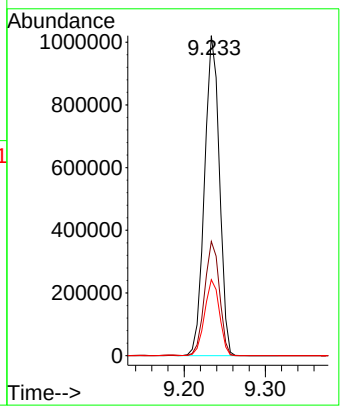


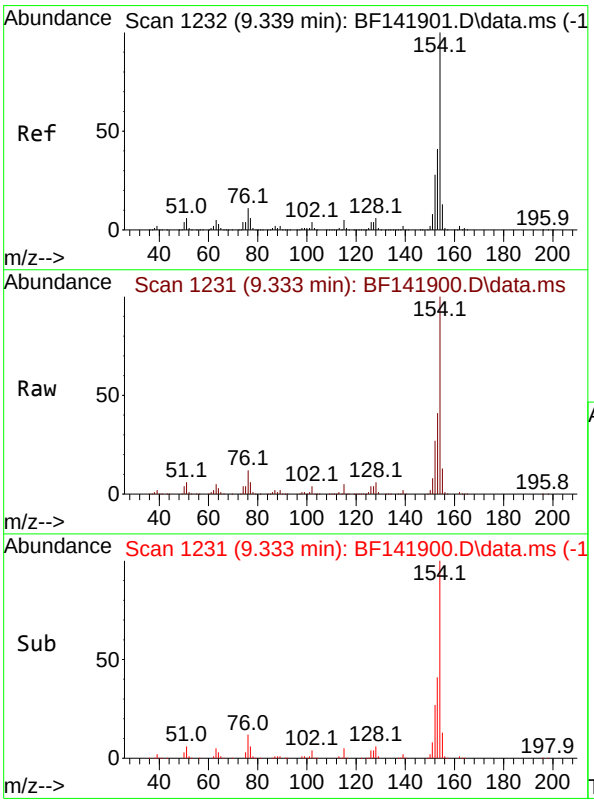
#45
2-Fluorobiphenyl
Concen: 42.002 ng
RT: 9.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 1298709

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.3	43.9
170	23.7	19.4	29.0

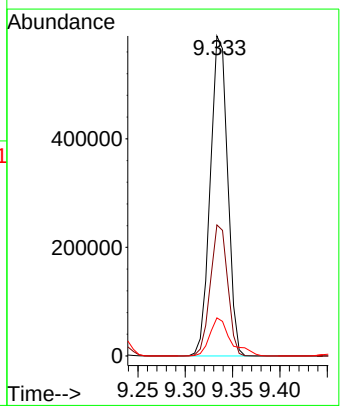


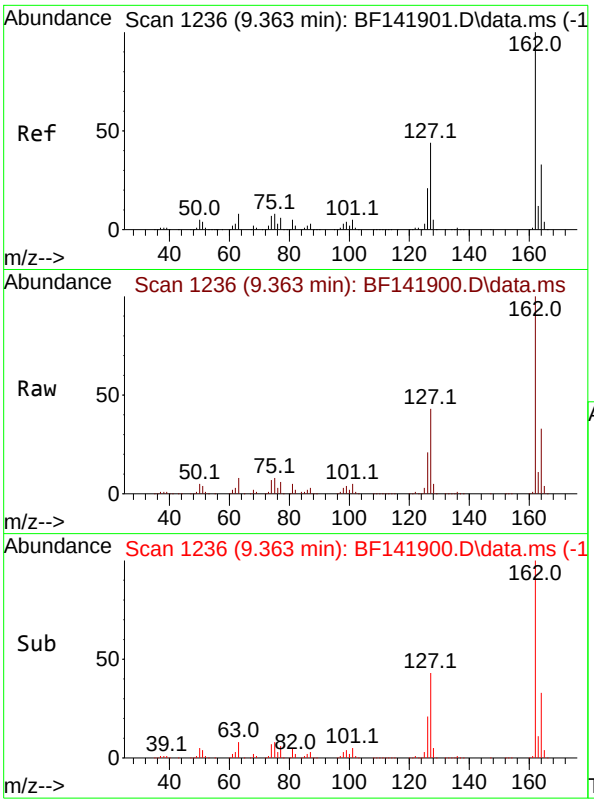


#46
1,1'-Biphenyl
Concen: 20.985 ng
RT: 9.333 min Scan# 1231
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:154 Resp: 749087

Ion	Ratio	Lower	Upper
154	100		
153	41.0	21.1	61.1
76	11.9	0.0	31.3



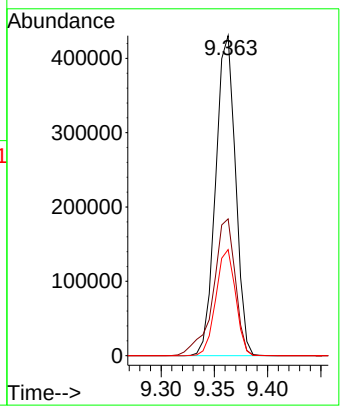


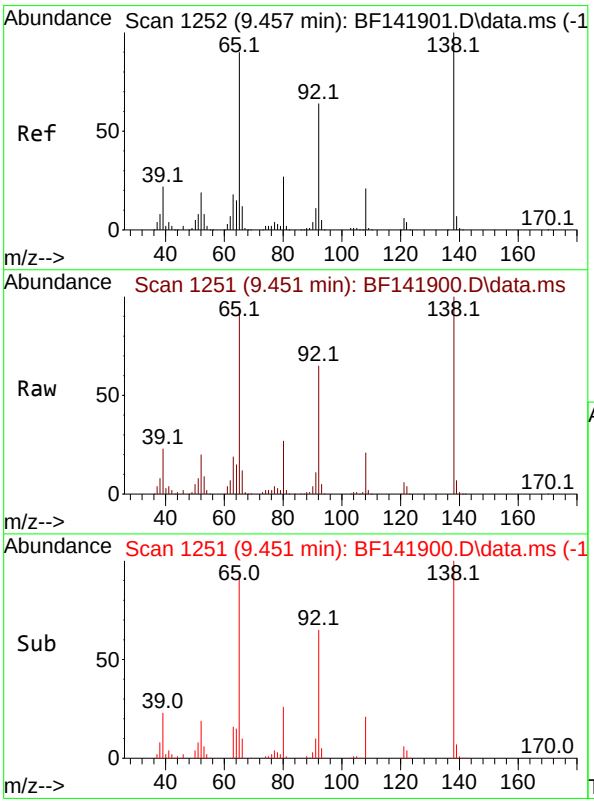
#47
2-Chloronaphthalene
Concen: 20.898 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 555946

Ion	Ratio	Lower	Upper
162	100		
127	42.8	35.5	53.3
164	33.1	26.6	40.0

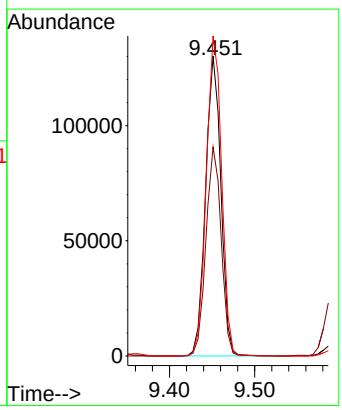


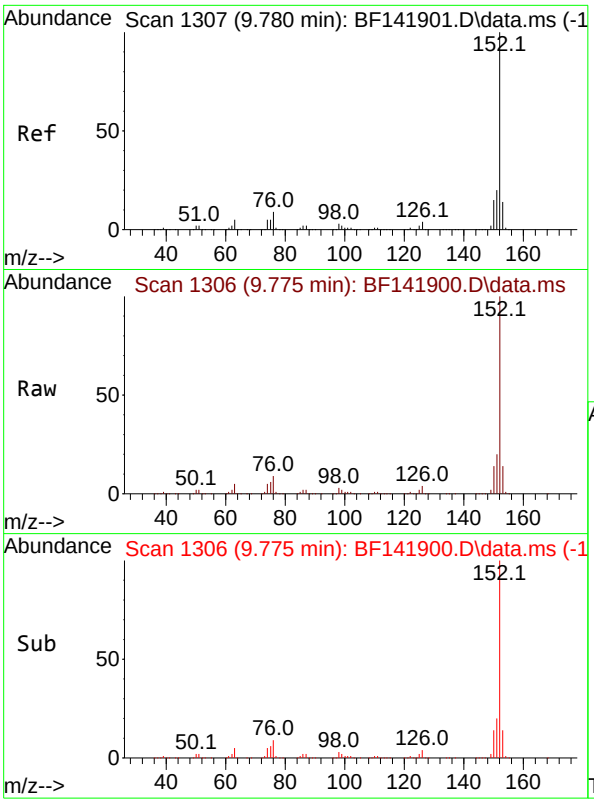


#48
2-Nitroaniline
Concen: 21.302 ng
RT: 9.451 min Scan# 1251
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion: 65 Resp: 162790

Ion	Ratio	Lower	Upper
65	100		
92	69.7	56.6	84.8
138	106.7	88.6	133.0



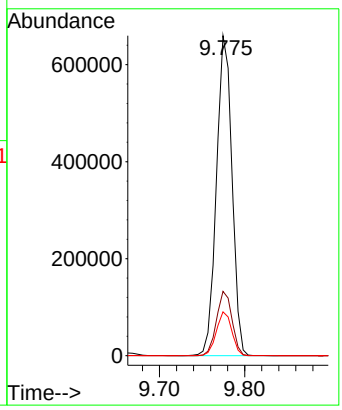


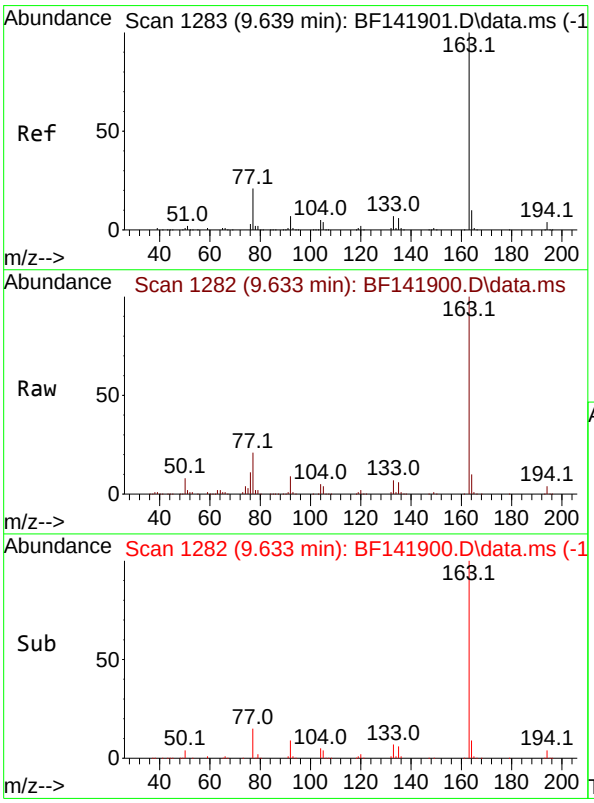
#49
Acenaphthylene
Concen: 21.222 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 837016

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	13.7	11.1	16.7

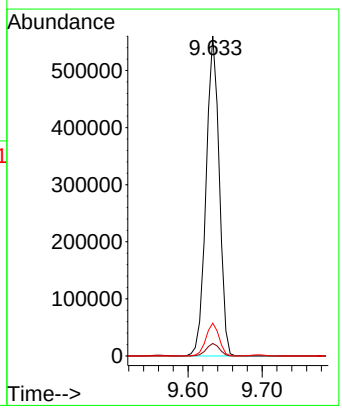


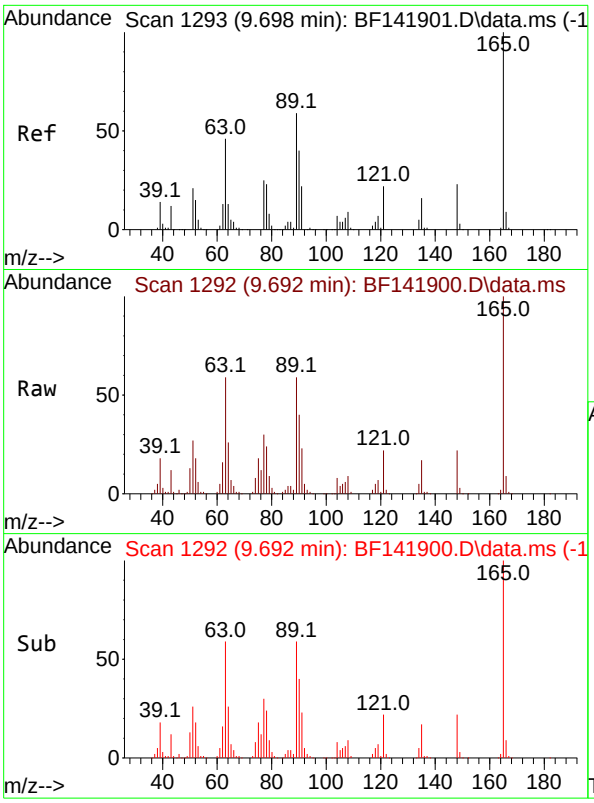


#50
Dimethylphthalate
Concen: 21.137 ng
RT: 9.633 min Scan# 1282
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:163 Resp: 691454

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.3	8.2	12.4



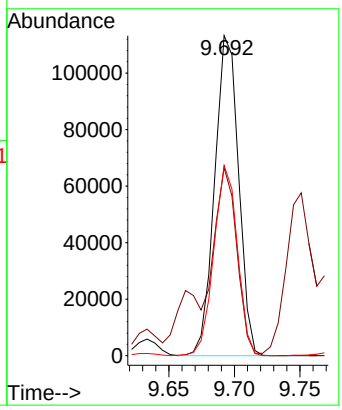


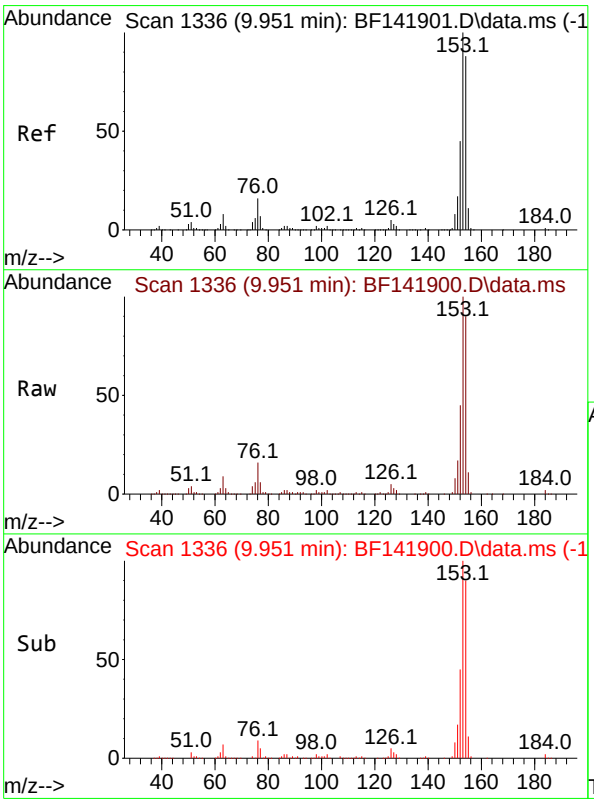
#51
2,6-Dinitrotoluene
Concen: 21.096 ng
RT: 9.692 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 143513

Ion	Ratio	Lower	Upper
165	100		
63	58.7	47.0	70.4
89	59.5	47.4	71.2

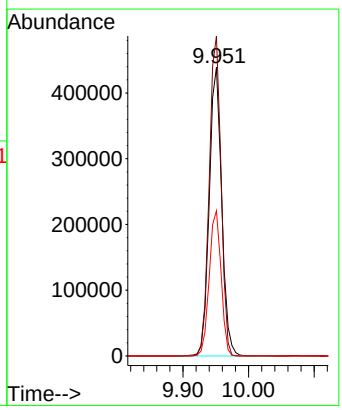


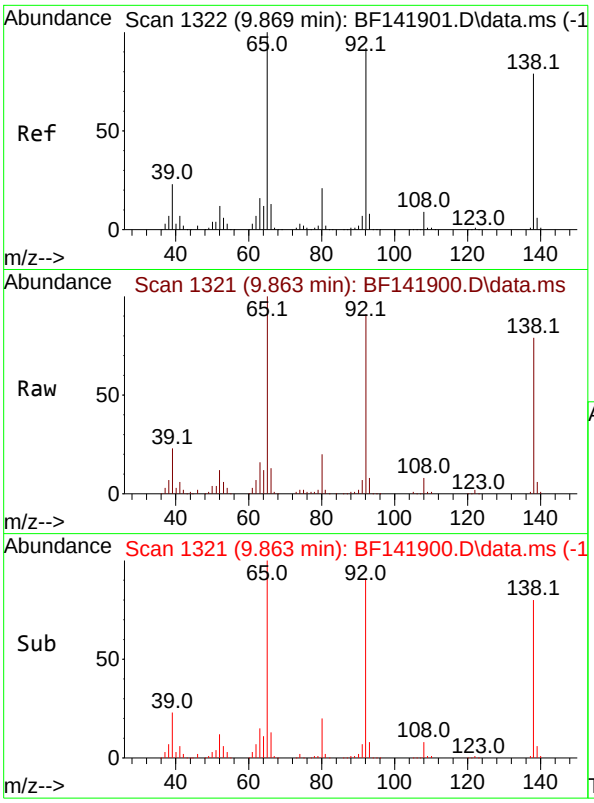


#52
Acenaphthene
Concen: 20.813 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:154 Resp: 579623

Ion	Ratio	Lower	Upper
154	100		
153	110.9	90.7	136.1
152	50.3	41.1	61.7



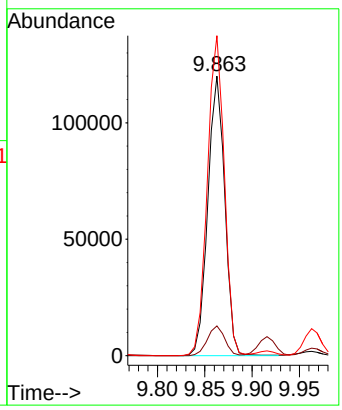


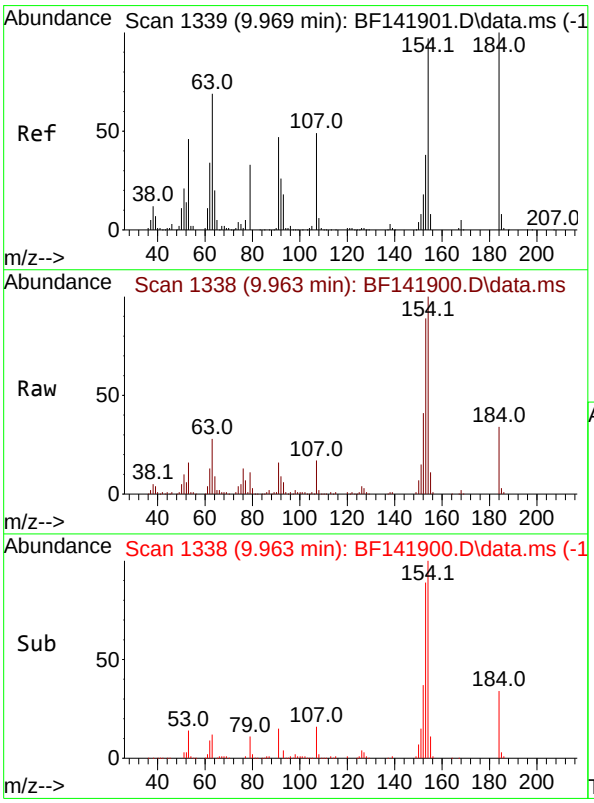
#53
3-Nitroaniline
Concen: 21.327 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 148977

Ion	Ratio	Lower	Upper
138	100		
108	10.6	9.3	13.9
92	114.5	93.5	140.3

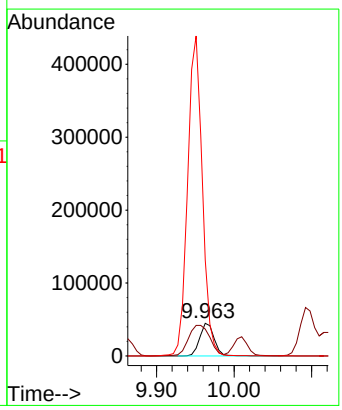


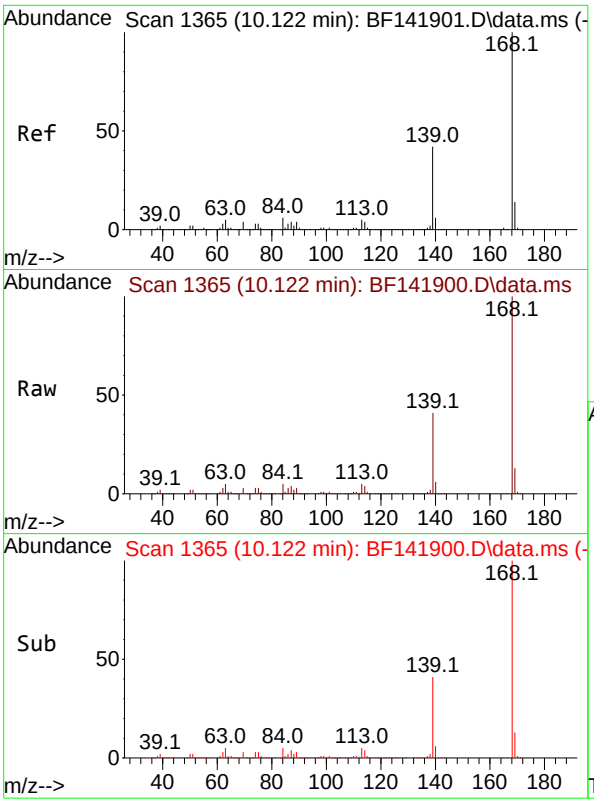


#54
2,4-Dinitrophenol
Concen: 20.368 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:184 Resp: 58223

Ion	Ratio	Lower	Upper
184	100		
63	82.2	60.2	90.4
154	293.5	132.9	199.3#



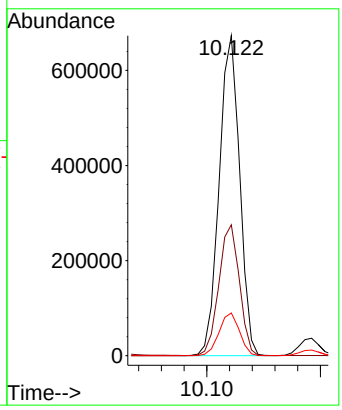


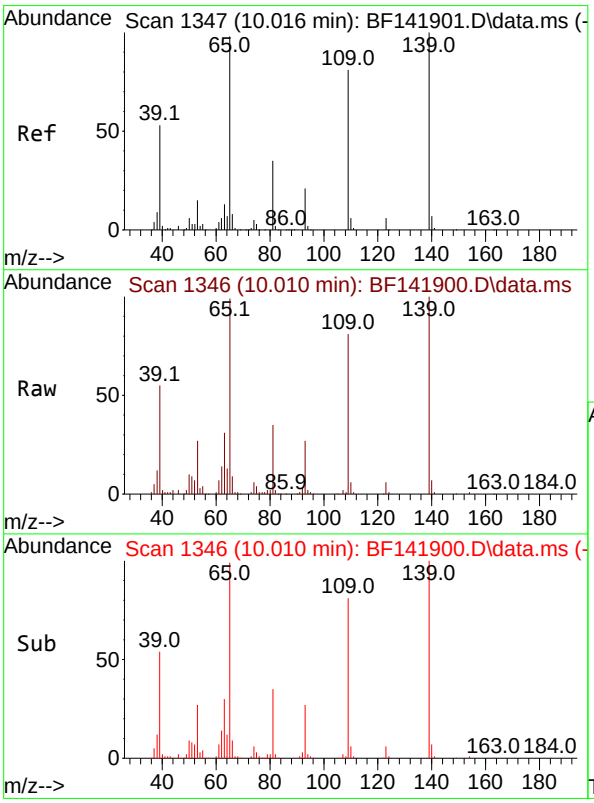
#55
Dibenzofuran
Concen: 21.238 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 843359

Ion	Ratio	Lower	Upper
168	100		
139	40.9	33.9	50.9
169	13.3	11.0	16.4

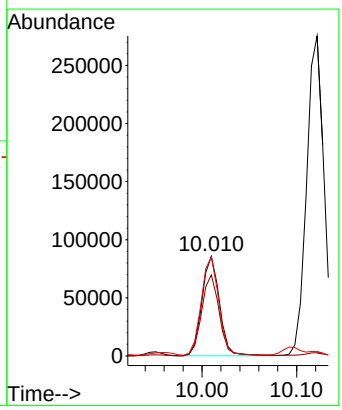


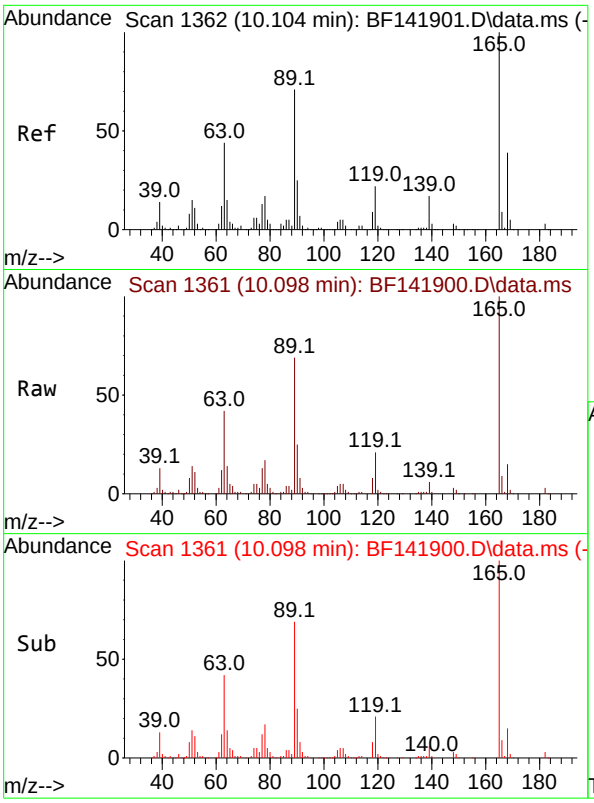


#56
4-Nitrophenol
Concen: 20.955 ng
RT: 10.010 min Scan# 1346
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:139 Resp: 109958

Ion	Ratio	Lower	Upper
139	100		
109	81.5	61.6	101.6
65	99.4	79.4	119.4



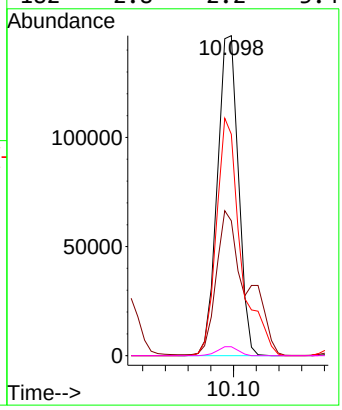


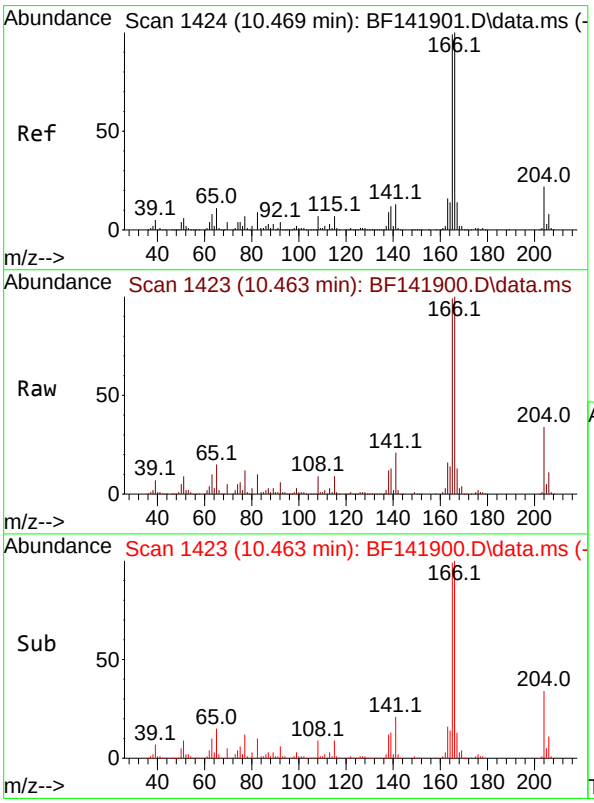
#57
2,4-Dinitrotoluene
Concen: 21.132 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 189234

Ion	Ratio	Lower	Upper
165	100		
63	42.1	35.4	53.2
89	69.2	56.6	84.8
182	2.8	2.2	3.4

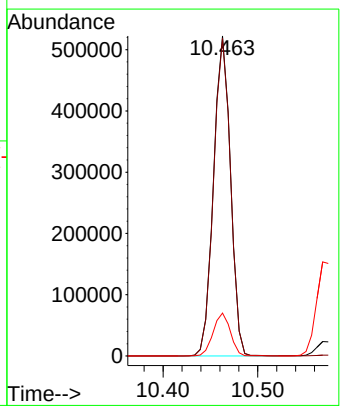


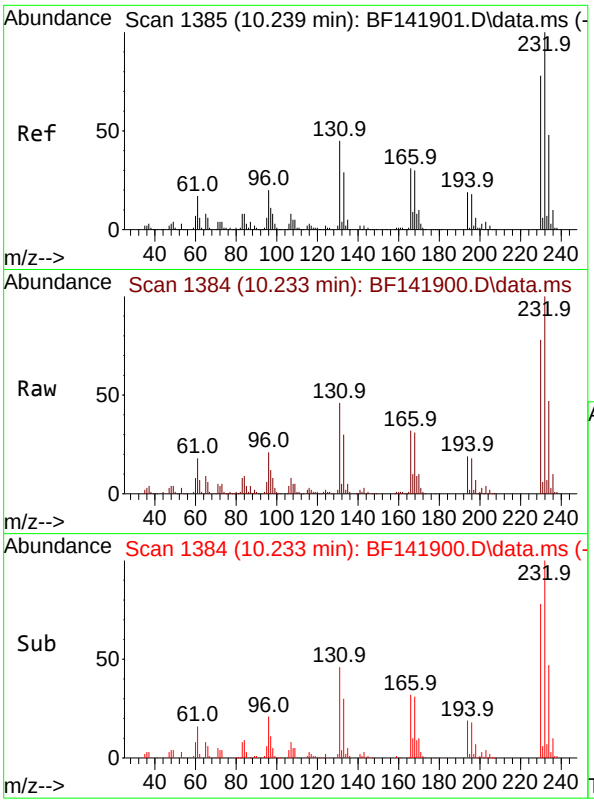


#58
Fluorene
Concen: 21.211 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:166 Resp: 650245

Ion	Ratio	Lower	Upper
166	100		
165	99.2	79.0	118.4
167	13.4	11.0	16.4



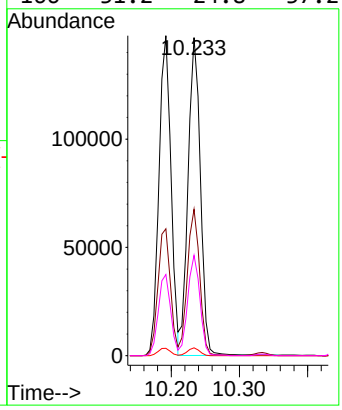


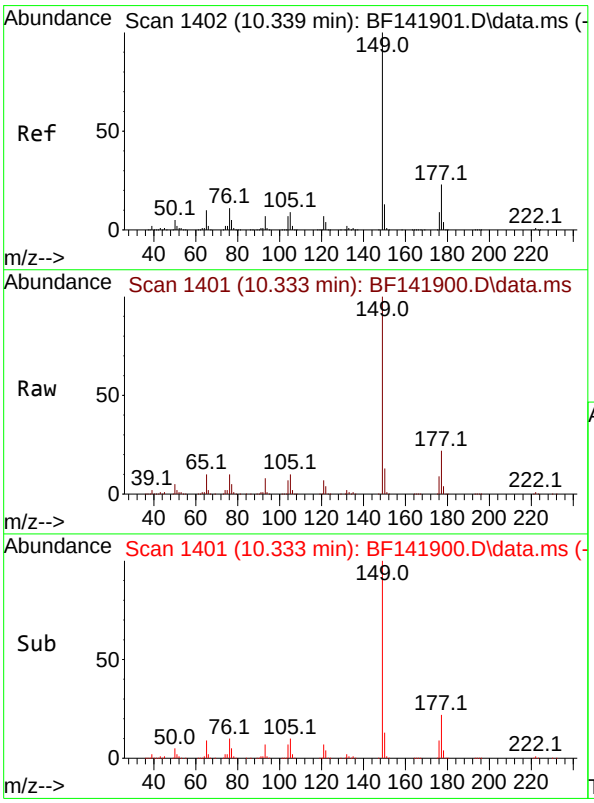
#59
2,3,4,6-Tetrachlorophenol
Concen: 21.272 ng
RT: 10.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 183513

Ion	Ratio	Lower	Upper
232	100		
131	46.0	37.3	55.9
130	2.4	1.9	2.9
166	31.2	24.8	37.2

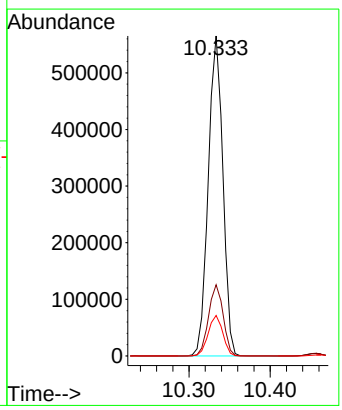


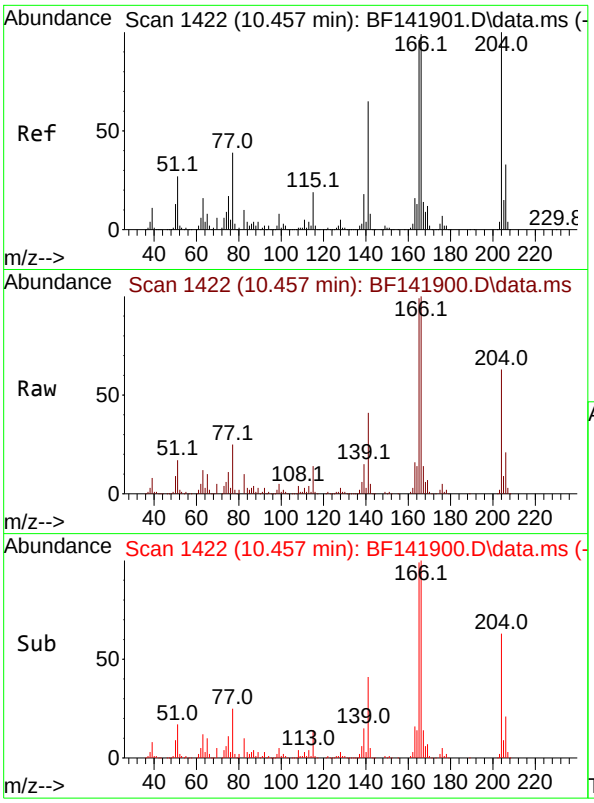


#60
Diethylphthalate
Concen: 21.468 ng
RT: 10.333 min Scan# 1401
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:149 Resp: 704993

Ion	Ratio	Lower	Upper
149	100		
177	22.3	18.0	27.0
150	12.6	10.2	15.4



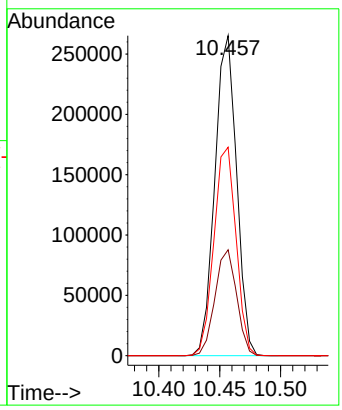


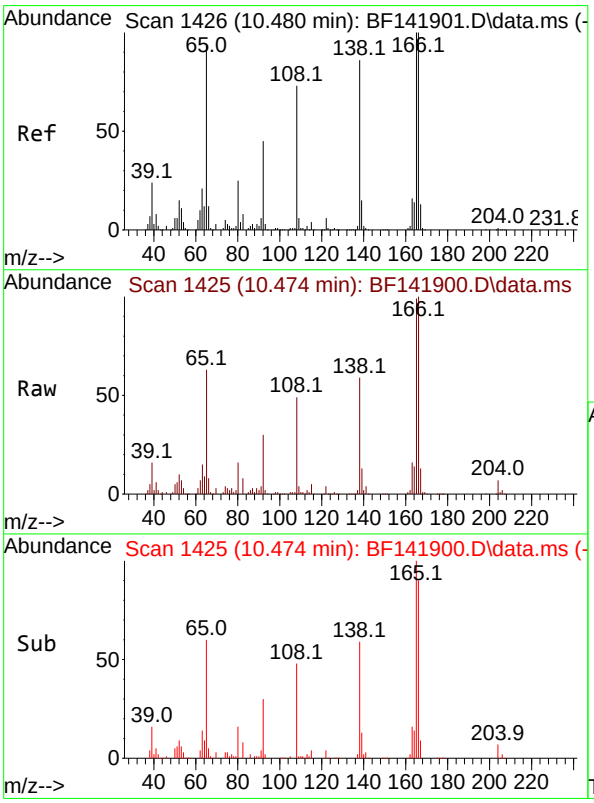
#61
4-Chlorophenyl-phenylether
Concen: 20.698 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 330489

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.8	40.2
141	65.1	52.4	78.6

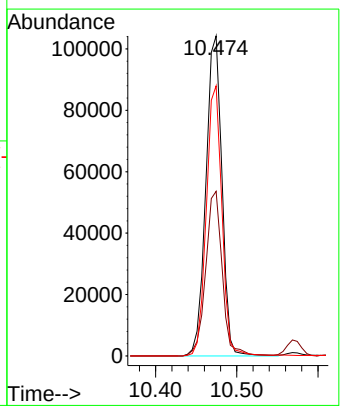


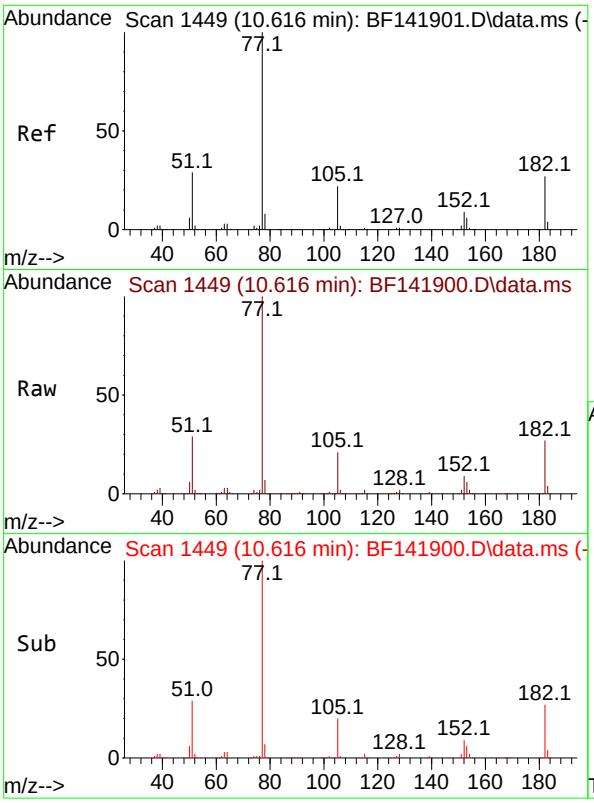


#62
4-Nitroaniline
Concen: 21.125 ng
RT: 10.474 min Scan# 1425
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:138 Resp: 142995

Ion	Ratio	Lower	Upper
138	100		
92	51.4	32.6	72.6
108	84.4	65.0	105.0



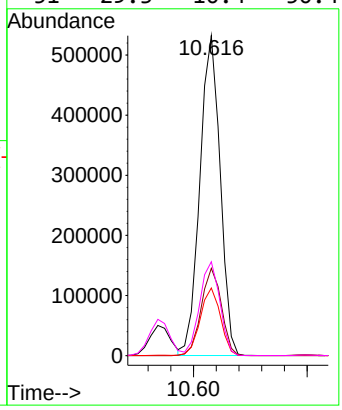


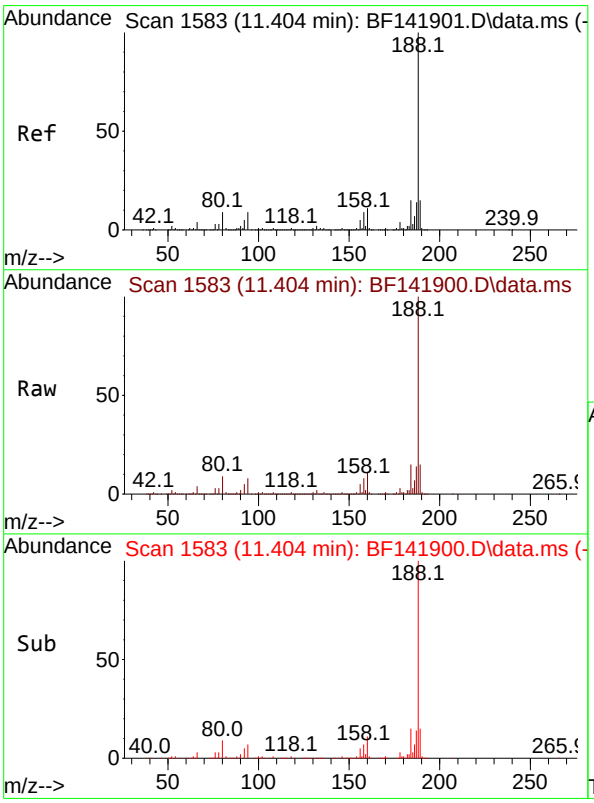
#63
Azobenzene
Concen: 21.665 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 660935

Ion	Ratio	Lower	Upper
77	100		
182	27.3	6.6	46.6
105	21.2	1.3	41.3
51	29.3	10.4	50.4

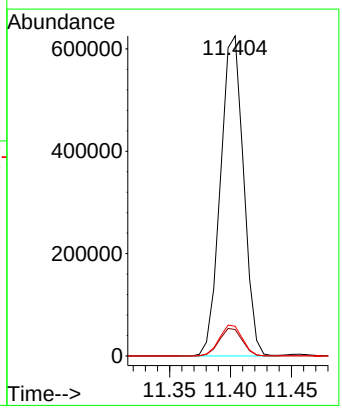


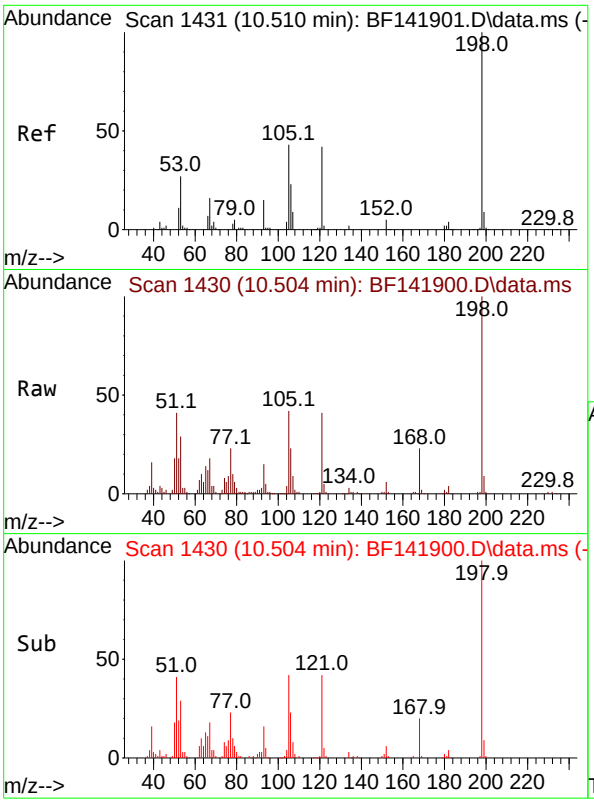


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:188 Resp: 826085

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.8	10.2
80	9.3	7.6	11.4



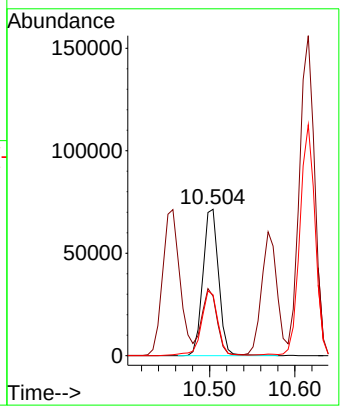


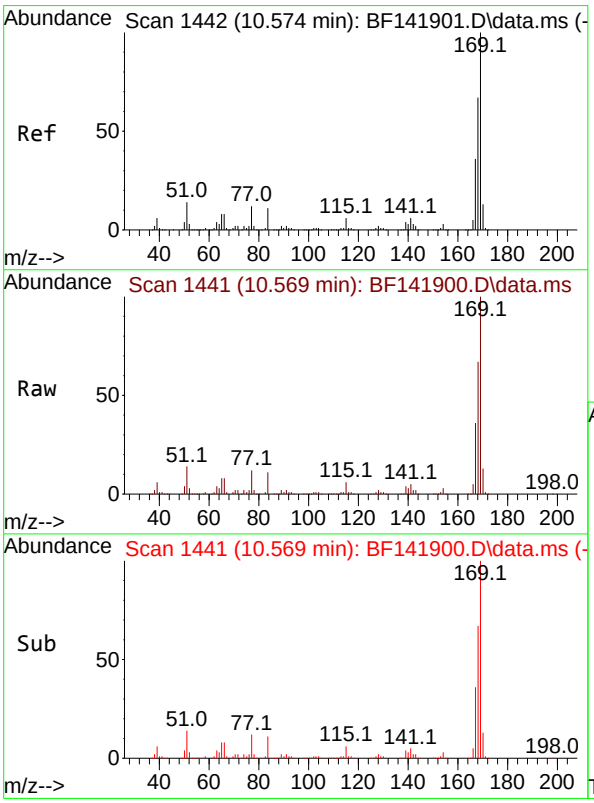
#65
4,6-Dinitro-2-methylphenol
Concen: 18.755 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 91852

Ion	Ratio	Lower	Upper
198	100		
51	40.7	22.3	62.3
105	41.6	23.0	63.0

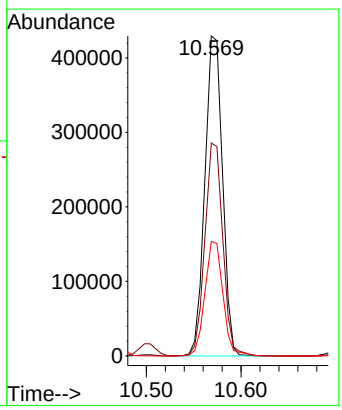


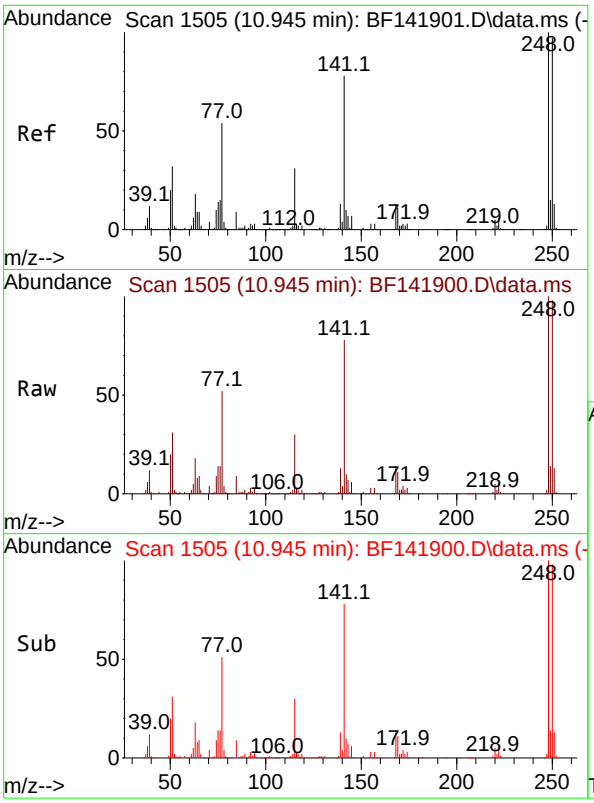


#66
n-Nitrosodiphenylamine
Concen: 20.756 ng
RT: 10.569 min Scan# 1441
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:169 Resp: 553905

Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.7	80.5
167	35.8	29.2	43.8



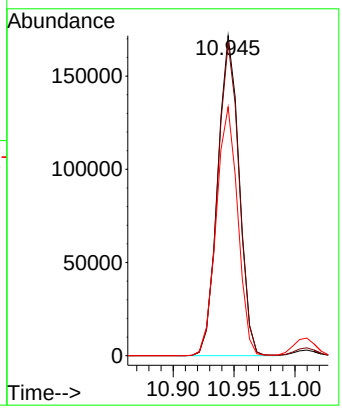


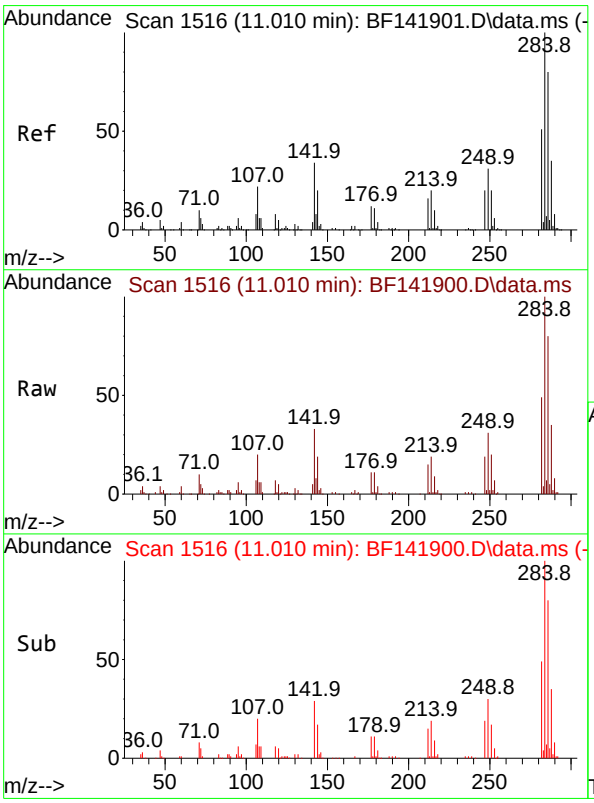
#67
4-Bromophenyl-phenylether
Concen: 20.436 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 210241

Ion	Ratio	Lower	Upper
248	100		
250	97.7	77.8	116.8
141	77.7	62.6	93.8

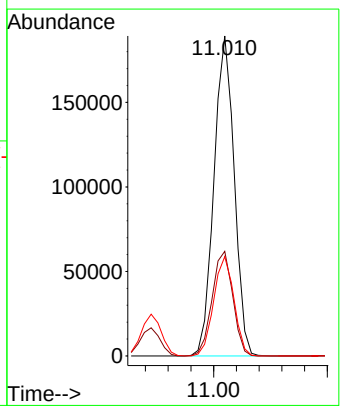


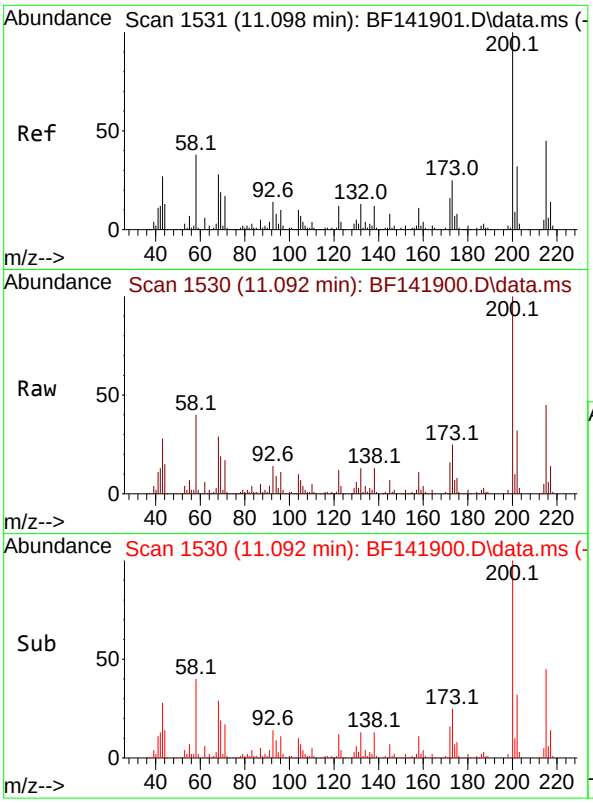


#68
Hexachlorobenzene
Concen: 20.613 ng
RT: 11.010 min Scan# 1516
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:284 Resp: 234399

Ion	Ratio	Lower	Upper
284	100		
142	32.7	27.0	40.6
249	31.1	25.2	37.8



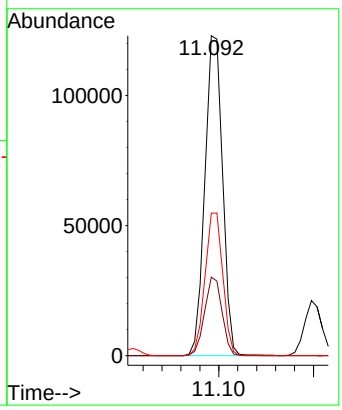


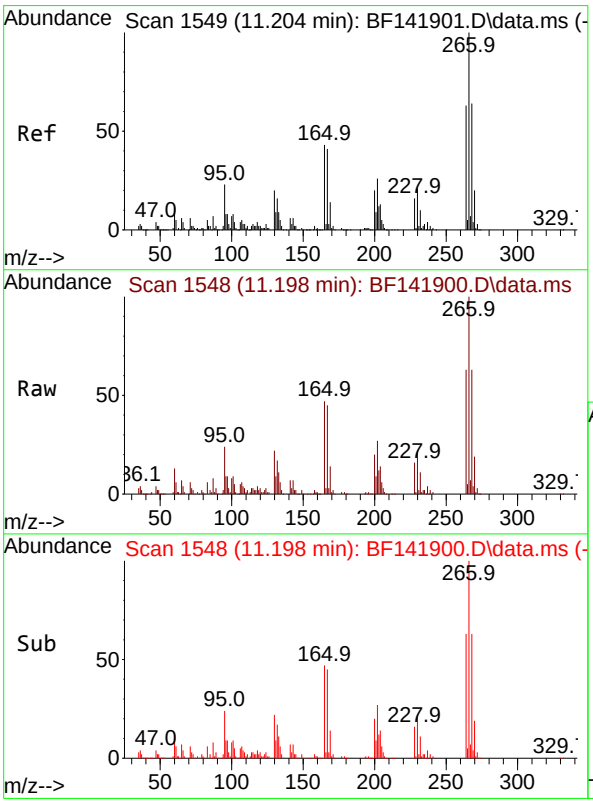
#69
Atrazine
Concen: 24.481 ng
RT: 11.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 159306

Ion	Ratio	Lower	Upper
200	100		
173	24.6	4.7	44.7
215	44.5	25.4	65.4

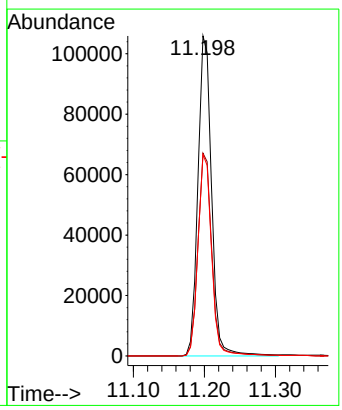


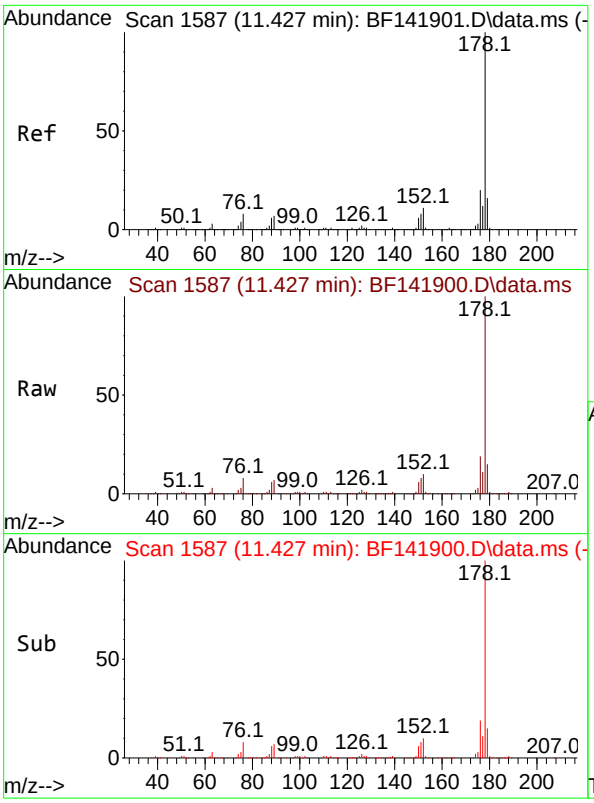


#70
Pentachlorophenol
Concen: 20.227 ng
RT: 11.198 min Scan# 1548
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:266 Resp: 141842

Ion	Ratio	Lower	Upper
266	100		
268	63.4	51.0	76.6
264	62.9	50.2	75.2



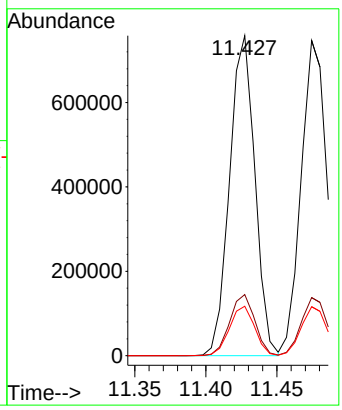


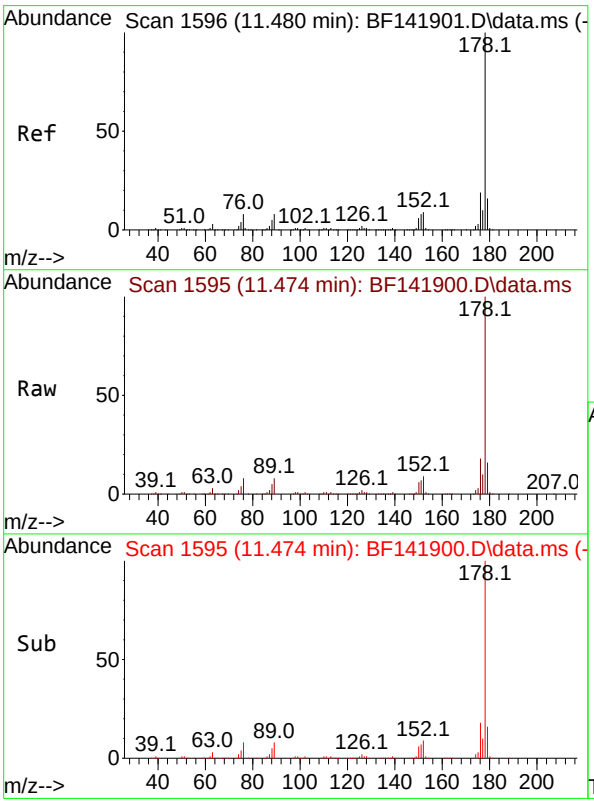
#71
Phenanthrene
Concen: 21.038 ng
RT: 11.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 939782

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.5	12.6	19.0

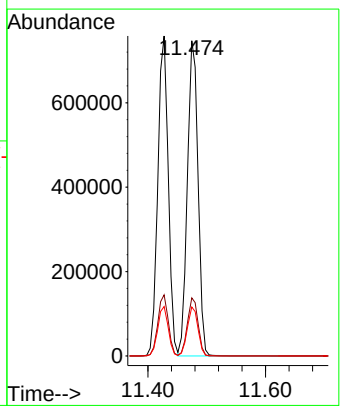


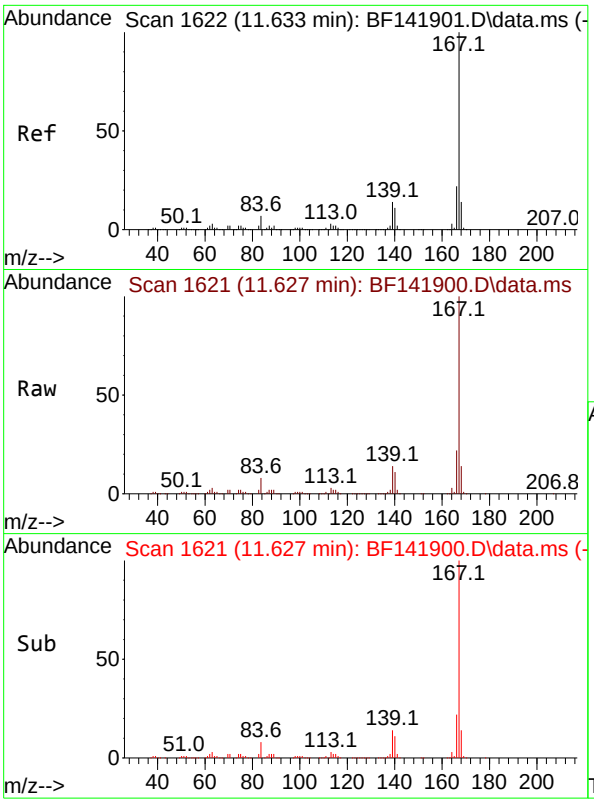


#72
Anthracene
Concen: 20.993 ng
RT: 11.474 min Scan# 1595
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:178 Resp: 940875

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.1	22.7
179	15.5	12.6	19.0



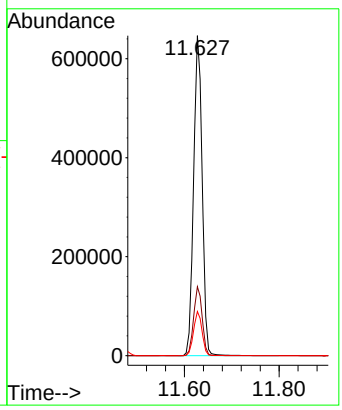


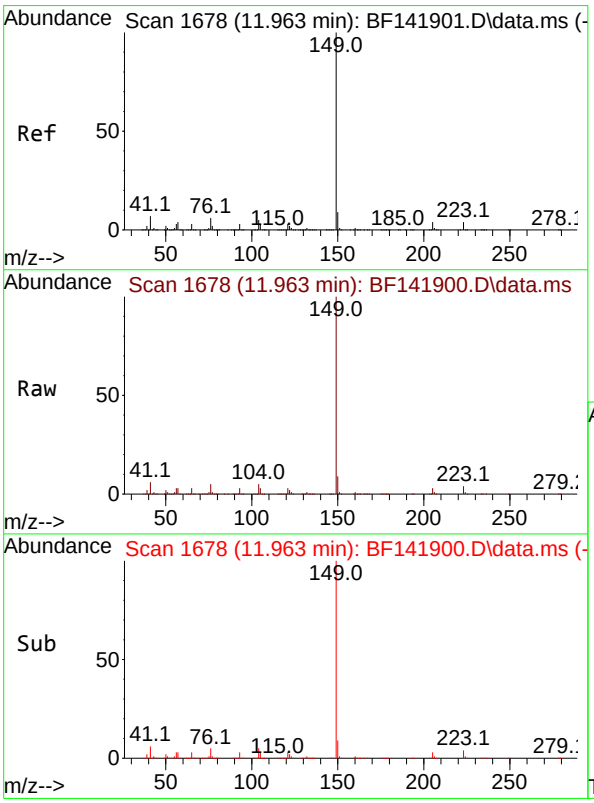
#73
Carbazole
Concen: 21.096 ng
RT: 11.627 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 813998

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.4	26.2
139	13.8	11.0	16.6

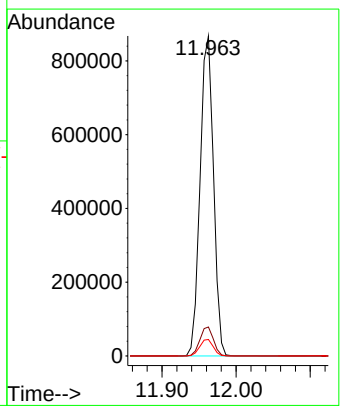


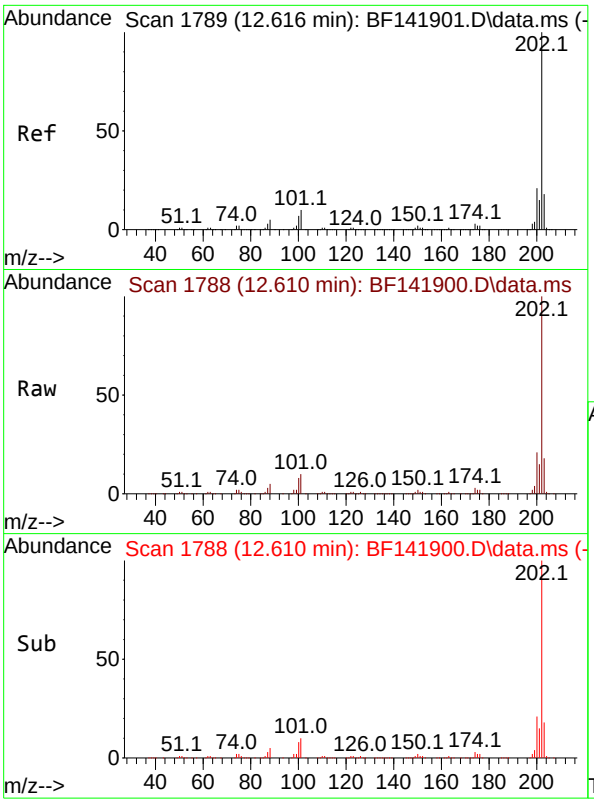


#74
Di-n-butylphthalate
Concen: 21.382 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:149 Resp: 1089304

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.6	11.4
104	5.2	4.4	6.6



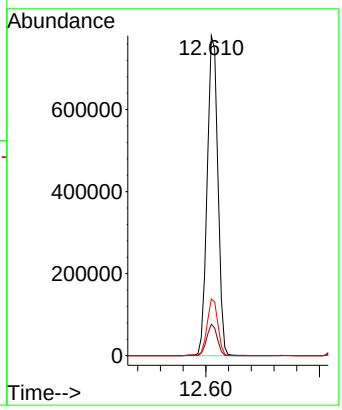


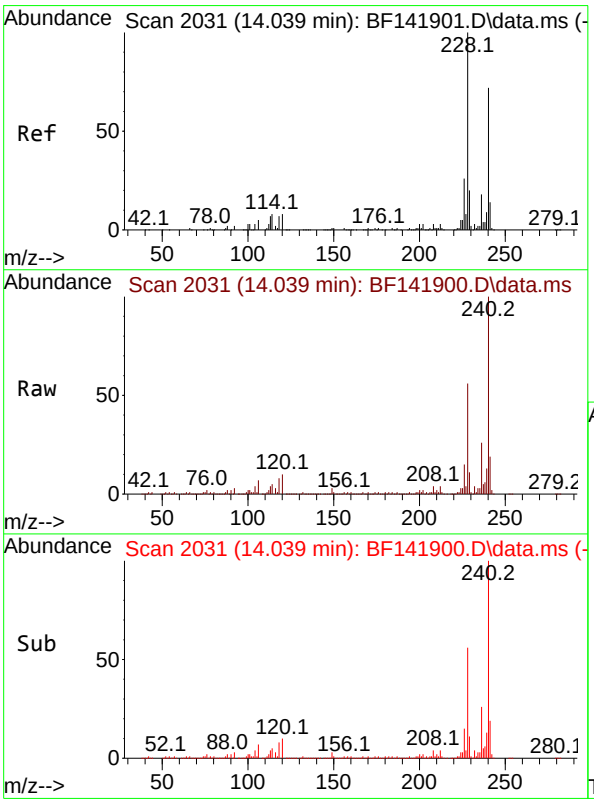
#75
Fluoranthene
Concen: 21.632 ng
RT: 12.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 1014464

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	29.7
203	17.7	0.0	37.8

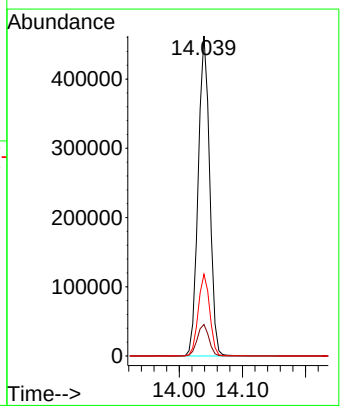


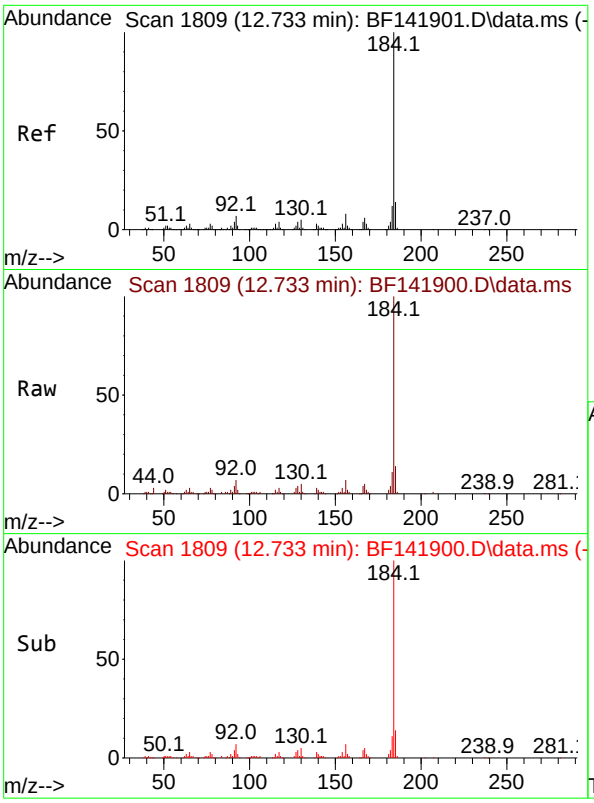


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:240 Resp: 581591

Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.4	12.6
236	25.6	20.5	30.7



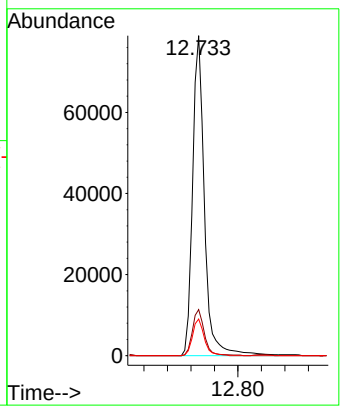


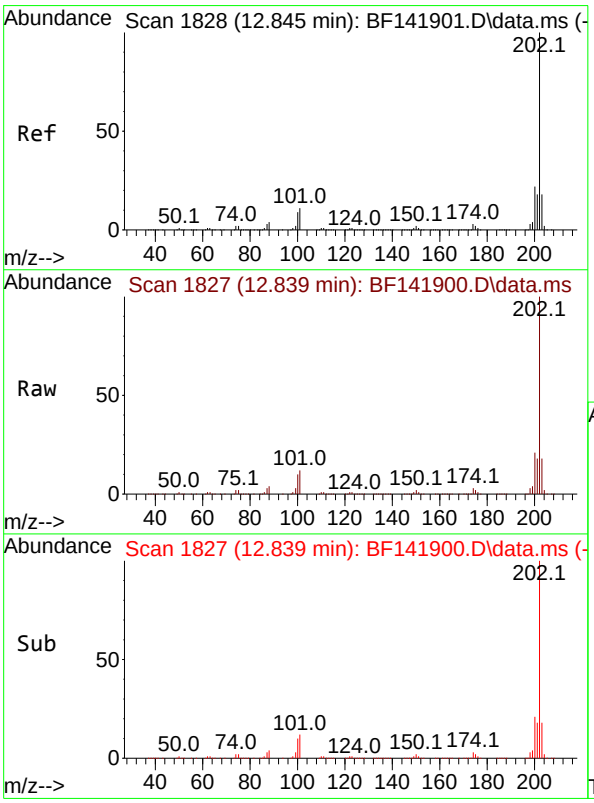
#77
Benzidine
Concen: 13.463 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 110648

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.5	17.3
183	11.5	9.7	14.5

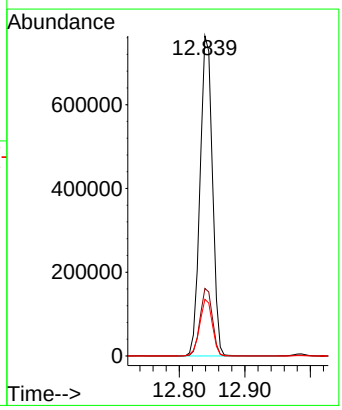


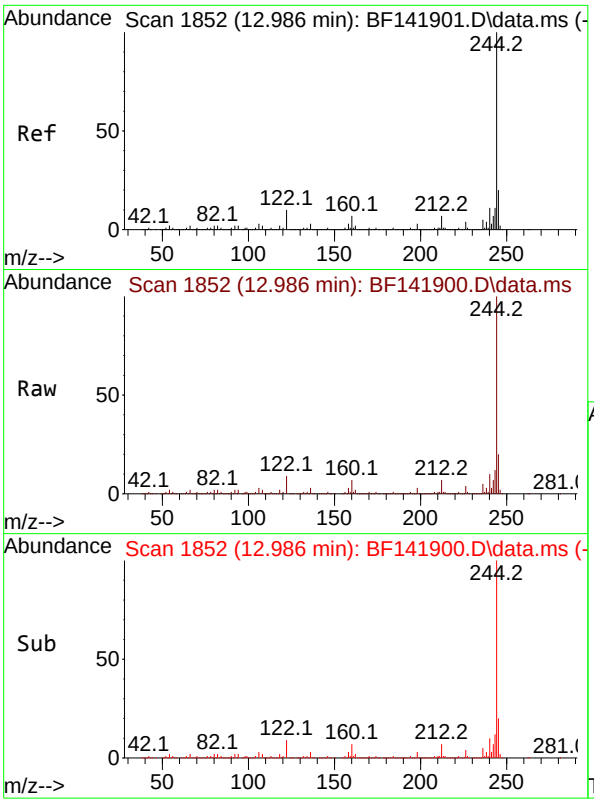


#78
Pyrene
Concen: 20.133 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:202 Resp: 1004157

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.3	25.9
203	17.7	14.4	21.6



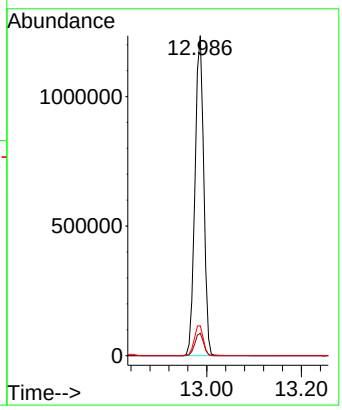


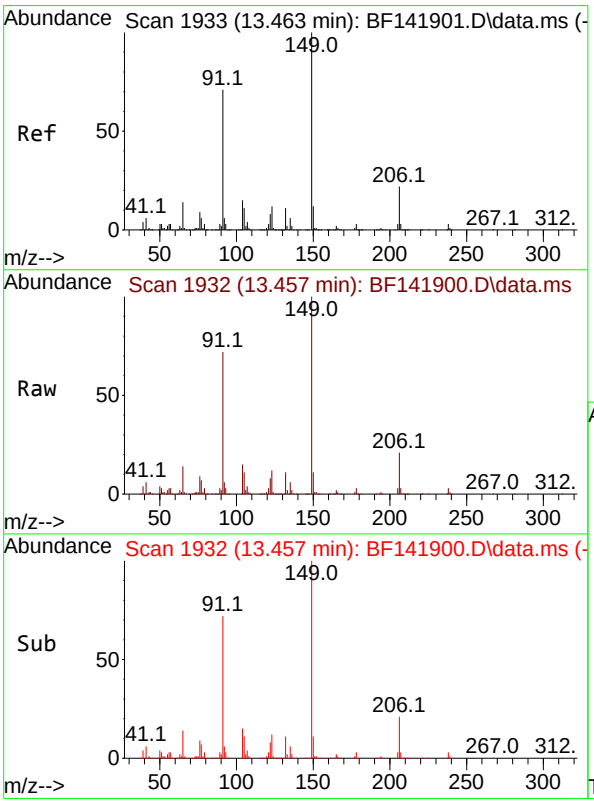
#79
Terphenyl-d14
Concen: 40.218 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 1582373

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	9.4	7.7	11.5

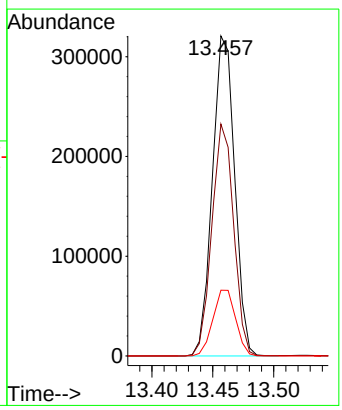


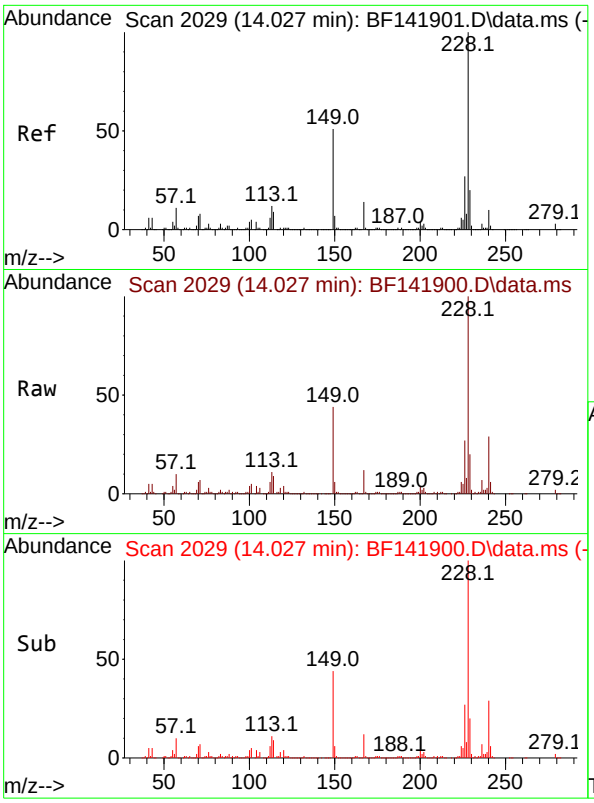


#80
Butylbenzylphthalate
Concen: 20.761 ng
RT: 13.457 min Scan# 1932
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:149 Resp: 408044

Ion	Ratio	Lower	Upper
149	100		
91	72.5	56.5	84.7
206	20.5	17.3	25.9



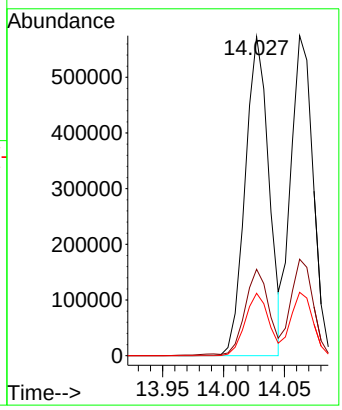


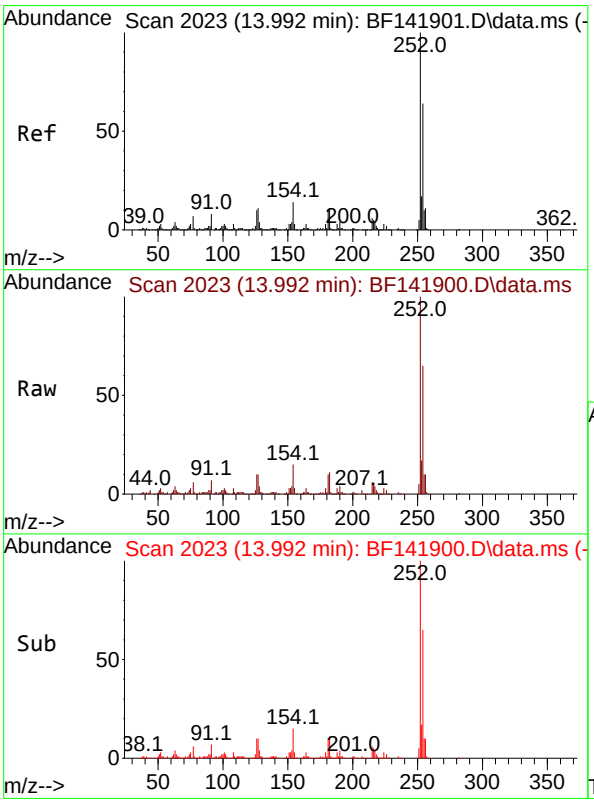
#81
Benzo(a)anthracene
Concen: 20.285 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 776120

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.6	16.0	24.0

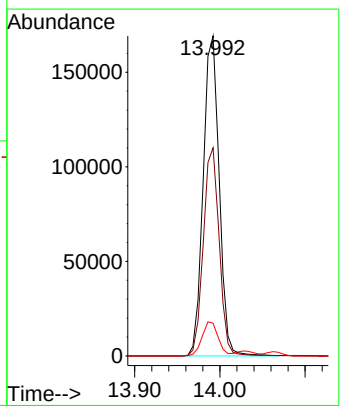


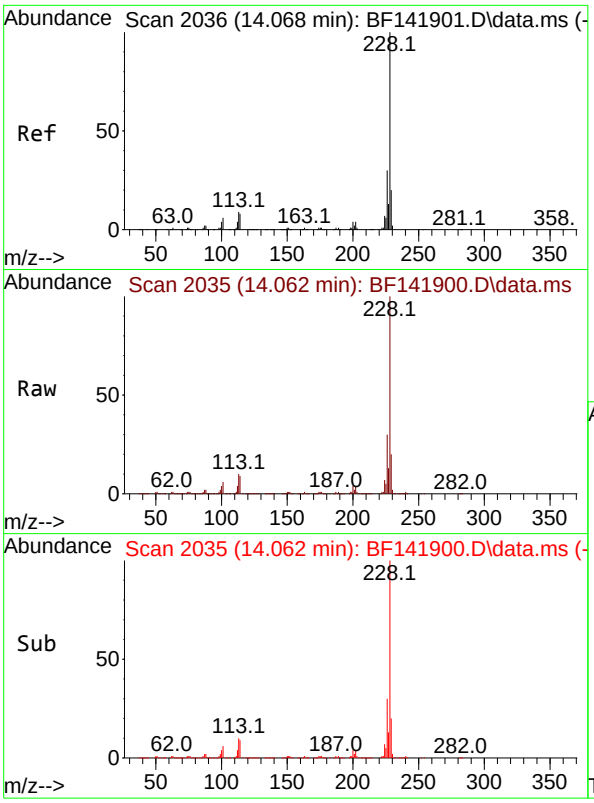


#82
3,3'-Dichlorobenzidine
Concen: 19.999 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:252 Resp: 221168

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.0	76.6
126	10.2	8.4	12.6



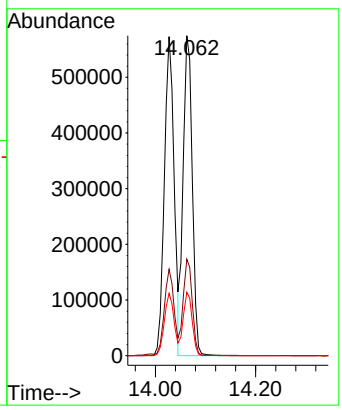


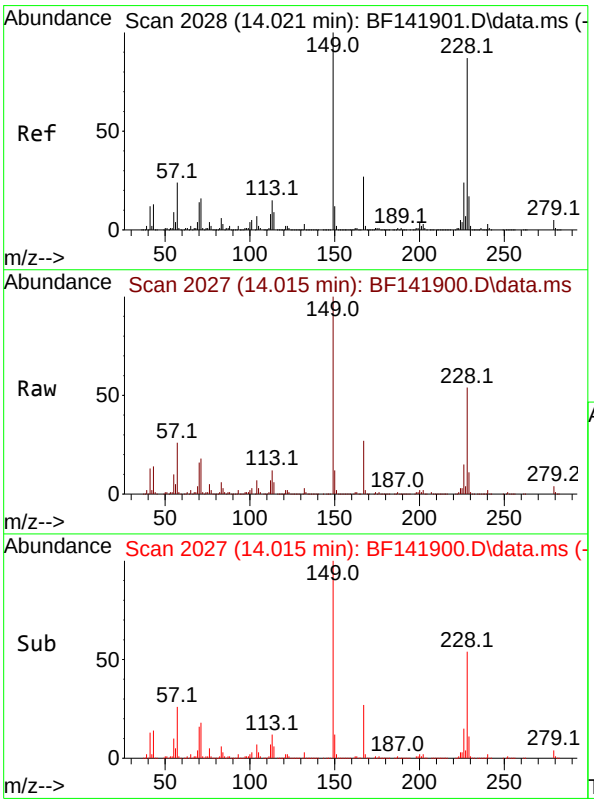
#83
Chrysene
Concen: 21.325 ng
RT: 14.062 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 732966

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.1	36.1
229	19.8	15.7	23.5

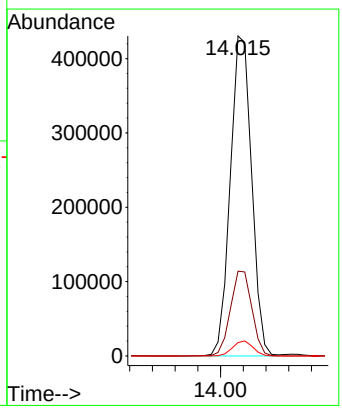


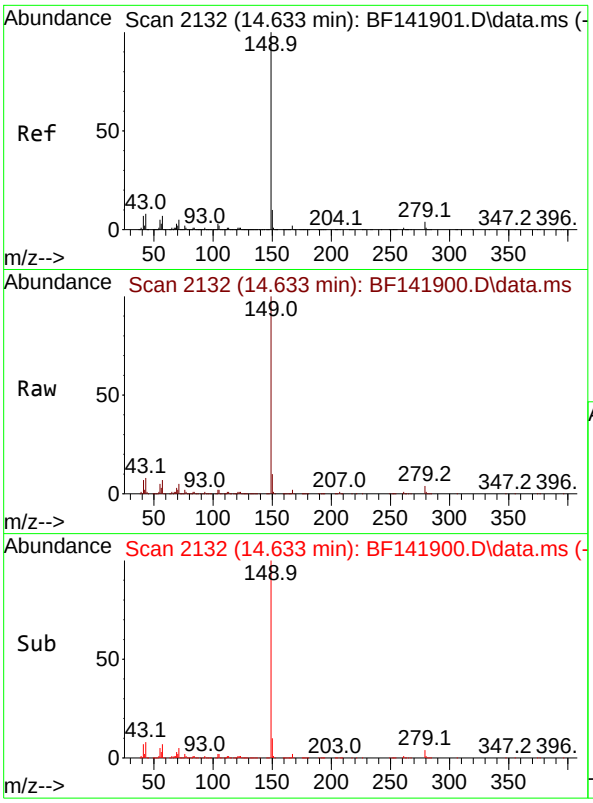


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.845 ng
RT: 14.015 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:149 Resp: 562062

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.0
279	4.2	3.8	5.6



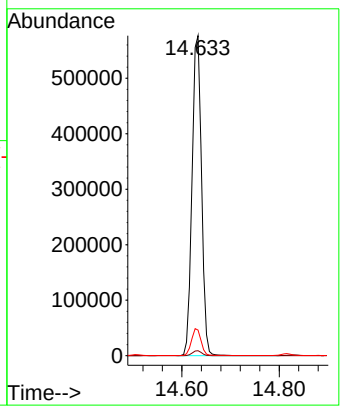


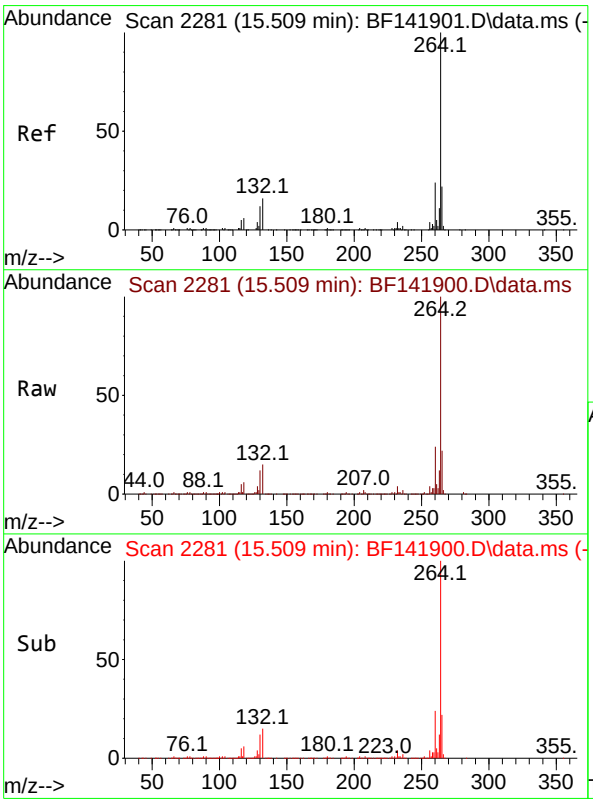
#85
Di-n-octyl phthalate
Concen: 20.740 ng
RT: 14.633 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 778373

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	8.5	6.9	10.3

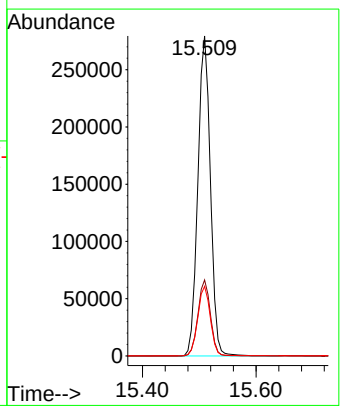


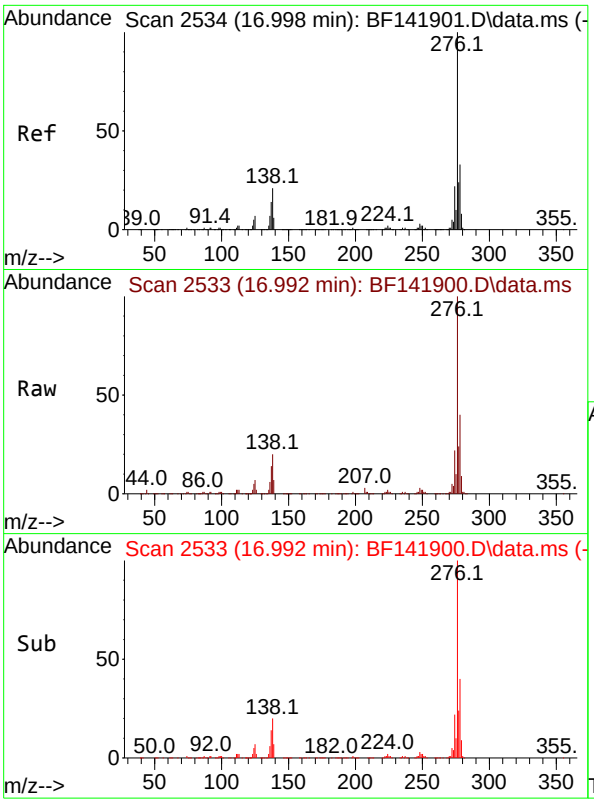


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. 0.000 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:264 Resp: 428960

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.1	28.7
265	21.7	17.5	26.3



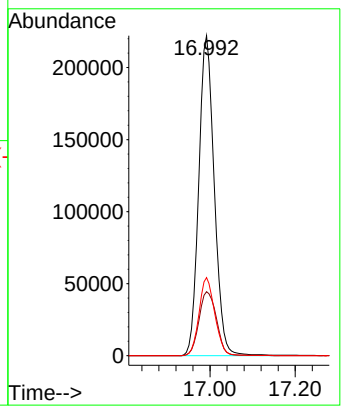


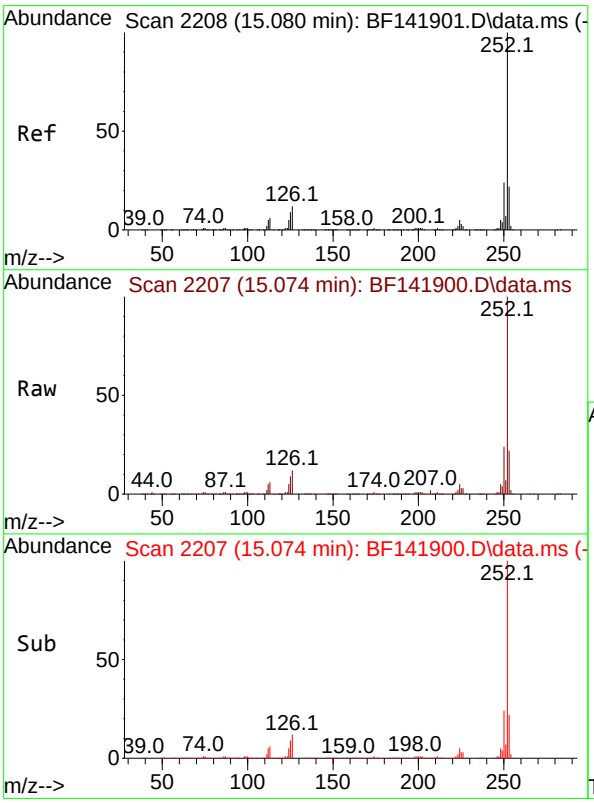
#87
Indeno(1,2,3-cd)pyrene
Concen: 20.163 ng
RT: 16.992 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 560913

Ion	Ratio	Lower	Upper
276	100		
138	22.6	18.4	27.6
277	24.9	20.3	30.5

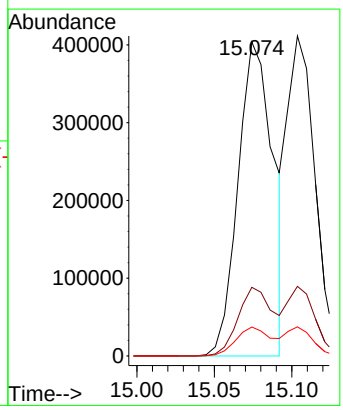


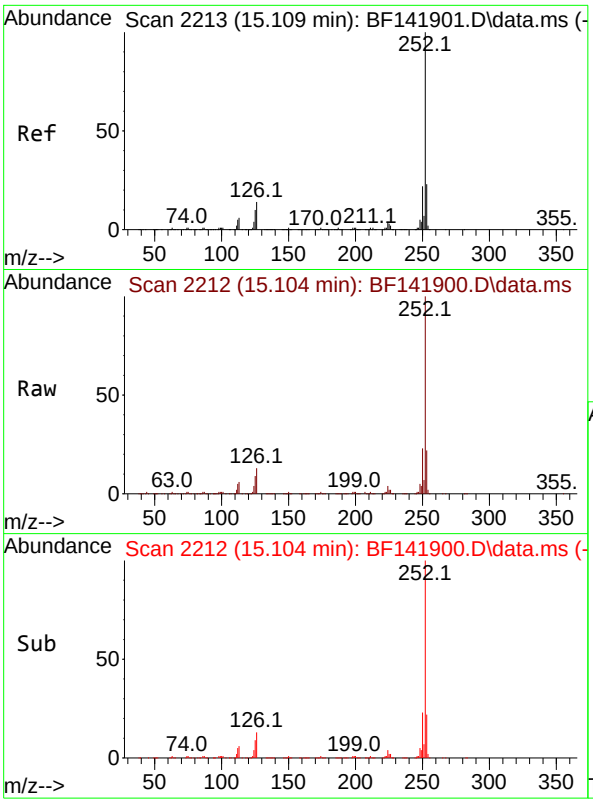


#88
Benzo(b)fluoranthene
Concen: 21.886 ng
RT: 15.074 min Scan# 2207
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:252 Resp: 636808

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	9.2	7.0	10.4



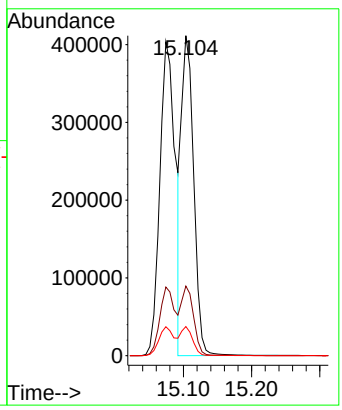


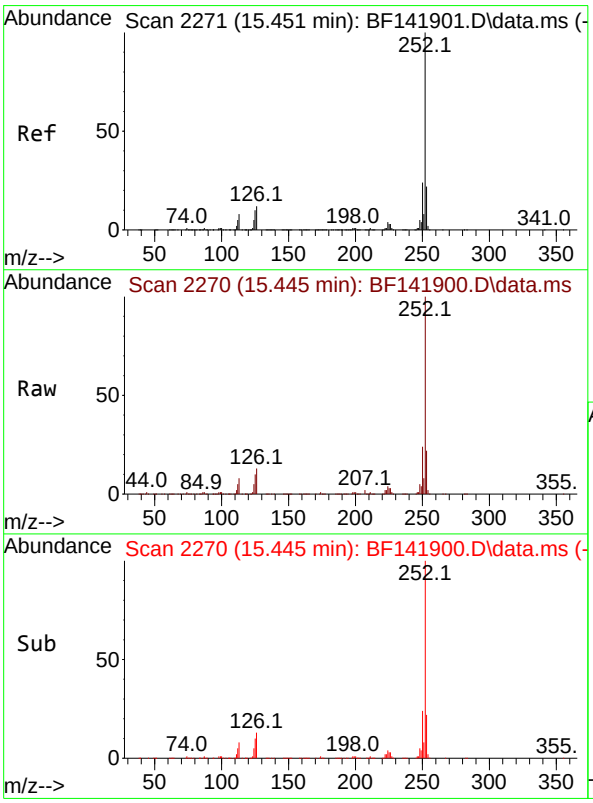
#89
Benzo(k)fluoranthene
Concen: 20.196 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 513311

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	9.1	7.2	10.8

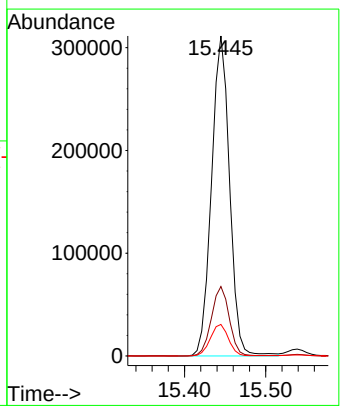


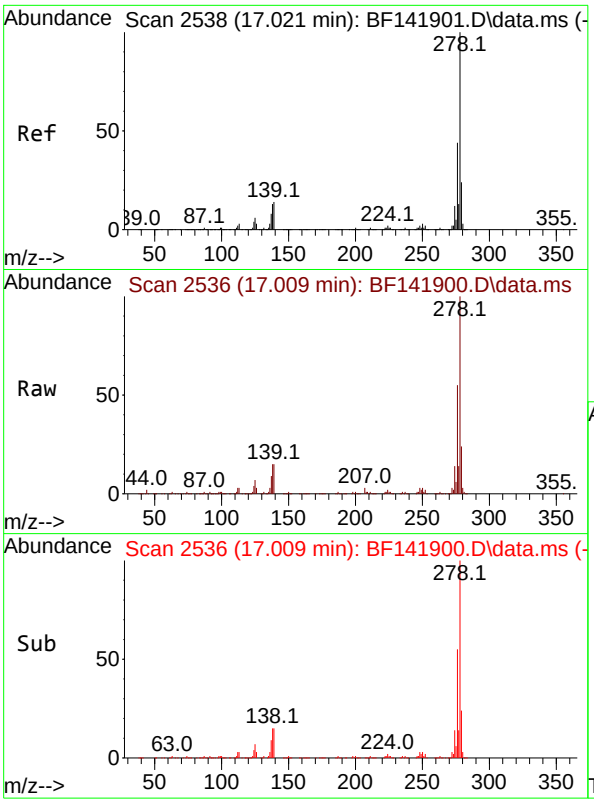


#90
Benzo(a)pyrene
Concen: 20.991 ng
RT: 15.445 min Scan# 2270
Delta R.T. -0.006 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:252 Resp: 481683

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	9.8	7.8	11.8



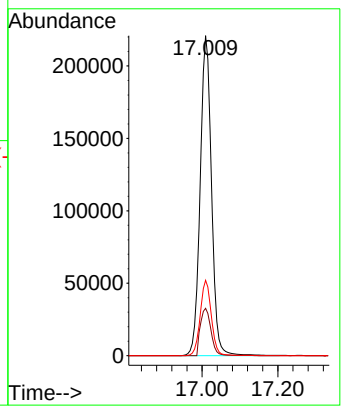


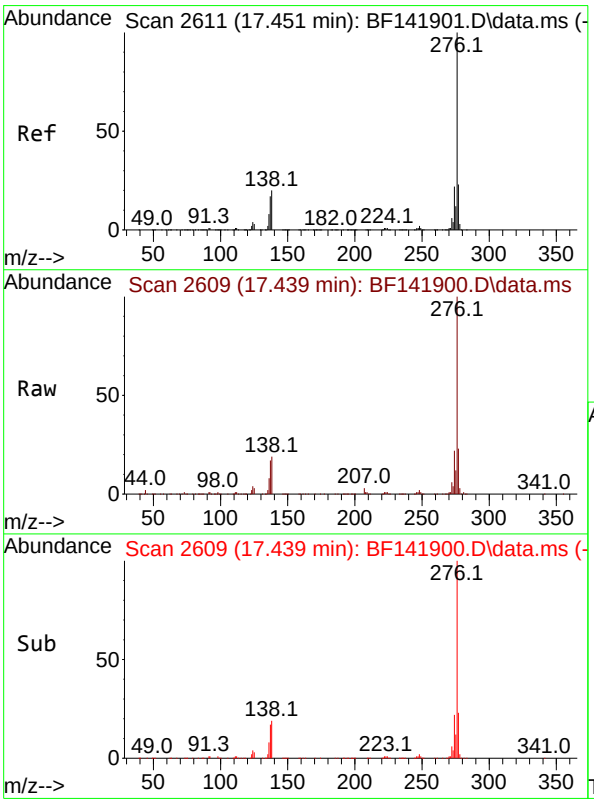
#91
Dibenzo(a,h)anthracene
Concen: 20.046 ng
RT: 17.009 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 460109

Ion	Ratio	Lower	Upper
278	100		
139	14.8	11.4	17.2
279	23.6	18.8	28.2

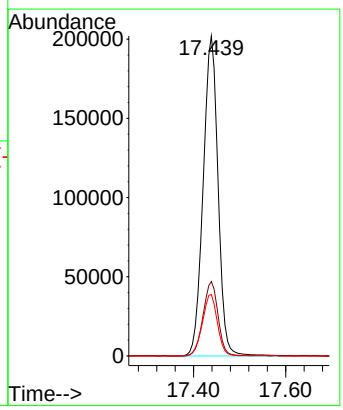




#92
Benzo(g,h,i)perylene
Concen: 19.987 ng
RT: 17.439 min Scan# 2609
Delta R.T. -0.012 min
Lab File: BF141900.D
Acq: 10 Mar 2025 12:29

Tgt Ion:276 Resp: 455034

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.7	28.1
138	19.2	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141901.D
Acq On : 10 Mar 2025 12:58
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Mar 10 15:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	222904	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	874166	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	493744	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	839154	20.000	ng	0.00
76) Chrysene-d12	14.039	240	569865	20.000	ng	0.00
86) Perylene-d12	15.509	264	469286	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	1023722	76.628	ng	0.00
7) Phenol-d6	6.504	99	1285980	75.580	ng	0.00
23) Nitrobenzene-d5	7.445	82	1216280	77.983	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	493945	78.949	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2475837	76.357	ng	0.00
79) Terphenyl-d14	12.986	244	2908357	75.440	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.675	88	224795	40.148	ng	100
3) Pyridine	3.440	79	544434	39.565	ng	100
4) n-Nitrosodimethylamine	3.393	42	259739	39.710	ng	100
6) Aniline	6.545	93	653060	38.879	ng	100
8) 2-Chlorophenol	6.669	128	561230	37.902	ng	100
9) Benzaldehyde	6.434	77	346818	36.467	ng	100
10) Phenol	6.522	94	684724	38.141	ng	100
11) bis(2-Chloroethyl)ether	6.616	93	510214	37.932	ng	100
12) 1,3-Dichlorobenzene	6.822	146	611938	38.242	ng	100
13) 1,4-Dichlorobenzene	6.898	146	620951	38.355	ng	100
14) 1,2-Dichlorobenzene	7.051	146	581043	38.111	ng	100
15) Benzyl Alcohol	7.022	79	528444	38.371	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	607522	37.476	ng	100
17) 2-Methylphenol	7.128	107	449433	38.190	ng	100
18) Hexachloroethane	7.392	117	230613	37.993	ng	100
19) n-Nitroso-di-n-propyla...	7.298	70	407069	37.223	ng	100
20) 3+4-Methylphenols	7.281	107	576902	38.219	ng	100
22) Acetophenone	7.292	105	804747	38.376	ng	100
24) Nitrobenzene	7.463	77	604738	39.106	ng	100
25) Isophorone	7.704	82	1049049	38.097	ng	100
26) 2-Nitrophenol	7.781	139	305349	40.295	ng	100
27) 2,4-Dimethylphenol	7.810	122	403621	38.671	ng	100
28) bis(2-Chloroethoxy)met...	7.910	93	650344	37.702	ng	100
29) 2,4-Dichlorophenol	8.016	162	500239	38.619	ng	100
30) 1,2,4-Trichlorobenzene	8.104	180	541182	37.870	ng	100
31) Naphthalene	8.186	128	1719643	38.400	ng	100
32) Benzoic acid	7.928	122	363328	39.827	ng	100
33) 4-Chloroaniline	8.228	127	613535	38.824	ng	100
34) Hexachlorobutadiene	8.304	225	355740	38.285	ng	100
35) Caprolactam	8.604	113	147056	37.335	ng	100
36) 4-Chloro-3-methylphenol	8.704	107	555328	38.549	ng	100
37) 2-Methylnaphthalene	8.875	142	1141228	37.983	ng	100
38) 1-Methylnaphthalene	8.975	142	1089576	37.447	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	584322	38.814	ng	100
41) Hexachlorocyclopentadiene	9.028	237	246666	41.523	ng	100
43) 2,4,6-Trichlorophenol	9.145	196	392696	40.014	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141901.D
Acq On : 10 Mar 2025 12:58
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Mar 10 15:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

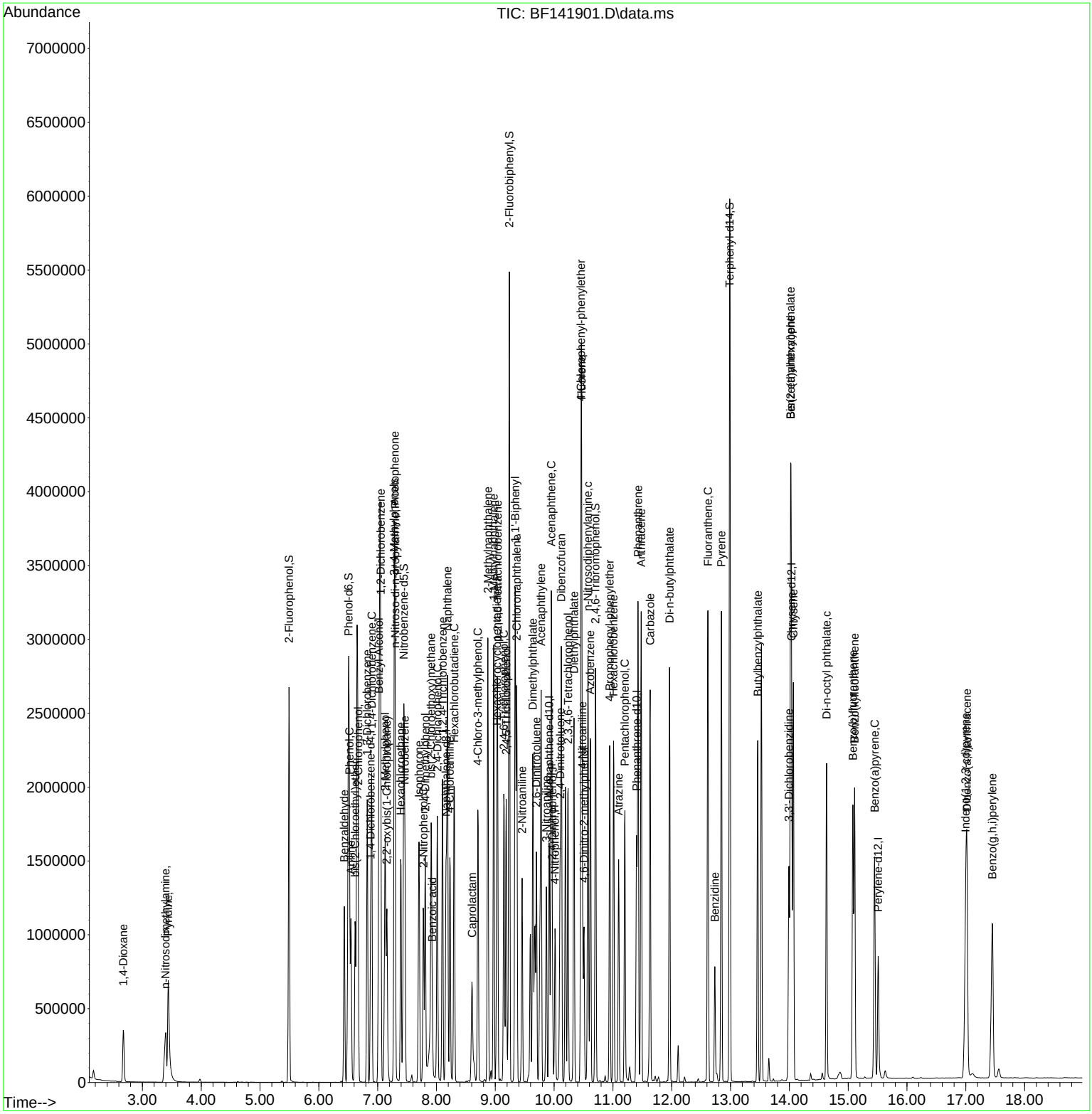
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	384539	38.566	ng	100
46) 1,1'-Biphenyl	9.339	154	1436040	38.362	ng	100
47) 2-Chloronaphthalene	9.363	162	1077099	38.609	ng	100
48) 2-Nitroaniline	9.457	65	318068	39.690	ng	100
49) Acenaphthylene	9.780	152	1614250	39.029	ng	100
50) Dimethylphthalate	9.639	163	1312856	38.270	ng	100
51) 2,6-Dinitrotoluene	9.698	165	281695	39.486	ng	100
52) Acenaphthene	9.951	154	1132087	38.764	ng	100
53) 3-Nitroaniline	9.869	138	289208	39.481	ng	100
54) 2,4-Dinitrophenol	9.969	184	140024	38.116	ng	100
55) Dibenzofuran	10.122	168	1593454	38.266	ng	100
56) 4-Nitrophenol	10.016	139	227070	41.266	ng	100
57) 2,4-Dinitrotoluene	10.104	165	370337	39.437	ng	100
58) Fluorene	10.469	166	1213316	37.742	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	354863	39.225	ng	100
60) Diethylphthalate	10.339	149	1319116	38.304	ng	100
61) 4-Chlorophenyl-phenyle...	10.457	204	635445	37.950	ng	100
62) 4-Nitroaniline	10.480	138	284615	40.097	ng	100
63) Azobenzene	10.616	77	1229473	38.432	ng	100
65) 4,6-Dinitro-2-methylph...	10.510	198	203106	40.827	ng	100
66) n-Nitrosodiphenylamine	10.574	169	1041349	38.415	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	409602	39.195	ng	100
68) Hexachlorobenzene	11.010	284	452189	39.146	ng	100
69) Atrazine	11.098	200	275084	41.614	ng	100
70) Pentachlorophenol	11.204	266	297893	41.818	ng	100
71) Phenanthrene	11.427	178	1741309	38.373	ng	100
72) Anthracene	11.480	178	1756035	38.571	ng	100
73) Carbazole	11.633	167	1524663	38.898	ng	100
74) Di-n-butylphthalate	11.963	149	1975625	38.175	ng	100
75) Fluoranthene	12.616	202	1860202	39.049	ng	100
77) Benzidine	12.733	184	410026	50.915	ng	100
78) Pyrene	12.845	202	1835917	37.567	ng	100
80) Butylbenzylphthalate	13.463	149	746613	38.769	ng	100
81) Benzo(a)anthracene	14.027	228	1451332	38.713	ng	100
82) 3,3'-Dichlorobenzidine	13.992	252	423835	39.114	ng	100
83) Chrysene	14.068	228	1294538	38.439	ng	100
84) Bis(2-ethylhexyl)phtha...	14.021	149	1029987	38.985	ng	100
85) Di-n-octyl phthalate	14.633	149	1441248	39.193	ng	100
87) Indeno(1,2,3-cd)pyrene	16.998	276	1207616	39.681	ng	100
88) Benzo(b)fluoranthene	15.080	252	1135547	35.673	ng	100
89) Benzo(k)fluoranthene	15.109	252	1130615	40.661	ng	100
90) Benzo(a)pyrene	15.451	252	972220	38.727	ng	100
91) Dibenzo(a,h)anthracene	17.021	278	1002747	39.933	ng	100
92) Benzo(g,h,i)perylene	17.451	276	999947	40.149	ng	100

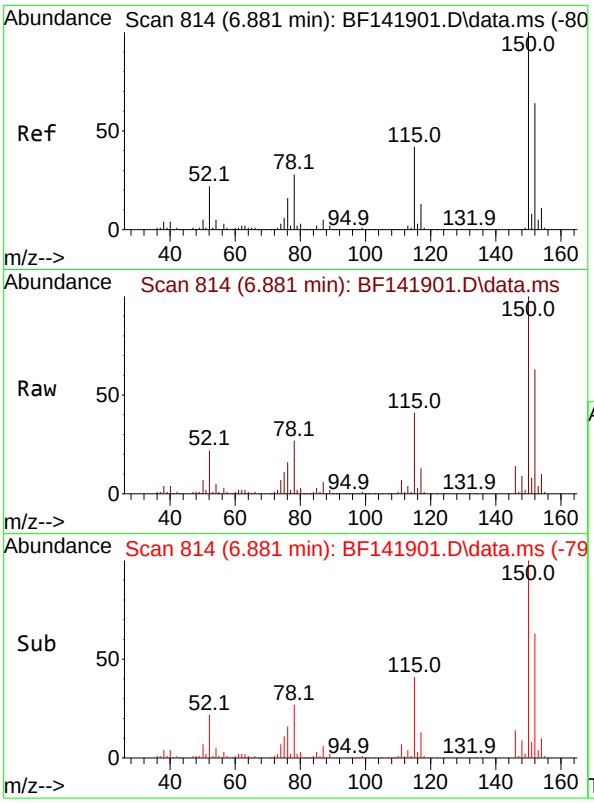
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141901.D
Acq On : 10 Mar 2025 12:58
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Mar 10 15:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration



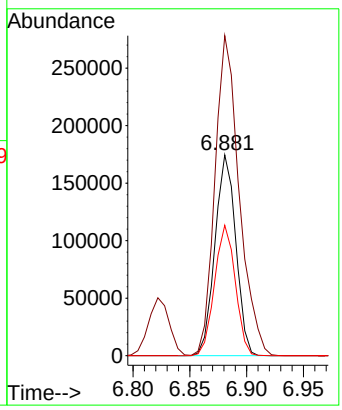


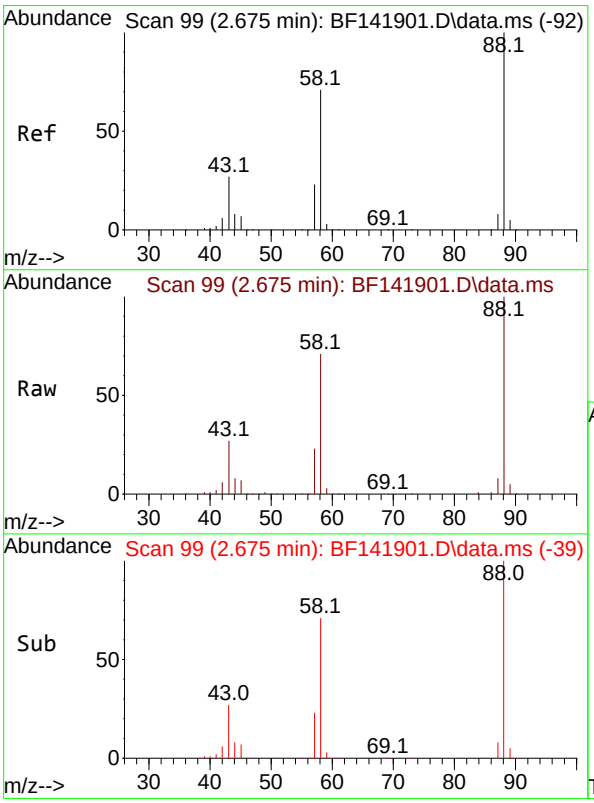
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 222904

Ion	Ratio	Lower	Upper
152	100		
150	159.3	127.4	191.2
115	64.9	51.9	77.9

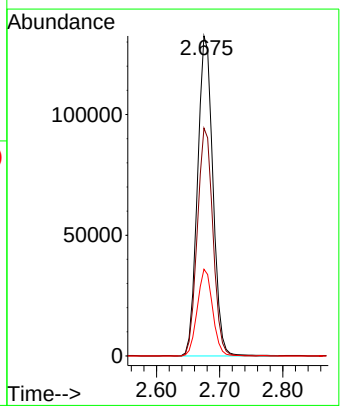


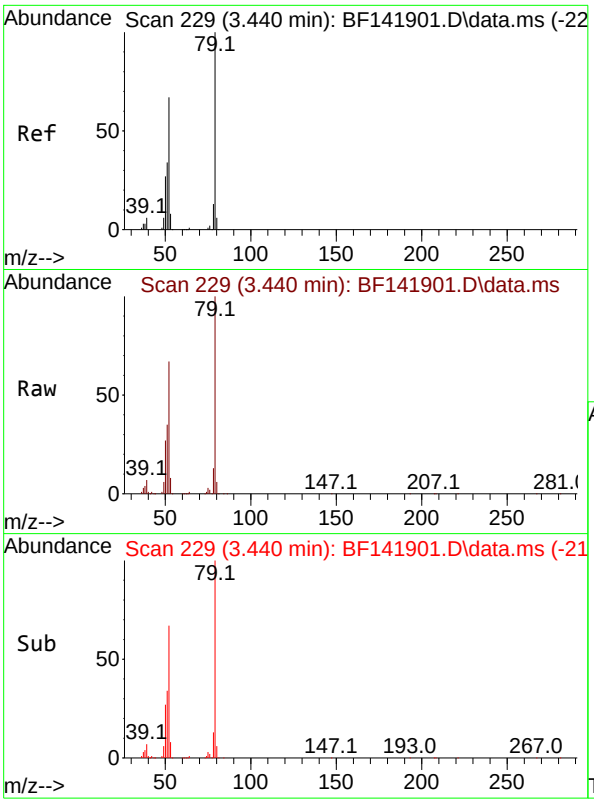


#2
1,4-Dioxane
Concen: 40.148 ng
RT: 2.675 min Scan# 99
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion: 88 Resp: 224795

Ion	Ratio	Lower	Upper
88	100		
58	71.8	57.4	86.2
43	26.9	21.5	32.3



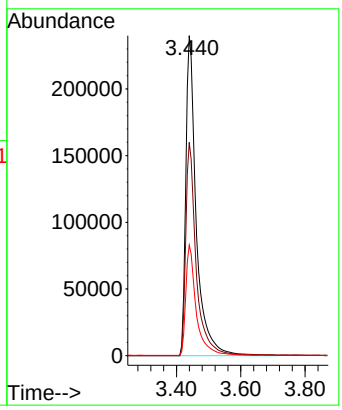


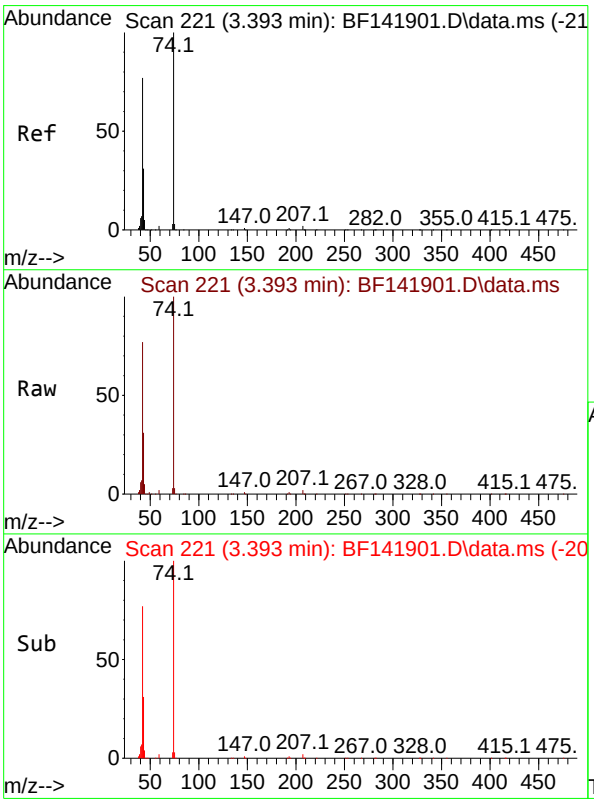
#3
Pyridine
Concen: 39.565 ng
RT: 3.440 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 544434

Ion	Ratio	Lower	Upper
79	100		
52	66.6	53.3	79.9
51	34.5	27.6	41.4

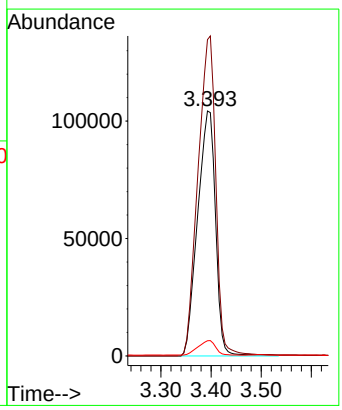


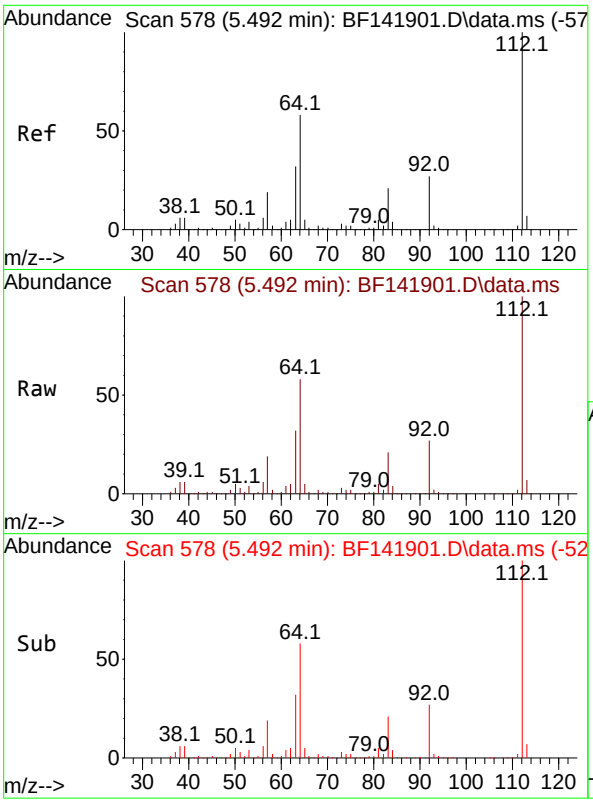


#4
n-Nitrosodimethylamine
Concen: 39.710 ng
RT: 3.393 min Scan# 221
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion: 42 Resp: 259739

Ion	Ratio	Lower	Upper
42	100		
74	129.2	103.4	155.0
44	6.2	5.0	7.4



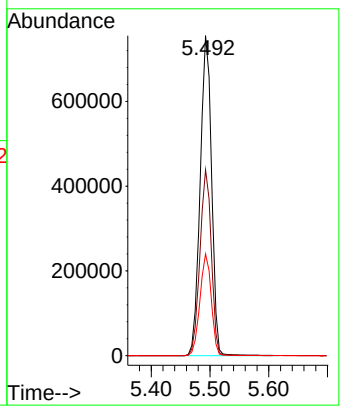


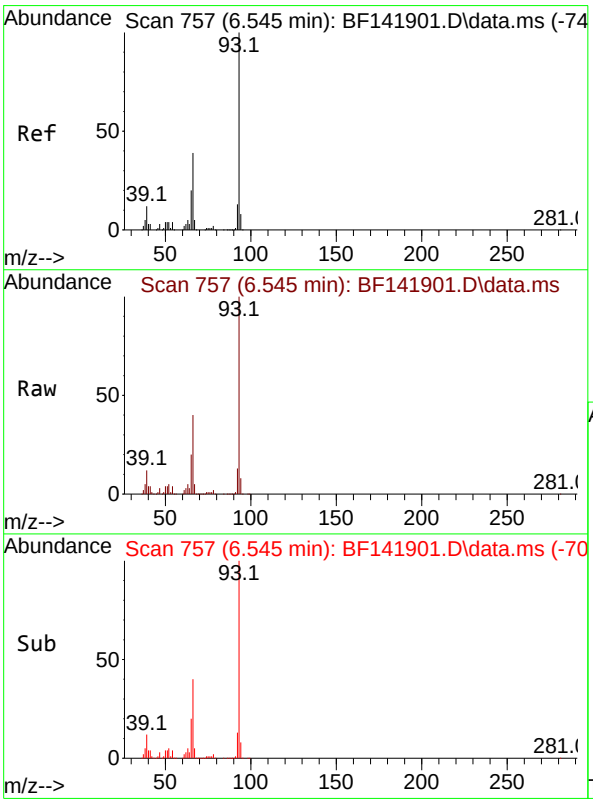
#5
2-Fluorophenol
Concen: 76.628 ng
RT: 5.492 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 1023722

Ion	Ratio	Lower	Upper
112	100		
64	58.1	46.5	69.7
63	31.8	25.4	38.2

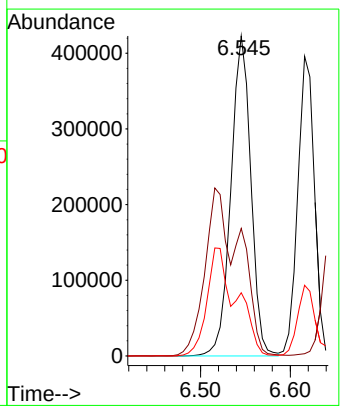


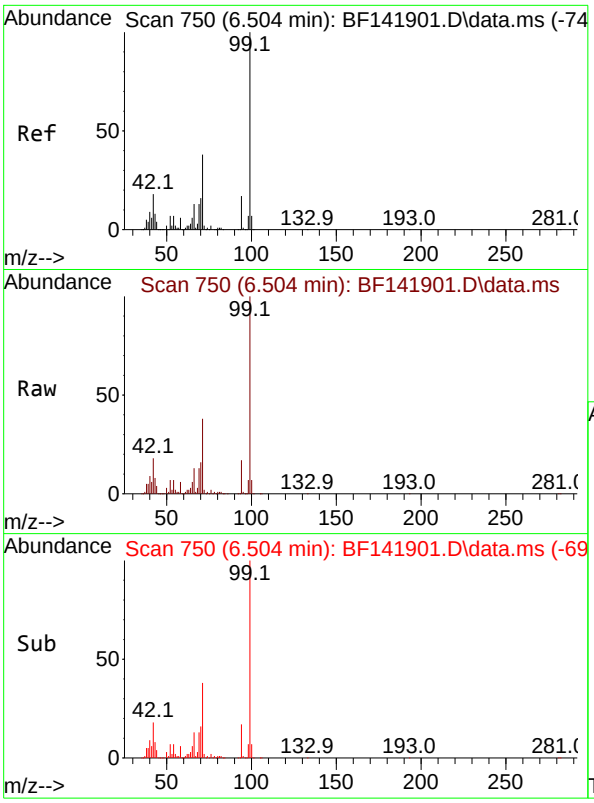


#6
Aniline
Concen: 38.879 ng
RT: 6.545 min Scan# 757
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion: 93 Resp: 653060

Ion	Ratio	Lower	Upper
93	100		
66	39.9	31.9	47.9
65	19.7	15.8	23.6



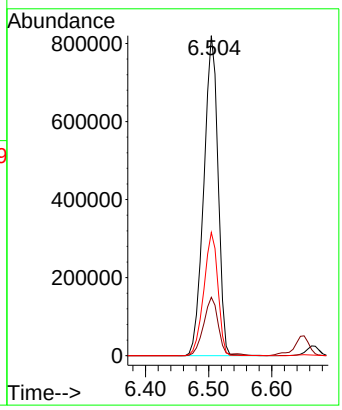


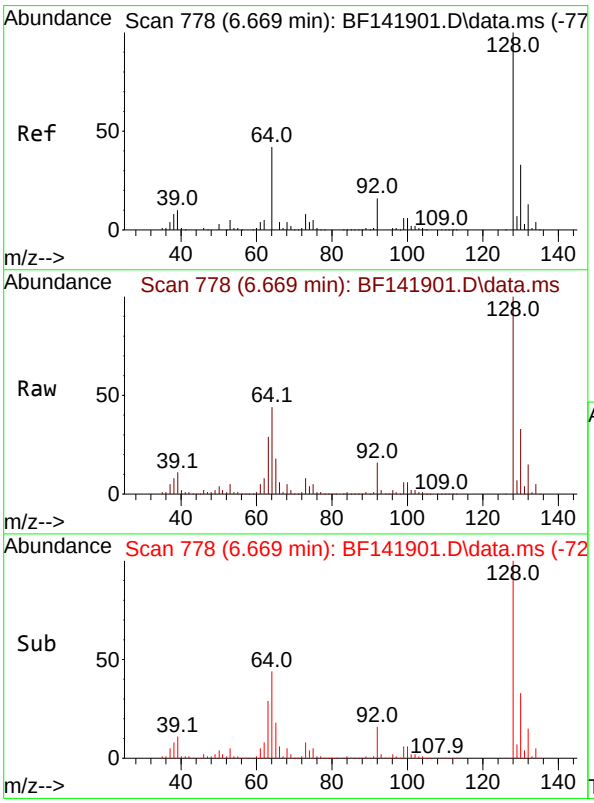
#7
Phenol-d6
Concen: 75.580 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 1285980

Ion	Ratio	Lower	Upper
99	100		
42	18.2	14.6	21.8
71	38.5	30.8	46.2

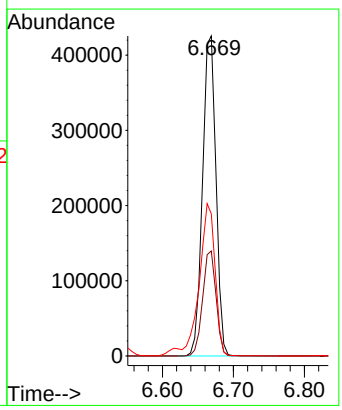


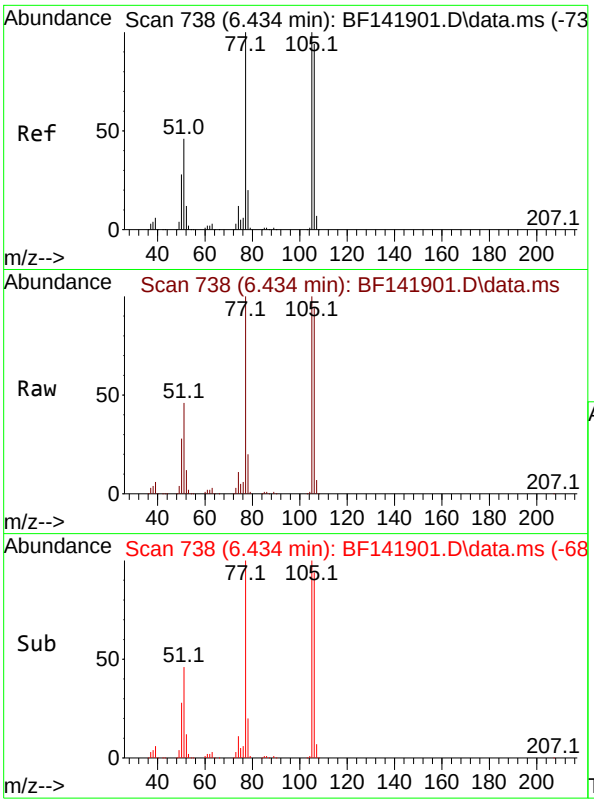


#8
2-Chlorophenol
Concen: 37.902 ng
RT: 6.669 min Scan# 778
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:128 Resp: 561230

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.8	52.8
64	44.4	24.4	64.4



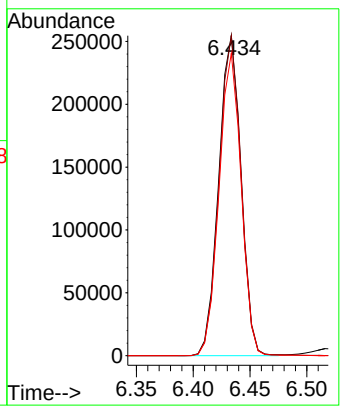


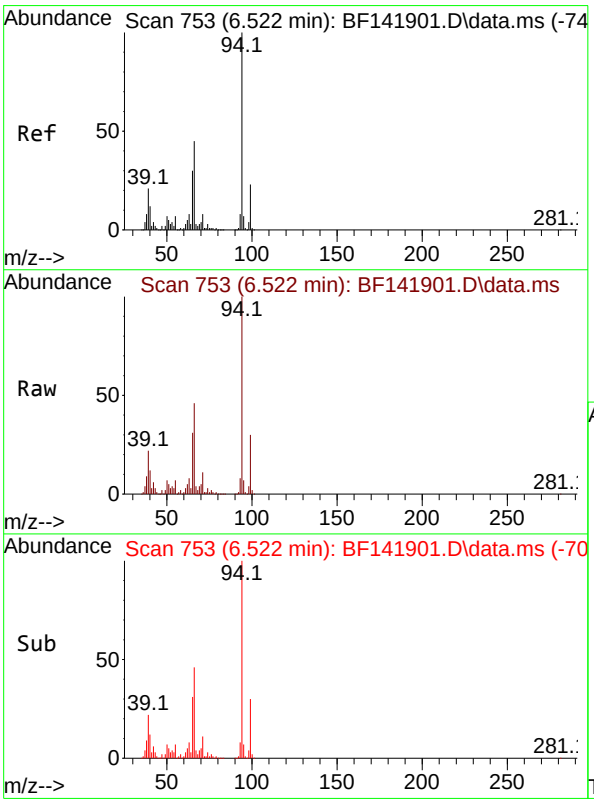
#9
Benzaldehyde
Concen: 36.467 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 346818

Ion	Ratio	Lower	Upper
77	100		
105	100.0	80.0	120.0
106	94.5	74.5	114.5

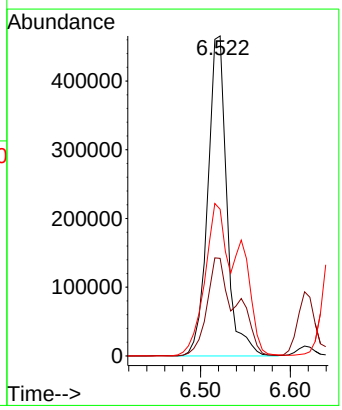


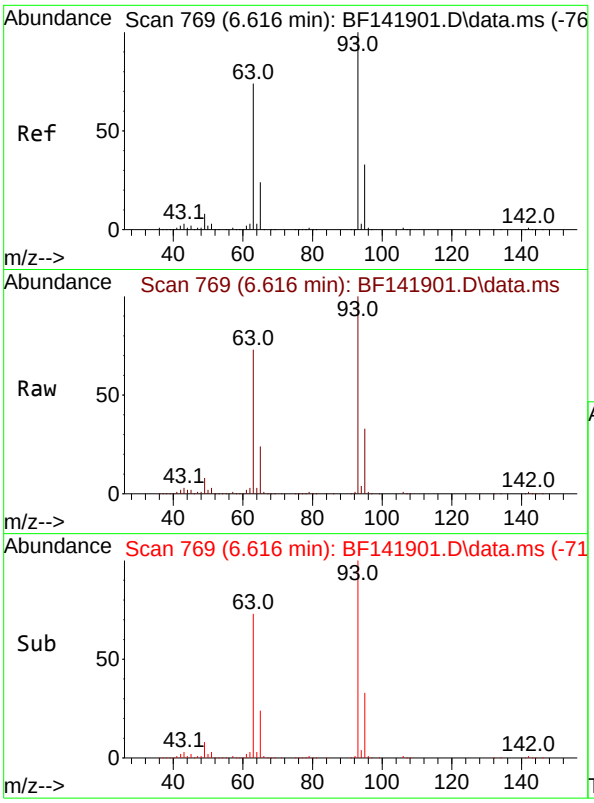


#10
Phenol
Concen: 38.141 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion: 94 Resp: 684724

Ion	Ratio	Lower	Upper
94	100		
65	30.5	10.5	50.5
66	45.8	25.8	65.8



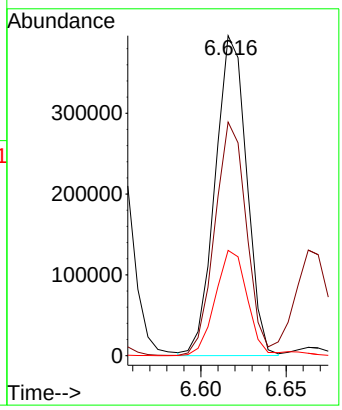


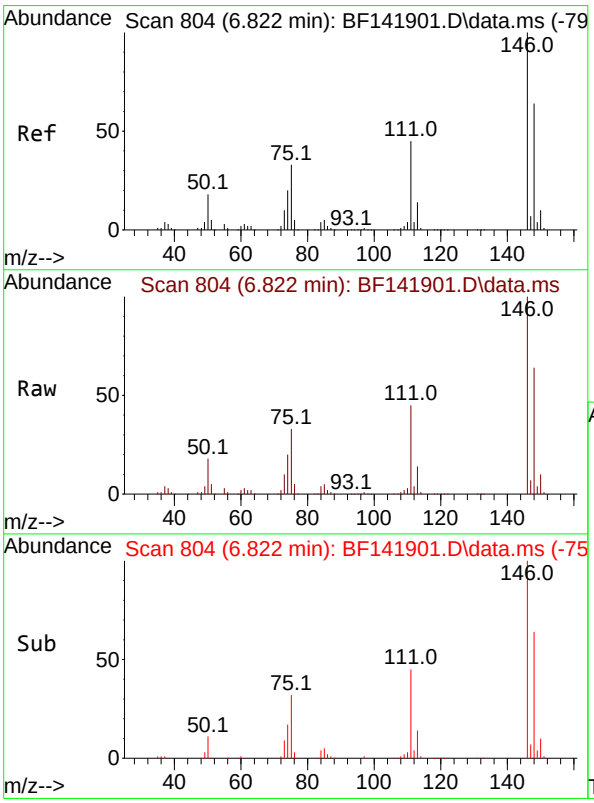
#11
bis(2-Chloroethyl)ether
Concen: 37.932 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 510214

Ion	Ratio	Lower	Upper
93	100		
63	73.0	53.0	93.0
95	32.9	12.9	52.9

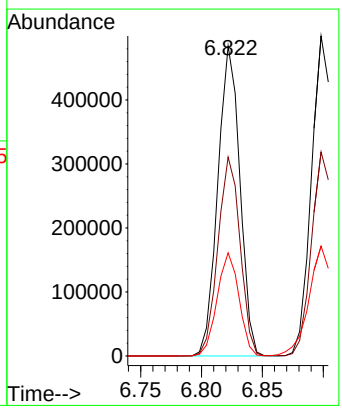


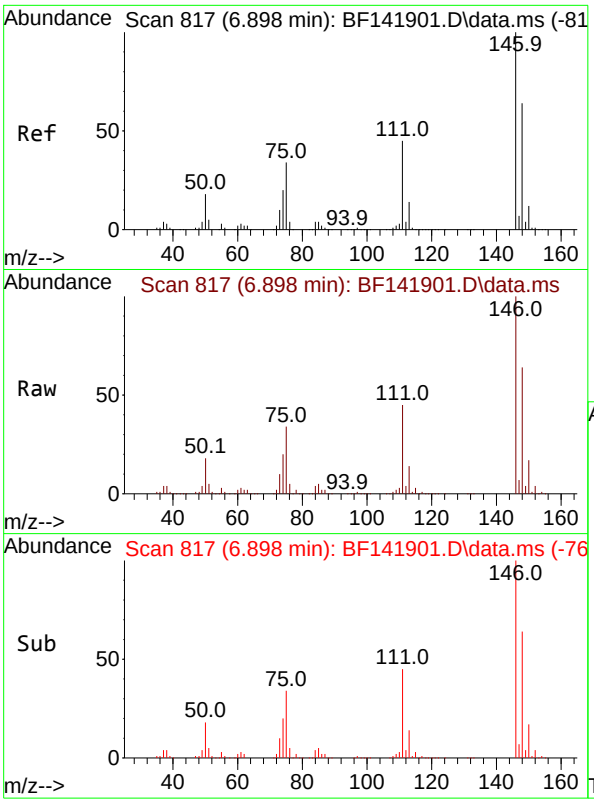


#12
1,3-Dichlorobenzene
Concen: 38.242 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:146 Resp: 611938

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.3	76.9
75	33.3	26.6	40.0



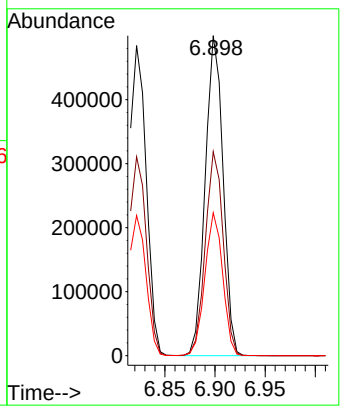


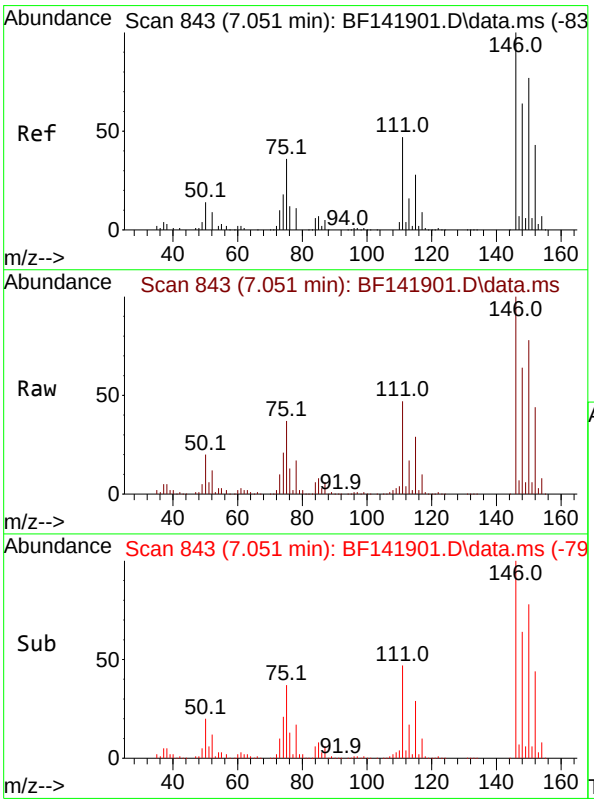
#13
1,4-Dichlorobenzene
Concen: 38.355 ng
RT: 6.898 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 620951

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.6
111	44.6	35.7	53.5

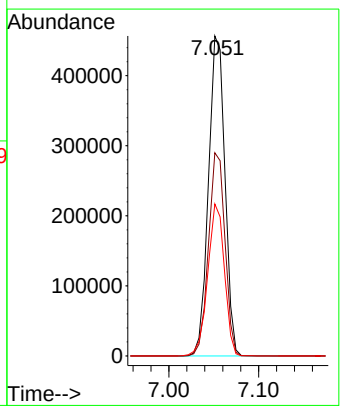


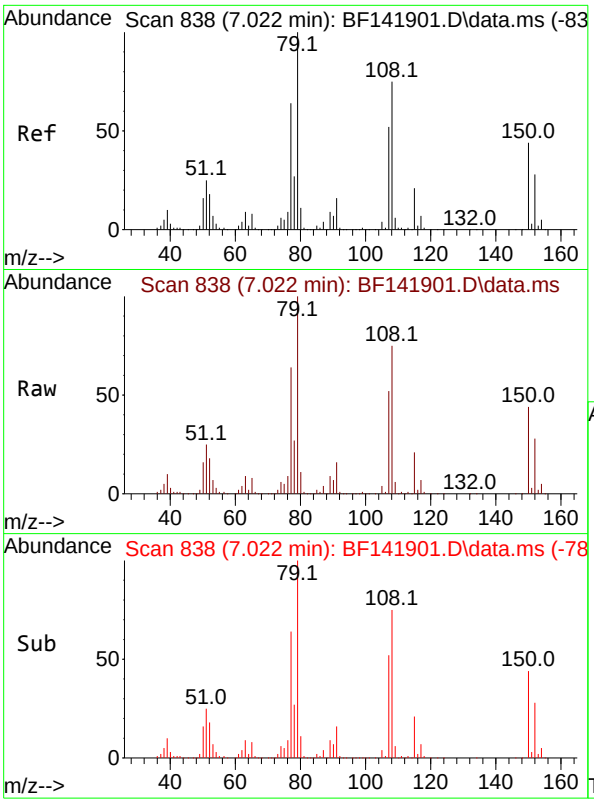


#14
1,2-Dichlorobenzene
Concen: 38.111 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:146 Resp: 581043

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.8	76.2
111	47.5	38.0	57.0



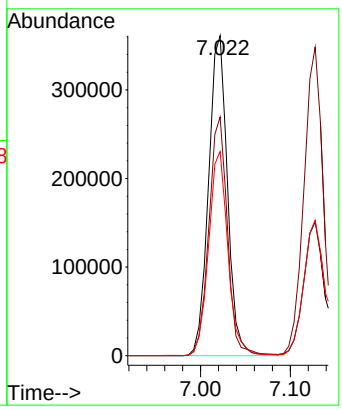


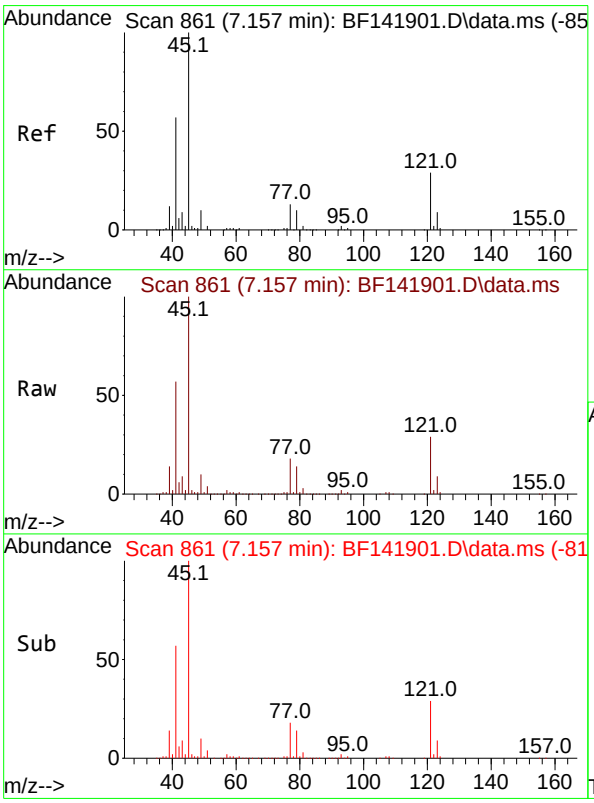
#15
Benzyl Alcohol
Concen: 38.371 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 528444

Ion	Ratio	Lower	Upper
79	100		
108	74.6	59.7	89.5
77	63.8	51.0	76.6

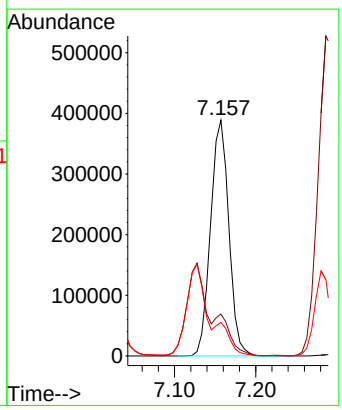


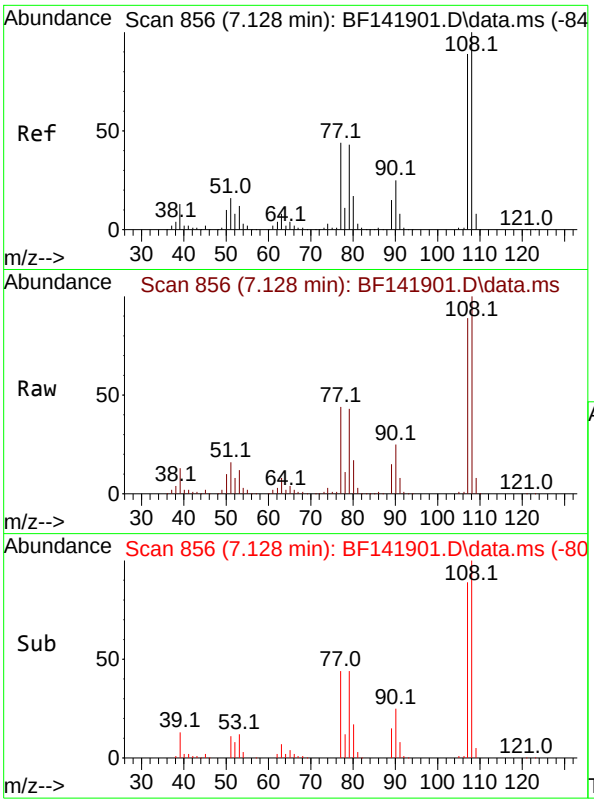


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.476 ng
RT: 7.157 min Scan# 861
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion: 45 Resp: 607522

Ion	Ratio	Lower	Upper
45	100		
77	17.8	0.0	37.8
79	14.2	0.0	34.2



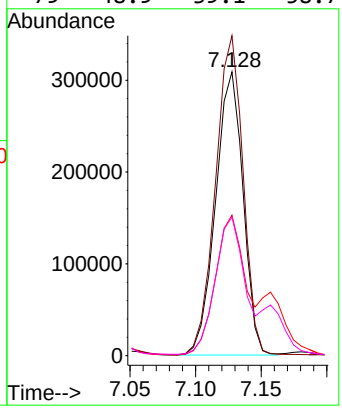


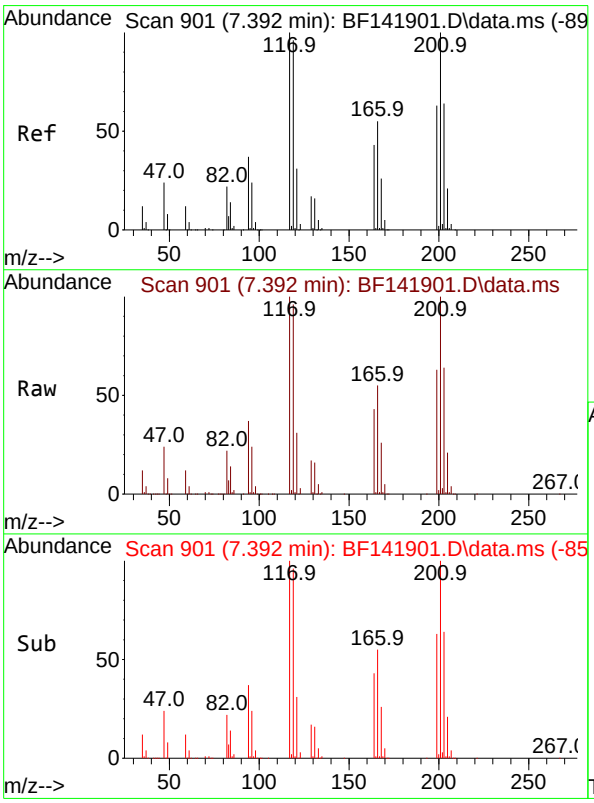
#17
2-Methylphenol
Concen: 38.190 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 449433

Ion	Ratio	Lower	Upper
107	100		
108	112.7	90.2	135.2
77	49.5	39.6	59.4
79	48.9	39.1	58.7

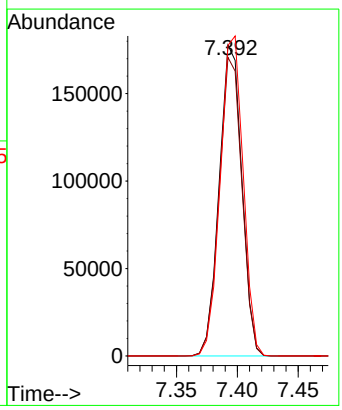


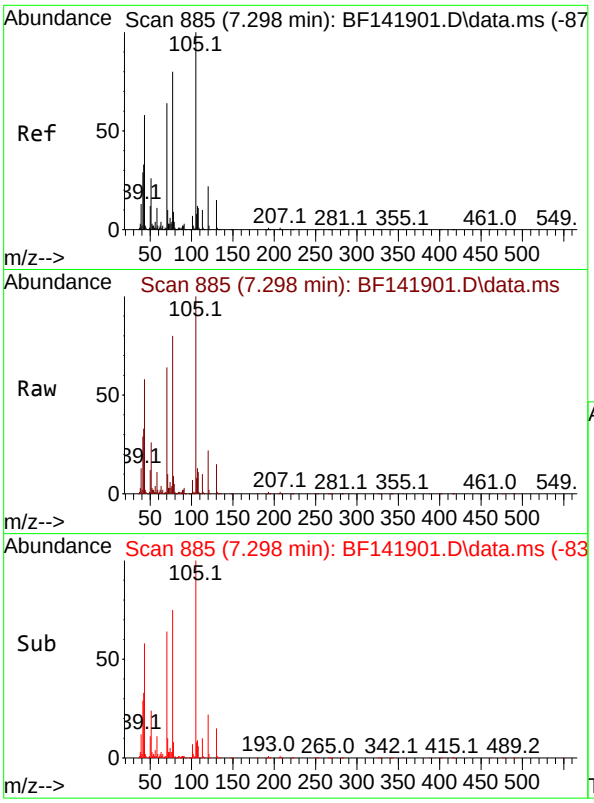


#18
Hexachloroethane
Concen: 37.993 ng
RT: 7.392 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:117 Resp: 230613

Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.9	115.3
201	99.9	79.9	119.9



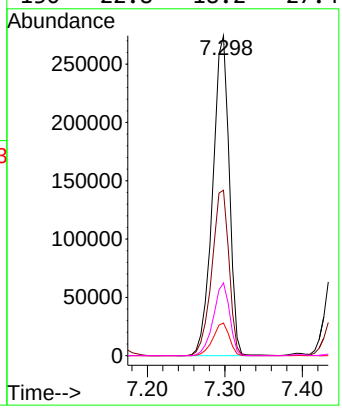


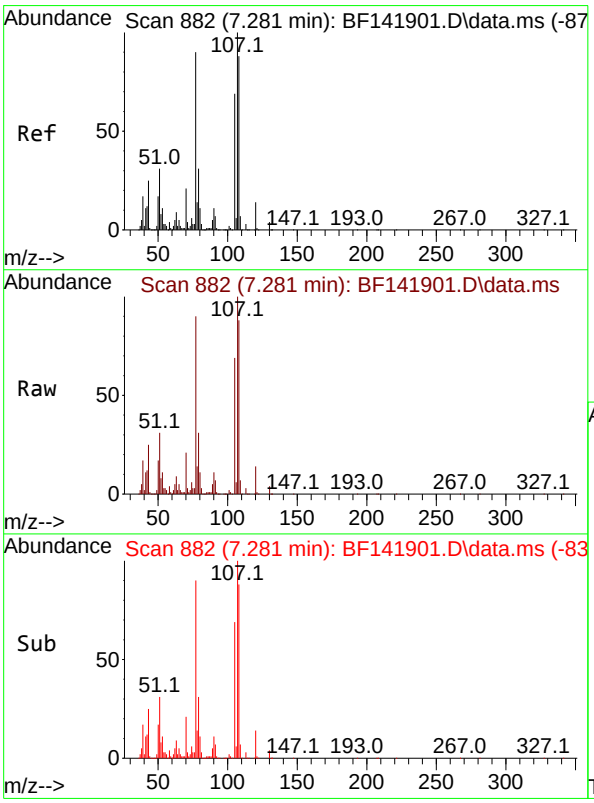
#19
n-Nitroso-di-n-propylamine
Concen: 37.223 ng
RT: 7.298 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 407069

Ion	Ratio	Lower	Upper
70	100		
42	51.7	41.4	62.0
101	10.2	8.2	12.2
130	22.8	18.2	27.4

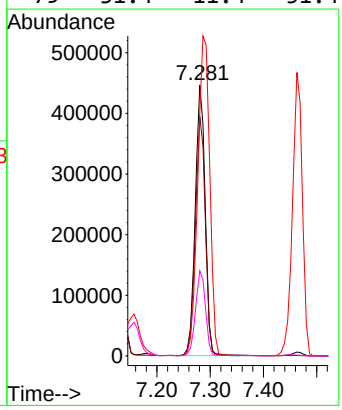


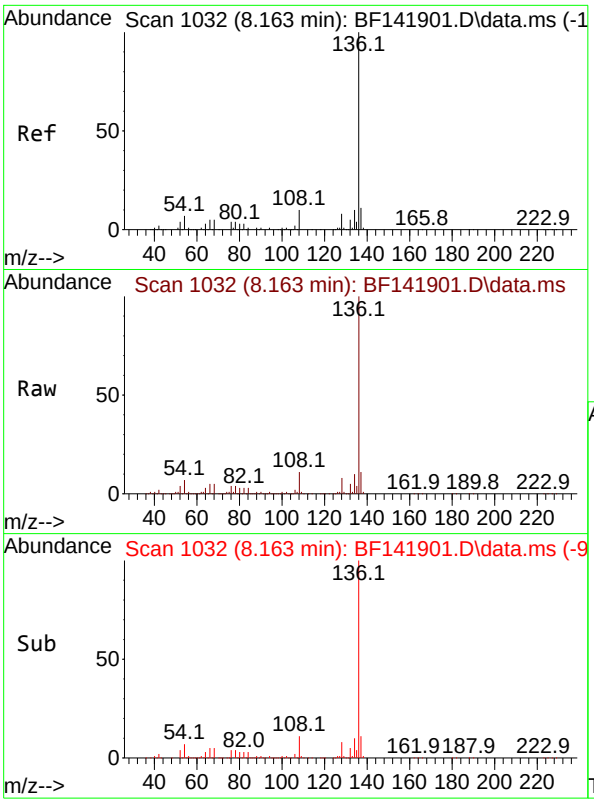


#20
3+4-Methylphenols
Concen: 38.219 ng
RT: 7.281 min Scan# 882
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:107 Resp: 576902

Ion	Ratio	Lower	Upper
107	100		
108	88.4	68.4	108.4
77	89.7	69.7	109.7
79	31.4	11.4	51.4



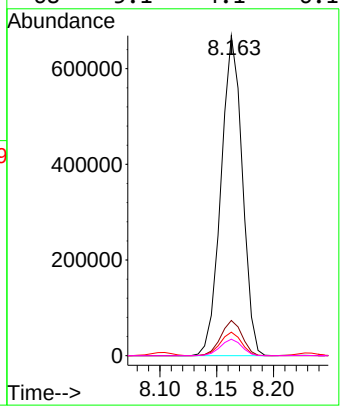


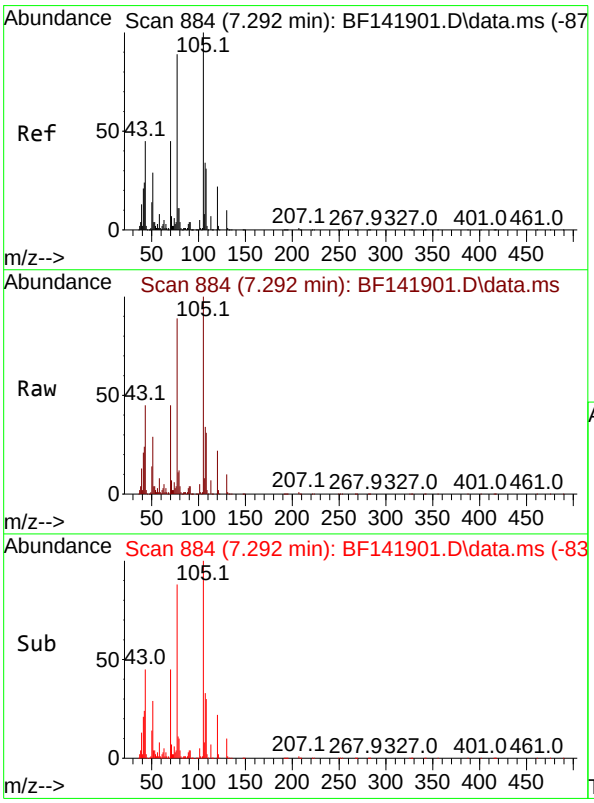
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 874166

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	7.3	5.8	8.8
68	5.1	4.1	6.1

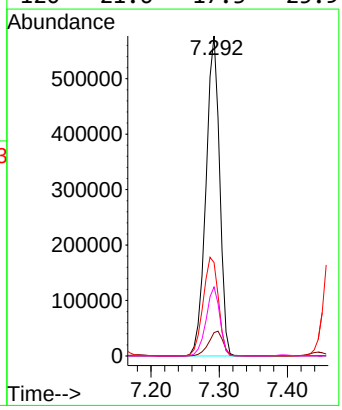


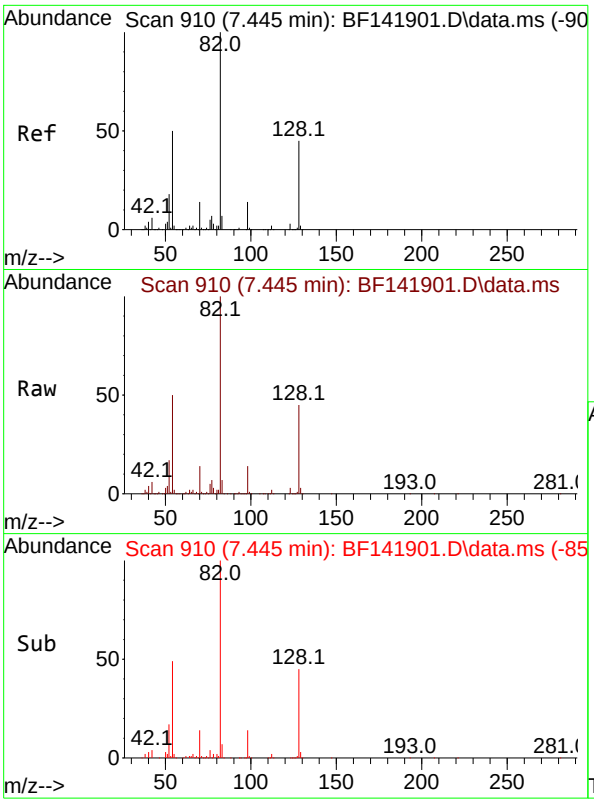


#22
Acetophenone
Concen: 38.376 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:105 Resp: 804747

Ion	Ratio	Lower	Upper
105	100		
71	7.3	5.8	8.8
51	29.2	23.4	35.0
120	21.6	17.3	25.9



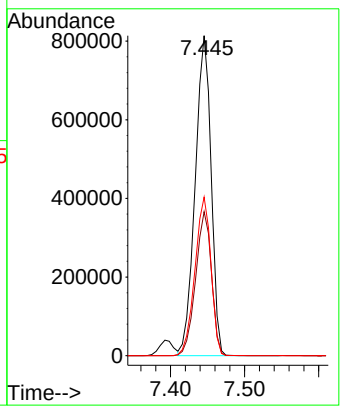


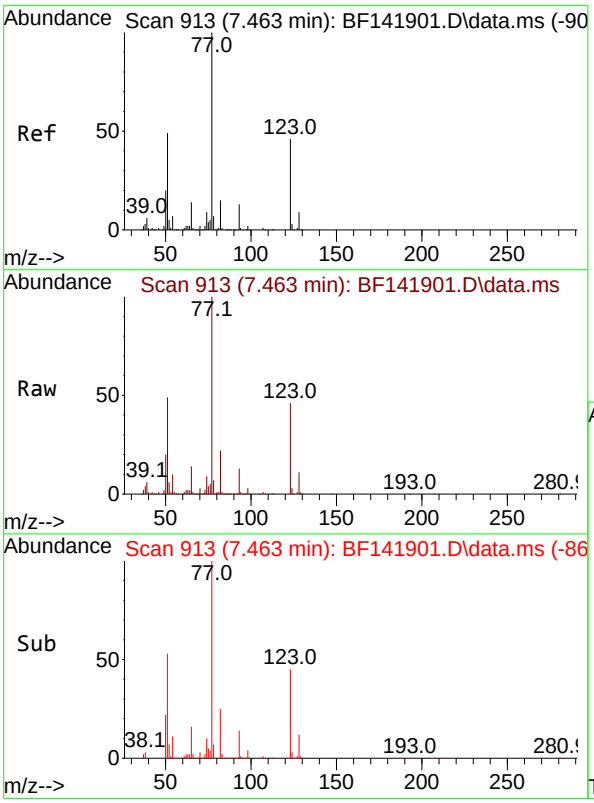
#23
Nitrobenzene-d5
Concen: 77.983 ng
RT: 7.445 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 1216280

Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.0	54.0
54	49.5	39.6	59.4

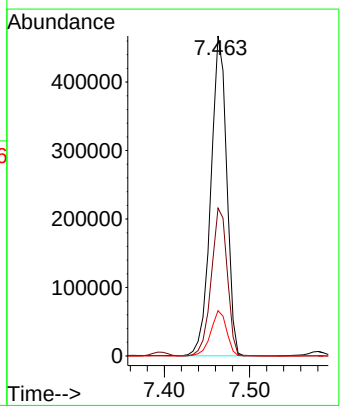


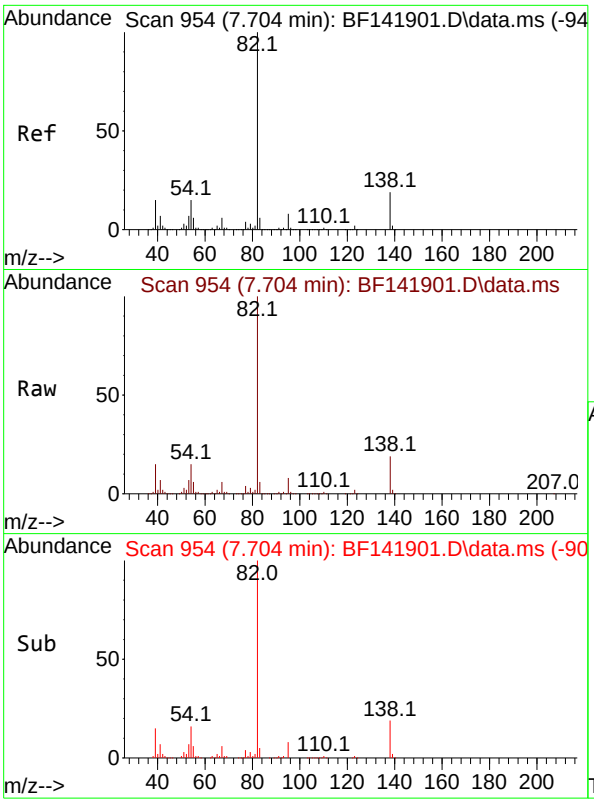


#24
Nitrobenzene
Concen: 39.106 ng
RT: 7.463 min Scan# 913
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion: 77 Resp: 604738

Ion	Ratio	Lower	Upper
77	100		
123	46.2	37.0	55.4
65	14.1	11.3	16.9



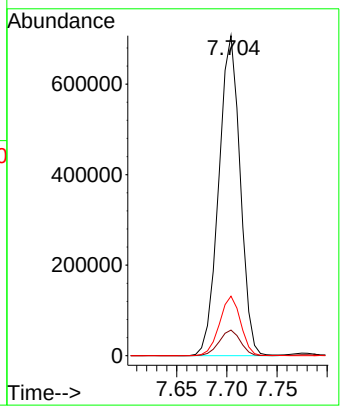


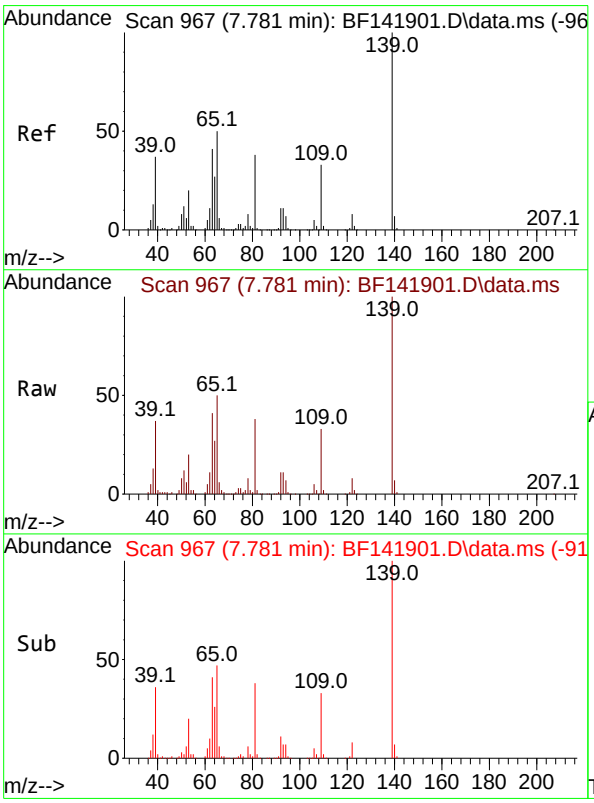
#25
Isophorone
Concen: 38.097 ng
RT: 7.704 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 1049049

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.4	9.6
138	18.6	14.9	22.3

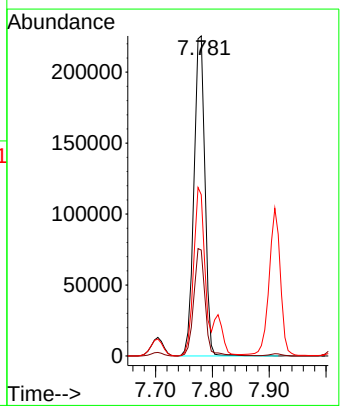


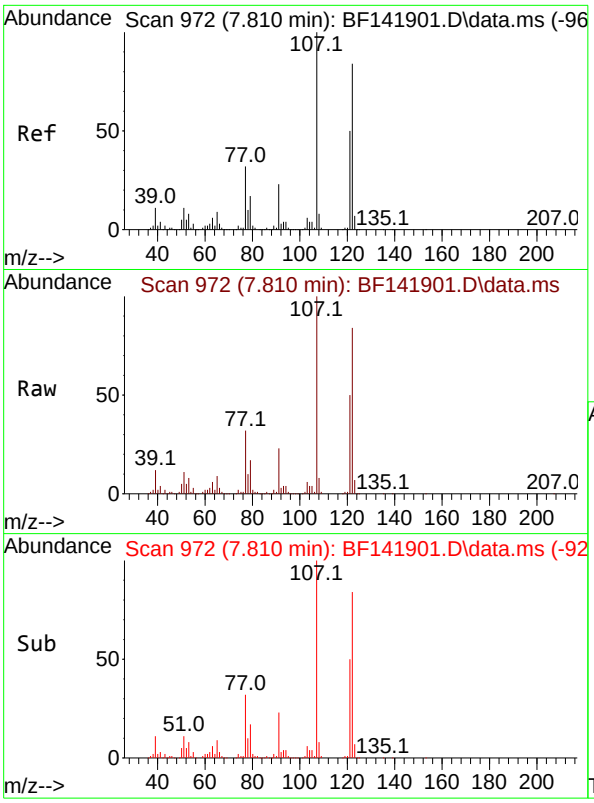


#26
2-Nitrophenol
Concen: 40.295 ng
RT: 7.781 min Scan# 967
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:139 Resp: 305349

Ion	Ratio	Lower	Upper
139	100		
109	33.1	26.5	39.7
65	50.4	40.3	60.5



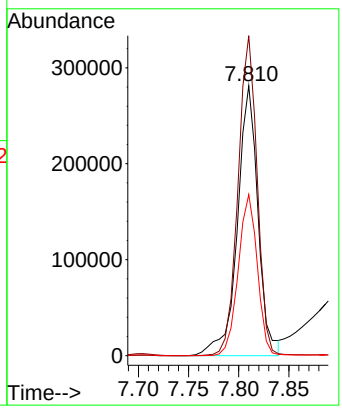


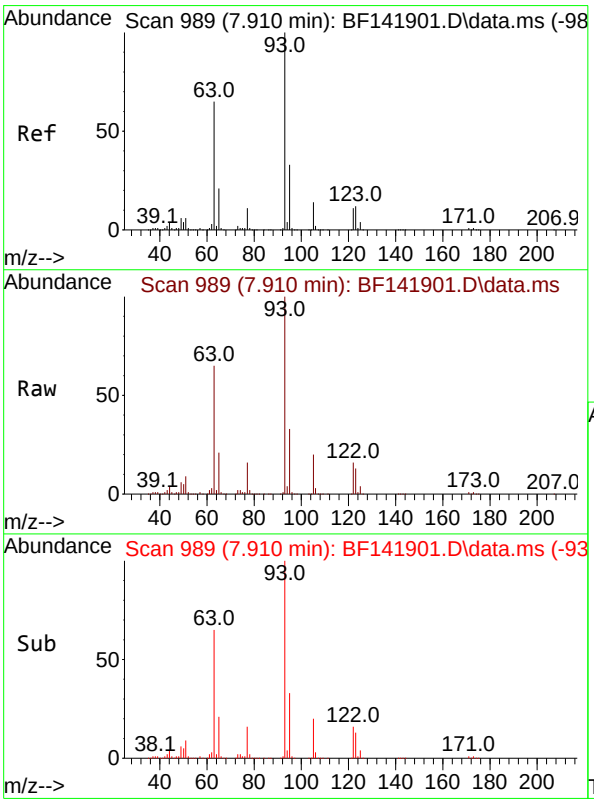
#27
2,4-Dimethylphenol
Concen: 38.671 ng
RT: 7.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 403621

Ion	Ratio	Lower	Upper
122	100		
107	118.5	94.8	142.2
121	59.7	47.8	71.6

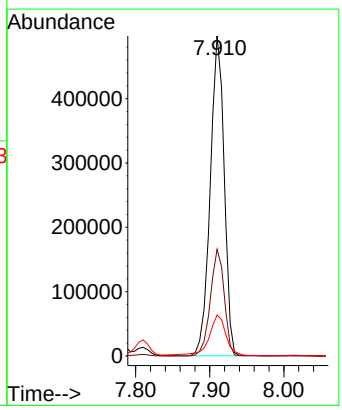


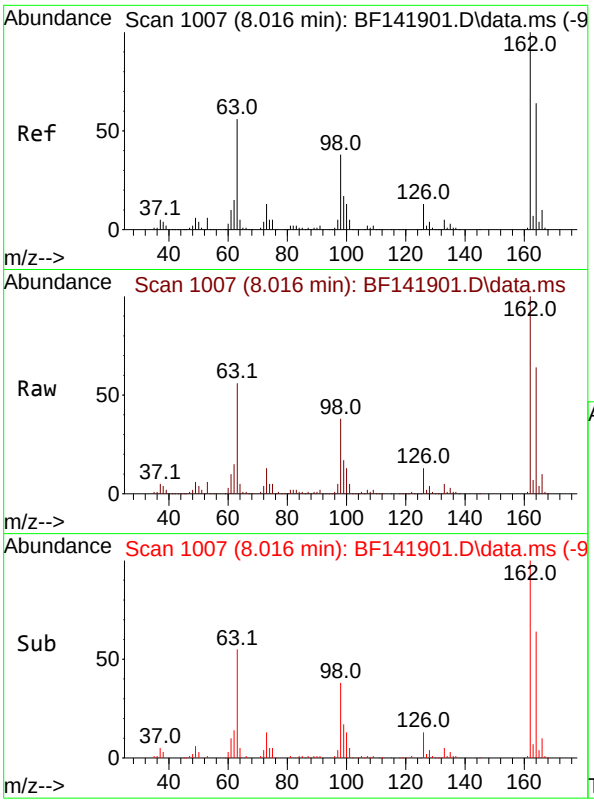


#28
bis(2-Chloroethoxy)methane
Concen: 37.702 ng
RT: 7.910 min Scan# 989
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion: 93 Resp: 650344

Ion	Ratio	Lower	Upper
93	100		
95	33.3	26.6	40.0
123	12.8	10.2	15.4



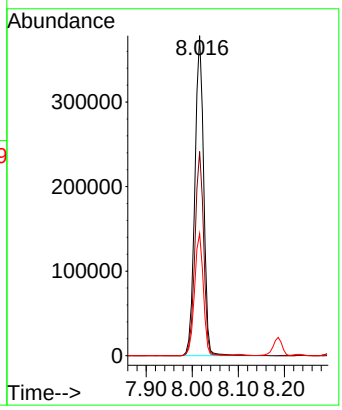


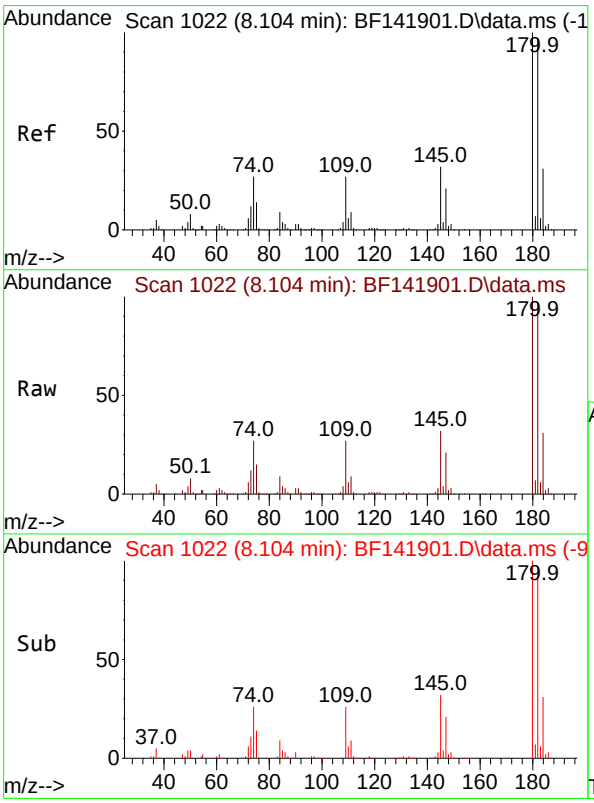
#29
2,4-Dichlorophenol
Concen: 38.619 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 500239

Ion	Ratio	Lower	Upper
162	100		
164	63.8	43.8	83.8
98	38.1	18.1	58.1

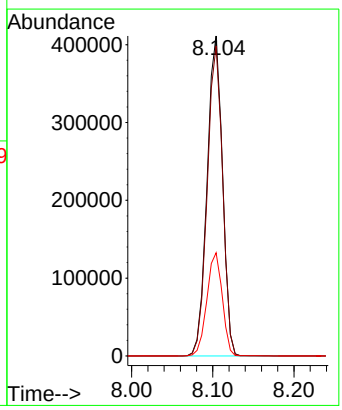


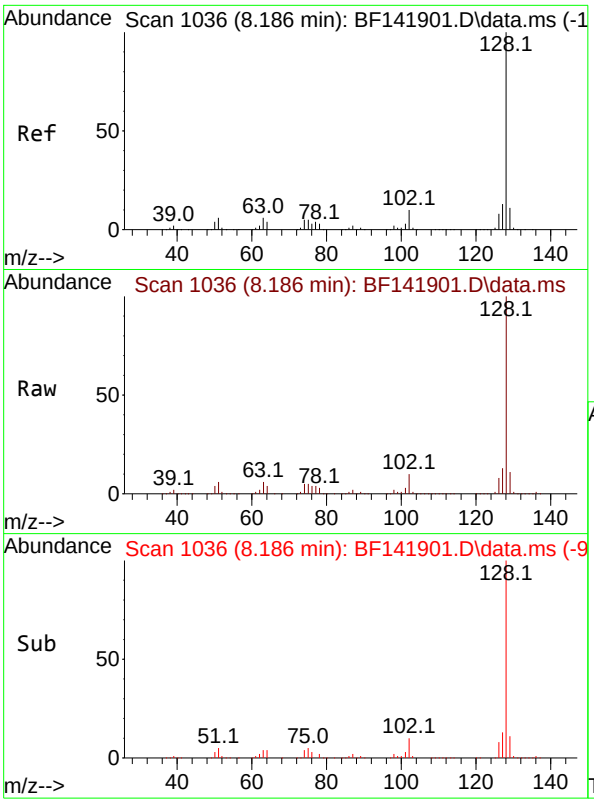


#30
1,2,4-Trichlorobenzene
Concen: 37.870 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:180 Resp: 541182

Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.5	116.3
145	32.2	25.8	38.6



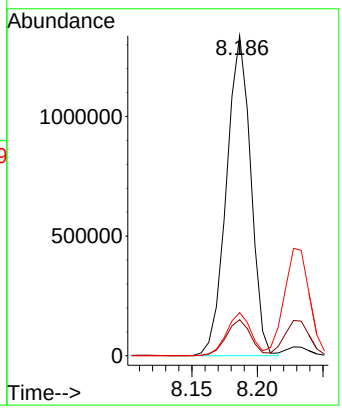


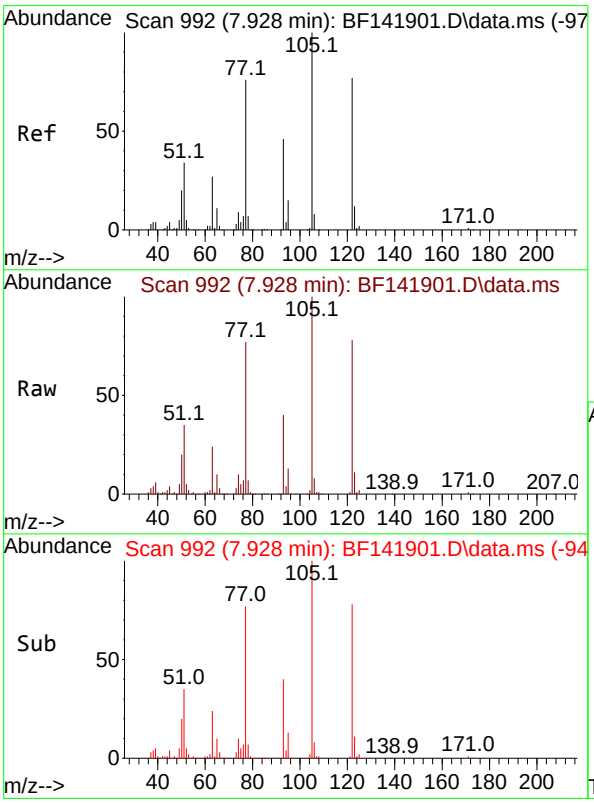
#31
Naphthalene
Concen: 38.400 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 1719643

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.6
127	13.5	10.8	16.2

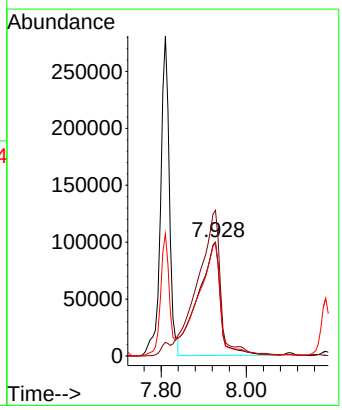


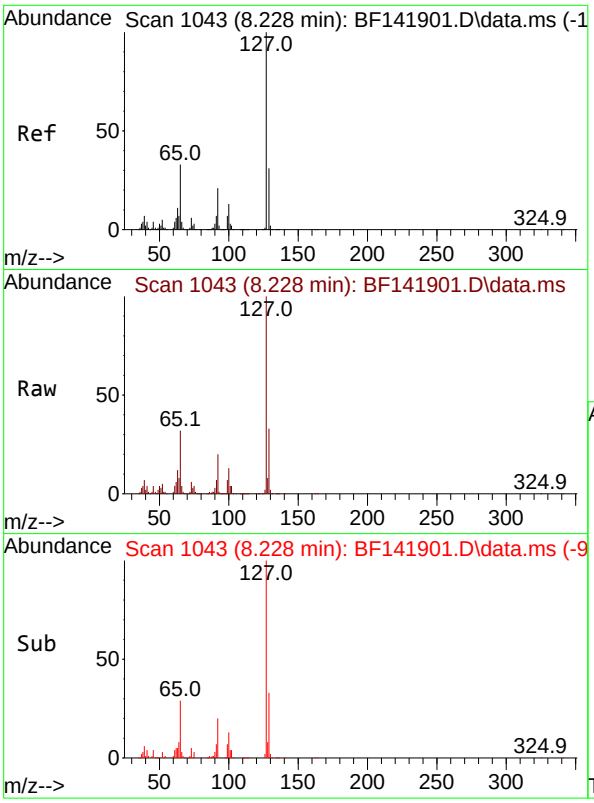


#32
Benzoic acid
Concen: 39.827 ng
RT: 7.928 min Scan# 992
Delta R.T. -0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:122 Resp: 363328

Ion	Ratio	Lower	Upper
122	100		
105	127.9	107.9	147.9
77	99.0	79.0	119.0



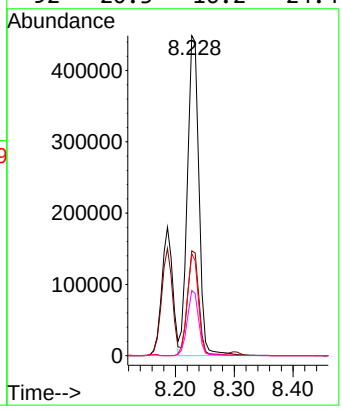


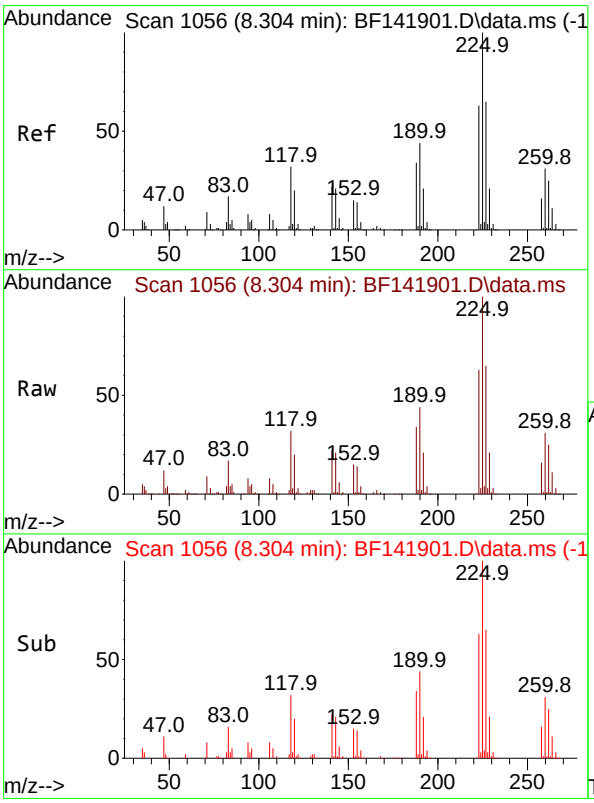
#33
4-Chloroaniline
Concen: 38.824 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 613535

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.2	39.4
65	31.8	25.4	38.2
92	20.3	16.2	24.4

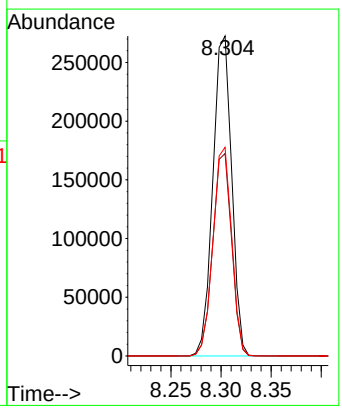


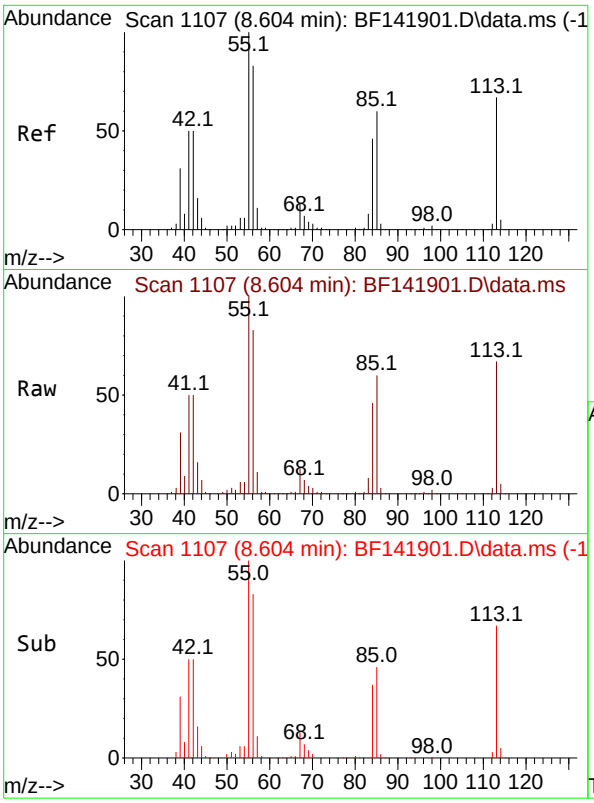


#34
Hexachlorobutadiene
Concen: 38.285 ng
RT: 8.304 min Scan# 1056
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:225 Resp: 355740

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.6	75.8
227	65.2	52.2	78.2



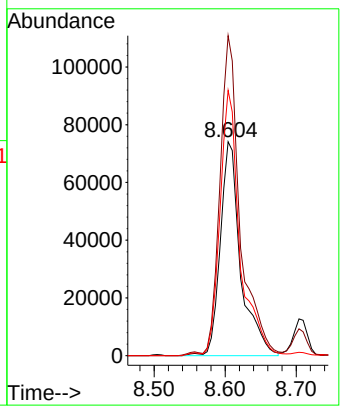


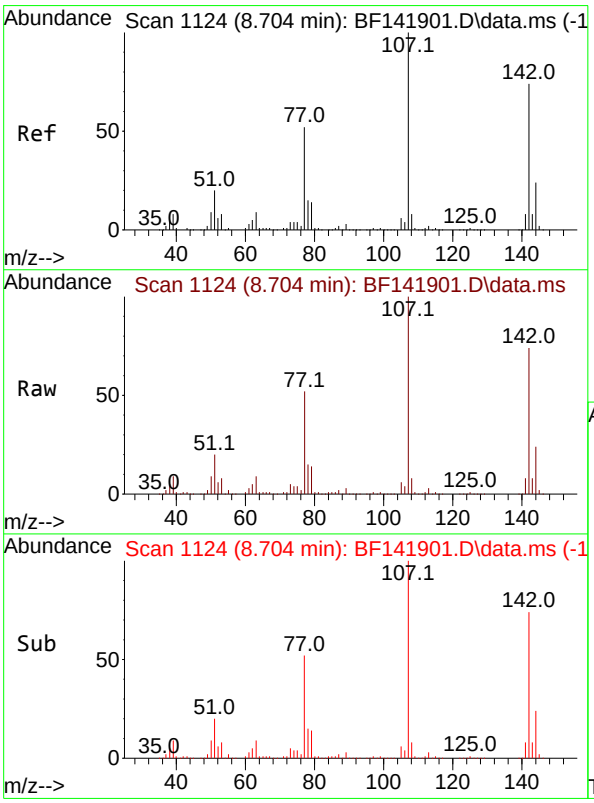
#35
Caprolactam
Concen: 37.335 ng
RT: 8.604 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 147056

Ion	Ratio	Lower	Upper
113	100		
55	149.6	129.6	169.6
56	124.0	104.0	144.0

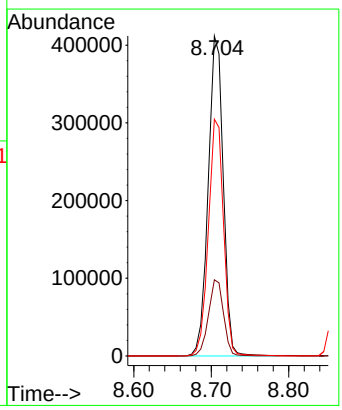


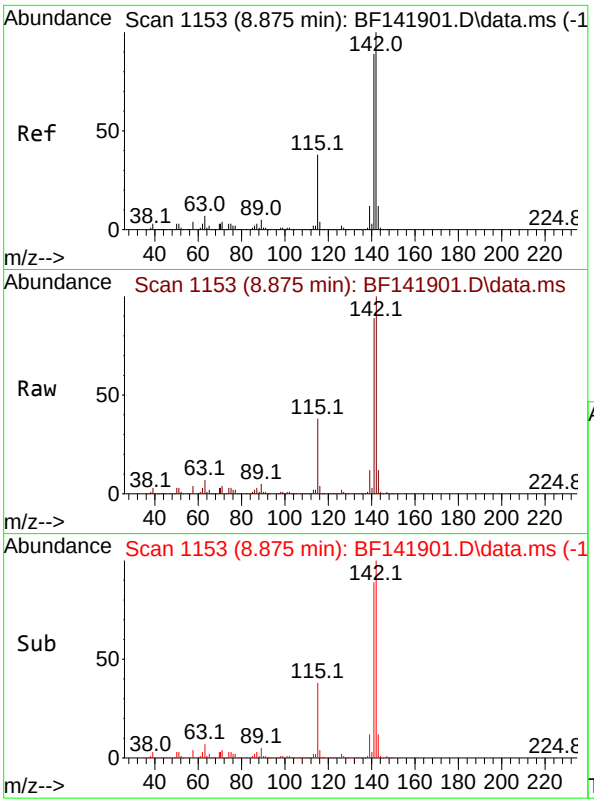


#36
4-Chloro-3-methylphenol
Concen: 38.549 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:107 Resp: 555328

Ion	Ratio	Lower	Upper
107	100		
144	23.8	19.0	28.6
142	74.0	59.2	88.8



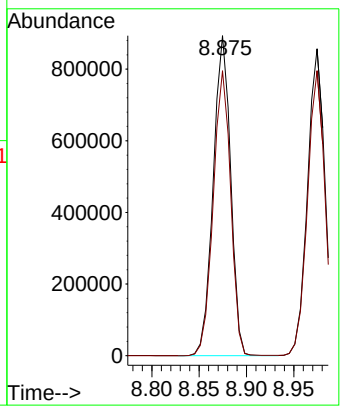


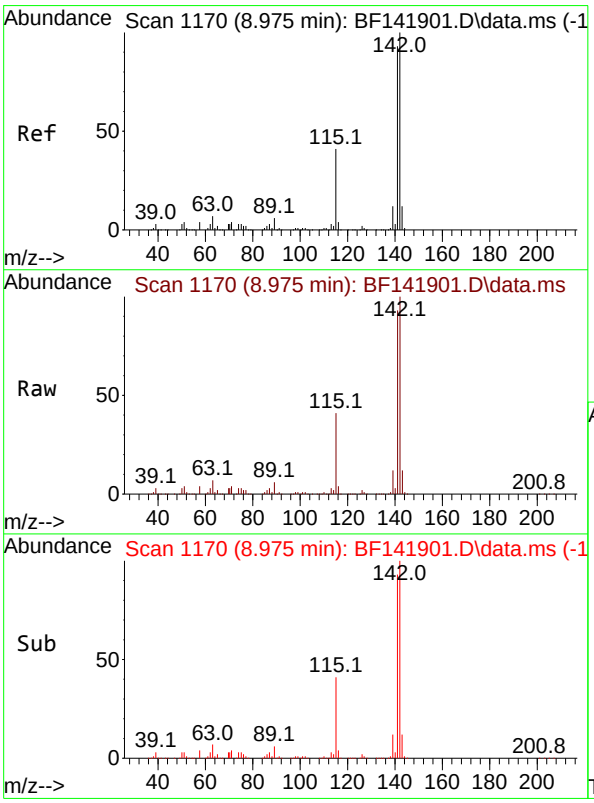
#37
2-Methylnaphthalene
Concen: 37.983 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 1141228

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.2	106.8

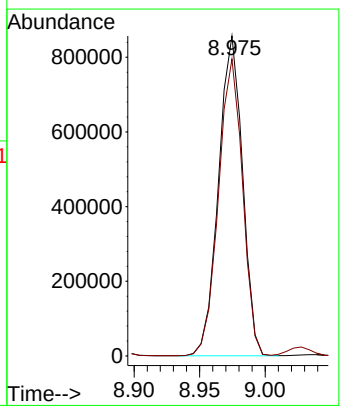


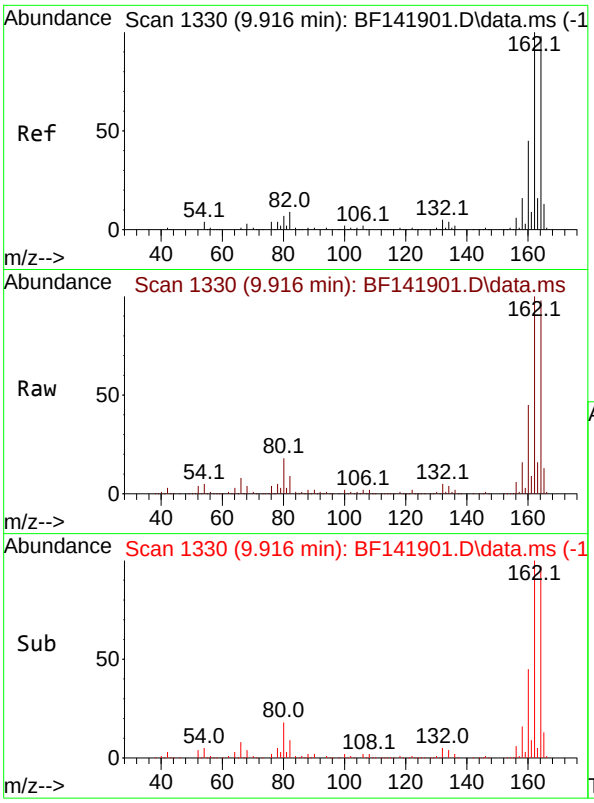


#38
1-Methylnaphthalene
Concen: 37.447 ng
RT: 8.975 min Scan# 1170
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:142 Resp: 1089576

Ion	Ratio	Lower	Upper
142	100		
141	92.8	74.2	111.4



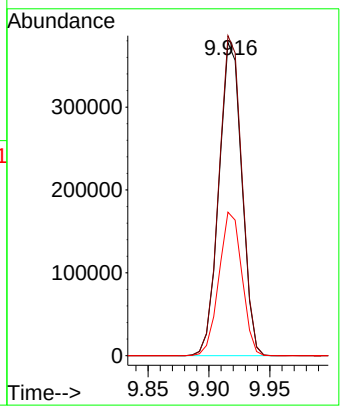


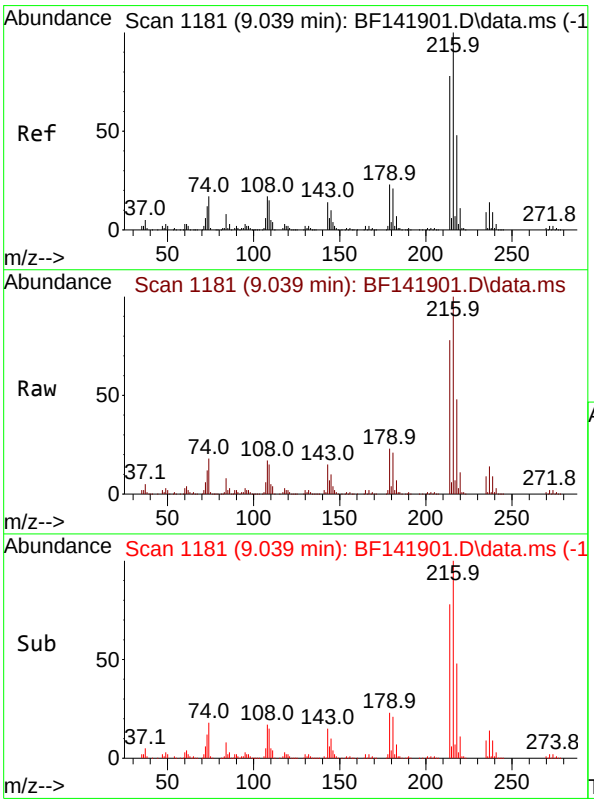
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 493744

Ion	Ratio	Lower	Upper
164	100		
162	102.2	81.8	122.6
160	45.9	36.7	55.1

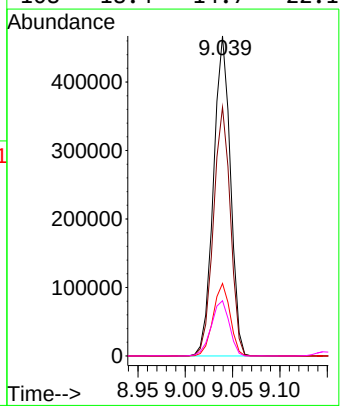


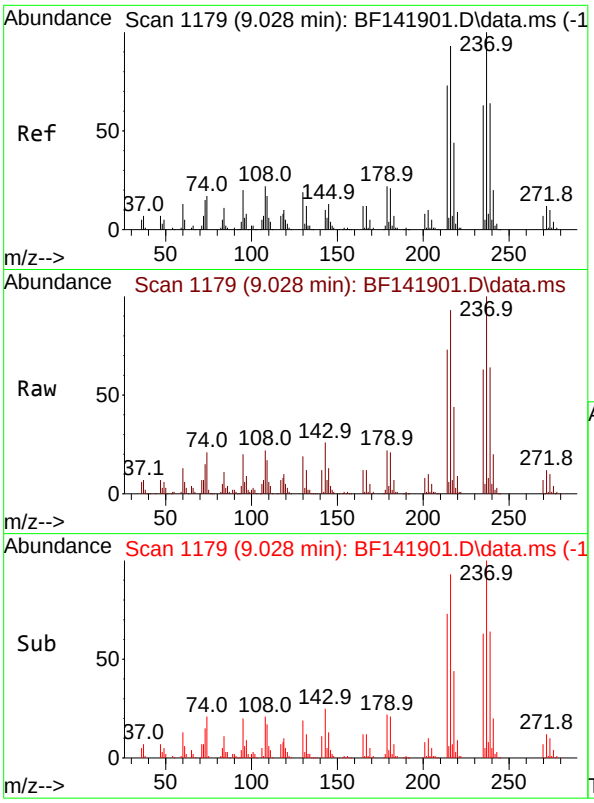


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.814 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:216 Resp: 584322

Ion	Ratio	Lower	Upper
216	100		
214	77.4	61.9	92.9
179	22.6	18.1	27.1
108	18.4	14.7	22.1



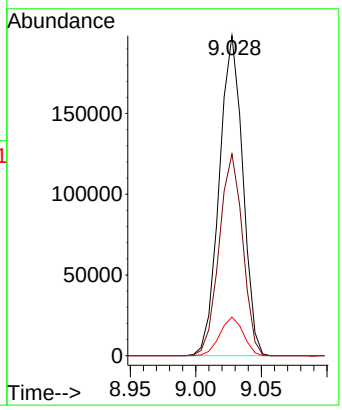


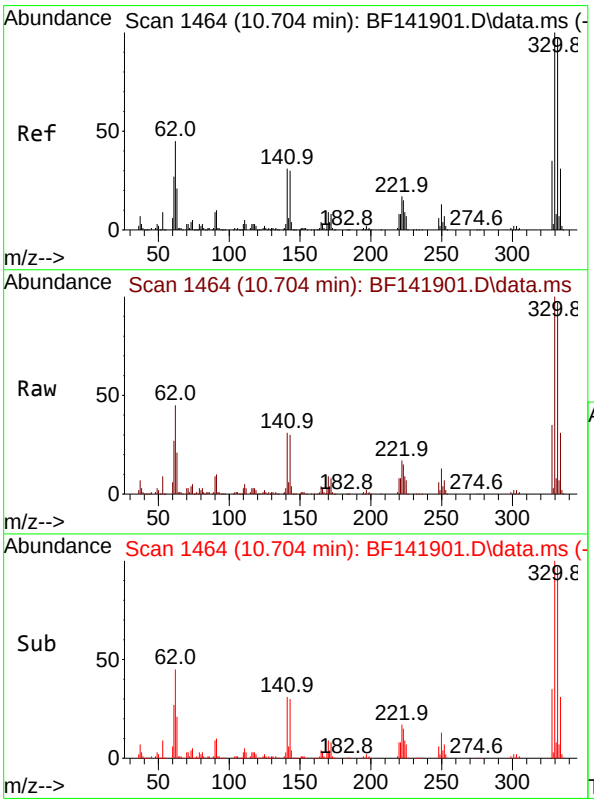
#41
Hexachlorocyclopentadiene
Concen: 41.523 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 246666

Ion	Ratio	Lower	Upper
237	100		
235	63.1	43.1	83.1
272	12.0	0.0	32.0

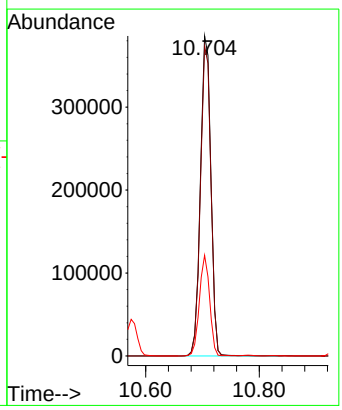


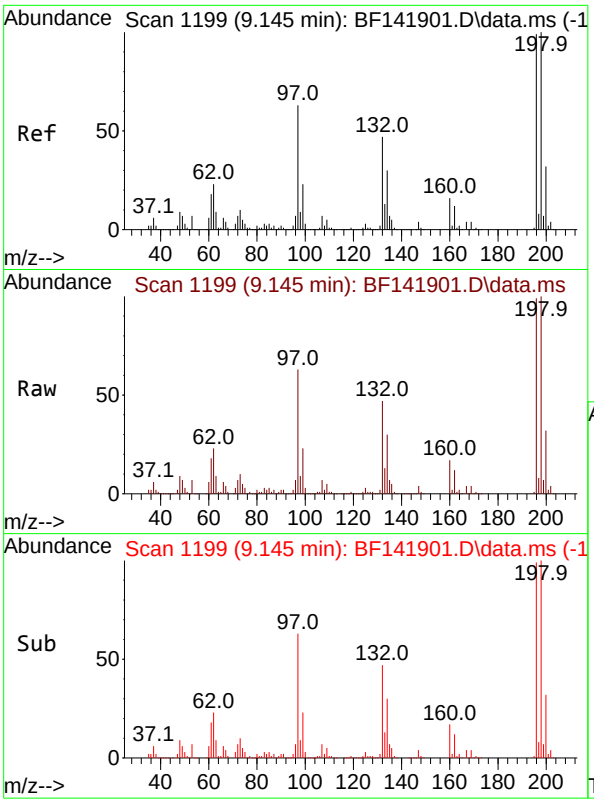


#42
2,4,6-Tribromophenol
Concen: 78.949 ng
RT: 10.704 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:330 Resp: 493945

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.6	116.4
141	30.9	24.7	37.1



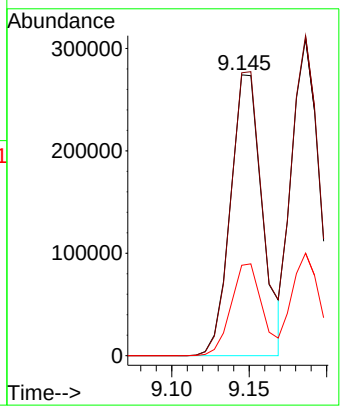


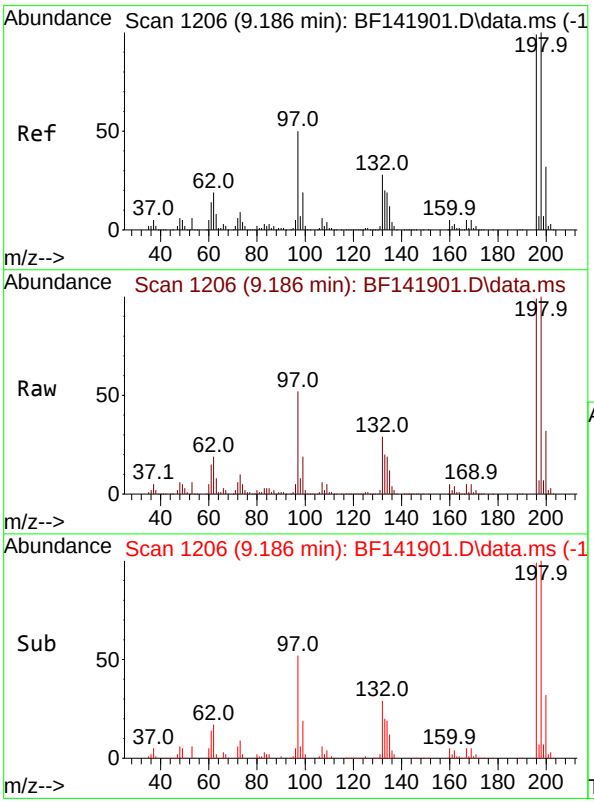
#43
2,4,6-Trichlorophenol
Concen: 40.014 ng
RT: 9.145 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 392696

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.6	121.0
200	32.2	25.8	38.6

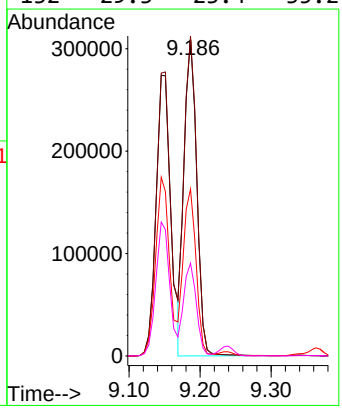


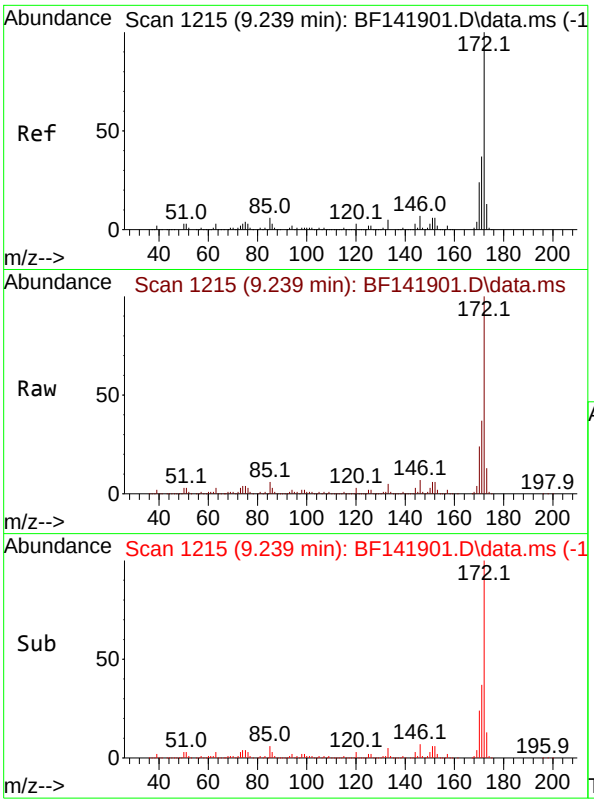


#44
2,4,5-Trichlorophenol
Concen: 38.566 ng
RT: 9.186 min Scan# 1206
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:196 Resp: 384539

Ion	Ratio	Lower	Upper
196	100		
198	100.9	80.7	121.1
97	52.6	42.1	63.1
132	29.3	23.4	35.2



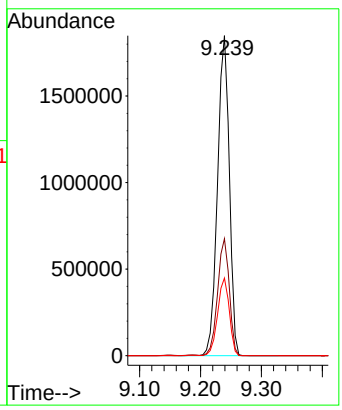


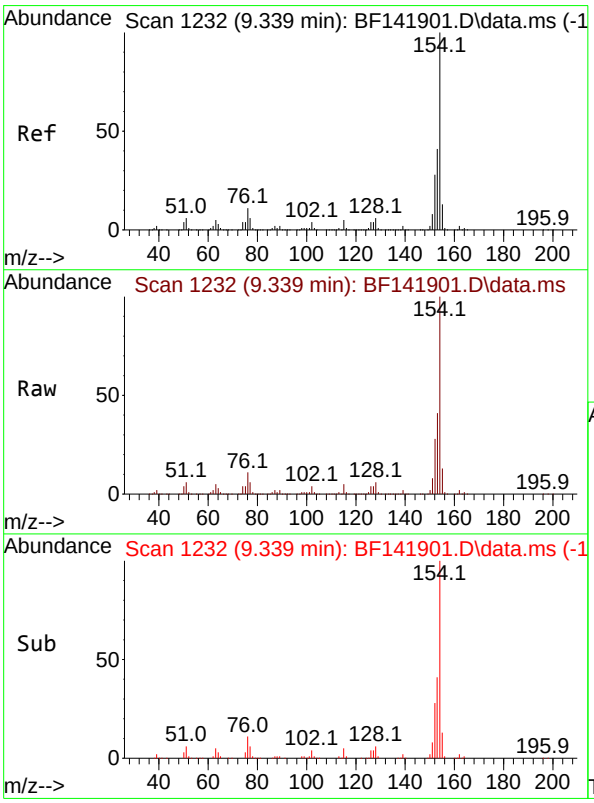
#45
2-Fluorobiphenyl
Concen: 76.357 ng
RT: 9.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 2475837

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.3	43.9
170	24.2	19.4	29.0

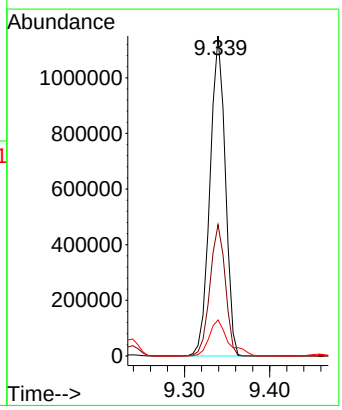


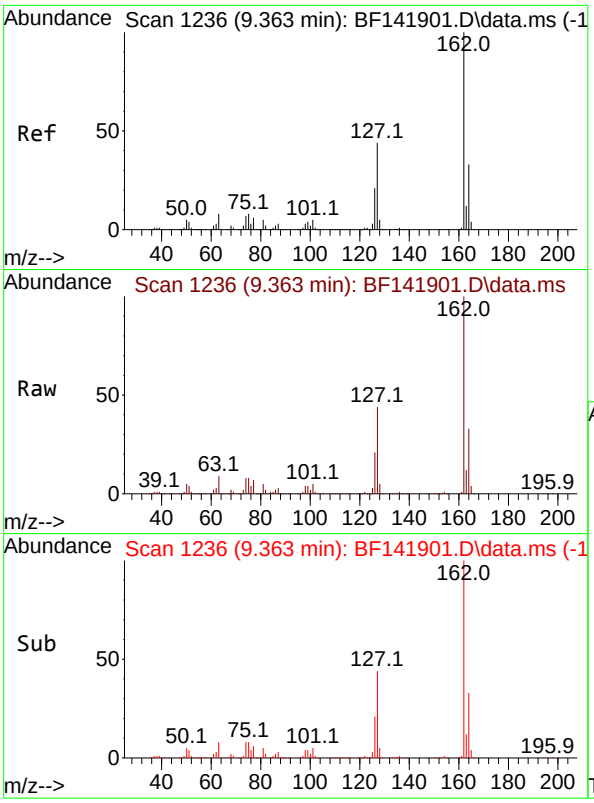


#46
1,1'-Biphenyl
Concen: 38.362 ng
RT: 9.339 min Scan# 1232
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:154 Resp: 1436040

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.1	61.1
76	11.3	0.0	31.3



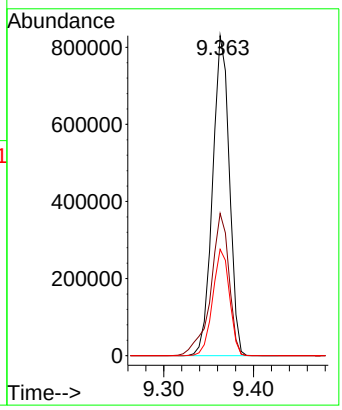


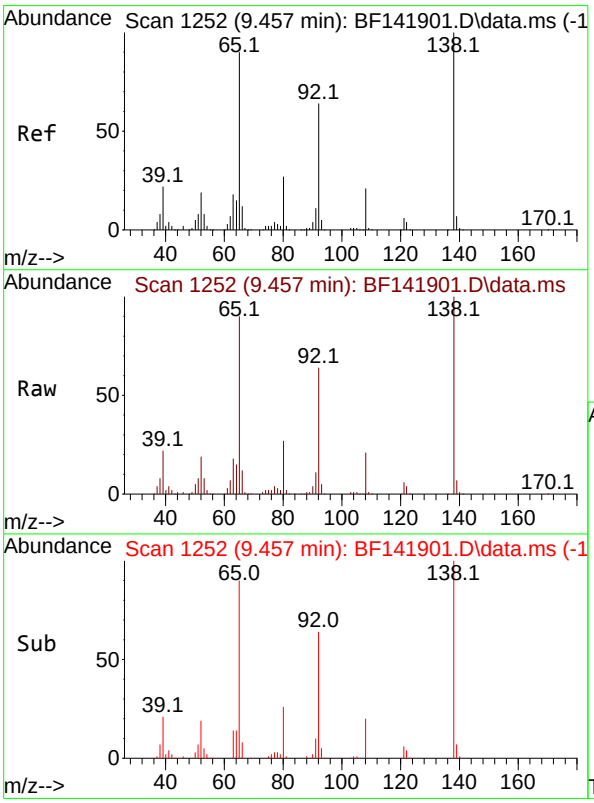
#47
2-Chloronaphthalene
Concen: 38.609 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 1077099

Ion	Ratio	Lower	Upper
162	100		
127	44.4	35.5	53.3
164	33.3	26.6	40.0

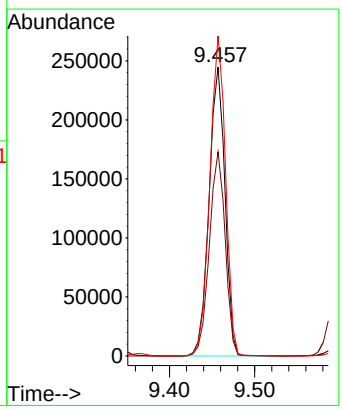


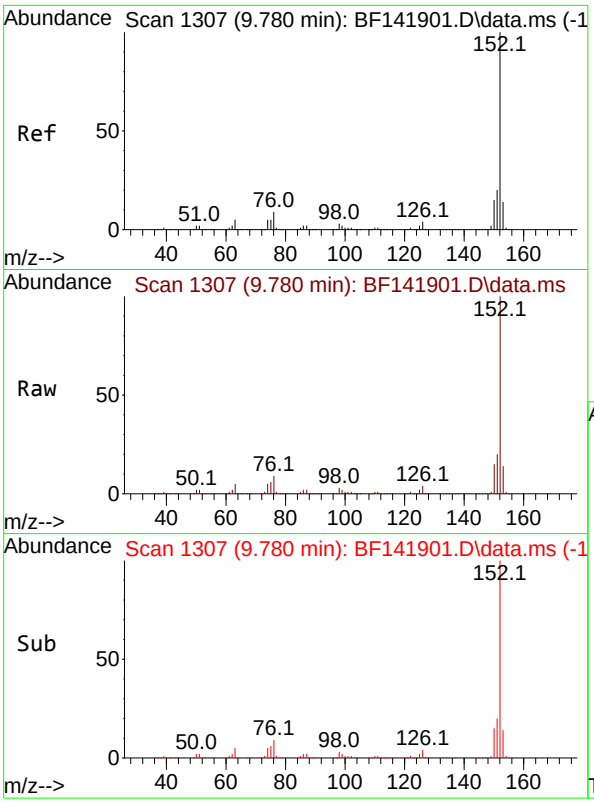


#48
2-Nitroaniline
Concen: 39.690 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion: 65 Resp: 318068

Ion	Ratio	Lower	Upper
65	100		
92	70.7	56.6	84.8
138	110.8	88.6	133.0



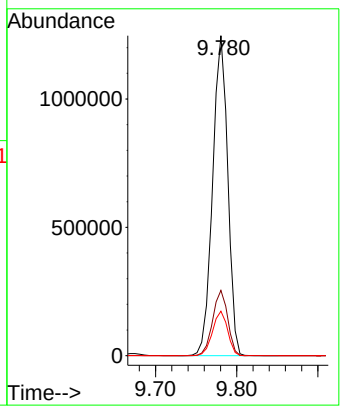


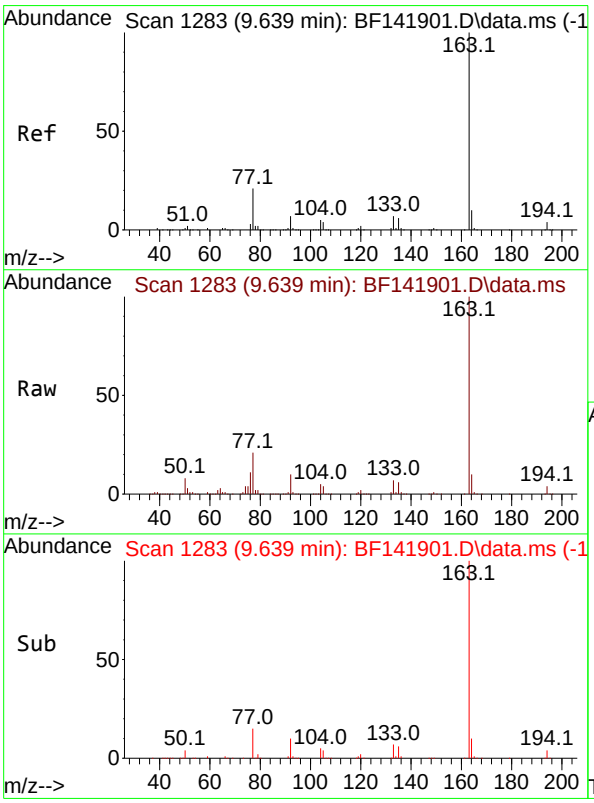
#49
Acenaphthylene
Concen: 39.029 ng
RT: 9.780 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 1614250

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	13.9	11.1	16.7

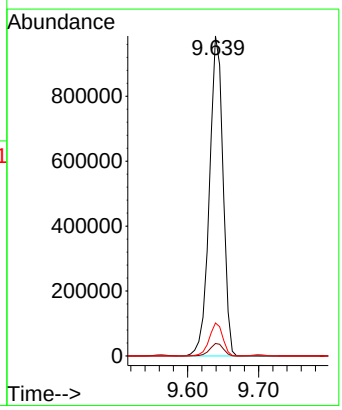


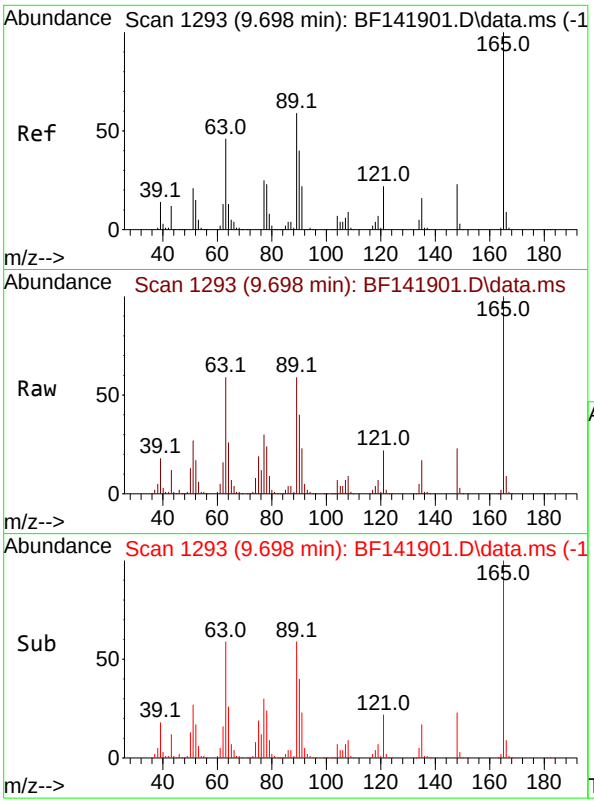


#50
Dimethylphthalate
Concen: 38.270 ng
RT: 9.639 min Scan# 1283
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:163 Resp: 1312856

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.3	8.2	12.4



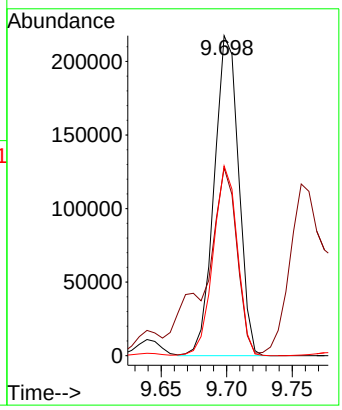


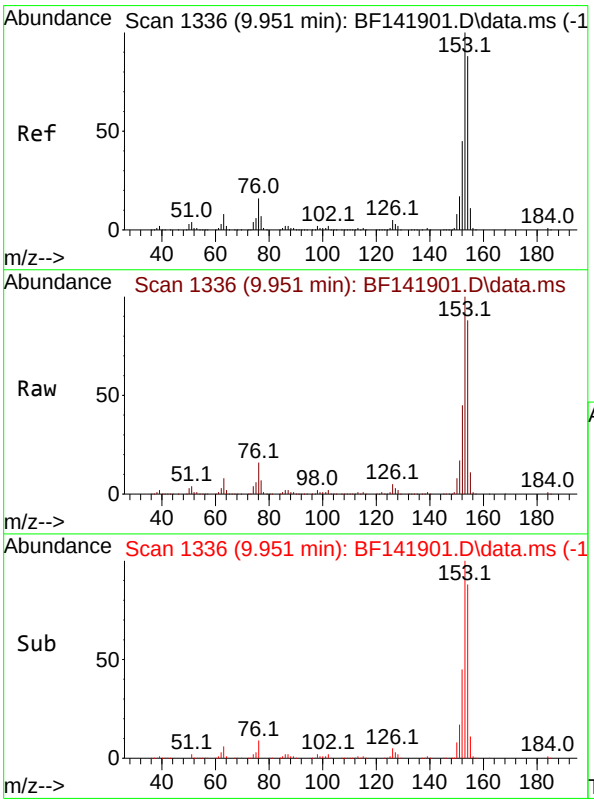
#51
2,6-Dinitrotoluene
Concen: 39.486 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 281695

Ion	Ratio	Lower	Upper
165	100		
63	58.7	47.0	70.4
89	59.3	47.4	71.2

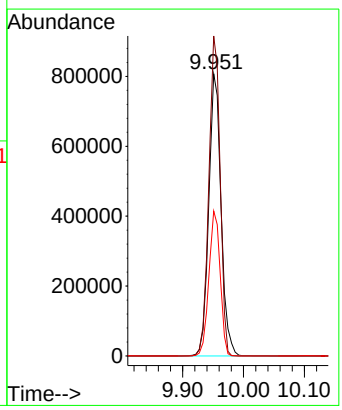


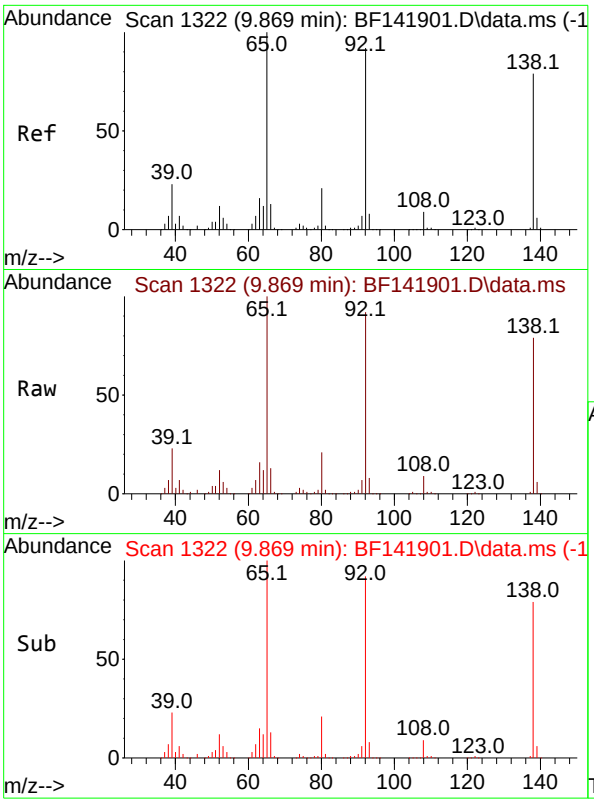


#52
Acenaphthene
Concen: 38.764 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:154 Resp: 1132087

Ion	Ratio	Lower	Upper
154	100		
153	113.4	90.7	136.1
152	51.4	41.1	61.7



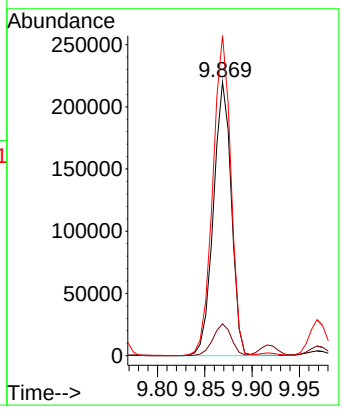


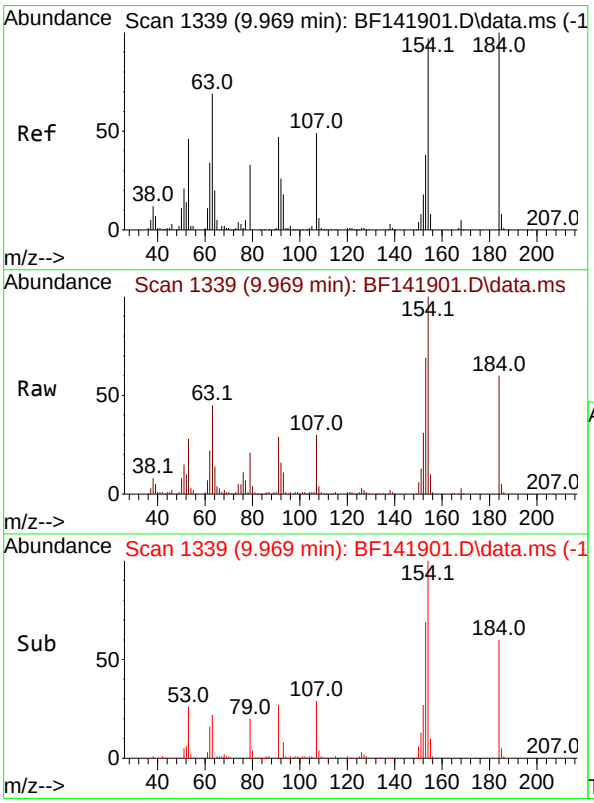
#53
3-Nitroaniline
Concen: 39.481 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 289208

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.3	13.9
92	116.9	93.5	140.3

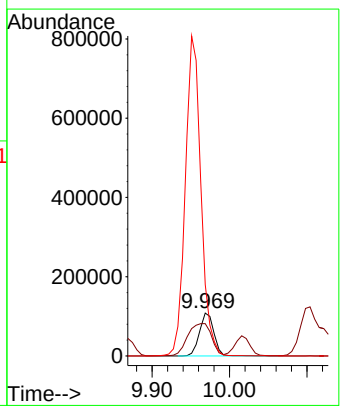


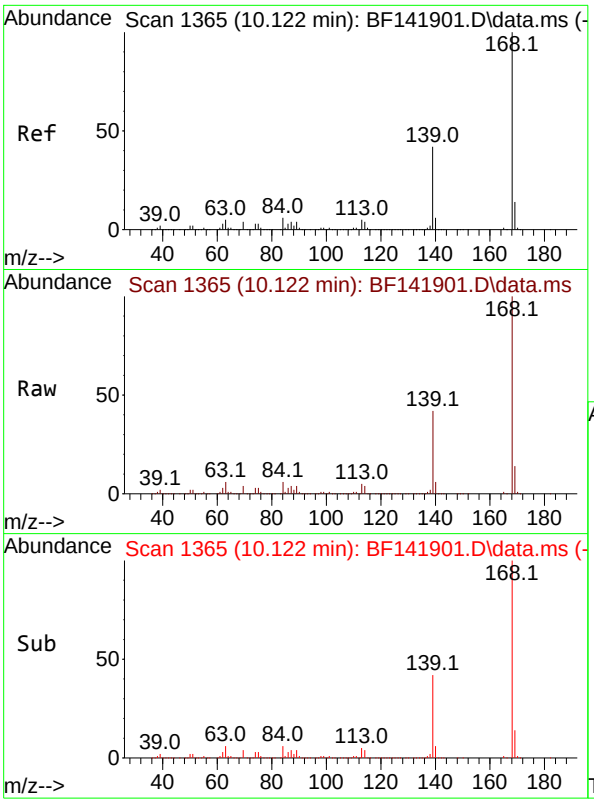


#54
2,4-Dinitrophenol
Concen: 38.116 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:184 Resp: 140024

Ion	Ratio	Lower	Upper
184	100		
63	75.3	60.2	90.4
154	166.1	132.9	199.3



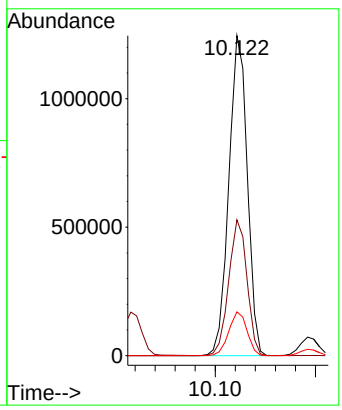


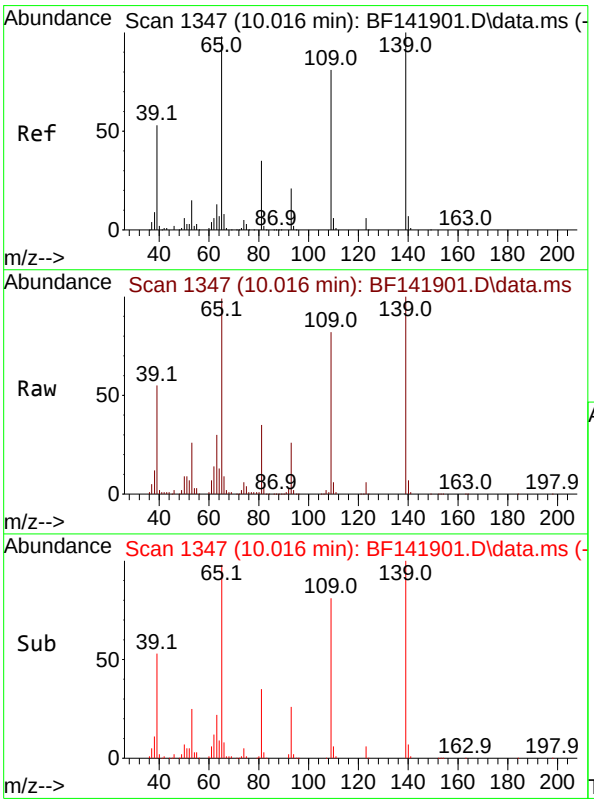
#55
Dibenzofuran
Concen: 38.266 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 1593454

Ion	Ratio	Lower	Upper
168	100		
139	42.4	33.9	50.9
169	13.7	11.0	16.4

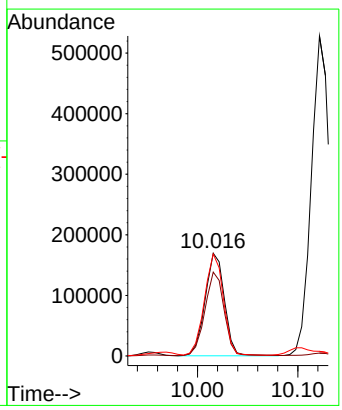


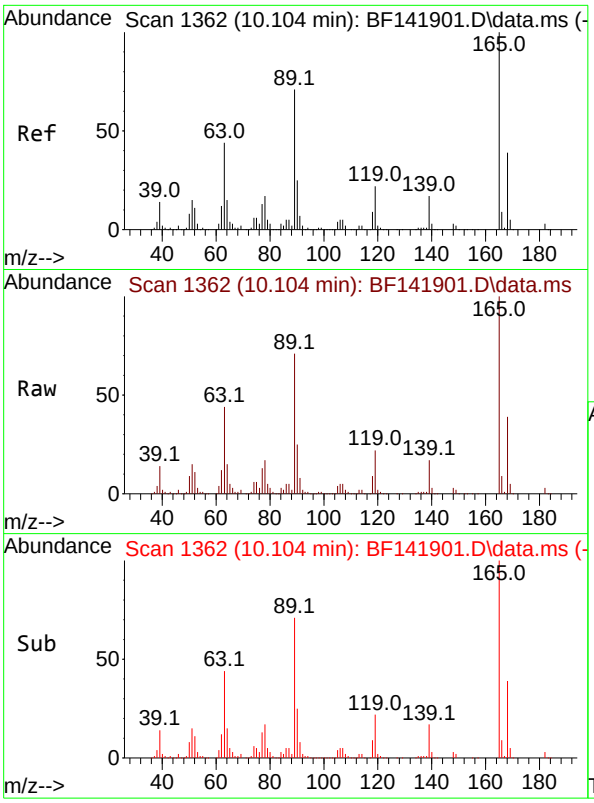


#56
4-Nitrophenol
Concen: 41.266 ng
RT: 10.016 min Scan# 1347
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:139 Resp: 227070

Ion	Ratio	Lower	Upper
139	100		
109	81.6	61.6	101.6
65	99.4	79.4	119.4



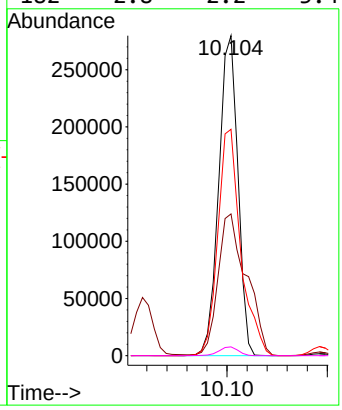


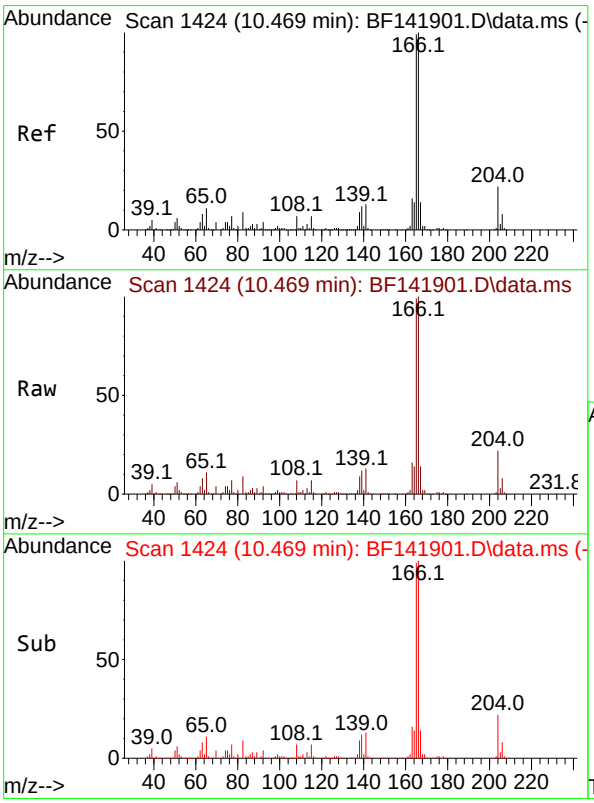
#57
2,4-Dinitrotoluene
Concen: 39.437 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 370337

Ion	Ratio	Lower	Upper
165	100		
63	44.3	35.4	53.2
89	70.7	56.6	84.8
182	2.8	2.2	3.4

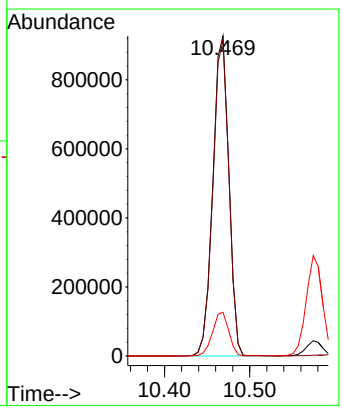


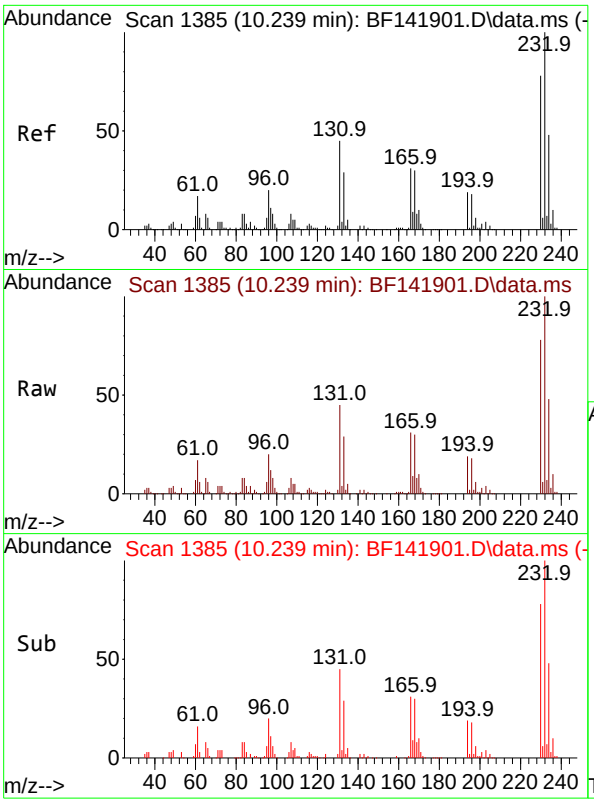


#58
Fluorene
Concen: 37.742 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:166 Resp: 1213316

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.0	118.4
167	13.7	11.0	16.4



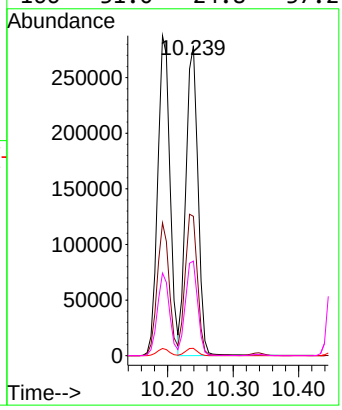


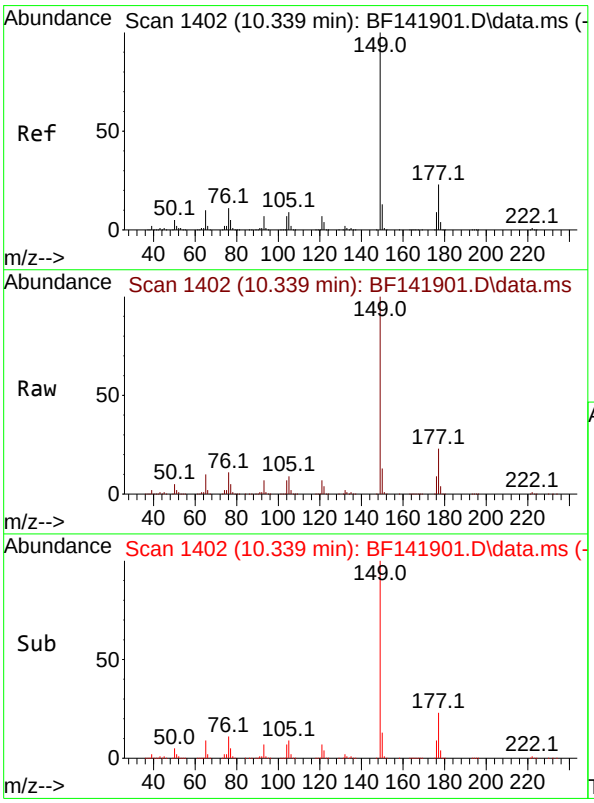
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.225 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 354863

Ion	Ratio	Lower	Upper
232	100		
131	46.6	37.3	55.9
130	2.4	1.9	2.9
166	31.0	24.8	37.2

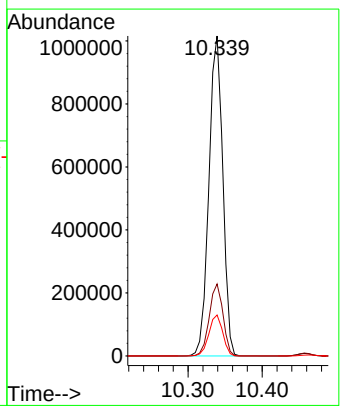


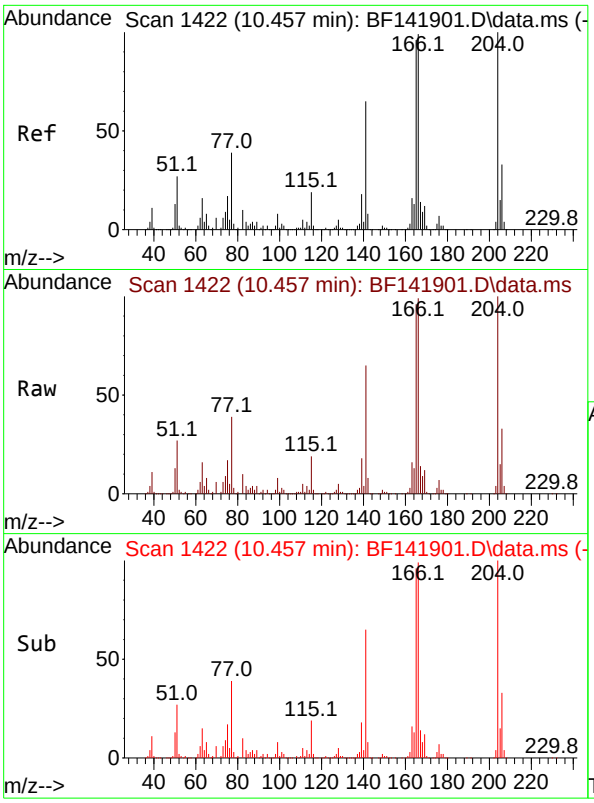


#60
Diethylphthalate
Concen: 38.304 ng
RT: 10.339 min Scan# 1402
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:149 Resp: 1319116

Ion	Ratio	Lower	Upper
149	100		
177	22.5	18.0	27.0
150	12.8	10.2	15.4



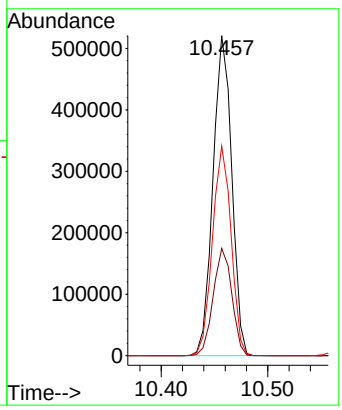


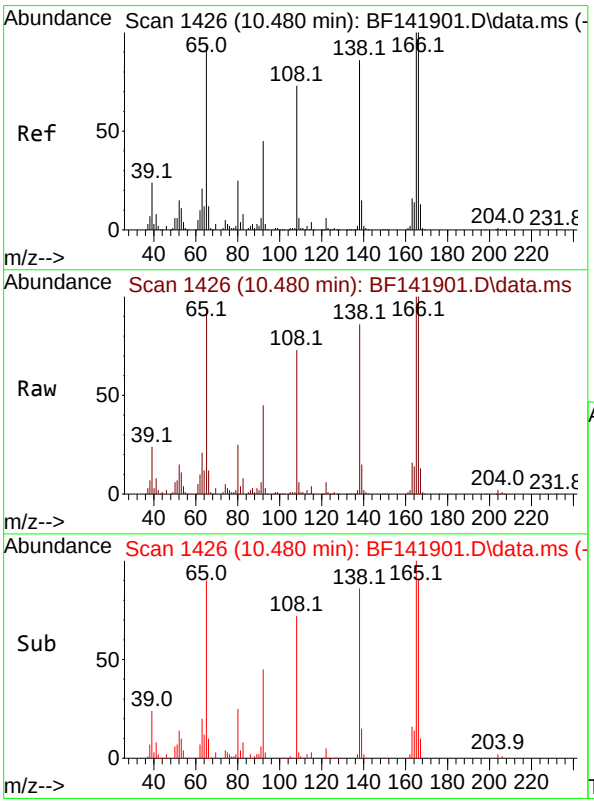
#61
4-Chlorophenyl-phenylether
Concen: 37.950 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 635445

Ion	Ratio	Lower	Upper
204	100		
206	33.5	26.8	40.2
141	65.5	52.4	78.6

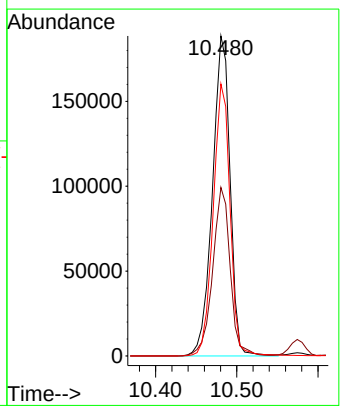


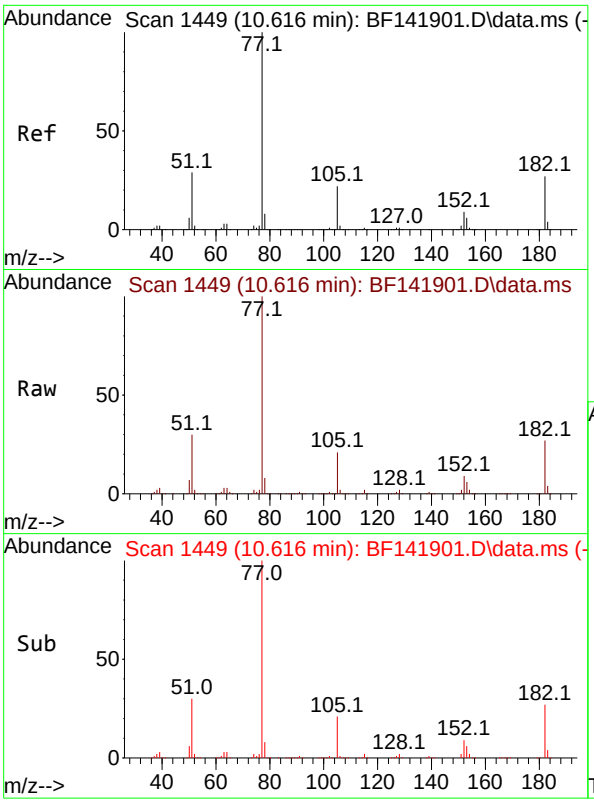


#62
4-Nitroaniline
Concen: 40.097 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:138 Resp: 284615

Ion	Ratio	Lower	Upper
138	100		
92	52.6	32.6	72.6
108	85.0	65.0	105.0



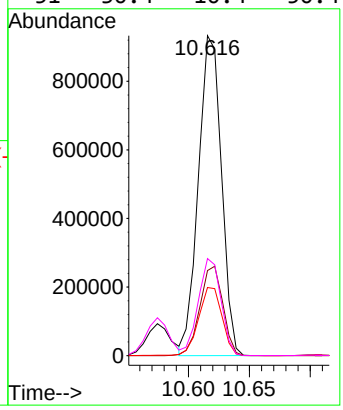


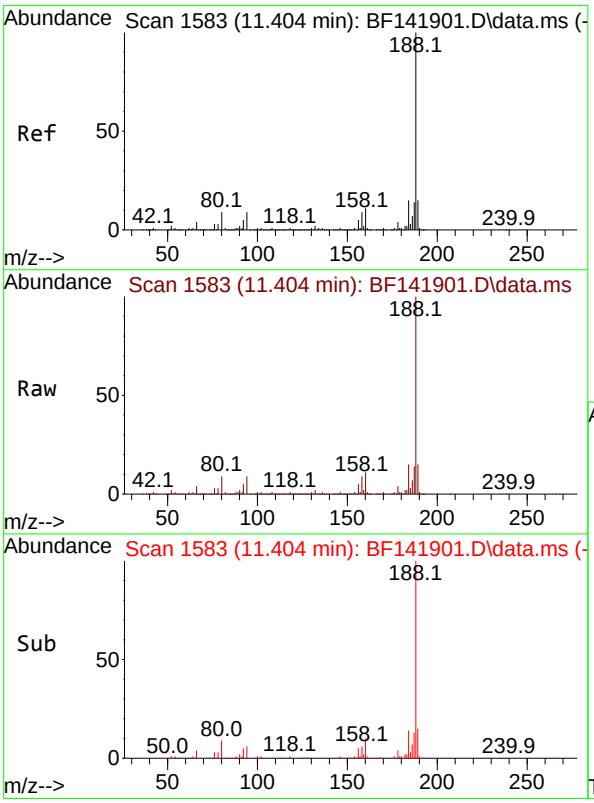
#63
Azobenzene
Concen: 38.432 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 1229473

Ion	Ratio	Lower	Upper
77	100		
182	26.6	6.6	46.6
105	21.3	1.3	41.3
51	30.4	10.4	50.4

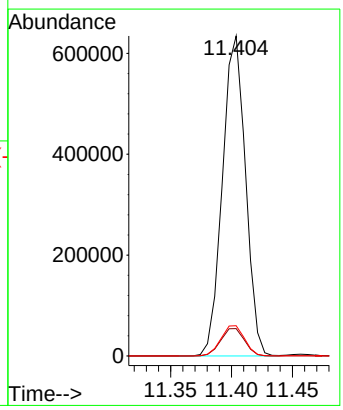


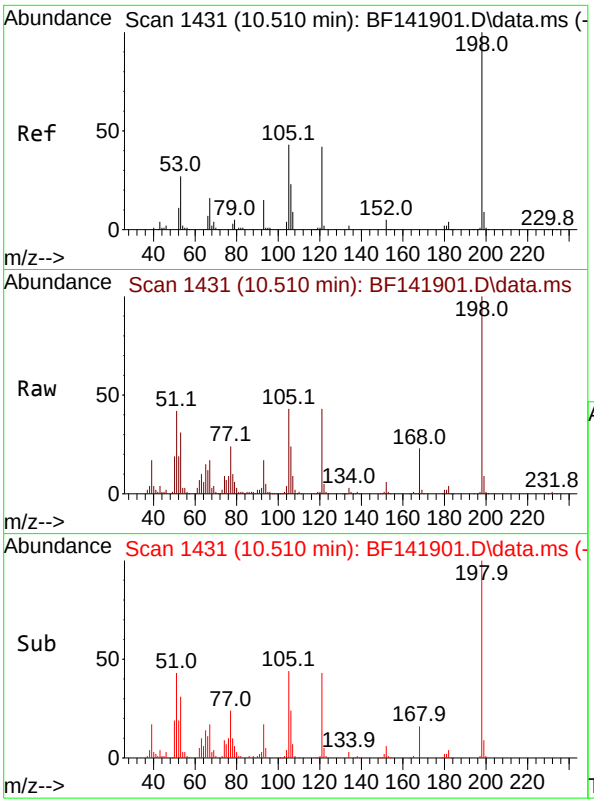


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:188 Resp: 839154

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.8	10.2
80	9.5	7.6	11.4



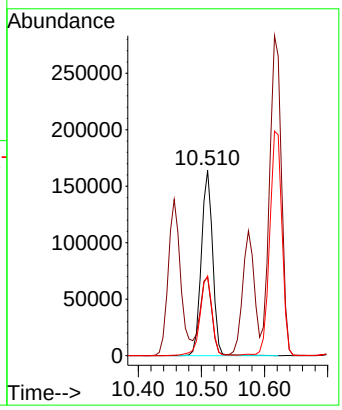


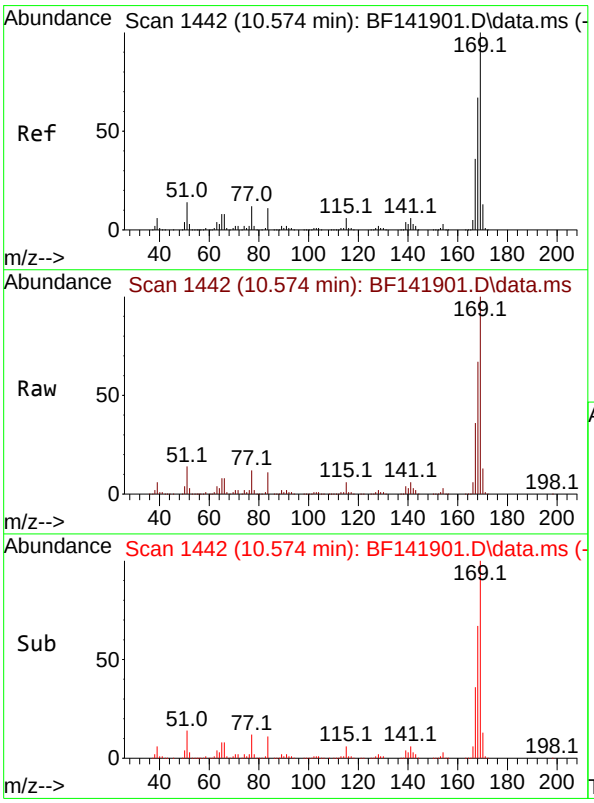
#65
4,6-Dinitro-2-methylphenol
Concen: 40.827 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 203106

Ion	Ratio	Lower	Upper
198	100		
51	42.3	22.3	62.3
105	43.0	23.0	63.0

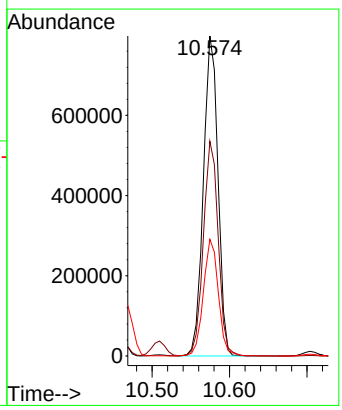


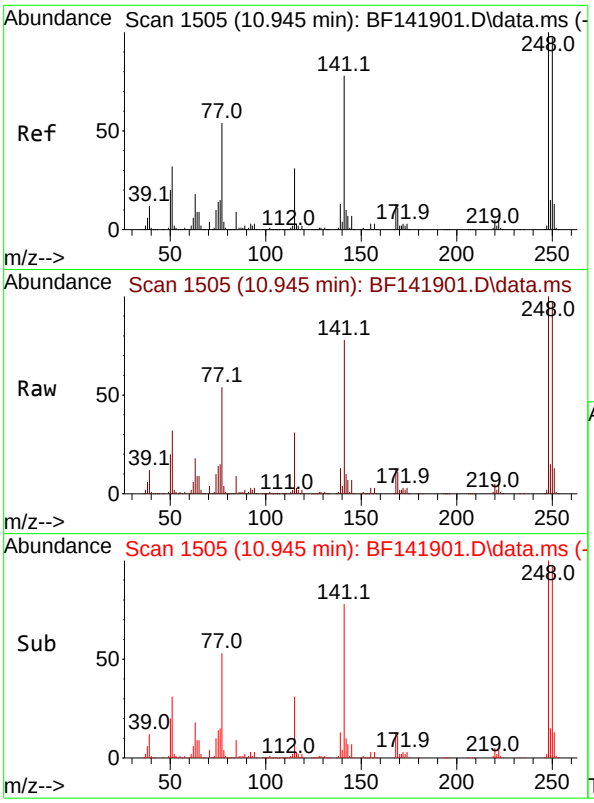


#66
n-Nitrosodiphenylamine
Concen: 38.415 ng
RT: 10.574 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:169 Resp: 1041349

Ion	Ratio	Lower	Upper
169	100		
168	67.1	53.7	80.5
167	36.5	29.2	43.8



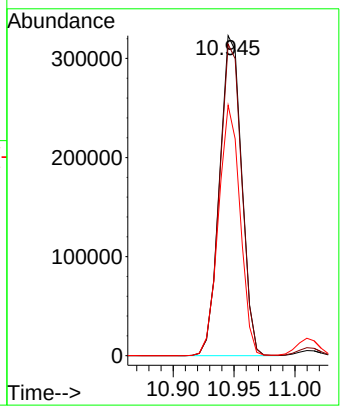


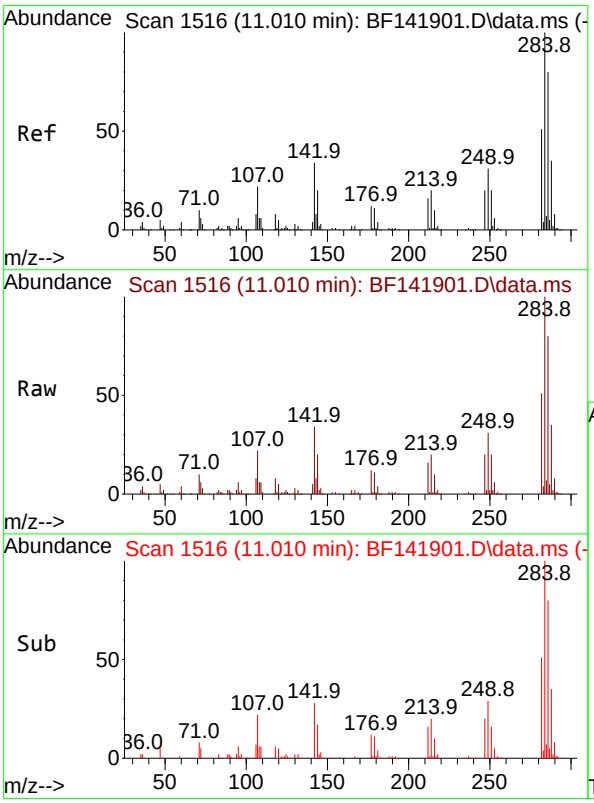
#67
4-Bromophenyl-phenylether
Concen: 39.195 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 409602

Ion	Ratio	Lower	Upper
248	100		
250	97.3	77.8	116.8
141	78.2	62.6	93.8

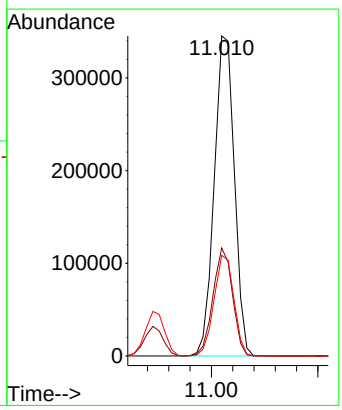


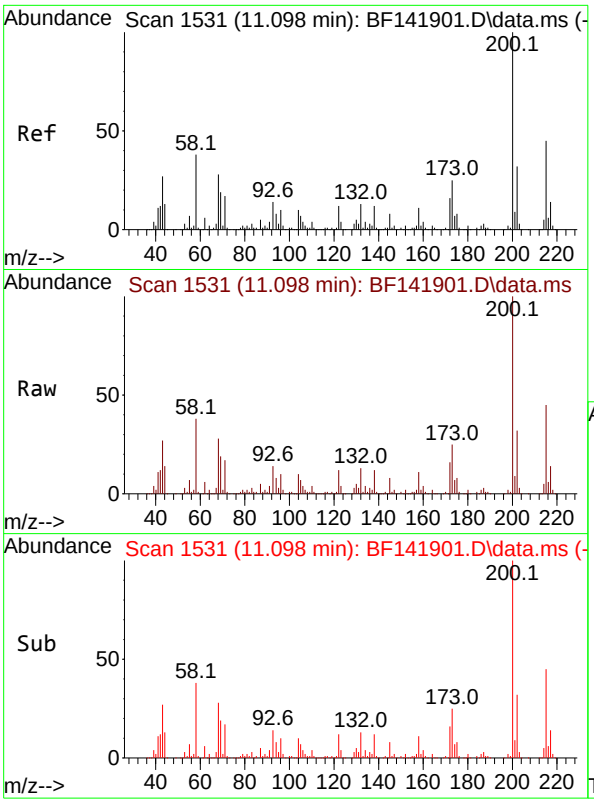


#68
Hexachlorobenzene
Concen: 39.146 ng
RT: 11.010 min Scan# 1516
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:284 Resp: 452189

Ion	Ratio	Lower	Upper
284	100		
142	33.8	27.0	40.6
249	31.5	25.2	37.8



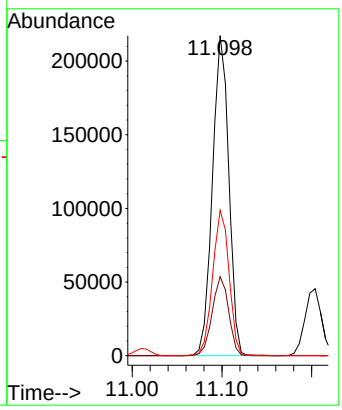


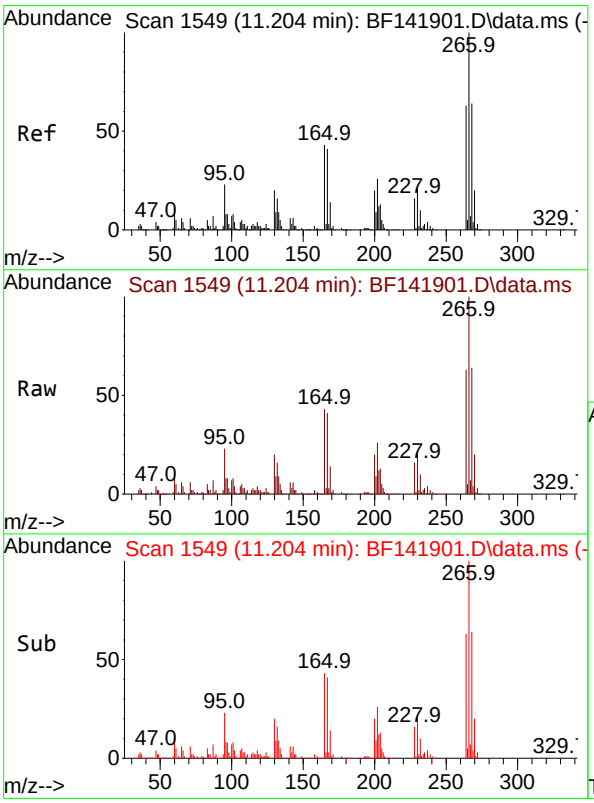
#69
Atrazine
Concen: 41.614 ng
RT: 11.098 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 275084

Ion	Ratio	Lower	Upper
200	100		
173	24.7	4.7	44.7
215	45.4	25.4	65.4

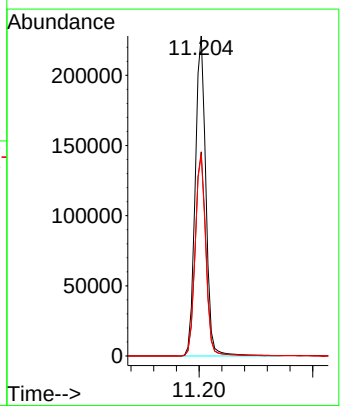


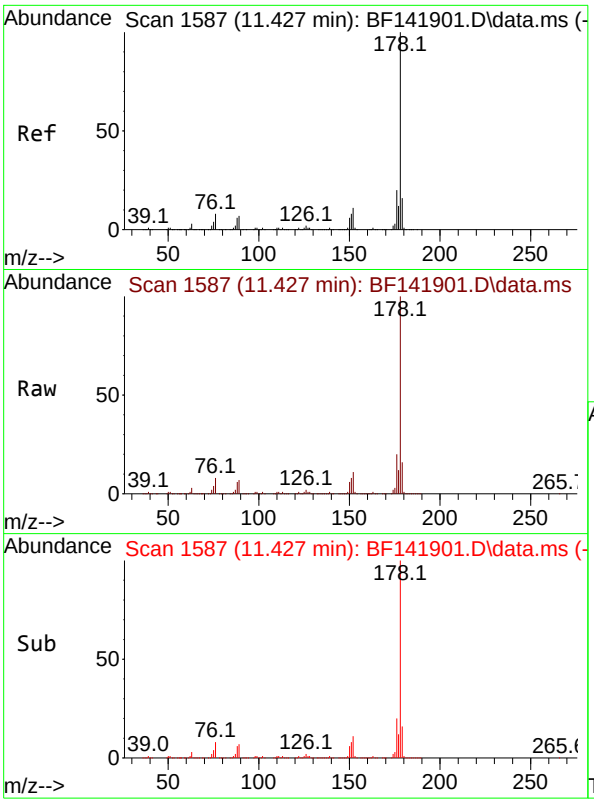


#70
Pentachlorophenol
Concen: 41.818 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:266 Resp: 297893

Ion	Ratio	Lower	Upper
266	100		
268	63.8	51.0	76.6
264	62.7	50.2	75.2



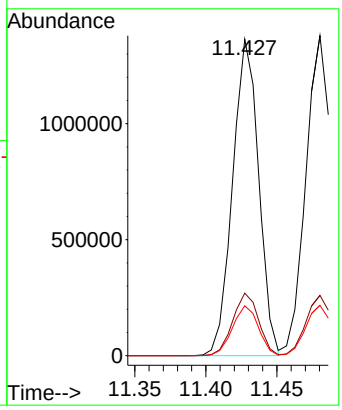


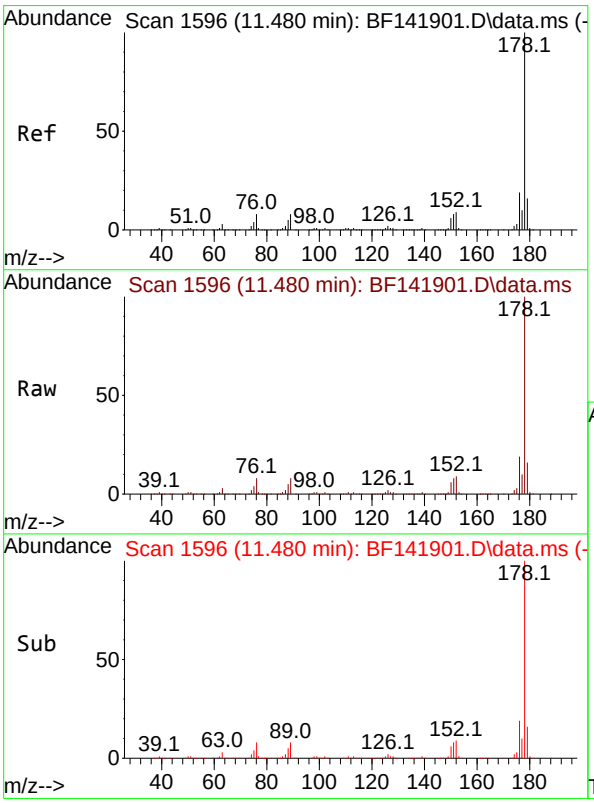
#71
Phenanthrene
Concen: 38.373 ng
RT: 11.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 1741309

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	15.8	12.6	19.0

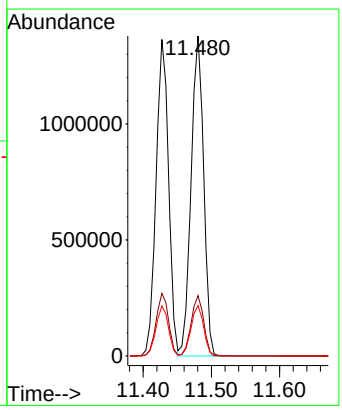


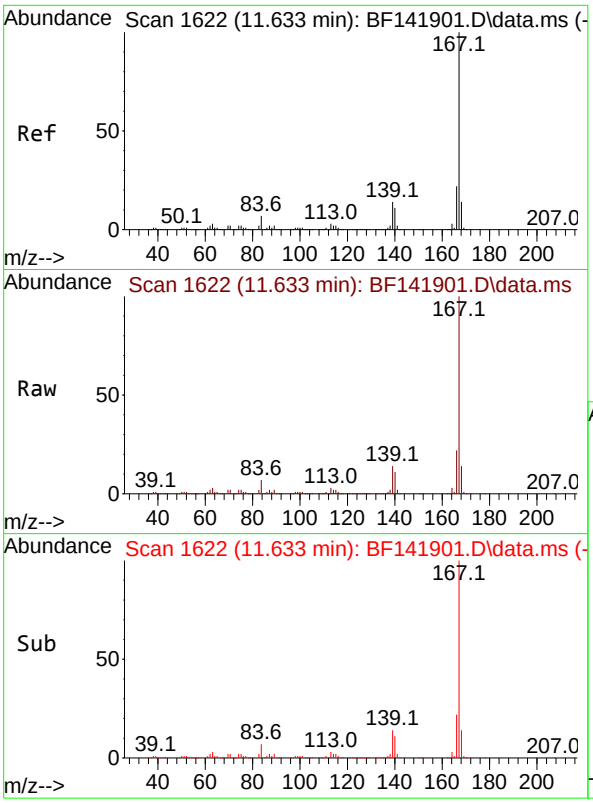


#72
Anthracene
Concen: 38.571 ng
RT: 11.480 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:178 Resp: 1756035

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.8	12.6	19.0



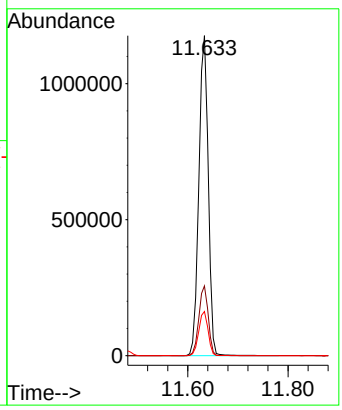


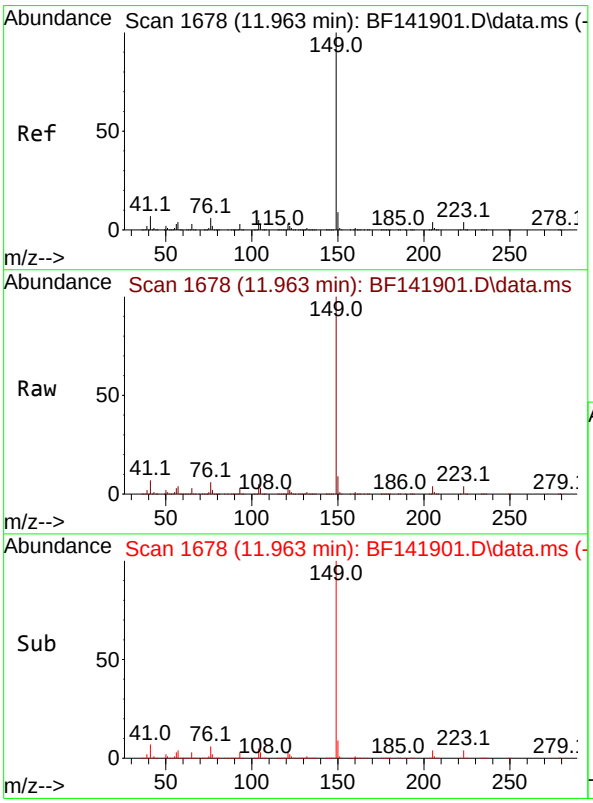
#73
Carbazole
Concen: 38.898 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 1524663

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.4	26.2
139	13.8	11.0	16.6

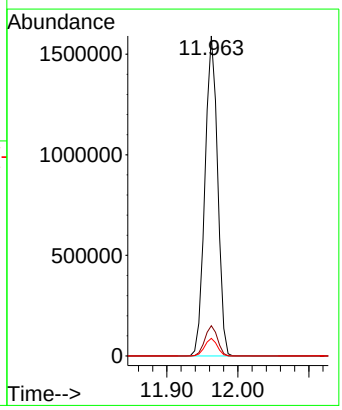


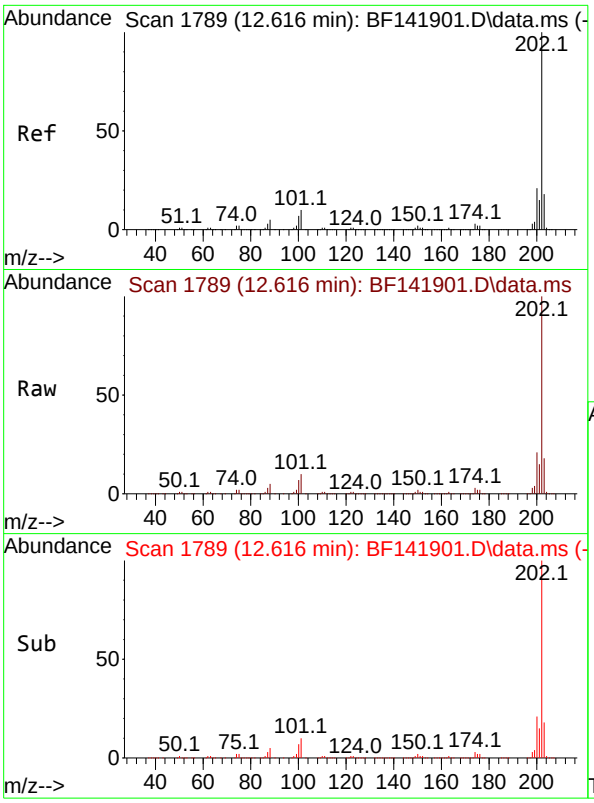


#74
Di-n-butylphthalate
Concen: 38.175 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:149 Resp: 1975625

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.6	11.4
104	5.5	4.4	6.6



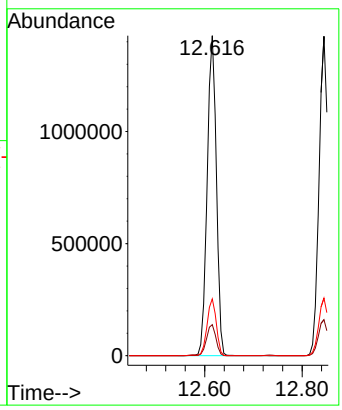


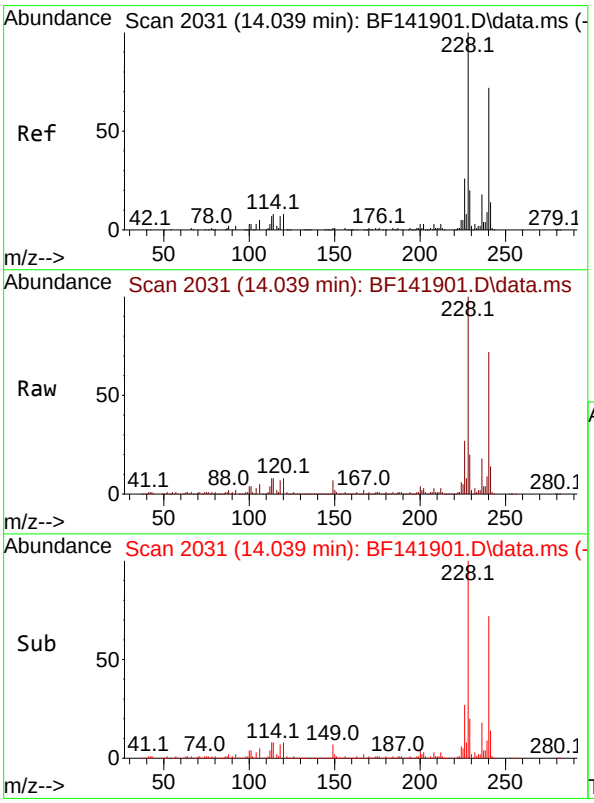
#75
Fluoranthene
Concen: 39.049 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 1860202

Ion	Ratio	Lower	Upper
202	100		
101	9.7	0.0	29.7
203	17.8	0.0	37.8

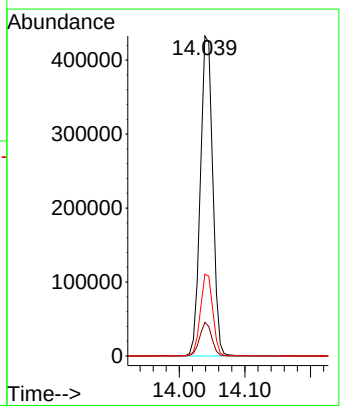


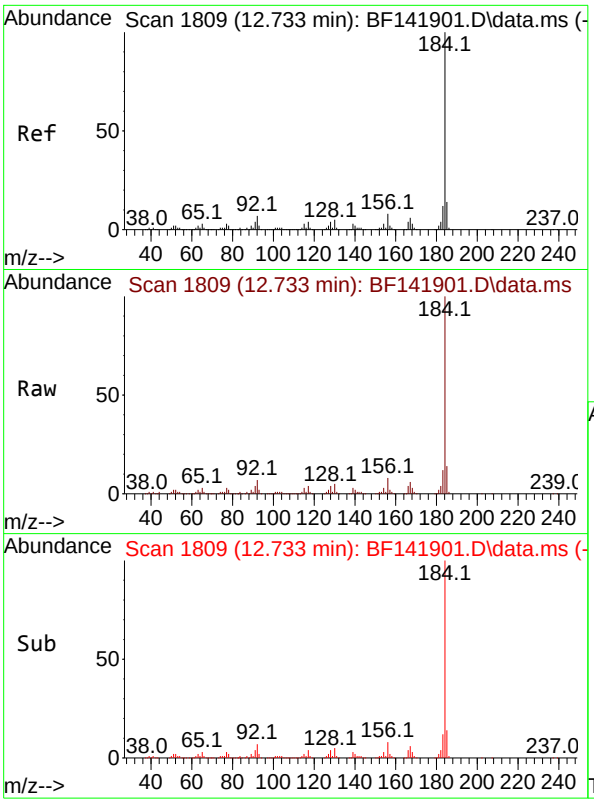


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:240 Resp: 569865

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.4	12.6
236	25.6	20.5	30.7



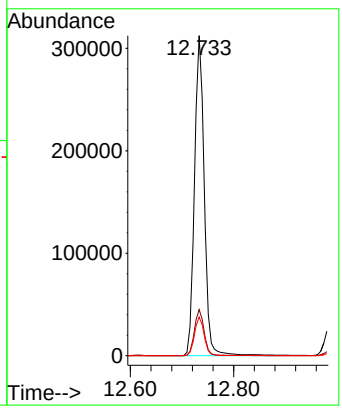


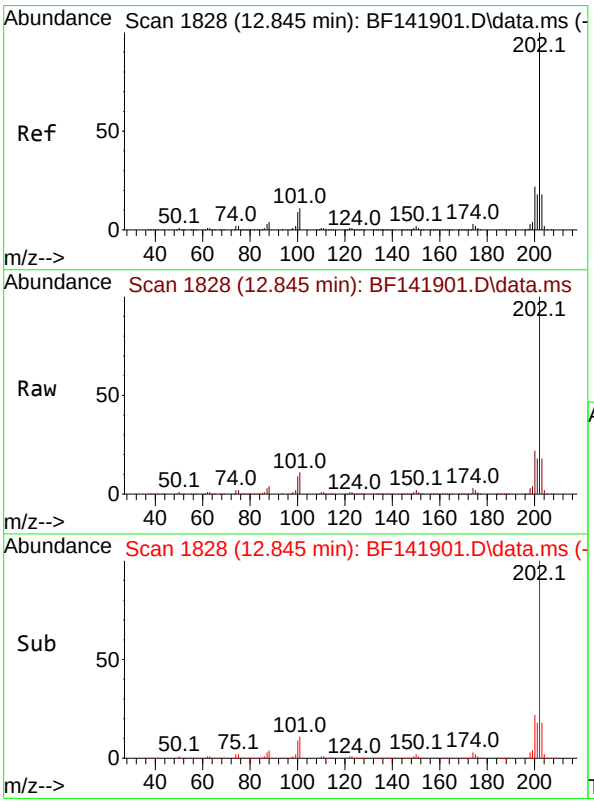
#77
Benzidine
Concen: 50.915 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 410026

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.5	17.3
183	12.1	9.7	14.5

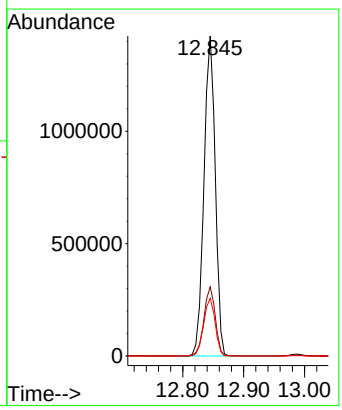


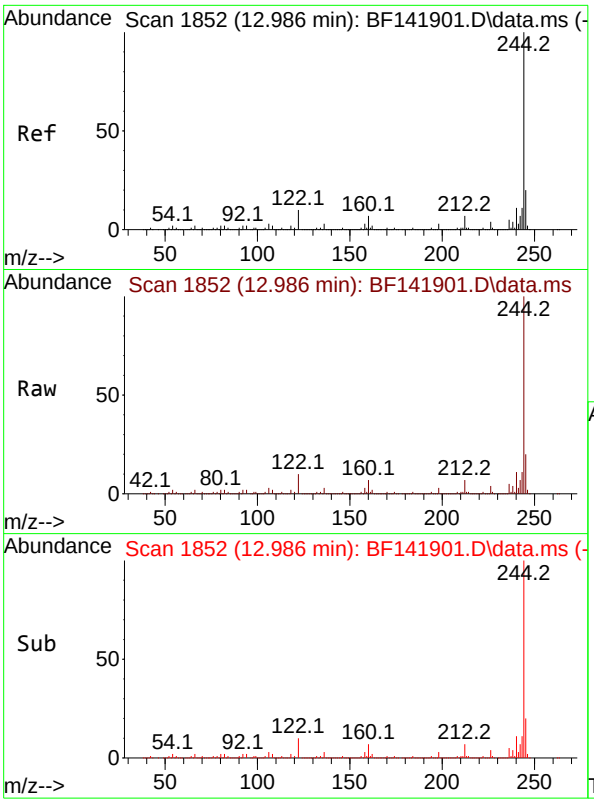


#78
Pyrene
Concen: 37.567 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:202 Resp: 1835917

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.3	25.9
203	18.0	14.4	21.6



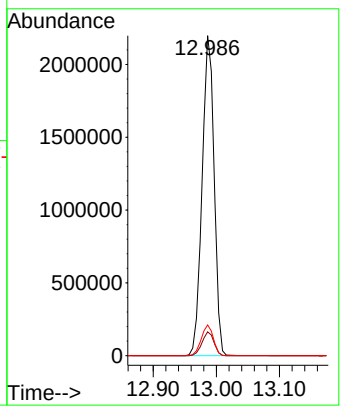


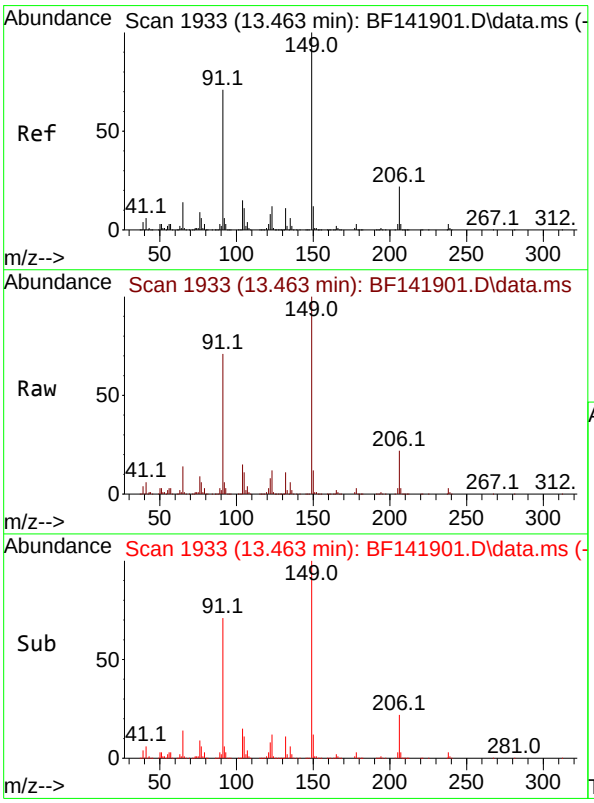
#79
Terphenyl-d14
Concen: 75.440 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 2908357

Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.0	9.0
122	9.6	7.7	11.5

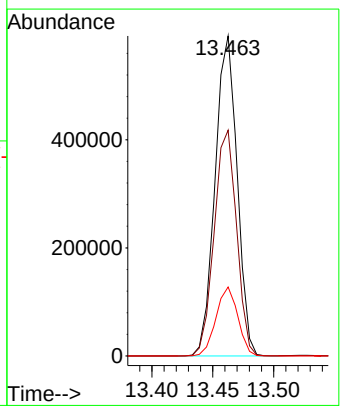


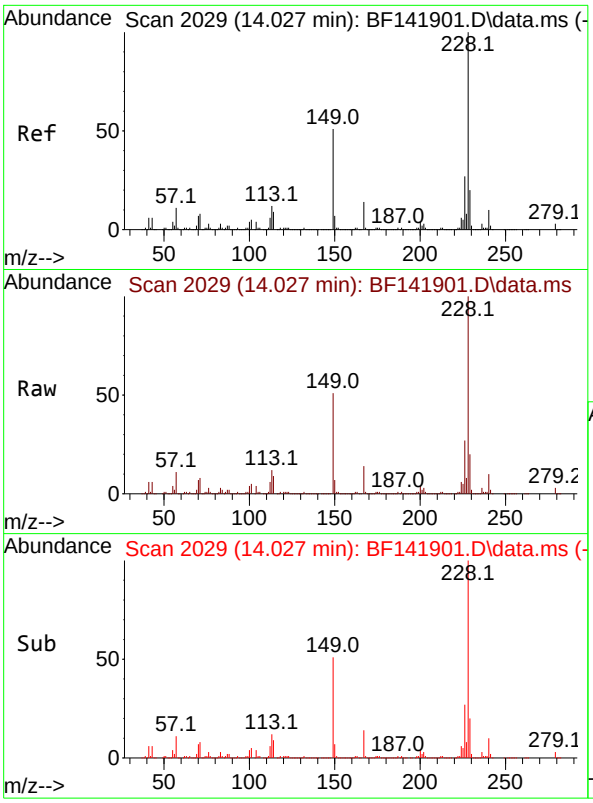


#80
Butylbenzylphthalate
Concen: 38.769 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:149 Resp: 746613

Ion	Ratio	Lower	Upper
149	100		
91	70.6	56.5	84.7
206	21.6	17.3	25.9



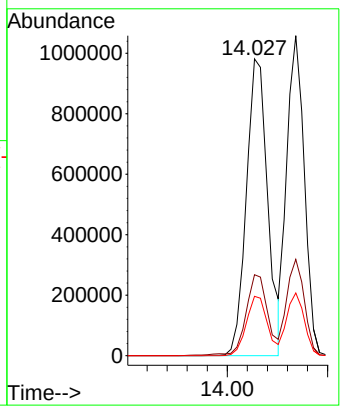


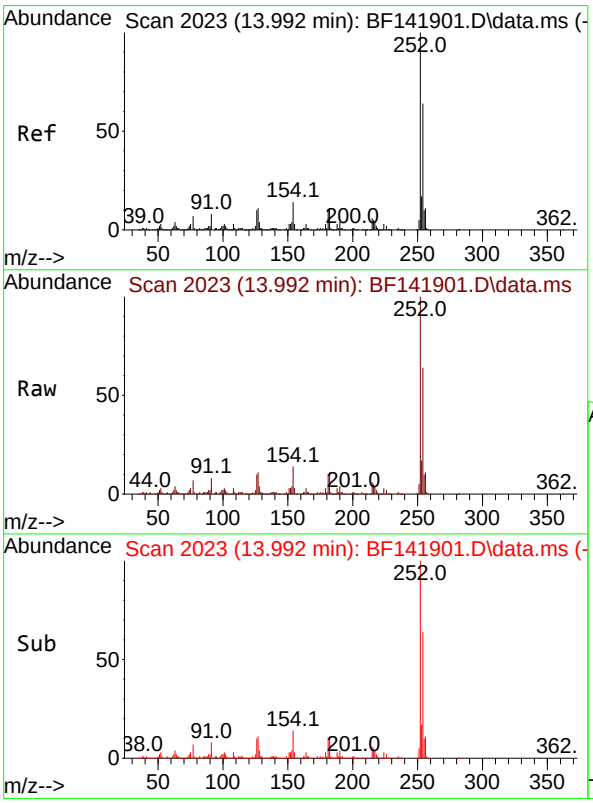
#81
Benzo(a)anthracene
Concen: 38.713 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 1451332

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	20.0	16.0	24.0

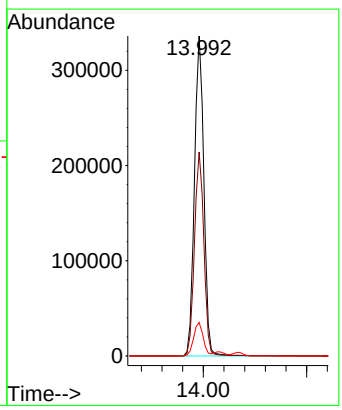


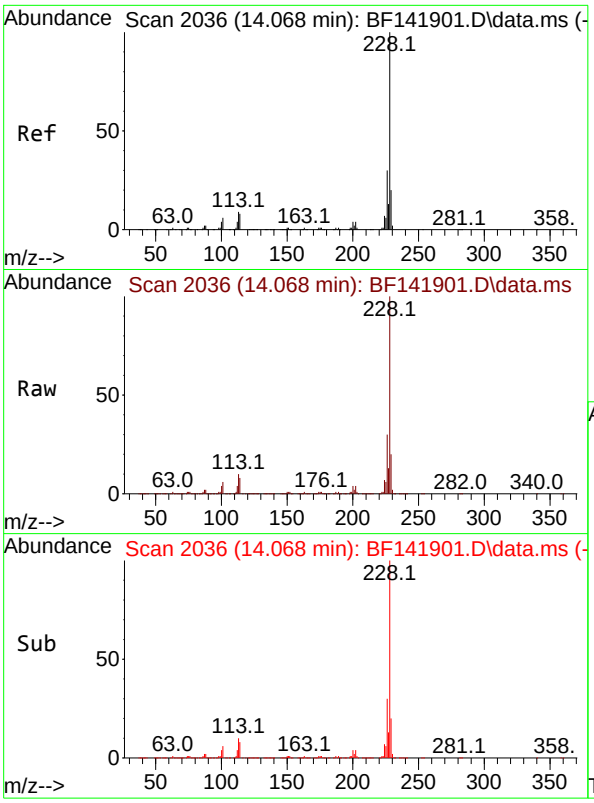


#82
3,3'-Dichlorobenzidine
Concen: 39.114 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:252 Resp: 423835

Ion	Ratio	Lower	Upper
252	100		
254	63.8	51.0	76.6
126	10.5	8.4	12.6



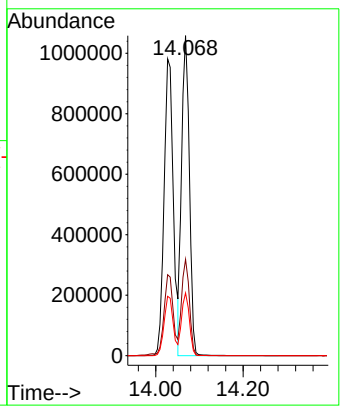


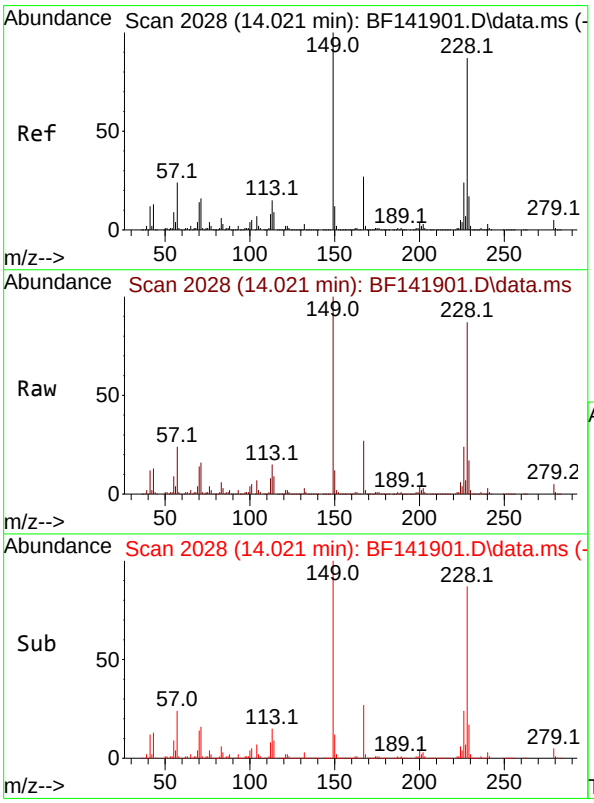
#83
Chrysene
Concen: 38.439 ng
RT: 14.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 1294538

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.1	36.1
229	19.6	15.7	23.5

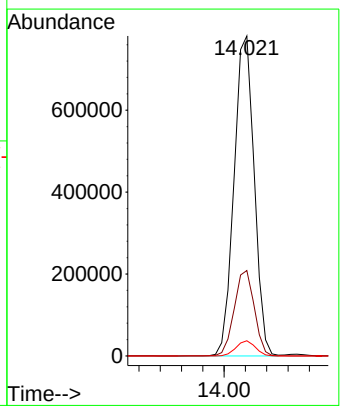


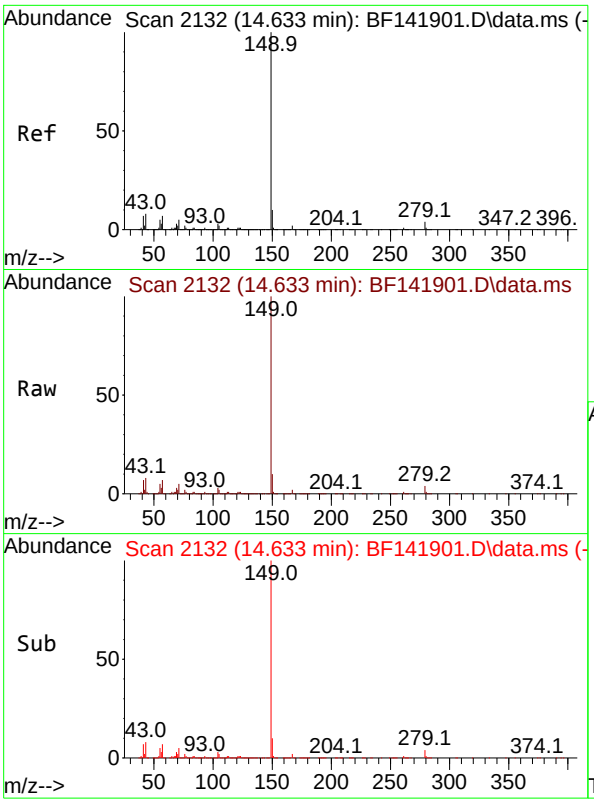


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.985 ng
RT: 14.021 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:149 Resp: 1029987

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.0
279	4.7	3.8	5.6



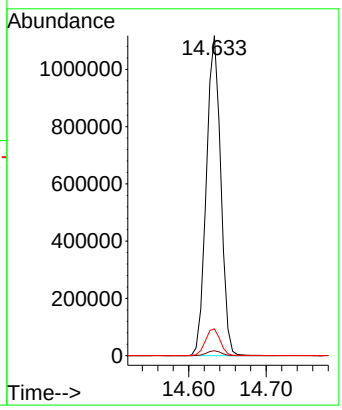


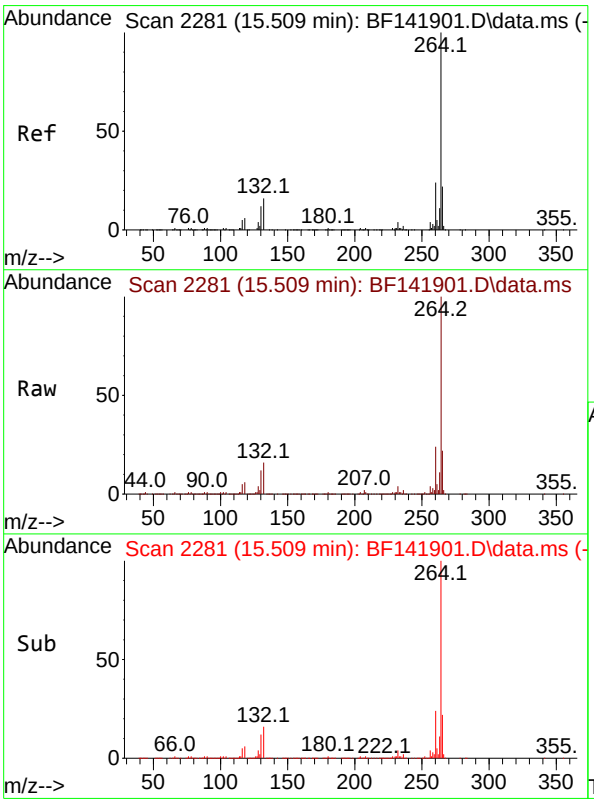
#85
Di-n-octyl phthalate
Concen: 39.193 ng
RT: 14.633 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 1441248

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.6	6.9	10.3

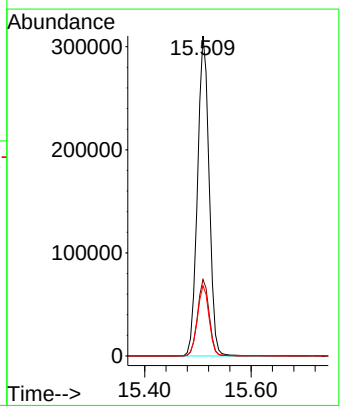


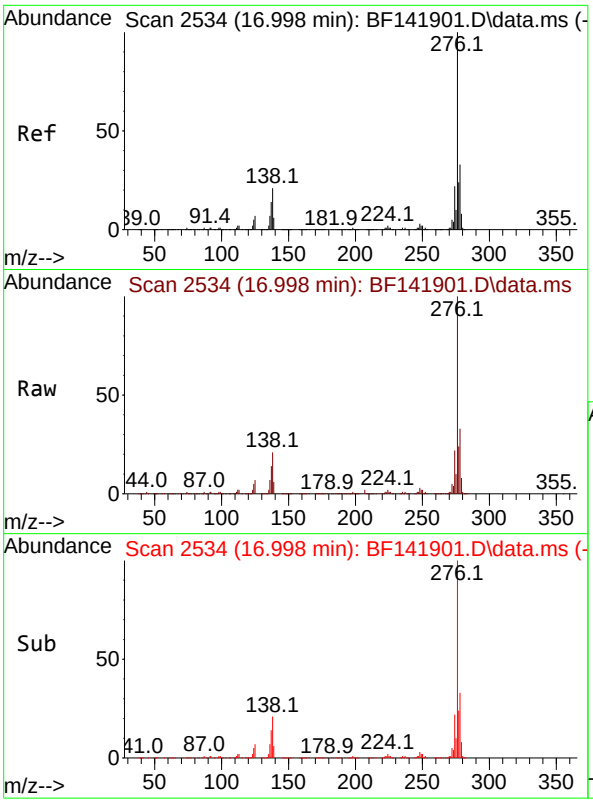


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:264 Resp: 469286

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	21.9	17.5	26.3



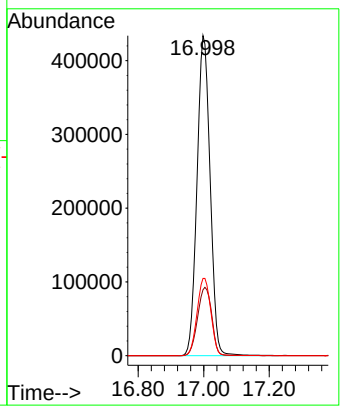


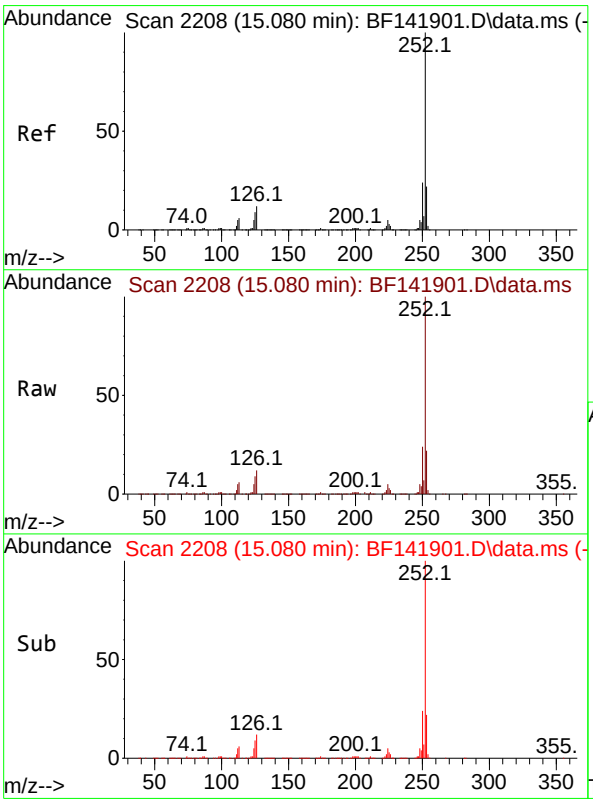
#87
Indeno(1,2,3-cd)pyrene
Concen: 39.681 ng
RT: 16.998 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 1207616

Ion	Ratio	Lower	Upper
276	100		
138	23.0	18.4	27.6
277	25.4	20.3	30.5

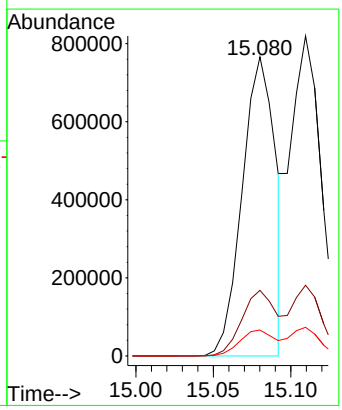


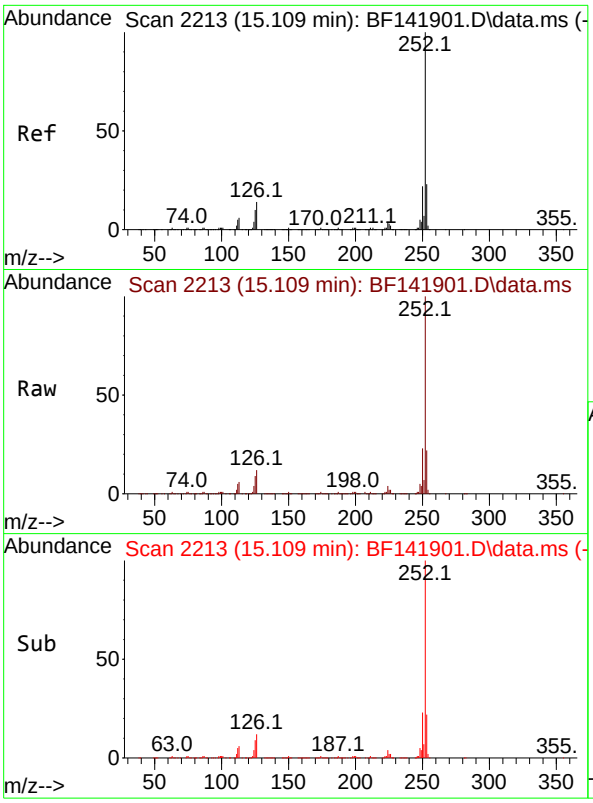


#88
Benzo(b)fluoranthene
Concen: 35.673 ng
RT: 15.080 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:252 Resp: 1135547

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	8.7	7.0	10.4



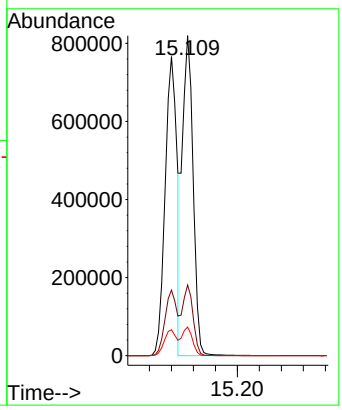


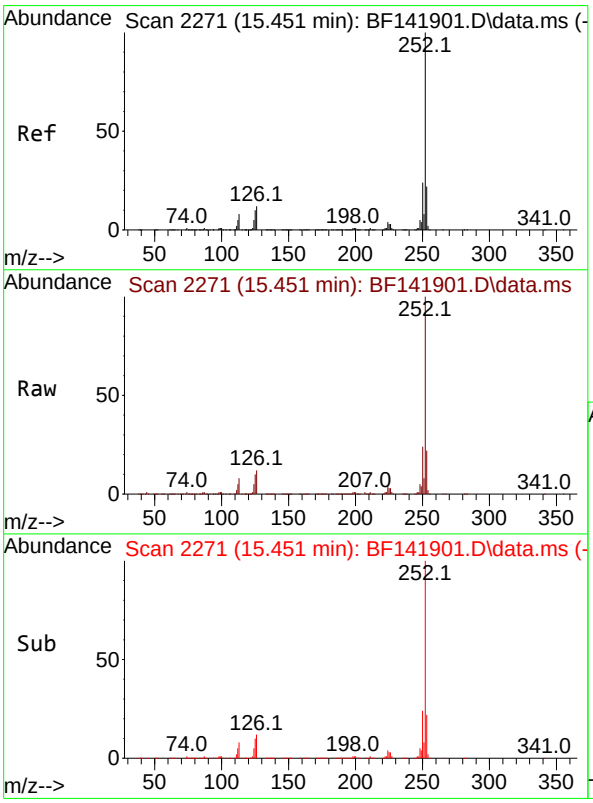
#89
Benzo(k)fluoranthene
Concen: 40.661 ng
RT: 15.109 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 1130615

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	9.0	7.2	10.8

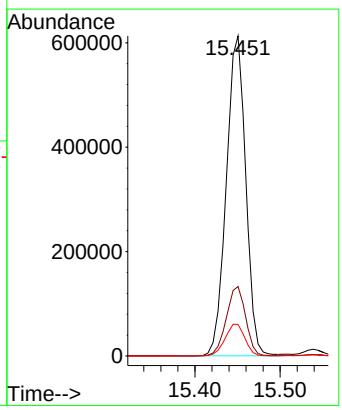


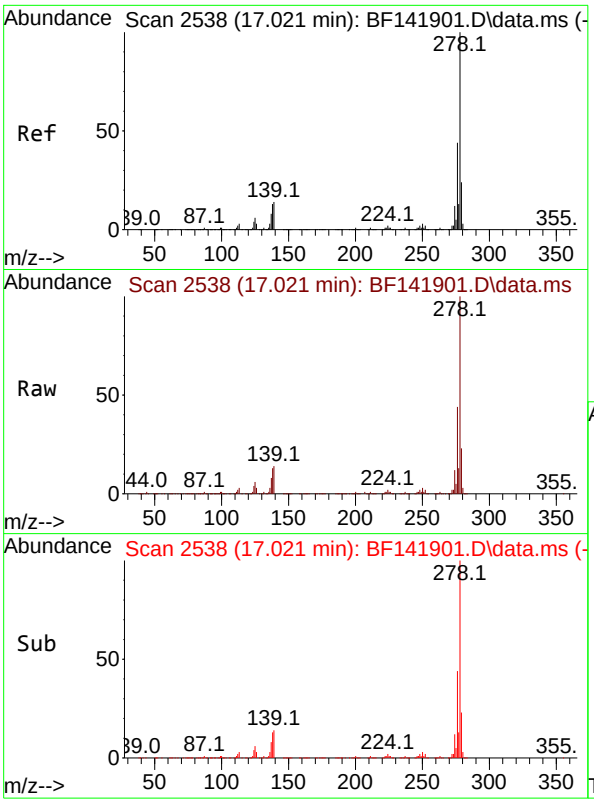


#90
Benzo(a)pyrene
Concen: 38.727 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:252 Resp: 972220

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	9.8	7.8	11.8



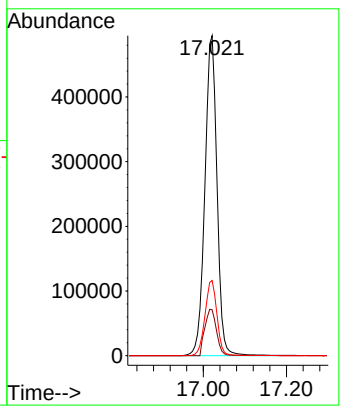


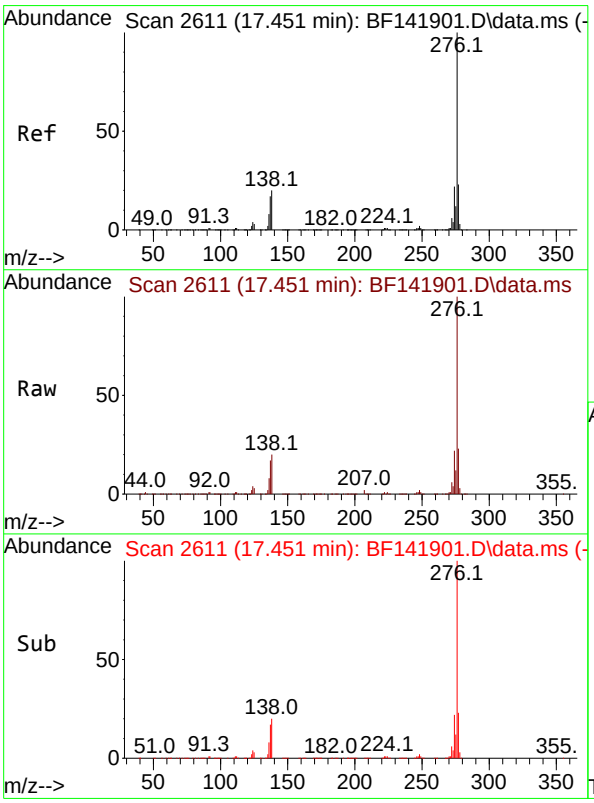
#91
Dibenzo(a,h)anthracene
Concen: 39.933 ng
RT: 17.021 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 1002747

Ion	Ratio	Lower	Upper
278	100		
139	14.3	11.4	17.2
279	23.5	18.8	28.2

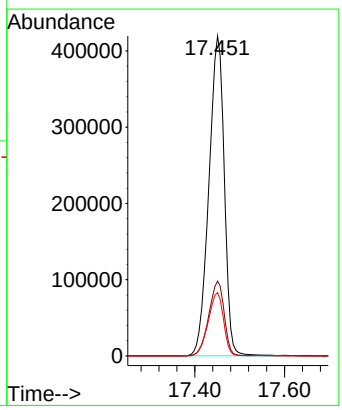




#92
Benzo(g,h,i)perylene
Concen: 40.149 ng
RT: 17.451 min Scan# 2611
Delta R.T. 0.000 min
Lab File: BF141901.D
Acq: 10 Mar 2025 12:58

Tgt Ion:276 Resp: 999947

Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.7	28.1
138	19.8	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141903.D
Acq On : 10 Mar 2025 13:57
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Mar 10 15:37:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	216861	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	872222	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	497194	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	827202	20.000	ng		0.00
76) Chrysene-d12	14.045	240	468454	20.000	ng		0.00
86) Perylene-d12	15.509	264	407346	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	1490872	114.705	ng		0.00
7) Phenol-d6	6.510	99	1913610	115.601	ng		0.00
23) Nitrobenzene-d5	7.451	82	1899726	122.074	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	791365	125.609	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	3716590	113.827	ng		0.00
79) Terphenyl-d14	12.992	244	3982780	125.675	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.669	88	325927	59.832	ng		99
3) Pyridine	3.440	79	786537	58.753	ng		99
4) n-Nitrosodimethylamine	3.404	42	386646	60.759	ng		100
6) Aniline	6.551	93	933875	57.146	ng		99
8) 2-Chlorophenol	6.669	128	835549	58.000	ng		97
9) Benzaldehyde	6.434	77	465511	50.311	ng		100
10) Phenol	6.528	94	996848	57.074	ng		95
11) bis(2-Chloroethyl)ether	6.622	93	765071	58.464	ng		99
12) 1,3-Dichlorobenzene	6.828	146	911340	58.540	ng		99
13) 1,4-Dichlorobenzene	6.904	146	923545	58.635	ng		99
14) 1,2-Dichlorobenzene	7.057	146	873604	58.898	ng		99
15) Benzyl Alcohol	7.028	79	810347	60.480	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	957808	60.730	ng		99
17) 2-Methylphenol	7.134	107	701676	61.285	ng		99
18) Hexachloroethane	7.398	117	364561	61.734	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	644501	60.576	ng		99
20) 3+4-Methylphenols	7.292	107	868157	59.116	ng	#	81
22) Acetophenone	7.298	105	1226859	58.635	ng		97
24) Nitrobenzene	7.469	77	939508	60.889	ng		100
25) Isophorone	7.710	82	1695749	61.720	ng		100
26) 2-Nitrophenol	7.781	139	491301	64.978	ng		98
27) 2,4-Dimethylphenol	7.816	122	639505	61.408	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	1039951	60.422	ng		99
29) 2,4-Dichlorophenol	8.022	162	791904	61.272	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	870403	61.044	ng		99
31) Naphthalene	8.186	128	2545181	56.961	ng		99
32) Benzoic acid	7.951	122	634105	69.664	ng		99
33) 4-Chloroaniline	8.233	127	920015	58.348	ng		99
34) Hexachlorobutadiene	8.304	225	559955	60.397	ng		99
35) Caprolactam	8.628	113	235861	60.015	ng		95
36) 4-Chloro-3-methylphenol	8.716	107	874022	60.807	ng		98
37) 2-Methylnaphthalene	8.875	142	1744374	58.187	ng		99
38) 1-Methylnaphthalene	8.975	142	1692113	58.285	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	903928	59.627	ng		99
41) Hexachlorocyclopentadiene	9.028	237	375919	62.842	ng		100
43) 2,4,6-Trichlorophenol	9.151	196	597686	60.479	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141903.D
Acq On : 10 Mar 2025 13:57
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Mar 10 15:37:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

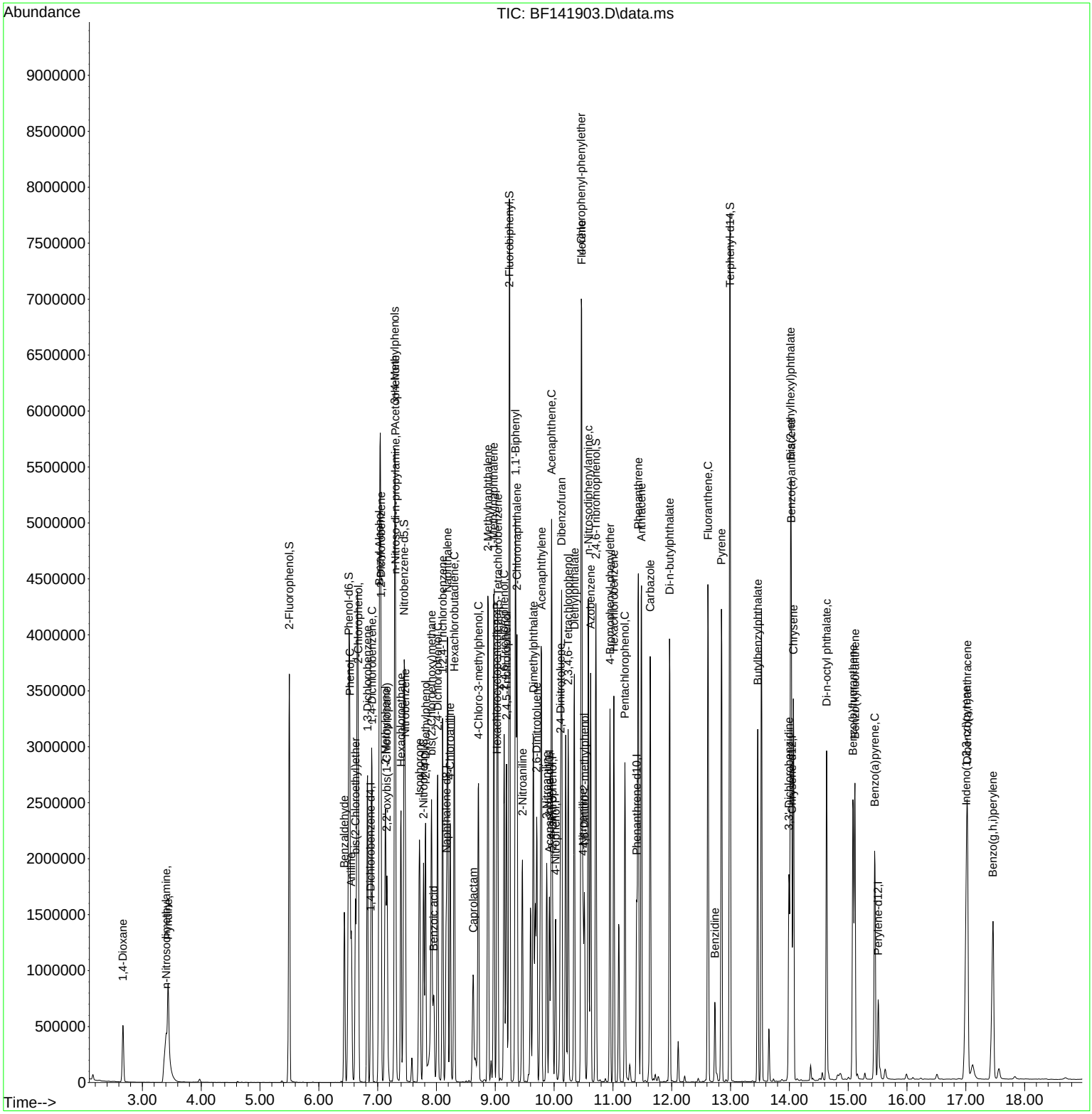
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	618930	61.642	ng		99
46) 1,1'-Biphenyl	9.345	154	2134829	56.634	ng		99
47) 2-Chloronaphthalene	9.369	162	1625973	57.879	ng		100
48) 2-Nitroaniline	9.463	65	495229	61.368	ng		99
49) Acenaphthylene	9.786	152	2379216	57.125	ng		99
50) Dimethylphthalate	9.651	163	2006480	58.083	ng		100
51) 2,6-Dinitrotoluene	9.704	165	441383	61.441	ng		99
52) Acenaphthene	9.957	154	1737049	59.065	ng		99
53) 3-Nitroaniline	9.875	138	449553	60.945	ng		100
54) 2,4-Dinitrophenol	9.975	184	240530	60.329	ng	#	74
55) Dibenzofuran	10.127	168	2380973	56.781	ng		100
56) 4-Nitrophenol	10.027	139	343657	62.021	ng		98
57) 2,4-Dinitrotoluene	10.110	165	571731	60.461	ng		98
58) Fluorene	10.469	166	1840654	56.859	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	546621	60.002	ng		100
60) Diethylphthalate	10.345	149	1995827	57.552	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	977819	57.993	ng		97
62) 4-Nitroaniline	10.492	138	426741	59.702	ng		100
63) Azobenzene	10.622	77	1829282	56.784	ng		98
65) 4,6-Dinitro-2-methylph...	10.516	198	330315	67.356	ng		98
66) n-Nitrosodiphenylamine	10.580	169	1583832	59.270	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	608246	59.044	ng		98
68) Hexachlorobenzene	11.016	284	673465	59.144	ng		97
70) Pentachlorophenol	11.204	266	462709	65.893	ng		100
71) Phenanthrene	11.433	178	2560092	57.232	ng		100
72) Anthracene	11.486	178	2570717	57.281	ng		100
73) Carbazole	11.633	167	2213331	57.284	ng		99
74) Di-n-butylphthalate	11.963	149	2916048	57.161	ng		99
75) Fluoranthene	12.616	202	2628993	55.984	ng		99
77) Benzidine	12.733	184	386007	58.309	ng		99
78) Pyrene	12.845	202	2562337	63.781	ng		99
80) Butylbenzylphthalate	13.463	149	1008043	63.676	ng		100
81) Benzo(a)anthracene	14.033	228	1850347	60.040	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	553078	62.091	ng		100
83) Chrysene	14.068	228	1705257	61.596	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	1337474	61.582	ng		99
85) Di-n-octyl phthalate	14.633	149	1953184	64.613	ng		99
87) Indeno(1,2,3-cd)pyrene	17.009	276	1799372	68.115	ng		100
88) Benzo(b)fluoranthene	15.080	252	1698744	61.481	ng		99
89) Benzo(k)fluoranthene	15.115	252	1478389	61.253	ng		100
90) Benzo(a)pyrene	15.451	252	1323726	60.747	ng		99
91) Dibenzo(a,h)anthracene	17.027	278	1459934	66.981	ng		99
92) Benzo(g,h,i)perylene	17.462	276	1425582	65.942	ng		99

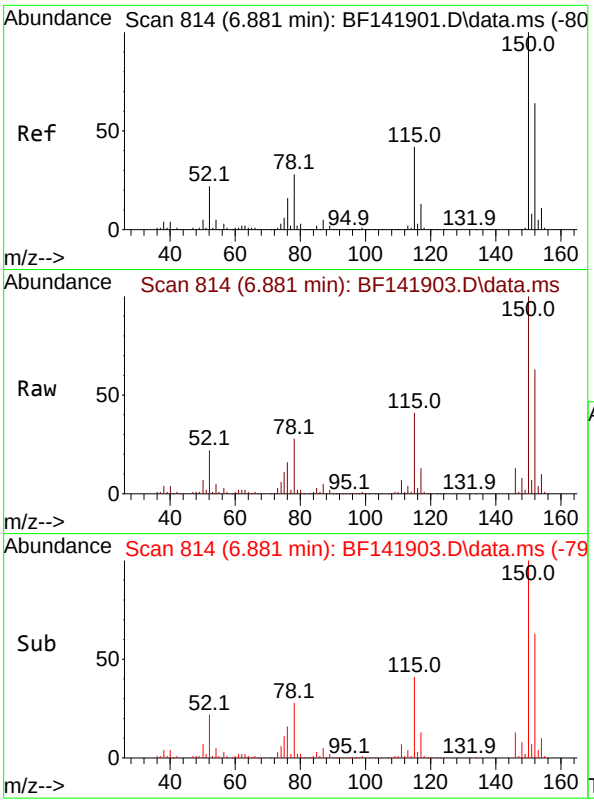
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141903.D
Acq On : 10 Mar 2025 13:57
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Mar 10 15:37:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration



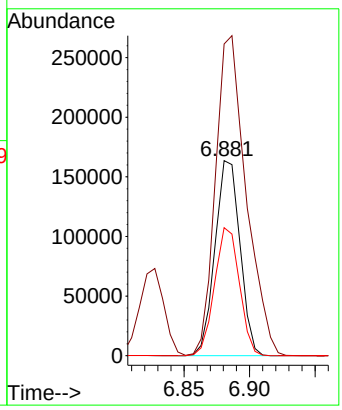


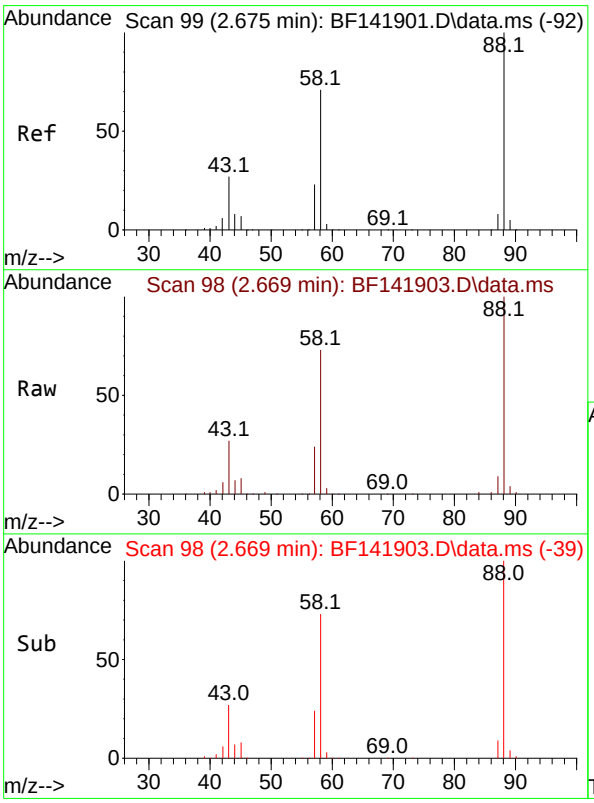
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 216861

Ion	Ratio	Lower	Upper
152	100		
150	159.8	127.4	191.2
115	65.7	51.9	77.9

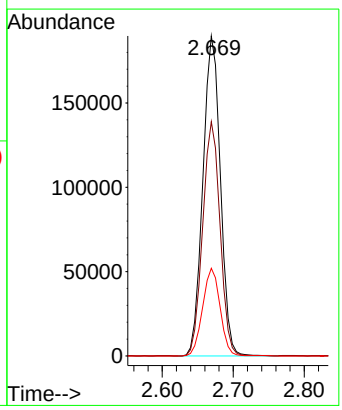


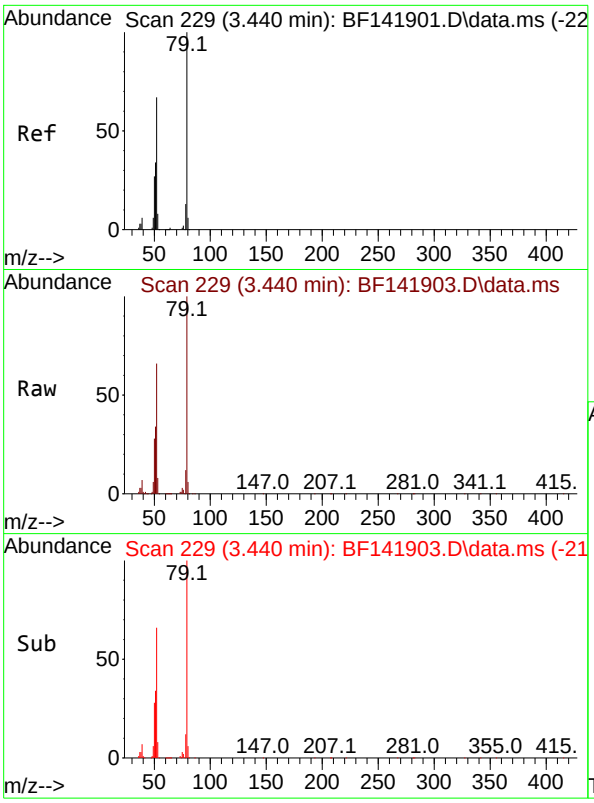


#2
1,4-Dioxane
Concen: 59.832 ng
RT: 2.669 min Scan# 98
Delta R.T. -0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion: 88 Resp: 325927

Ion	Ratio	Lower	Upper
88	100		
58	72.5	57.4	86.2
43	27.4	21.5	32.3



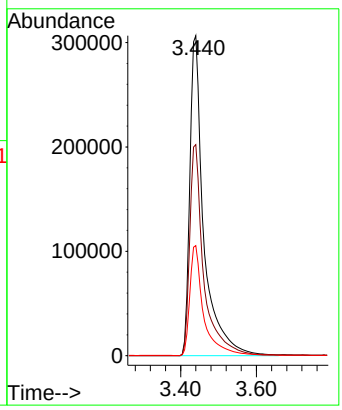


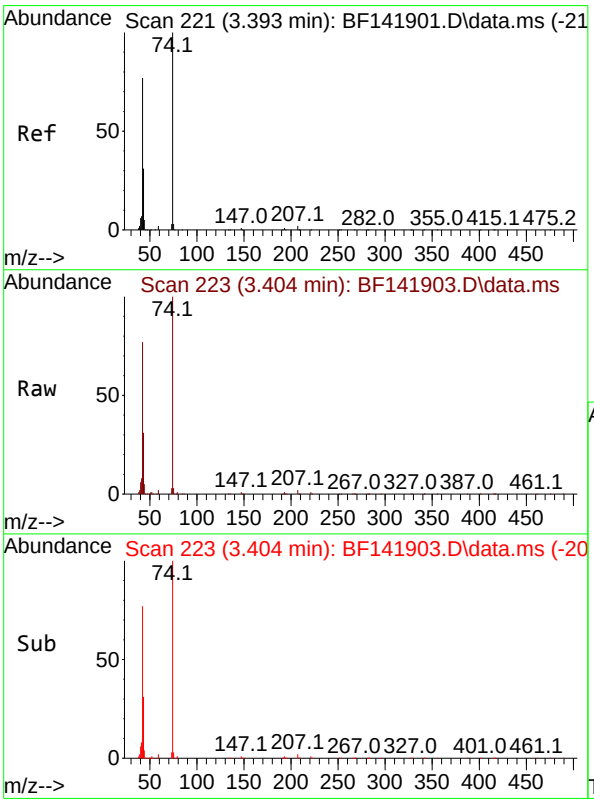
#3
Pyridine
Concen: 58.753 ng
RT: 3.440 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 786537

Ion	Ratio	Lower	Upper
79	100		
52	65.9	53.3	79.9
51	34.4	27.6	41.4

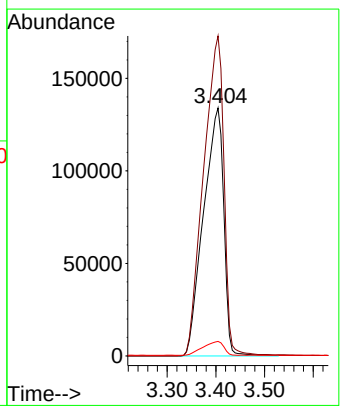


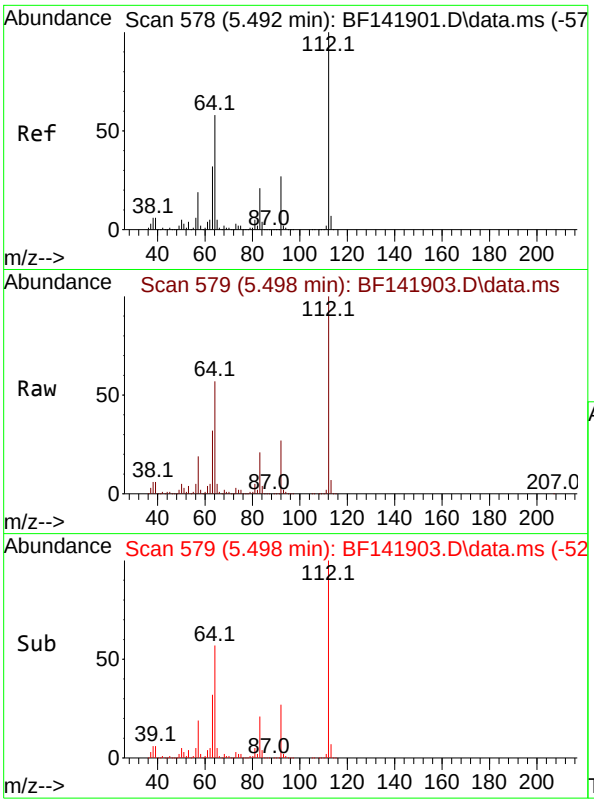


#4
n-Nitrosodimethylamine
Concen: 60.759 ng
RT: 3.404 min Scan# 223
Delta R.T. 0.012 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion: 42 Resp: 386646

Ion	Ratio	Lower	Upper
42	100		
74	129.0	103.4	155.0
44	5.8	5.0	7.4



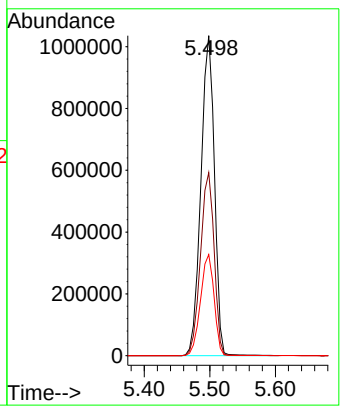


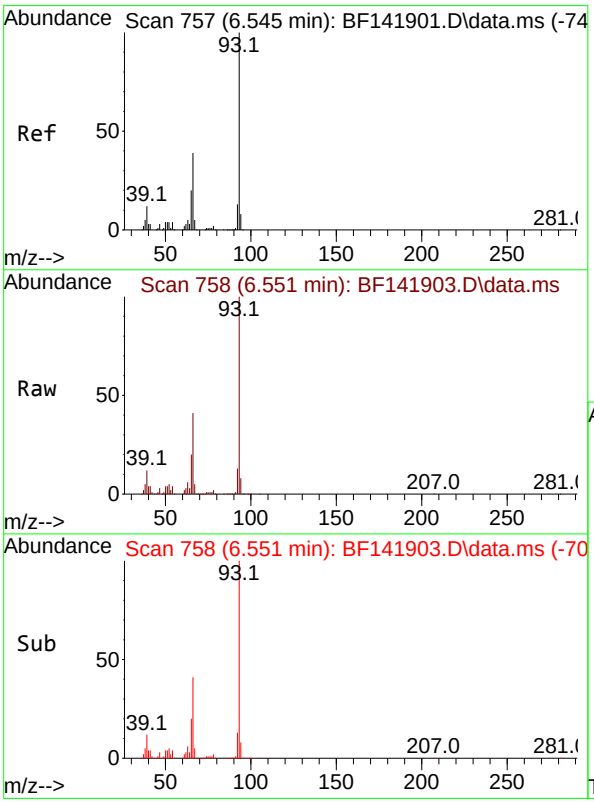
#5
2-Fluorophenol
Concen: 114.705 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 1490872

Ion	Ratio	Lower	Upper
112	100		
64	57.2	46.5	69.7
63	31.6	25.4	38.2

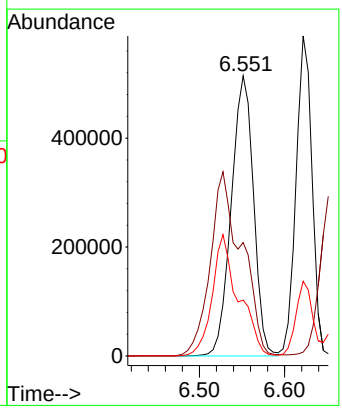


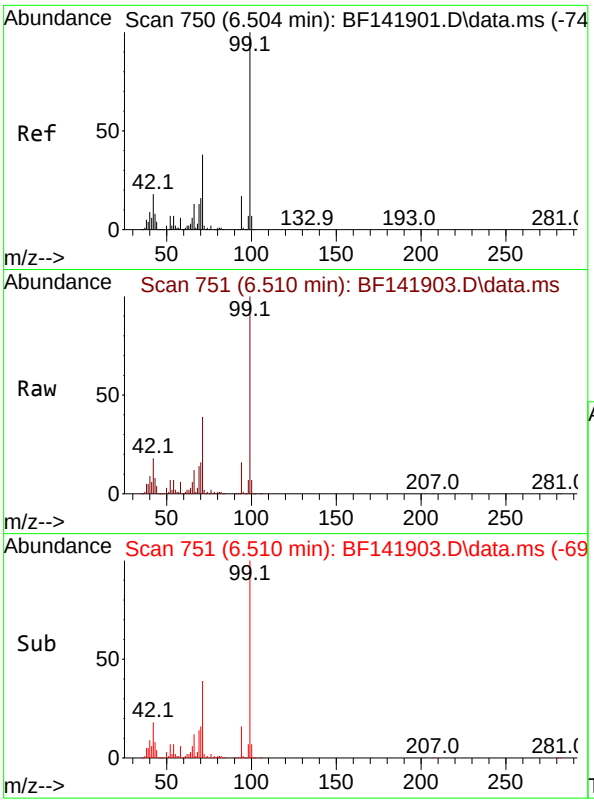


#6
Aniline
Concen: 57.146 ng
RT: 6.551 min Scan# 758
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion: 93 Resp: 933875

Ion	Ratio	Lower	Upper
93	100		
66	40.5	31.9	47.9
65	19.9	15.8	23.6



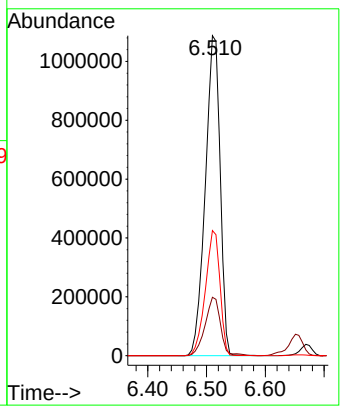


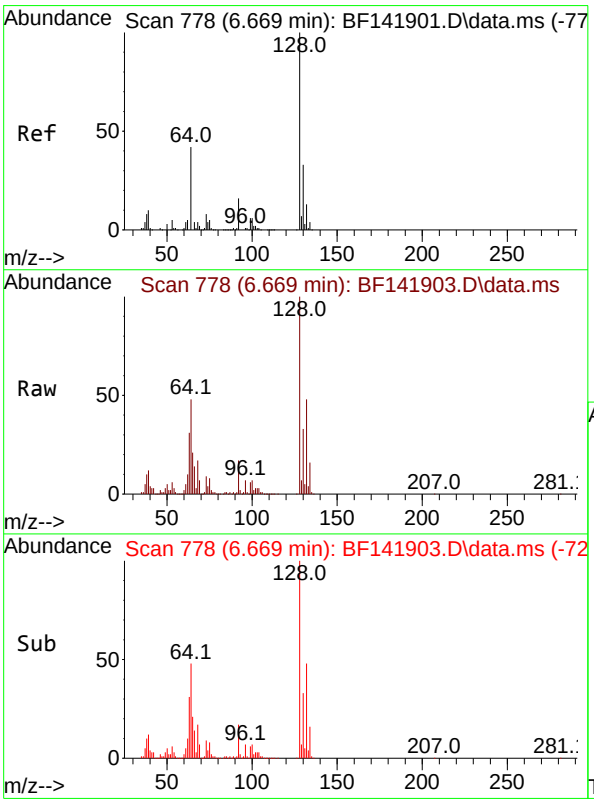
#7
Phenol-d6
Concen: 115.601 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 1913610

Ion	Ratio	Lower	Upper
99	100		
42	18.2	14.6	21.8
71	39.1	30.8	46.2

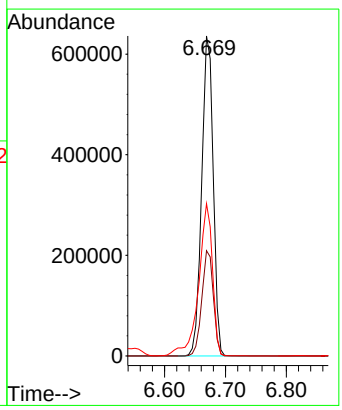


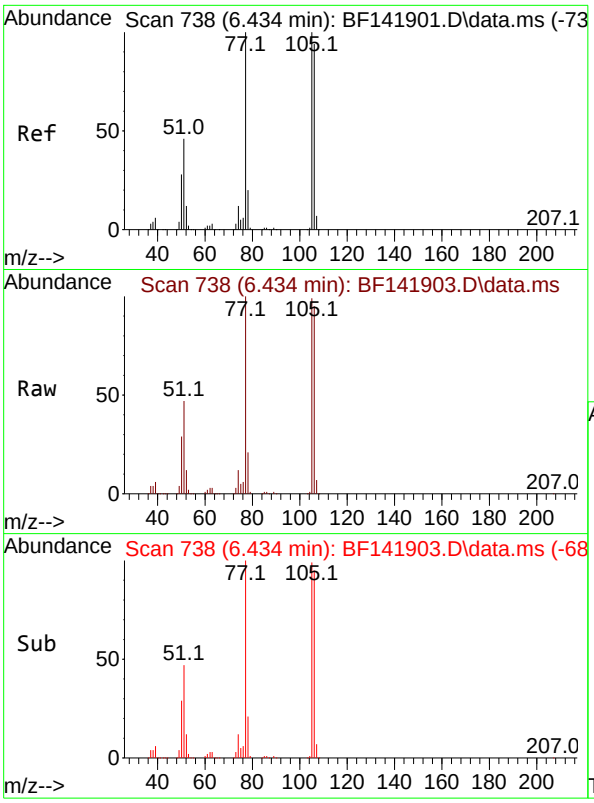


#8
2-Chlorophenol
Concen: 58.000 ng
RT: 6.669 min Scan# 778
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:128 Resp: 835549

Ion	Ratio	Lower	Upper
128	100		
130	32.9	12.8	52.8
64	47.6	24.4	64.4



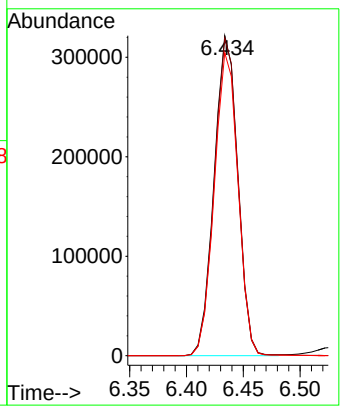


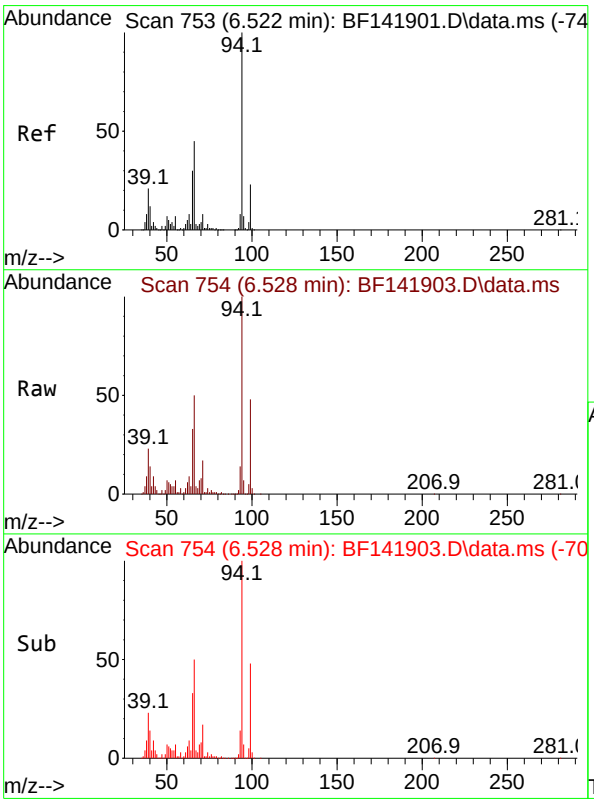
#9
Benzaldehyde
Concen: 50.311 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 465511

Ion	Ratio	Lower	Upper
77	100		
105	99.3	80.0	120.0
106	94.7	74.5	114.5

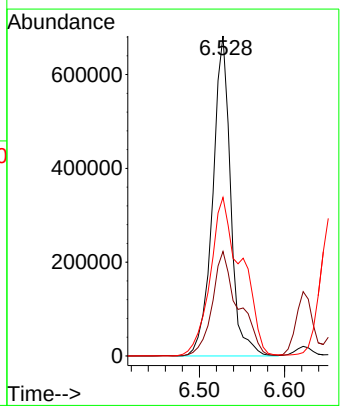


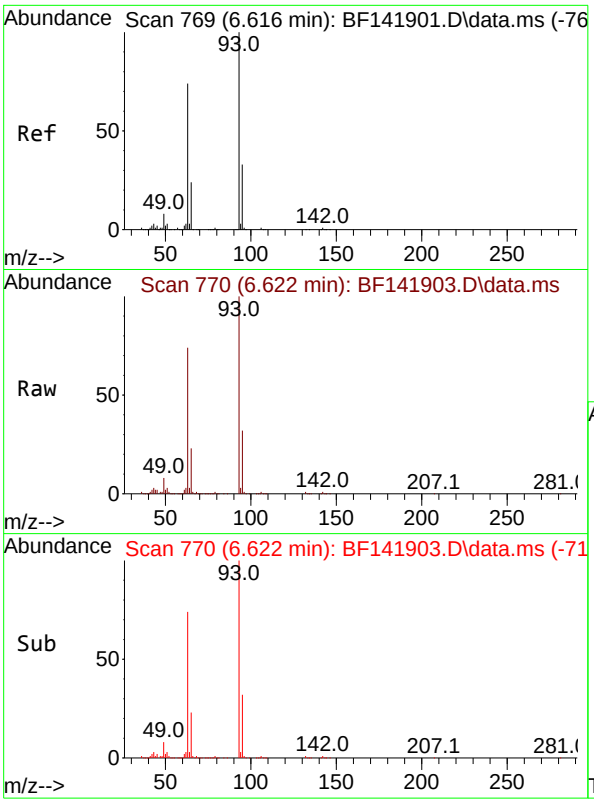


#10
Phenol
Concen: 57.074 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion: 94 Resp: 996848

Ion	Ratio	Lower	Upper
94	100		
65	32.6	10.5	50.5
66	49.5	25.8	65.8



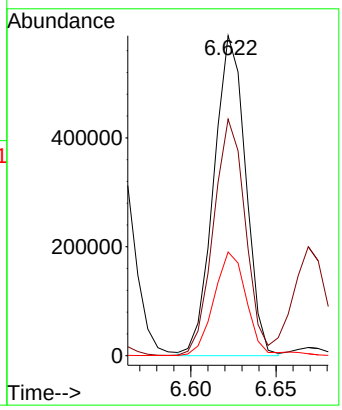


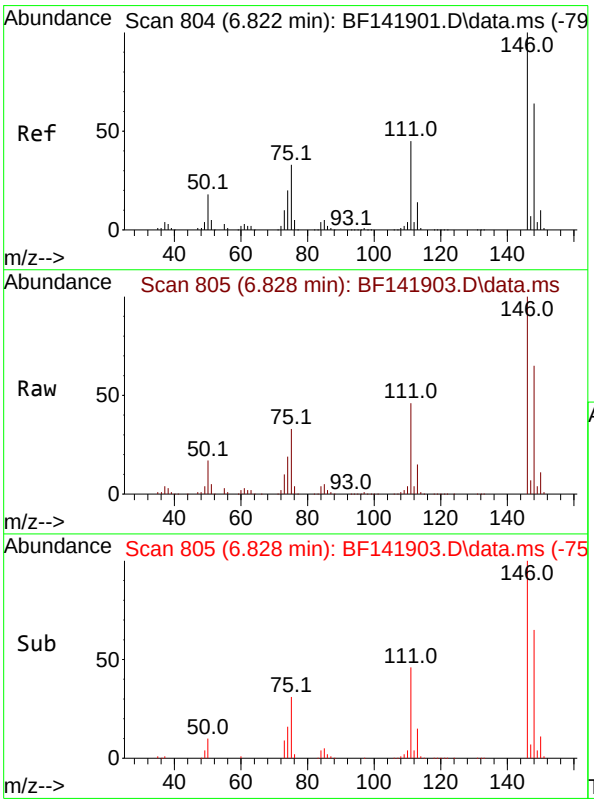
#11
bis(2-Chloroethyl)ether
Concen: 58.464 ng
RT: 6.622 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 765071

Ion	Ratio	Lower	Upper
93	100		
63	73.9	53.0	93.0
95	32.4	12.9	52.9

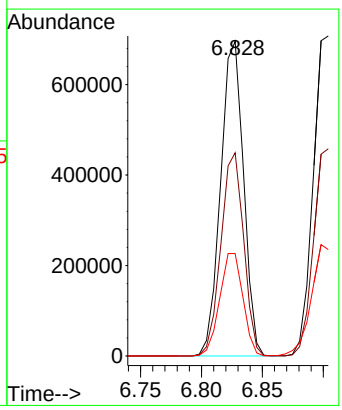


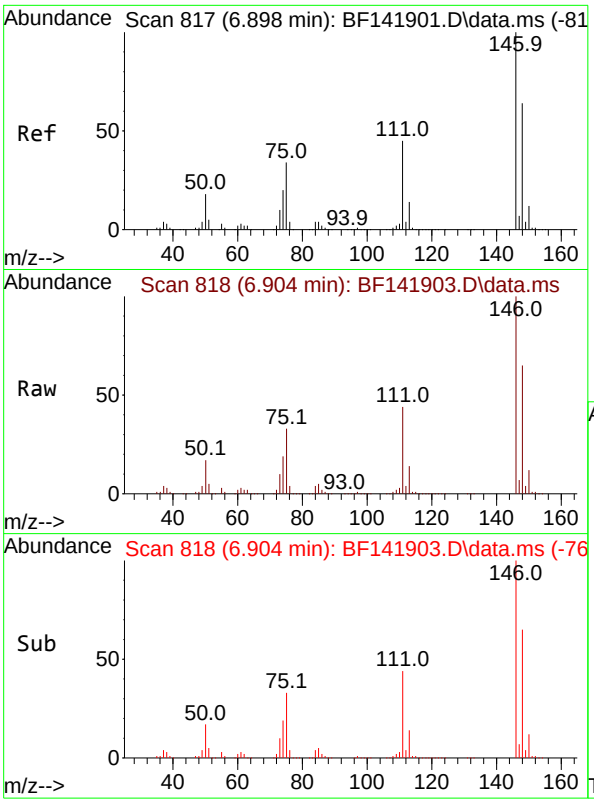


#12
1,3-Dichlorobenzene
Concen: 58.540 ng
RT: 6.828 min Scan# 805
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:146 Resp: 911340

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.3	76.9
75	32.6	26.6	40.0



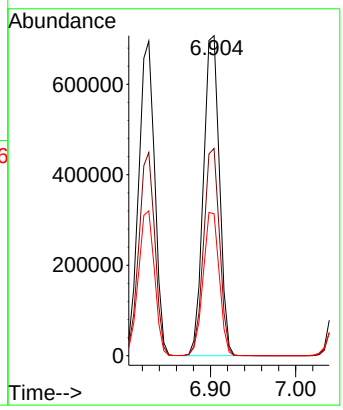


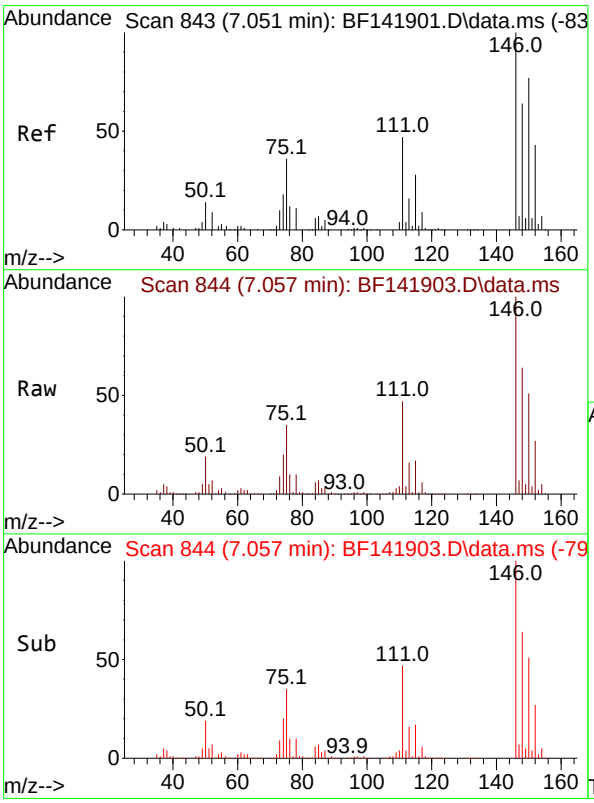
#13
1,4-Dichlorobenzene
Concen: 58.635 ng
RT: 6.904 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 923545

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.0	76.6
111	44.4	35.7	53.5

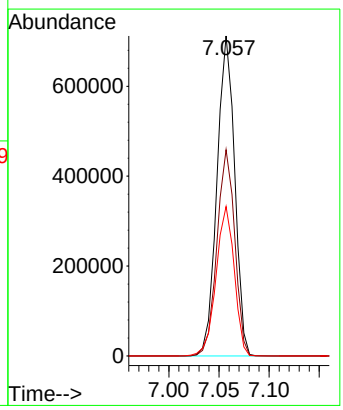


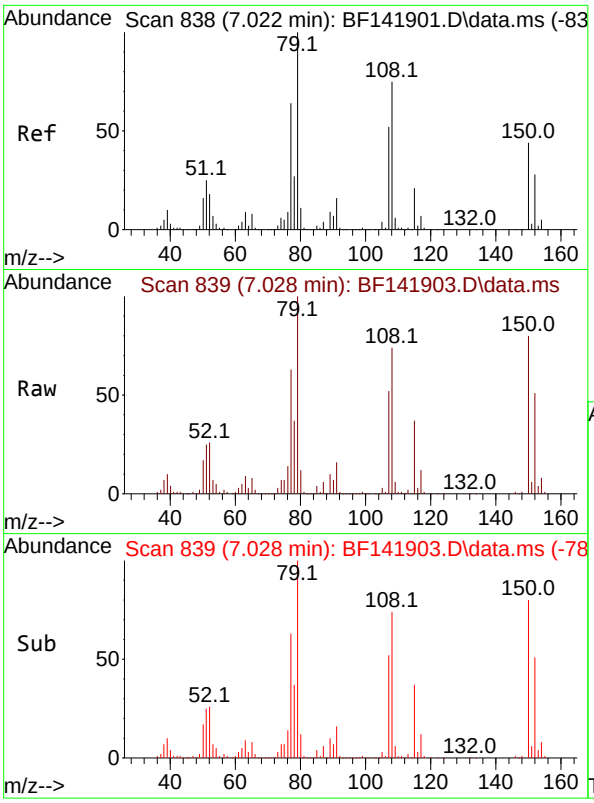


#14
1,2-Dichlorobenzene
Concen: 58.898 ng
RT: 7.057 min Scan# 844
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:146 Resp: 873604

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.8	76.2
111	46.7	38.0	57.0



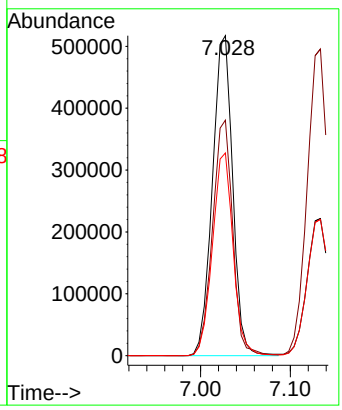


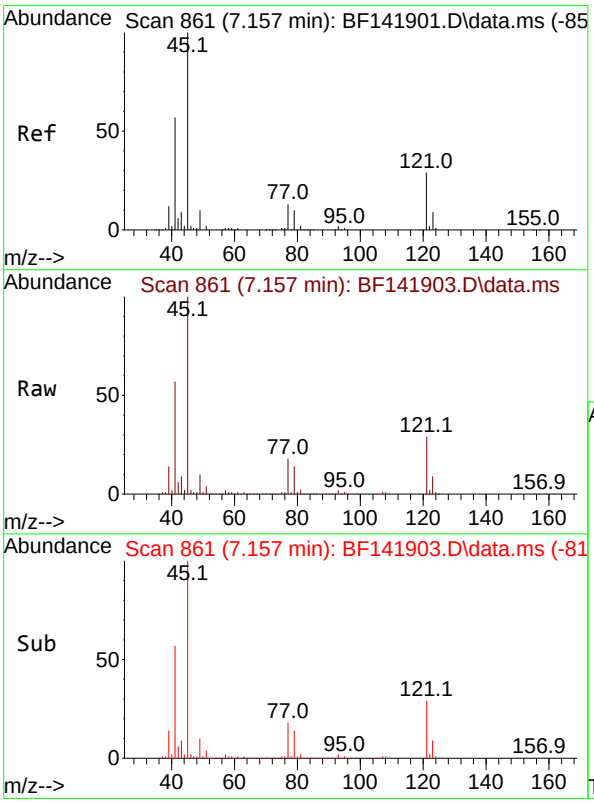
#15
Benzyl Alcohol
Concen: 60.480 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 810347

Ion	Ratio	Lower	Upper
79	100		
108	73.6	59.7	89.5
77	63.4	51.0	76.6

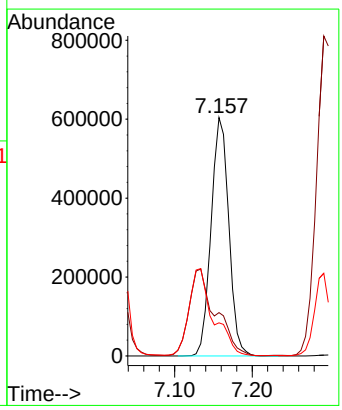


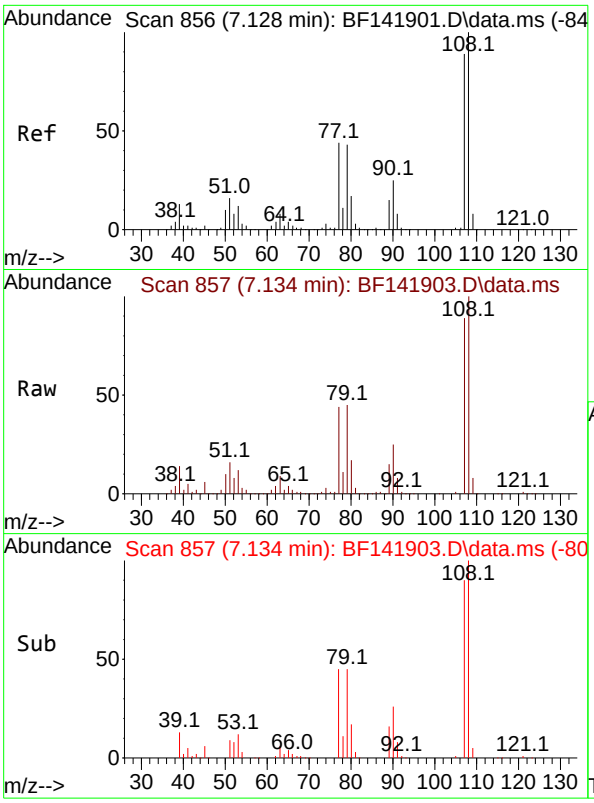


#16
2,2'-oxybis(1-Chloropropane)
Concen: 60.730 ng
RT: 7.157 min Scan# 861
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion: 45 Resp: 957808

Ion	Ratio	Lower	Upper
45	100		
77	18.2	0.0	37.8
79	13.9	0.0	34.2



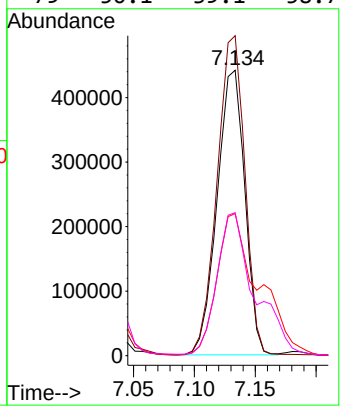


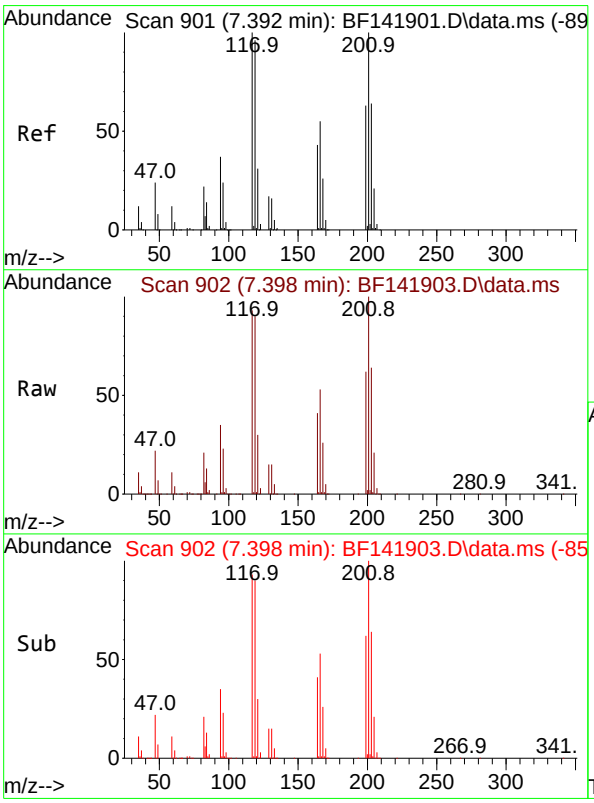
#17
2-Methylphenol
Concen: 61.285 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 701676

Ion	Ratio	Lower	Upper
107	100		
108	112.1	90.2	135.2
77	49.8	39.6	59.4
79	50.1	39.1	58.7

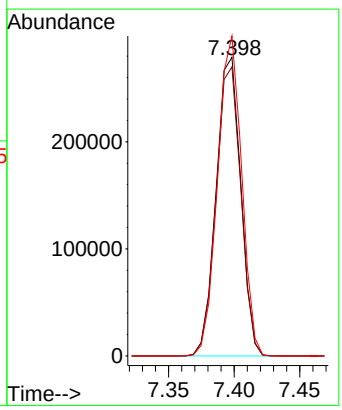


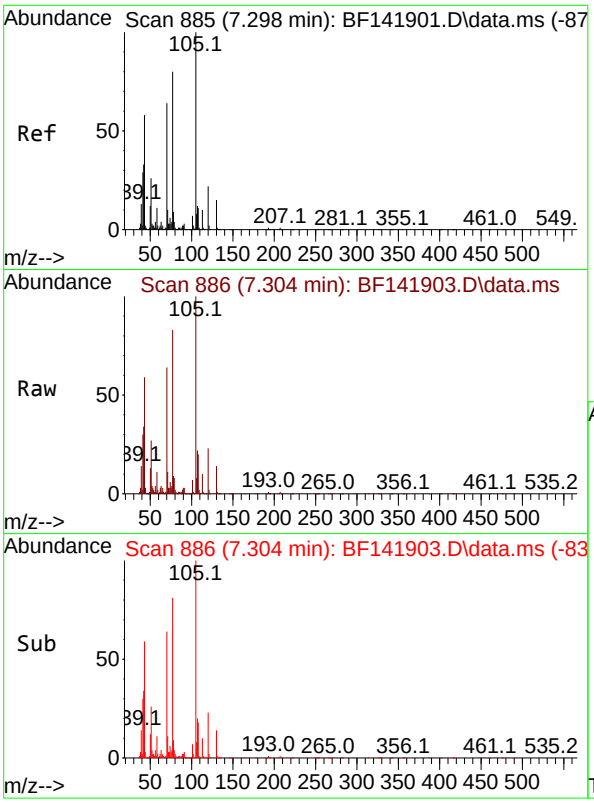


#18
Hexachloroethane
Concen: 61.734 ng
RT: 7.398 min Scan# 902
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:117 Resp: 364561

Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.9	115.3
201	107.1	79.9	119.9



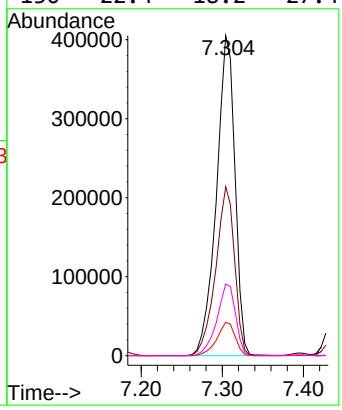


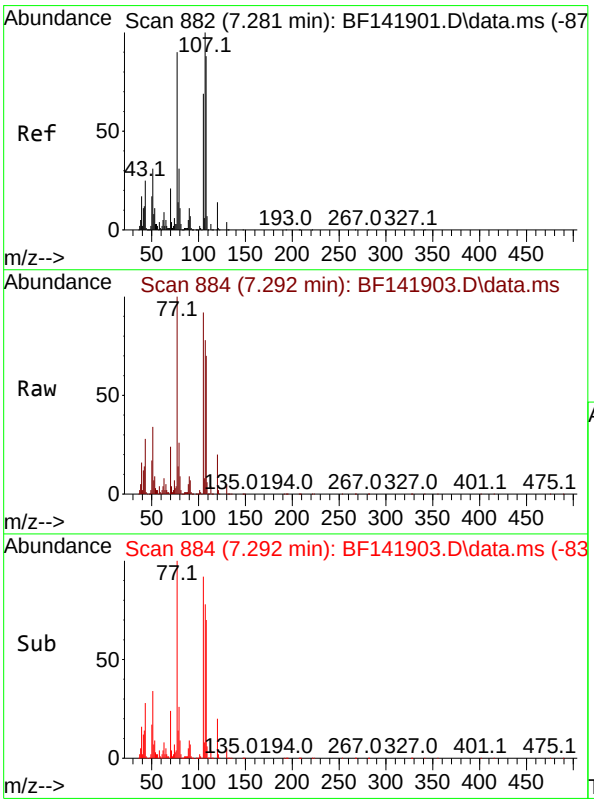
#19
n-Nitroso-di-n-propylamine
Concen: 60.576 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 644501

Ion	Ratio	Lower	Upper
70	100		
42	52.8	41.4	62.0
101	10.4	8.2	12.2
130	22.4	18.2	27.4

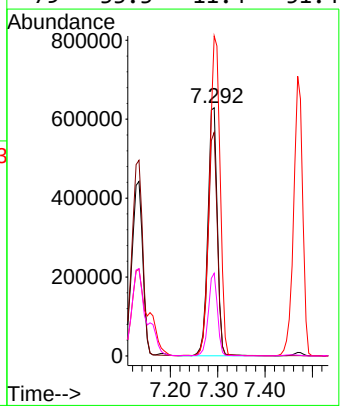


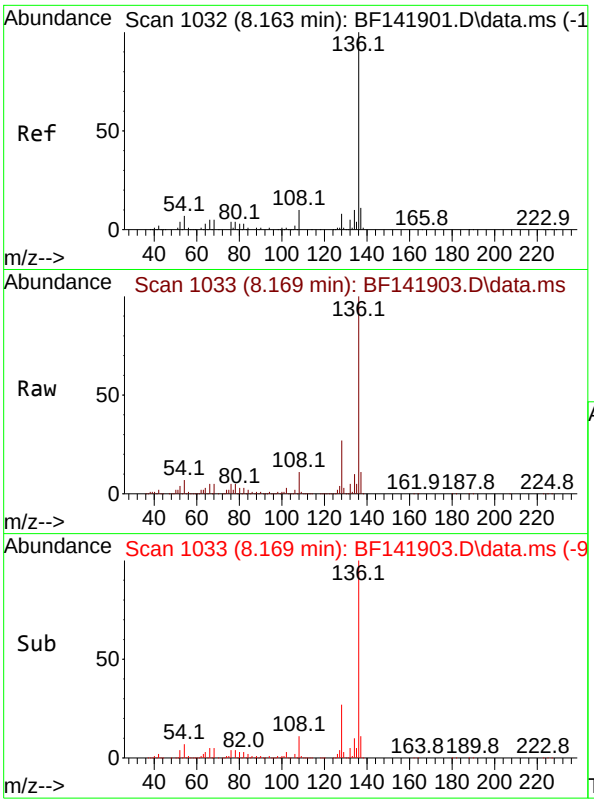


#20
3+4-Methylphenols
Concen: 59.116 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.012 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:107 Resp: 868157

Ion	Ratio	Lower	Upper
107	100		
108	90.1	68.4	108.4
77	128.9	69.7	109.7#
79	33.3	11.4	51.4



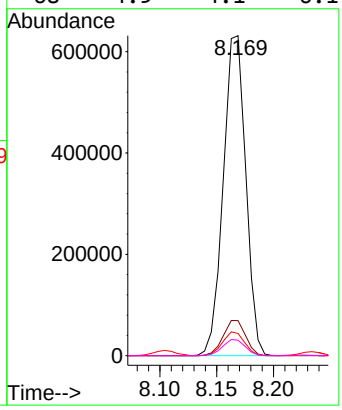


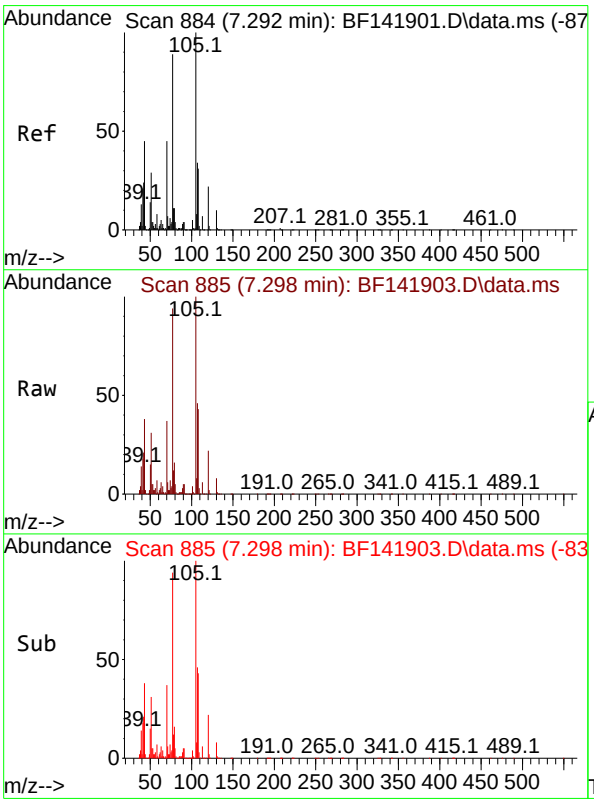
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 872222

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.0	5.8	8.8
68	4.9	4.1	6.1

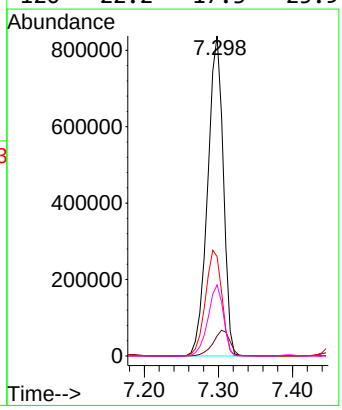


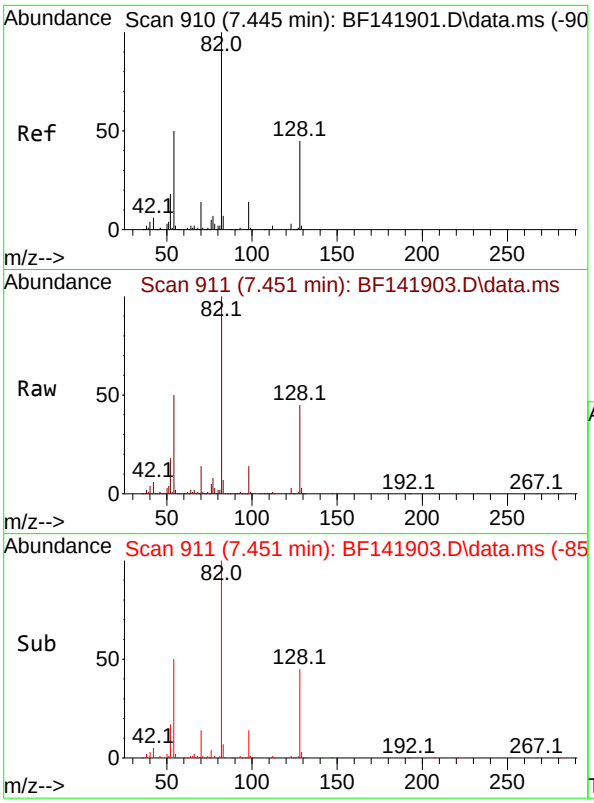


#22
Acetophenone
Concen: 58.635 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:105 Resp: 1226859

Ion	Ratio	Lower	Upper
105	100		
71	6.2	5.8	8.8
51	31.1	23.4	35.0
120	22.2	17.3	25.9



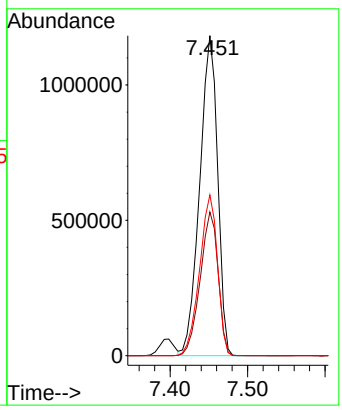


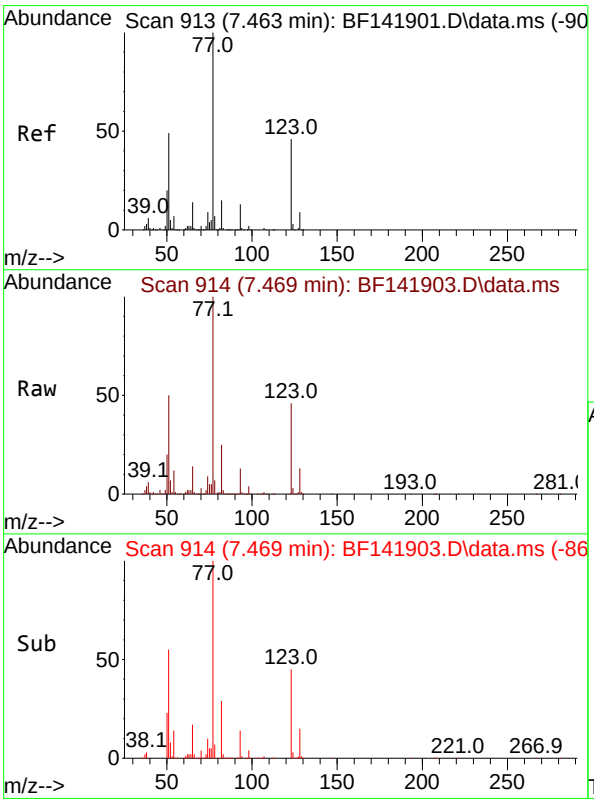
#23
Nitrobenzene-d5
Concen: 122.074 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 1899726

Ion	Ratio	Lower	Upper
82	100		
128	44.9	36.0	54.0
54	50.3	39.6	59.4

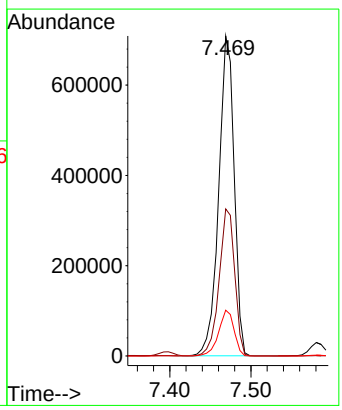


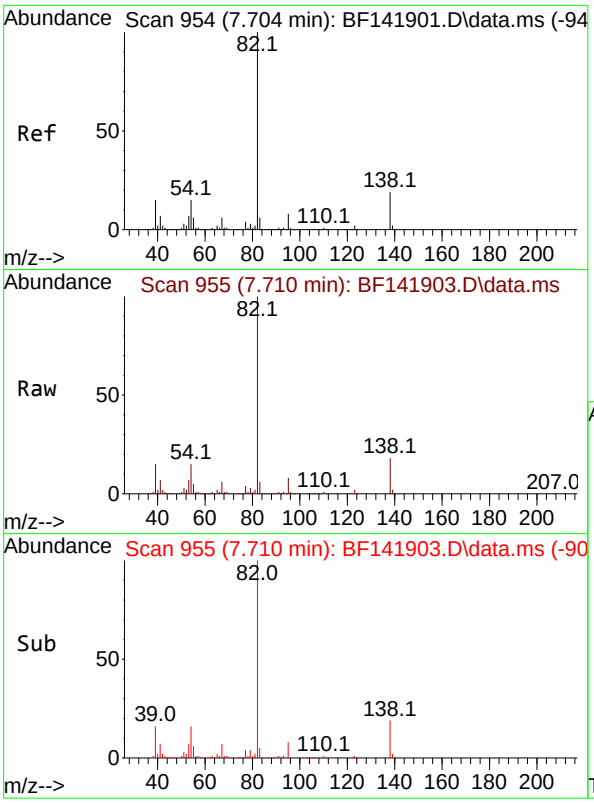


#24
Nitrobenzene
Concen: 60.889 ng
RT: 7.469 min Scan# 914
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion: 77 Resp: 939508

Ion	Ratio	Lower	Upper
77	100		
123	45.9	37.0	55.4
65	14.3	11.3	16.9



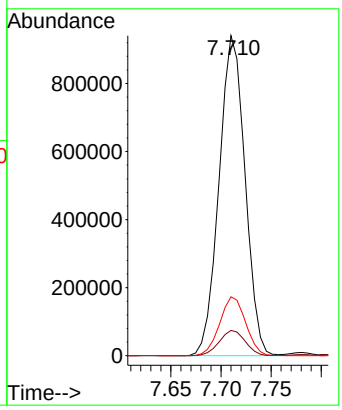


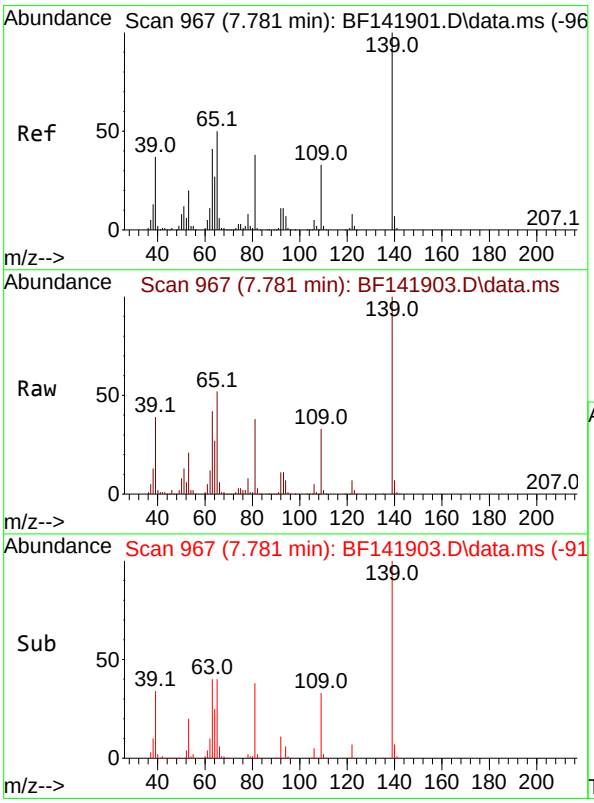
#25
Isophorone
Concen: 61.720 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 1695749

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.4	9.6
138	18.4	14.9	22.3

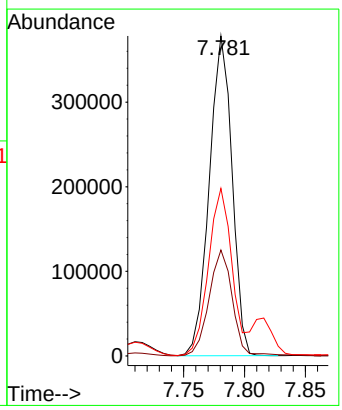


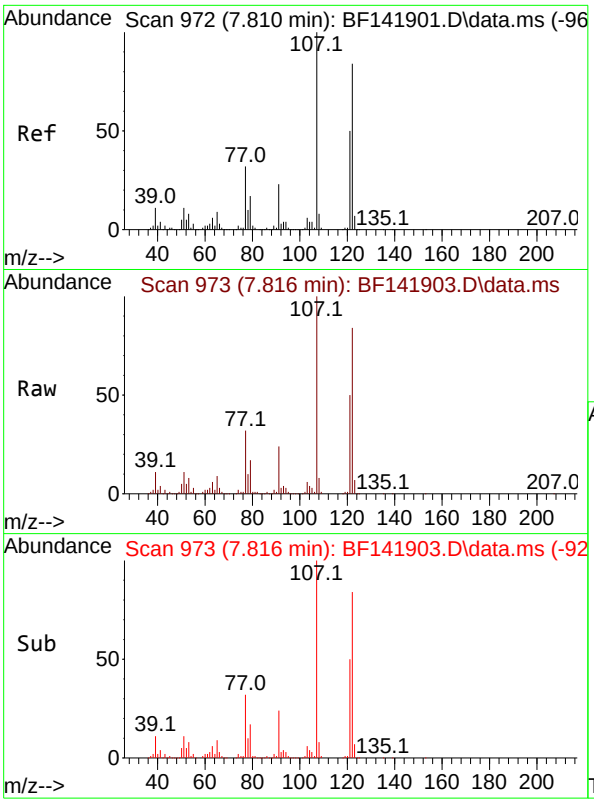


#26
2-Nitrophenol
Concen: 64.978 ng
RT: 7.781 min Scan# 967
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:139 Resp: 491301

Ion	Ratio	Lower	Upper
139	100		
109	33.1	26.5	39.7
65	52.3	40.3	60.5



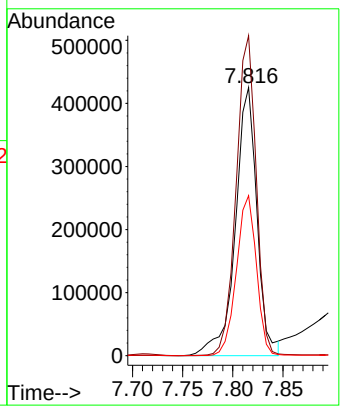


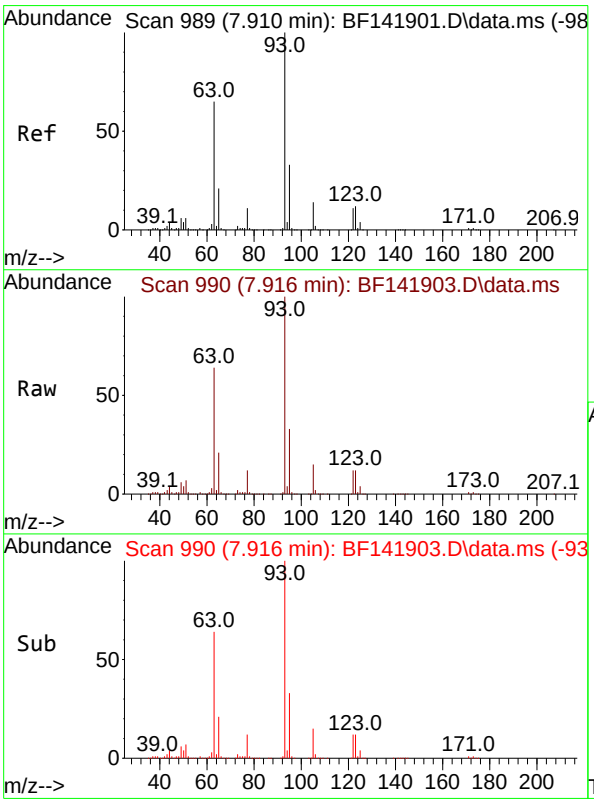
#27
2,4-Dimethylphenol
Concen: 61.408 ng
RT: 7.816 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 639505

Ion	Ratio	Lower	Upper
122	100		
107	119.4	94.8	142.2
121	59.7	47.8	71.6

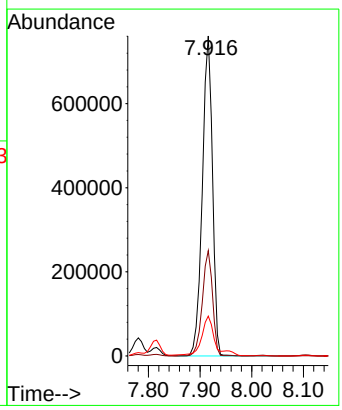


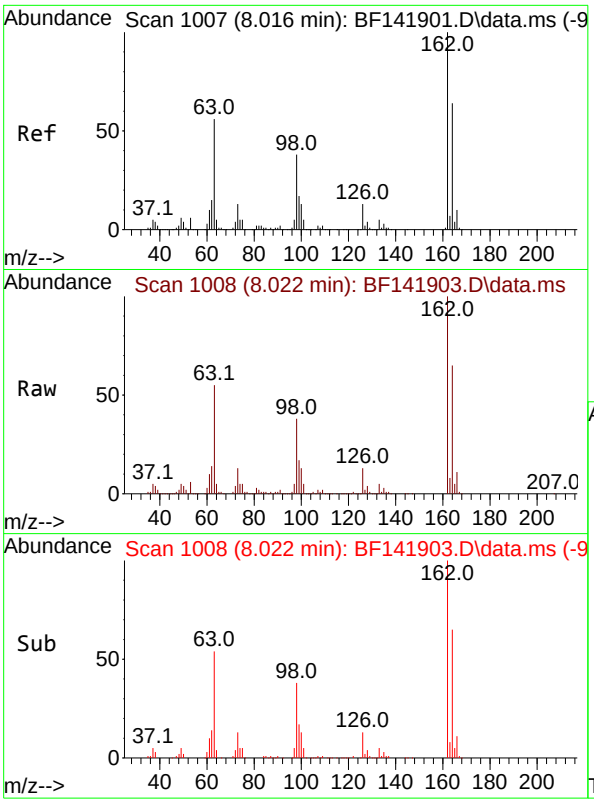


#28
bis(2-Chloroethoxy)methane
Concen: 60.422 ng
RT: 7.916 min Scan# 990
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion: 93 Resp: 1039951

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.6	40.0
123	12.5	10.2	15.4



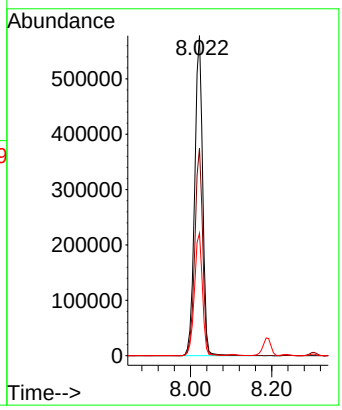


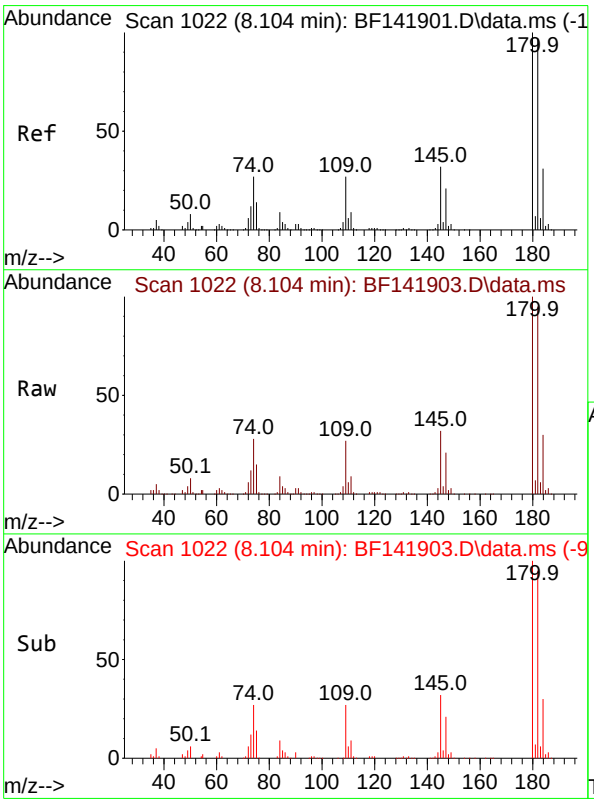
#29
2,4-Dichlorophenol
Concen: 61.272 ng
RT: 8.022 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 791904

Ion	Ratio	Lower	Upper
162	100		
164	64.9	43.8	83.8
98	38.3	18.1	58.1

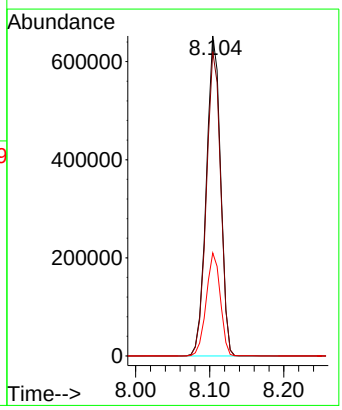


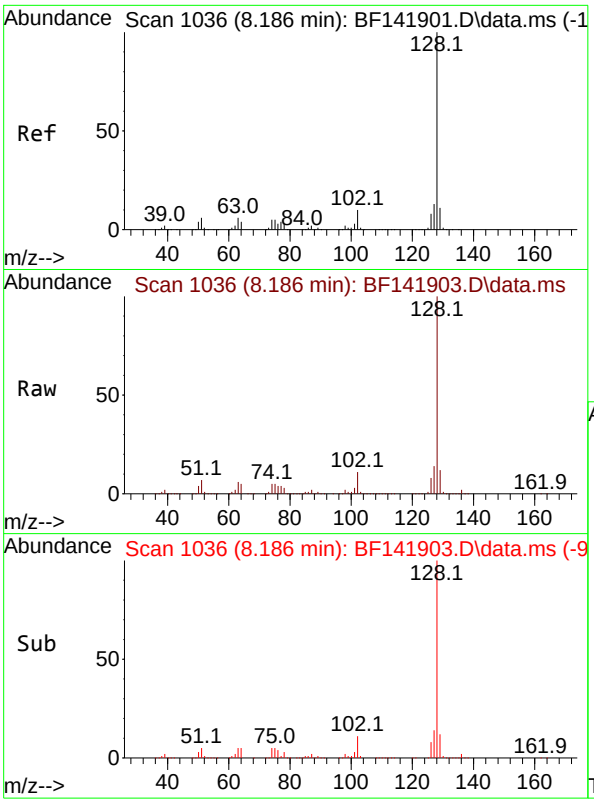


#30
1,2,4-Trichlorobenzene
Concen: 61.044 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:180 Resp: 870403

Ion	Ratio	Lower	Upper
180	100		
182	95.1	77.5	116.3
145	32.2	25.8	38.6



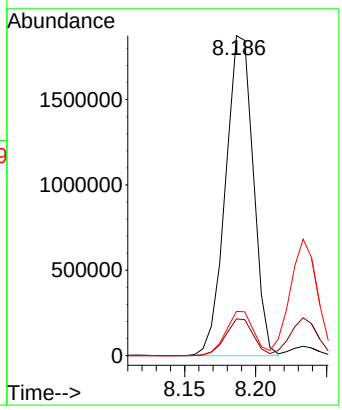


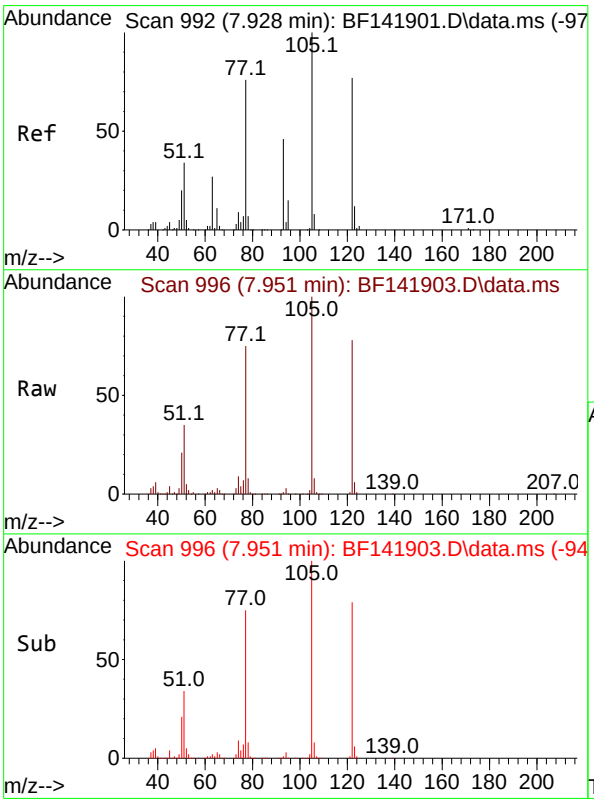
#31
Naphthalene
Concen: 56.961 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 2545181

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.0	13.6
127	13.8	10.8	16.2

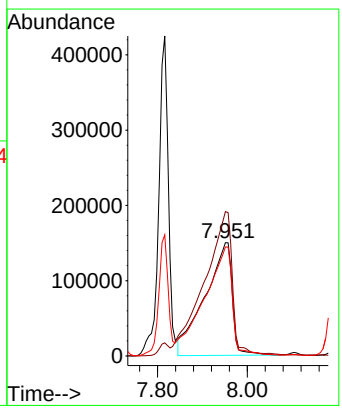


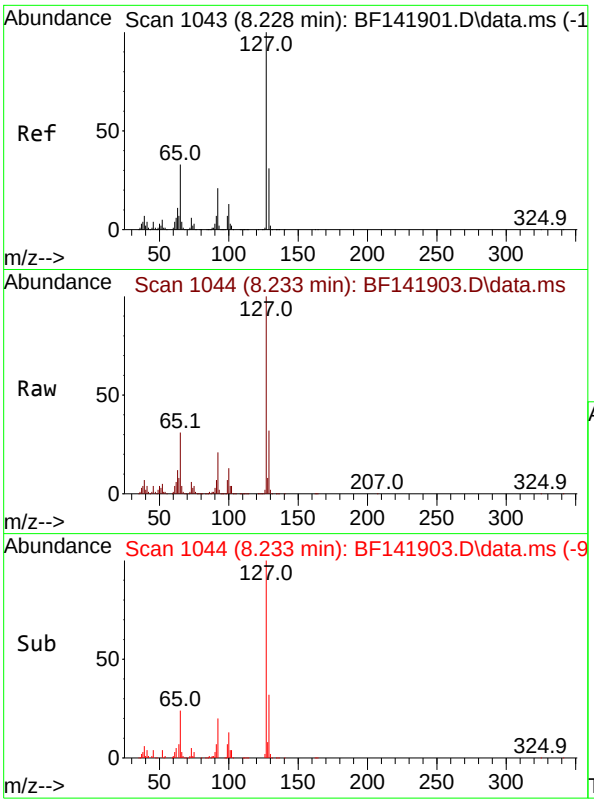


#32
Benzoic acid
Concen: 69.664 ng
RT: 7.951 min Scan# 996
Delta R.T. 0.023 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:122 Resp: 634105

Ion	Ratio	Lower	Upper
122	100		
105	127.5	107.9	147.9
77	96.2	79.0	119.0



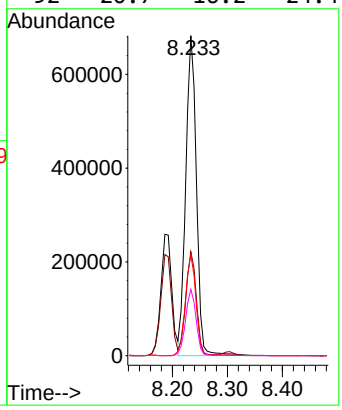


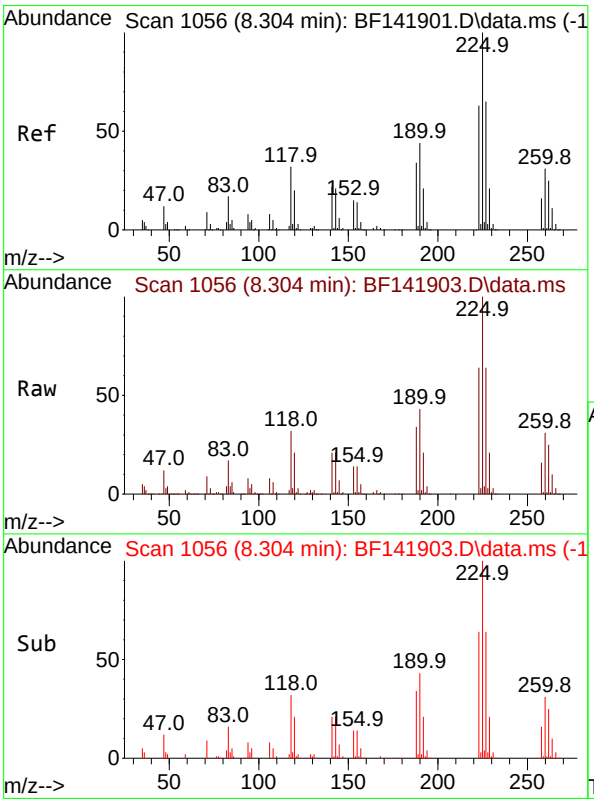
#33
4-Chloroaniline
Concen: 58.348 ng
RT: 8.233 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 920015

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.2	39.4
65	31.5	25.4	38.2
92	20.7	16.2	24.4

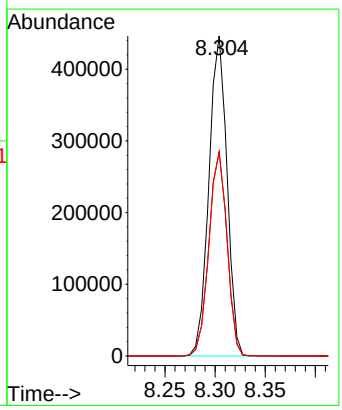


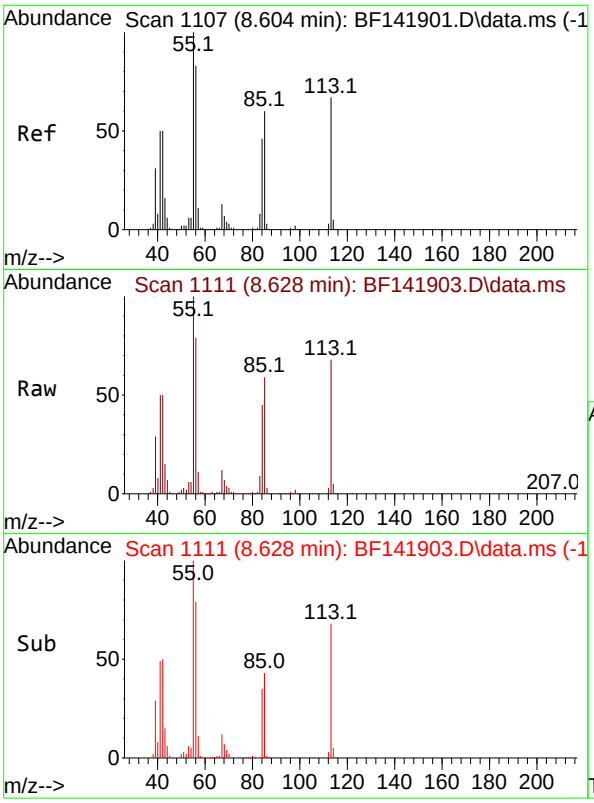


#34
Hexachlorobutadiene
Concen: 60.397 ng
RT: 8.304 min Scan# 1056
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:225 Resp: 559955

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.6	75.8
227	63.8	52.2	78.2



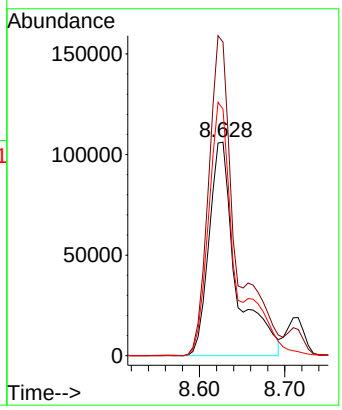


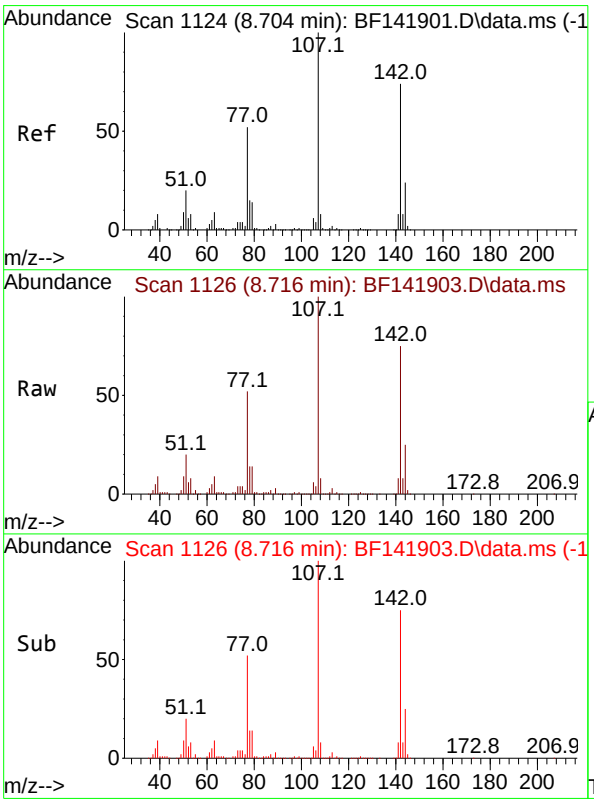
#35
Caprolactam
Concen: 60.015 ng
RT: 8.628 min Scan# 11
Delta R.T. 0.024 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 235861

Ion	Ratio	Lower	Upper
113	100		
55	146.7	129.6	169.6
56	115.4	104.0	144.0

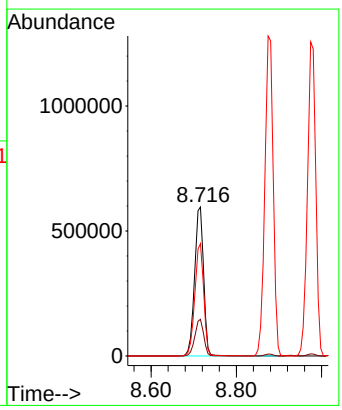


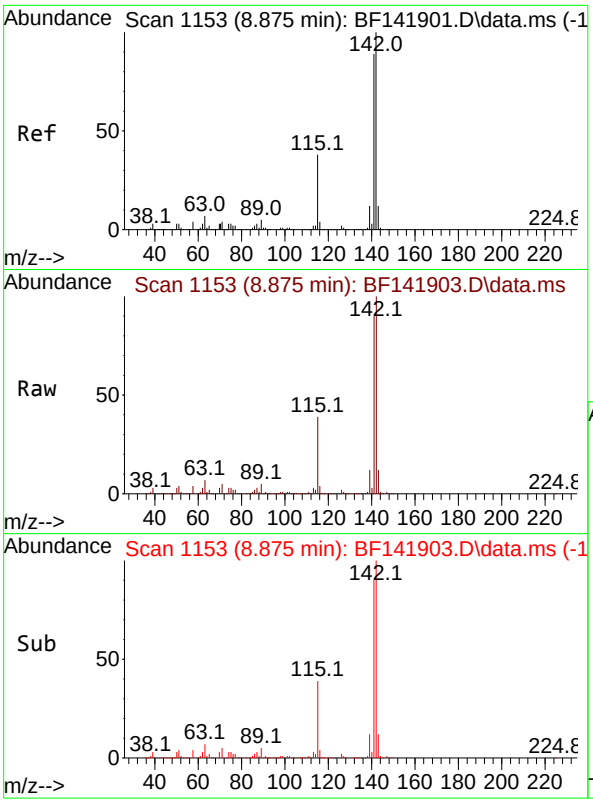


#36
4-Chloro-3-methylphenol
Concen: 60.807 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.012 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:107 Resp: 874022

Ion	Ratio	Lower	Upper
107	100		
144	24.6	19.0	28.6
142	75.4	59.2	88.8



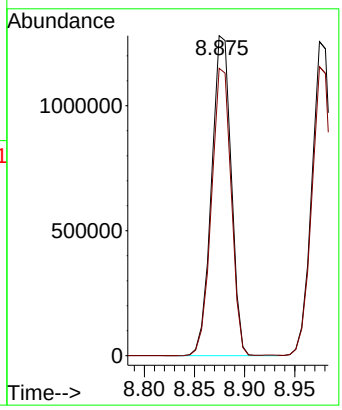


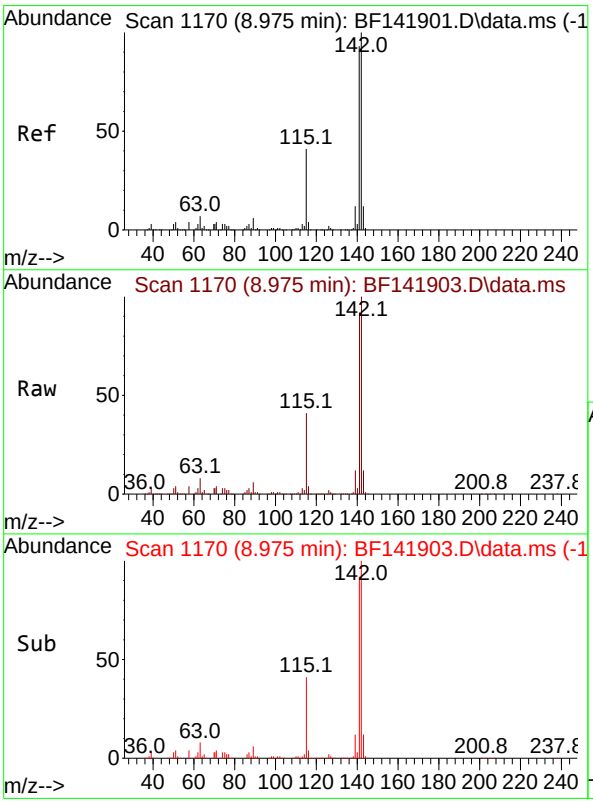
#37
2-Methylnaphthalene
Concen: 58.187 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 1744374

Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.2	106.8

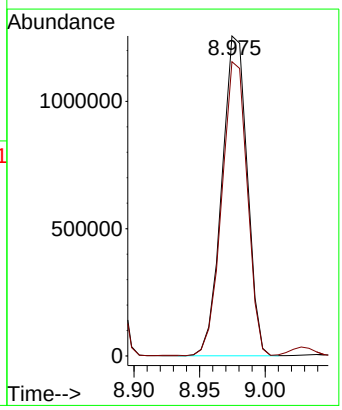


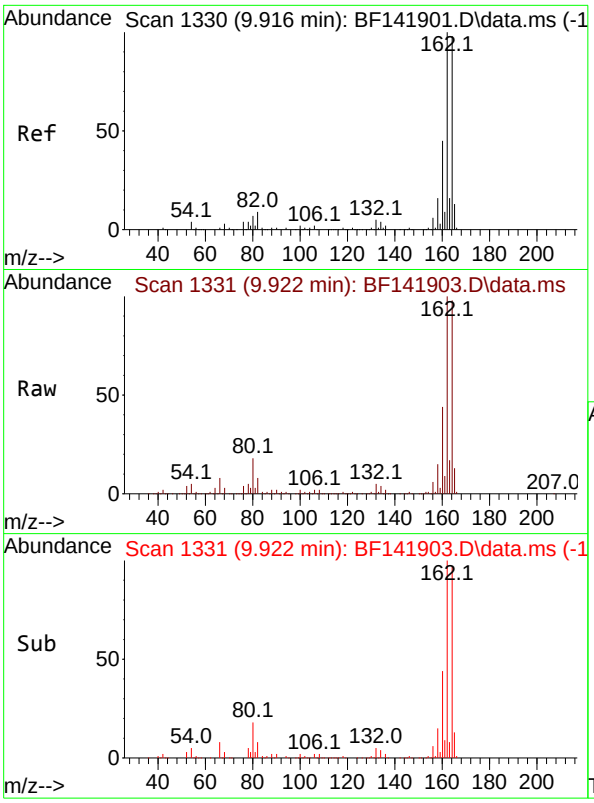


#38
1-Methylnaphthalene
Concen: 58.285 ng
RT: 8.975 min Scan# 1170
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:142 Resp: 1692113

Ion	Ratio	Lower	Upper
142	100		
141	92.0	74.2	111.4



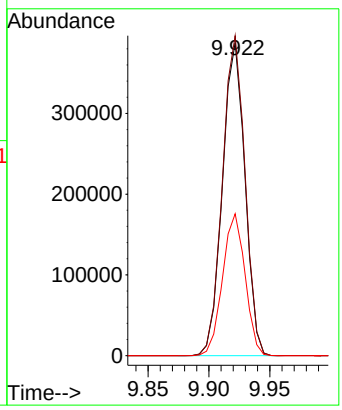


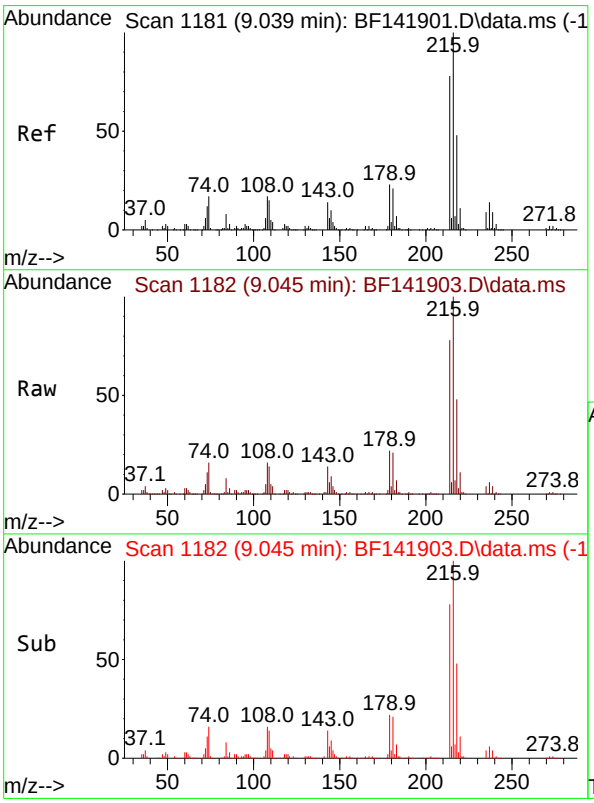
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 497194

Ion	Ratio	Lower	Upper
164	100		
162	102.3	81.8	122.6
160	45.4	36.7	55.1

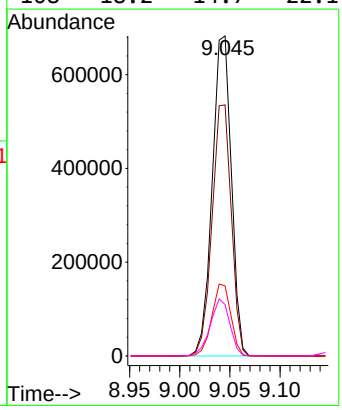


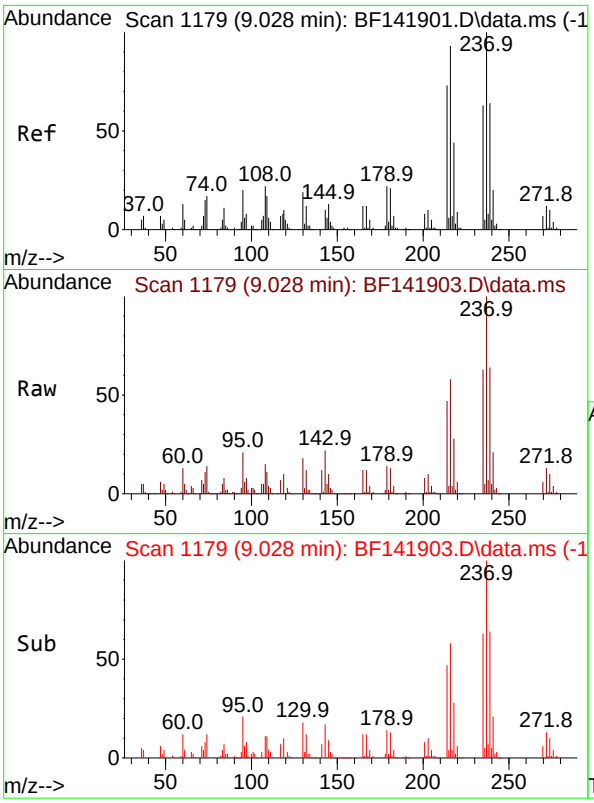


#40
1,2,4,5-Tetrachlorobenzene
Concen: 59.627 ng
RT: 9.045 min Scan# 1182
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:216 Resp: 903928

Ion	Ratio	Lower	Upper
216	100		
214	78.9	61.9	92.9
179	22.3	18.1	27.1
108	18.2	14.7	22.1



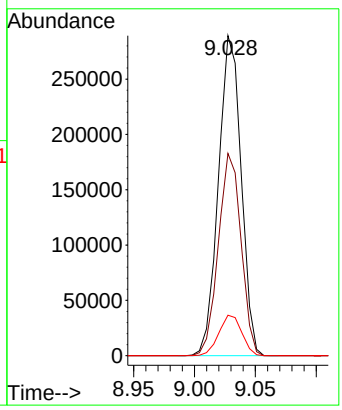


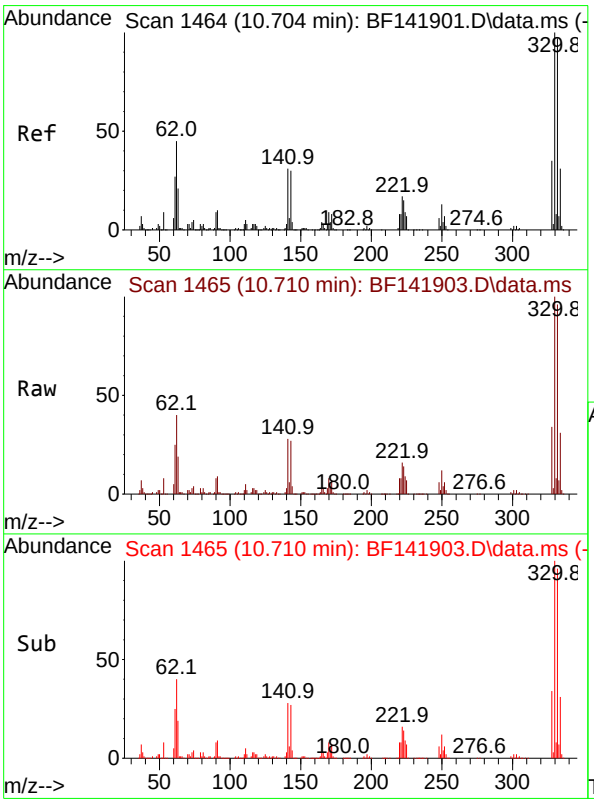
#41
Hexachlorocyclopentadiene
Concen: 62.842 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 375919

Ion	Ratio	Lower	Upper
237	100		
235	63.2	43.1	83.1
272	12.6	0.0	32.0

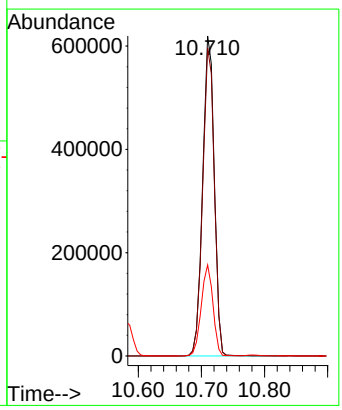


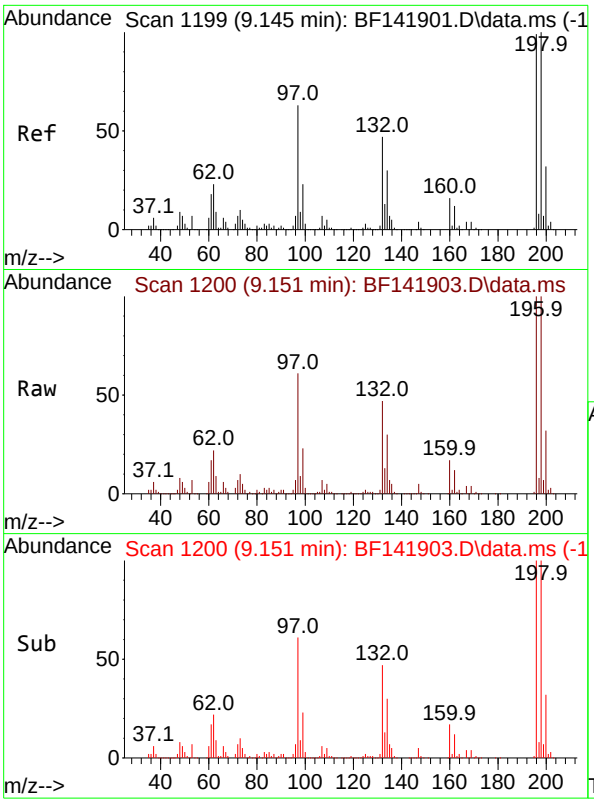


#42
2,4,6-Tribromophenol
Concen: 125.609 ng
RT: 10.710 min Scan# 1465
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:330 Resp: 791365

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.6	116.4
141	28.7	24.7	37.1



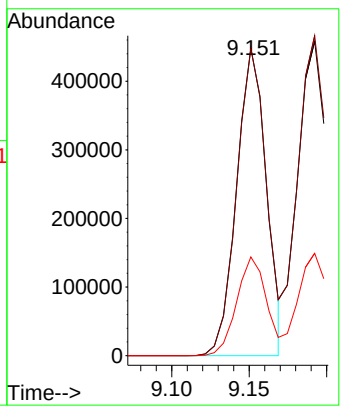


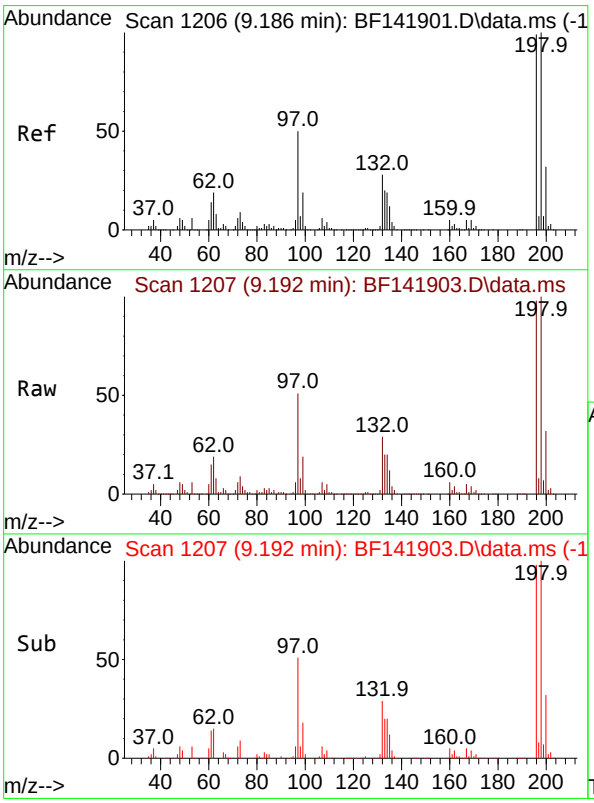
#43
2,4,6-Trichlorophenol
Concen: 60.479 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 597686

Ion	Ratio	Lower	Upper
196	100		
198	99.8	80.6	121.0
200	32.1	25.8	38.6

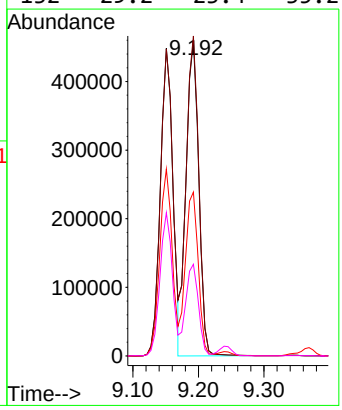


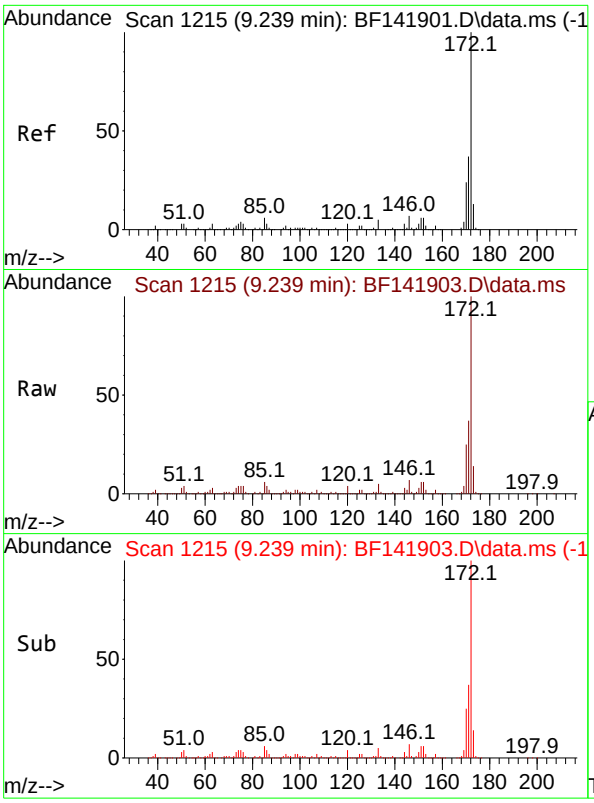


#44
2,4,5-Trichlorophenol
Concen: 61.642 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:196 Resp: 618930

Ion	Ratio	Lower	Upper
196	100		
198	101.7	80.7	121.1
97	52.1	42.1	63.1
132	29.2	23.4	35.2



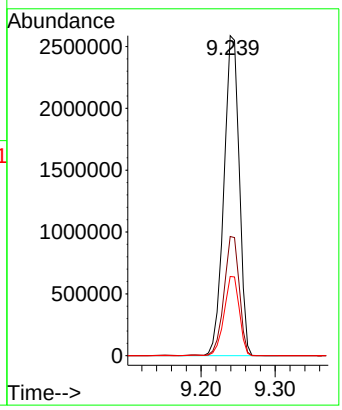


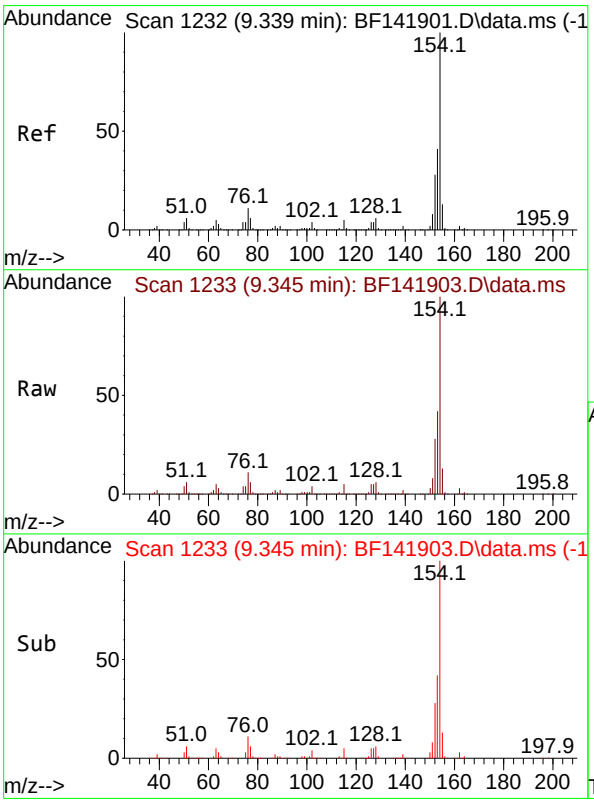
#45
2-Fluorobiphenyl
Concen: 113.827 ng
RT: 9.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 3716590

Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.3	43.9
170	24.7	19.4	29.0

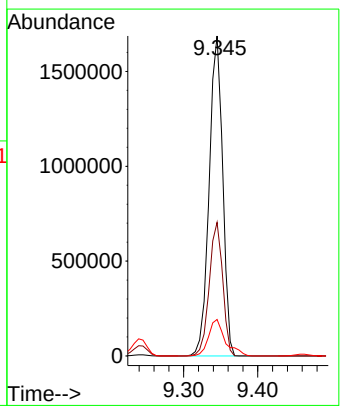


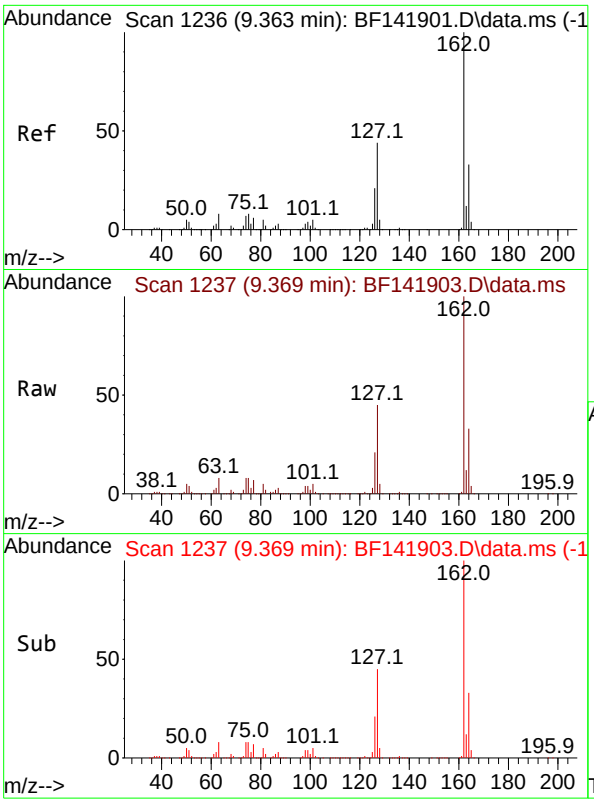


#46
1,1'-Biphenyl
Concen: 56.634 ng
RT: 9.345 min Scan# 1233
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:154 Resp: 2134829

Ion	Ratio	Lower	Upper
154	100		
153	41.8	21.1	61.1
76	11.4	0.0	31.3



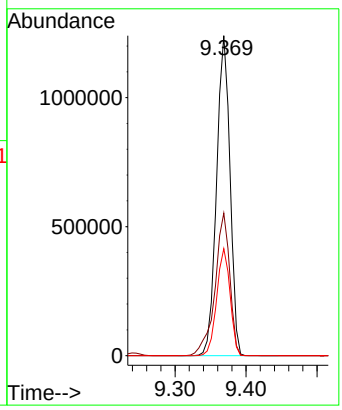


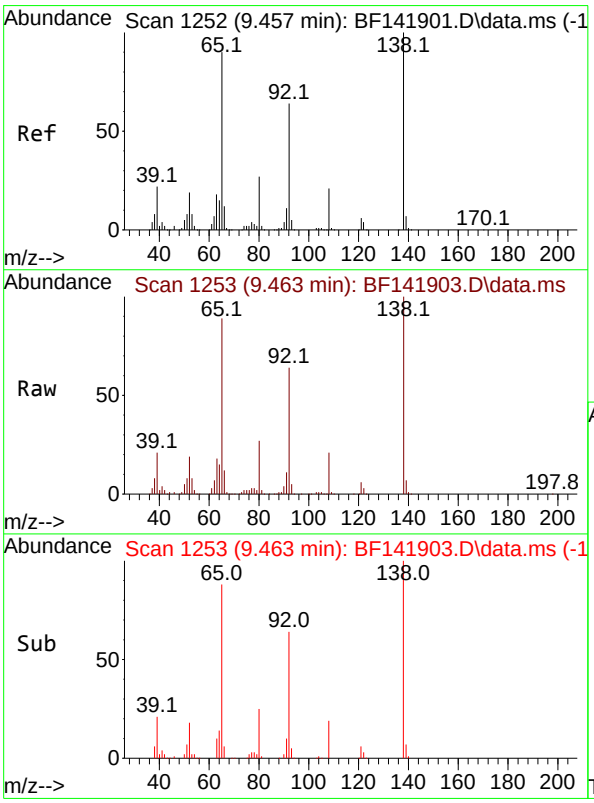
#47
2-Chloronaphthalene
Concen: 57.879 ng
RT: 9.369 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 1625973

Ion	Ratio	Lower	Upper
162	100		
127	44.5	35.5	53.3
164	33.5	26.6	40.0

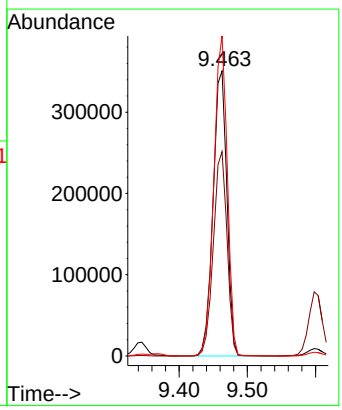


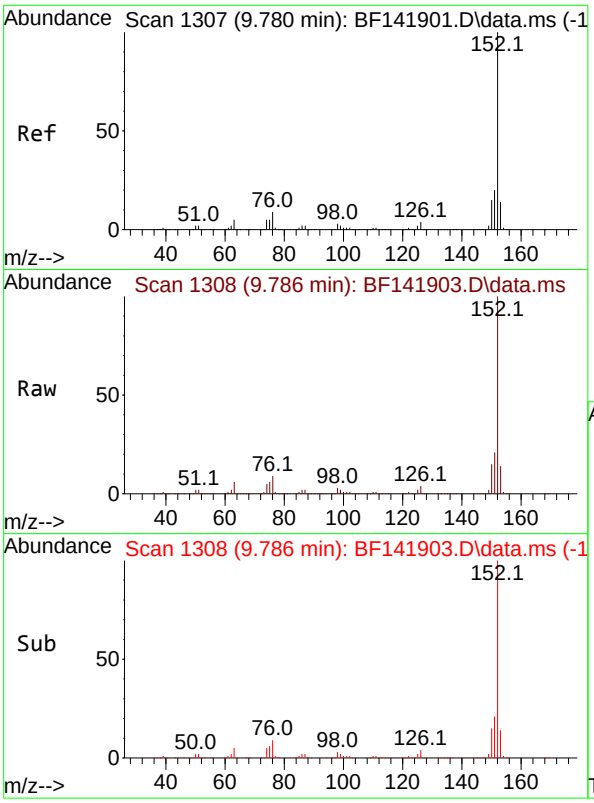


#48
2-Nitroaniline
Concen: 61.368 ng
RT: 9.463 min Scan# 1253
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion: 65 Resp: 495229

Ion	Ratio	Lower	Upper
65	100		
92	71.7	56.6	84.8
138	112.3	88.6	133.0



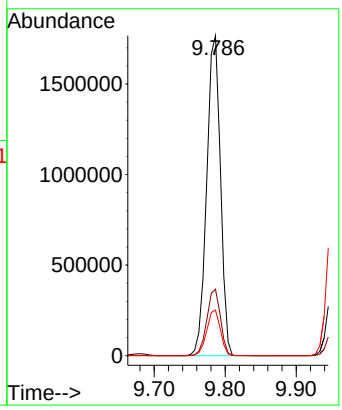


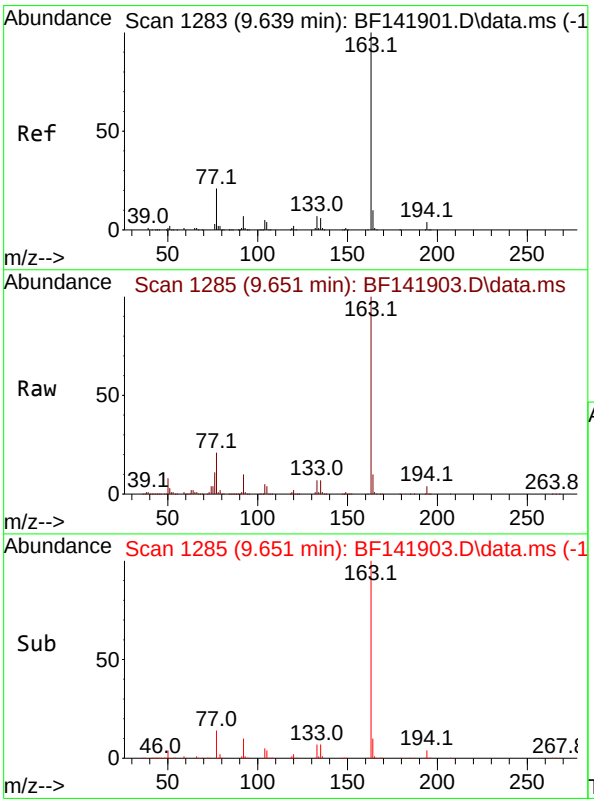
#49
Acenaphthylene
Concen: 57.125 ng
RT: 9.786 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 2379216

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.3	24.5
153	14.2	11.1	16.7

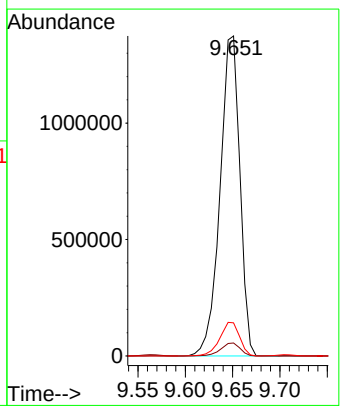


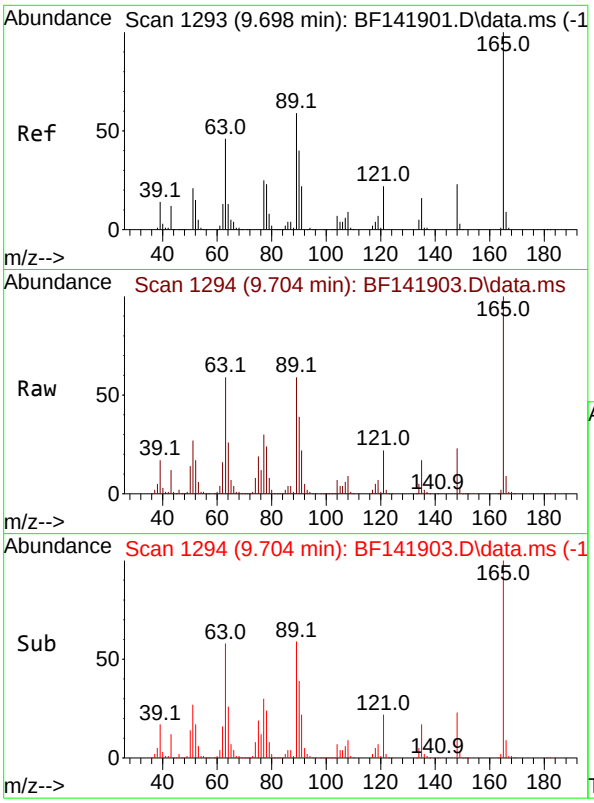


#50
Dimethylphthalate
Concen: 58.083 ng
RT: 9.651 min Scan# 1285
Delta R.T. 0.012 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:163 Resp: 2006480

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	10.4	8.2	12.4



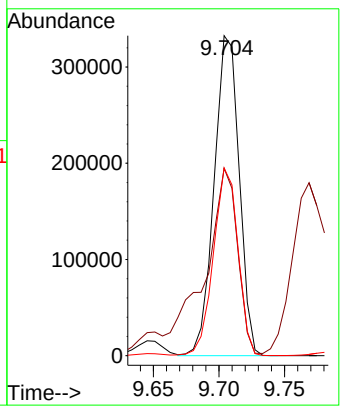


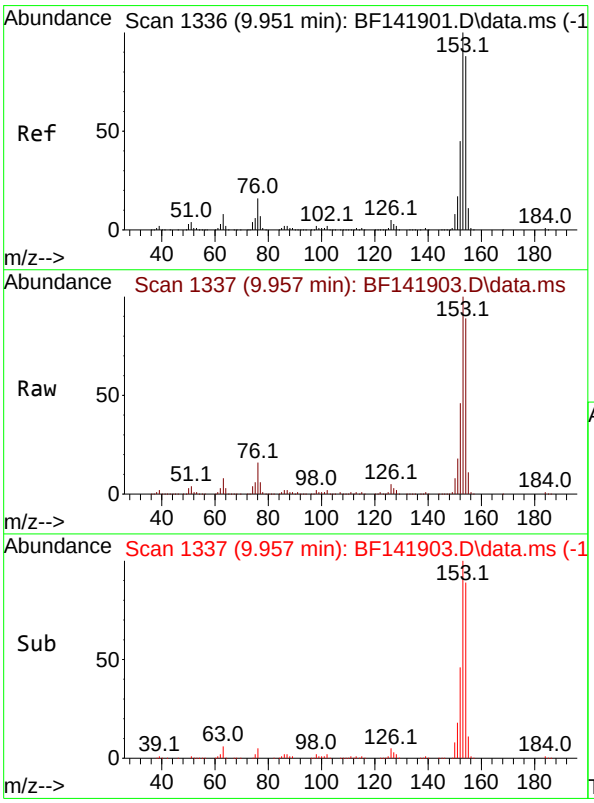
#51
2,6-Dinitrotoluene
Concen: 61.441 ng
RT: 9.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 441383

Ion	Ratio	Lower	Upper
165	100		
63	58.6	47.0	70.4
89	58.6	47.4	71.2

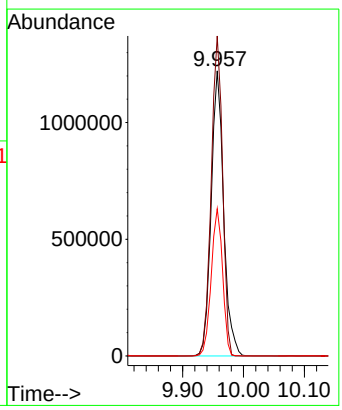


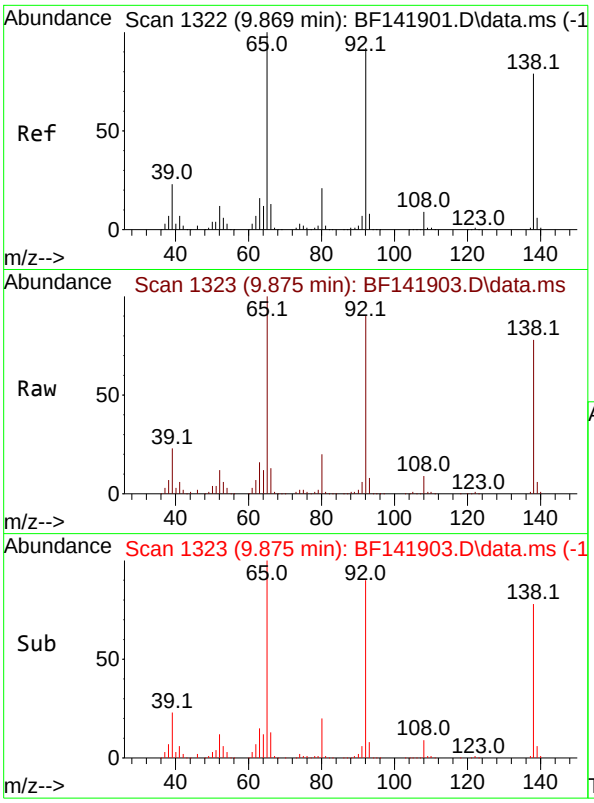


#52
Acenaphthene
Concen: 59.065 ng
RT: 9.957 min Scan# 1337
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:154 Resp: 1737049

Ion	Ratio	Lower	Upper
154	100		
153	112.2	90.7	136.1
152	51.6	41.1	61.7



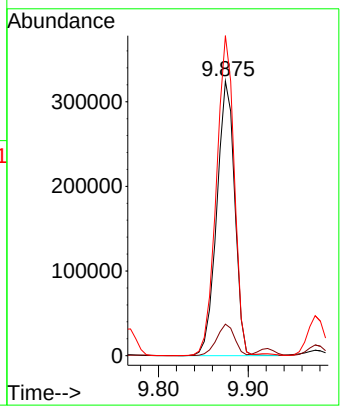


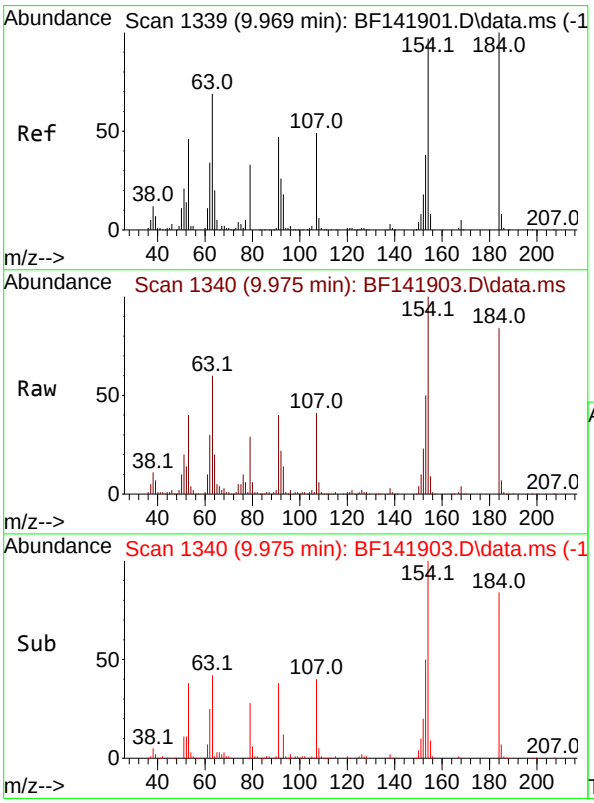
#53
3-Nitroaniline
Concen: 60.945 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 449553

Ion	Ratio	Lower	Upper
138	100		
108	11.5	9.3	13.9
92	116.5	93.5	140.3

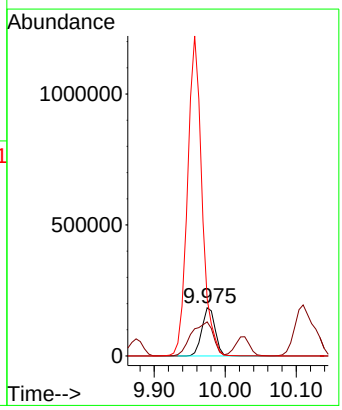


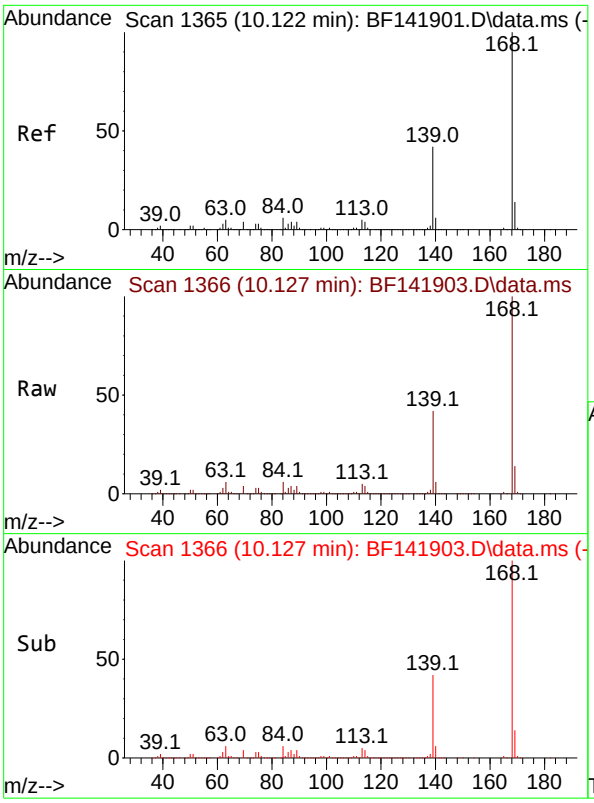


#54
2,4-Dinitrophenol
Concen: 60.329 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:184 Resp: 240530

Ion	Ratio	Lower	Upper
184	100		
63	70.8	60.2	90.4
154	118.6	132.9	199.3#



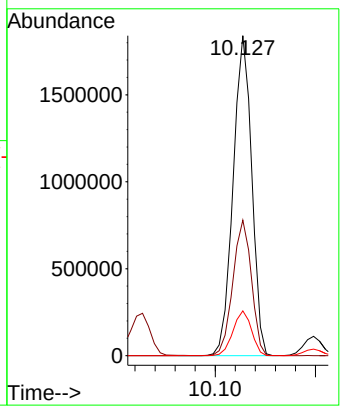


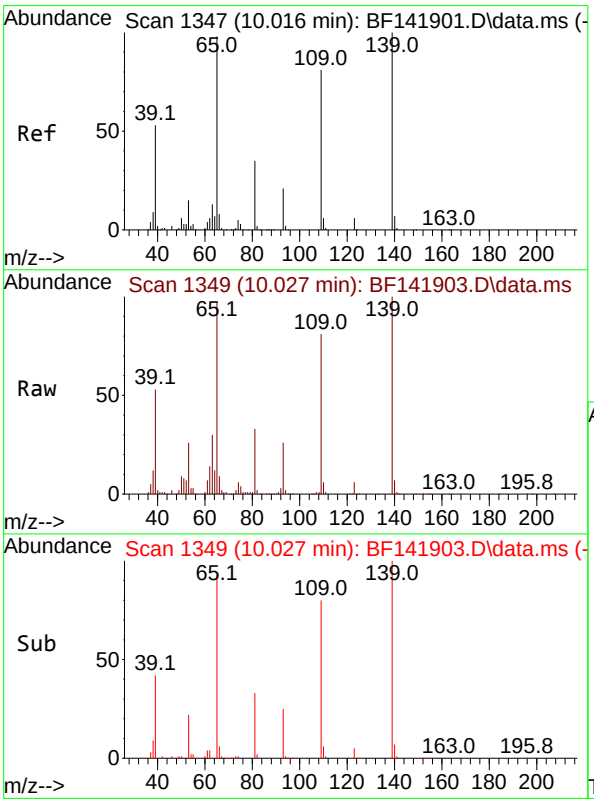
#55
Dibenzofuran
Concen: 56.781 ng
RT: 10.127 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 2380973

Ion	Ratio	Lower	Upper
168	100		
139	42.4	33.9	50.9
169	14.0	11.0	16.4

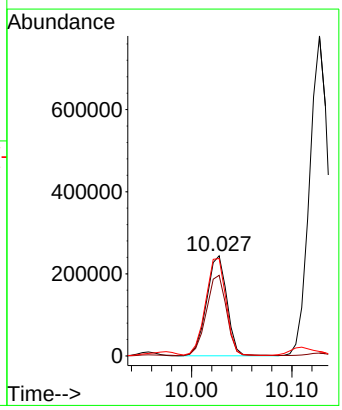


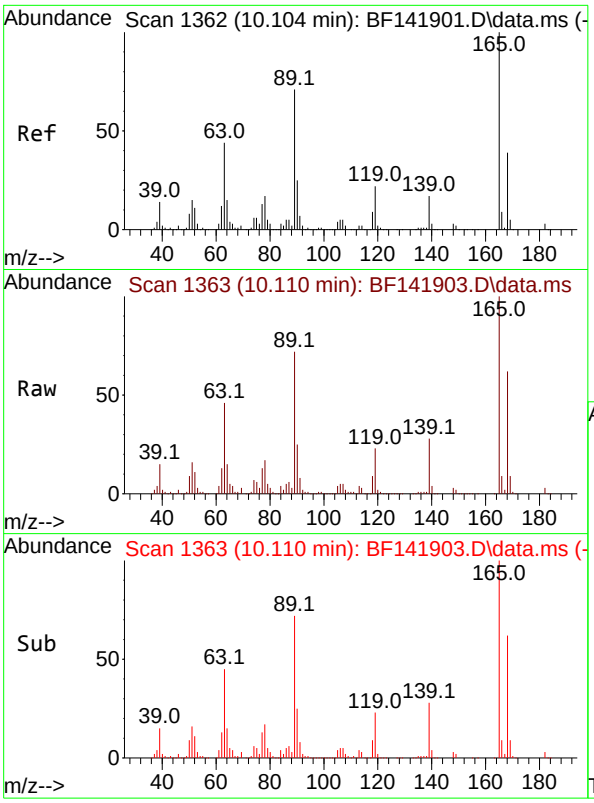


#56
4-Nitrophenol
Concen: 62.021 ng
RT: 10.027 min Scan# 1349
Delta R.T. 0.012 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:139 Resp: 343657

Ion	Ratio	Lower	Upper
139	100		
109	80.6	61.6	101.6
65	97.3	79.4	119.4



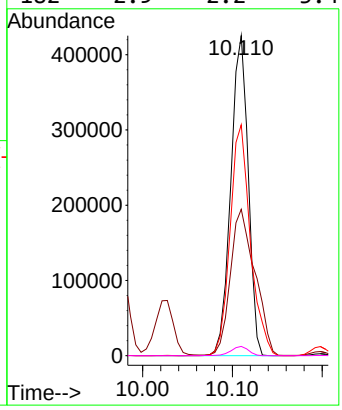


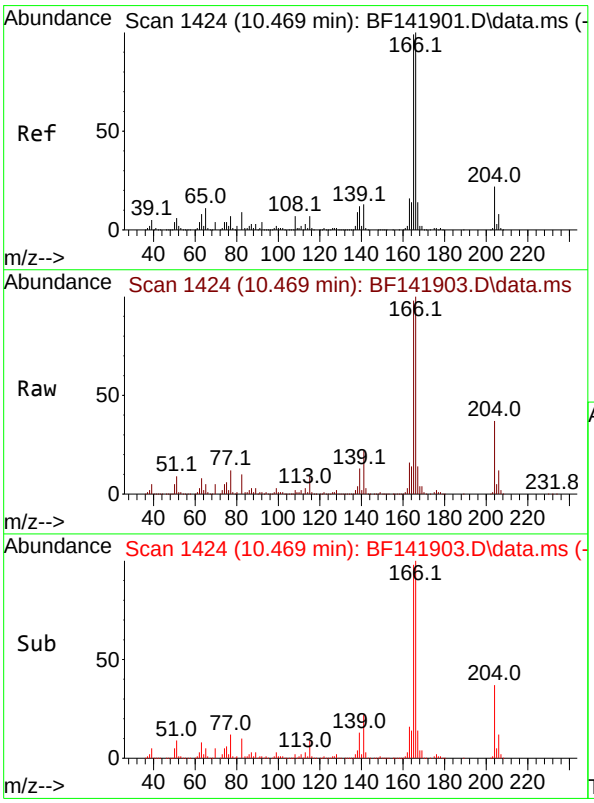
#57
2,4-Dinitrotoluene
Concen: 60.461 ng
RT: 10.110 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 571731

Ion	Ratio	Lower	Upper
165	100		
63	45.8	35.4	53.2
89	72.1	56.6	84.8
182	2.9	2.2	3.4

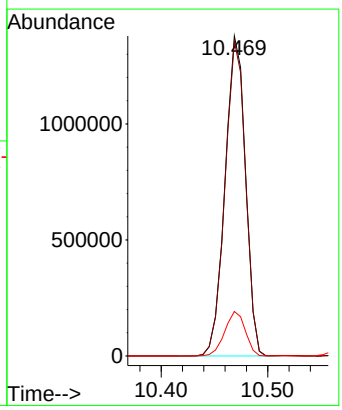


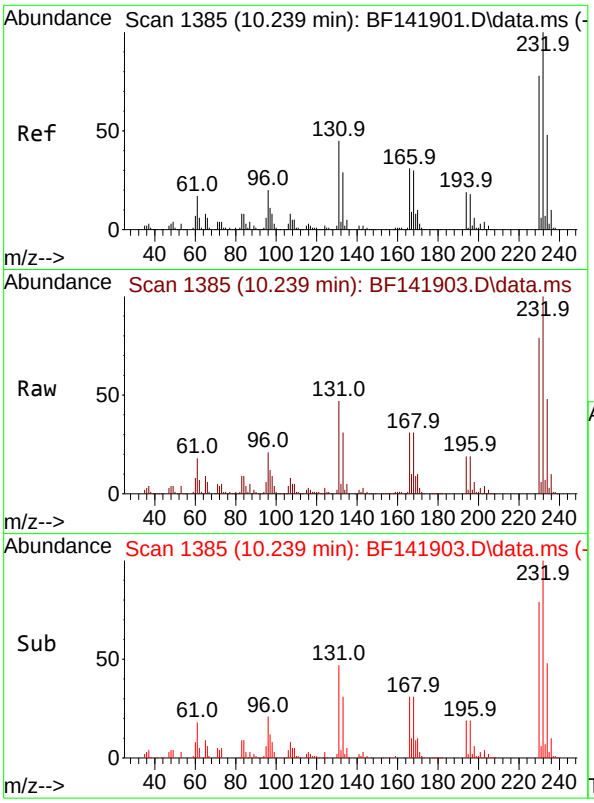


#58
Fluorene
Concen: 56.859 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:166 Resp: 1840654

Ion	Ratio	Lower	Upper
166	100		
165	98.3	79.0	118.4
167	13.9	11.0	16.4



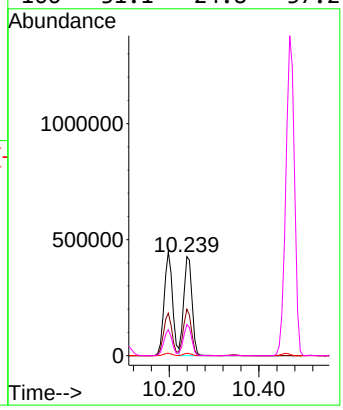


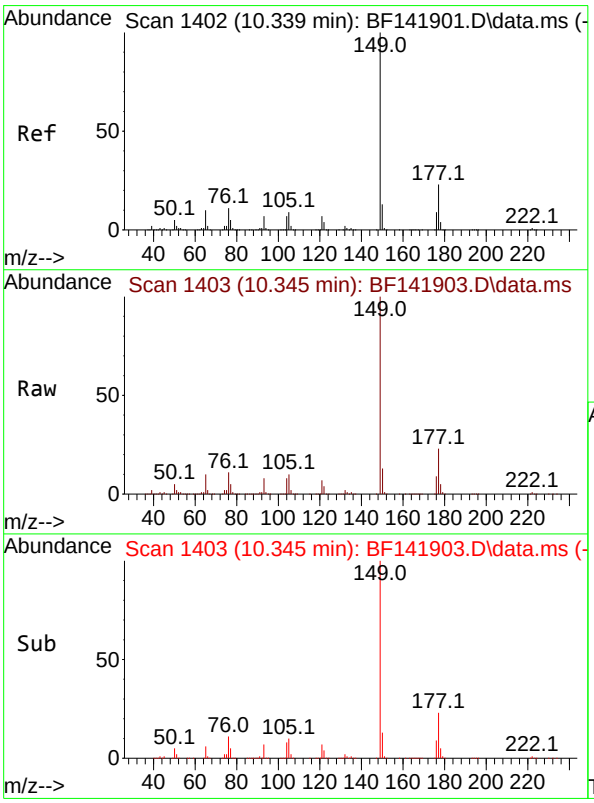
#59
2,3,4,6-Tetrachlorophenol
Concen: 60.002 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 546621

Ion	Ratio	Lower	Upper
232	100		
131	46.3	37.3	55.9
130	2.4	1.9	2.9
166	31.1	24.8	37.2

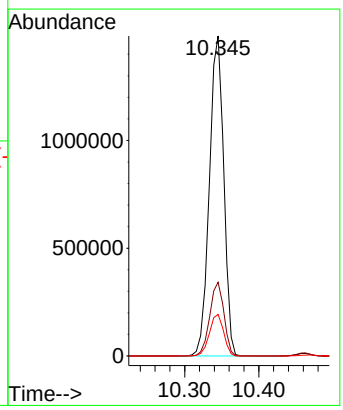


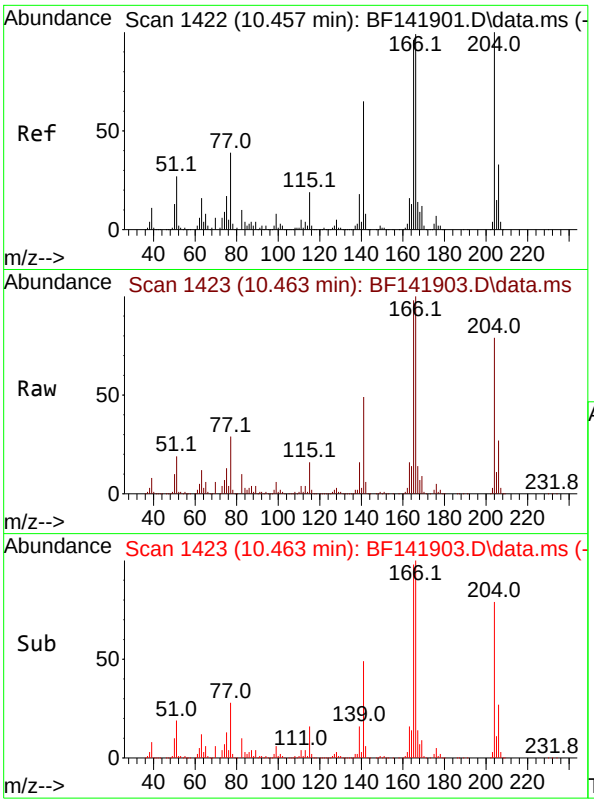


#60
Diethylphthalate
Concen: 57.552 ng
RT: 10.345 min Scan# 1403
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:149 Resp: 1995827

Ion	Ratio	Lower	Upper
149	100		
177	23.0	18.0	27.0
150	13.0	10.2	15.4



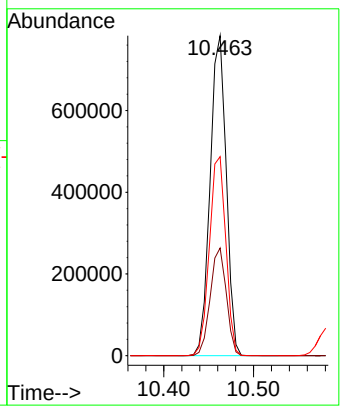


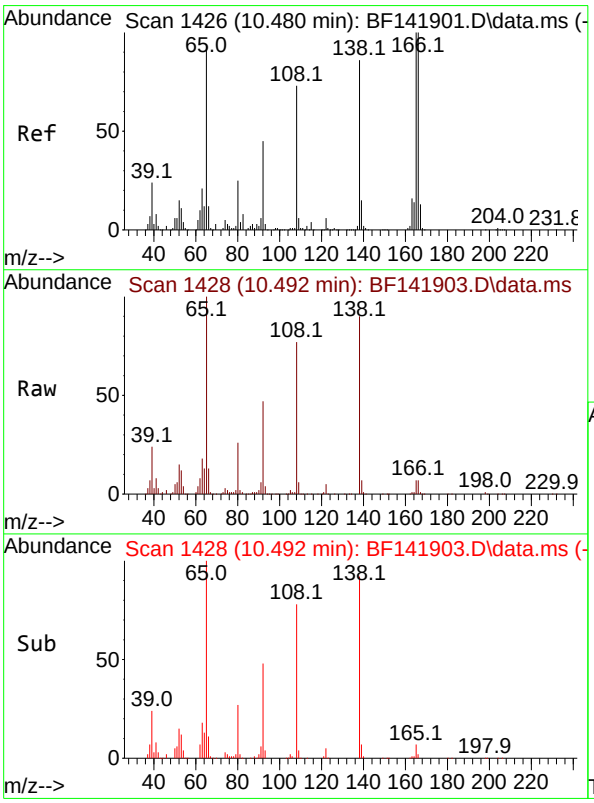
#61
4-Chlorophenyl-phenylether
Concen: 57.993 ng
RT: 10.463 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 977819

Ion	Ratio	Lower	Upper
204	100		
206	33.6	26.8	40.2
141	62.2	52.4	78.6

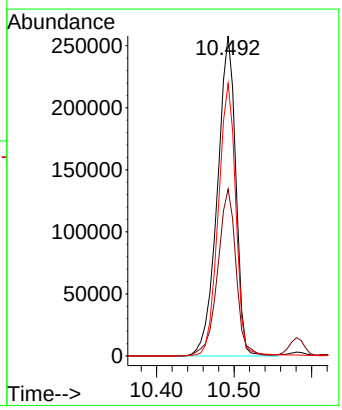


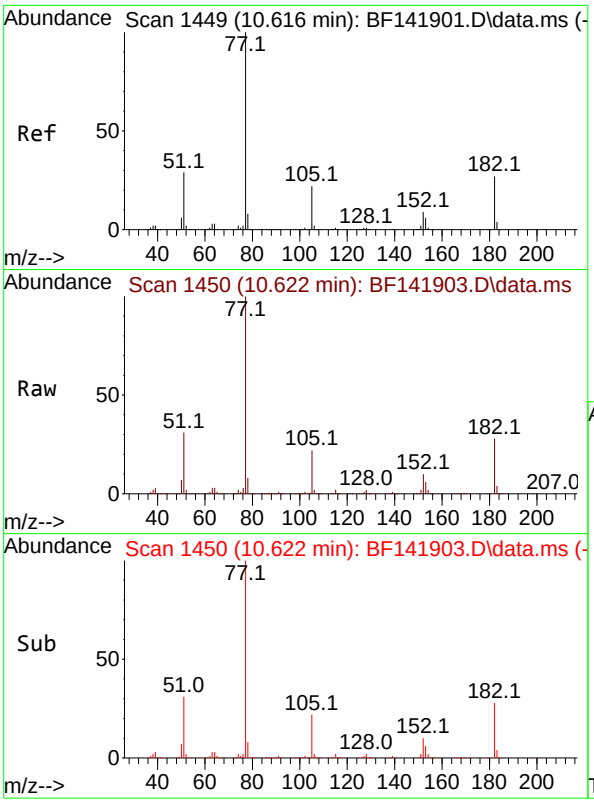


#62
4-Nitroaniline
Concen: 59.702 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.012 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:138 Resp: 426741

Ion	Ratio	Lower	Upper
138	100		
92	52.2	32.6	72.6
108	85.2	65.0	105.0



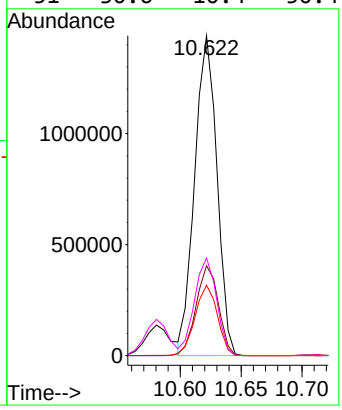


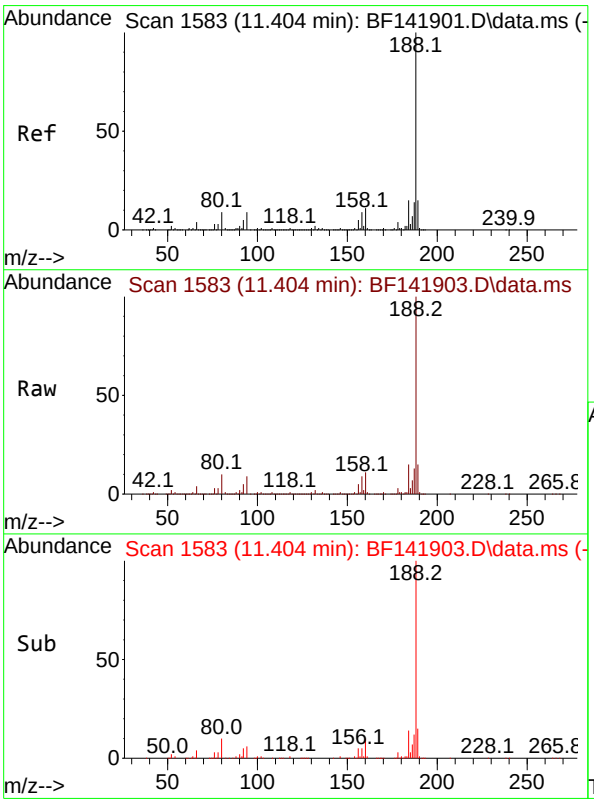
#63
Azobenzene
Concen: 56.784 ng
RT: 10.622 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 1829282

Ion	Ratio	Lower	Upper
77	100		
182	28.1	6.6	46.6
105	22.0	1.3	41.3
51	30.6	10.4	50.4

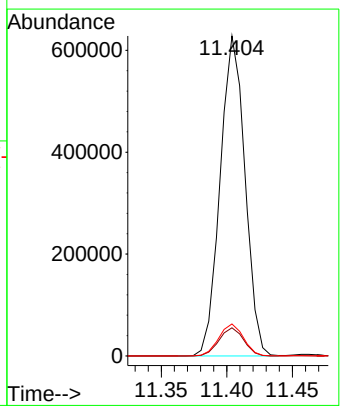


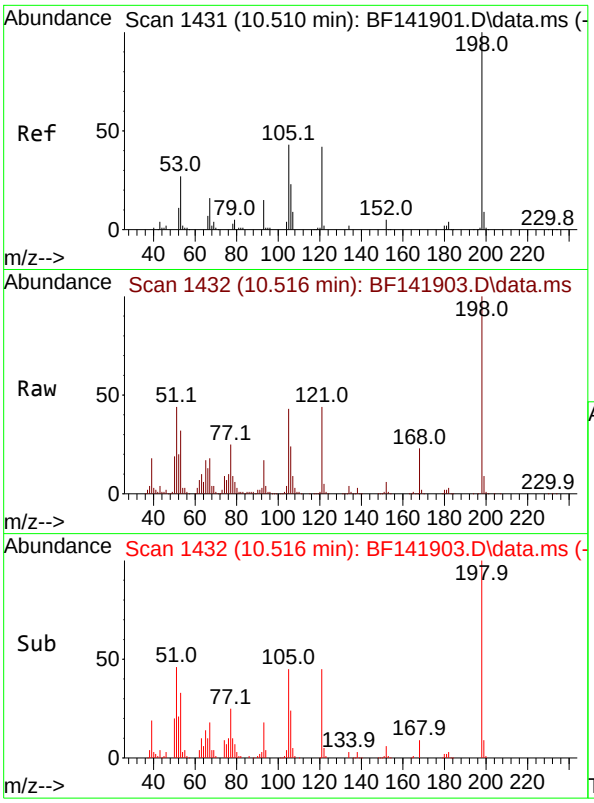


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:188 Resp: 827202

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.8	10.2
80	10.0	7.6	11.4



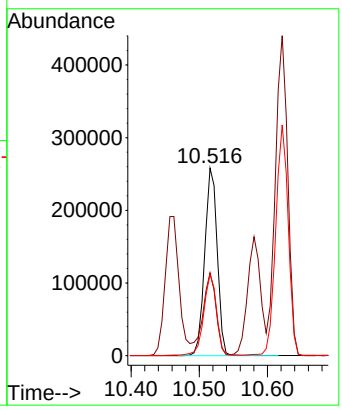


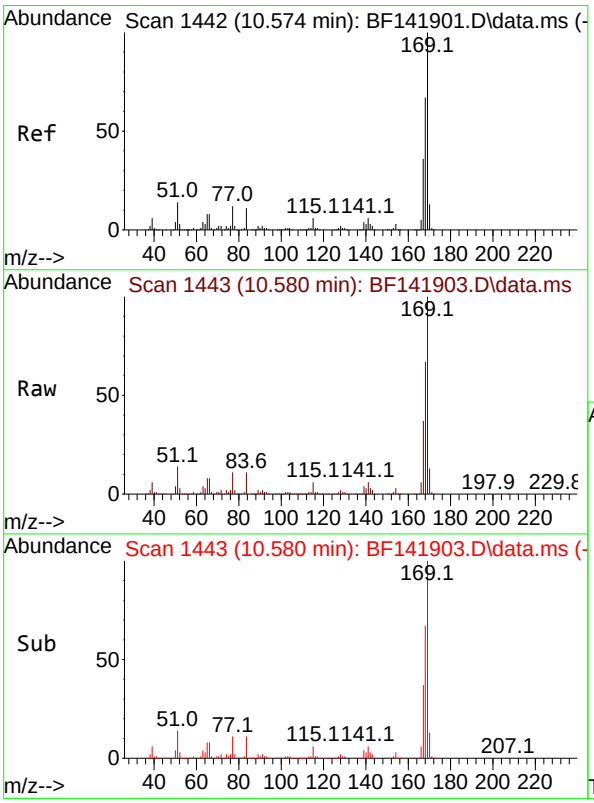
#65
4,6-Dinitro-2-methylphenol
Concen: 67.356 ng
RT: 10.516 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 330315

Ion	Ratio	Lower	Upper
198	100		
51	44.2	22.3	62.3
105	43.4	23.0	63.0

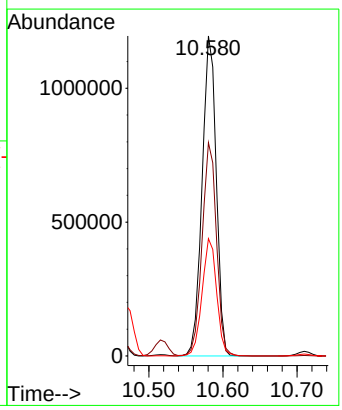


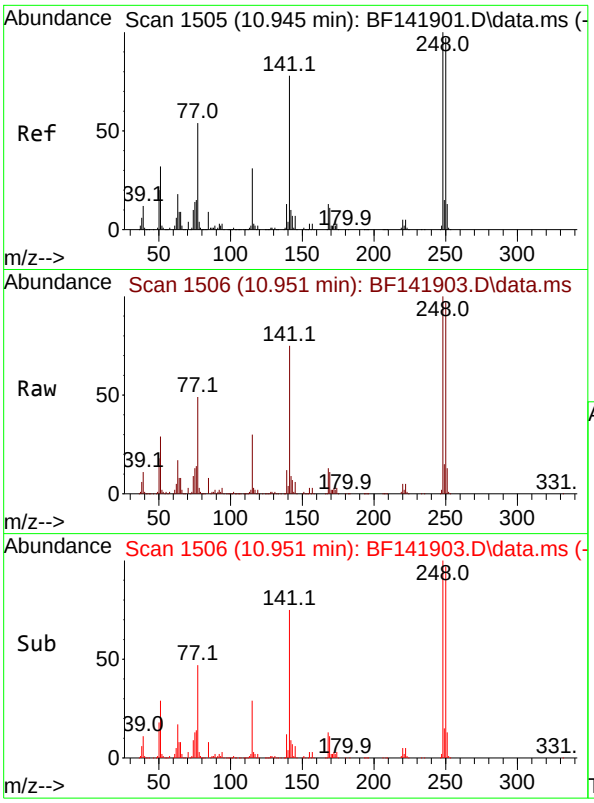


#66
n-Nitrosodiphenylamine
Concen: 59.270 ng
RT: 10.580 min Scan# 1443
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:169 Resp: 1583832

Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.7	80.5
167	36.6	29.2	43.8



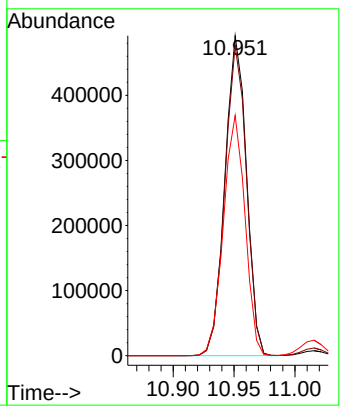


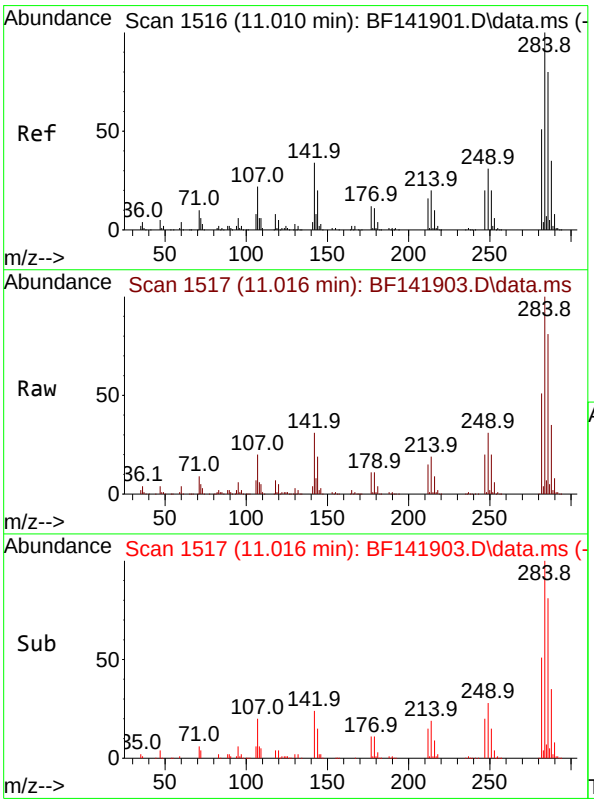
#67
4-Bromophenyl-phenylether
Concen: 59.044 ng
RT: 10.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 608246

Ion	Ratio	Lower	Upper
248	100		
250	97.0	77.8	116.8
141	75.1	62.6	93.8

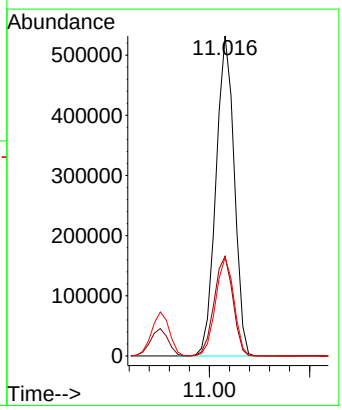


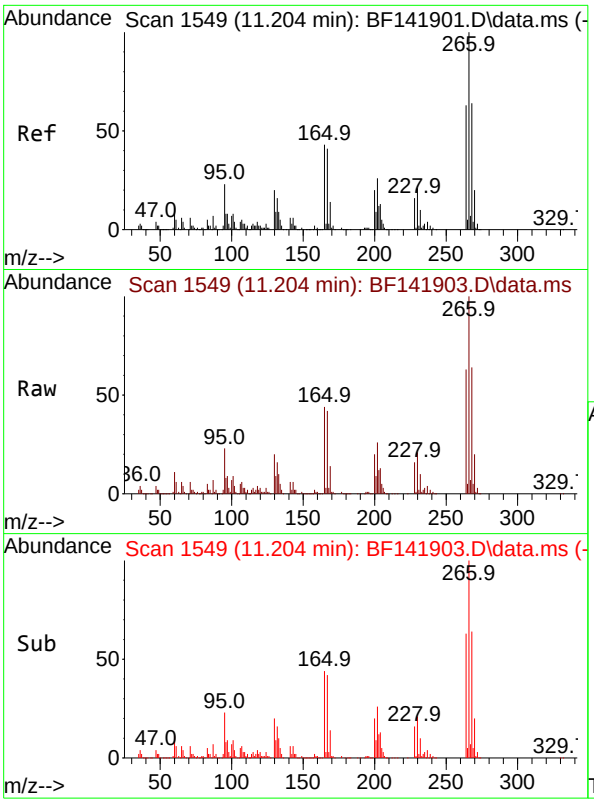


#68
Hexachlorobenzene
Concen: 59.144 ng
RT: 11.016 min Scan# 1517
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:284 Resp: 673465

Ion	Ratio	Lower	Upper
284	100		
142	31.1	27.0	40.6
249	30.8	25.2	37.8



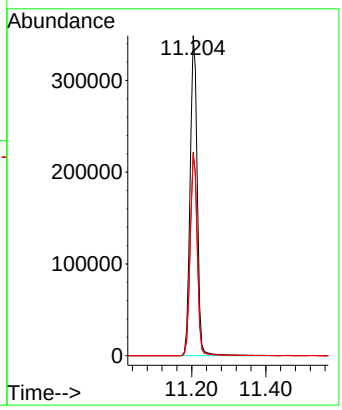


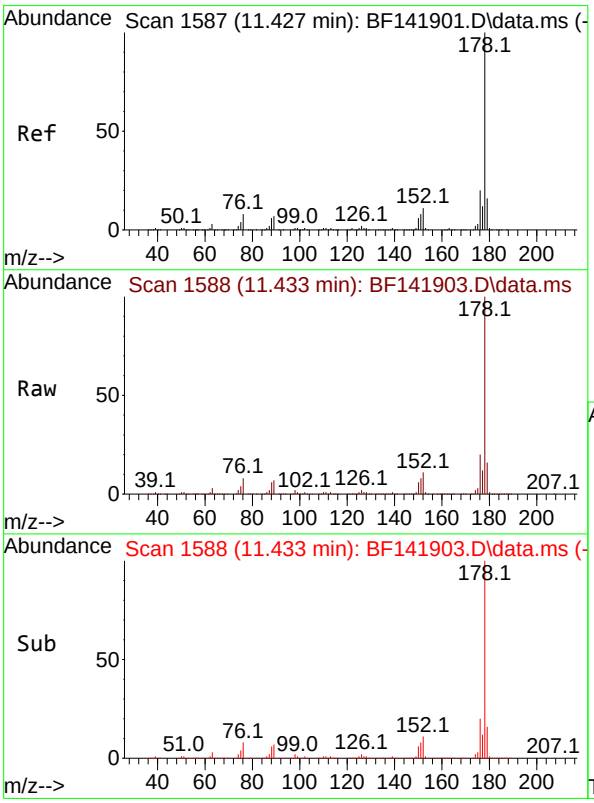
#70
Pentachlorophenol
Concen: 65.893 ng
RT: 11.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:266 Resp: 462709

Ion	Ratio	Lower	Upper
266	100		
268	63.5	51.0	76.6
264	63.1	50.2	75.2

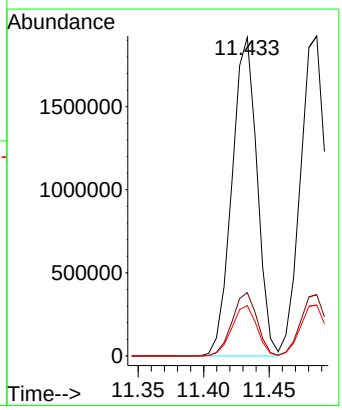


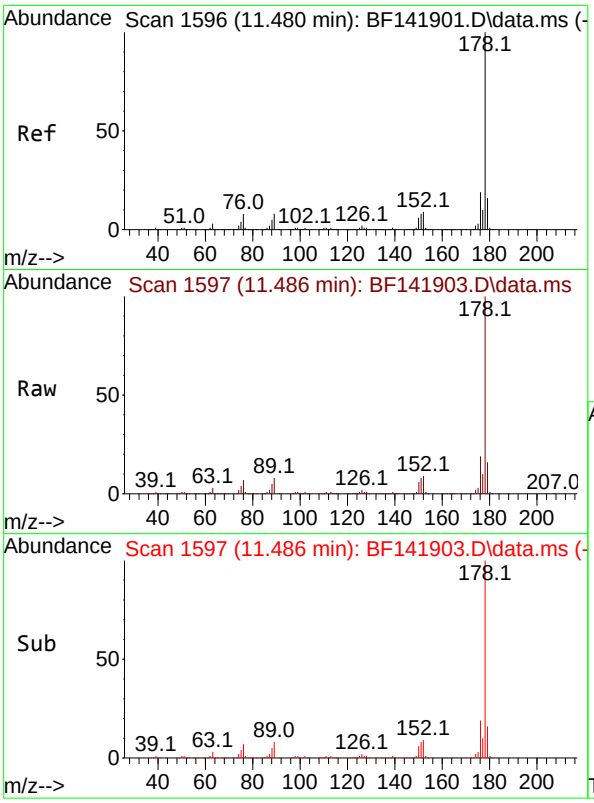


#71
Phenanthrene
Concen: 57.232 ng
RT: 11.433 min Scan# 1588
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:178 Resp: 2560092

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.8	23.8
179	15.8	12.6	19.0



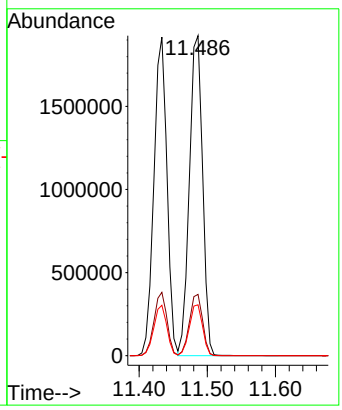


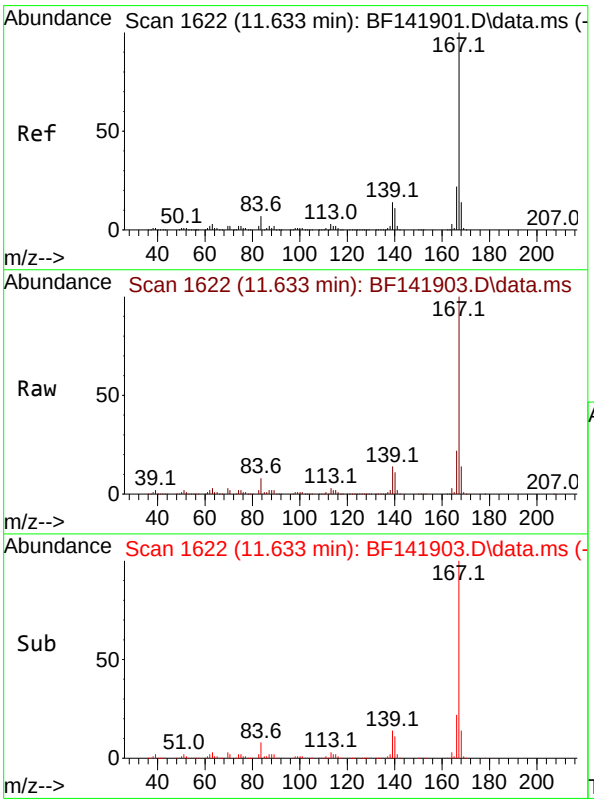
#72
Anthracene
Concen: 57.281 ng
RT: 11.486 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 2570717

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.1	22.7
179	15.9	12.6	19.0

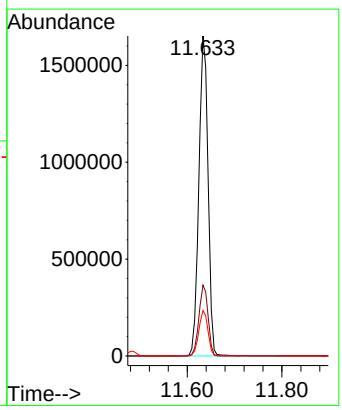


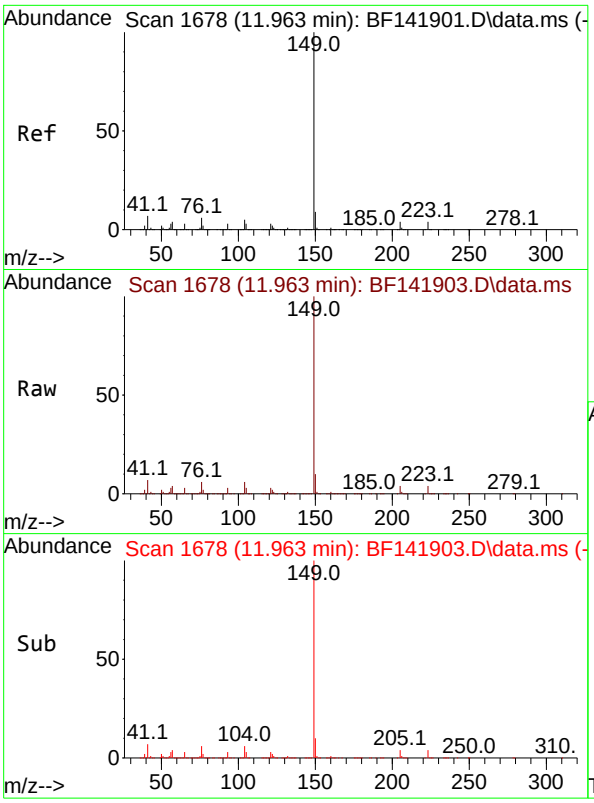


#73
Carbazole
Concen: 57.284 ng
RT: 11.633 min Scan# 1622
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:167 Resp: 2213331

Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.4	26.2
139	14.2	11.0	16.6



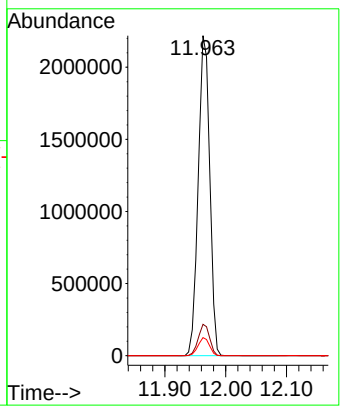


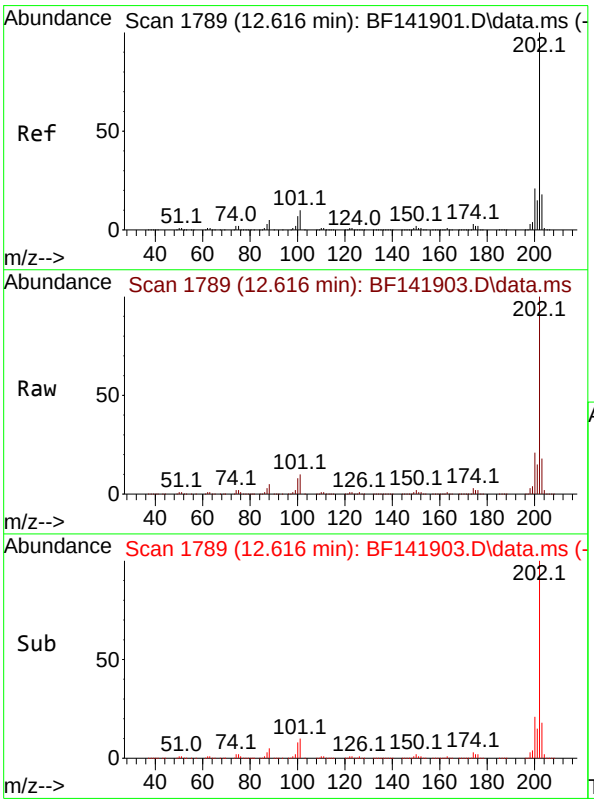
#74
Di-n-butylphthalate
Concen: 57.161 ng
RT: 11.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 2916048

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.6	11.4
104	5.6	4.4	6.6

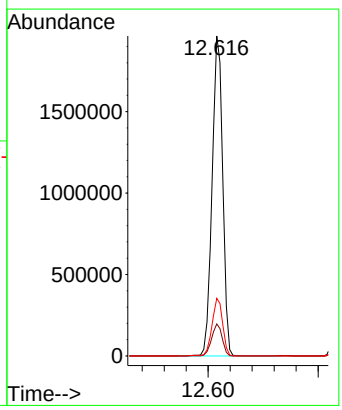


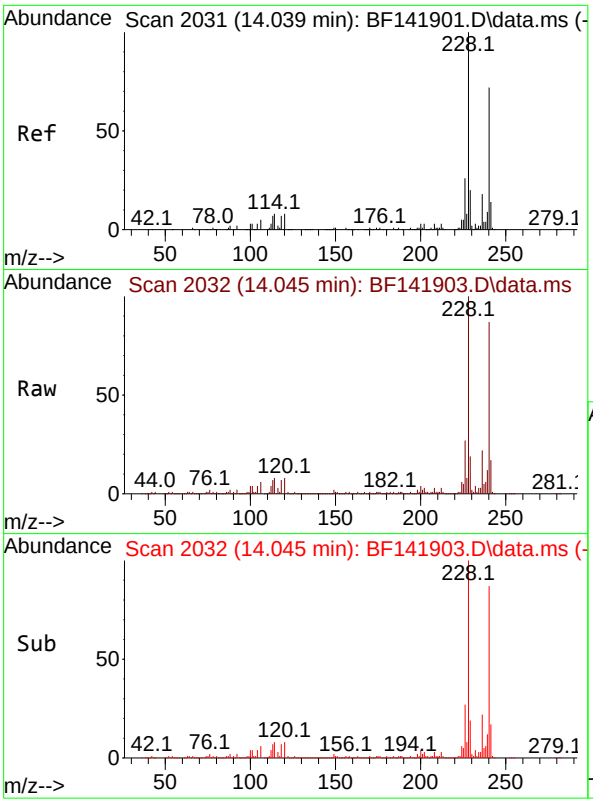


#75
Fluoranthene
Concen: 55.984 ng
RT: 12.616 min Scan# 1789
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:202 Resp: 2628993

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	29.7
203	18.0	0.0	37.8



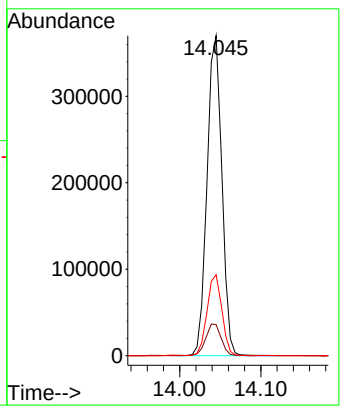


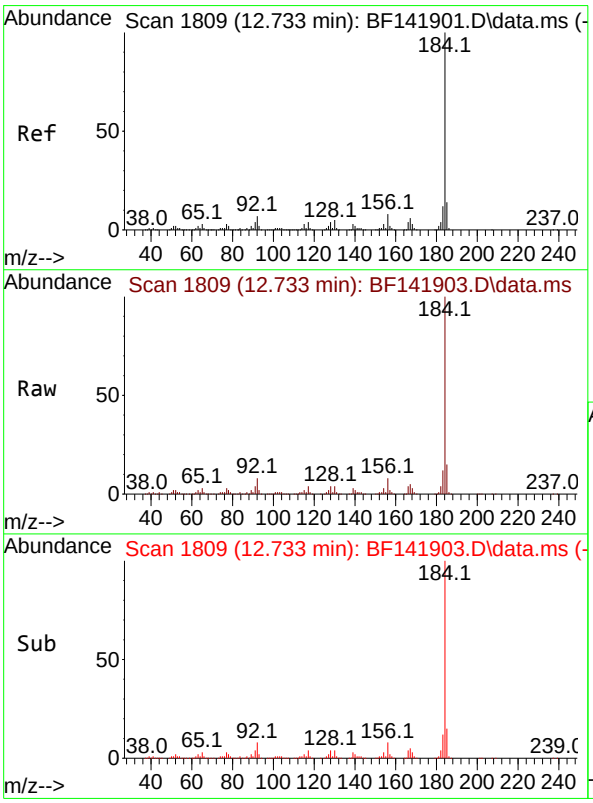
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:240 Resp: 468454

Ion	Ratio	Lower	Upper
240	100		
120	9.7	8.4	12.6
236	25.3	20.5	30.7

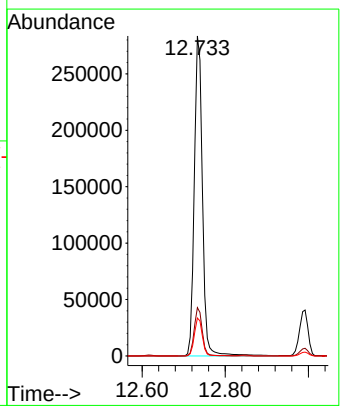


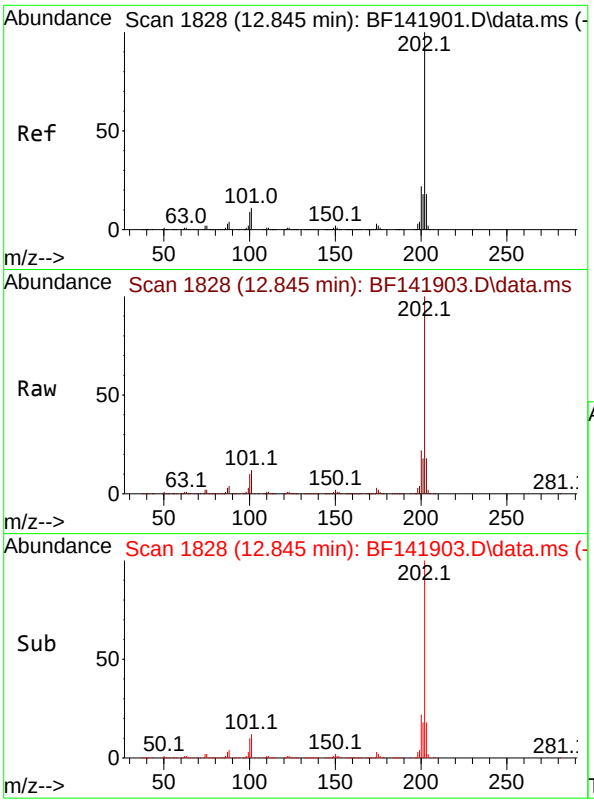


#77
Benzidine
Concen: 58.309 ng
RT: 12.733 min Scan# 1809
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:184 Resp: 386007

Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.5	17.3
183	11.9	9.7	14.5



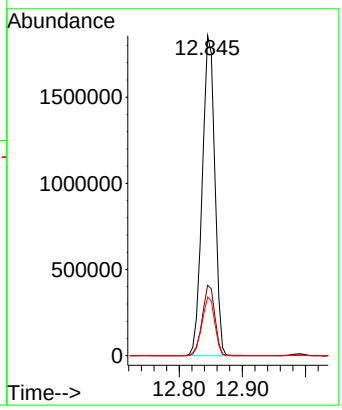


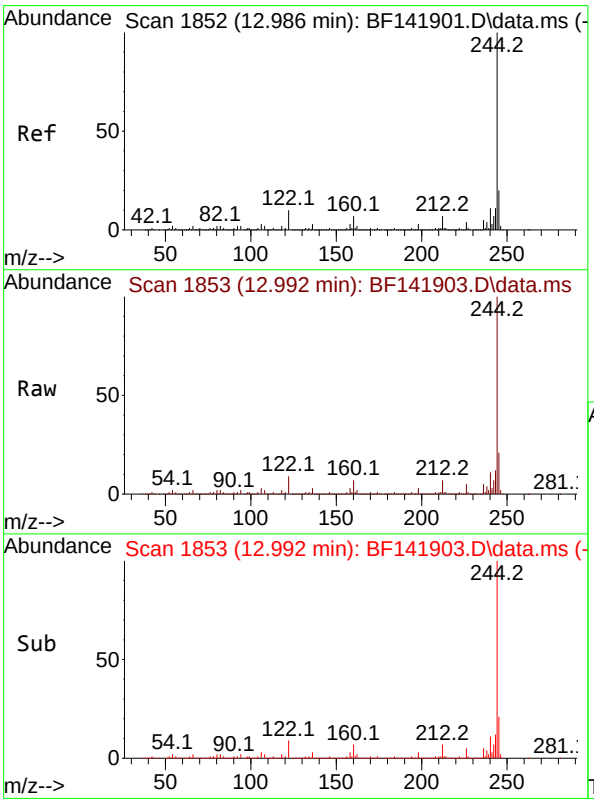
#78
Pyrene
Concen: 63.781 ng
RT: 12.845 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 2562337

Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.3	25.9
203	18.4	14.4	21.6

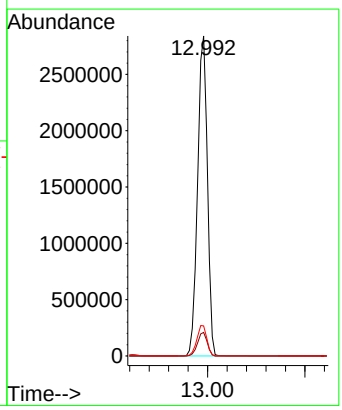


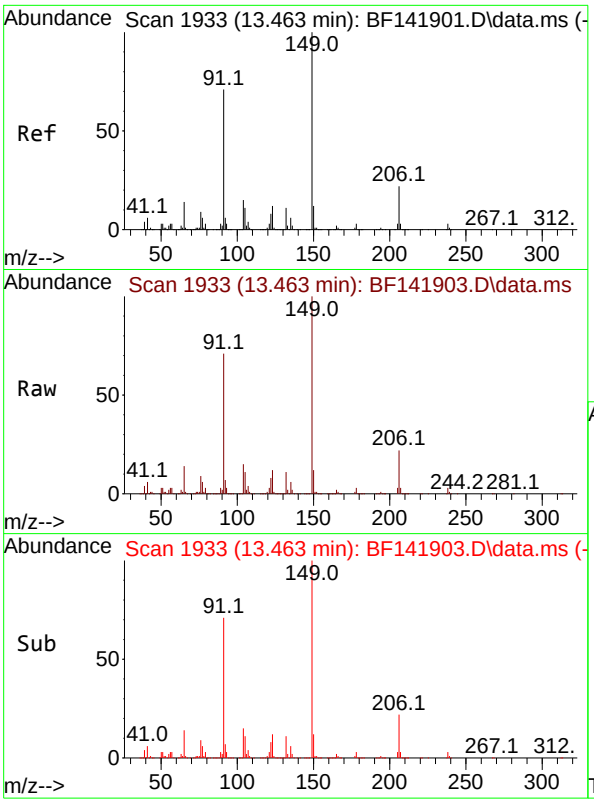


#79
Terphenyl-d14
Concen: 125.675 ng
RT: 12.992 min Scan# 1853
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:244 Resp: 3982780

Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	9.4	7.7	11.5



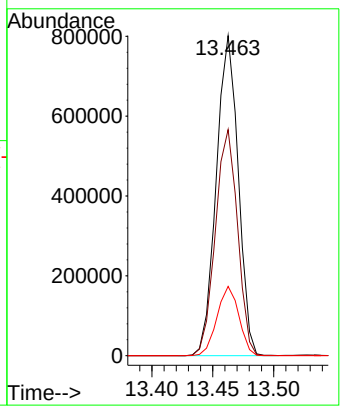


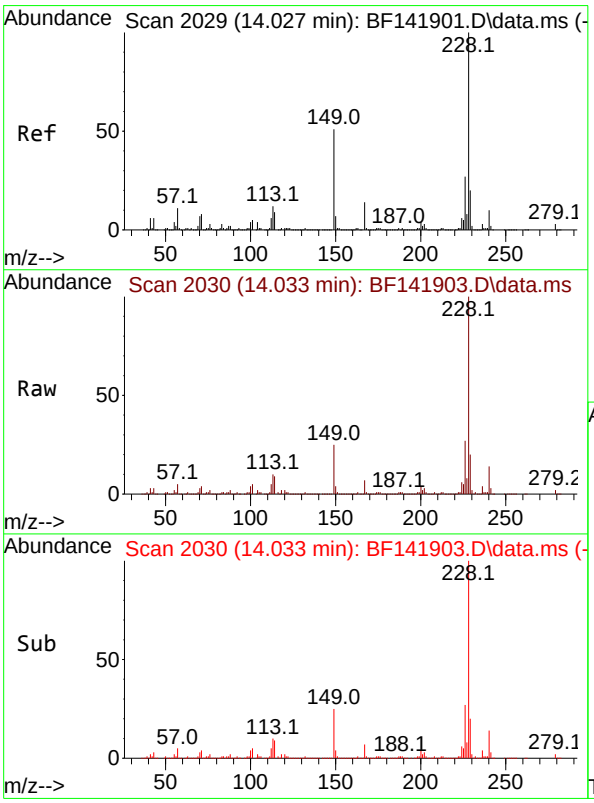
#80
Butylbenzylphthalate
Concen: 63.676 ng
RT: 13.463 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 1008043

Ion	Ratio	Lower	Upper
149	100		
91	70.7	56.5	84.7
206	21.6	17.3	25.9

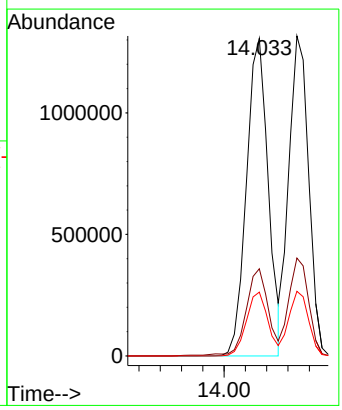


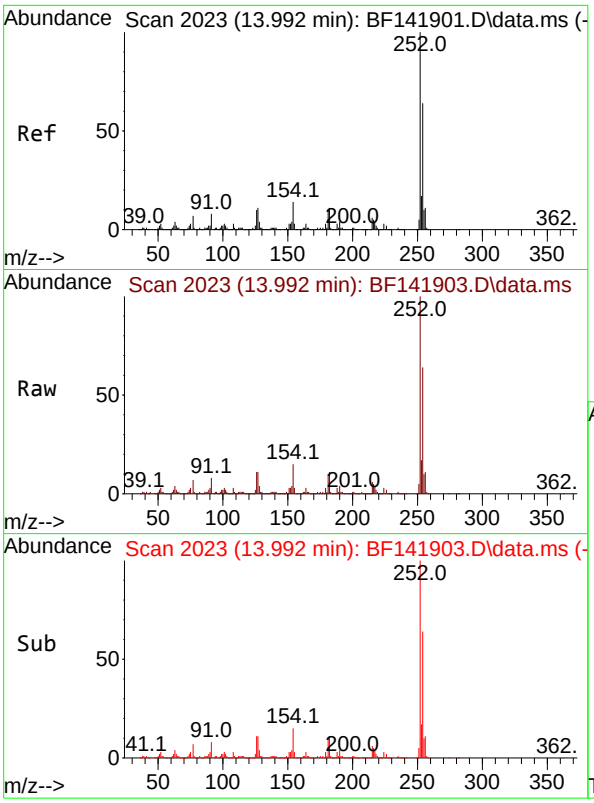


#81
Benzo(a)anthracene
Concen: 60.040 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:228 Resp: 1850347

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.8	32.8
229	20.1	16.0	24.0



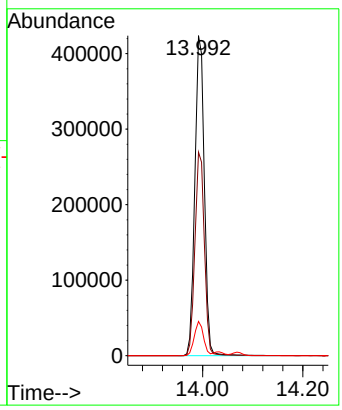


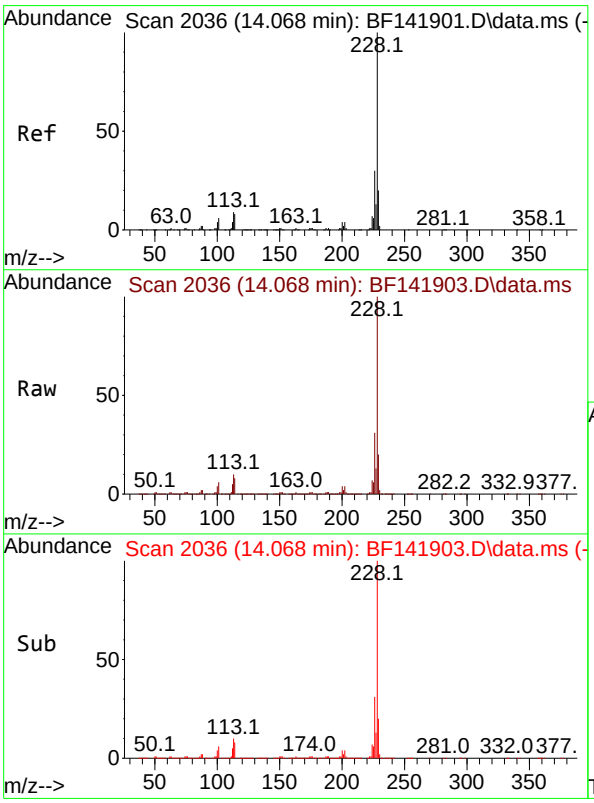
#82
3,3'-Dichlorobenzidine
Concen: 62.091 ng
RT: 13.992 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 553078

Ion	Ratio	Lower	Upper
252	100		
254	63.6	51.0	76.6
126	10.7	8.4	12.6

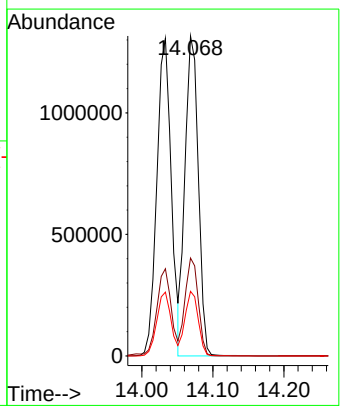


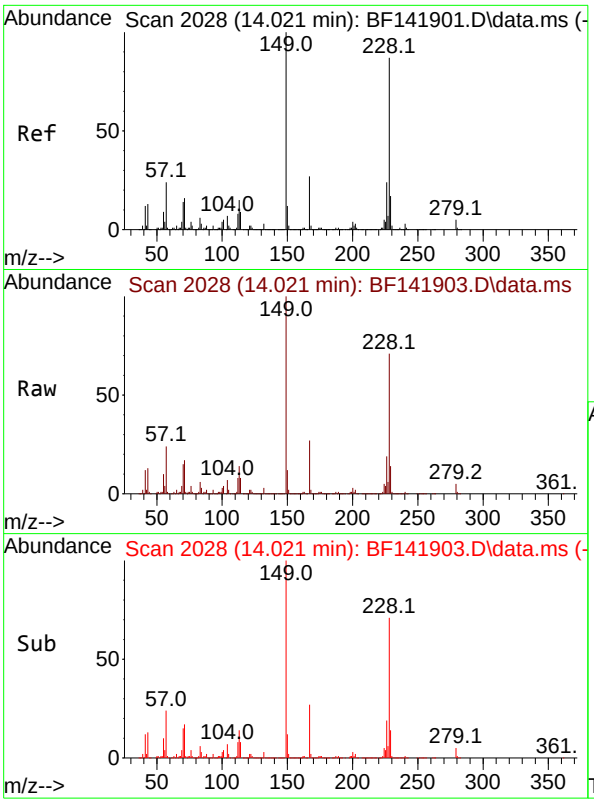


#83
Chrysene
Concen: 61.596 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:228 Resp: 1705257

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.1	36.1
229	20.2	15.7	23.5



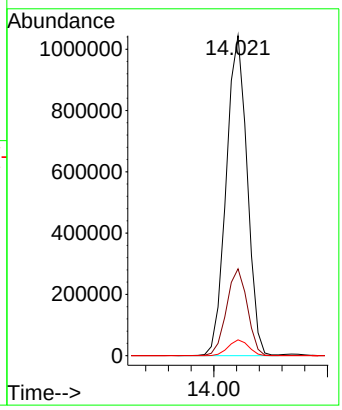


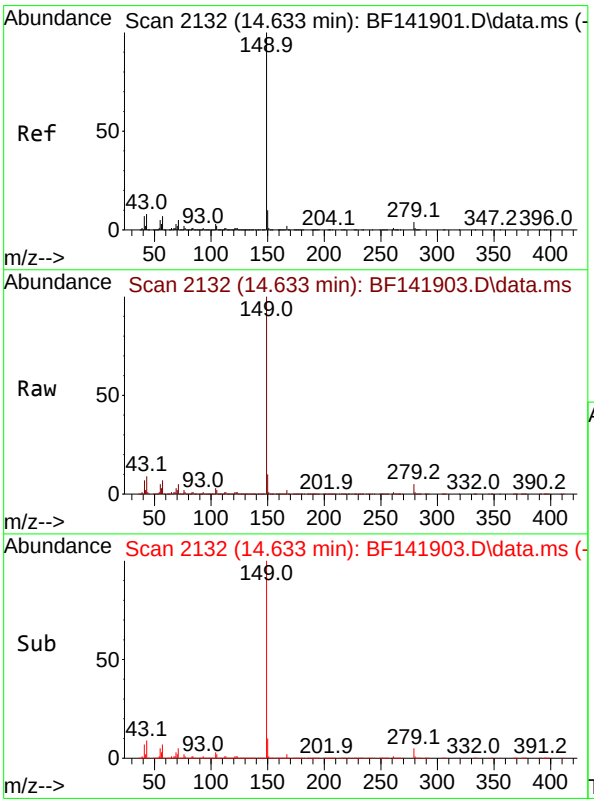
#84
Bis(2-ethylhexyl)phthalate
Concen: 61.582 ng
RT: 14.021 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 1337474

Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.4	32.0
279	4.9	3.8	5.6

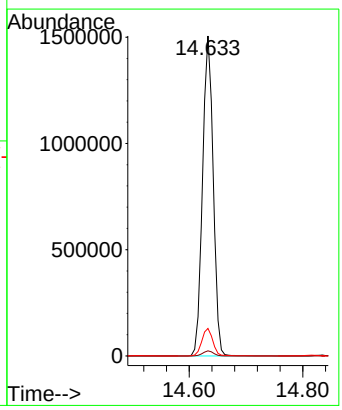


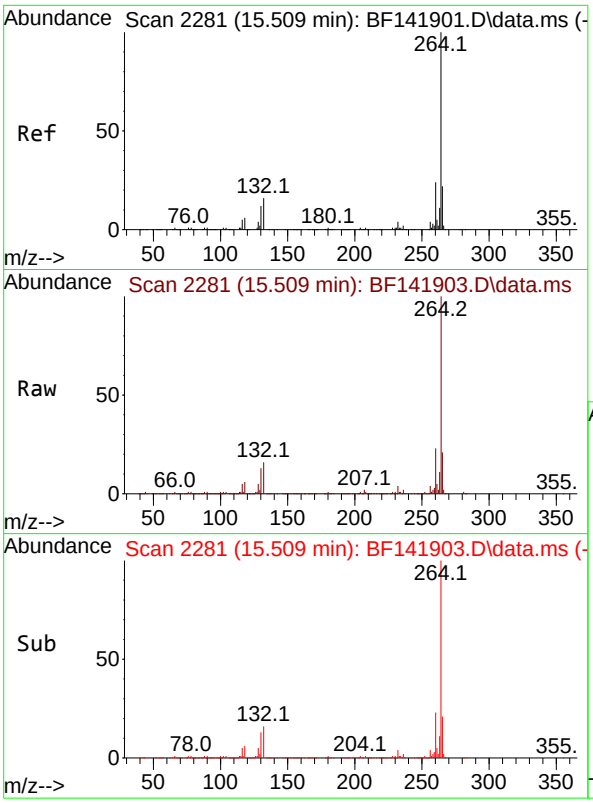


#85
Di-n-octyl phthalate
Concen: 64.613 ng
RT: 14.633 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:149 Resp: 1953184

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.9	6.9	10.3



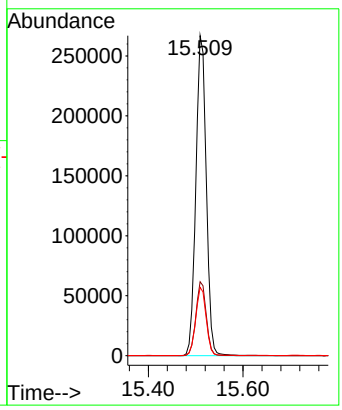


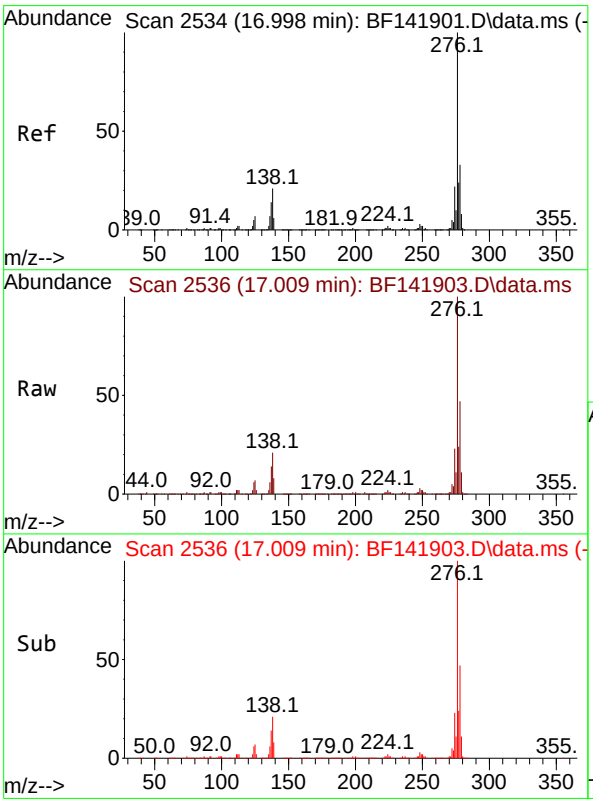
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:264 Resp: 407346

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.1	28.7
265	21.4	17.5	26.3

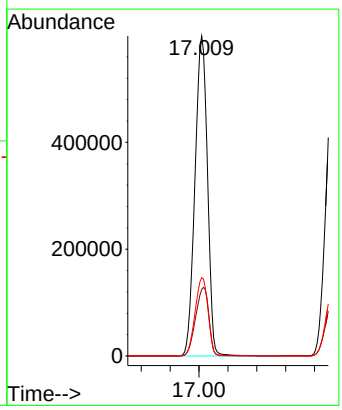


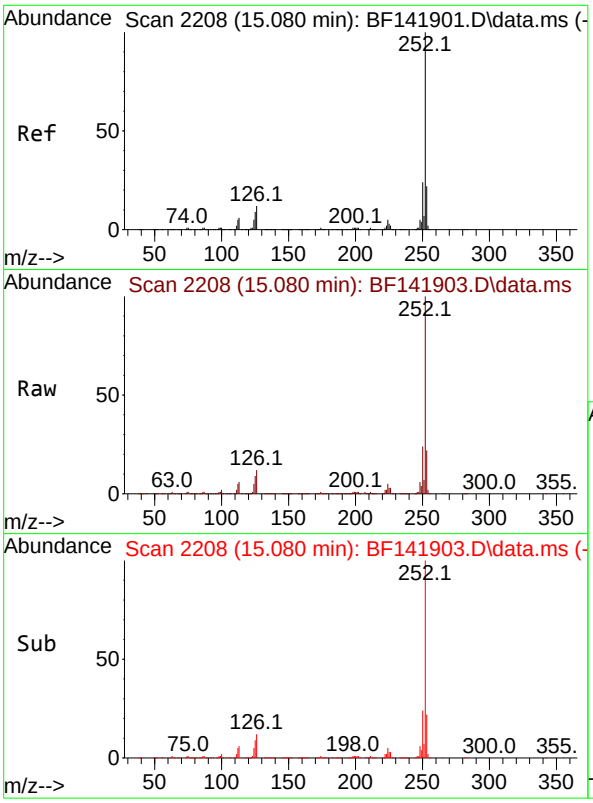


#87
Indeno(1,2,3-cd)pyrene
Concen: 68.115 ng
RT: 17.009 min Scan# 2536
Delta R.T. 0.012 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:276 Resp: 1799372

Ion	Ratio	Lower	Upper
276	100		
138	22.7	18.4	27.6
277	25.2	20.3	30.5



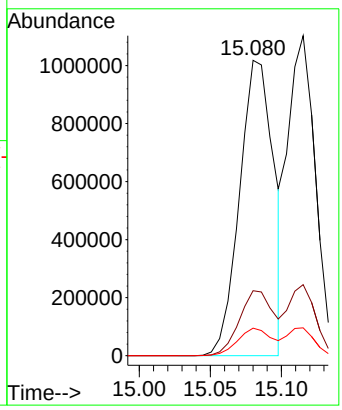


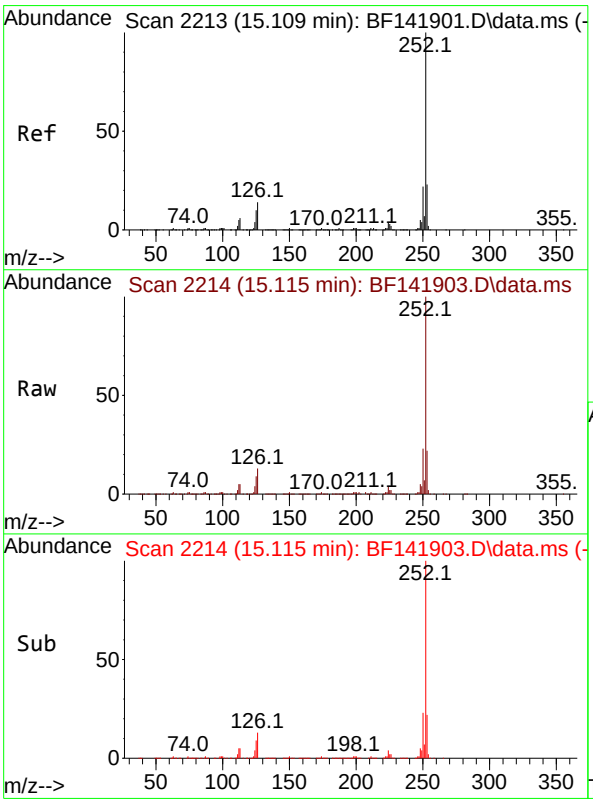
#88
Benzo(b)fluoranthene
Concen: 61.481 ng
RT: 15.080 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 1698744

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.3	7.0	10.4

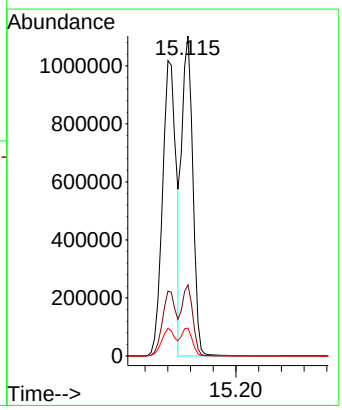


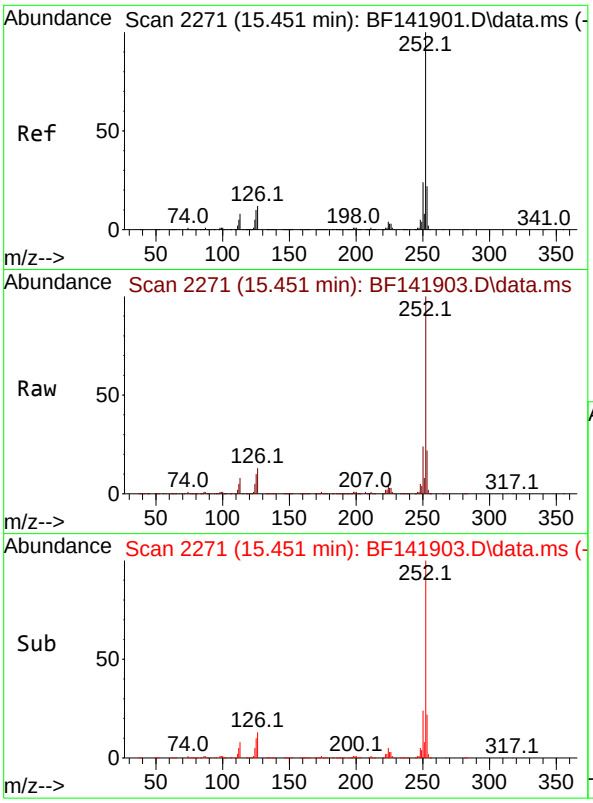


#89
Benzo(k)fluoranthene
Concen: 61.253 ng
RT: 15.115 min Scan# 2214
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:252 Resp: 1478389

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	8.7	7.2	10.8



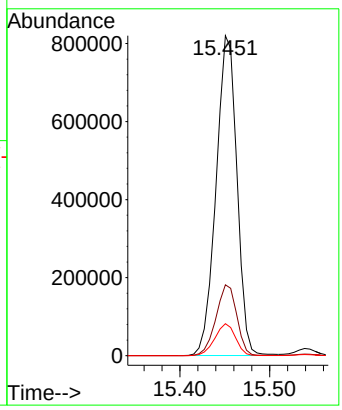


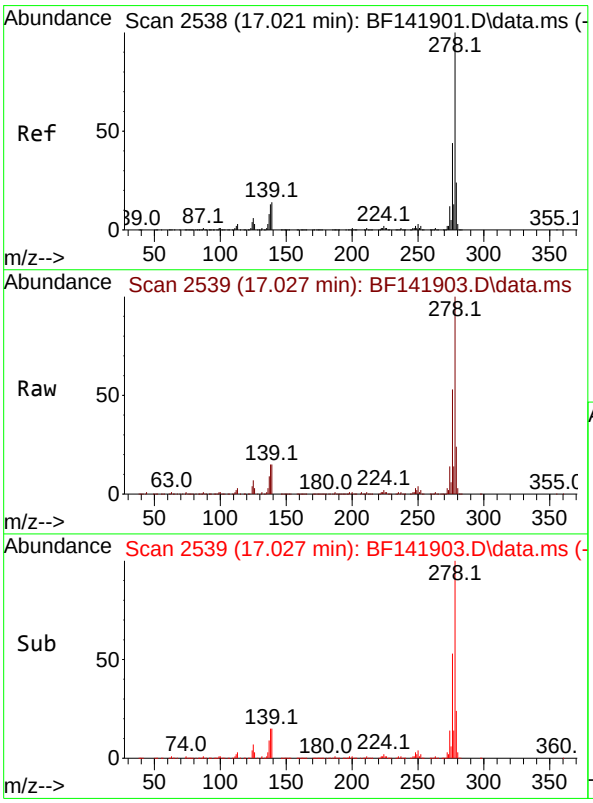
#90
Benzo(a)pyrene
Concen: 60.747 ng
RT: 15.451 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 1323726

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0
125	10.0	7.8	11.8

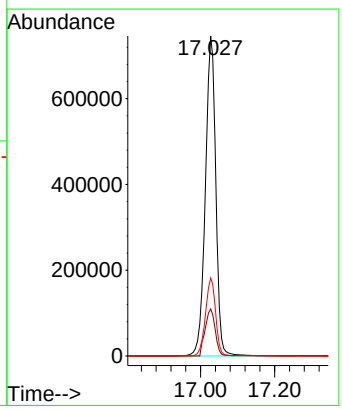


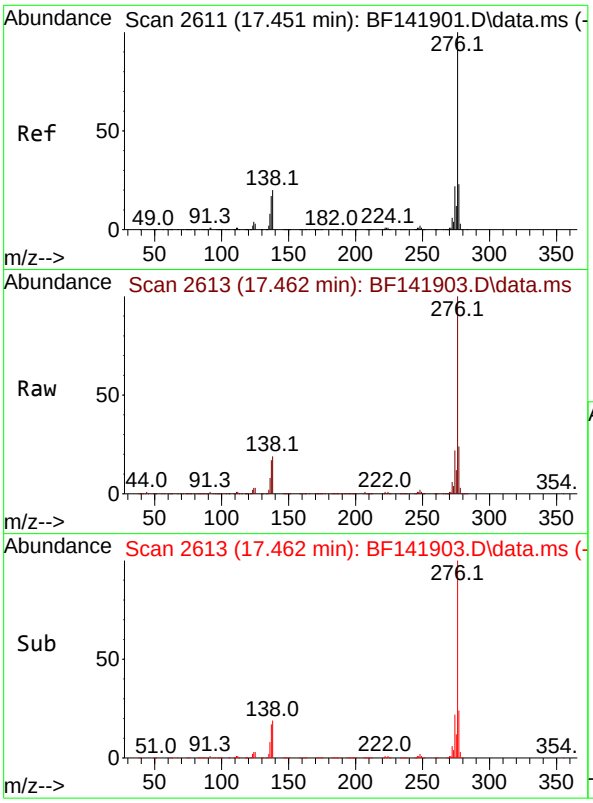


#91
Dibenzo(a,h)anthracene
Concen: 66.981 ng
RT: 17.027 min Scan# 2539
Delta R.T. 0.006 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Tgt Ion:278 Resp: 1459934

Ion	Ratio	Lower	Upper
278	100		
139	14.7	11.4	17.2
279	24.3	18.8	28.2



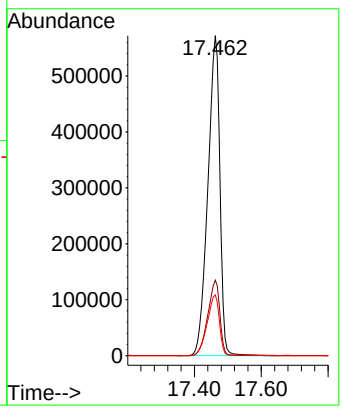


#92
Benzo(g,h,i)perylene
Concen: 65.942 ng
RT: 17.462 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141903.D
Acq: 10 Mar 2025 13:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 1425582

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.7	28.1
138	19.0	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141904.D
Acq On : 10 Mar 2025 14:27
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 10 15:37:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	214737	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	826030	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	452864	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	738472	20.000	ng		0.00
76) Chrysene-d12	14.045	240	424370	20.000	ng		0.00
86) Perylene-d12	15.510	264	391768	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	1930406	149.991	ng		0.00
7) Phenol-d6	6.522	99	2446183	149.235	ng		0.02
23) Nitrobenzene-d5	7.457	82	2335417	158.463	ng		0.01
42) 2,4,6-Tribromophenol	10.716	330	986206	171.858	ng		0.01
45) 2-Fluorobiphenyl	9.245	172	4513418	151.763	ng		0.00
79) Terphenyl-d14	12.992	244	4700026	163.713	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.669	88	436007	80.831	ng		98
3) Pyridine	3.440	79	1059473	79.923	ng		99
4) n-Nitrosodimethylamine	3.416	42	521442	82.752	ng		99
6) Aniline	6.563	93	1160437	71.712	ng		99
8) 2-Chlorophenol	6.675	128	1078659	75.616	ng		98
10) Phenol	6.534	94	1285145	74.308	ng		89
11) bis(2-Chloroethyl)ether	6.628	93	968280	74.725	ng		99
12) 1,3-Dichlorobenzene	6.828	146	1173924	76.153	ng		100
13) 1,4-Dichlorobenzene	6.904	146	1181975	75.784	ng		99
14) 1,2-Dichlorobenzene	7.063	146	1093316	74.440	ng		99
15) Benzyl Alcohol	7.034	79	1013314	76.376	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.163	45	1127534	72.198	ng		98
17) 2-Methylphenol	7.134	107	876665	77.326	ng		98
18) Hexachloroethane	7.398	117	448765	76.745	ng		96
19) n-Nitroso-di-n-propyla...	7.316	70	783318	74.351	ng		100
20) 3+4-Methylphenols	7.298	107	1050191	72.219	ng	#	84
22) Acetophenone	7.304	105	1496035	75.498	ng	#	95
24) Nitrobenzene	7.475	77	1162753	79.572	ng		100
25) Isophorone	7.722	82	2056405	79.032	ng		100
26) 2-Nitrophenol	7.787	139	599261	83.688	ng		99
27) 2,4-Dimethylphenol	7.822	122	767514	77.821	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	1248549	76.598	ng		100
29) 2,4-Dichlorophenol	8.028	162	971886	79.403	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	1062793	78.705	ng		99
31) Naphthalene	8.192	128	3152444	74.497	ng		99
32) Benzoic acid	7.975	122	795850	92.323	ng		98
33) 4-Chloroaniline	8.239	127	1088546	72.896	ng		100
34) Hexachlorobutadiene	8.304	225	713827	81.299	ng		99
35) Caprolactam	8.639	113	311758m	83.763	ng		
36) 4-Chloro-3-methylphenol	8.716	107	1056917	77.644	ng		99
37) 2-Methylnaphthalene	8.881	142	2129990	75.023	ng		100
38) 1-Methylnaphthalene	8.981	142	2050191	74.568	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	1127671	81.667	ng		98
41) Hexachlorocyclopentadiene	9.028	237	463300	85.031	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	741710	82.399	ng		100
44) 2,4,5-Trichlorophenol	9.198	196	736926	80.579	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141904.D
Acq On : 10 Mar 2025 14:27
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 15:37:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	9.345	154	2626697	76.503	ng		99
47) 2-Chloronaphthalene	9.369	162	1992242	77.859	ng		99
48) 2-Nitroaniline	9.463	65	597778	81.326	ng		98
49) Acenaphthylene	9.786	152	2878496	75.877	ng		99
50) Dimethylphthalate	9.657	163	2428843	77.192	ng		100
51) 2,6-Dinitrotoluene	9.710	165	529139	80.867	ng		99
52) Acenaphthene	9.957	154	2085941	77.872	ng		99
53) 3-Nitroaniline	9.881	138	526980	78.435	ng		100
54) 2,4-Dinitrophenol	9.981	184	305399	81.479	ng	#	55
55) Dibenzofuran	10.128	168	2844432	74.474	ng		99
56) 4-Nitrophenol	10.033	139	416153	82.456	ng		97
57) 2,4-Dinitrotoluene	10.116	165	681278	79.099	ng		95
58) Fluorene	10.475	166	2210653	74.974	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	668027	80.507	ng		99
60) Diethylphthalate	10.345	149	2358921	74.681	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	1209021	78.724	ng		97
62) 4-Nitroaniline	10.504	138	502894	77.243	ng		98
63) Azobenzene	10.622	77	2168742	73.911	ng		99
65) 4,6-Dinitro-2-methylph...	10.522	198	404505	92.396	ng		98
66) n-Nitrosodiphenylamine	10.586	169	1882098	78.895	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	774645	84.232	ng		95
68) Hexachlorobenzene	11.016	284	862357	84.832	ng		97
70) Pentachlorophenol	11.210	266	563030	89.813	ng		100
71) Phenanthrene	11.433	178	3020950	75.649	ng		99
72) Anthracene	11.486	178	3031014	75.653	ng		99
73) Carbazole	11.639	167	2552563	74.002	ng		98
74) Di-n-butylphthalate	11.969	149	3342776	73.399	ng		99
75) Fluoranthene	12.622	202	3005566	71.694	ng		99
77) Benzidine	12.733	184	427770	71.330	ng		99
78) Pyrene	12.851	202	2930115	80.513	ng		99
80) Butylbenzylphthalate	13.463	149	1149989	80.189	ng		99
81) Benzo(a)anthracene	14.033	228	2196935	78.692	ng		100
82) 3,3'-Dichlorobenzidine	13.998	252	652678	80.884	ng		99
83) Chrysene	14.074	228	2018832	80.498	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	1573231	79.962	ng		98
85) Di-n-octyl phthalate	14.633	149	2310836	84.386	ng		100
87) Indeno(1,2,3-cd)pyrene	17.009	276	2238588	88.111	ng		99
88) Benzo(b)fluoranthene	15.086	252	2246428	84.536	ng		99
89) Benzo(k)fluoranthene	15.116	252	1631675	70.292	ng		99
90) Benzo(a)pyrene	15.457	252	1725632	82.339	ng		100
91) Dibenzo(a,h)anthracene	17.033	278	1846778	88.098	ng		99
92) Benzo(g,h,i)perylene	17.468	276	1828662	87.950	ng		99

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

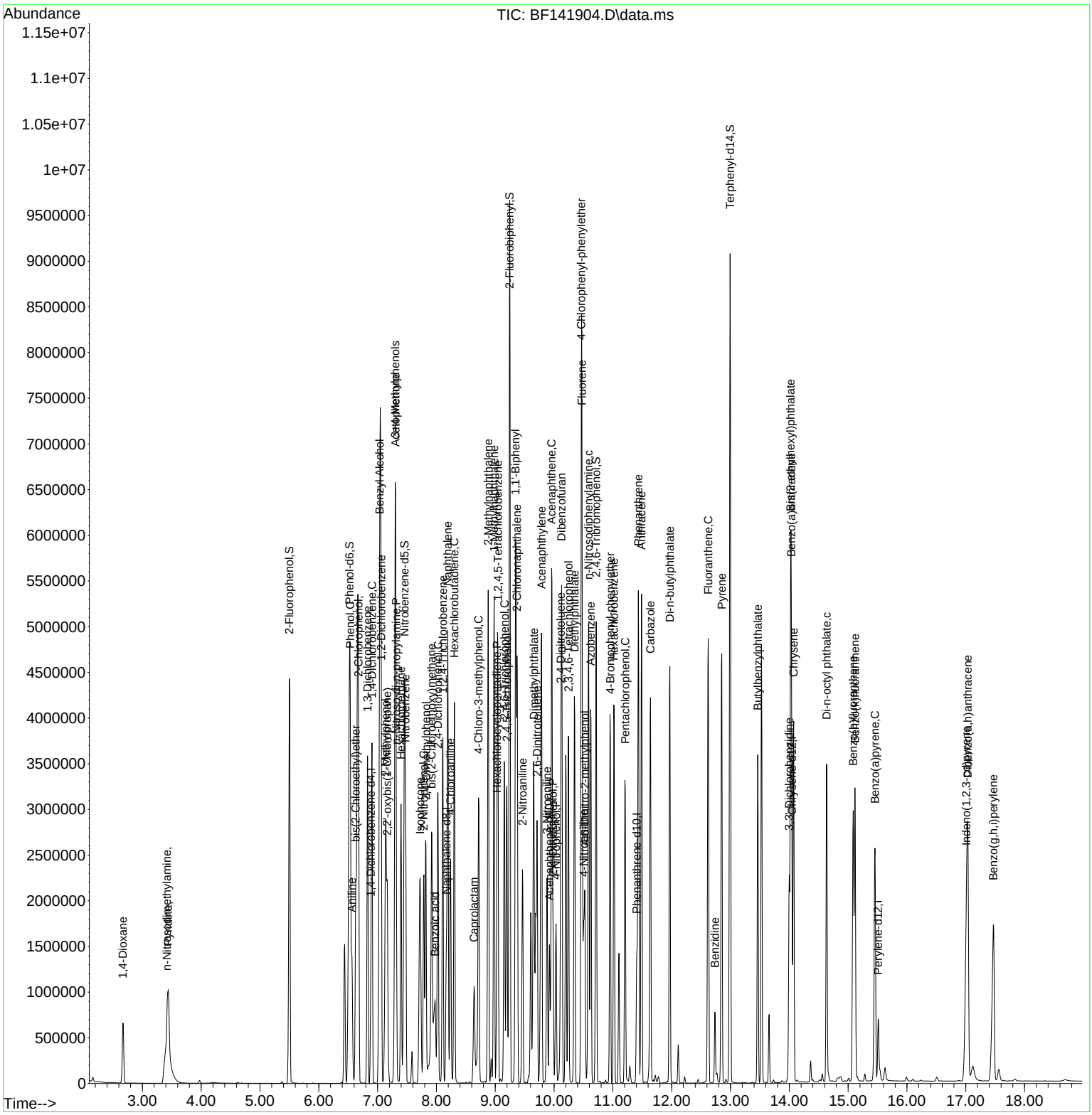
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141904.D
Acq On : 10 Mar 2025 14:27
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

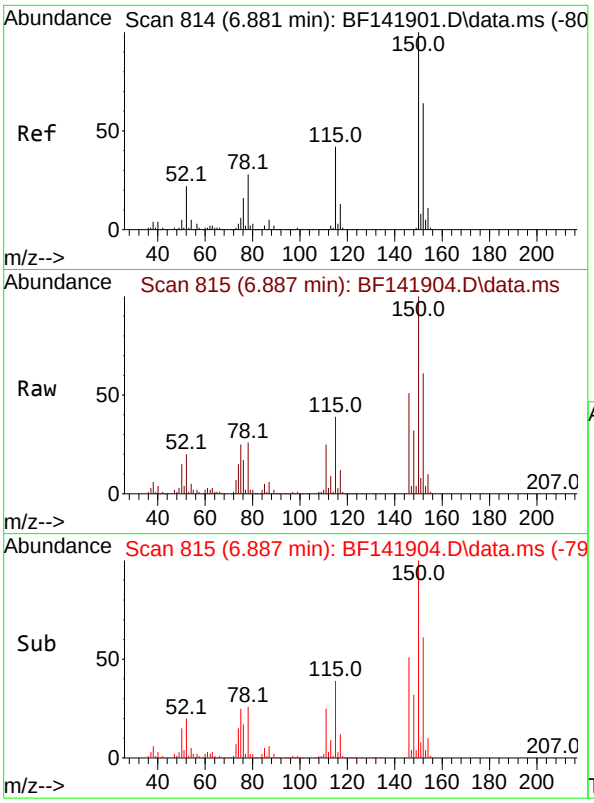
Quant Time: Mar 10 15:37:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

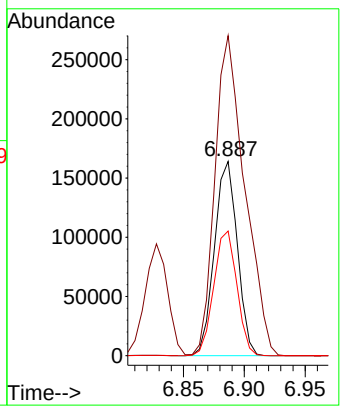




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:152 Resp: 21473

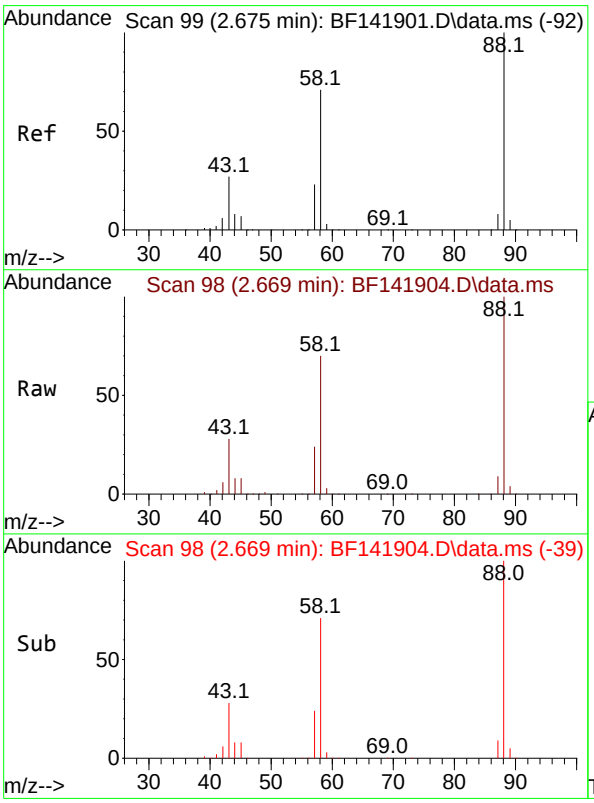
Ion	Ratio	Lower	Upper
152	100		
150	164.7	127.4	191.2
115	64.2	51.9	77.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

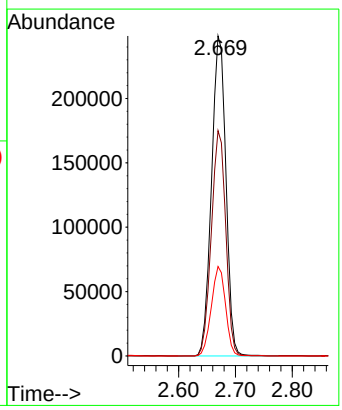
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

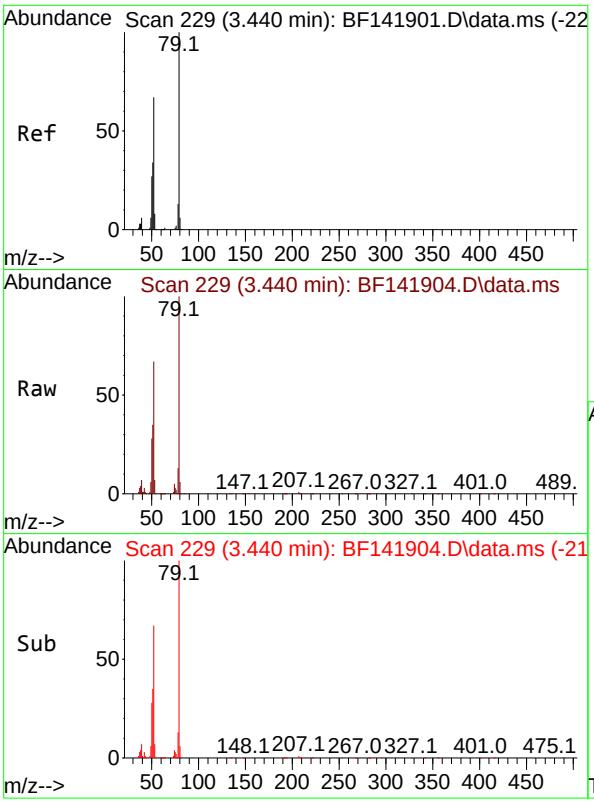


#2
1,4-Dioxane
Concen: 80.831 ng
RT: 2.669 min Scan# 98
Delta R.T. -0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 88 Resp: 436007

Ion	Ratio	Lower	Upper
88	100		
58	70.3	57.4	86.2
43	27.6	21.5	32.3

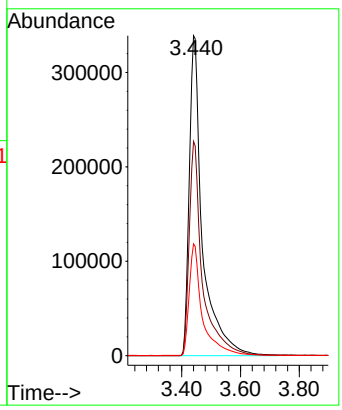




#3
Pyridine
Concen: 79.923 ng
RT: 3.440 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 79 Resp: 105947

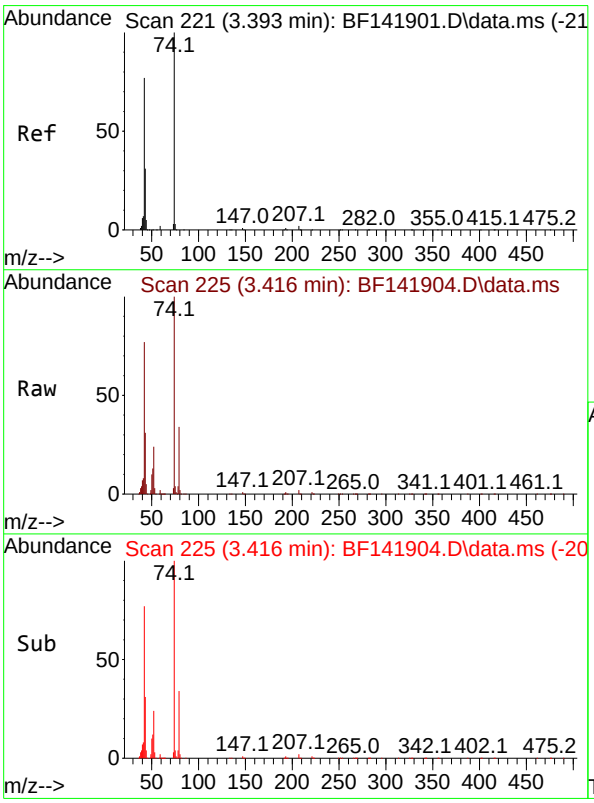
Ion	Ratio	Lower	Upper
79	100		
52	66.9	53.3	79.9
51	35.0	27.6	41.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

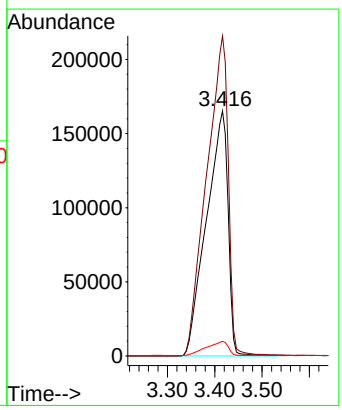
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

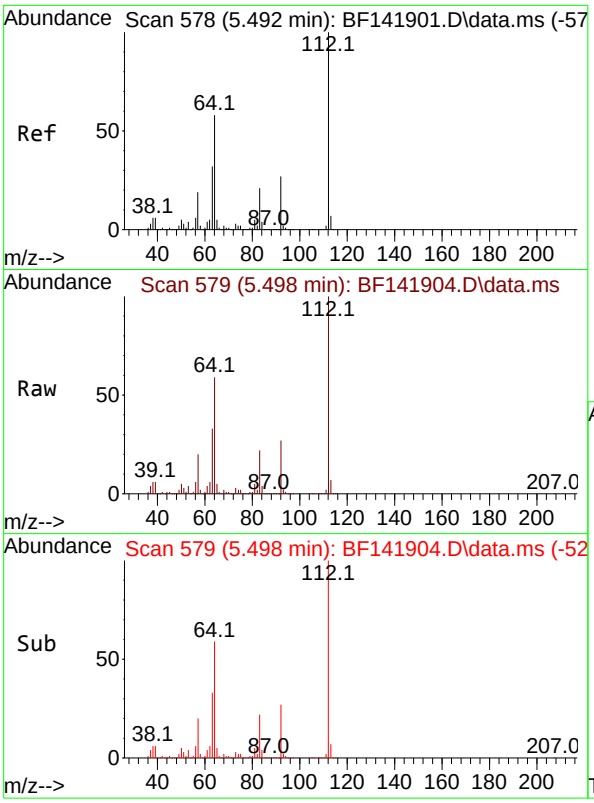


#4
n-Nitrosodimethylamine
Concen: 82.752 ng
RT: 3.416 min Scan# 225
Delta R.T. 0.024 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 42 Resp: 521442

Ion	Ratio	Lower	Upper
42	100		
74	130.6	103.4	155.0
44	6.0	5.0	7.4

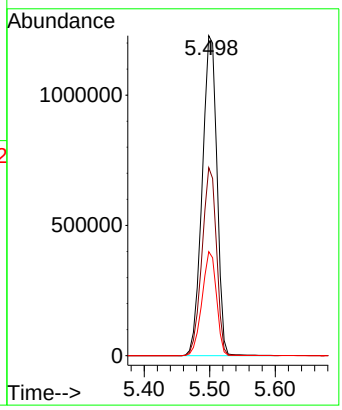




#5
2-Fluorophenol
Concen: 149.991 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:112 Resp: 193040

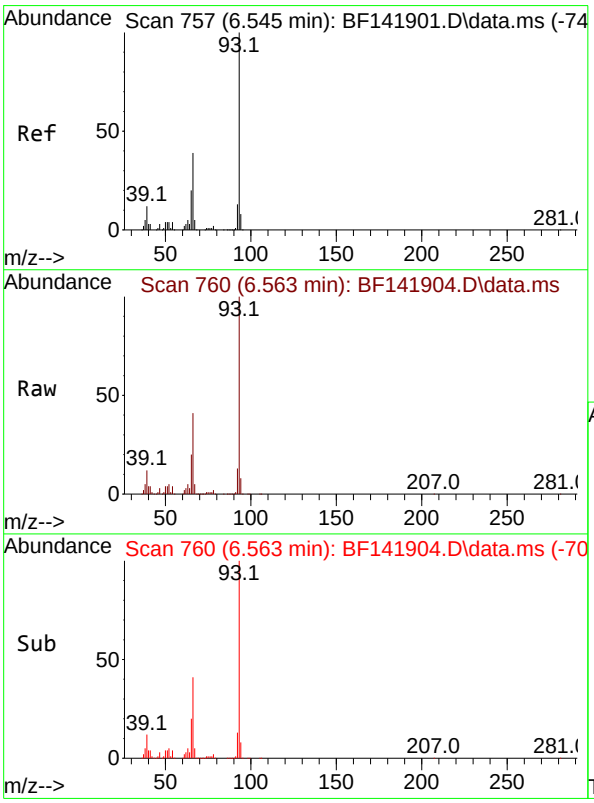
Ion	Ratio	Lower	Upper
112	100		
64	58.7	46.5	69.7
63	32.5	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

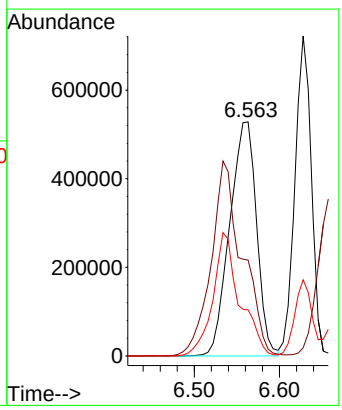
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

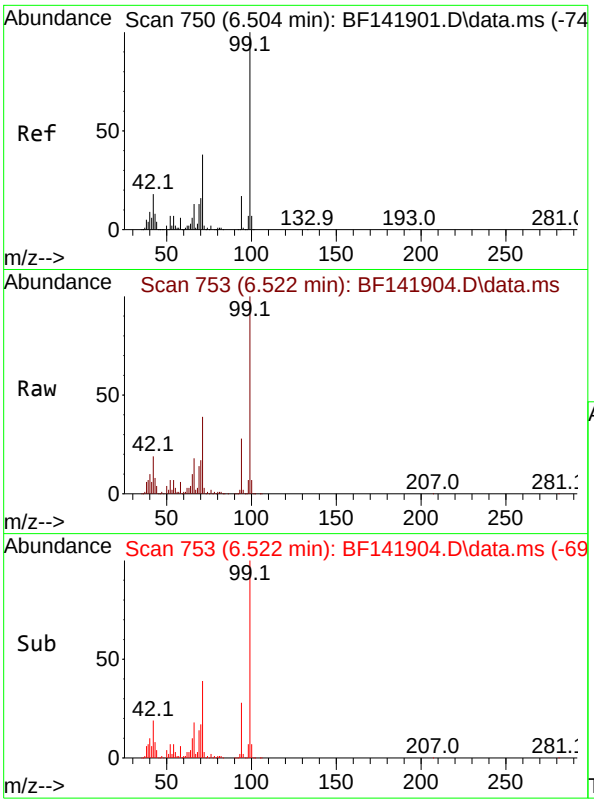


#6
Aniline
Concen: 71.712 ng
RT: 6.563 min Scan# 760
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 93 Resp: 1160437

Ion	Ratio	Lower	Upper
93	100		
66	40.9	31.9	47.9
65	19.7	15.8	23.6

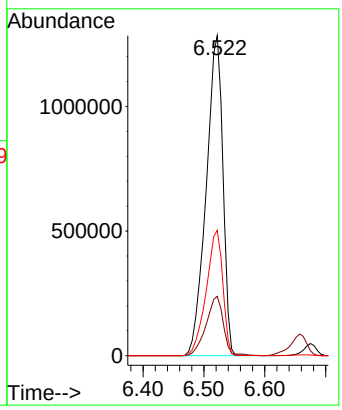




#7
Phenol-d6
Concen: 149.235 ng
RT: 6.522 min Scan# 7
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 99 Resp: 244618

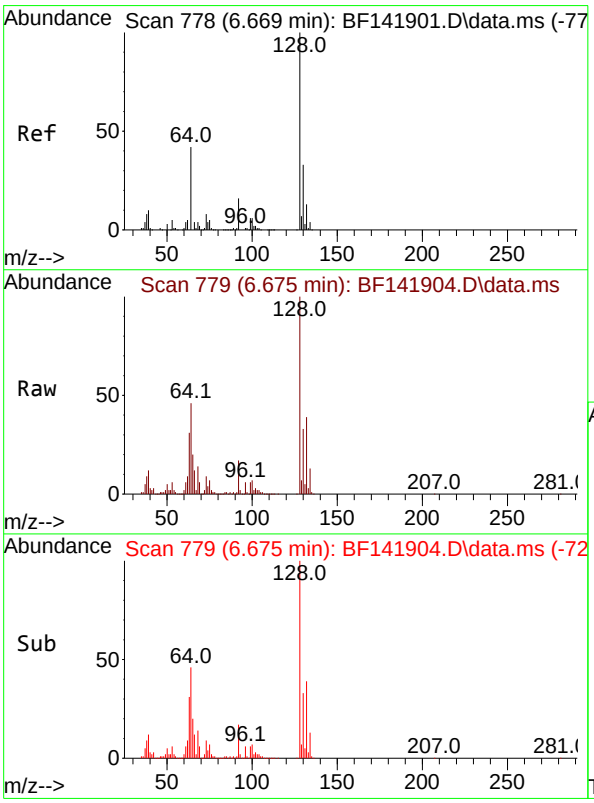
Ion	Ratio	Lower	Upper
99	100		
42	18.5	14.6	21.8
71	39.2	30.8	46.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

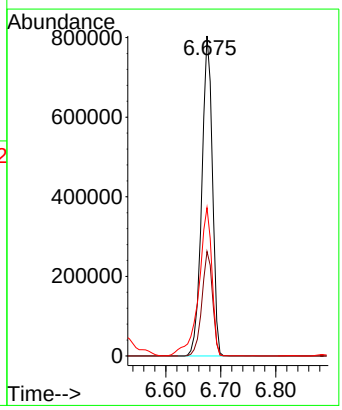
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

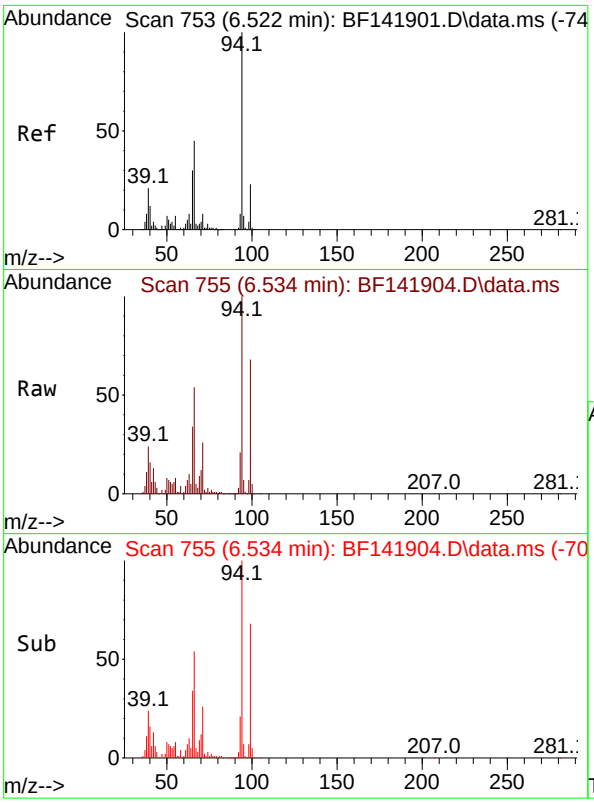


#8
2-Chlorophenol
Concen: 75.616 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:128 Resp: 1078659

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.8	52.8
64	46.4	24.4	64.4

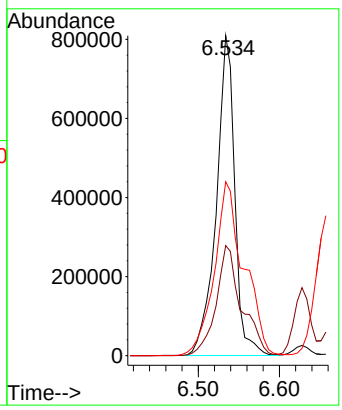




#10
Phenol
Concen: 74.308 ng
RT: 6.534 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 94 Resp: 128514

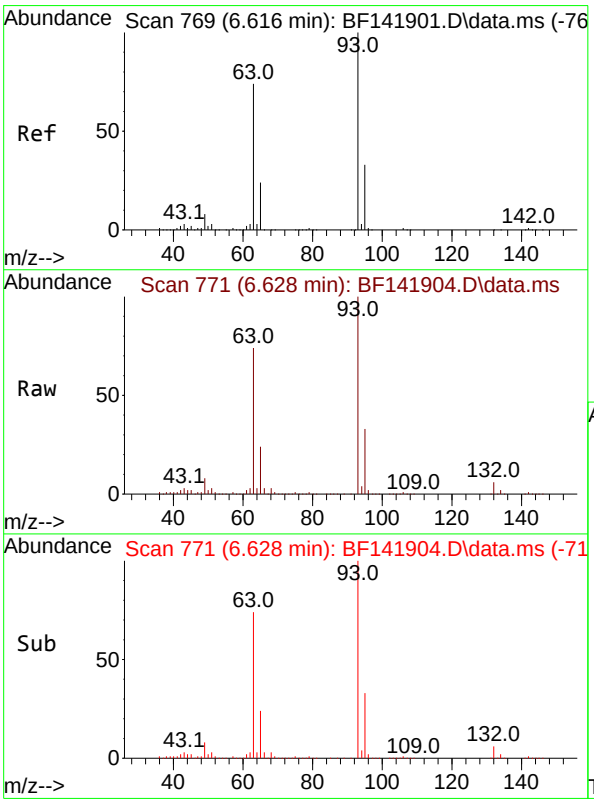
Ion	Ratio	Lower	Upper
94	100		
65	34.4	10.5	50.5
66	54.3	25.8	65.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

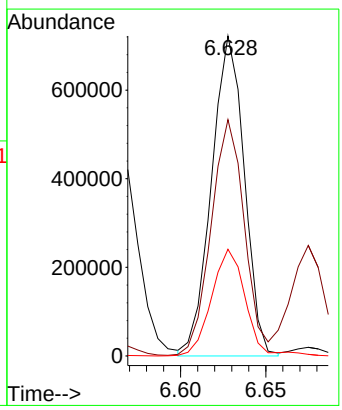
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

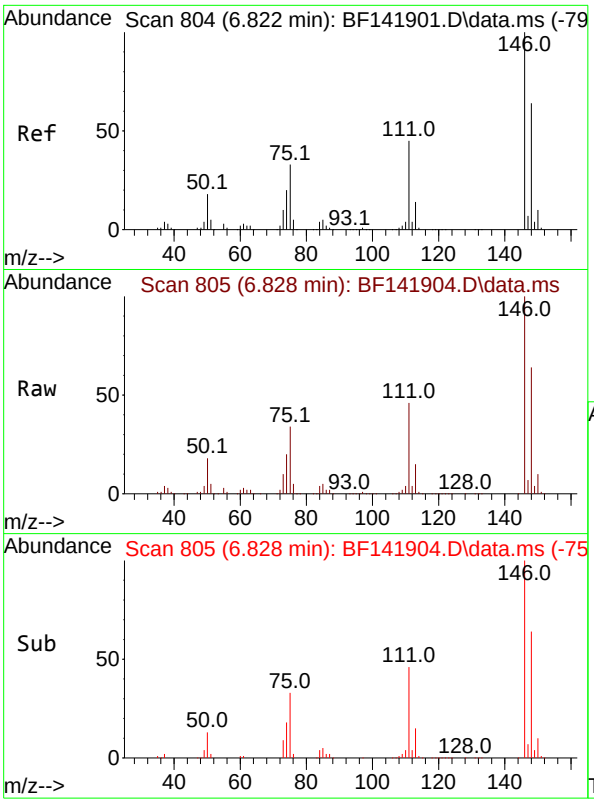


#11
bis(2-Chloroethyl)ether
Concen: 74.725 ng
RT: 6.628 min Scan# 771
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 93 Resp: 968280

Ion	Ratio	Lower	Upper
93	100		
63	73.9	53.0	93.0
95	33.4	12.9	52.9

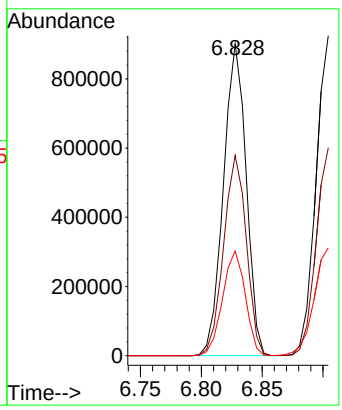




#12
1,3-Dichlorobenzene
Concen: 76.153 ng
RT: 6.828 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:146 Resp: 117392

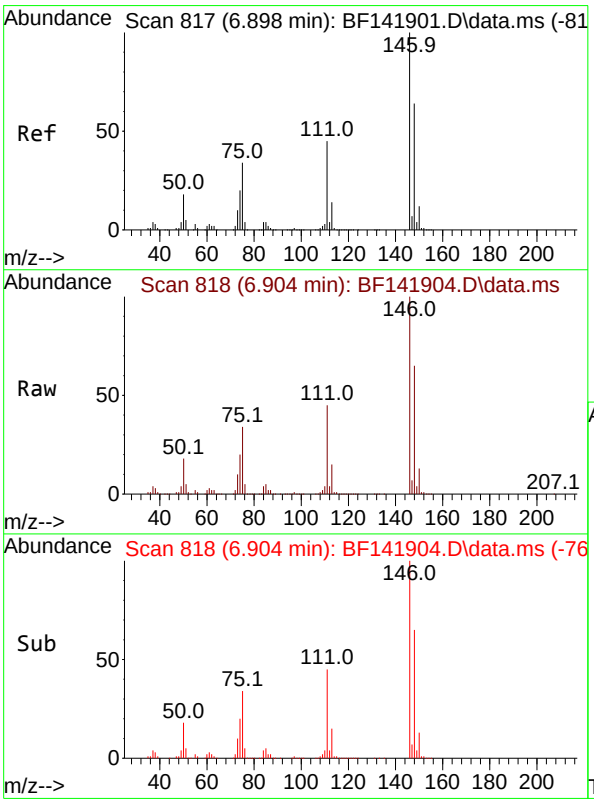
Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.3	76.9
75	33.6	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

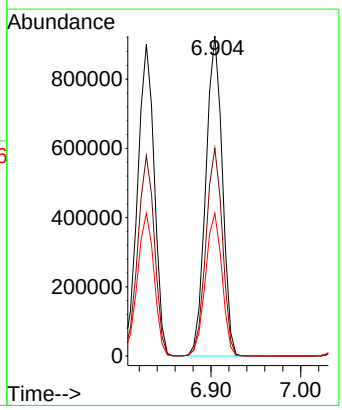
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

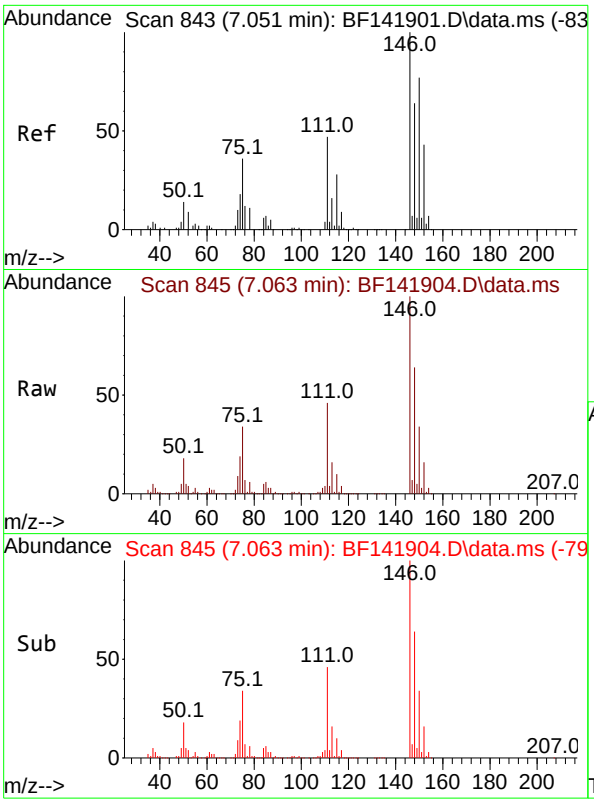


#13
1,4-Dichlorobenzene
Concen: 75.784 ng
RT: 6.904 min Scan# 818
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:146 Resp: 1181975

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.0	76.6
111	44.6	35.7	53.5

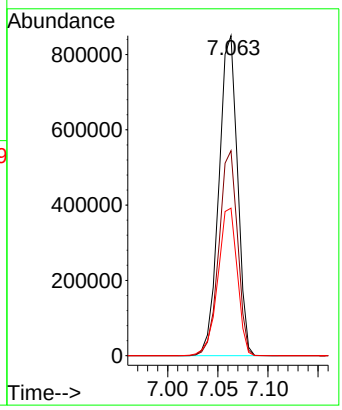




#14
1,2-Dichlorobenzene
Concen: 74.440 ng
RT: 7.063 min Scan# 84
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:146 Resp: 109331

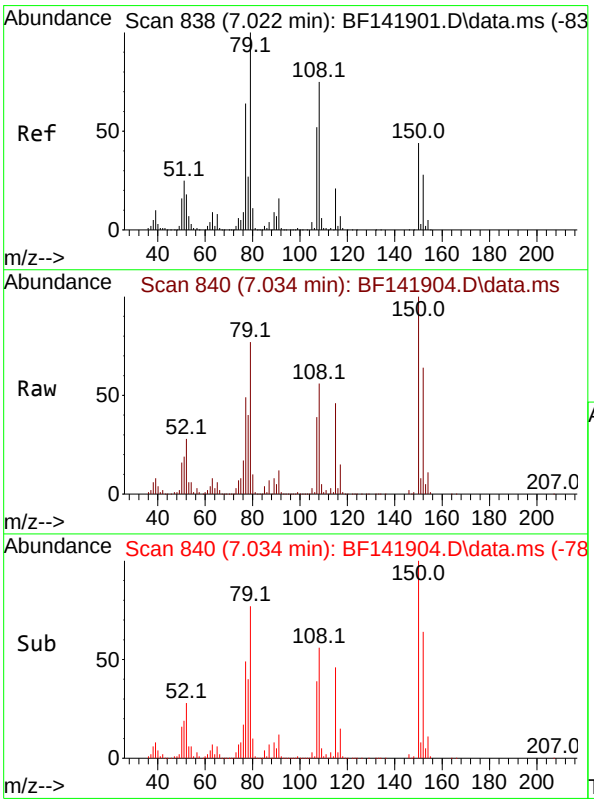
Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.8	76.2
111	46.1	38.0	57.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

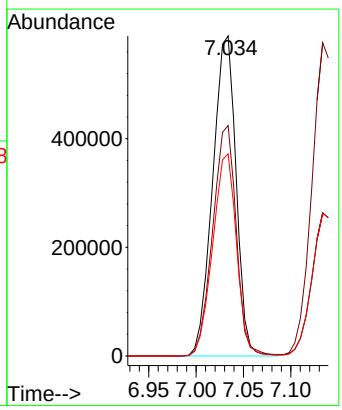
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

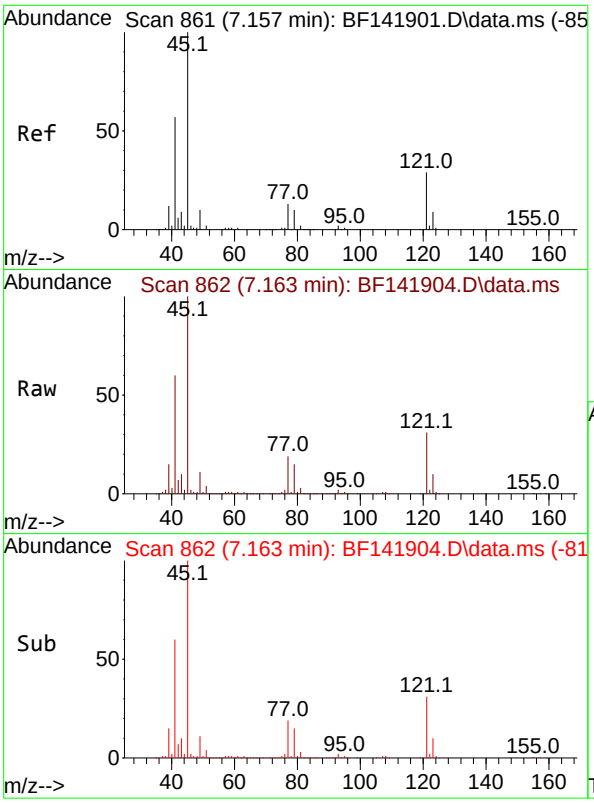


#15
Benzyl Alcohol
Concen: 76.376 ng
RT: 7.034 min Scan# 840
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 79 Resp: 1013314

Ion	Ratio	Lower	Upper
79	100		
108	72.0	59.7	89.5
77	63.1	51.0	76.6





#16
2,2'-oxybis(1-Chloropropane)
Concen: 72.198 ng
RT: 7.163 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

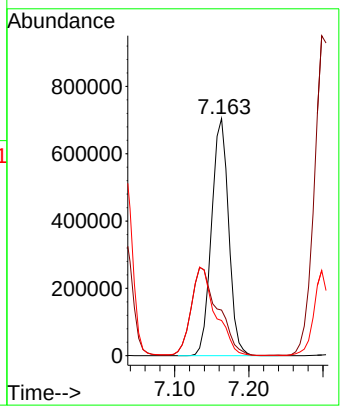
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

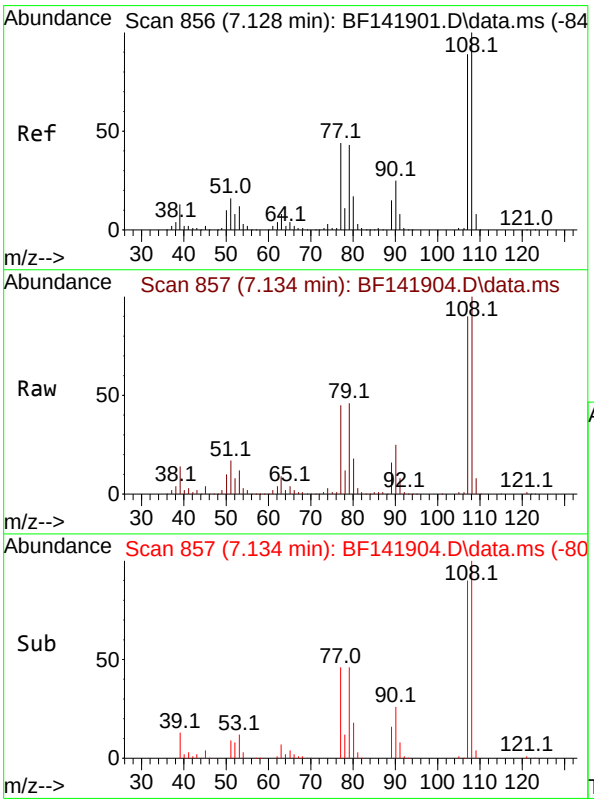
Tgt Ion: 45 Resp: 112753

Ion	Ratio	Lower	Upper
45	100		
77	19.3	0.0	37.8
79	14.8	0.0	34.2

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

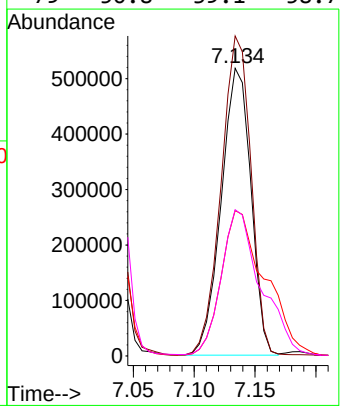


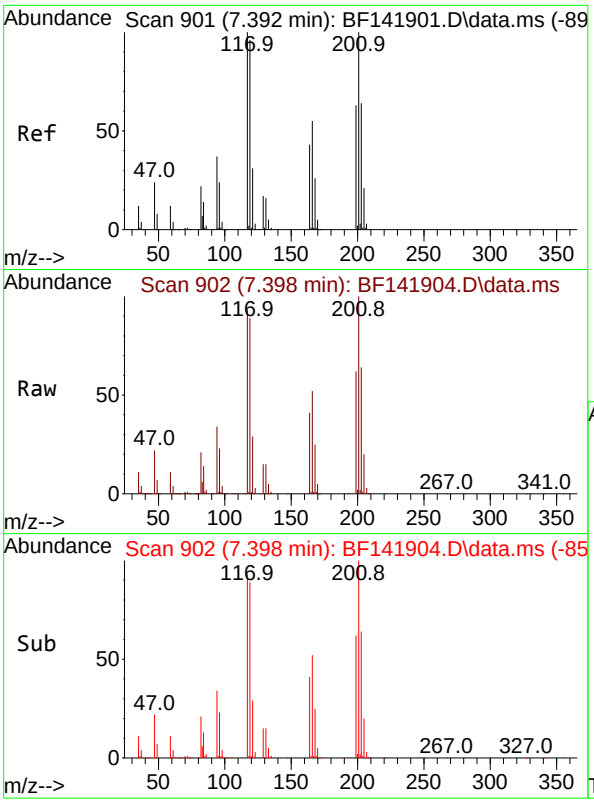


#17
2-Methylphenol
Concen: 77.326 ng
RT: 7.134 min Scan# 857
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:107 Resp: 876665

Ion	Ratio	Lower	Upper
107	100		
108	111.3	90.2	135.2
77	50.5	39.6	59.4
79	50.8	39.1	58.7

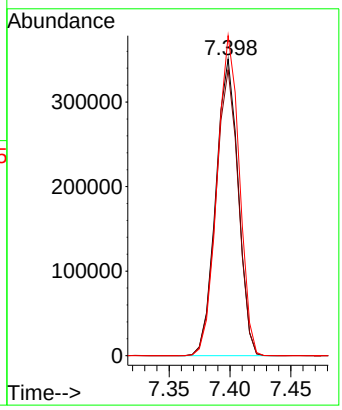




#18
Hexachloroethane
Concen: 76.745 ng
RT: 7.398 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:117 Resp: 44876

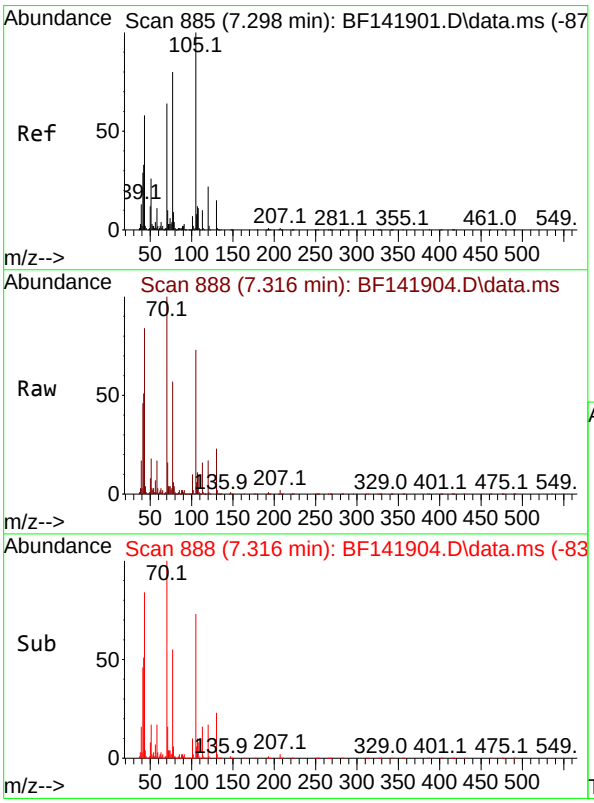
Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.9	115.3
201	107.9	79.9	119.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

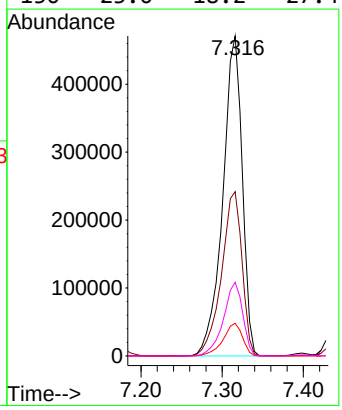
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

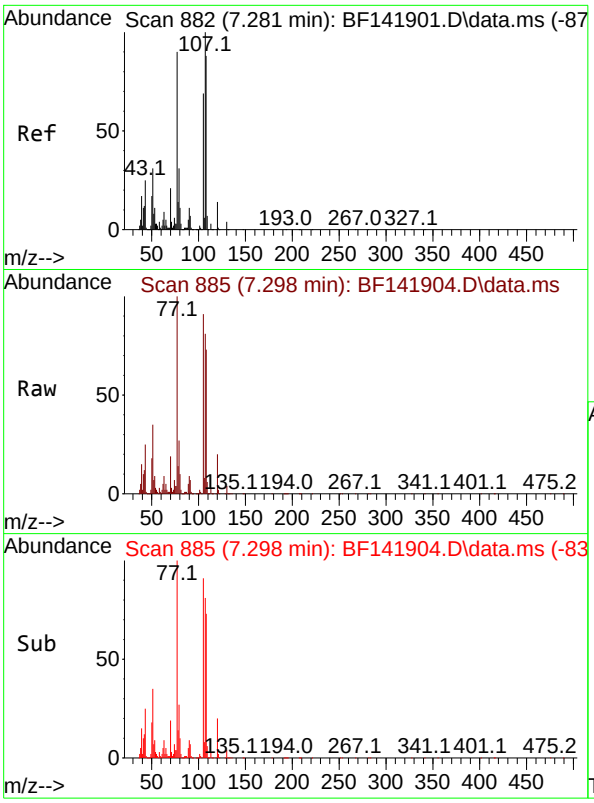


#19
n-Nitroso-di-n-propylamine
Concen: 74.351 ng
RT: 7.316 min Scan# 888
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 70 Resp: 783318

Ion	Ratio	Lower	Upper
70	100		
42	51.4	41.4	62.0
101	10.2	8.2	12.2
130	23.0	18.2	27.4

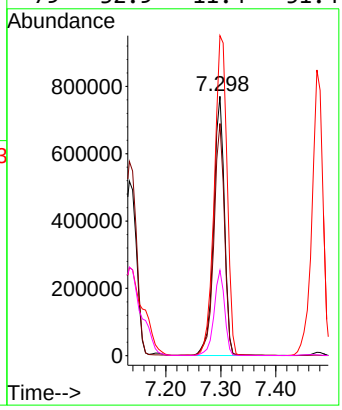




#20
3+4-Methylphenols
Concen: 72.219 ng
RT: 7.298 min Scan# 8
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:107 Resp: 105019

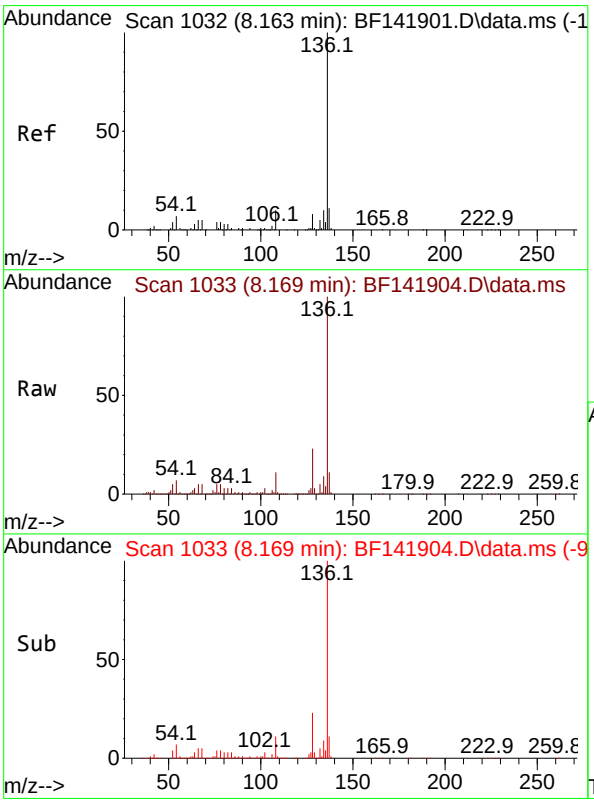
Ion	Ratio	Lower	Upper
107	100		
108	89.5	68.4	108.4
77	123.4	69.7	109.7#
79	32.9	11.4	51.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

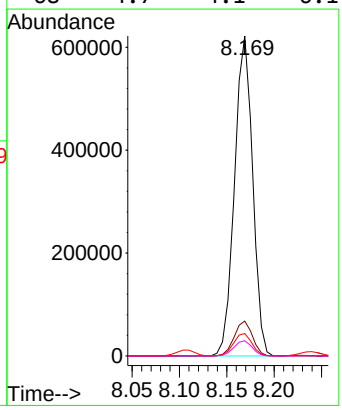
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

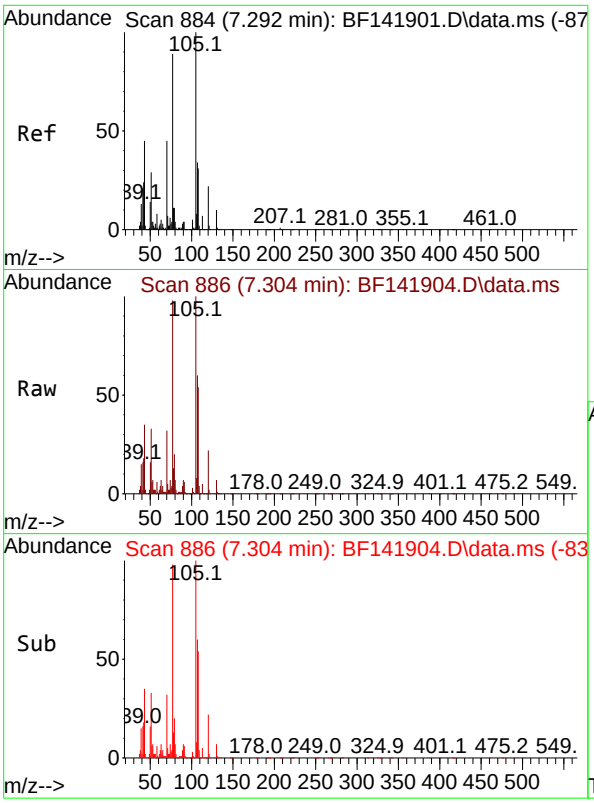


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:136 Resp: 826030

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.0	5.8	8.8
68	4.7	4.1	6.1

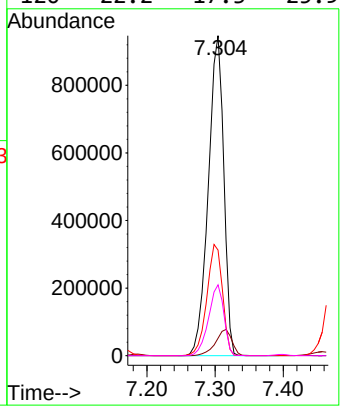




#22
Acetophenone
Concen: 75.498 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:105 Resp: 149603

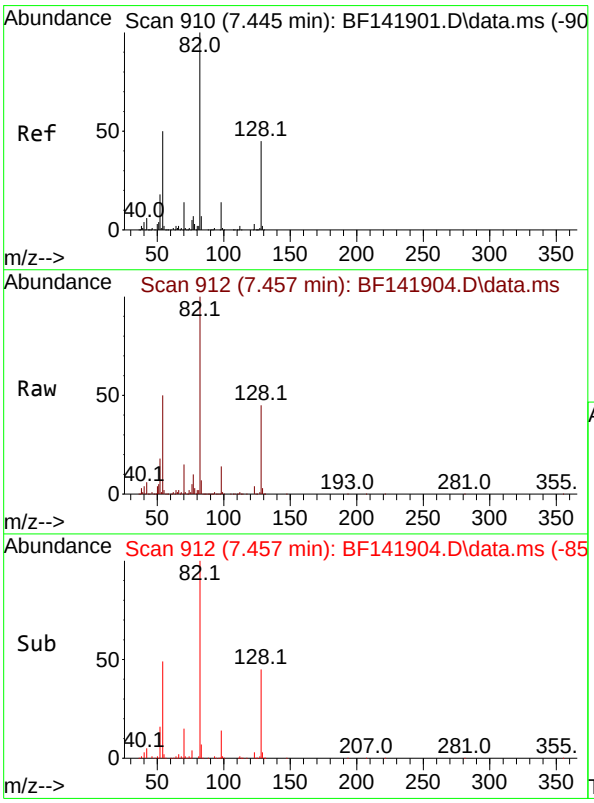
Ion	Ratio	Lower	Upper
105	100		
71	5.4	5.8	8.8
51	33.0	23.4	35.0
120	22.2	17.3	25.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

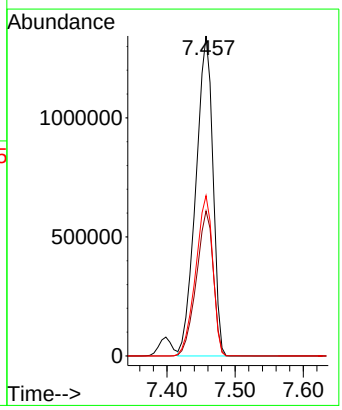
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

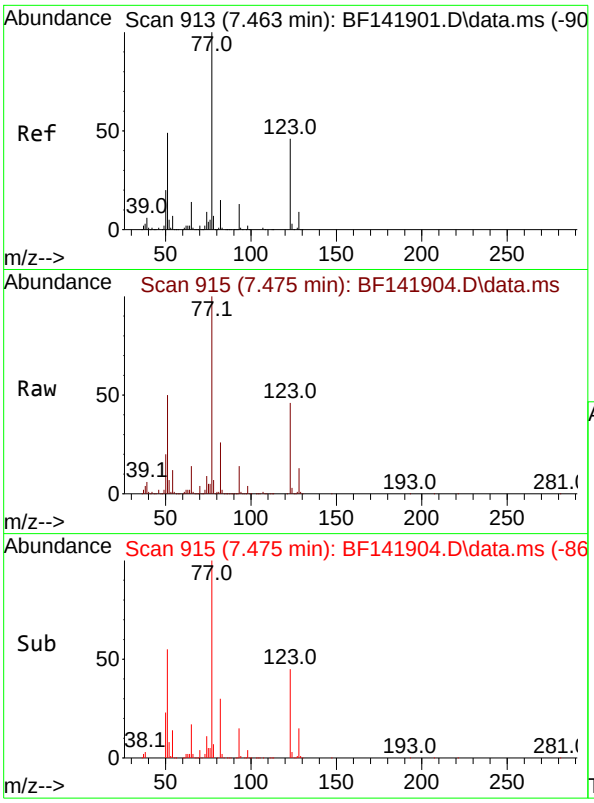


#23
Nitrobenzene-d5
Concen: 158.463 ng
RT: 7.457 min Scan# 912
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 82 Resp: 2335417

Ion	Ratio	Lower	Upper
82	100		
128	45.3	36.0	54.0
54	50.1	39.6	59.4

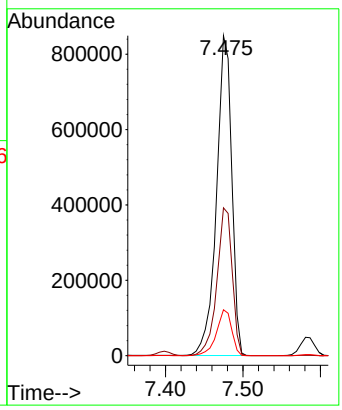




#24
Nitrobenzene
Concen: 79.572 ng
RT: 7.475 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 77 Resp: 116275

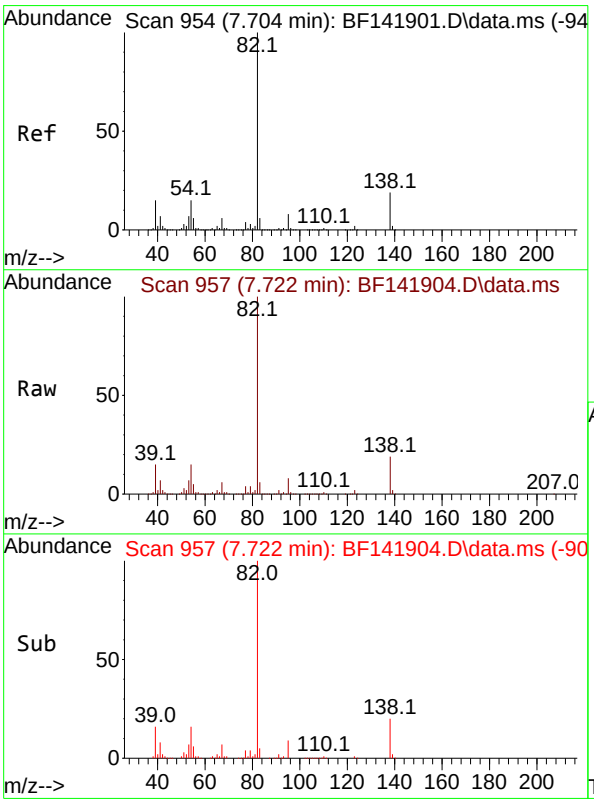
Ion	Ratio	Lower	Upper
77	100		
123	46.2	37.0	55.4
65	14.4	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

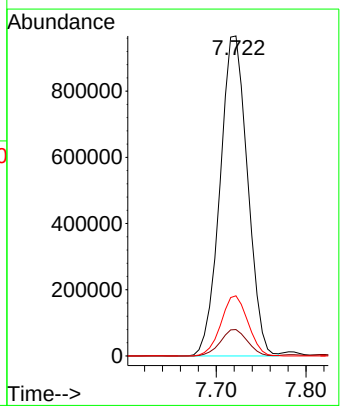
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

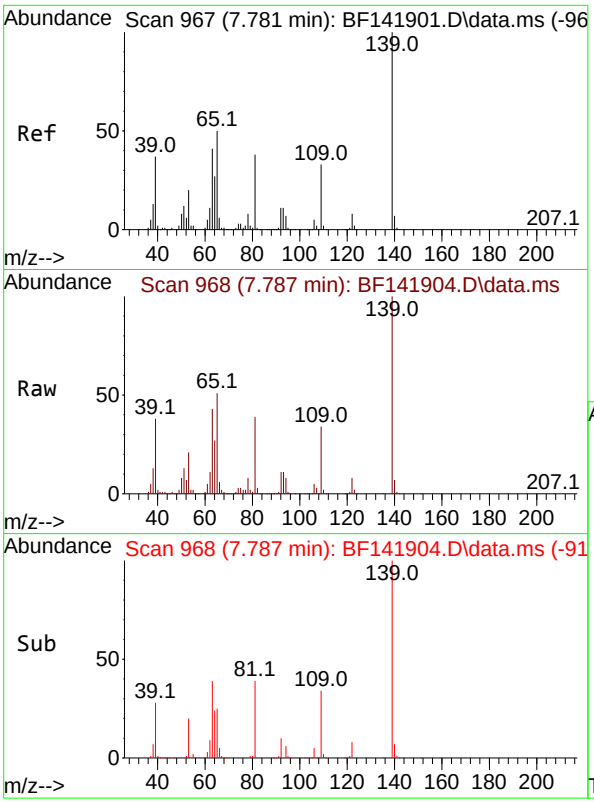


#25
Isophorone
Concen: 79.032 ng
RT: 7.722 min Scan# 957
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 82 Resp: 2056405

Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.4	9.6
138	18.8	14.9	22.3

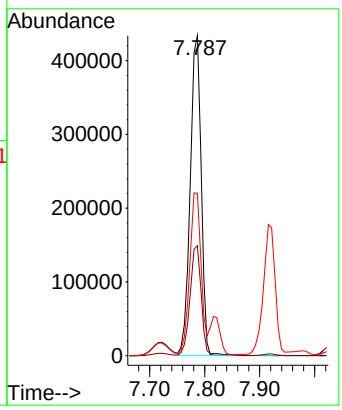




#26
2-Nitrophenol
Concen: 83.688 ng
RT: 7.787 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:139 Resp: 59926

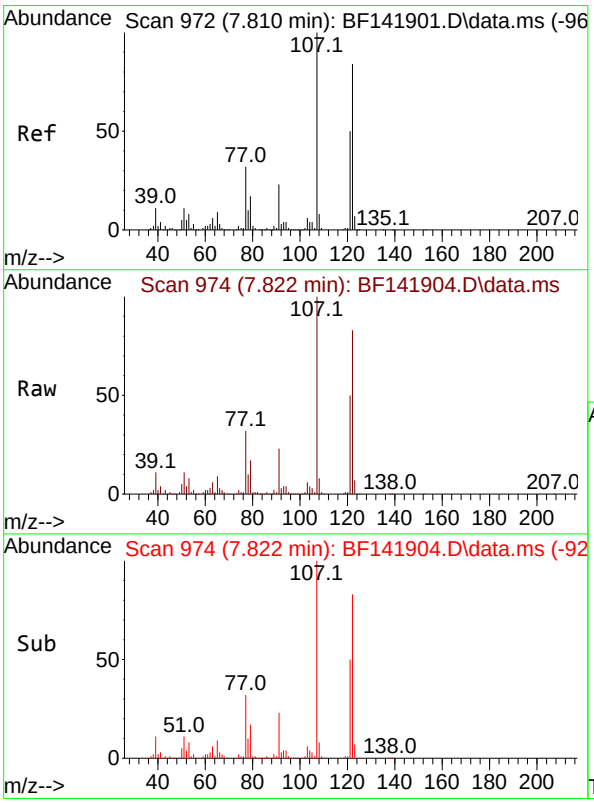
Ion	Ratio	Lower	Upper
139	100		
109	34.4	26.5	39.7
65	50.8	40.3	60.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

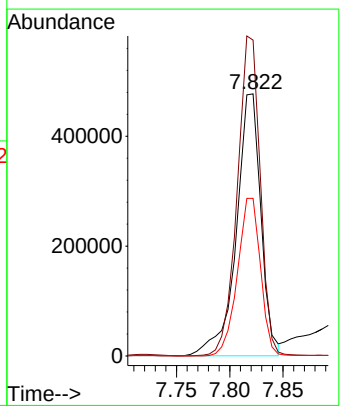
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

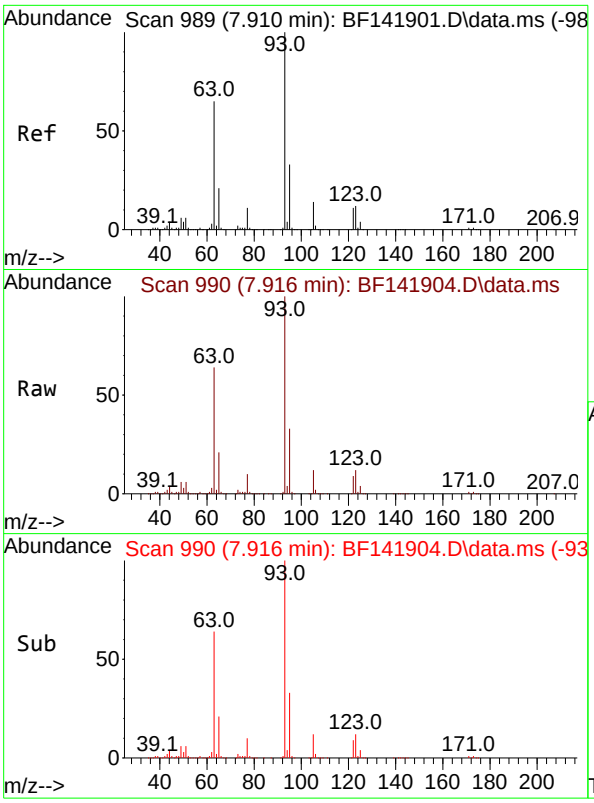


#27
2,4-Dimethylphenol
Concen: 77.821 ng
RT: 7.822 min Scan# 974
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:122 Resp: 767514

Ion	Ratio	Lower	Upper
122	100		
107	120.5	94.8	142.2
121	60.1	47.8	71.6

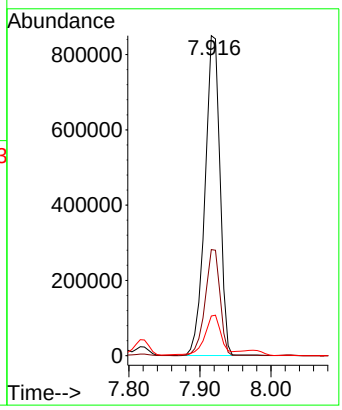




#28
bis(2-Chloroethoxy)methane
Concen: 76.598 ng
RT: 7.916 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 93 Resp: 124854

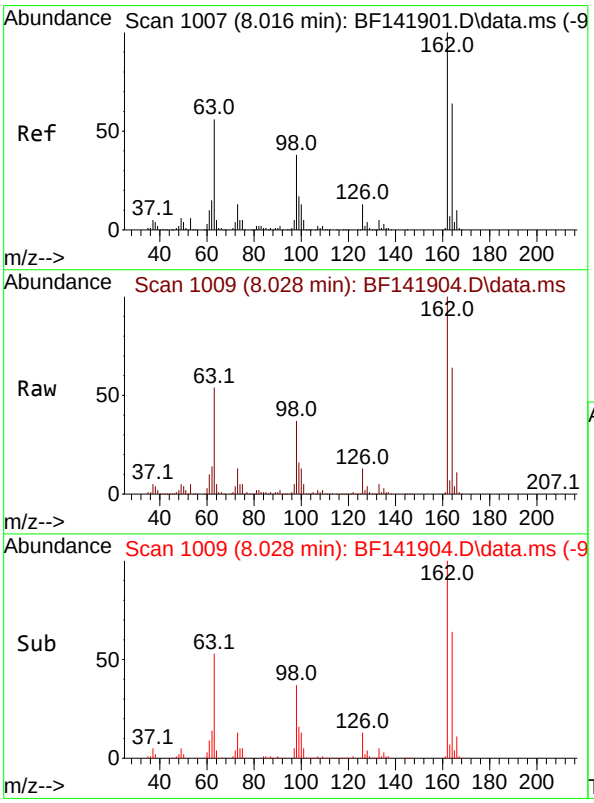
Ion	Ratio	Lower	Upper
93	100		
95	33.2	26.6	40.0
123	12.4	10.2	15.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

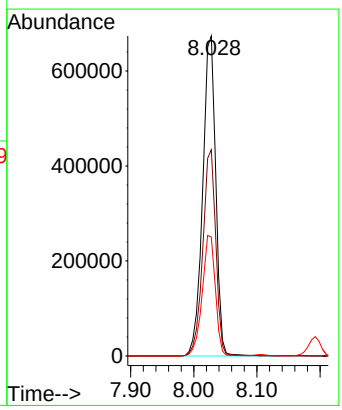
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

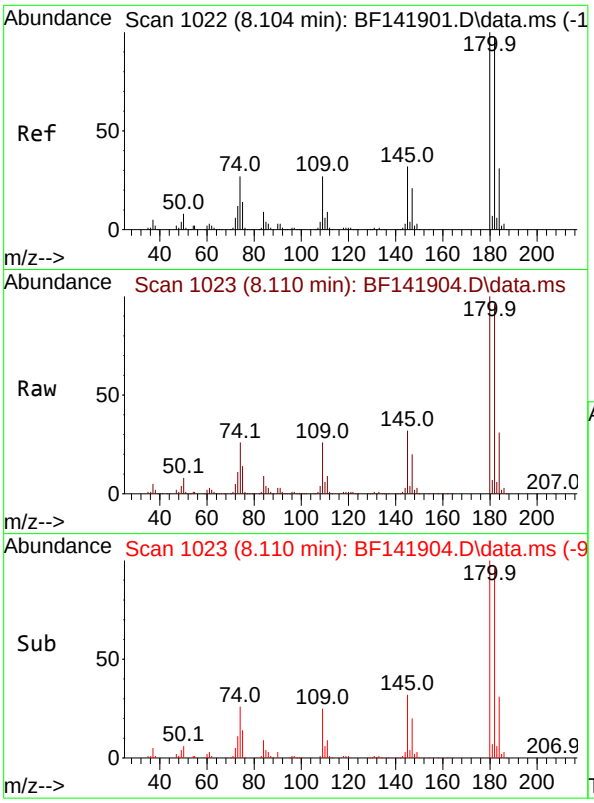


#29
2,4-Dichlorophenol
Concen: 79.403 ng
RT: 8.028 min Scan# 1009
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:162 Resp: 971886

Ion	Ratio	Lower	Upper
162	100		
164	64.4	43.8	83.8
98	37.1	18.1	58.1

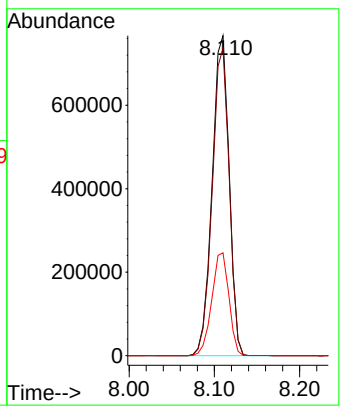




#30
1,2,4-Trichlorobenzene
Concen: 78.705 ng
RT: 8.110 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:180 Resp: 106279

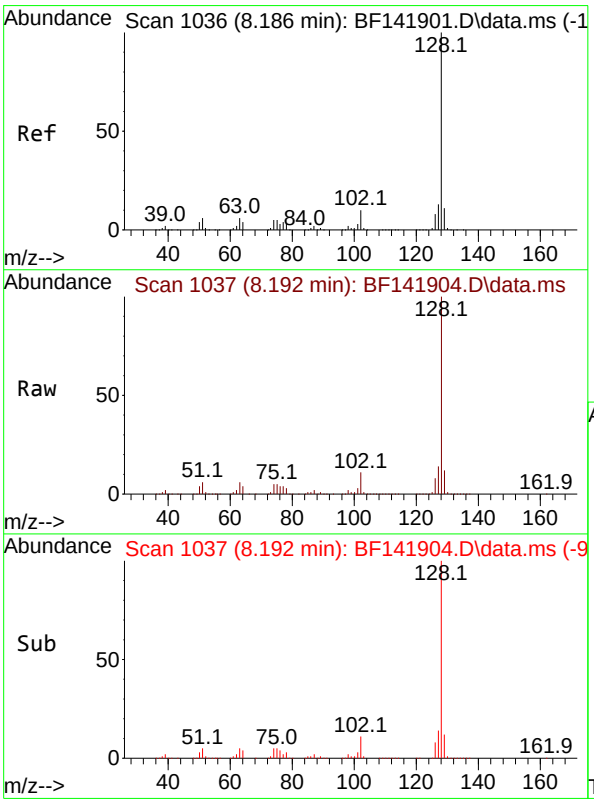
Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.5	116.3
145	32.2	25.8	38.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

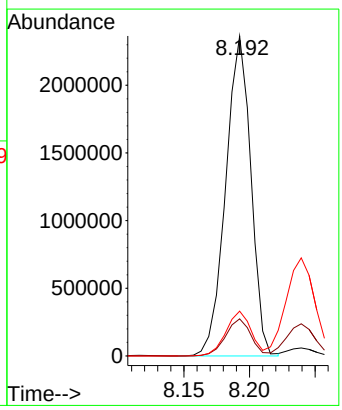
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

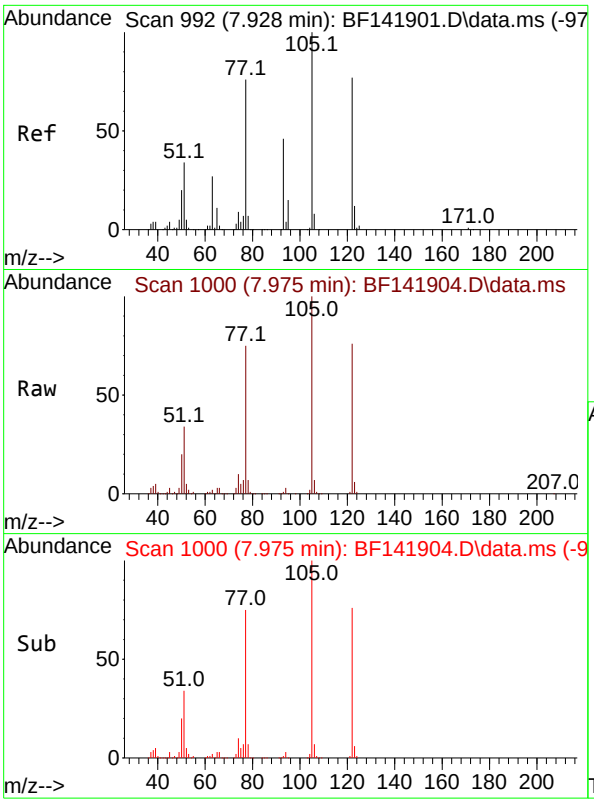


#31
Naphthalene
Concen: 74.497 ng
RT: 8.192 min Scan# 1037
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:128 Resp: 3152444

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.0	13.6
127	14.0	10.8	16.2

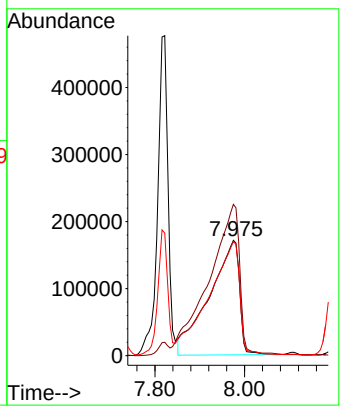




#32
Benzoic acid
Concen: 92.323 ng
RT: 7.975 min Scan# 1
Delta R.T. 0.047 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:122 Resp: 79585

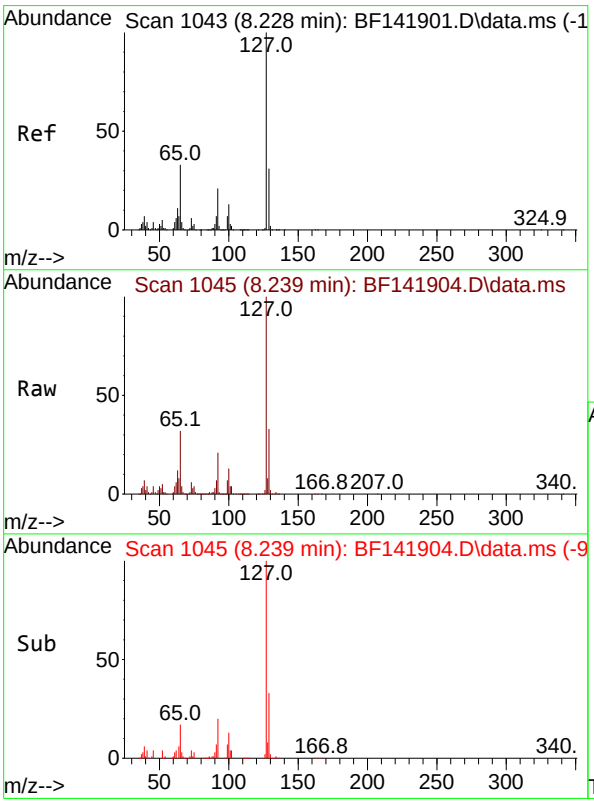
Ion	Ratio	Lower	Upper
122	100		
105	131.3	107.9	147.9
77	98.9	79.0	119.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

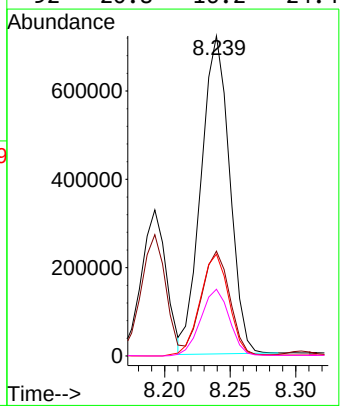
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

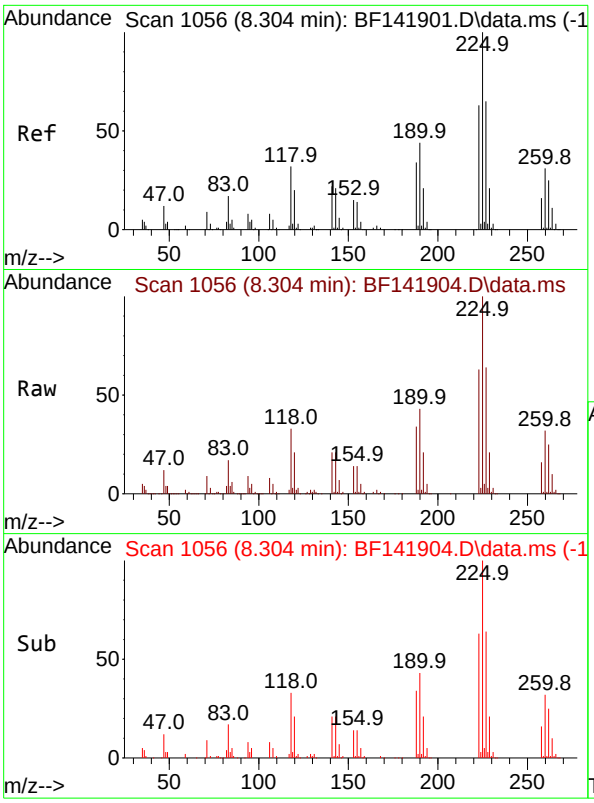


#33
4-Chloroaniline
Concen: 72.896 ng
RT: 8.239 min Scan# 1045
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:127 Resp: 1088546

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.2	39.4
65	31.8	25.4	38.2
92	20.8	16.2	24.4

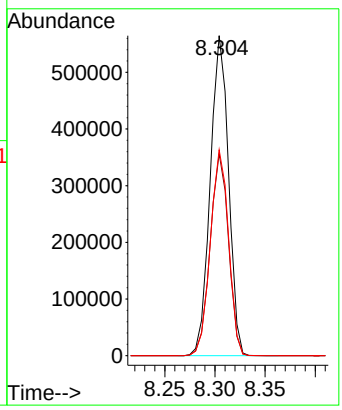




#34
Hexachlorobutadiene
Concen: 81.299 ng
RT: 8.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:225 Resp: 71382

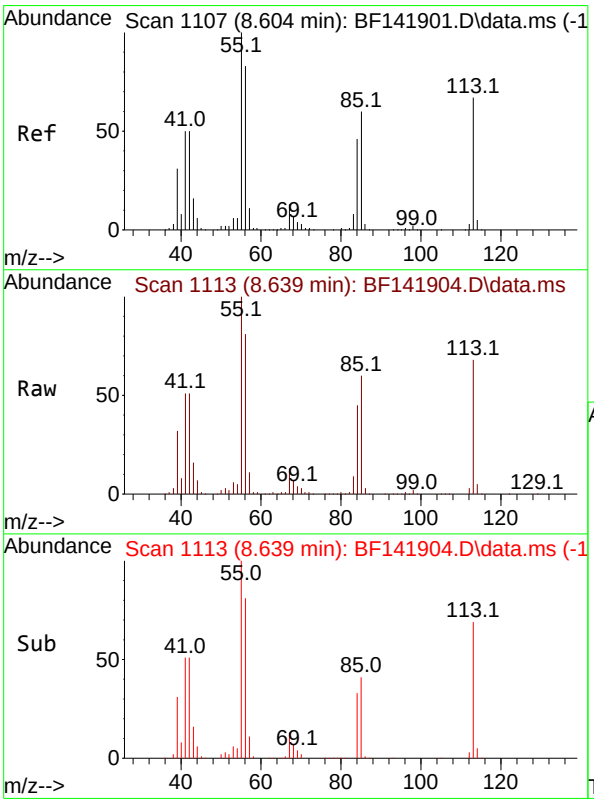
Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.6	75.8
227	64.3	52.2	78.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

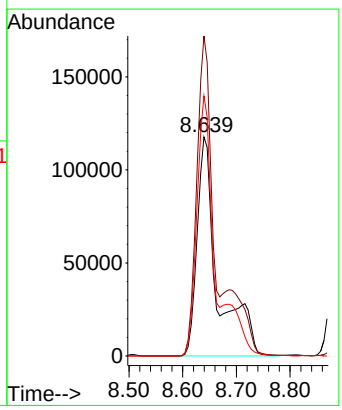
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

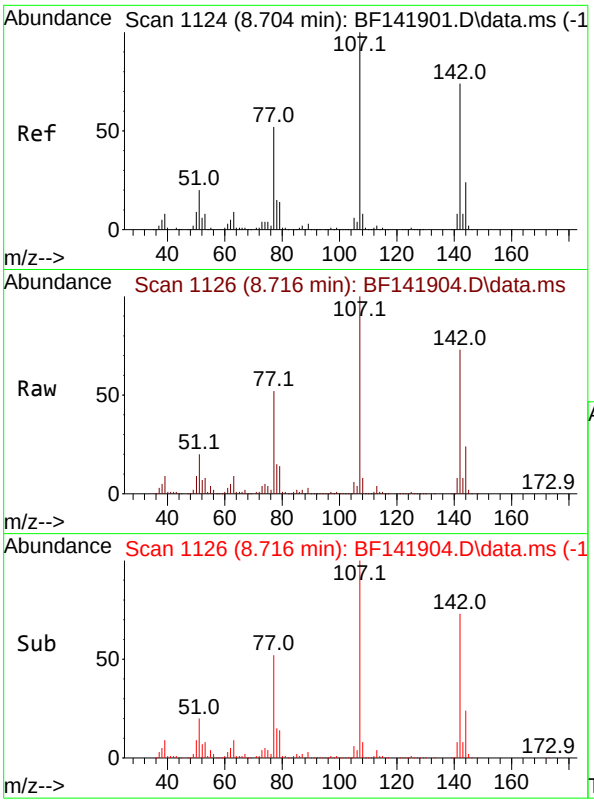


#35
Caprolactam
Concen: 83.763 ng m
RT: 8.639 min Scan# 1113
Delta R.T. 0.035 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:113 Resp: 311758

Ion	Ratio	Lower	Upper
113	100		
55	146.1	129.6	169.6
56	118.7	104.0	144.0

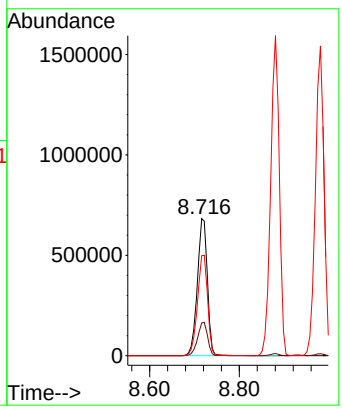




#36
4-Chloro-3-methylphenol
Concen: 77.644 ng
RT: 8.716 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:107 Resp: 105691

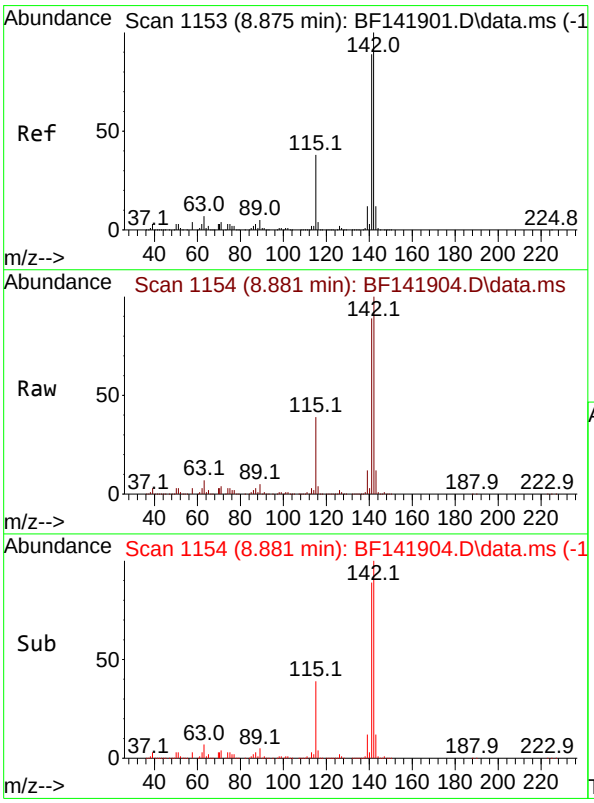
Ion	Ratio	Lower	Upper
107	100		
144	24.0	19.0	28.6
142	72.9	59.2	88.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

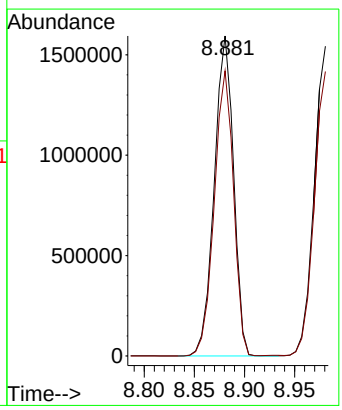
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

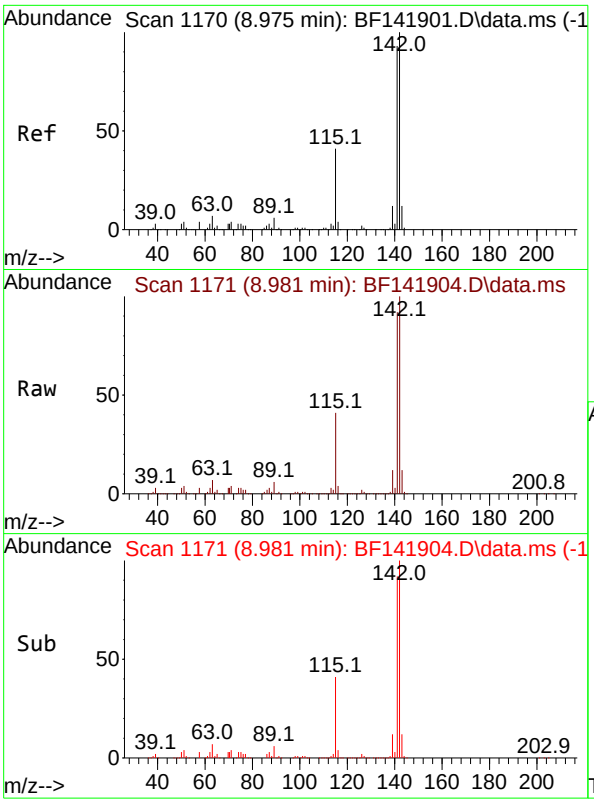


#37
2-Methylnaphthalene
Concen: 75.023 ng
RT: 8.881 min Scan# 1154
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:142 Resp: 2129990

Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.2	106.8

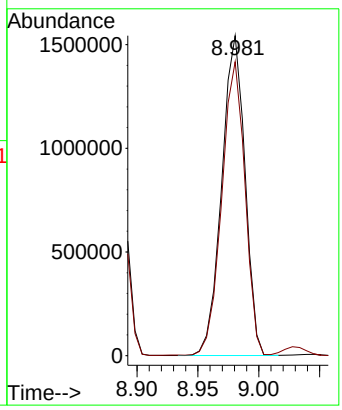




#38
1-Methylnaphthalene
Concen: 74.568 ng
RT: 8.981 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:142 Resp: 205019

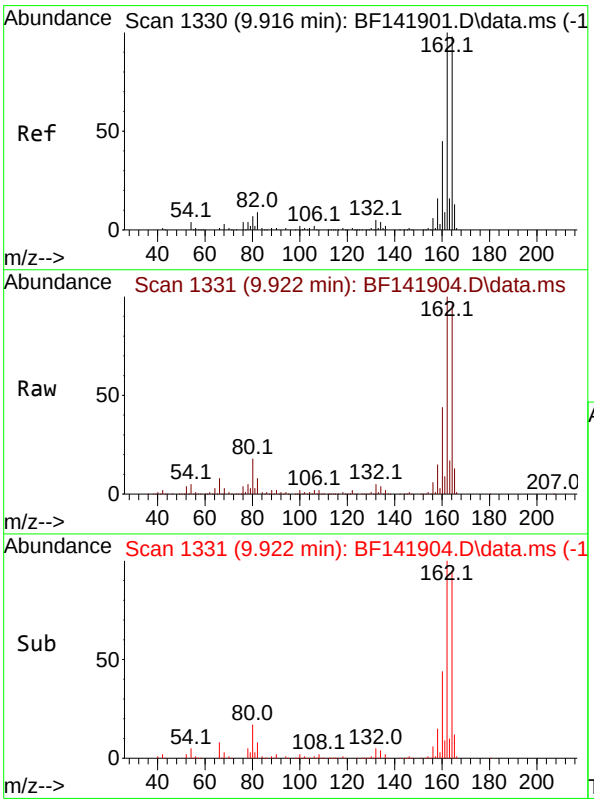
Ion	Ratio	Lower	Upper
142	100		
141	91.8	74.2	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

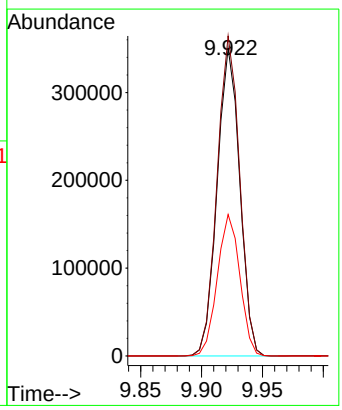
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

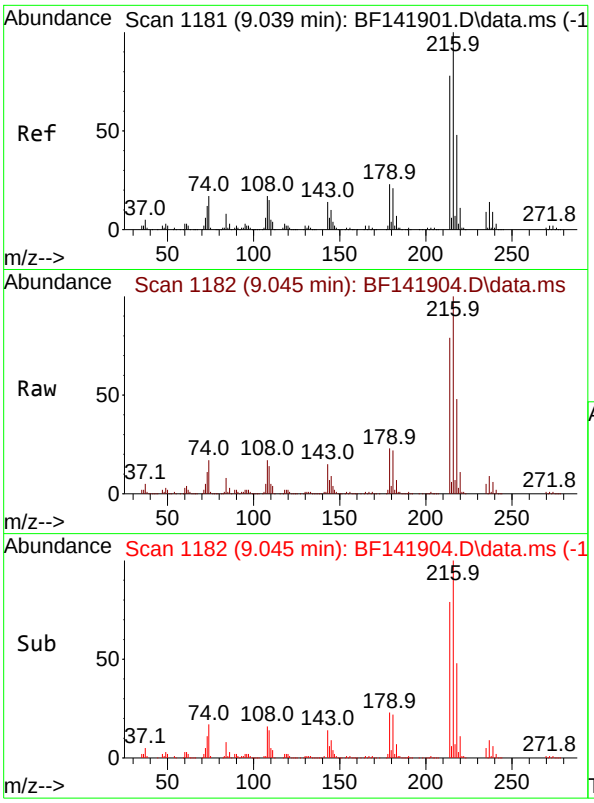


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:164 Resp: 452864

Ion	Ratio	Lower	Upper
164	100		
162	103.9	81.8	122.6
160	45.9	36.7	55.1

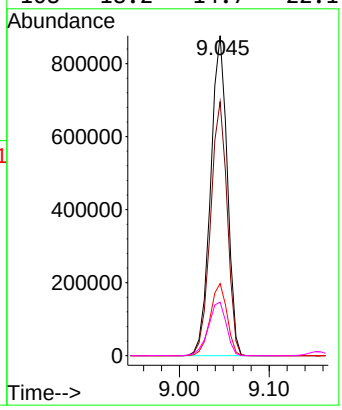




#40
1,2,4,5-Tetrachlorobenzene
Concen: 81.667 ng
RT: 9.045 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:216 Resp: 112767

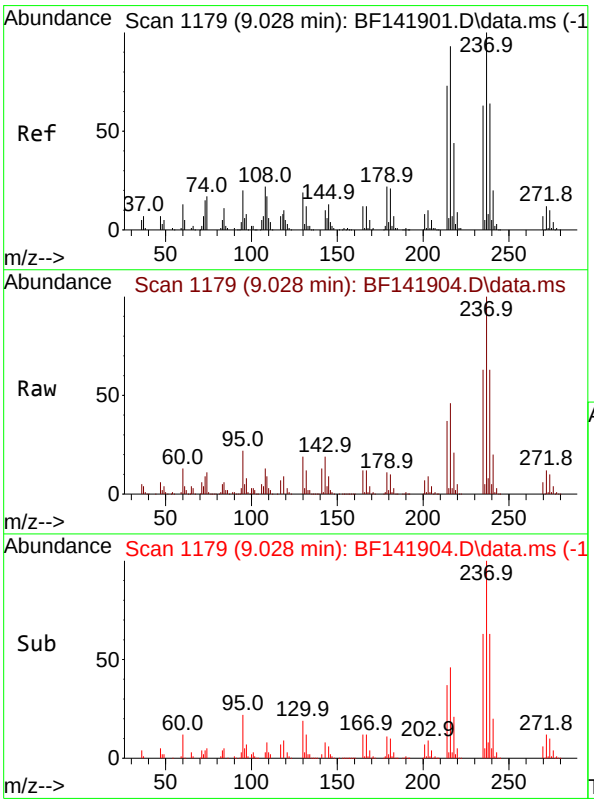
Ion	Ratio	Lower	Upper
216	100		
214	79.3	61.9	92.9
179	22.7	18.1	27.1
108	18.2	14.7	22.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

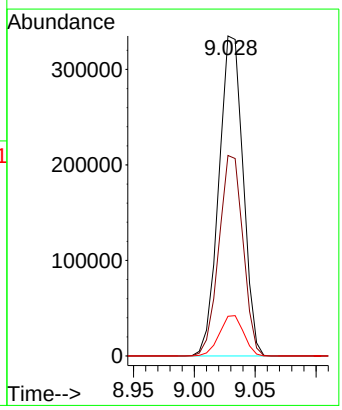
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

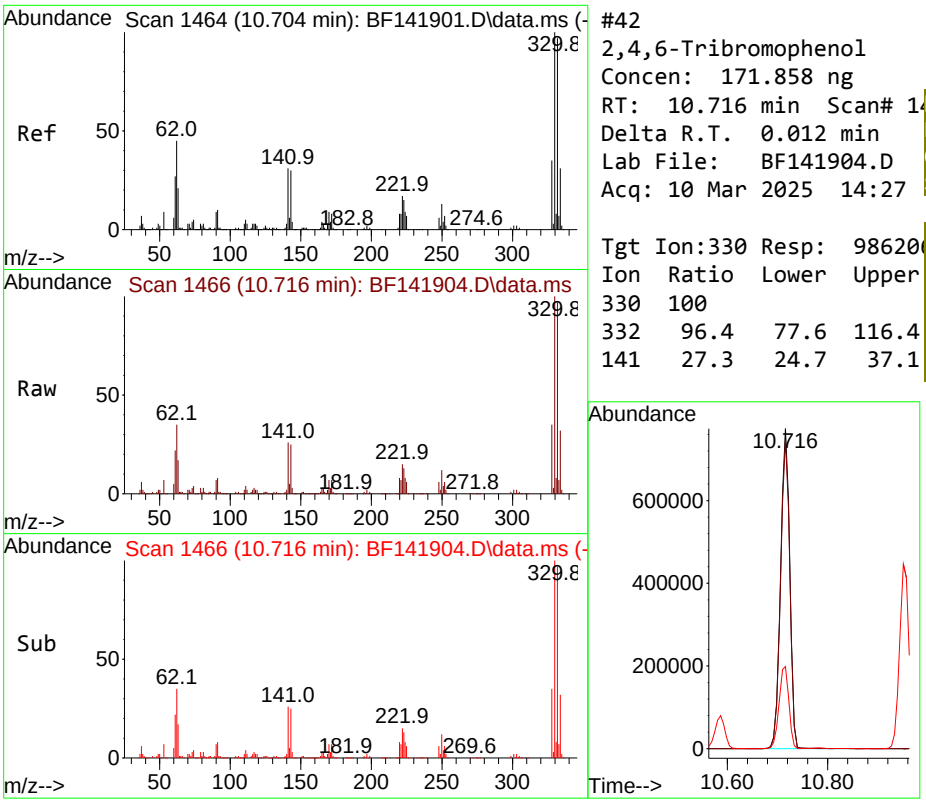


#41
Hexachlorocyclopentadiene
Concen: 85.031 ng
RT: 9.028 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:237 Resp: 463300

Ion	Ratio	Lower	Upper
237	100		
235	62.6	43.1	83.1
272	12.4	0.0	32.0





#42
2,4,6-Tribromophenol
Concen: 171.858 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

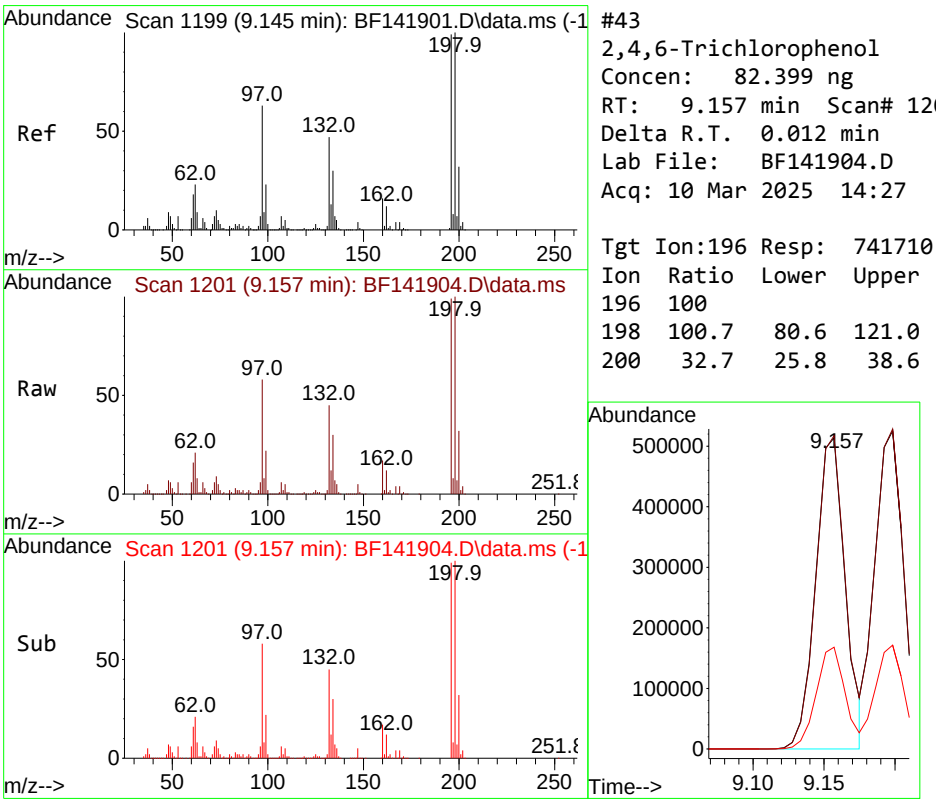
Tgt Ion:330 Resp: 98620

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.6	116.4
141	27.3	24.7	37.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

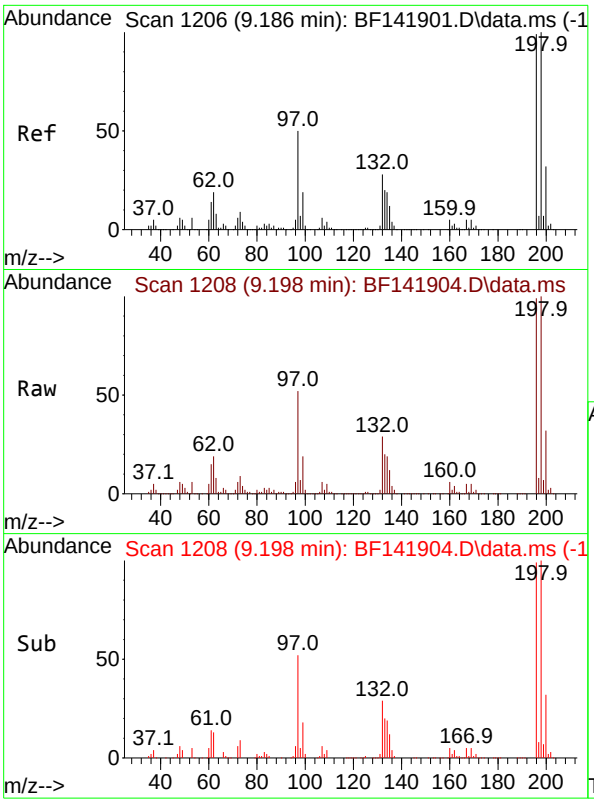
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#43
2,4,6-Trichlorophenol
Concen: 82.399 ng
RT: 9.157 min Scan# 1201
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:196 Resp: 741710

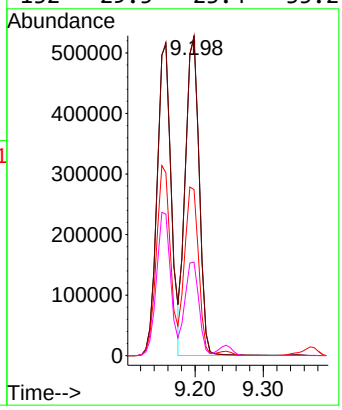
Ion	Ratio	Lower	Upper
196	100		
198	100.7	80.6	121.0
200	32.7	25.8	38.6



#44
2,4,5-Trichlorophenol
Concen: 80.579 ng
RT: 9.198 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:196 Resp: 73692

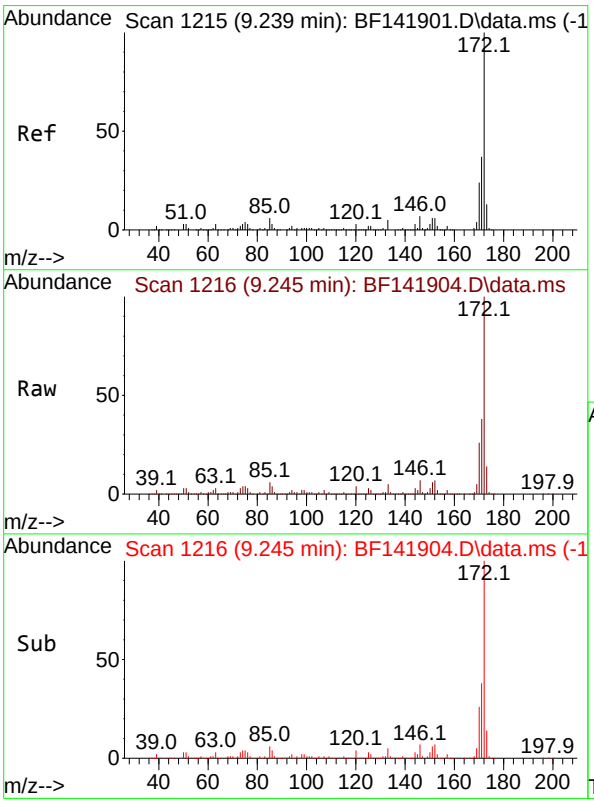
Ion	Ratio	Lower	Upper
196	100		
198	100.6	80.7	121.1
97	52.2	42.1	63.1
132	29.5	23.4	35.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

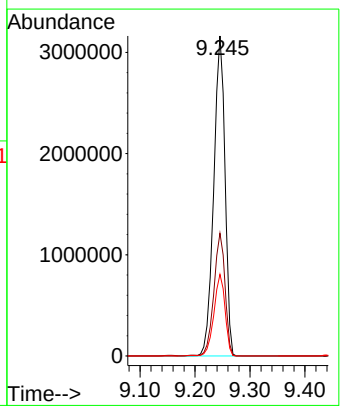
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

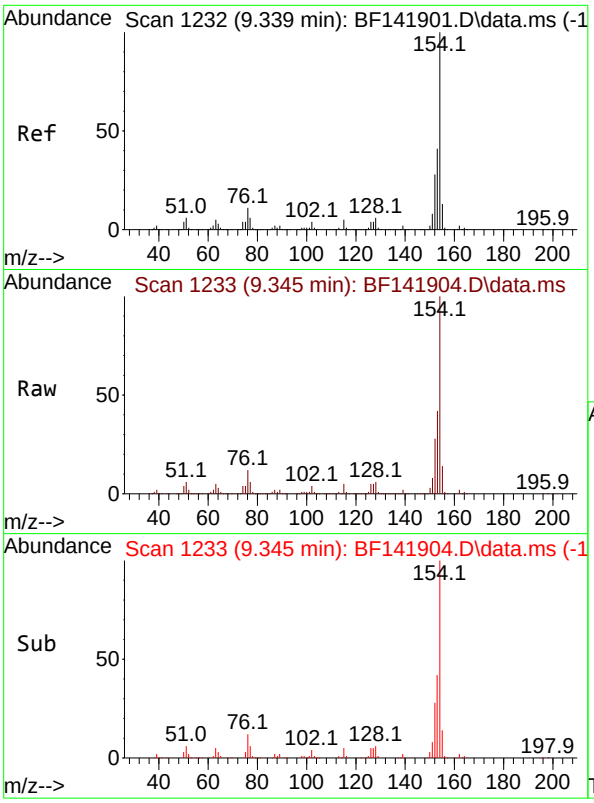


#45
2-Fluorobiphenyl
Concen: 151.763 ng
RT: 9.245 min Scan# 1216
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:172 Resp: 4513418

Ion	Ratio	Lower	Upper
172	100		
171	38.4	29.3	43.9
170	25.5	19.4	29.0

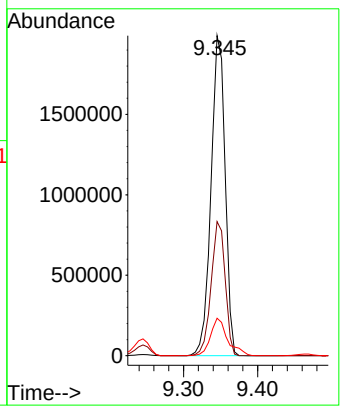




#46
1,1'-Biphenyl
Concen: 76.503 ng
RT: 9.345 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:154 Resp: 262669

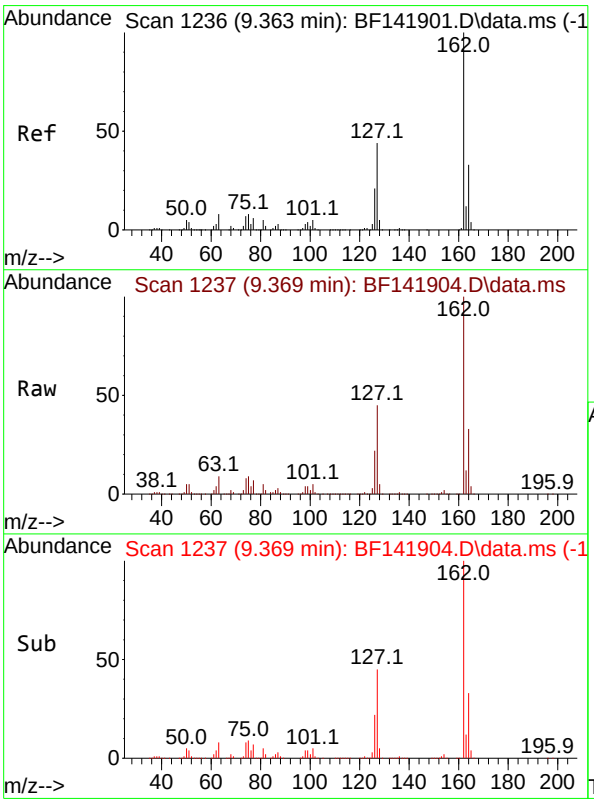
Ion	Ratio	Lower	Upper
154	100		
153	41.9	21.1	61.1
76	11.7	0.0	31.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

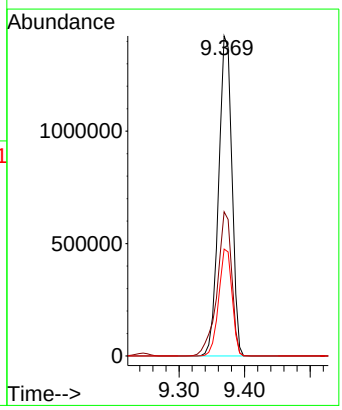
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

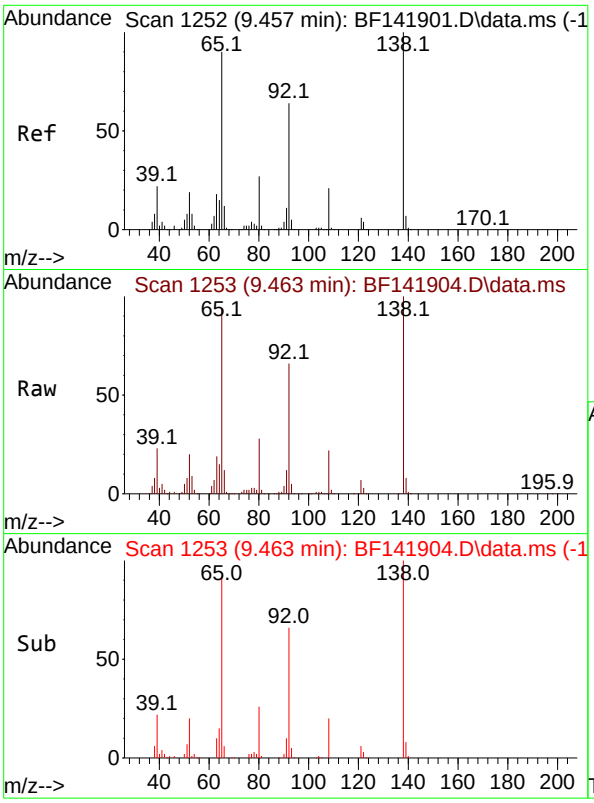


#47
2-Chloronaphthalene
Concen: 77.859 ng
RT: 9.369 min Scan# 1237
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:162 Resp: 1992242

Ion	Ratio	Lower	Upper
162	100		
127	45.0	35.5	53.3
164	33.4	26.6	40.0





#48
2-Nitroaniline
Concen: 81.326 ng
RT: 9.463 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

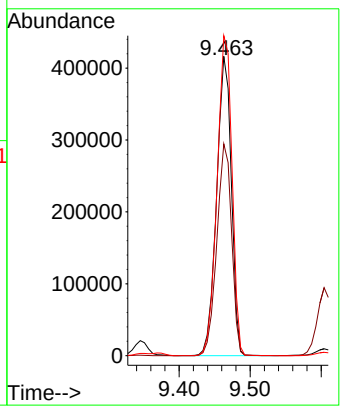
Tgt Ion: 65 Resp: 59777

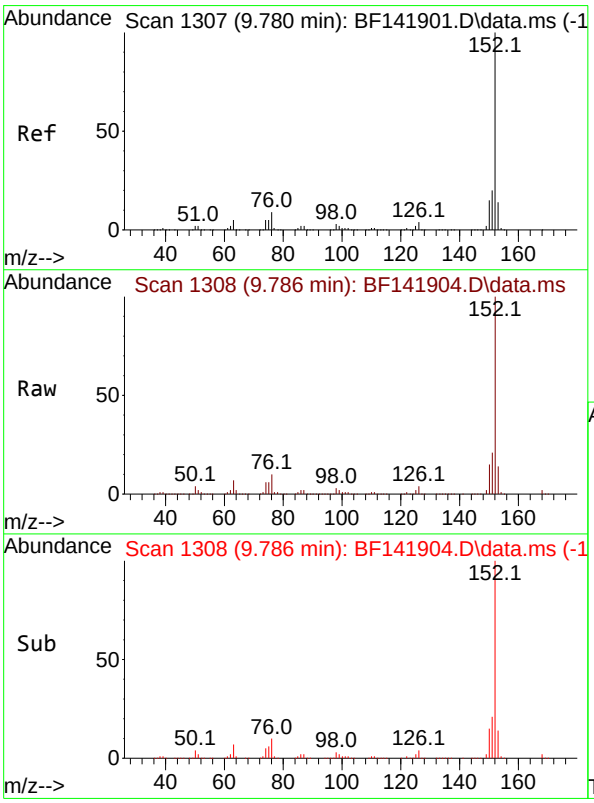
Ion	Ratio	Lower	Upper
65	100		
92	70.8	56.6	84.8
138	106.9	88.6	133.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

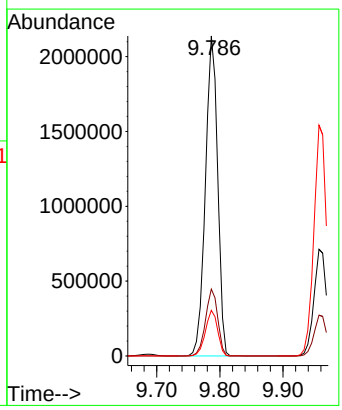


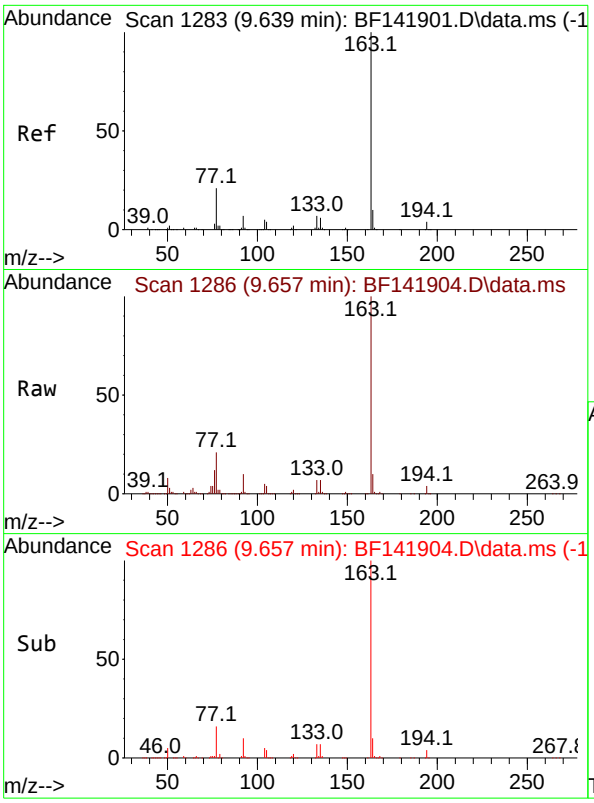


#49
Acenaphthylene
Concen: 75.877 ng
RT: 9.786 min Scan# 1308
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:152 Resp: 2878496

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.3	24.5
153	14.2	11.1	16.7

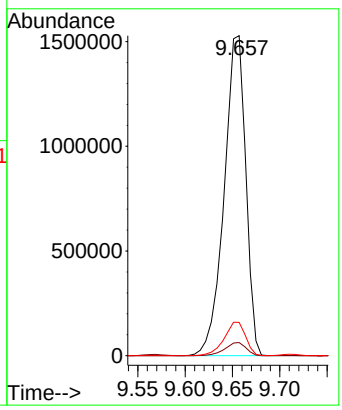




#50
Dimethylphthalate
Concen: 77.192 ng
RT: 9.657 min Scan# 1
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:163 Resp: 242884

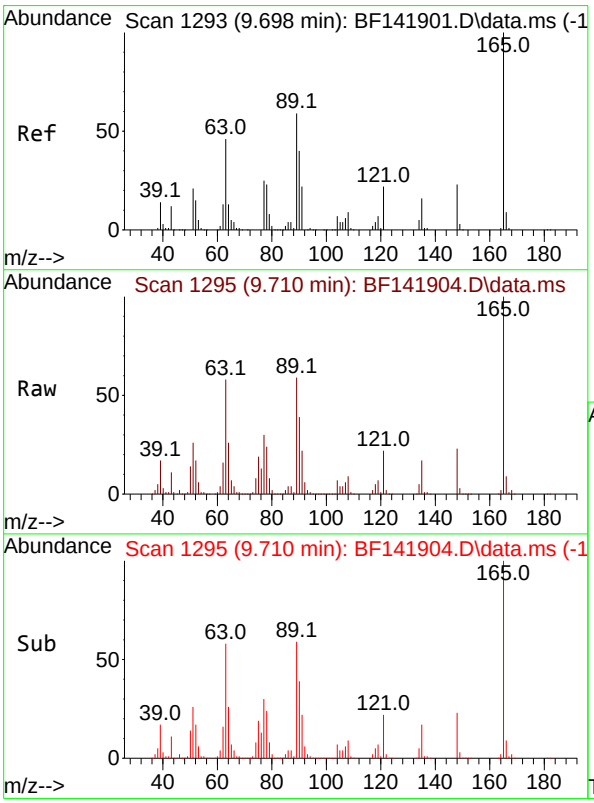
Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	10.4	8.2	12.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

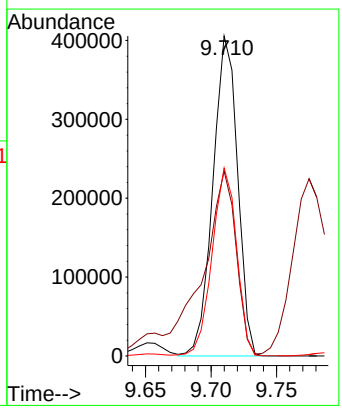
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

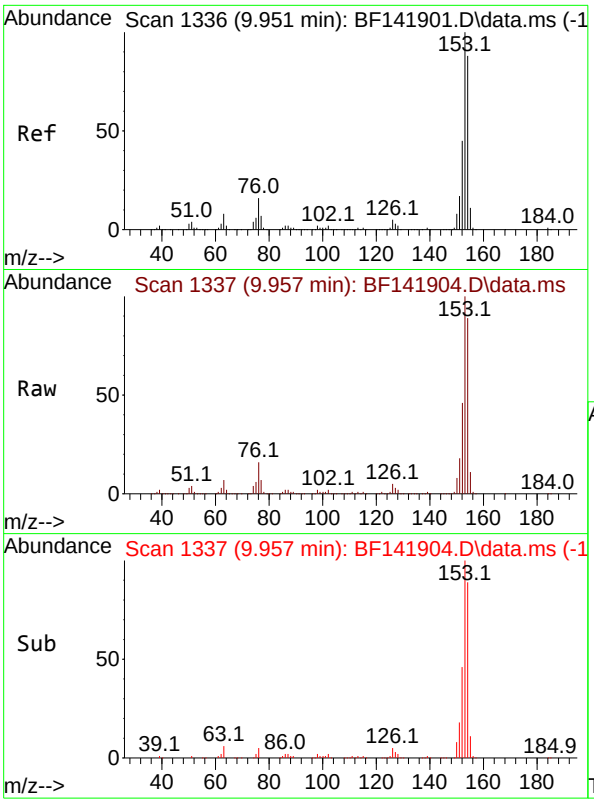


#51
2,6-Dinitrotoluene
Concen: 80.867 ng
RT: 9.710 min Scan# 1295
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:165 Resp: 529139

Ion	Ratio	Lower	Upper
165	100		
63	57.7	47.0	70.4
89	58.8	47.4	71.2

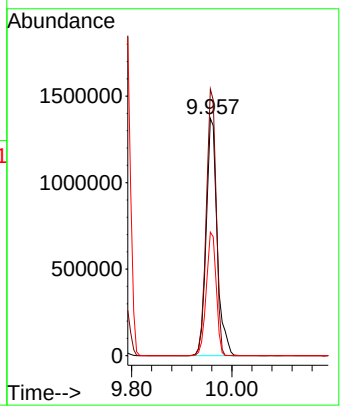




#52
Acenaphthene
Concen: 77.872 ng
RT: 9.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:154 Resp: 208594

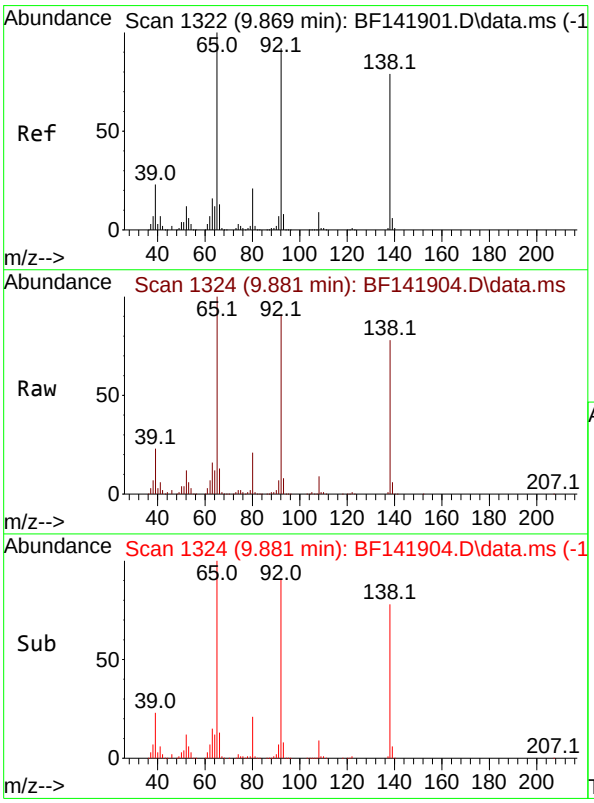
Ion	Ratio	Lower	Upper
154	100		
153	112.4	90.7	136.1
152	52.0	41.1	61.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

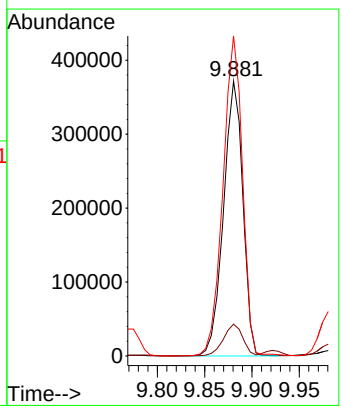
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

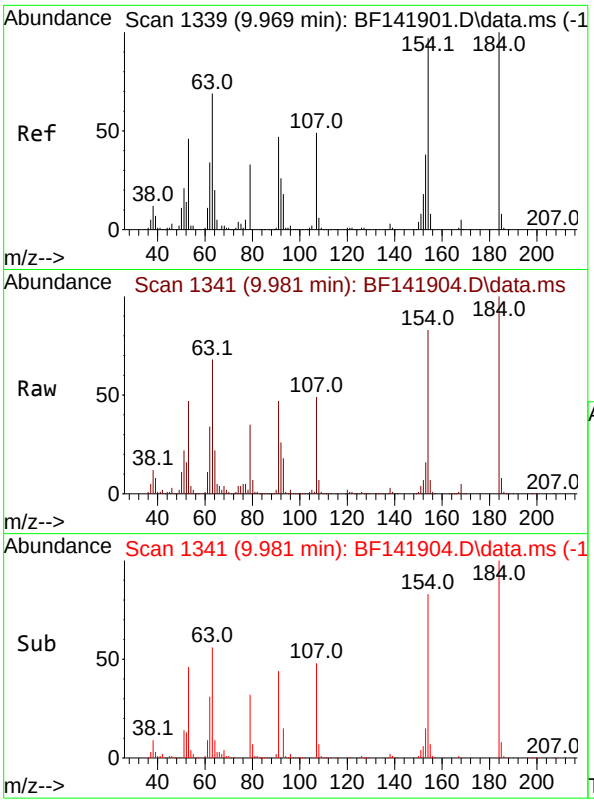


#53
3-Nitroaniline
Concen: 78.435 ng
RT: 9.881 min Scan# 1324
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:138 Resp: 526980

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.3	13.9
92	116.4	93.5	140.3

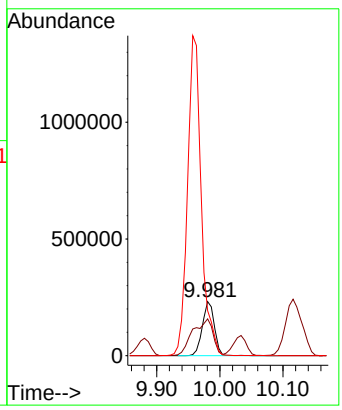




#54
2,4-Dinitrophenol
Concen: 81.479 ng
RT: 9.981 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:184 Resp: 30539

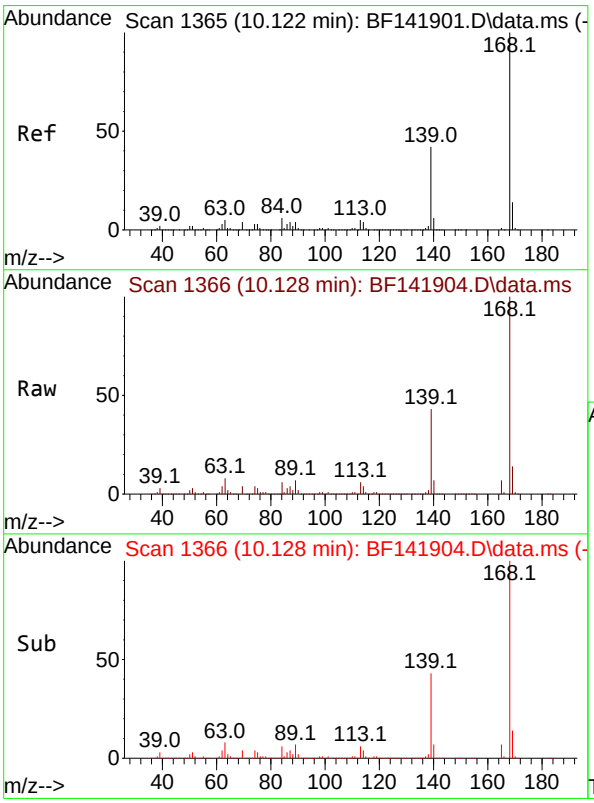
Ion	Ratio	Lower	Upper
184	100		
63	68.1	60.2	90.4
154	82.9	132.9	199.3#



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

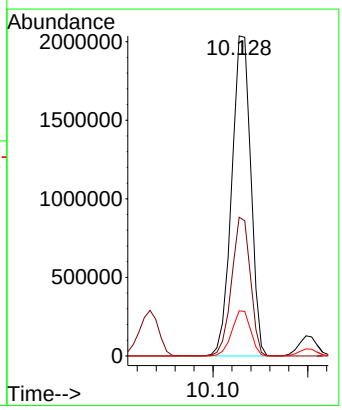
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

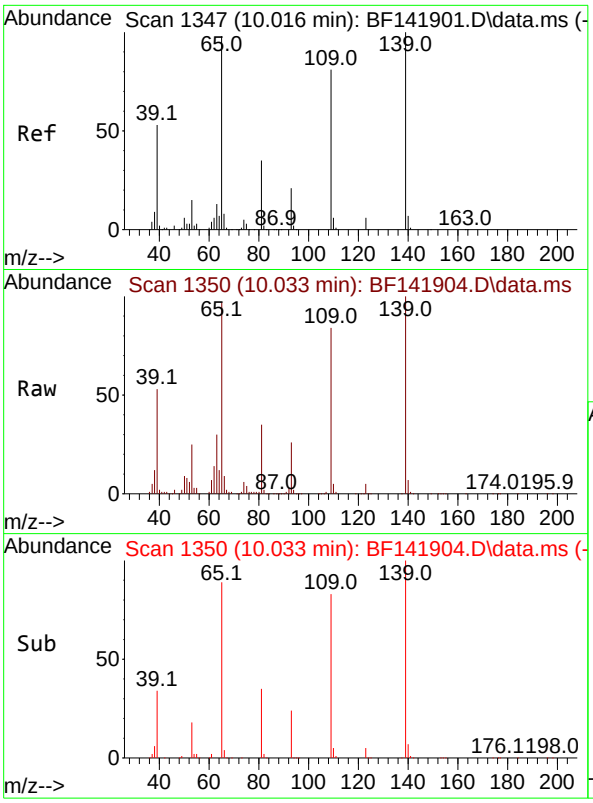


#55
Dibenzofuran
Concen: 74.474 ng
RT: 10.128 min Scan# 1366
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:168 Resp: 2844432

Ion	Ratio	Lower	Upper
168	100		
139	43.4	33.9	50.9
169	14.1	11.0	16.4





#56
4-Nitrophenol
Concen: 82.456 ng
RT: 10.033 min Scan# 1
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

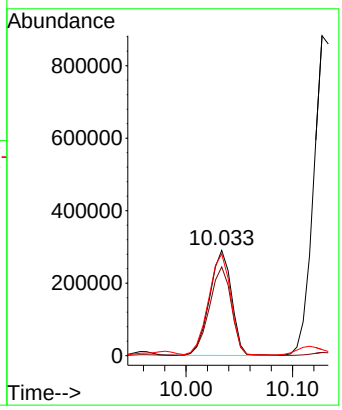
Tgt Ion:139 Resp: 41615

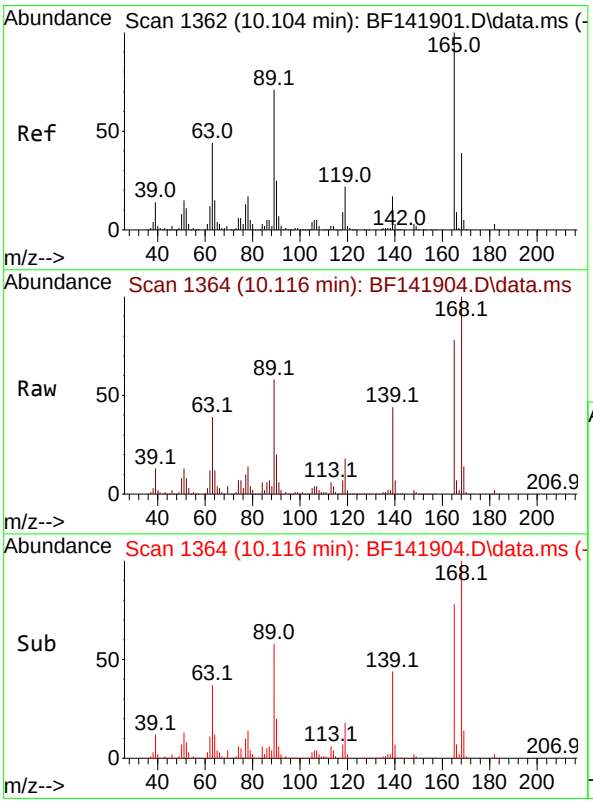
Ion	Ratio	Lower	Upper
139	100		
109	84.3	61.6	101.6
65	96.7	79.4	119.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

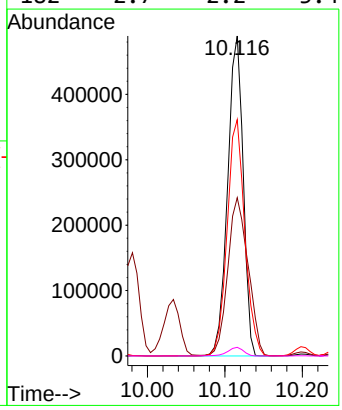


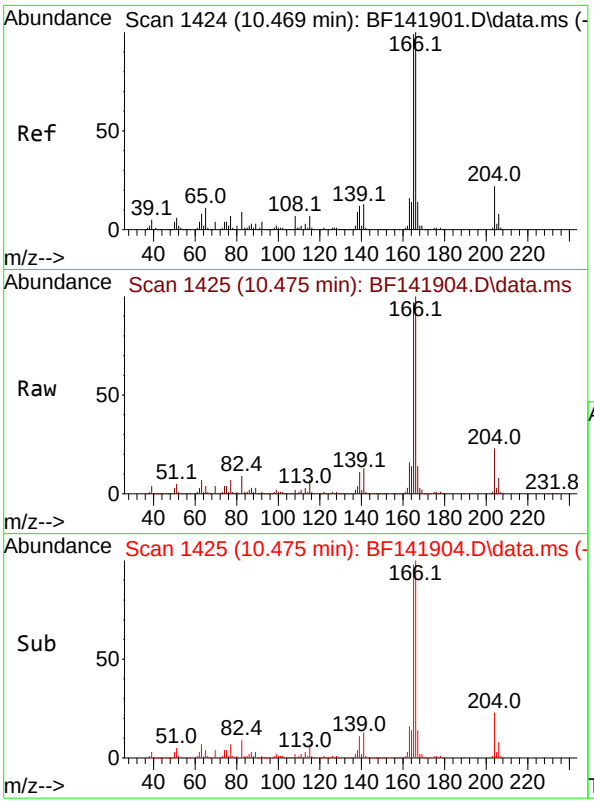


#57
2,4-Dinitrotoluene
Concen: 79.099 ng
RT: 10.116 min Scan# 1364
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:165 Resp: 681278

Ion	Ratio	Lower	Upper
165	100		
63	49.4	35.4	53.2
89	73.9	56.6	84.8
182	2.7	2.2	3.4

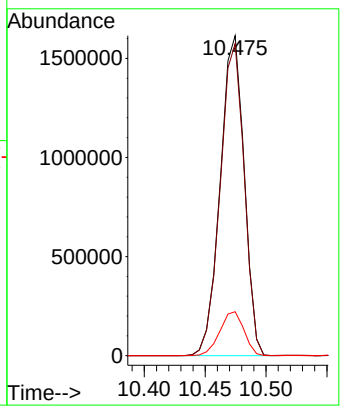




#58
Fluorene
Concen: 74.974 ng
RT: 10.475 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:166 Resp: 221065

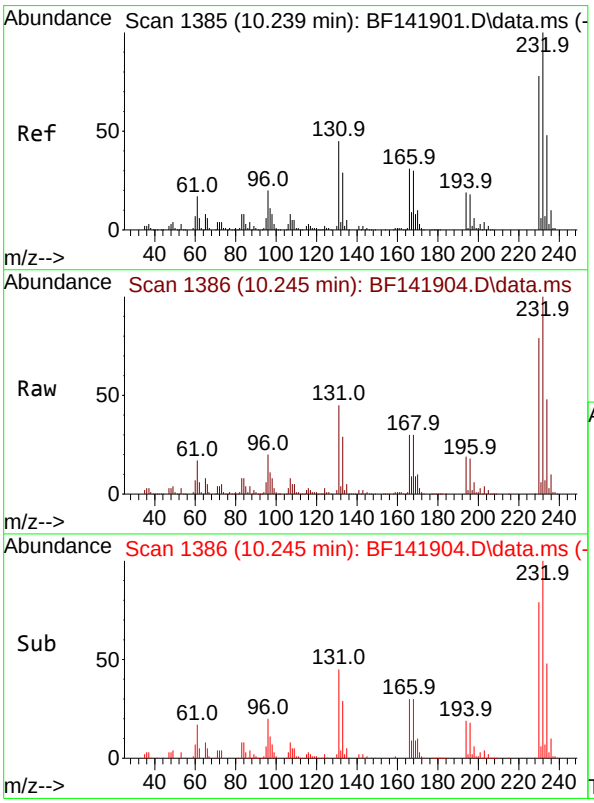
Ion	Ratio	Lower	Upper
166	100		
165	97.5	79.0	118.4
167	13.8	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

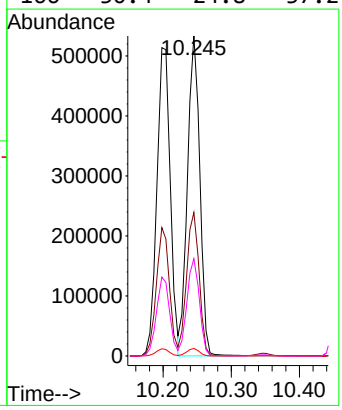
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

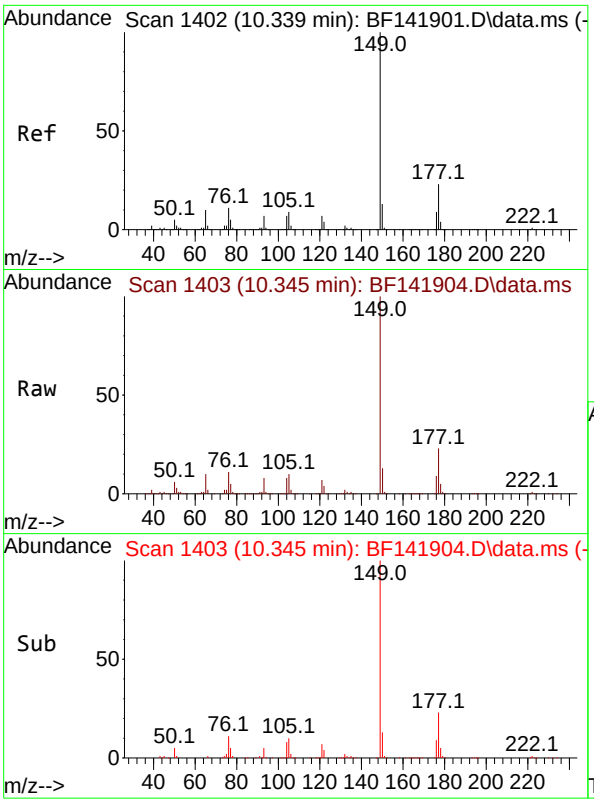


#59
2,3,4,6-Tetrachlorophenol
Concen: 80.507 ng
RT: 10.245 min Scan# 1386
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:232 Resp: 668027

Ion	Ratio	Lower	Upper
232	100		
131	45.4	37.3	55.9
130	2.3	1.9	2.9
166	30.4	24.8	37.2

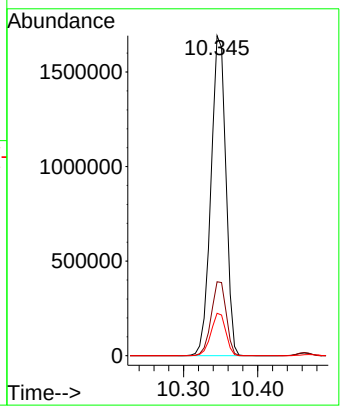




#60
Diethylphthalate
Concen: 74.681 ng
RT: 10.345 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:149 Resp: 235892

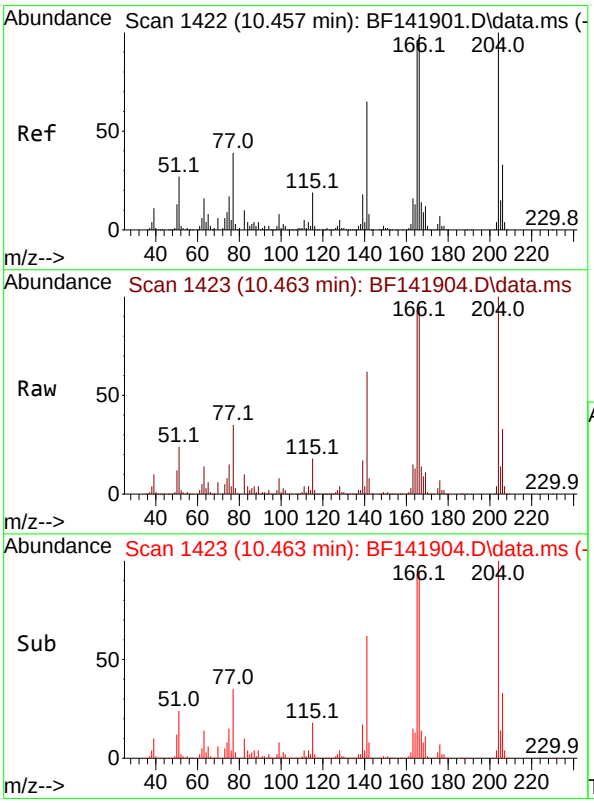
Ion	Ratio	Lower	Upper
149	100		
177	23.1	18.0	27.0
150	13.3	10.2	15.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

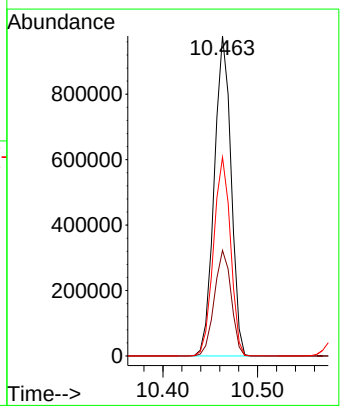
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

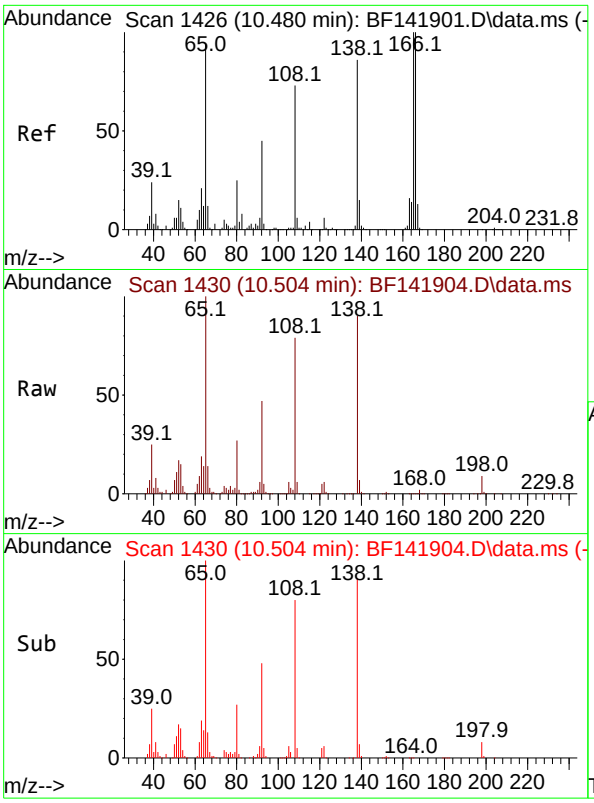


#61
4-Chlorophenyl-phenylether
Concen: 78.724 ng
RT: 10.463 min Scan# 1423
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:204 Resp: 1209021

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.8	40.2
141	62.1	52.4	78.6

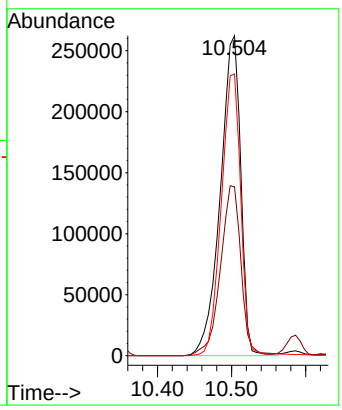




#62
4-Nitroaniline
Concen: 77.243 ng
RT: 10.504 min Scan# 14
Delta R.T. 0.024 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:138 Resp: 50289

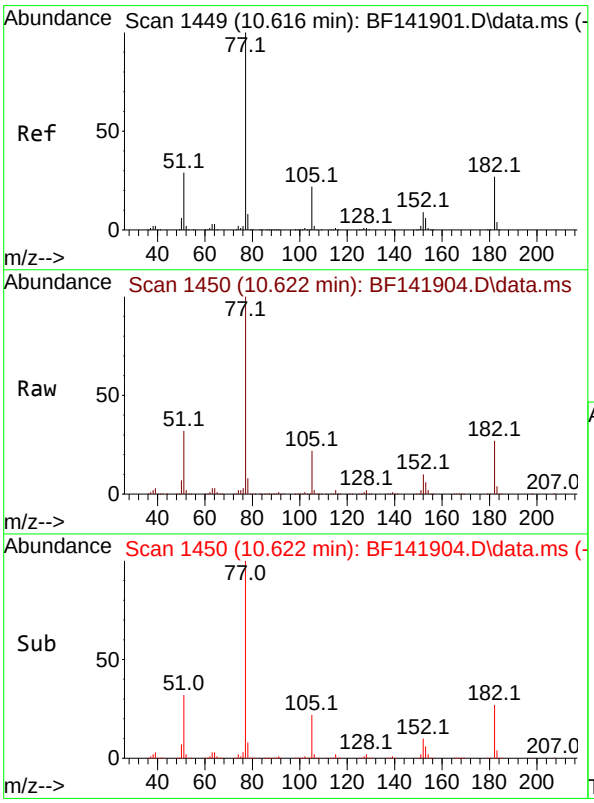
Ion	Ratio	Lower	Upper
138	100		
92	52.8	32.6	72.6
108	88.1	65.0	105.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

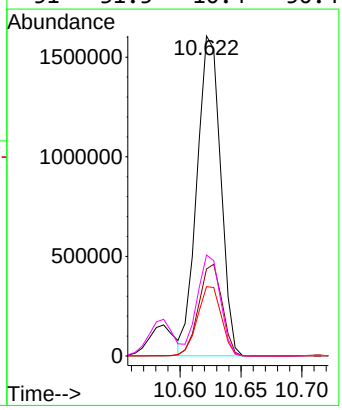
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

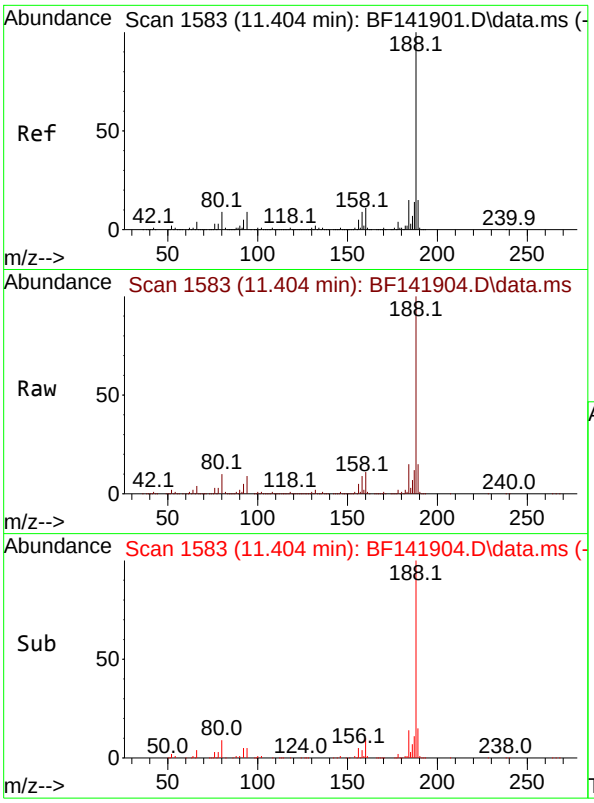


#63
Azobenzene
Concen: 73.911 ng
RT: 10.622 min Scan# 1450
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 77 Resp: 2168742

Ion	Ratio	Lower	Upper
77	100		
182	27.2	6.6	46.6
105	21.7	1.3	41.3
51	31.5	10.4	50.4

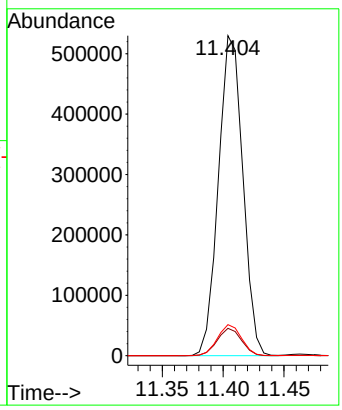




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:188 Resp: 73847

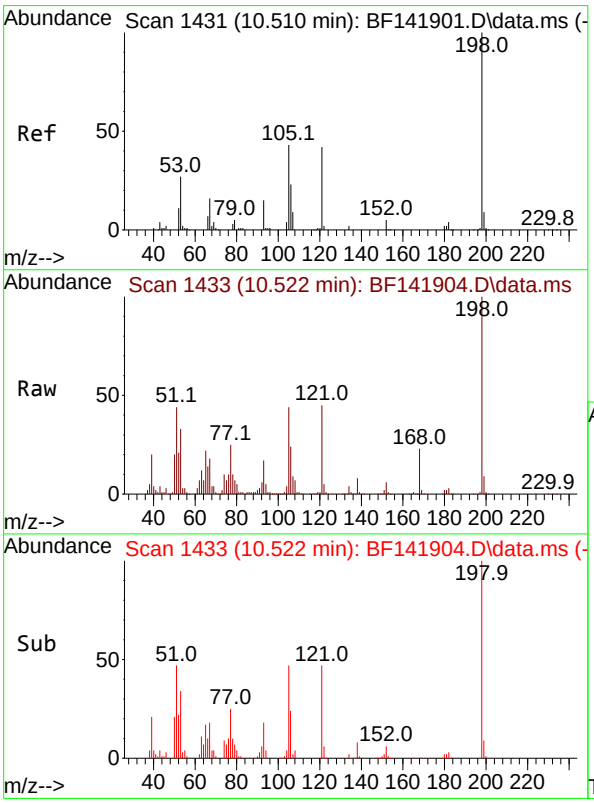
Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.8	10.2
80	9.7	7.6	11.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

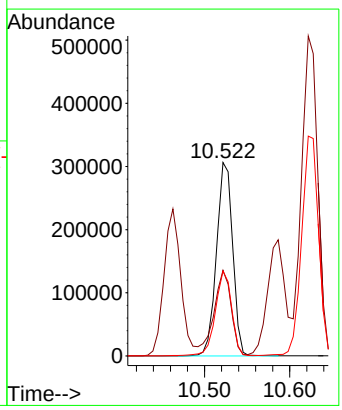
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

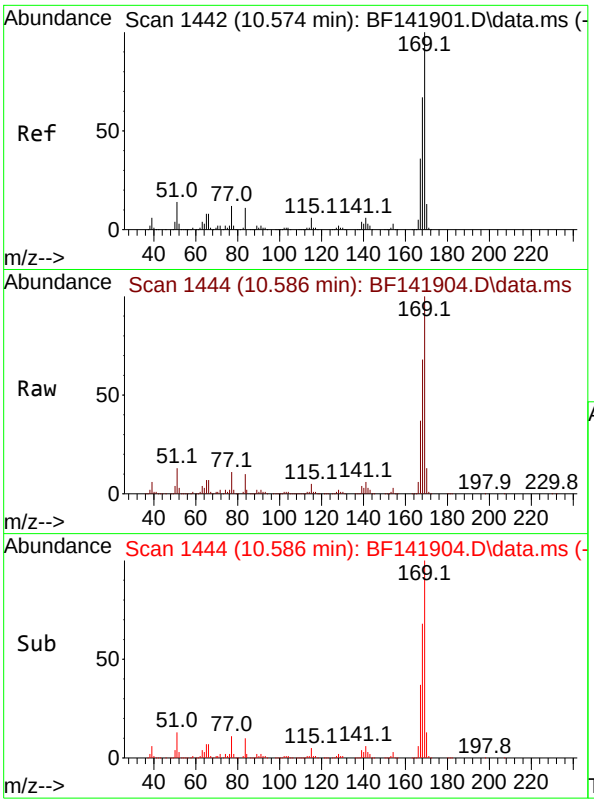


#65
4,6-Dinitro-2-methylphenol
Concen: 92.396 ng
RT: 10.522 min Scan# 1433
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:198 Resp: 404505

Ion	Ratio	Lower	Upper
198	100		
51	44.2	22.3	62.3
105	43.9	23.0	63.0

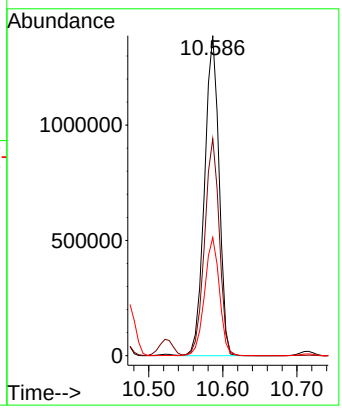




#66
n-Nitrosodiphenylamine
Concen: 78.895 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:169 Resp: 188209

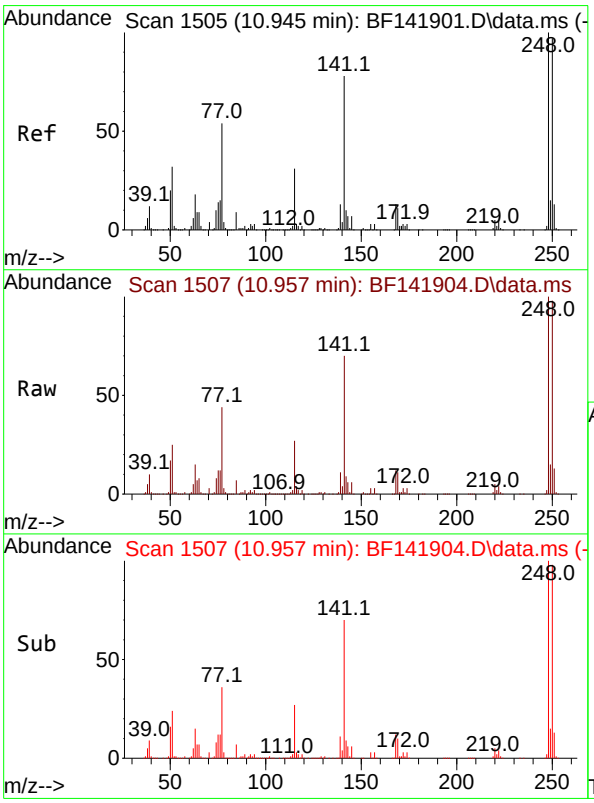
Ion	Ratio	Lower	Upper
169	100		
168	67.8	53.7	80.5
167	36.9	29.2	43.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

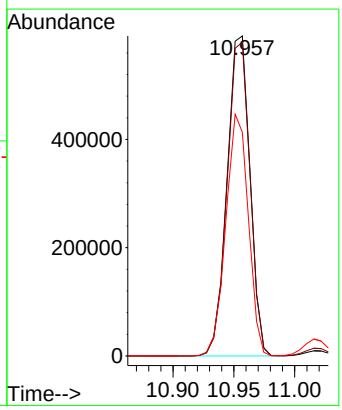
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

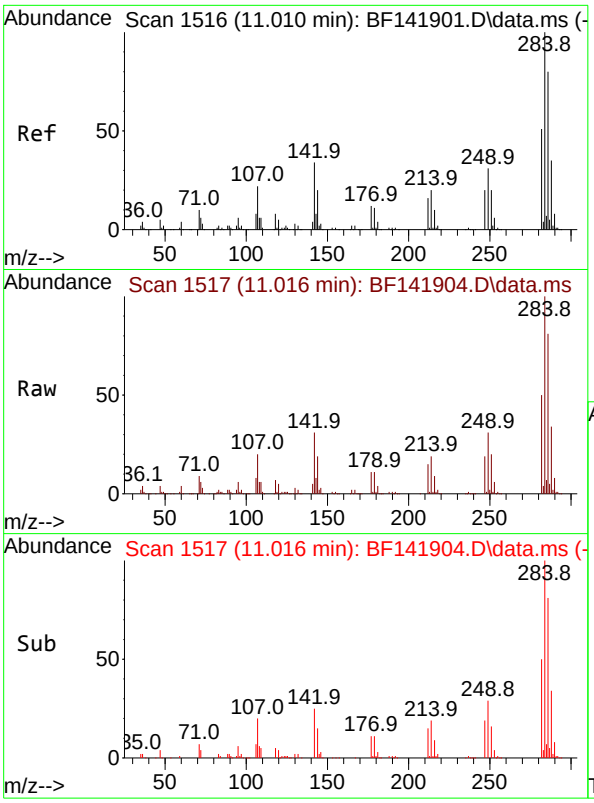


#67
4-Bromophenyl-phenylether
Concen: 84.232 ng
RT: 10.957 min Scan# 1507
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:248 Resp: 774645

Ion	Ratio	Lower	Upper
248	100		
250	98.1	77.8	116.8
141	69.9	62.6	93.8

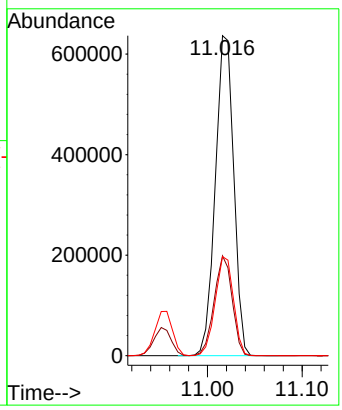




#68
Hexachlorobenzene
Concen: 84.832 ng
RT: 11.016 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:284 Resp: 86235

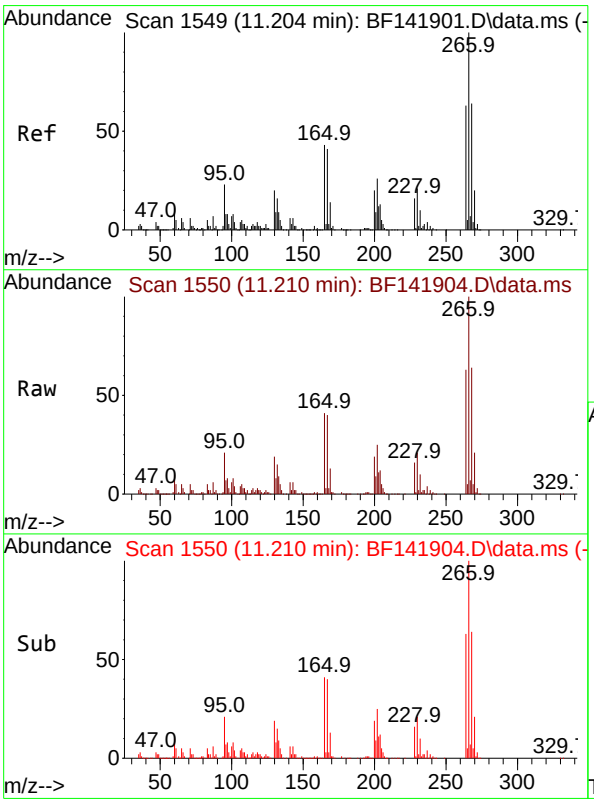
Ion	Ratio	Lower	Upper
284	100		
142	31.2	27.0	40.6
249	31.0	25.2	37.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

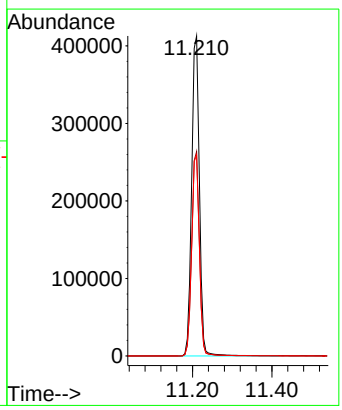
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

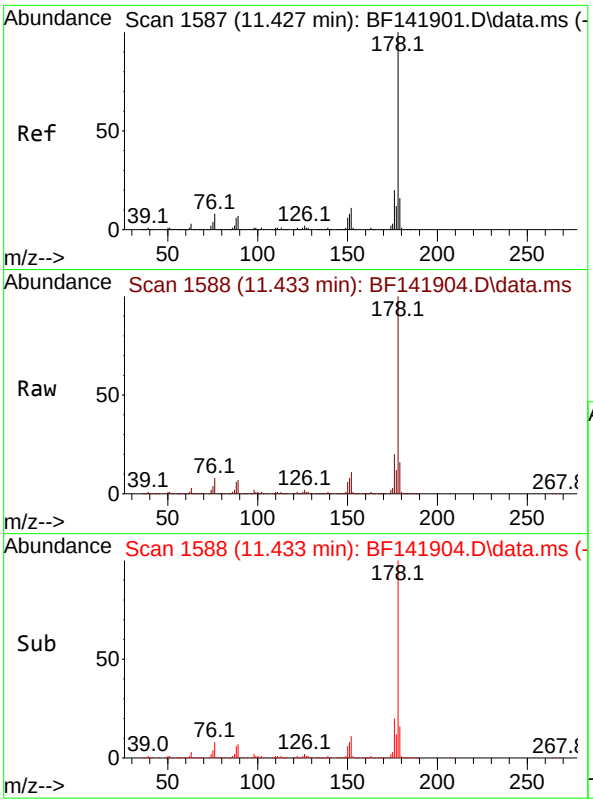


#70
Pentachlorophenol
Concen: 89.813 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:266 Resp: 563030

Ion	Ratio	Lower	Upper
266	100		
268	63.9	51.0	76.6
264	62.9	50.2	75.2

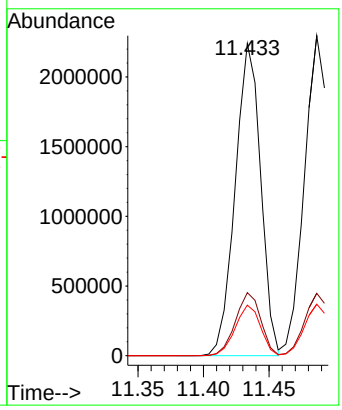




#71
Phenanthrene
Concen: 75.649 ng
RT: 11.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:178 Resp: 302095

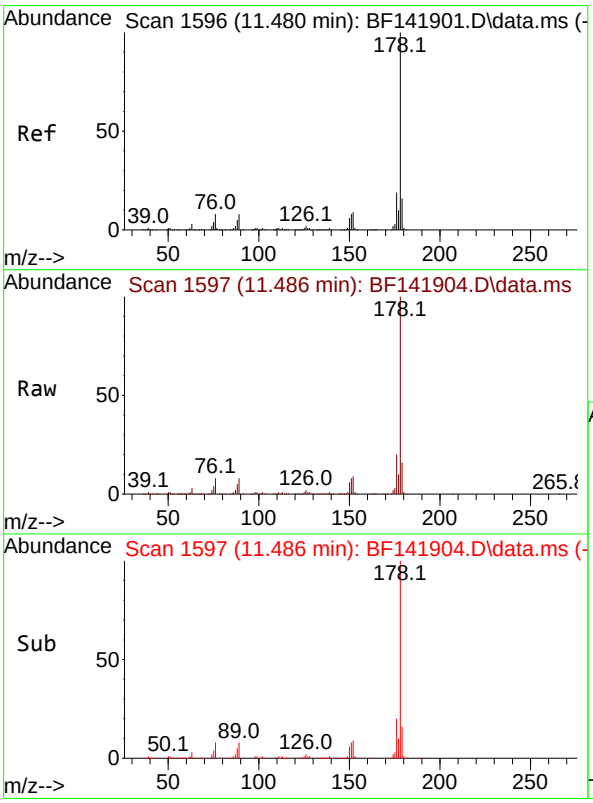
Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.8	23.8
179	16.2	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

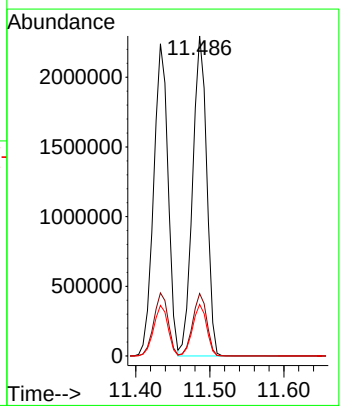
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

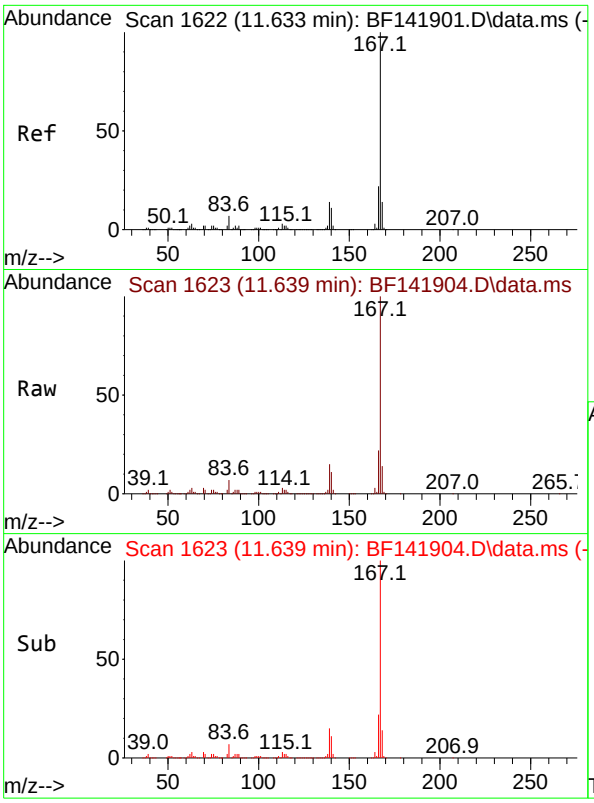


#72
Anthracene
Concen: 75.653 ng
RT: 11.486 min Scan# 1597
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:178 Resp: 3031014

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.1	22.7
179	16.1	12.6	19.0

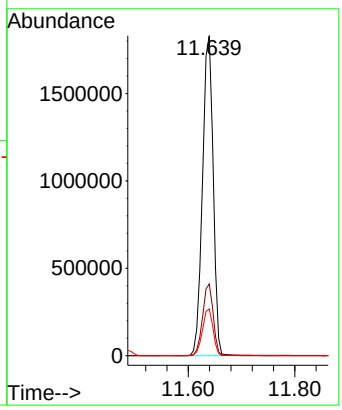




#73
Carbazole
Concen: 74.002 ng
RT: 11.639 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:167 Resp: 255256

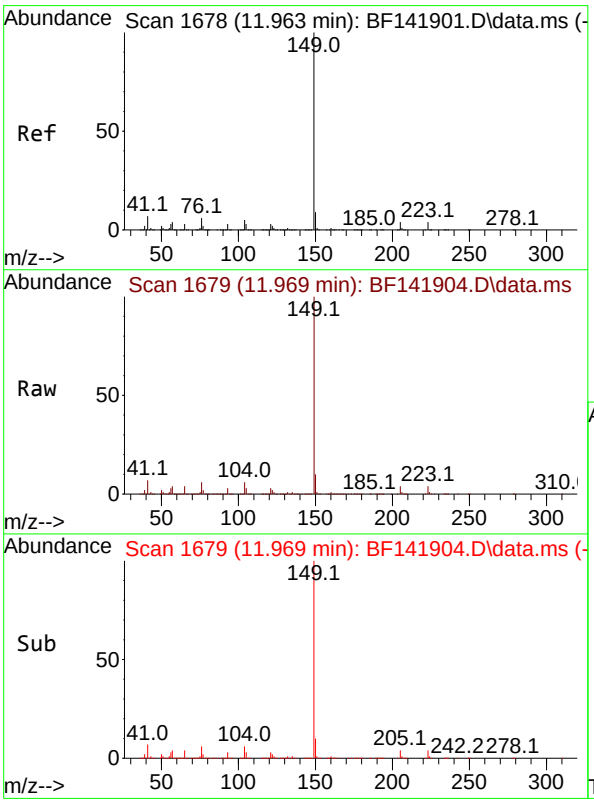
Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.4	26.2
139	14.6	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

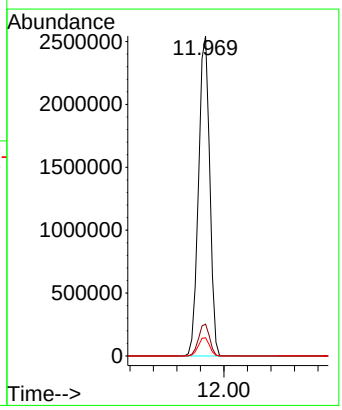
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

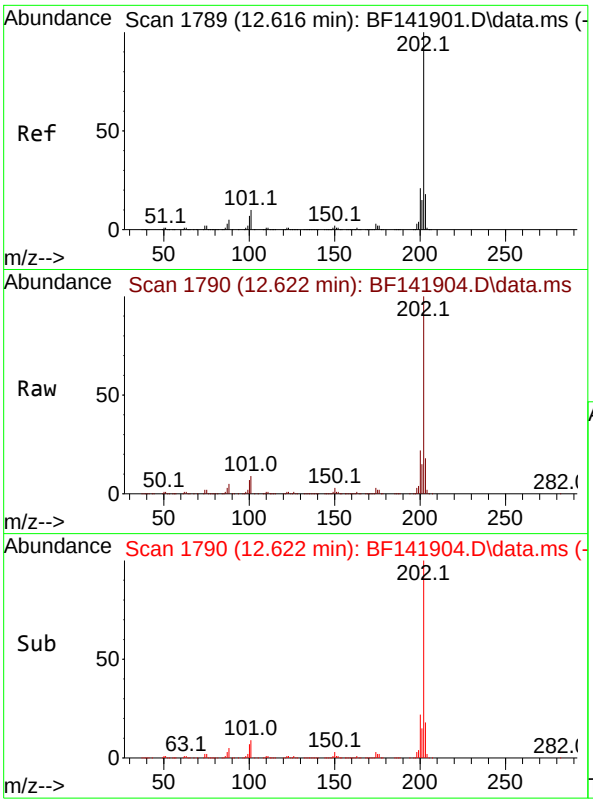


#74
Di-n-butylphthalate
Concen: 73.399 ng
RT: 11.969 min Scan# 1679
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:149 Resp: 3342776

Ion	Ratio	Lower	Upper
149	100		
150	10.0	7.6	11.4
104	5.7	4.4	6.6

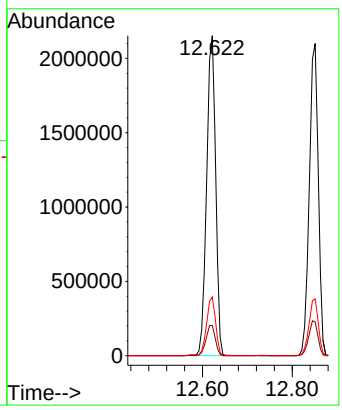




#75
Fluoranthene
Concen: 71.694 ng
RT: 12.622 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:202 Resp: 300556

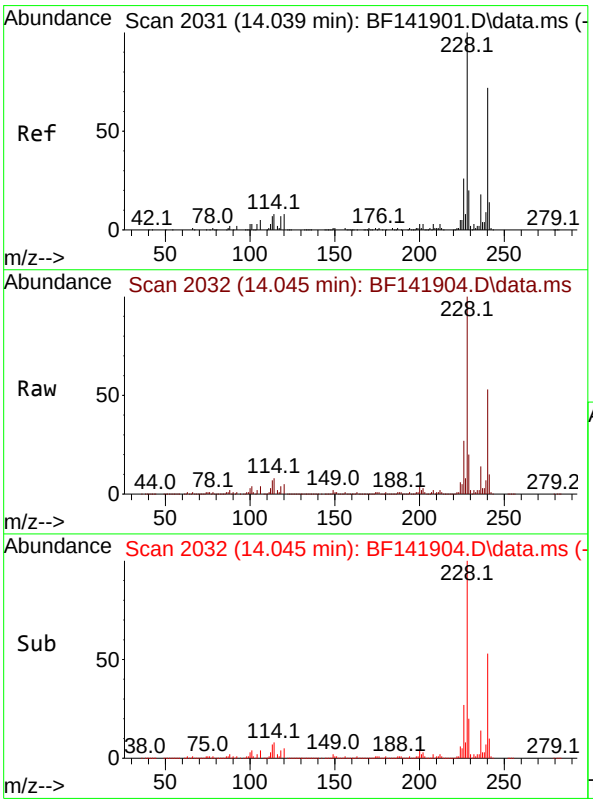
Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	29.7
203	18.4	0.0	37.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

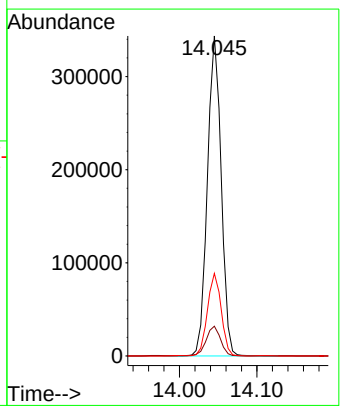
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

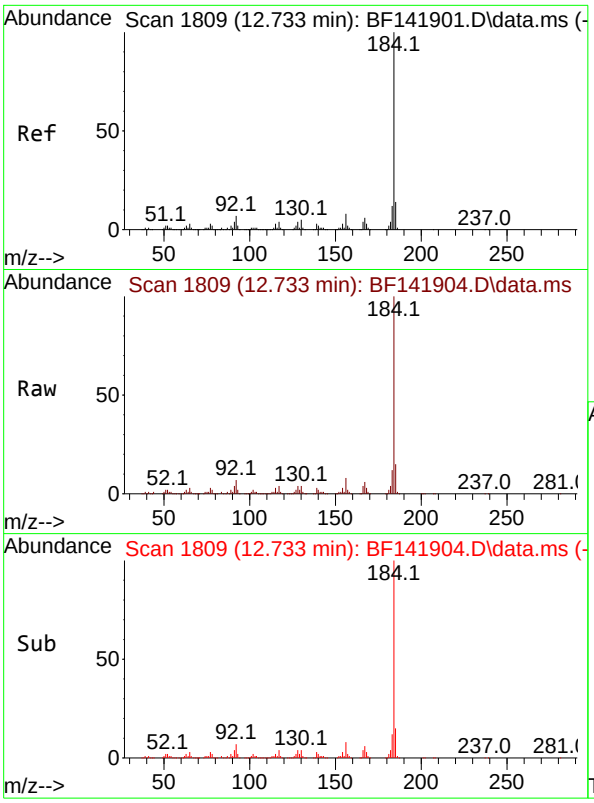


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:240 Resp: 424370

Ion	Ratio	Lower	Upper
240	100		
120	9.3	8.4	12.6
236	25.8	20.5	30.7

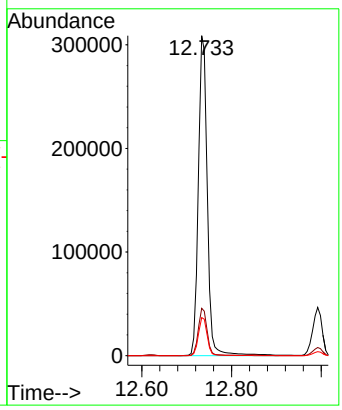




#77
Benzidine
Concen: 71.330 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:184 Resp: 42777

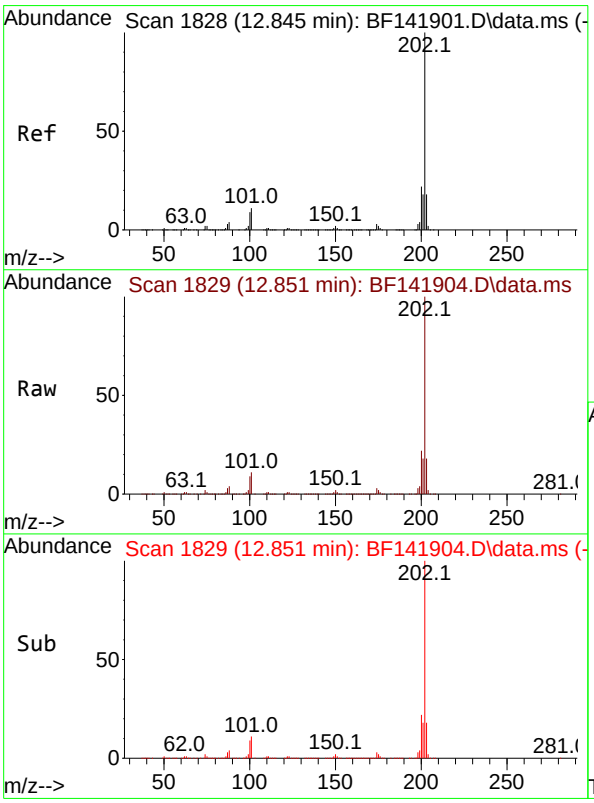
Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.5	17.3
183	11.9	9.7	14.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

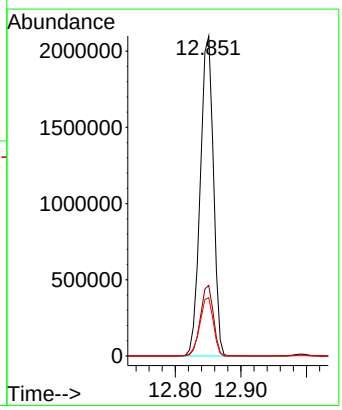
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

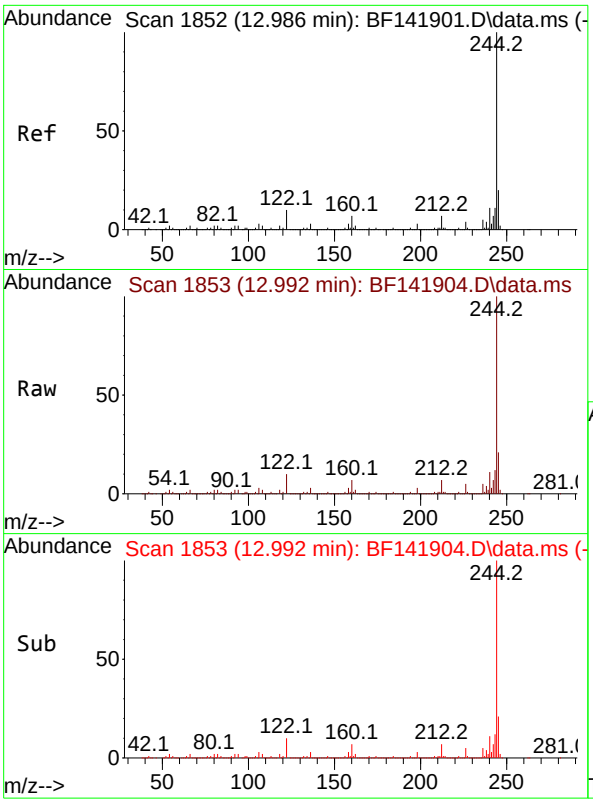


#78
Pyrene
Concen: 80.513 ng
RT: 12.851 min Scan# 1829
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:202 Resp: 2930115

Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.3	25.9
203	18.2	14.4	21.6

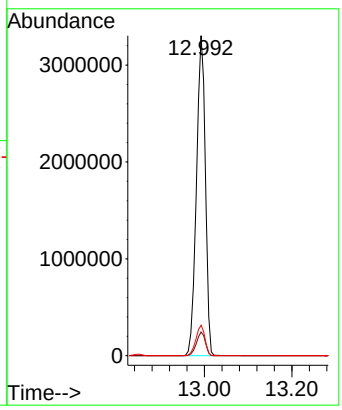




#79
Terphenyl-d14
Concen: 163.713 ng
RT: 12.992 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:244 Resp: 470002

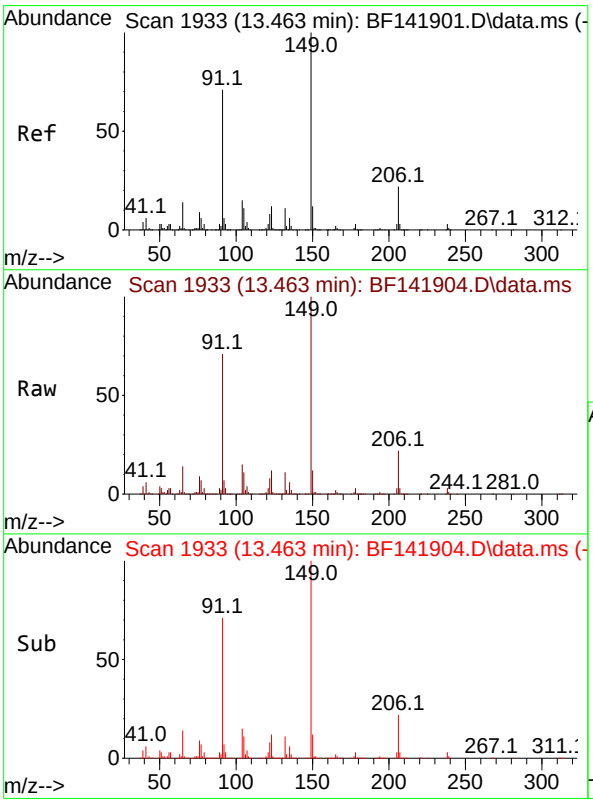
Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	9.5	7.7	11.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

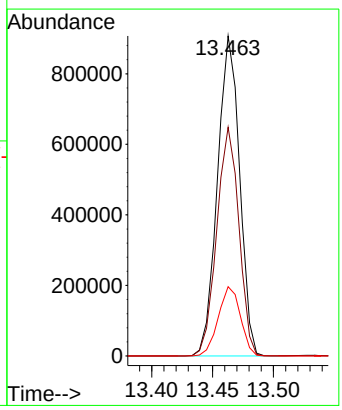
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

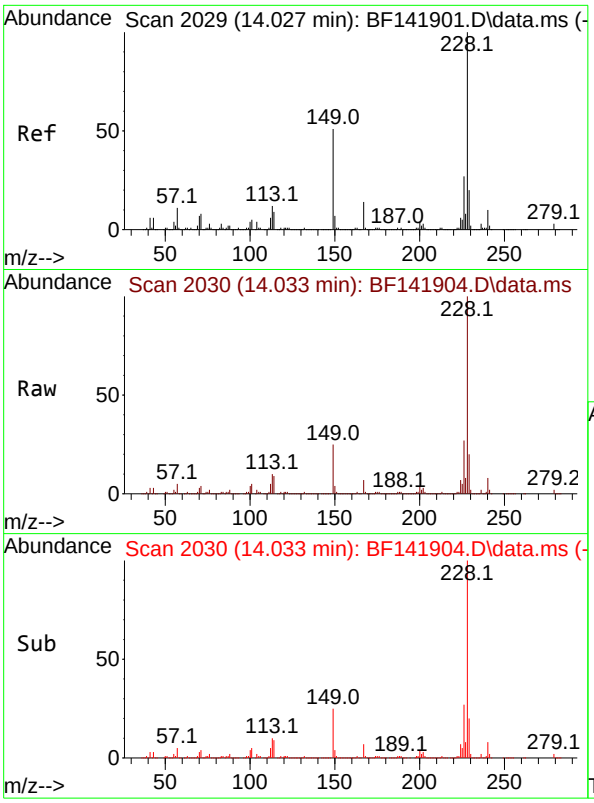


#80
Butylbenzylphthalate
Concen: 80.189 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:149 Resp: 1149989

Ion	Ratio	Lower	Upper
149	100		
91	71.4	56.5	84.7
206	21.7	17.3	25.9

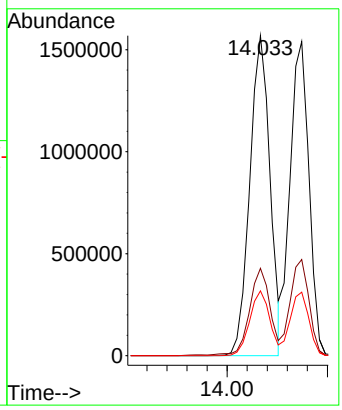




#81
Benzo(a)anthracene
Concen: 78.692 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:228 Resp: 219693

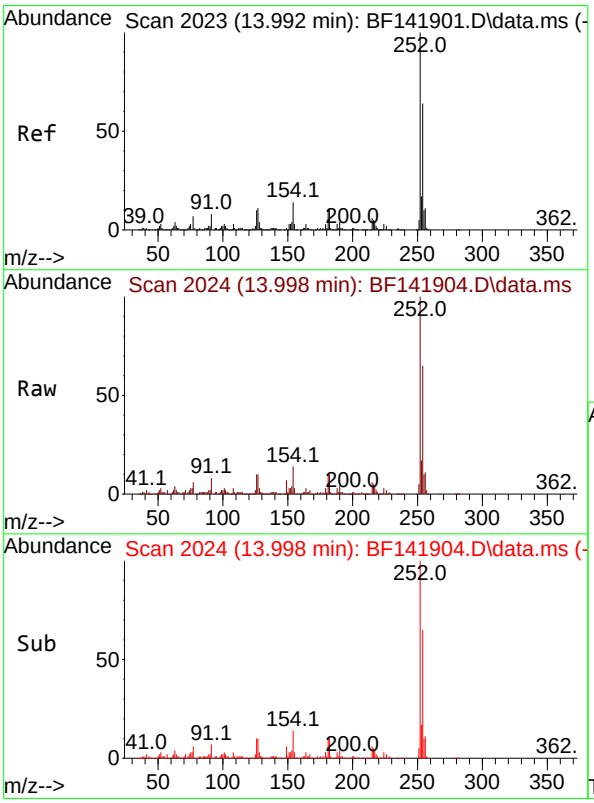
Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	20.3	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

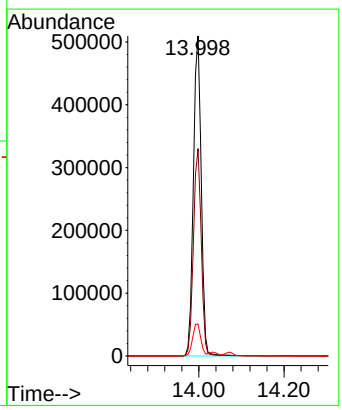
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

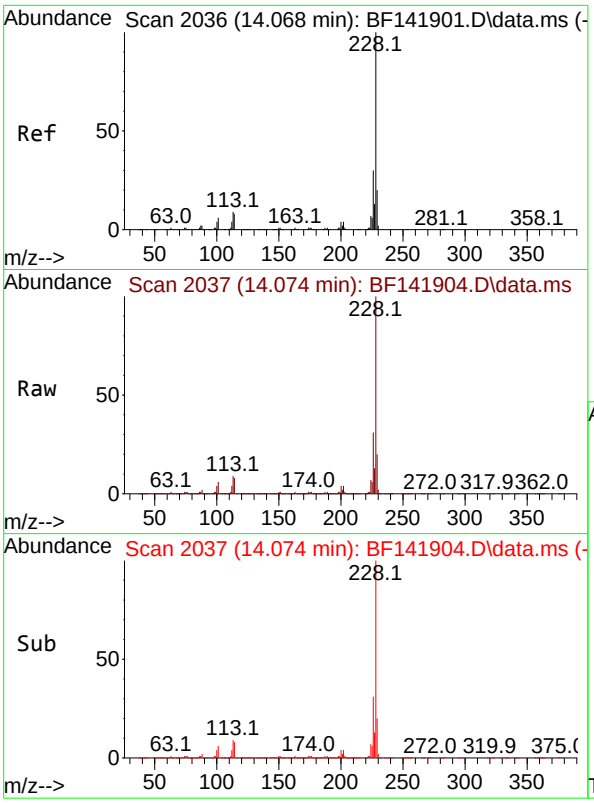


#82
3,3'-Dichlorobenzidine
Concen: 80.884 ng
RT: 13.998 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:252 Resp: 652678

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.0	76.6
126	9.9	8.4	12.6

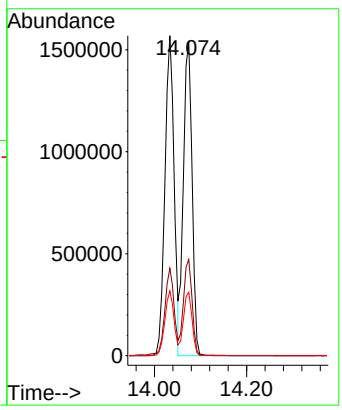




#83
Chrysene
Concen: 80.498 ng
RT: 14.074 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:228 Resp: 201883

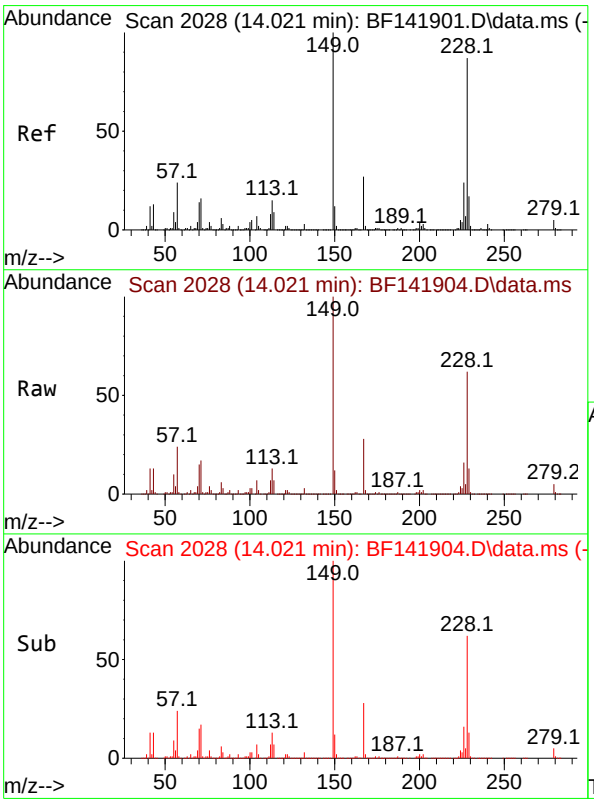
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.1	36.1
229	20.2	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

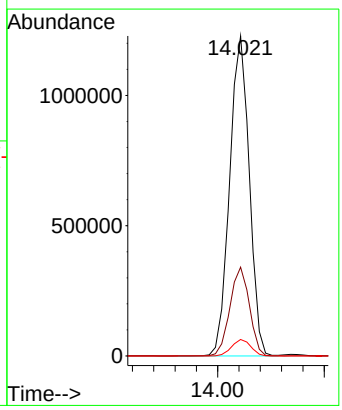
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

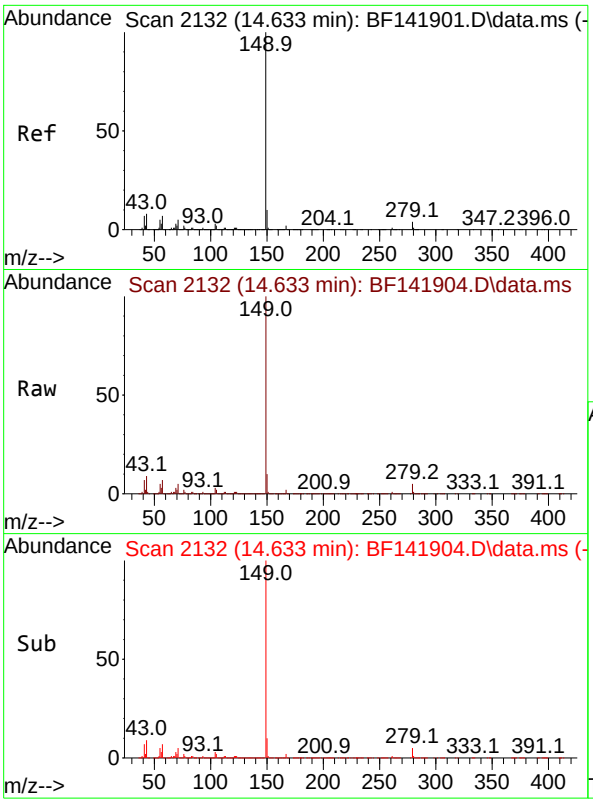


#84
Bis(2-ethylhexyl)phthalate
Concen: 79.962 ng
RT: 14.021 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:149 Resp: 1573231

Ion	Ratio	Lower	Upper
149	100		
167	27.7	21.4	32.0
279	5.2	3.8	5.6

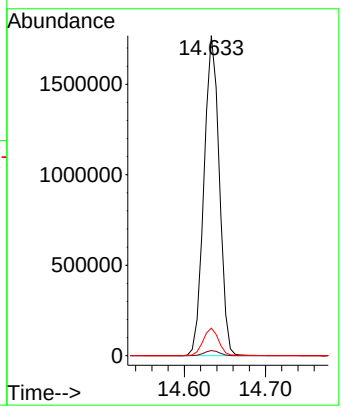




#85
Di-n-octyl phthalate
Concen: 84.386 ng
RT: 14.633 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:149 Resp: 231083

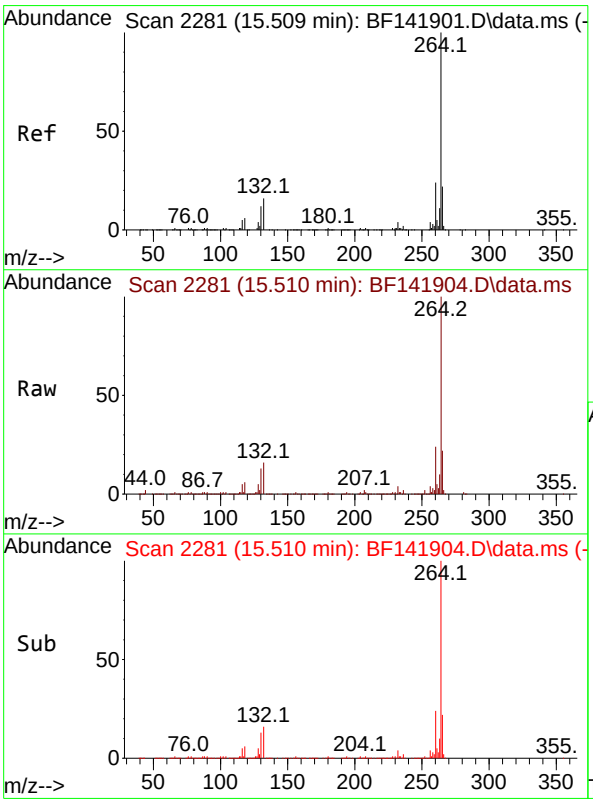
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.7	6.9	10.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

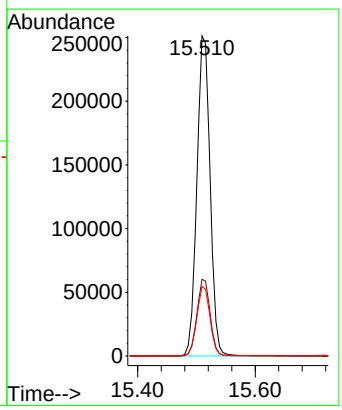
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

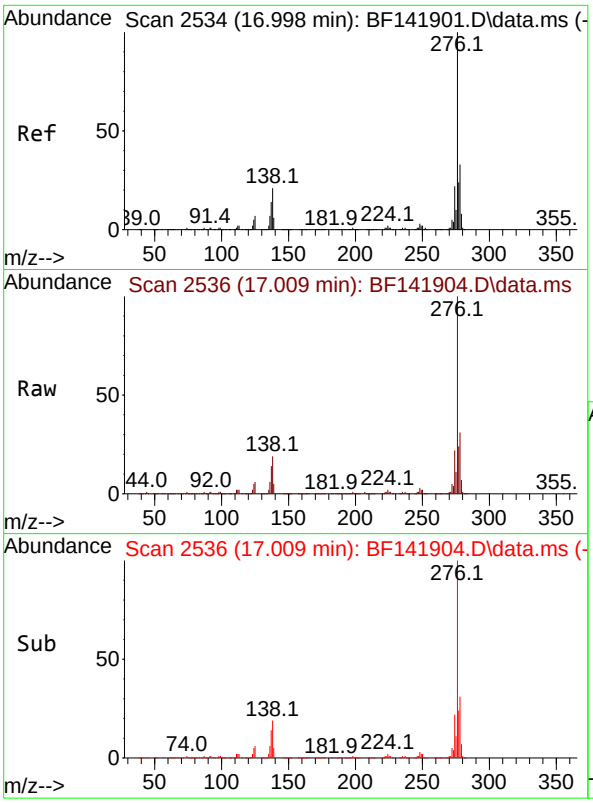


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:264 Resp: 391768

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	21.7	17.5	26.3

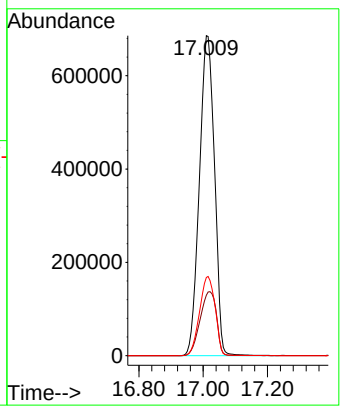




#87
Indeno(1,2,3-cd)pyrene
Concen: 88.111 ng
RT: 17.009 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:276 Resp: 223858

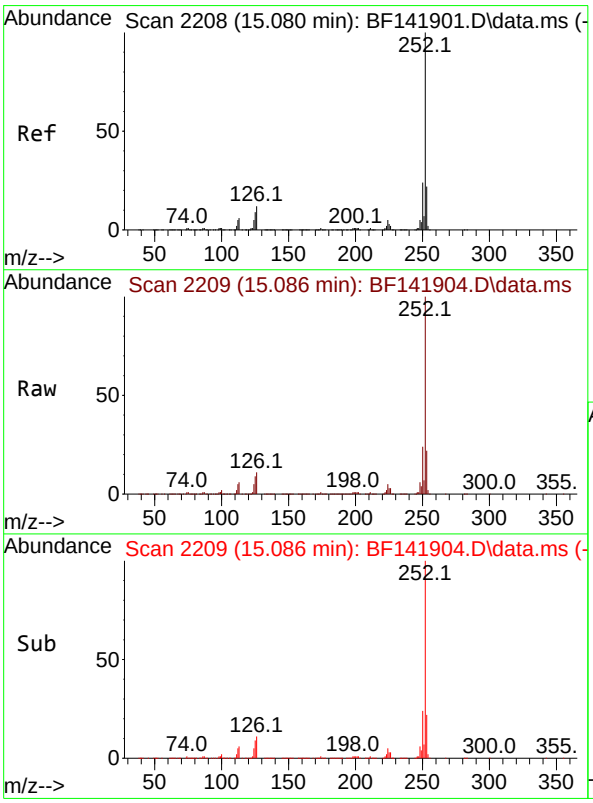
Ion	Ratio	Lower	Upper
276	100		
138	21.6	18.4	27.6
277	25.5	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

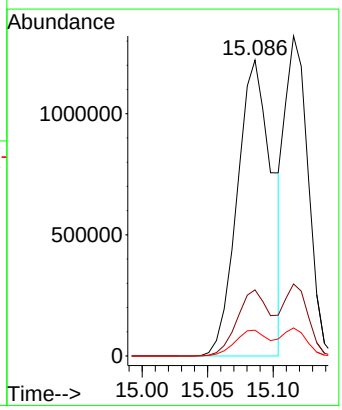
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

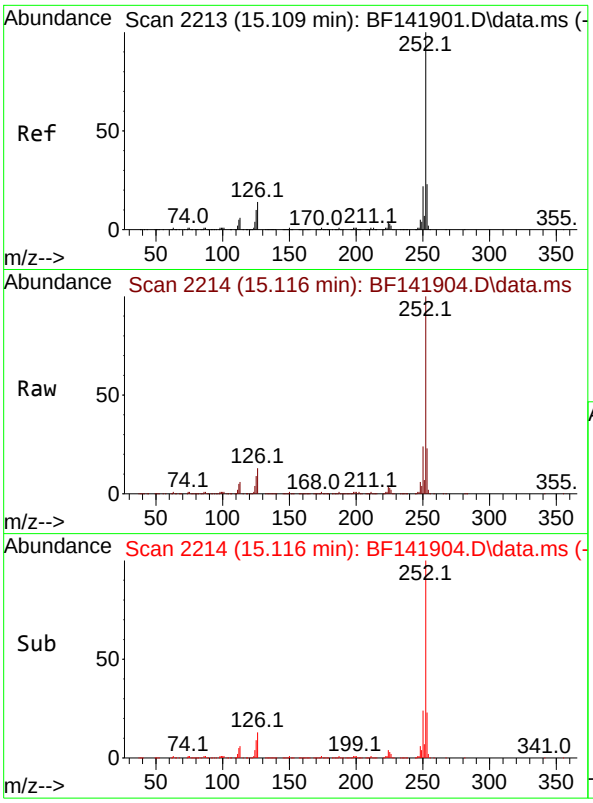


#88
Benzo(b)fluoranthene
Concen: 84.536 ng
RT: 15.086 min Scan# 2209
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:252 Resp: 2246428

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	8.7	7.0	10.4

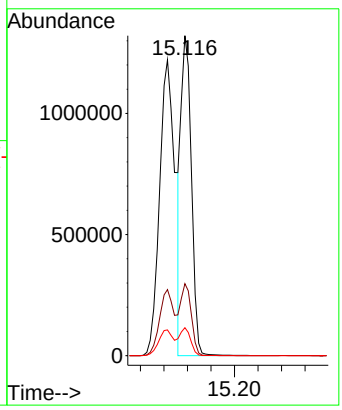




#89
Benzo(k)fluoranthene
Concen: 70.292 ng
RT: 15.116 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:252 Resp: 163167

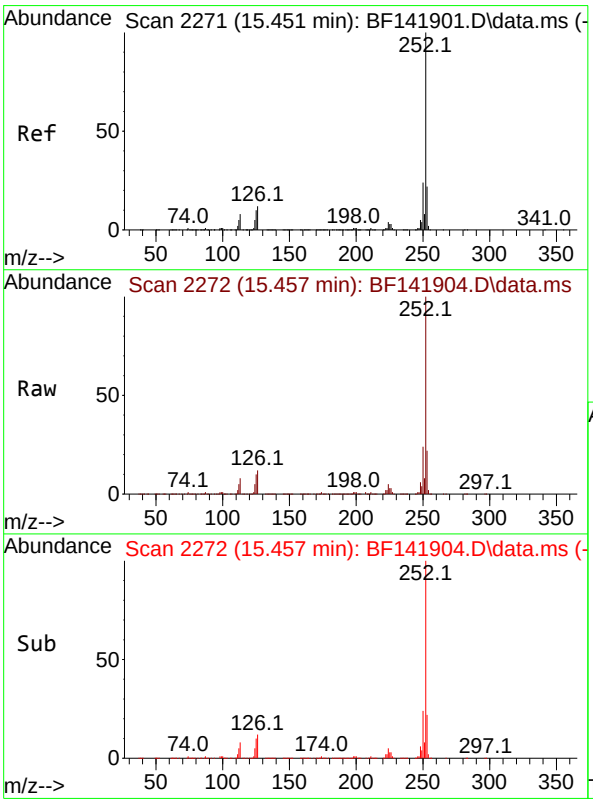
Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	8.8	7.2	10.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

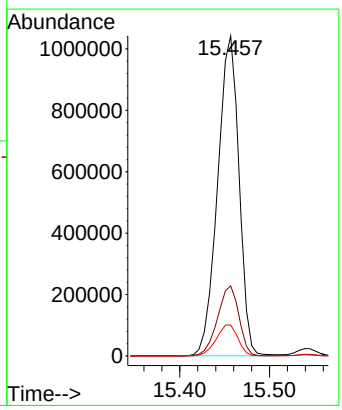
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

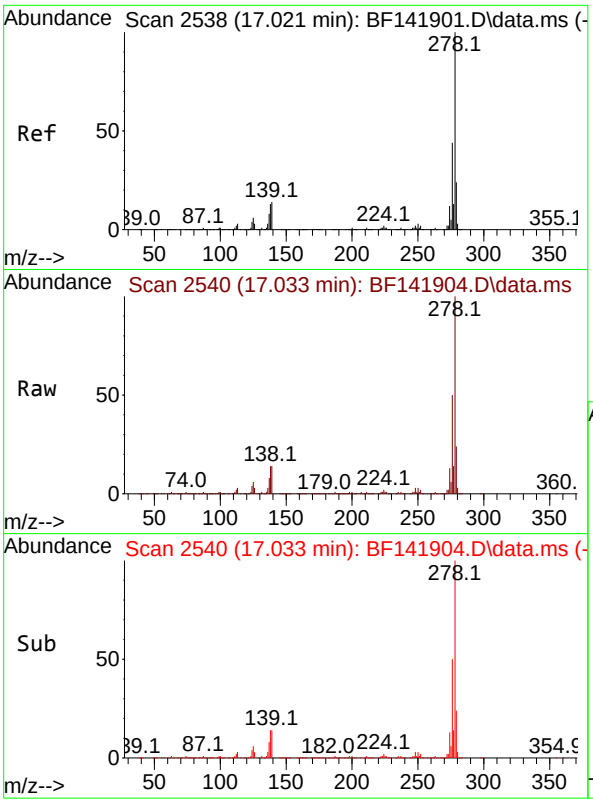


#90
Benzo(a)pyrene
Concen: 82.339 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:252 Resp: 1725632

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	9.7	7.8	11.8

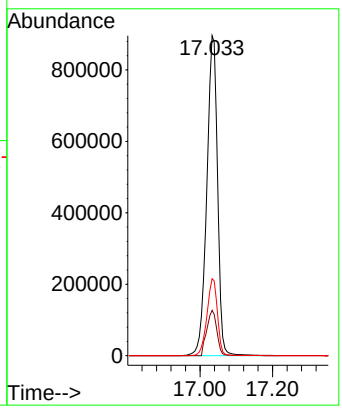




#91
Dibenzo(a,h)anthracene
Concen: 88.098 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:278 Resp: 184677

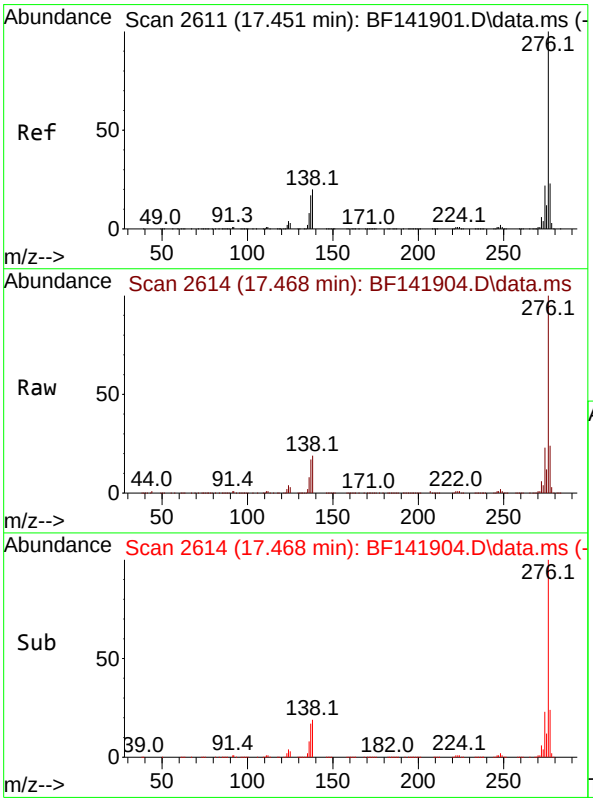
Ion	Ratio	Lower	Upper
278	100		
139	14.1	11.4	17.2
279	24.1	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

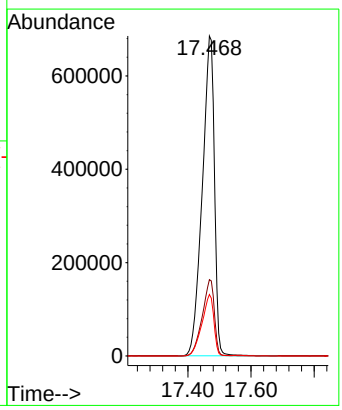
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#92
Benzo(g,h,i)perylene
Concen: 87.950 ng
RT: 17.468 min Scan# 2614
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:276 Resp: 1828662

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.7	28.1
138	19.2	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141905.D
Acq On : 10 Mar 2025 15:20
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Mar 10 15:39:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	215017	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	877329	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	481971	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	811142	20.000	ng		0.00
76) Chrysene-d12	14.045	240	491943	20.000	ng		0.00
86) Perylene-d12	15.509	264	413564	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.492	112	1249601	96.967	ng		0.00
7) Phenol-d6	6.504	99	1594608	97.156	ng		0.00
23) Nitrobenzene-d5	7.445	82	1507471	96.304	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	625035	102.342	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	3064989	96.836	ng		0.00
79) Terphenyl-d14	12.992	244	3394803	102.007	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.675	88	266045	49.258	ng		99
3) Pyridine	3.434	79	646627	48.716	ng		99
4) n-Nitrosodimethylamine	3.398	42	320008	50.718	ng		99
6) Aniline	6.545	93	775854	47.884	ng		99
8) 2-Chlorophenol	6.669	128	696154	48.738	ng		100
9) Benzaldehyde	6.434	77	418049	45.569	ng		99
10) Phenol	6.522	94	829086	47.876	ng		96
11) bis(2-Chloroethyl)ether	6.616	93	631516	48.672	ng		100
12) 1,3-Dichlorobenzene	6.822	146	753352	48.807	ng		99
13) 1,4-Dichlorobenzene	6.898	146	756875	48.465	ng		100
14) 1,2-Dichlorobenzene	7.051	146	706635	48.049	ng		100
15) Benzyl Alcohol	7.022	79	652454	49.113	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	745710	47.687	ng		100
17) 2-Methylphenol	7.128	107	557981	49.153	ng		99
18) Hexachloroethane	7.392	117	290127	49.551	ng		99
19) n-Nitroso-di-n-propyla...	7.298	70	505166	47.887	ng		99
20) 3+4-Methylphenols	7.286	107	704563	48.388	ng	#	86
22) Acetophenone	7.292	105	987577	46.924	ng		97
24) Nitrobenzene	7.463	77	752936	48.514	ng		99
25) Isophorone	7.704	82	1327254	48.027	ng		99
26) 2-Nitrophenol	7.781	139	392772	51.644	ng		100
27) 2,4-Dimethylphenol	7.810	122	510395	48.725	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	826776	47.757	ng		100
29) 2,4-Dichlorophenol	8.016	162	647319	49.793	ng		100
30) 1,2,4-Trichlorobenzene	8.104	180	697274	48.617	ng		99
31) Naphthalene	8.186	128	2196111	48.863	ng		100
32) Benzoic acid	7.939	122	500593	54.676	ng		100
33) 4-Chloroaniline	8.233	127	775699	48.909	ng		99
34) Hexachlorobutadiene	8.304	225	469787	50.376	ng		99
35) Caprolactam	8.616	113	193267	48.891	ng		95
36) 4-Chloro-3-methylphenol	8.710	107	721800	49.925	ng		100
37) 2-Methylnaphthalene	8.875	142	1436485	47.638	ng		100
38) 1-Methylnaphthalene	8.975	142	1357356	46.482	ng		100
40) 1,2,4,5-Tetrachloroben...	9.039	216	719431	48.955	ng		99
41) Hexachlorocyclopentadiene	9.027	237	284968	49.142	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	481782	50.291	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141905.D
Acq On : 10 Mar 2025 15:20
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Mar 10 15:39:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

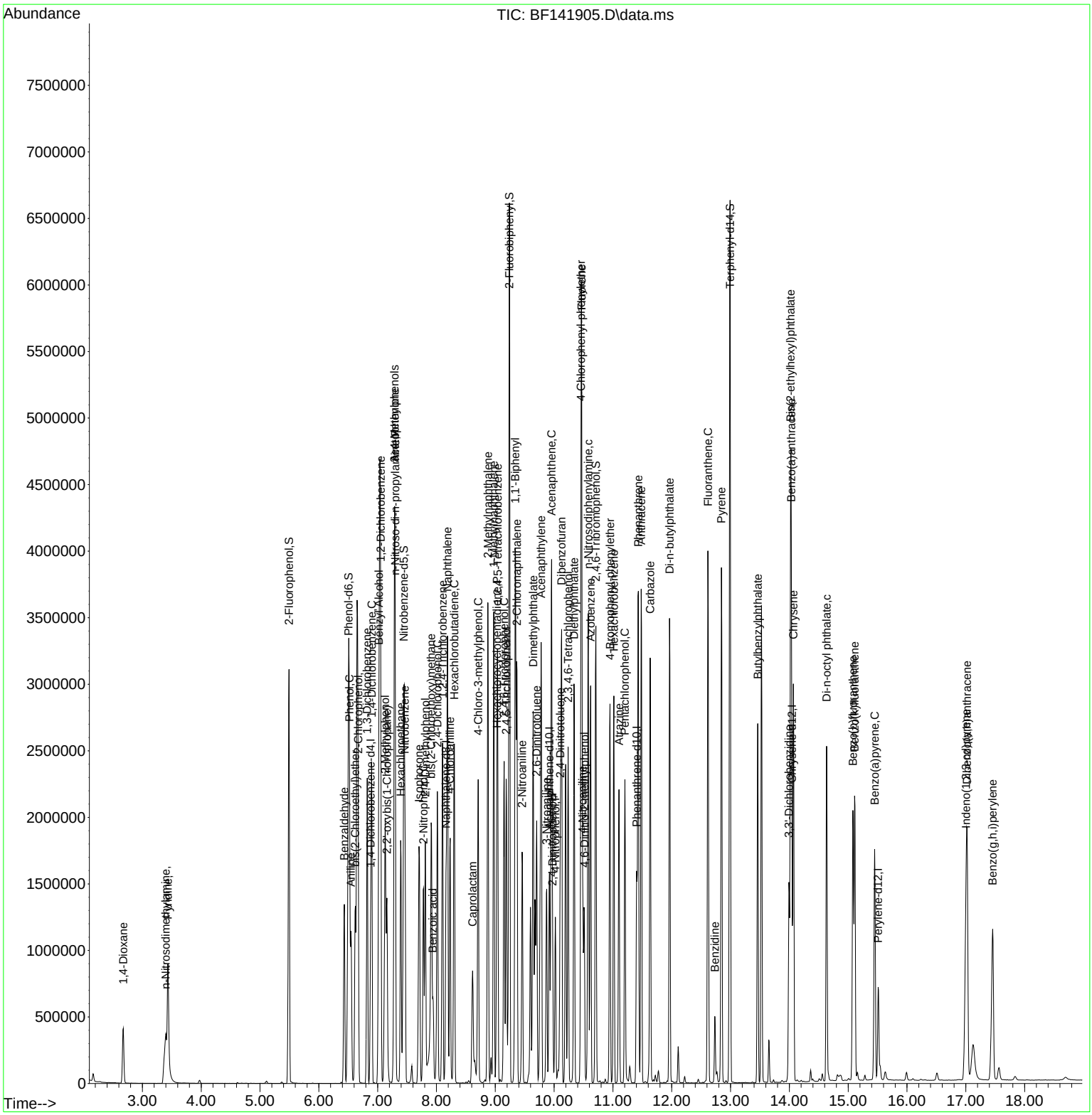
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	482570	49.580	ng		99
46) 1,1'-Biphenyl	9.339	154	1809746	49.526	ng		99
47) 2-Chloronaphthalene	9.369	162	1360528	49.960	ng		99
48) 2-Nitroaniline	9.457	65	429111	54.854	ng		97
49) Acenaphthylene	9.780	152	2005538	49.674	ng		100
50) Dimethylphthalate	9.645	163	1716995	51.273	ng		100
51) 2,6-Dinitrotoluene	9.704	165	370368	53.184	ng		96
52) Acenaphthene	9.957	154	1377901	48.333	ng		98
53) 3-Nitroaniline	9.874	138	340633	47.638	ng		100
54) 2,4-Dinitrophenol	9.975	184	184410	49.104	ng	#	58
55) Dibenzofuran	10.127	168	1936780	47.647	ng		99
56) 4-Nitrophenol	10.022	139	276487	51.474	ng		99
57) 2,4-Dinitrotoluene	10.104	165	461276	50.321	ng		97
58) Fluorene	10.469	166	1497123	47.708	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	438025	49.600	ng		100
60) Diethylphthalate	10.339	149	1635073	48.639	ng		100
61) 4-Chlorophenyl-phenyle...	10.457	204	799744	48.929	ng		99
62) 4-Nitroaniline	10.486	138	346378	49.990	ng		99
63) Azobenzene	10.622	77	1519356	48.653	ng		98
65) 4,6-Dinitro-2-methylph...	10.516	198	262910	54.673	ng		99
66) n-Nitrosodiphenylamine	10.580	169	1293745	49.373	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	532762	52.740	ng		97
68) Hexachlorobenzene	11.016	284	573467	51.359	ng		97
69) Atrazine	11.104	200	418147	65.441	ng		99
70) Pentachlorophenol	11.204	266	365292	53.050	ng		99
71) Phenanthrene	11.433	178	2080633	47.434	ng		100
72) Anthracene	11.480	178	2081490	47.299	ng		99
73) Carbazole	11.633	167	1831424	48.338	ng		99
74) Di-n-butylphthalate	11.963	149	2510447	50.185	ng		99
75) Fluoranthene	12.616	202	2328357	50.564	ng		99
77) Benzidine	12.733	184	270893	38.966	ng		99
78) Pyrene	12.845	202	2308671	54.723	ng		100
80) Butylbenzylphthalate	13.463	149	864849	52.022	ng		99
81) Benzo(a)anthracene	14.033	228	1592035	49.192	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	449408	48.044	ng		99
83) Chrysene	14.068	228	1465389	50.404	ng		100
84) Bis(2-ethylhexyl)phtha...	14.021	149	1203021	52.747	ng		99
85) Di-n-octyl phthalate	14.633	149	1692206	53.307	ng		100
87) Indeno(1,2,3-cd)pyrene	17.003	276	1366974	50.969	ng		99
88) Benzo(b)fluoranthene	15.080	252	1392083	49.625	ng		99
89) Benzo(k)fluoranthene	15.109	252	1167351	47.638	ng		100
90) Benzo(a)pyrene	15.451	252	1119256	50.591	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	1131875	51.149	ng		99
92) Benzo(g,h,i)perylene	17.456	276	1099760	50.106	ng		99

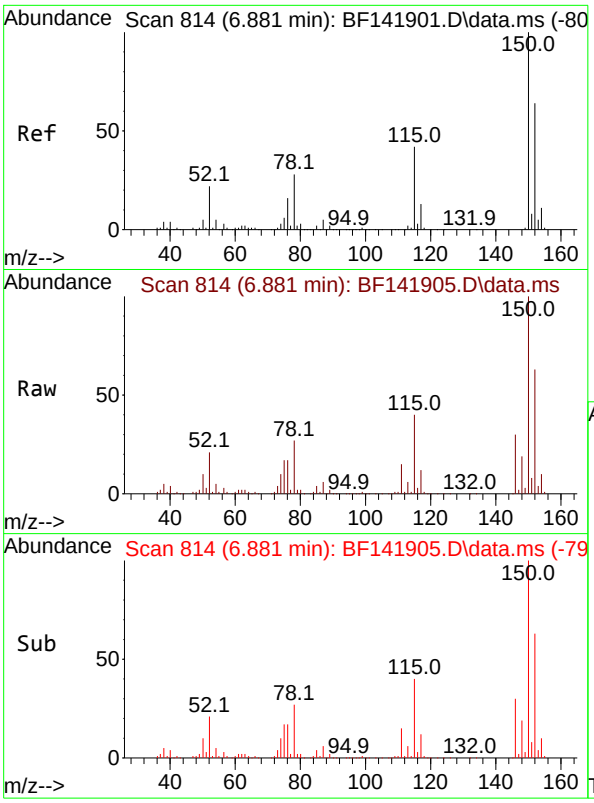
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141905.D
Acq On : 10 Mar 2025 15:20
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Mar 10 15:39:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration



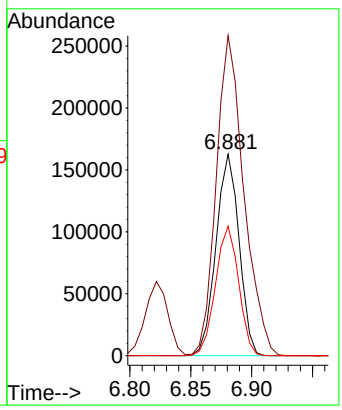


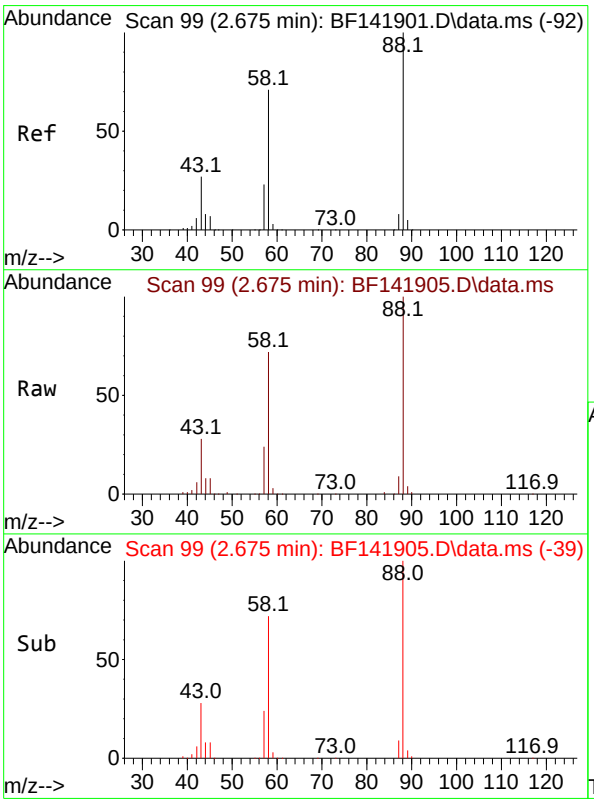
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 215017

Ion	Ratio	Lower	Upper
152	100		
150	158.8	127.4	191.2
115	64.3	51.9	77.9

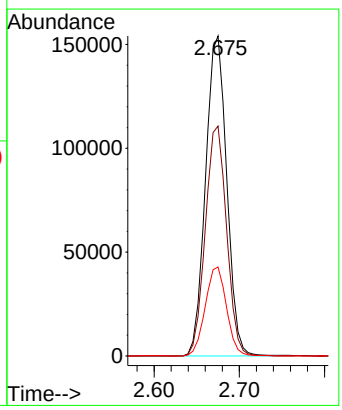


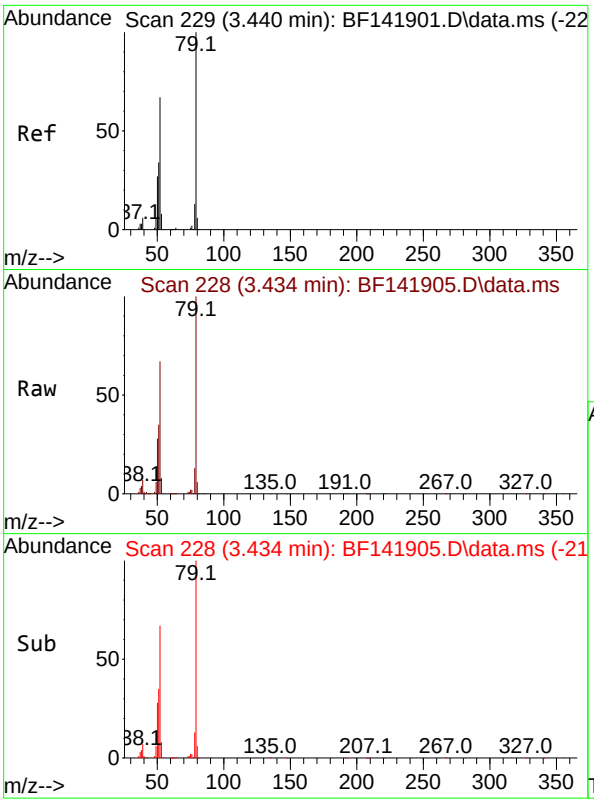


#2
1,4-Dioxane
Concen: 49.258 ng
RT: 2.675 min Scan# 99
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion: 88 Resp: 266045

Ion	Ratio	Lower	Upper
88	100		
58	72.1	57.4	86.2
43	27.9	21.5	32.3



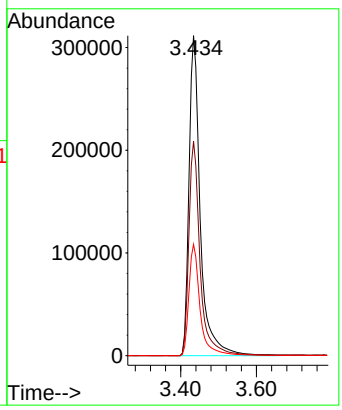


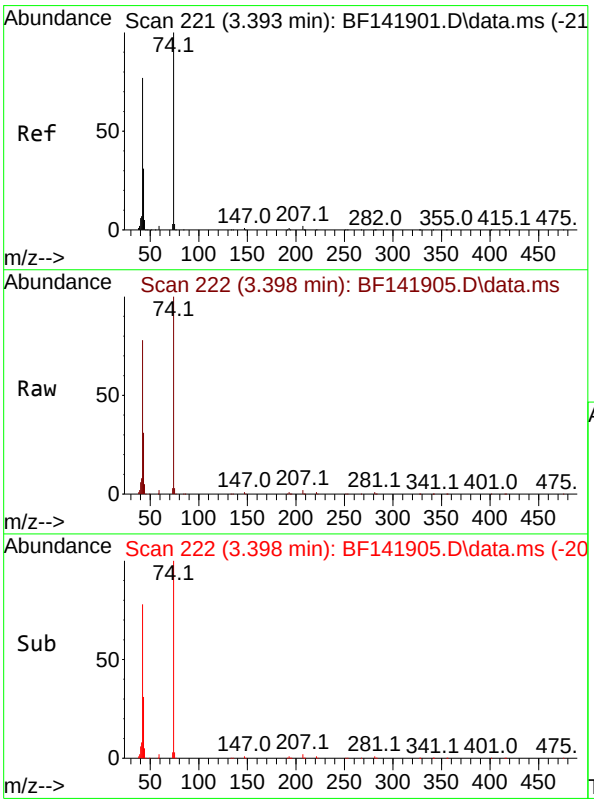
#3
Pyridine
Concen: 48.716 ng
RT: 3.434 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 646627

Ion	Ratio	Lower	Upper
79	100		
52	67.0	53.3	79.9
51	34.8	27.6	41.4

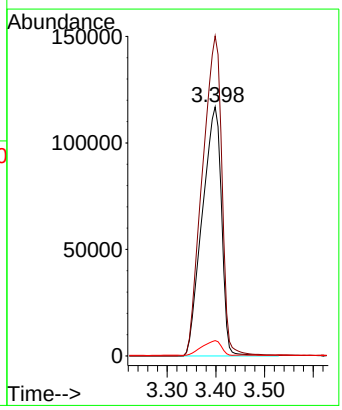


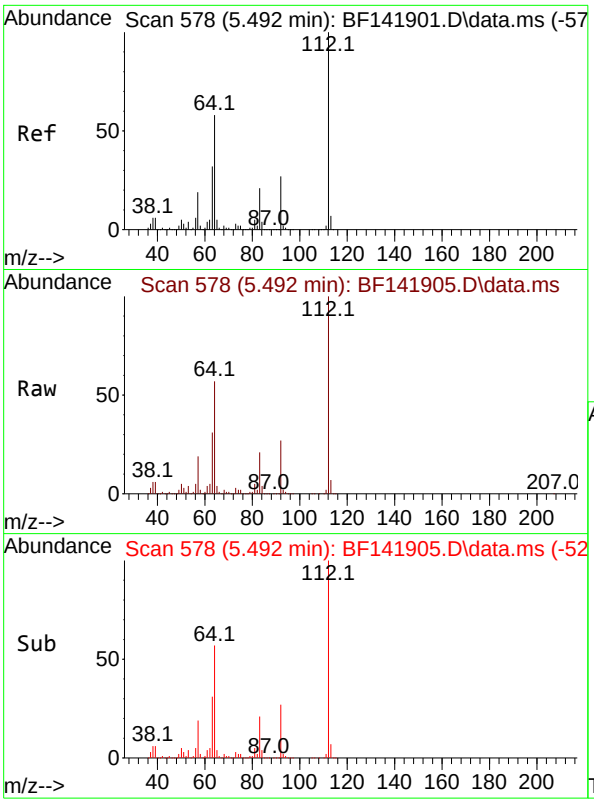


#4
n-Nitrosodimethylamine
Concen: 50.718 ng
RT: 3.398 min Scan# 222
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion: 42 Resp: 320008

Ion	Ratio	Lower	Upper
42	100		
74	128.4	103.4	155.0
44	6.2	5.0	7.4



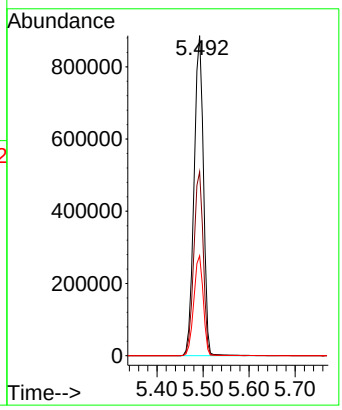


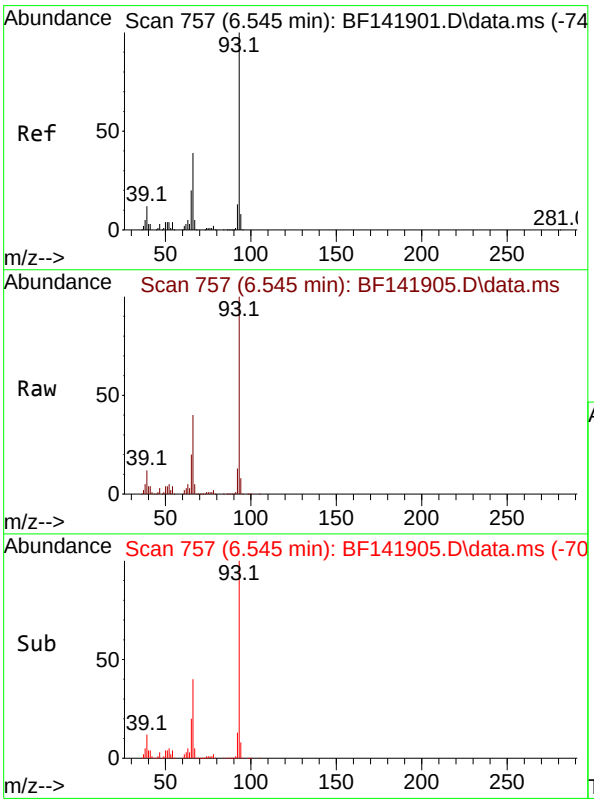
#5
2-Fluorophenol
Concen: 96.967 ng
RT: 5.492 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 1249601

Ion	Ratio	Lower	Upper
112	100		
64	57.5	46.5	69.7
63	31.2	25.4	38.2

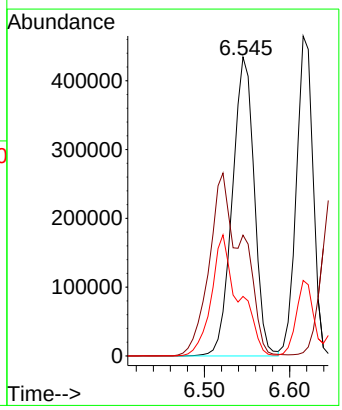


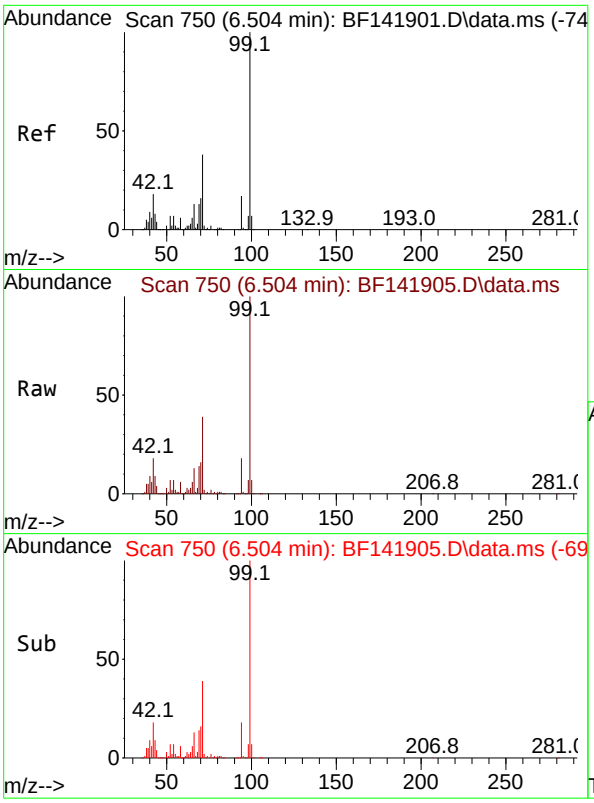


#6
Aniline
Concen: 47.884 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion: 93 Resp: 775854

Ion	Ratio	Lower	Upper
93	100		
66	40.4	31.9	47.9
65	19.9	15.8	23.6



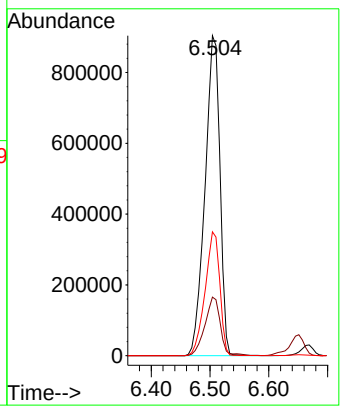


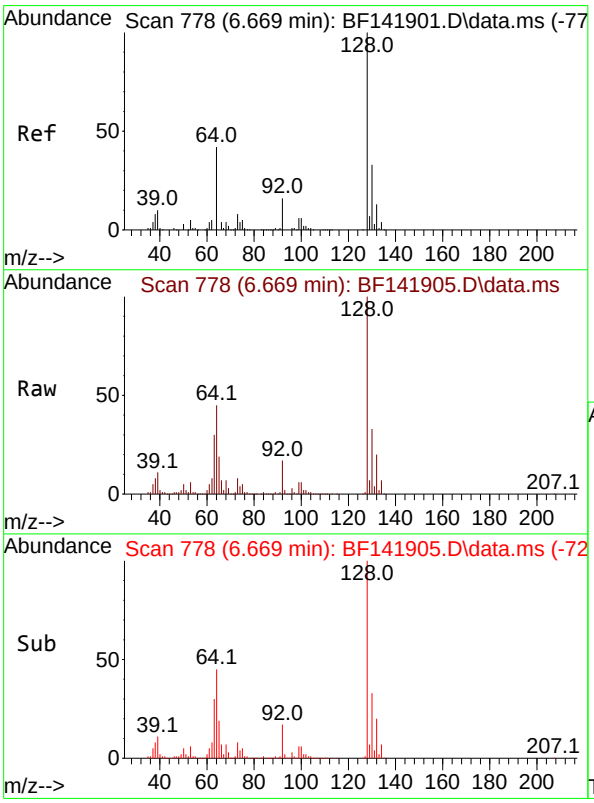
#7
Phenol-d6
Concen: 97.156 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 1594608

Ion	Ratio	Lower	Upper
99	100		
42	18.3	14.6	21.8
71	38.7	30.8	46.2

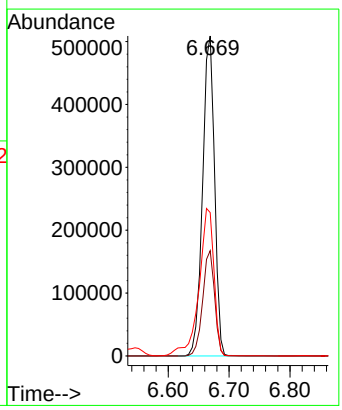


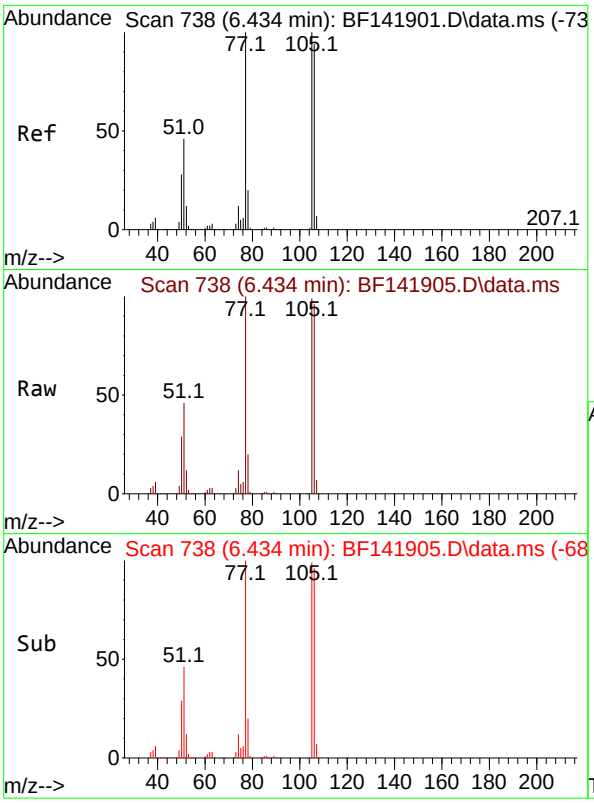


#8
2-Chlorophenol
Concen: 48.738 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:128 Resp: 696154

Ion	Ratio	Lower	Upper
128	100		
130	32.9	12.8	52.8
64	44.8	24.4	64.4



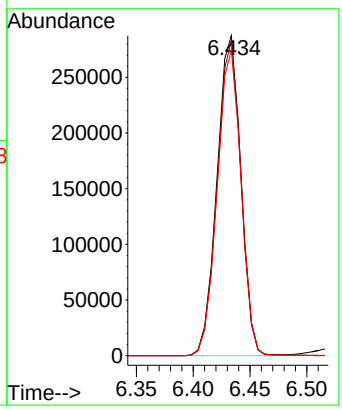


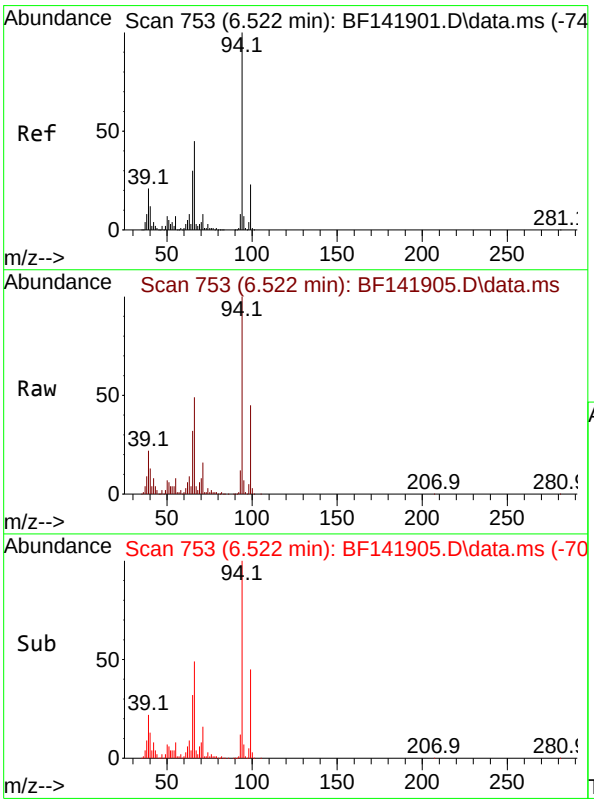
#9
Benzaldehyde
Concen: 45.569 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 418049

Ion	Ratio	Lower	Upper
77	100		
105	98.6	80.0	120.0
106	95.5	74.5	114.5

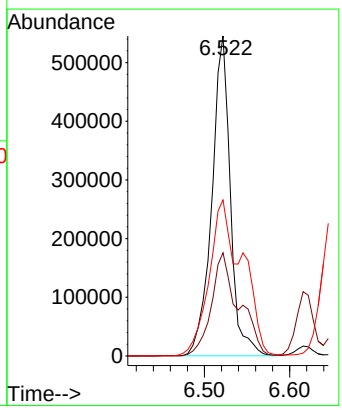


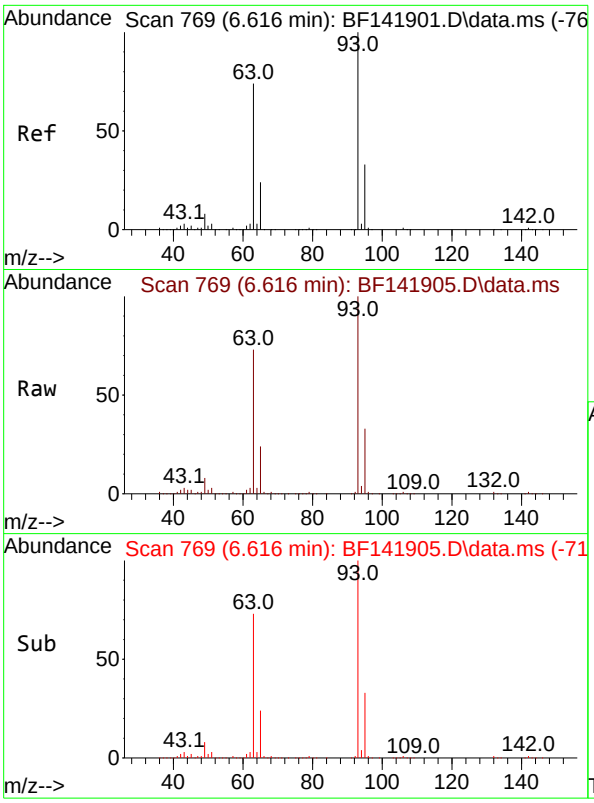


#10
Phenol
Concen: 47.876 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion: 94 Resp: 829086

Ion	Ratio	Lower	Upper
94	100		
65	32.3	10.5	50.5
66	48.7	25.8	65.8



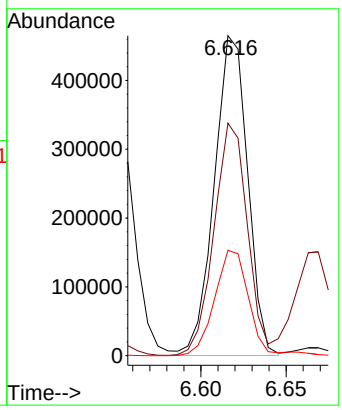


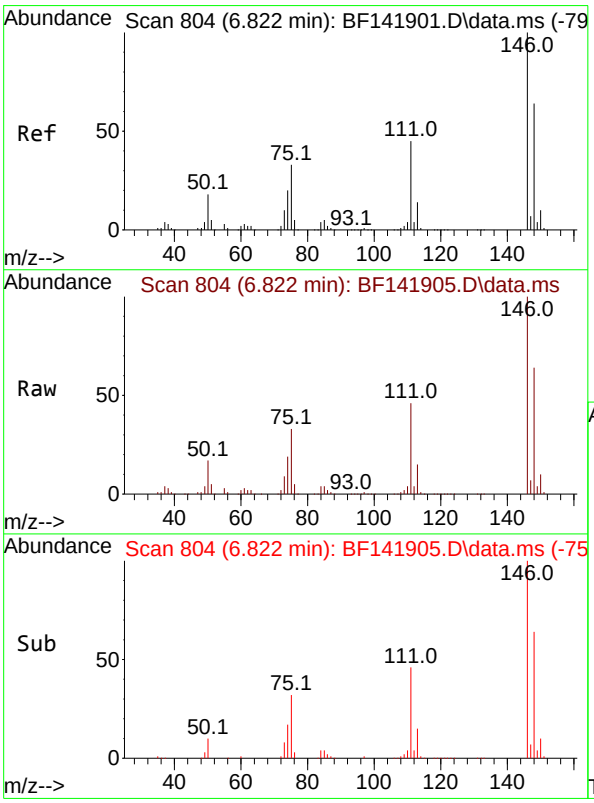
#11
bis(2-Chloroethyl)ether
Concen: 48.672 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 631516

Ion	Ratio	Lower	Upper
93	100		
63	72.7	53.0	93.0
95	33.0	12.9	52.9

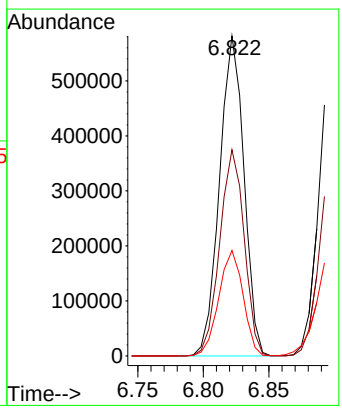


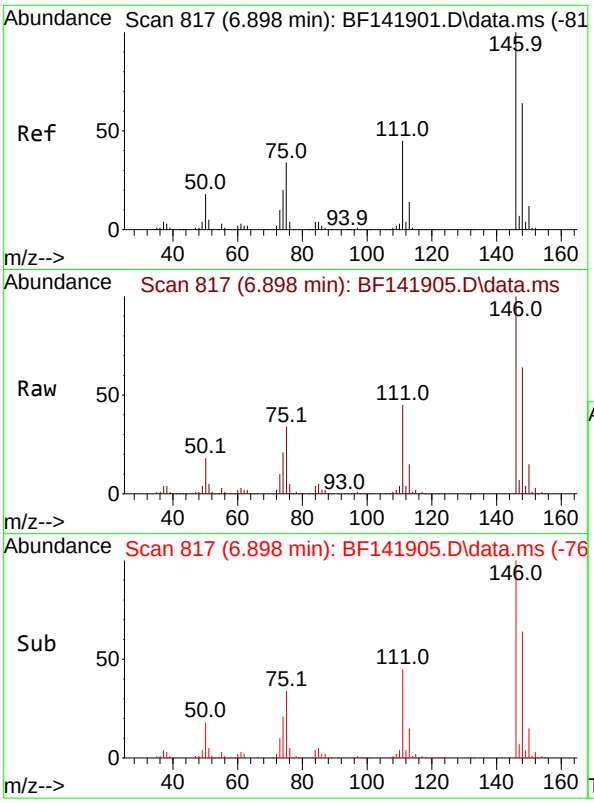


#12
1,3-Dichlorobenzene
Concen: 48.807 ng
RT: 6.822 min Scan# 804
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:146 Resp: 753352

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.3	76.9
75	32.9	26.6	40.0



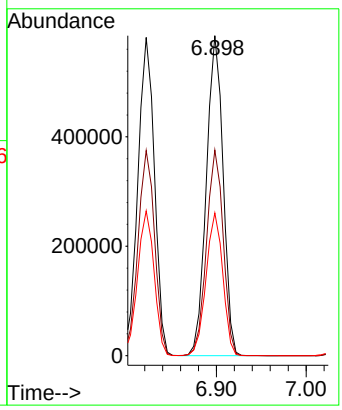


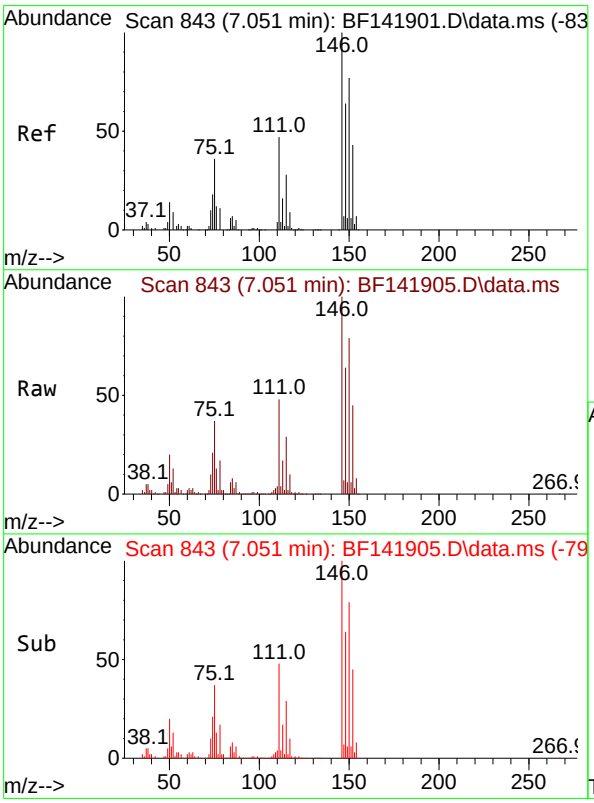
#13
1,4-Dichlorobenzene
Concen: 48.465 ng
RT: 6.898 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 756875

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
111	44.6	35.7	53.5

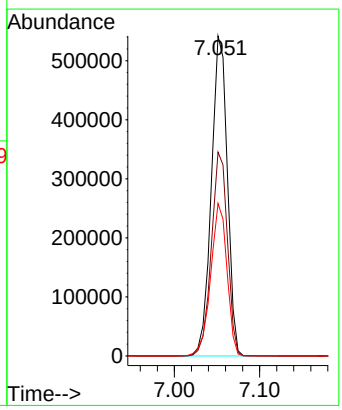


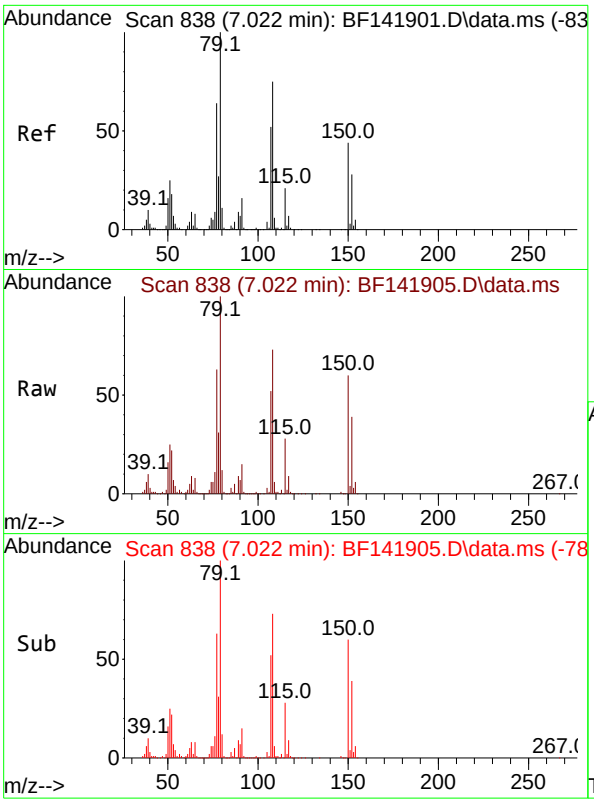


#14
1,2-Dichlorobenzene
Concen: 48.049 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:146 Resp: 706635

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.8	76.2
111	47.6	38.0	57.0



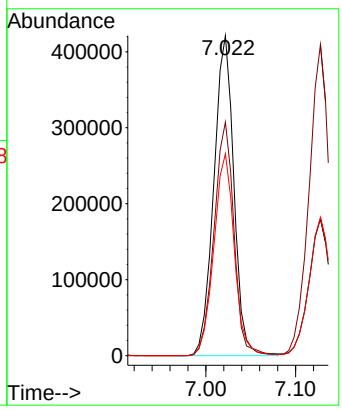


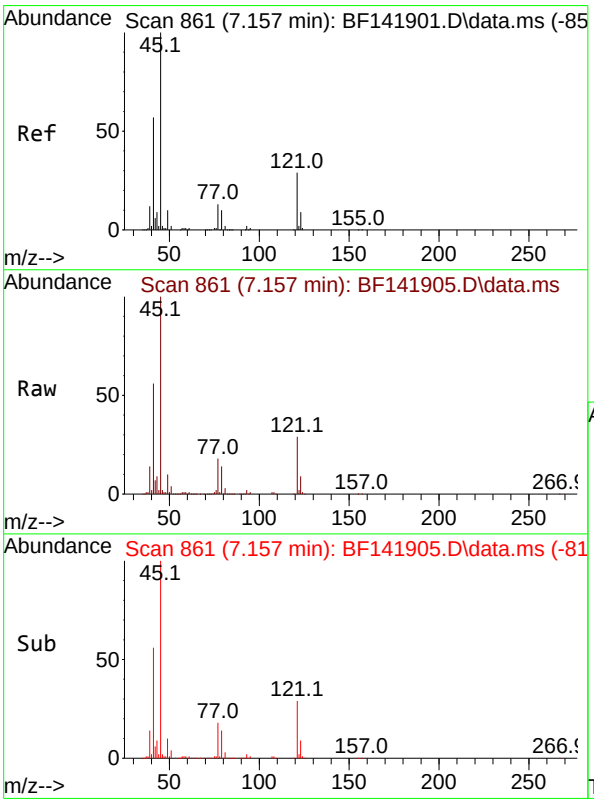
#15
Benzyl Alcohol
Concen: 49.113 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 652454

Ion	Ratio	Lower	Upper
79	100		
108	73.0	59.7	89.5
77	63.1	51.0	76.6

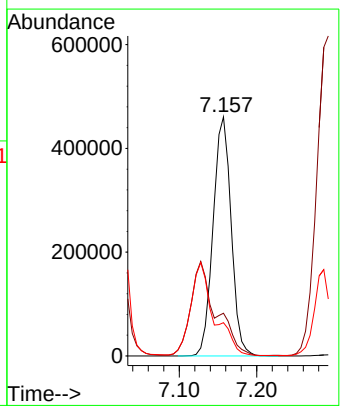


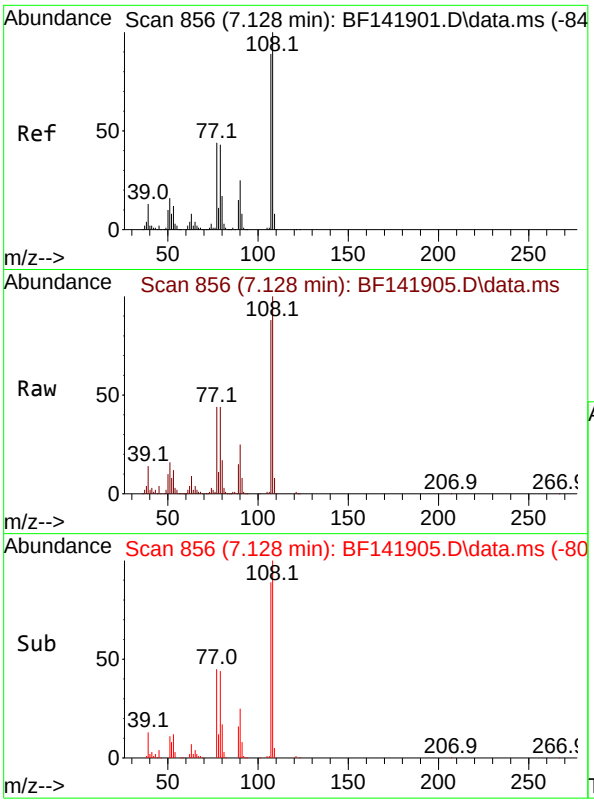


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.687 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion: 45 Resp: 745710

Ion	Ratio	Lower	Upper
45	100		
77	17.9	0.0	37.8
79	14.0	0.0	34.2



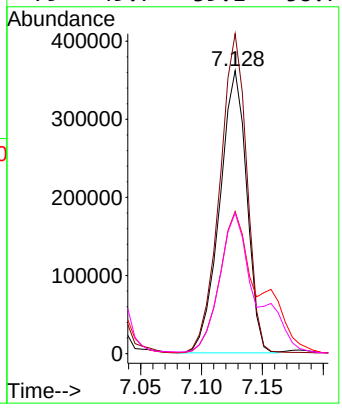


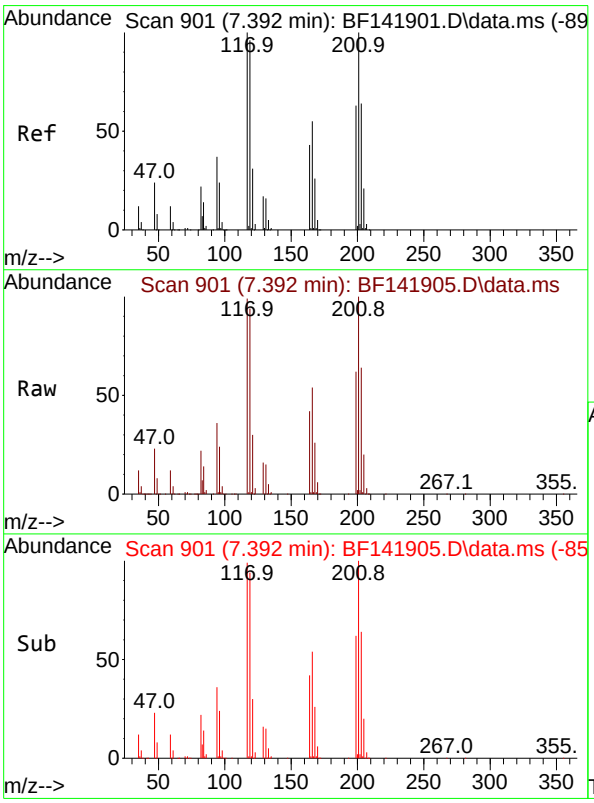
#17
2-Methylphenol
Concen: 49.153 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 557981

Ion	Ratio	Lower	Upper
107	100		
108	113.1	90.2	135.2
77	50.3	39.6	59.4
79	49.7	39.1	58.7

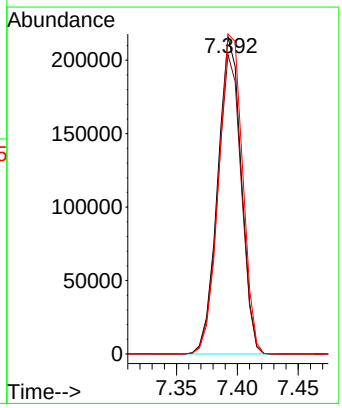


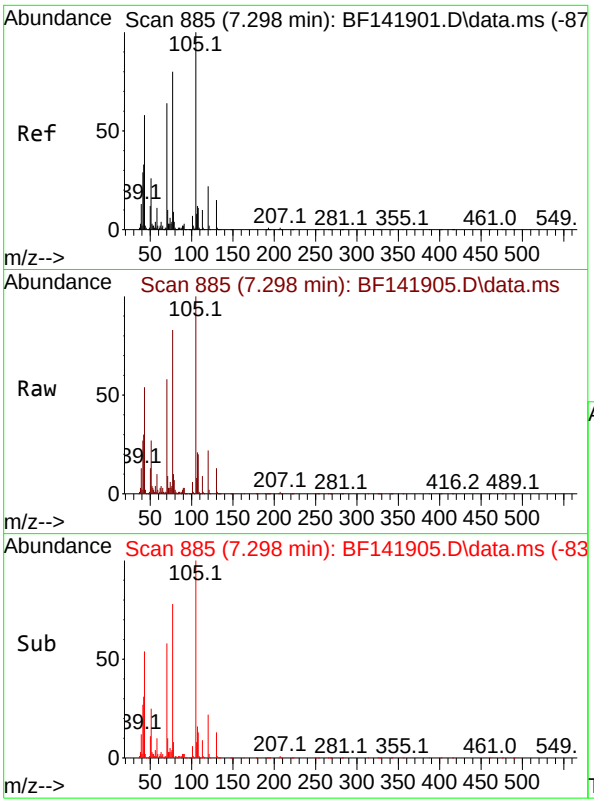


#18
Hexachloroethane
Concen: 49.551 ng
RT: 7.392 min Scan# 901
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:117 Resp: 290127

Ion	Ratio	Lower	Upper
117	100		
119	94.5	76.9	115.3
201	100.9	79.9	119.9



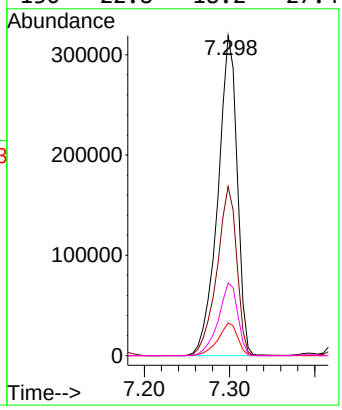


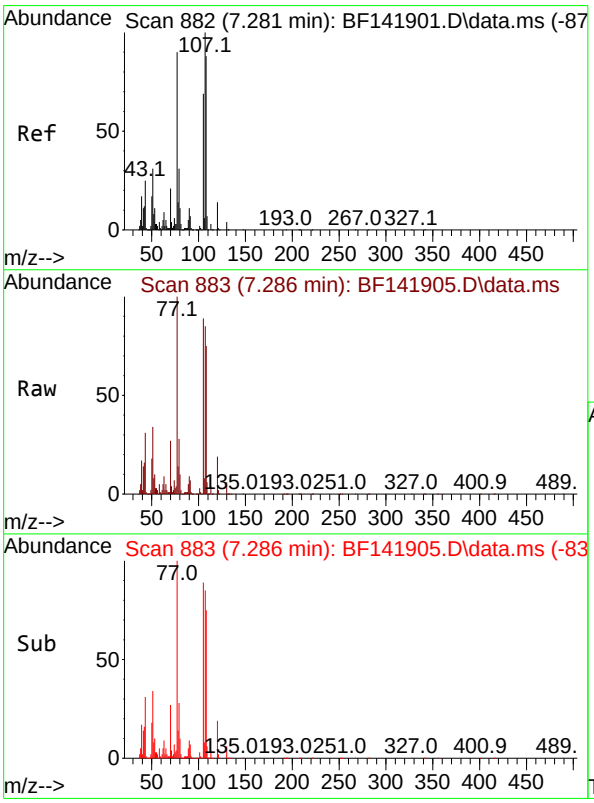
#19
n-Nitroso-di-n-propylamine
Concen: 47.887 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 505166

Ion	Ratio	Lower	Upper
70	100		
42	52.8	41.4	62.0
101	10.2	8.2	12.2
130	22.8	18.2	27.4

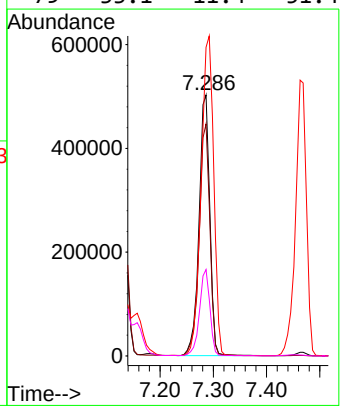


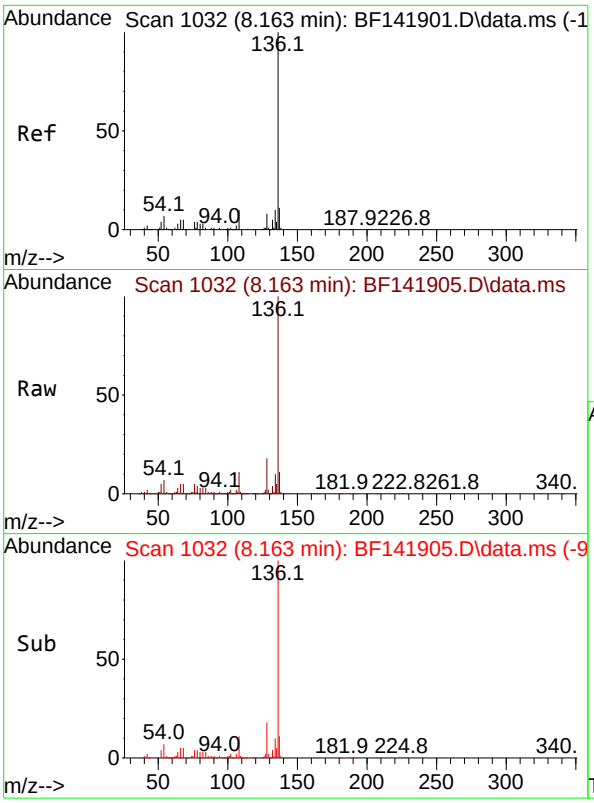


#20
3+4-Methylphenols
Concen: 48.388 ng
RT: 7.286 min Scan# 883
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:107 Resp: 704563

Ion	Ratio	Lower	Upper
107	100		
108	88.9	68.4	108.4
77	118.3	69.7	109.7#
79	33.1	11.4	51.4



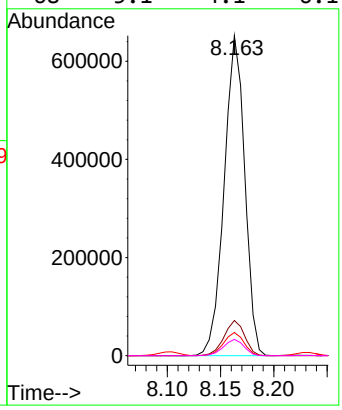


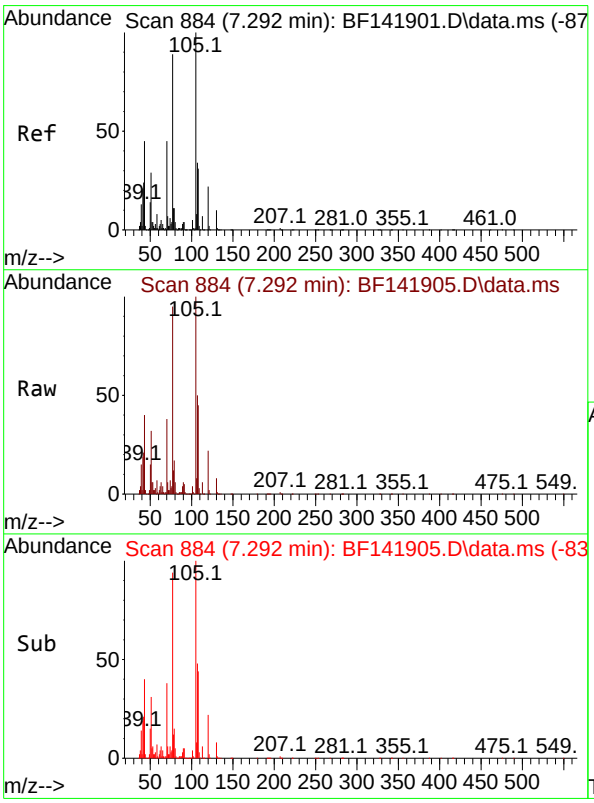
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 877329

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	7.2	5.8	8.8
68	5.1	4.1	6.1

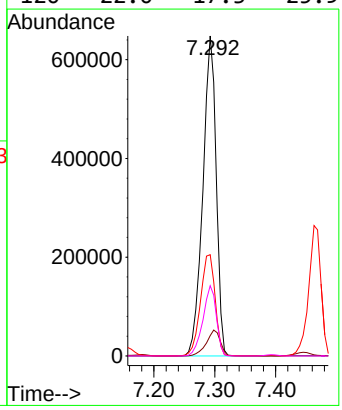


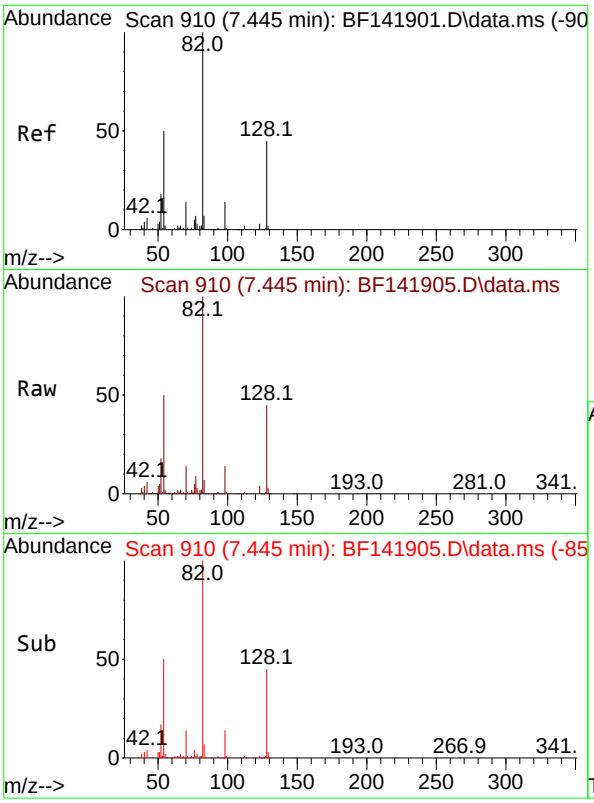


#22
Acetophenone
Concen: 46.924 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:105 Resp: 987577

Ion	Ratio	Lower	Upper
105	100		
71	6.3	5.8	8.8
51	31.7	23.4	35.0
120	22.0	17.3	25.9



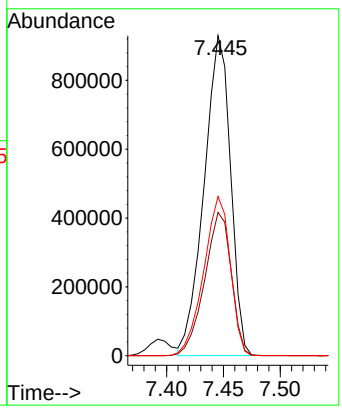


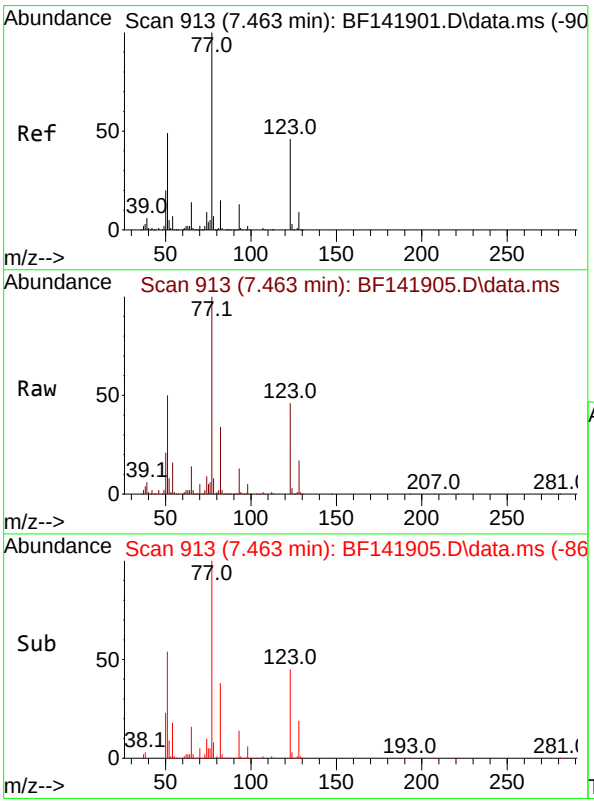
#23
Nitrobenzene-d5
Concen: 96.304 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1507471

Ion	Ratio	Lower	Upper
82	100		
128	44.8	36.0	54.0
54	49.8	39.6	59.4

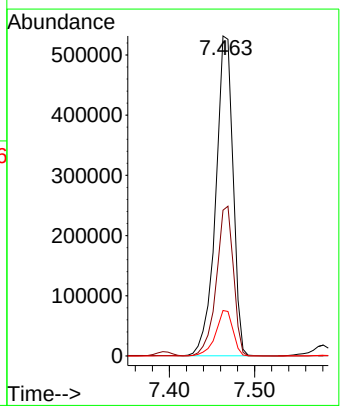


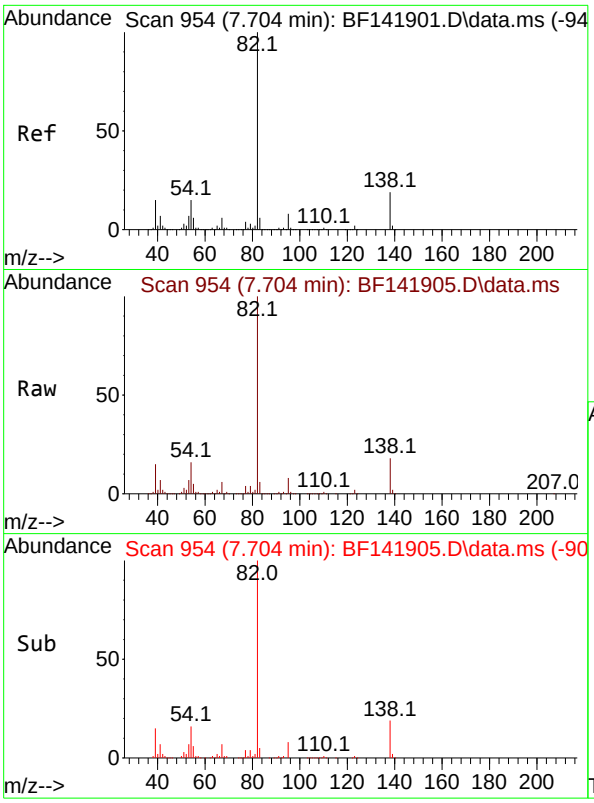


#24
Nitrobenzene
Concen: 48.514 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion: 77 Resp: 752936

Ion	Ratio	Lower	Upper
77	100		
123	45.6	37.0	55.4
65	14.2	11.3	16.9



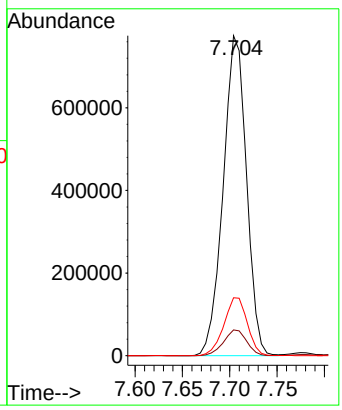


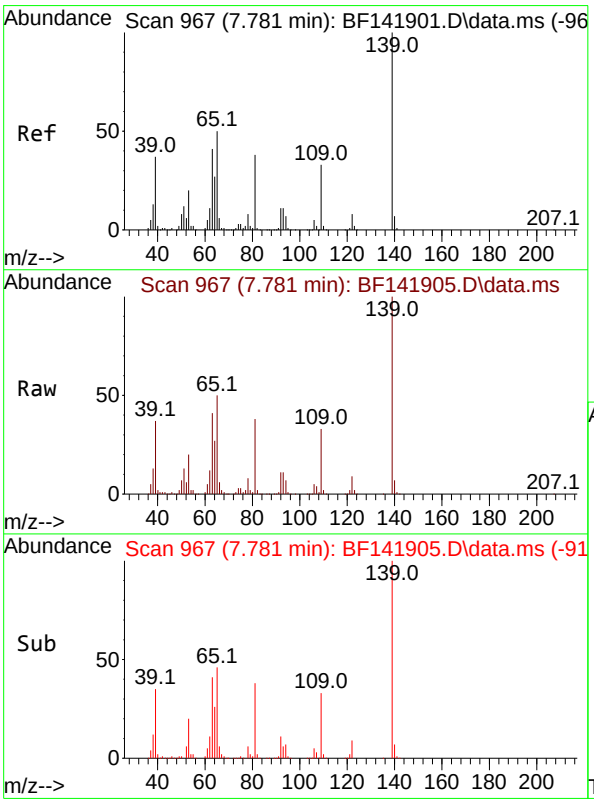
#25
Isophorone
Concen: 48.027 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1327254

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.4	9.6
138	18.1	14.9	22.3

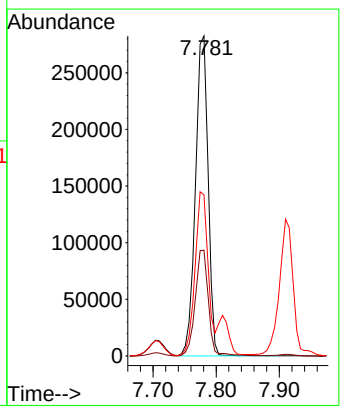


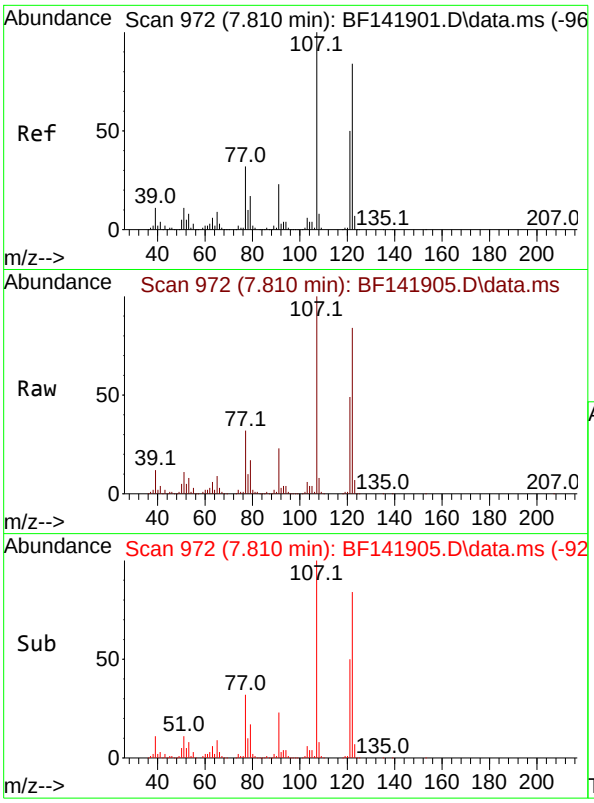


#26
2-Nitrophenol
Concen: 51.644 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:139 Resp: 392772

Ion	Ratio	Lower	Upper
139	100		
109	33.1	26.5	39.7
65	50.4	40.3	60.5



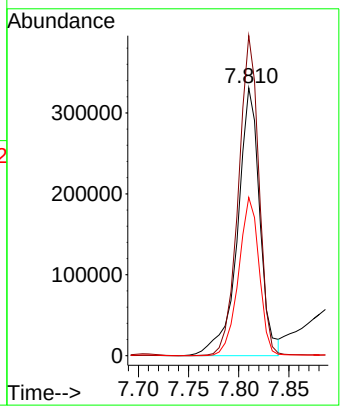


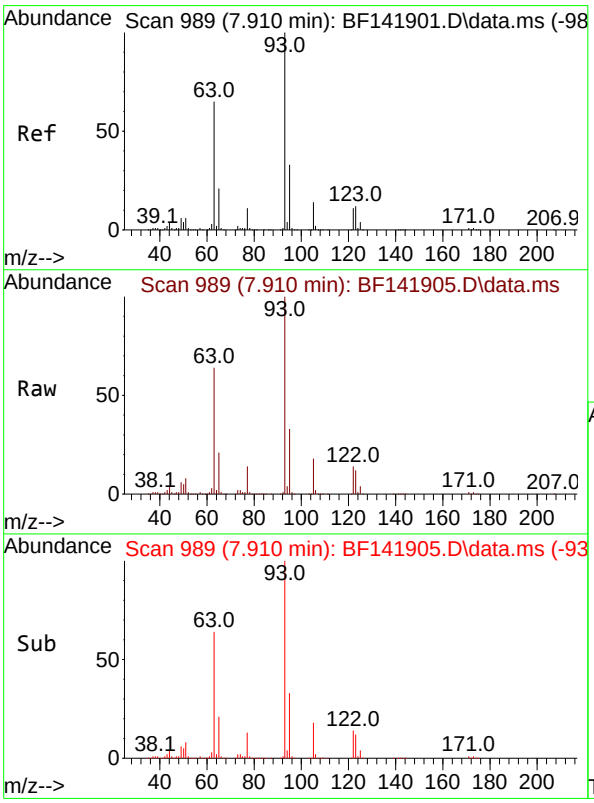
#27
2,4-Dimethylphenol
Concen: 48.725 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 510395

Ion	Ratio	Lower	Upper
122	100		
107	119.4	94.8	142.2
121	59.1	47.8	71.6

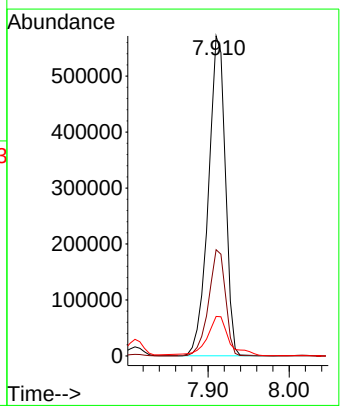


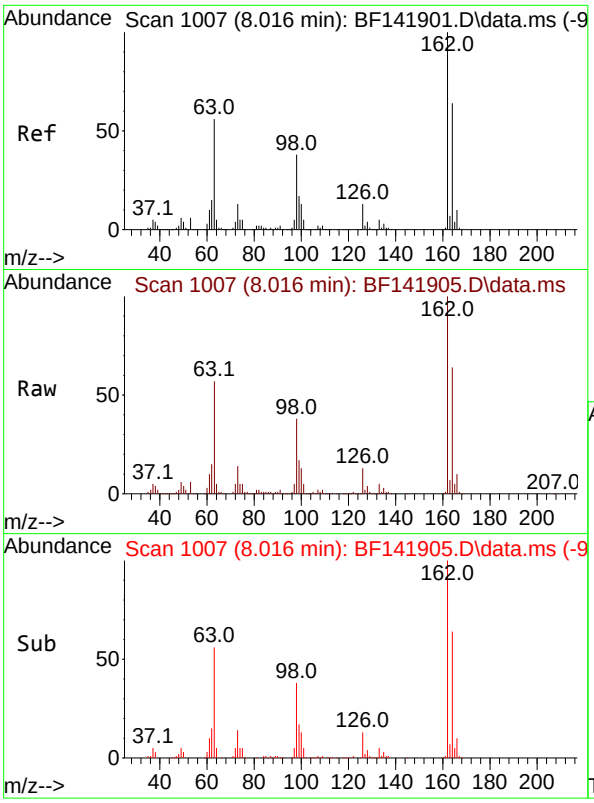


#28
bis(2-Chloroethoxy)methane
Concen: 47.757 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion: 93 Resp: 826776

Ion	Ratio	Lower	Upper
93	100		
95	33.2	26.6	40.0
123	12.4	10.2	15.4



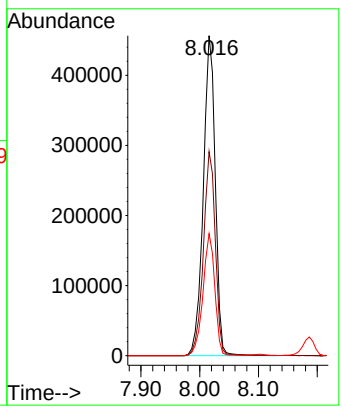


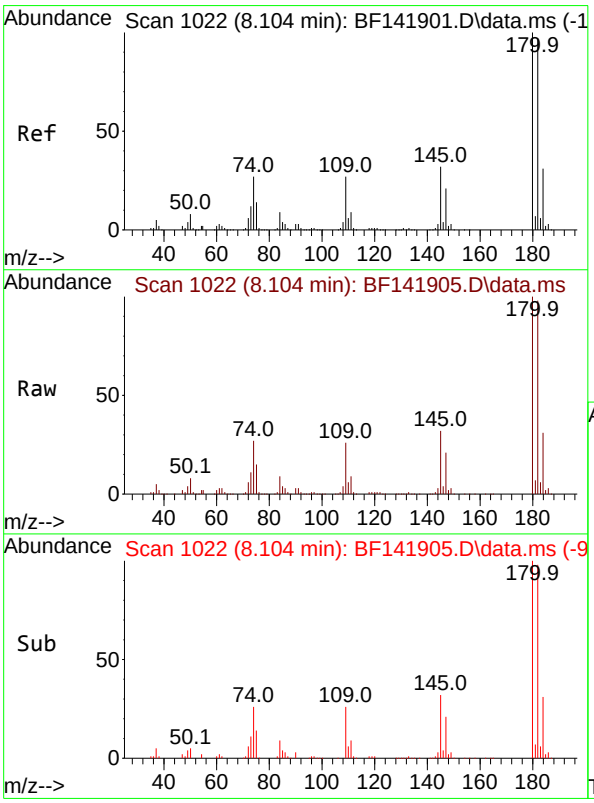
#29
2,4-Dichlorophenol
Concen: 49.793 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 647319

Ion	Ratio	Lower	Upper
162	100		
164	63.8	43.8	83.8
98	38.1	18.1	58.1

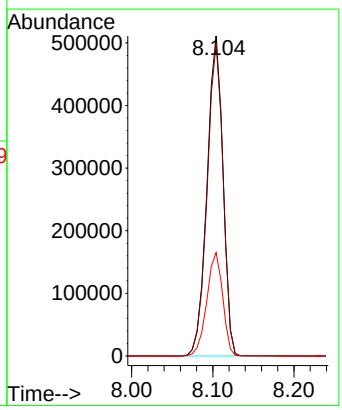


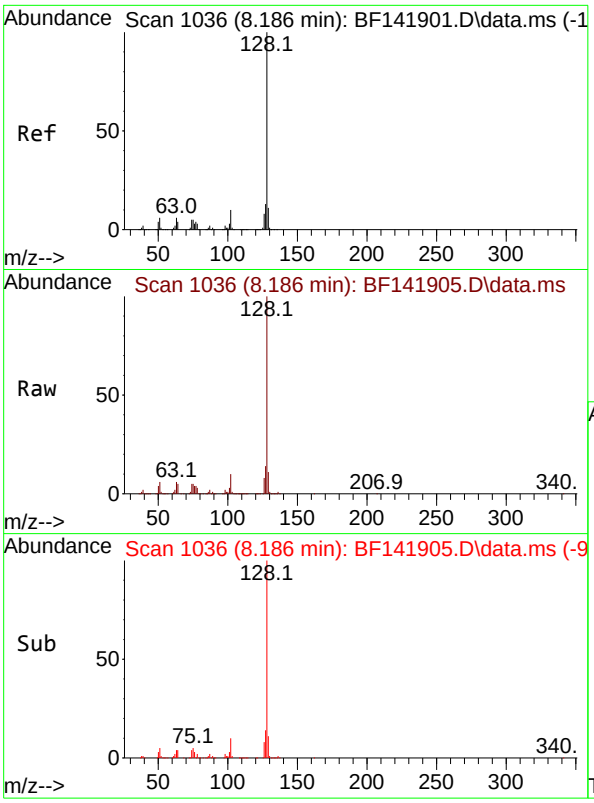


#30
1,2,4-Trichlorobenzene
Concen: 48.617 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:180 Resp: 697274

Ion	Ratio	Lower	Upper
180	100		
182	97.8	77.5	116.3
145	32.3	25.8	38.6



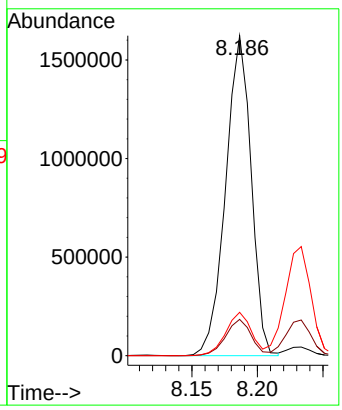


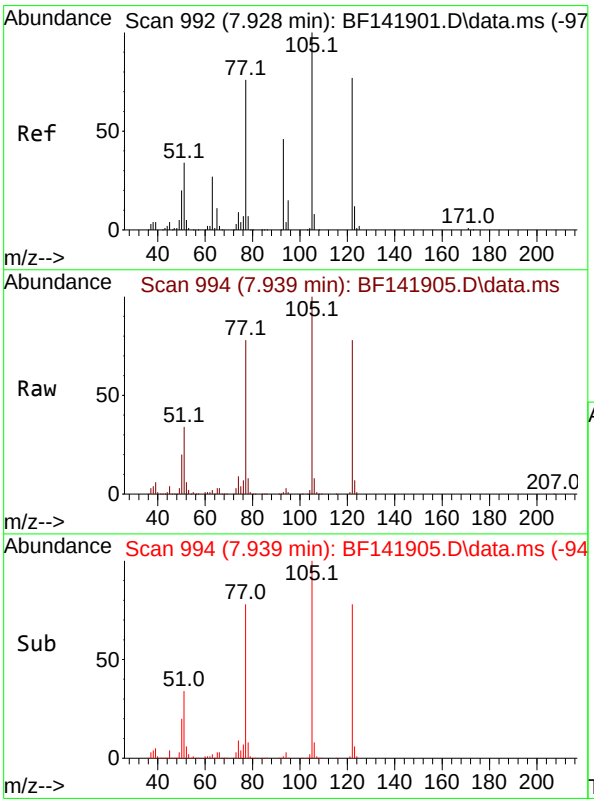
#31
Naphthalene
Concen: 48.863 ng
RT: 8.186 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 2196111

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	13.5	10.8	16.2

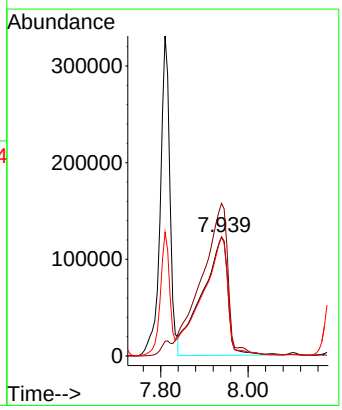


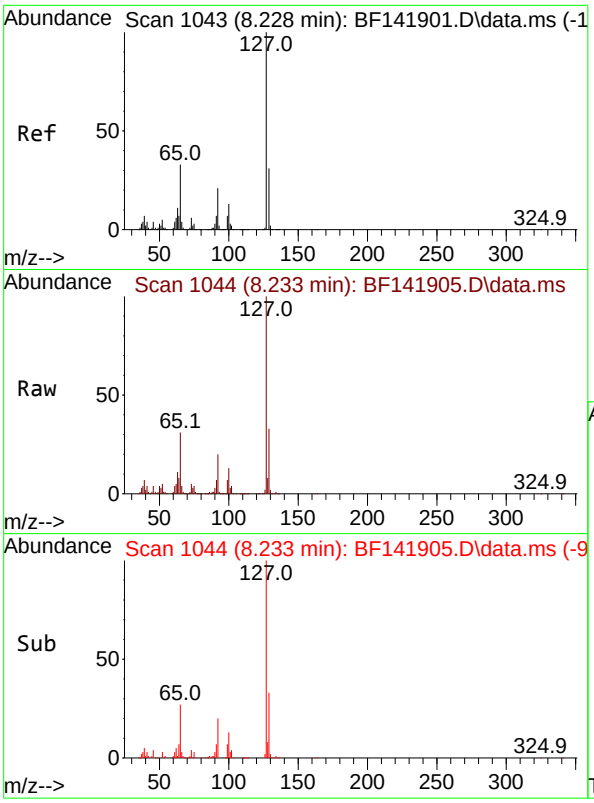


#32
Benzoic acid
Concen: 54.676 ng
RT: 7.939 min Scan# 994
Delta R.T. 0.011 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:122 Resp: 500593

Ion	Ratio	Lower	Upper
122	100		
105	128.0	107.9	147.9
77	99.6	79.0	119.0



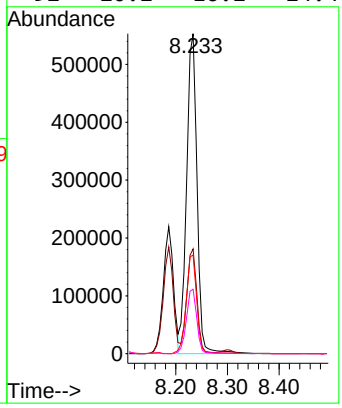


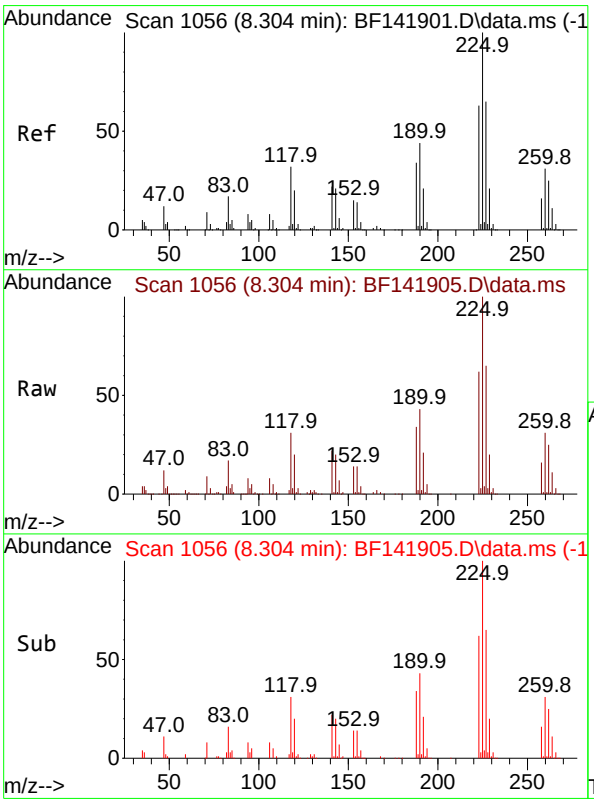
#33
4-Chloroaniline
Concen: 48.909 ng
RT: 8.233 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 775699

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.2	39.4
65	30.9	25.4	38.2
92	20.2	16.2	24.4

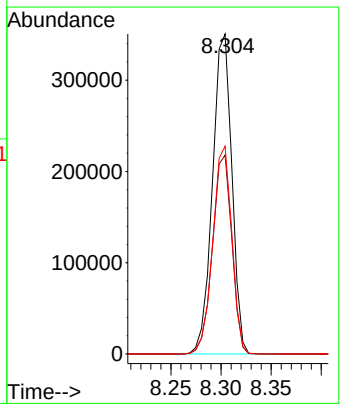


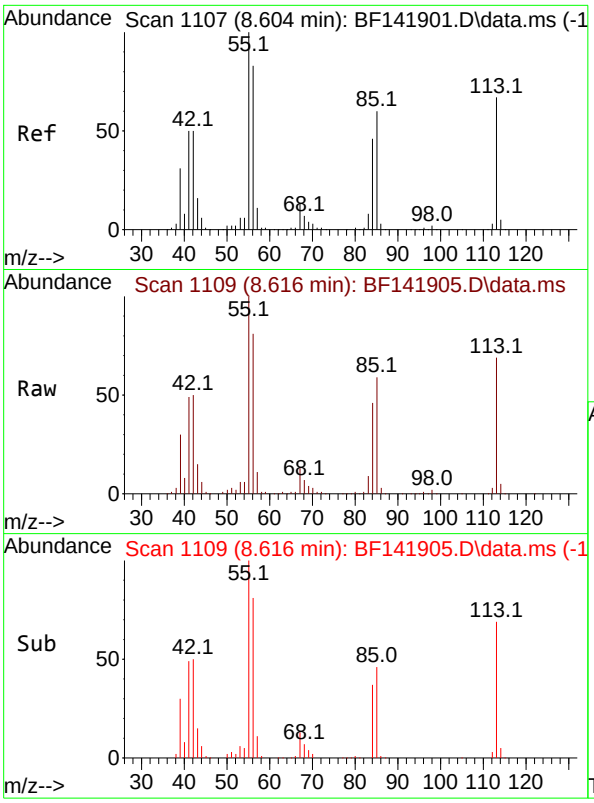


#34
Hexachlorobutadiene
Concen: 50.376 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:225 Resp: 469787

Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.6	75.8
227	64.9	52.2	78.2



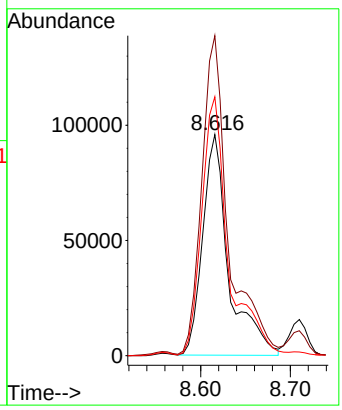


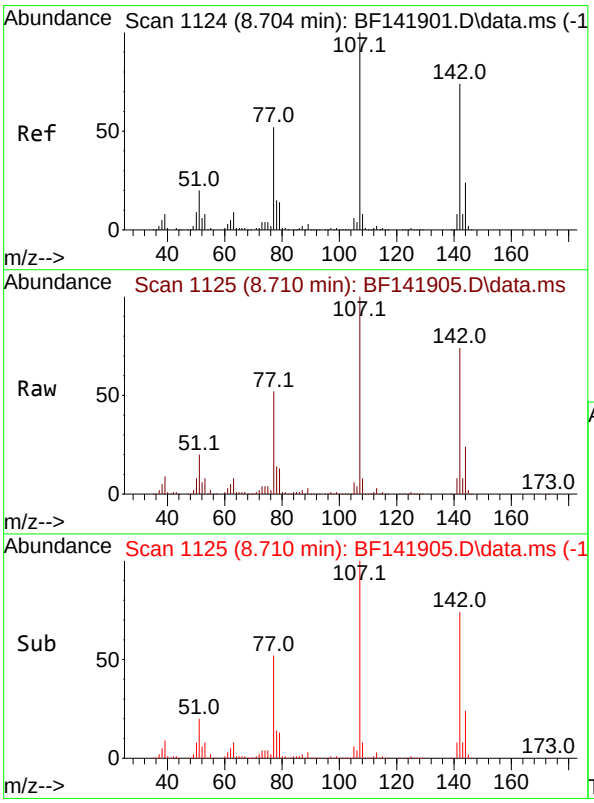
#35
Caprolactam
Concen: 48.891 ng
RT: 8.616 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 193267

Ion	Ratio	Lower	Upper
113	100		
55	144.7	129.6	169.6
56	117.1	104.0	144.0

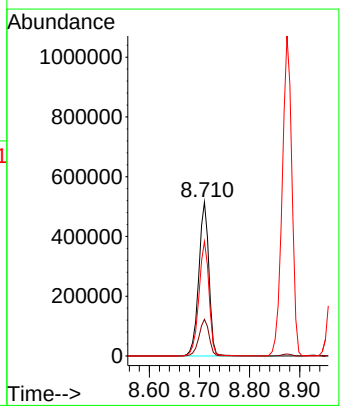


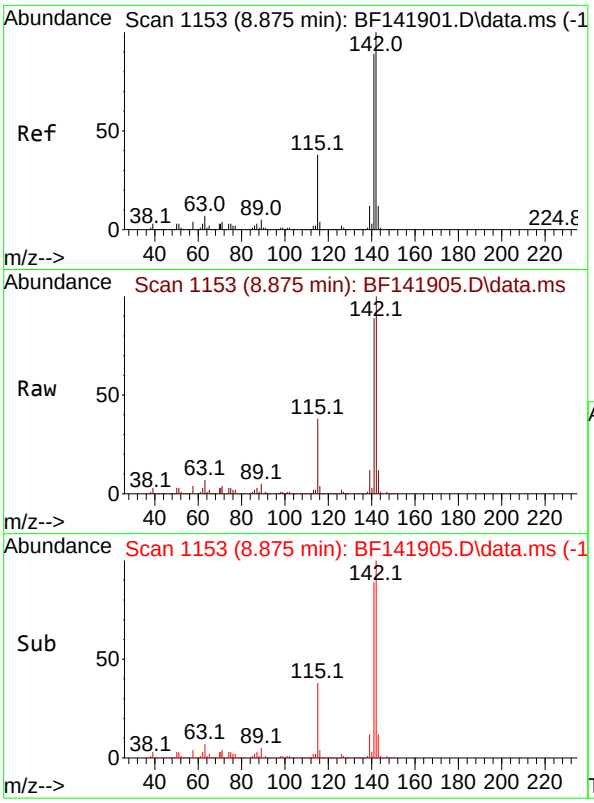


#36
4-Chloro-3-methylphenol
Concen: 49.925 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:107 Resp: 721800

Ion	Ratio	Lower	Upper
107	100		
144	23.8	19.0	28.6
142	74.4	59.2	88.8



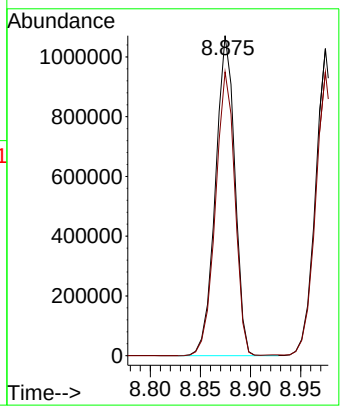


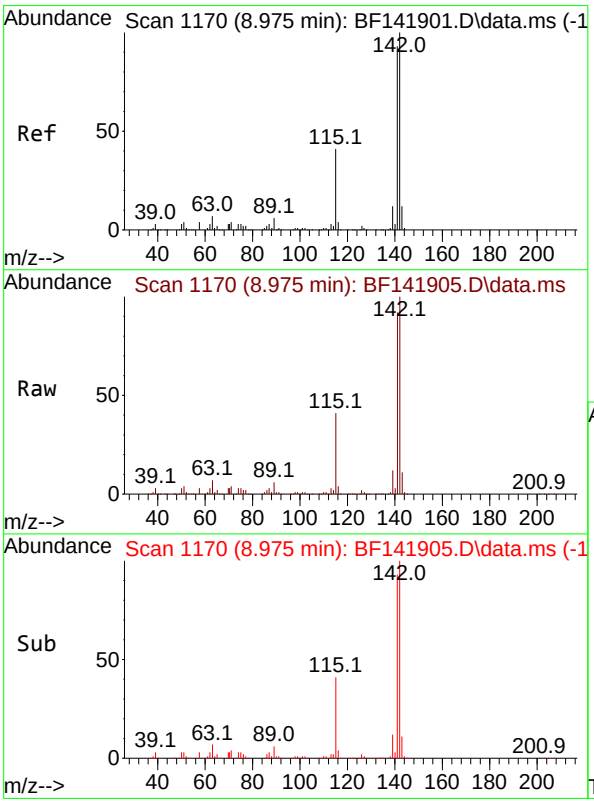
#37
2-Methylnaphthalene
Concen: 47.638 ng
RT: 8.875 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 1436485

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.2	106.8

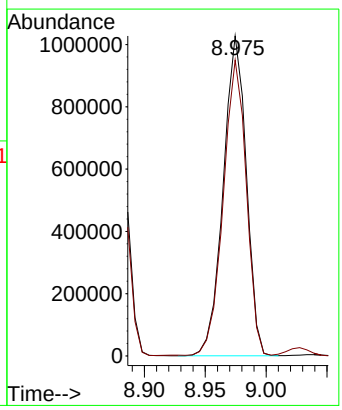


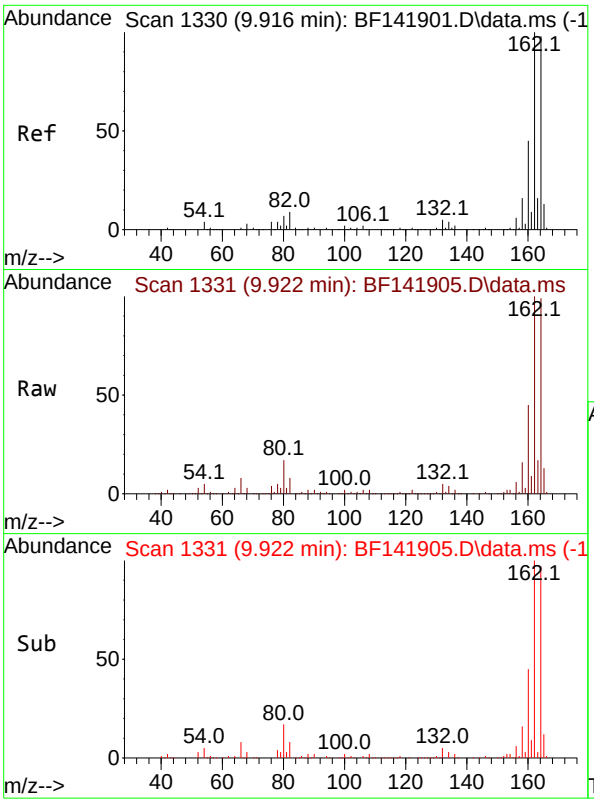


#38
1-Methylnaphthalene
Concen: 46.482 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:142 Resp: 1357356

Ion	Ratio	Lower	Upper
142	100		
141	92.4	74.2	111.4



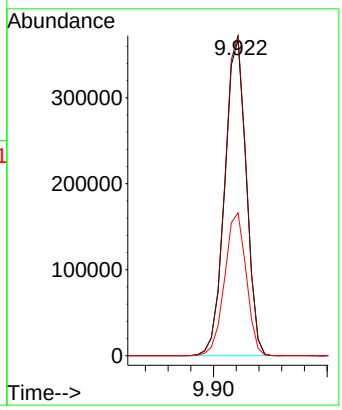


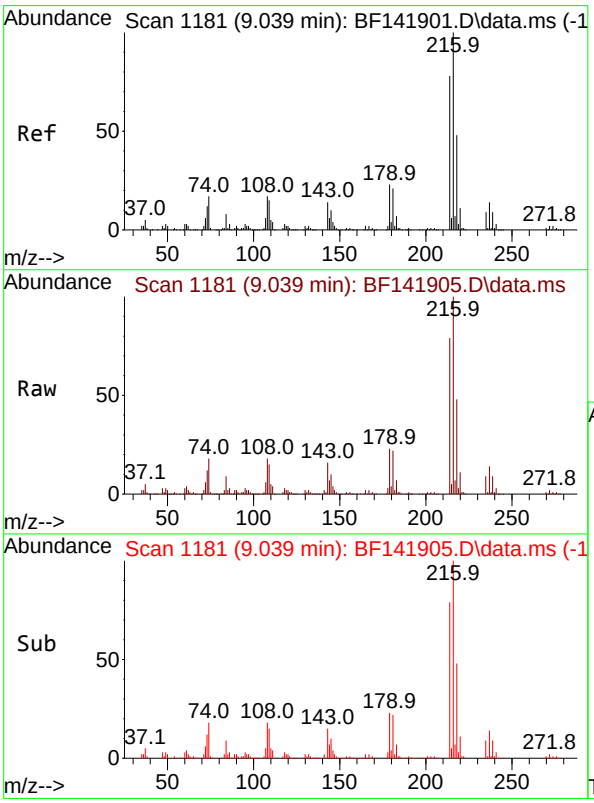
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 481971

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.8	122.6
160	45.2	36.7	55.1

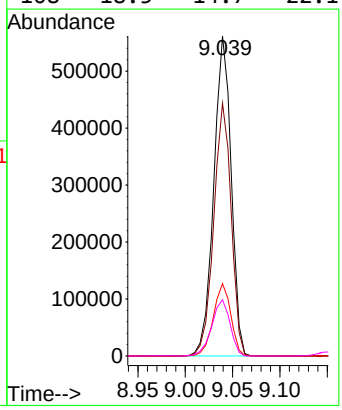


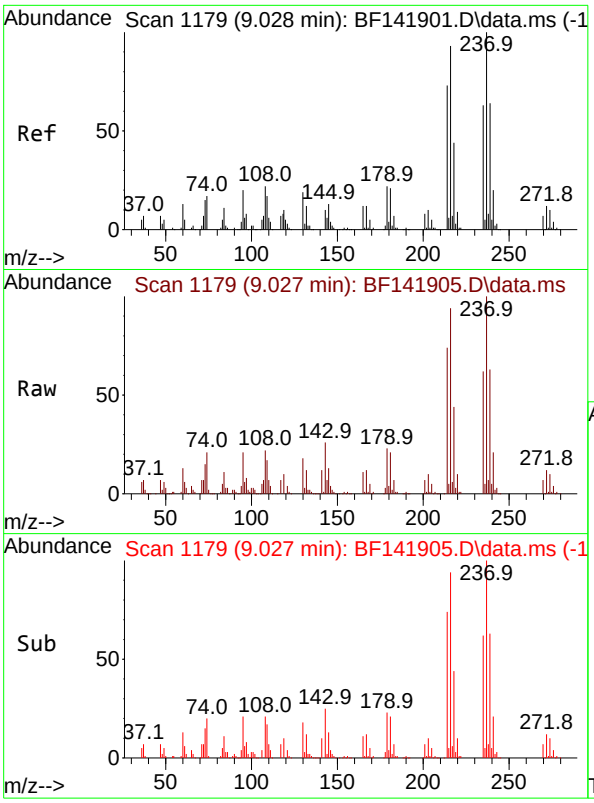


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.955 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:216 Resp: 719431

Ion	Ratio	Lower	Upper
216	100		
214	78.9	61.9	92.9
179	22.7	18.1	27.1
108	18.5	14.7	22.1



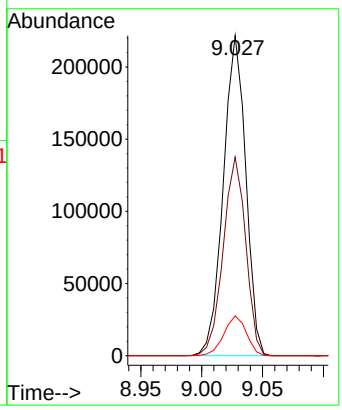


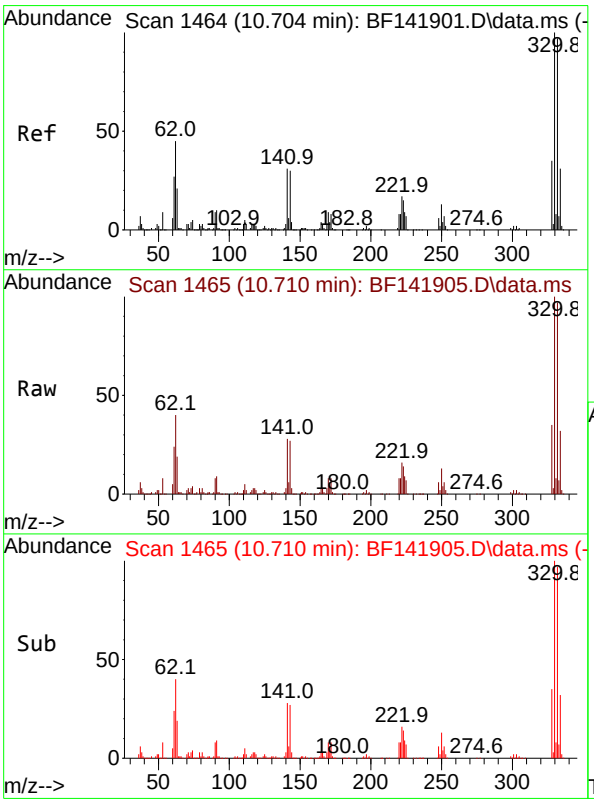
#41
Hexachlorocyclopentadiene
Concen: 49.142 ng
RT: 9.027 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 284968

Ion	Ratio	Lower	Upper
237	100		
235	62.1	43.1	83.1
272	12.4	0.0	32.0

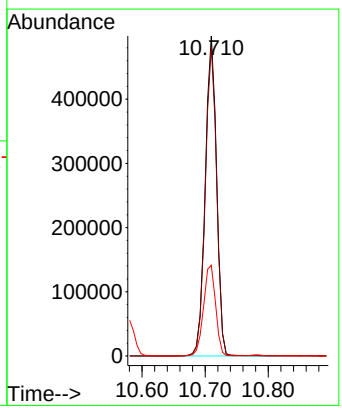


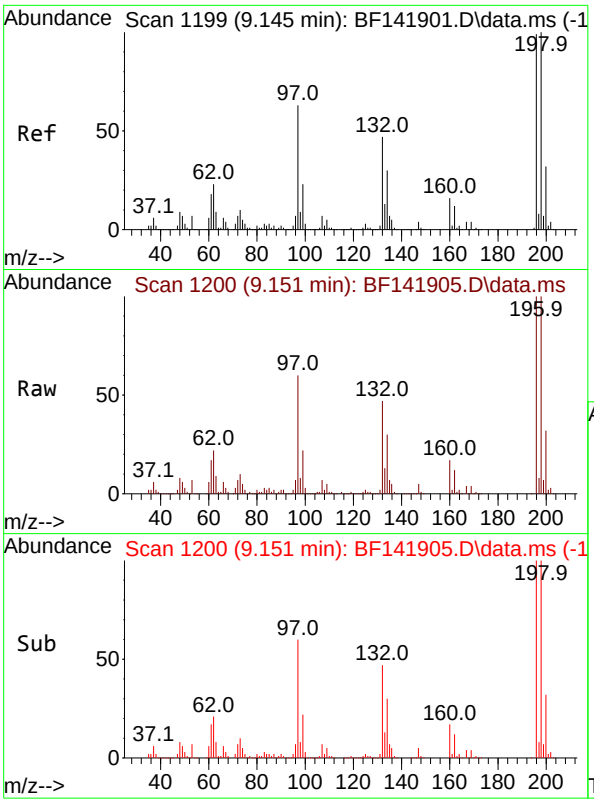


#42
2,4,6-Tribromophenol
Concen: 102.342 ng
RT: 10.710 min Scan# 1465
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:330 Resp: 625035

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.6	116.4
141	30.1	24.7	37.1



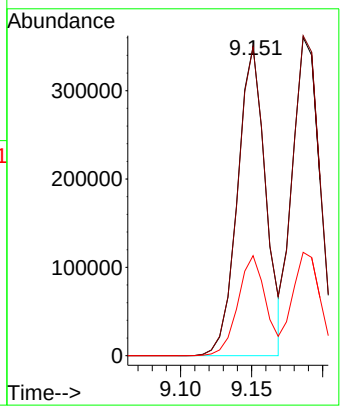


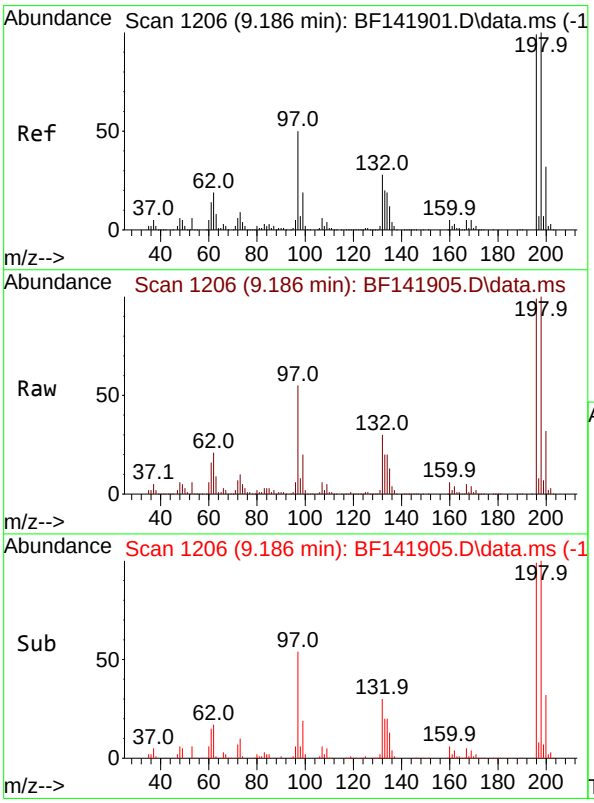
#43
2,4,6-Trichlorophenol
Concen: 50.291 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 481782

Ion	Ratio	Lower	Upper
196	100		
198	99.9	80.6	121.0
200	32.3	25.8	38.6

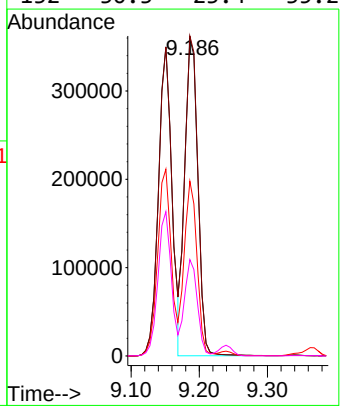


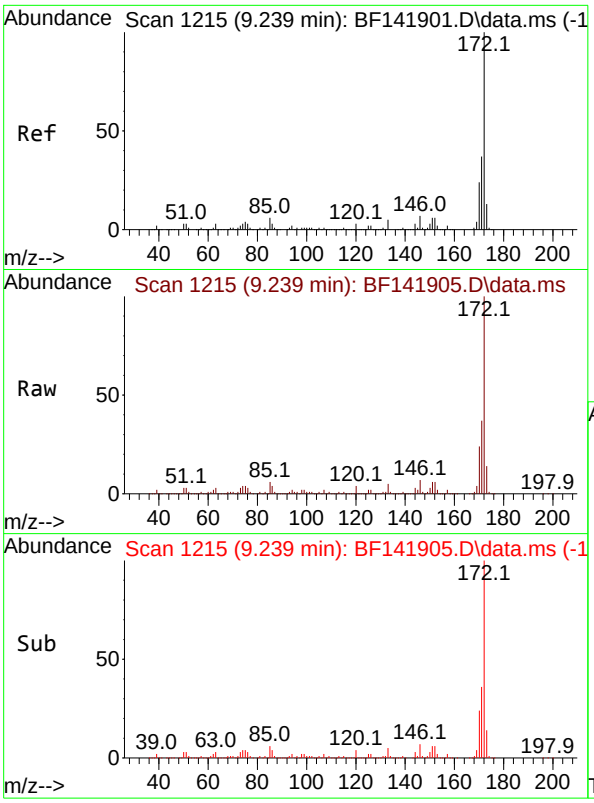


#44
2,4,5-Trichlorophenol
Concen: 49.580 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:196 Resp: 482570

Ion	Ratio	Lower	Upper
196	100		
198	100.5	80.7	121.1
97	54.9	42.1	63.1
132	30.3	23.4	35.2



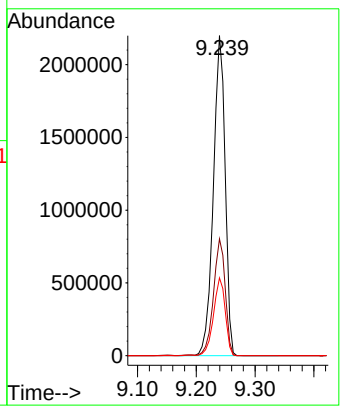


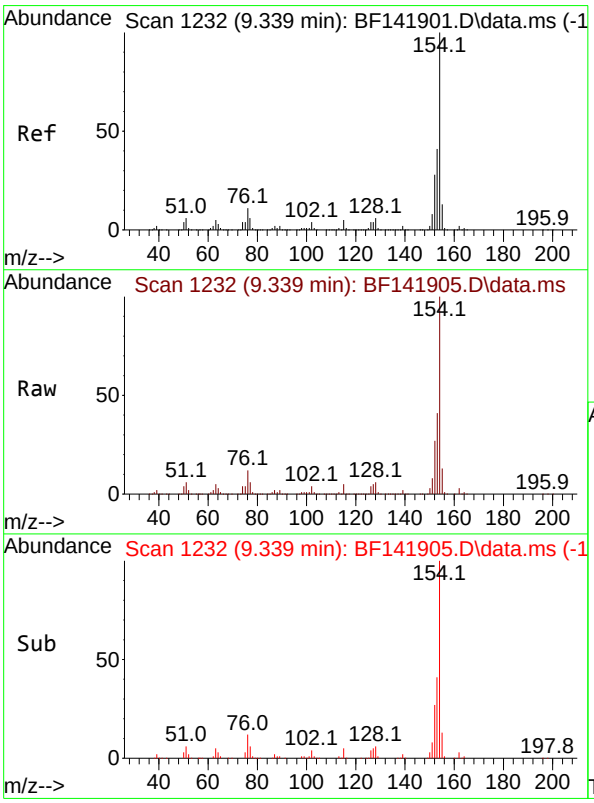
#45
2-Fluorobiphenyl
Concen: 96.836 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 3064989

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.3	43.9
170	24.3	19.4	29.0

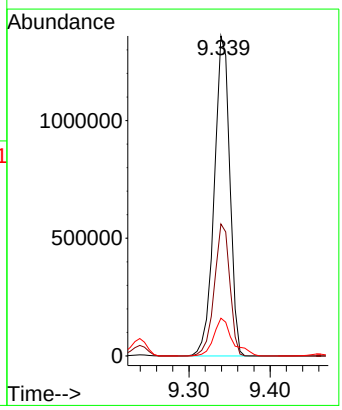


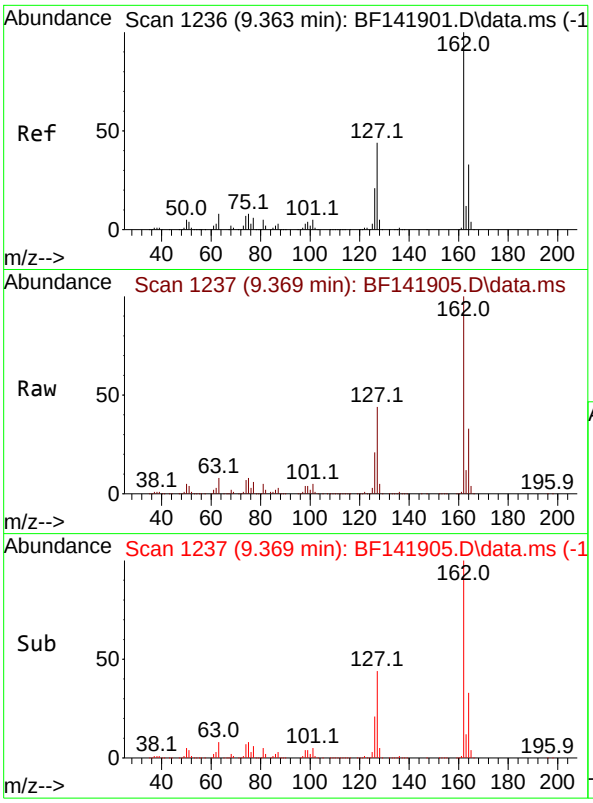


#46
1,1'-Biphenyl
Concen: 49.526 ng
RT: 9.339 min Scan# 1232
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:154 Resp: 1809746

Ion	Ratio	Lower	Upper
154	100		
153	41.3	21.1	61.1
76	11.8	0.0	31.3



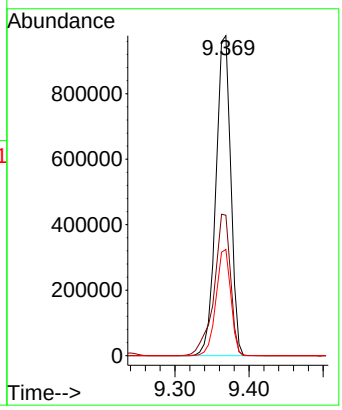


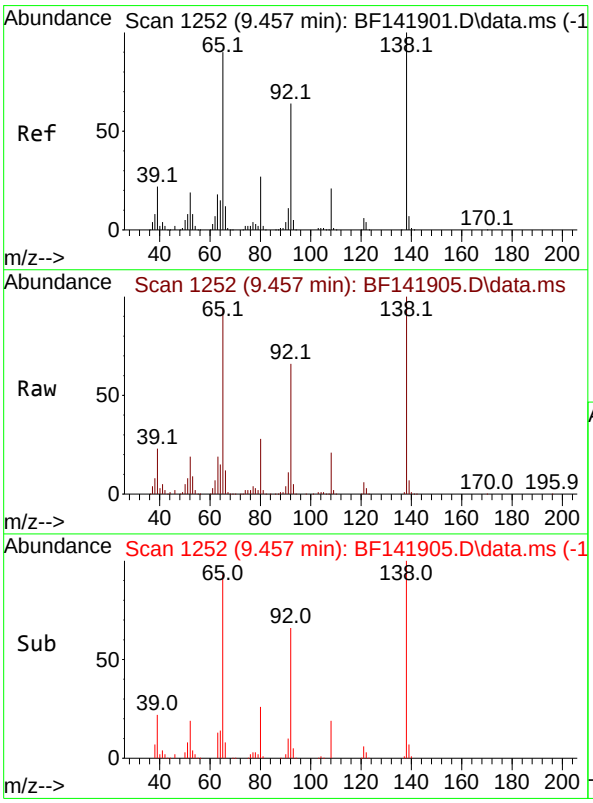
#47
2-Chloronaphthalene
Concen: 49.960 ng
RT: 9.369 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 1360528

Ion	Ratio	Lower	Upper
162	100		
127	43.9	35.5	53.3
164	33.2	26.6	40.0

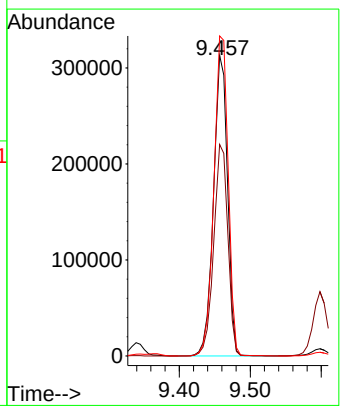


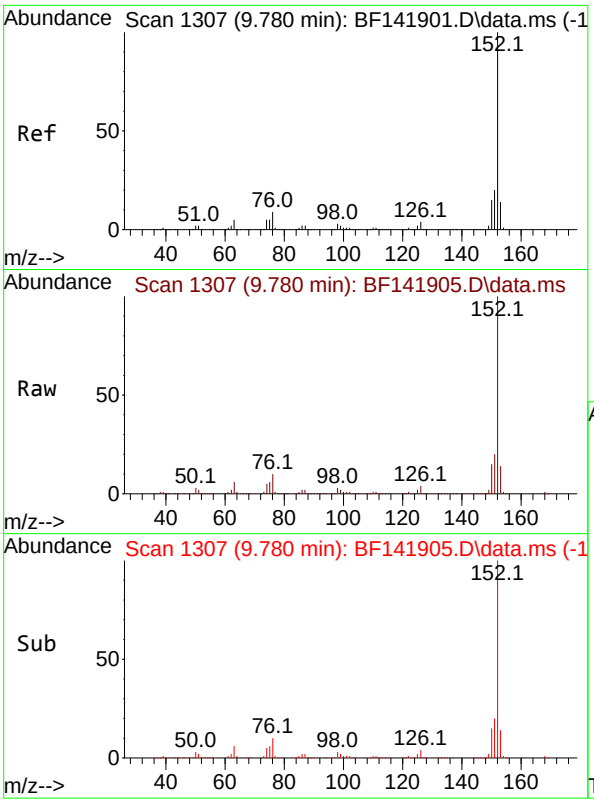


#48
2-Nitroaniline
Concen: 54.854 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion: 65 Resp: 429111

Ion	Ratio	Lower	Upper
65	100		
92	70.4	56.6	84.8
138	106.4	88.6	133.0



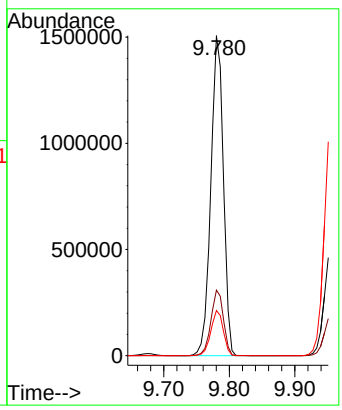


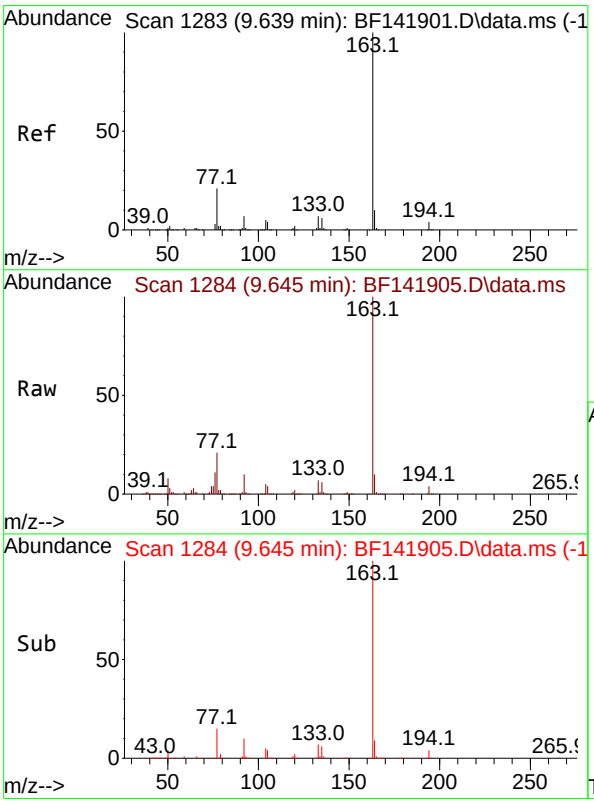
#49
Acenaphthylene
Concen: 49.674 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 2005538

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.3	24.5
153	14.1	11.1	16.7

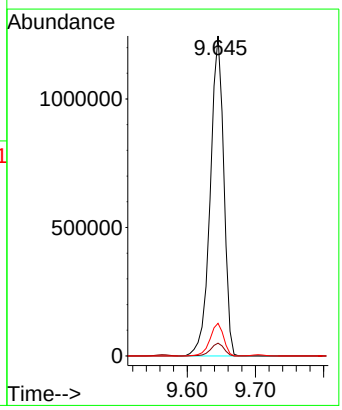


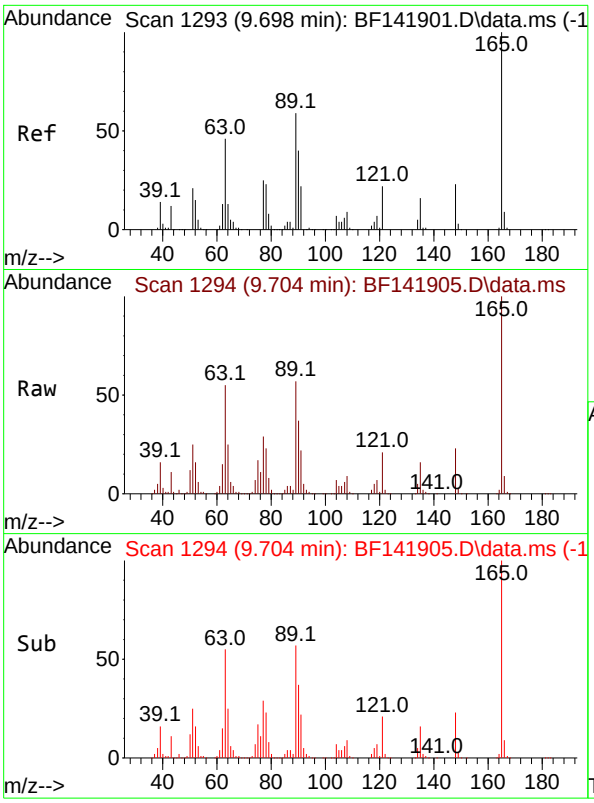


#50
Dimethylphthalate
Concen: 51.273 ng
RT: 9.645 min Scan# 1284
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:163 Resp: 1716995

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.2	8.2	12.4



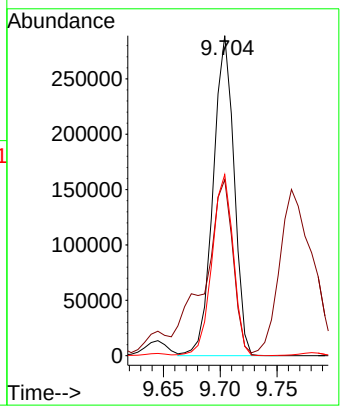


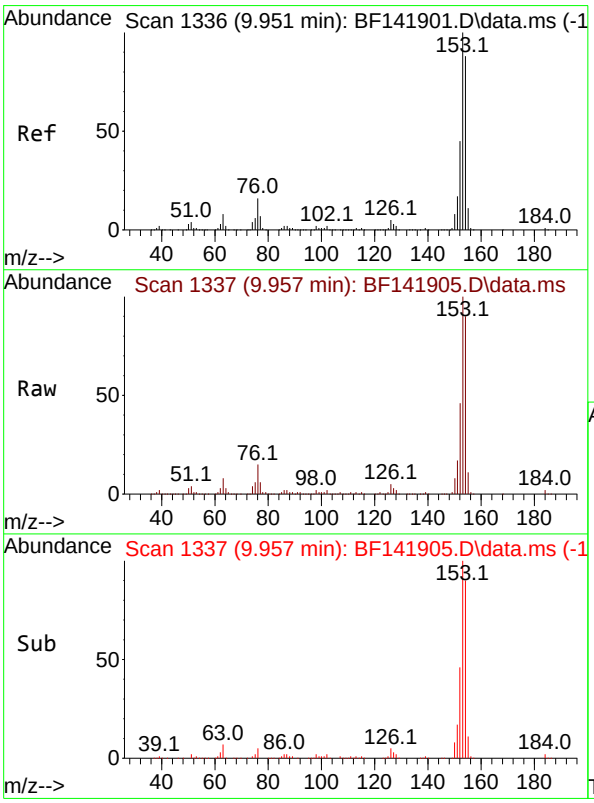
#51
2,6-Dinitrotoluene
Concen: 53.184 ng
RT: 9.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 370368

Ion	Ratio	Lower	Upper
165	100		
63	55.0	47.0	70.4
89	56.6	47.4	71.2

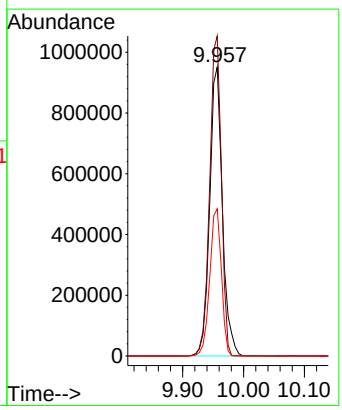


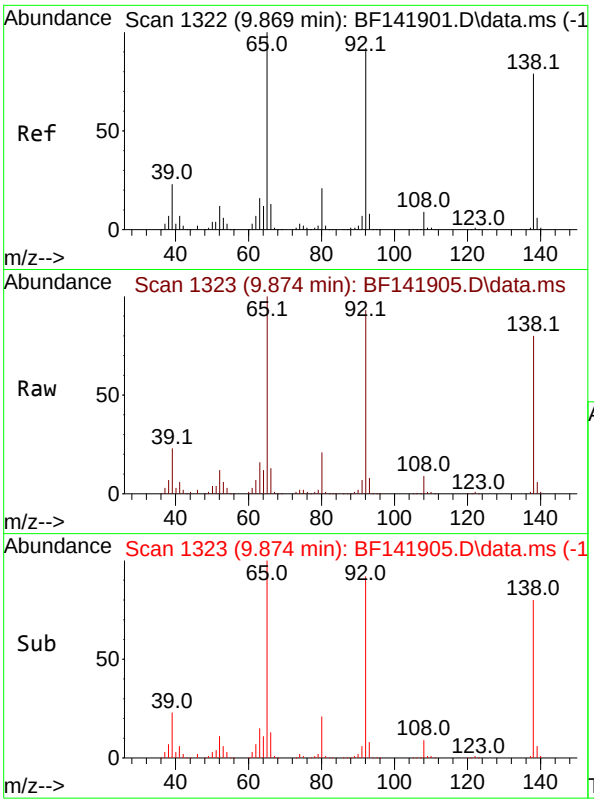


#52
Acenaphthene
Concen: 48.333 ng
RT: 9.957 min Scan# 1337
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:154 Resp: 1377901

Ion	Ratio	Lower	Upper
154	100		
153	110.7	90.7	136.1
152	51.0	41.1	61.7



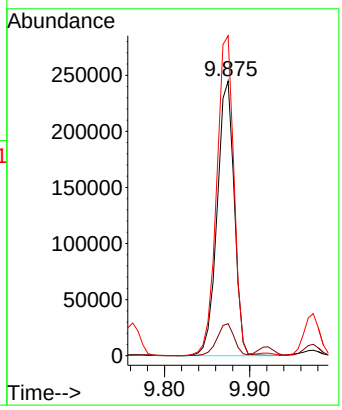


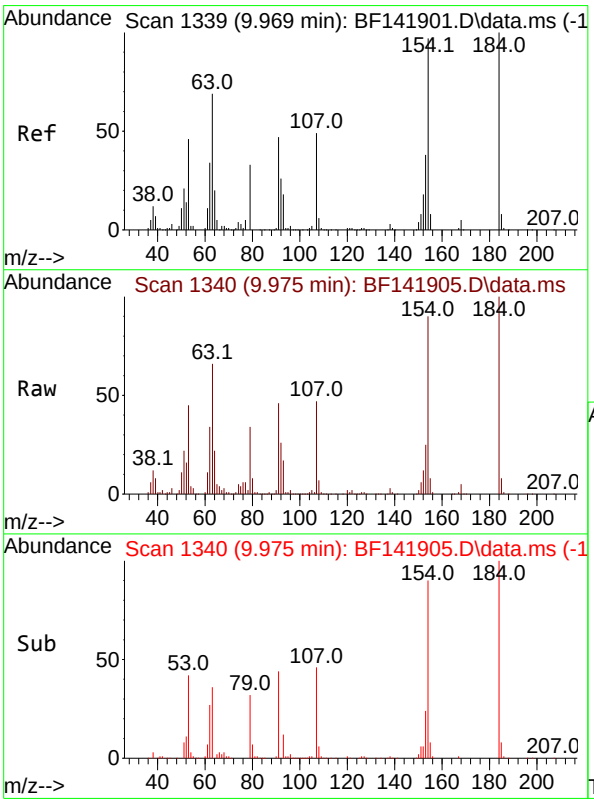
#53
3-Nitroaniline
Concen: 47.638 ng
RT: 9.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 340633

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.3	13.9
92	116.5	93.5	140.3

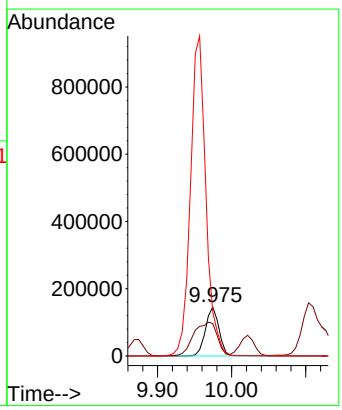


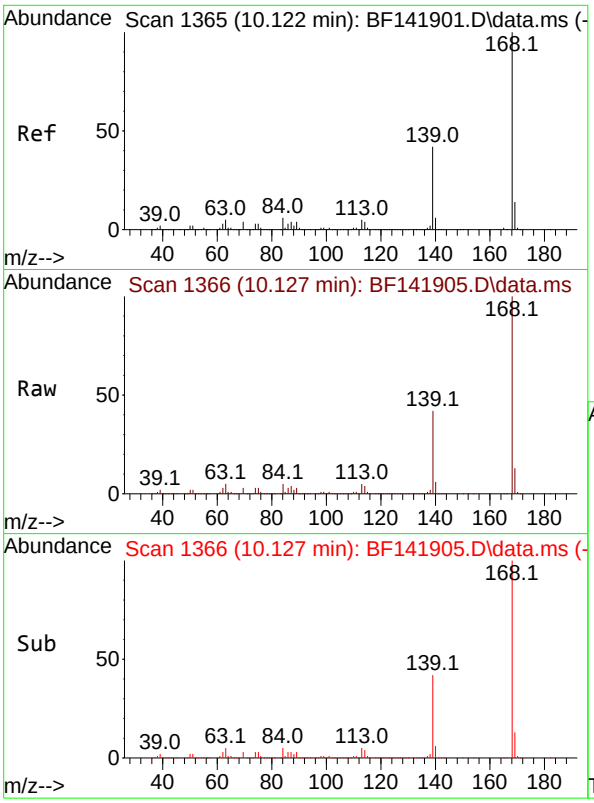


#54
2,4-Dinitrophenol
Concen: 49.104 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:184 Resp: 184410

Ion	Ratio	Lower	Upper
184	100		
63	66.3	60.2	90.4
154	90.1	132.9	199.3#



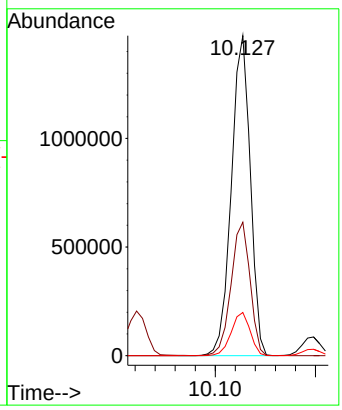


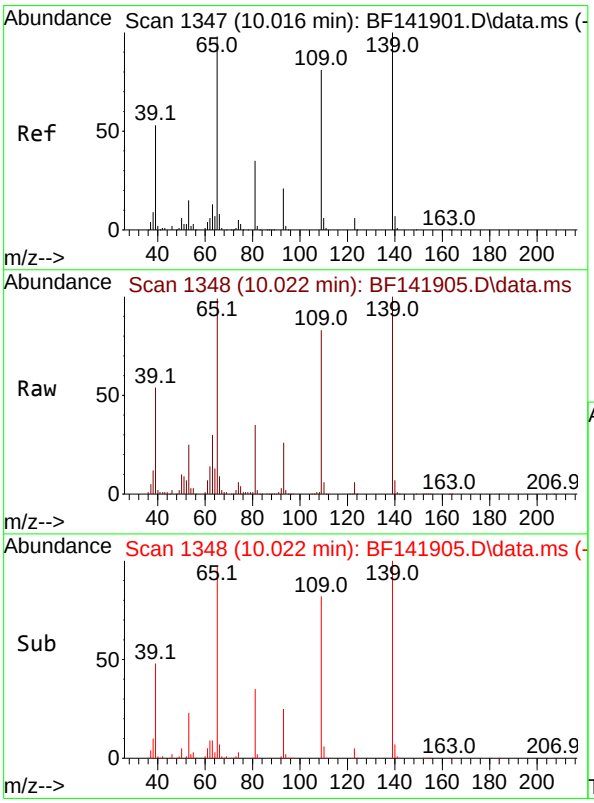
#55
Dibenzofuran
Concen: 47.647 ng
RT: 10.127 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 1936780

Ion	Ratio	Lower	Upper
168	100		
139	41.7	33.9	50.9
169	13.5	11.0	16.4

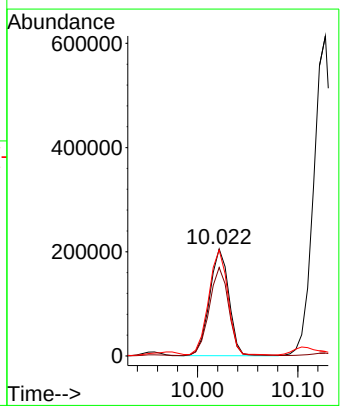


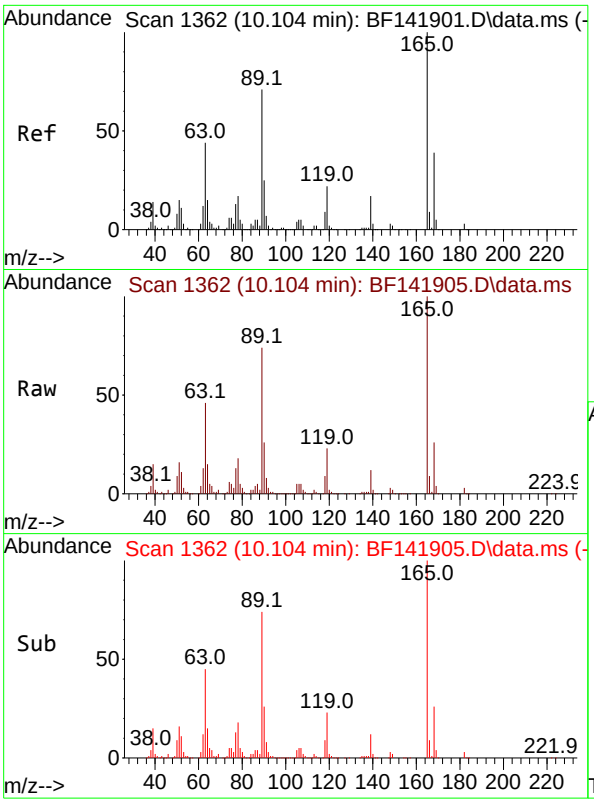


#56
4-Nitrophenol
Concen: 51.474 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:139 Resp: 276487

Ion	Ratio	Lower	Upper
139	100		
109	82.6	61.6	101.6
65	99.1	79.4	119.4



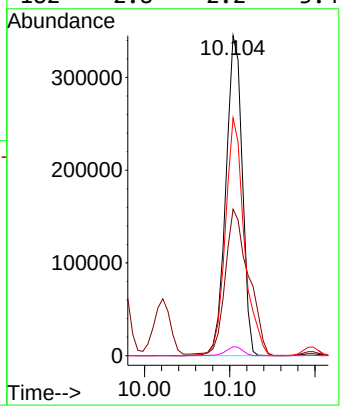


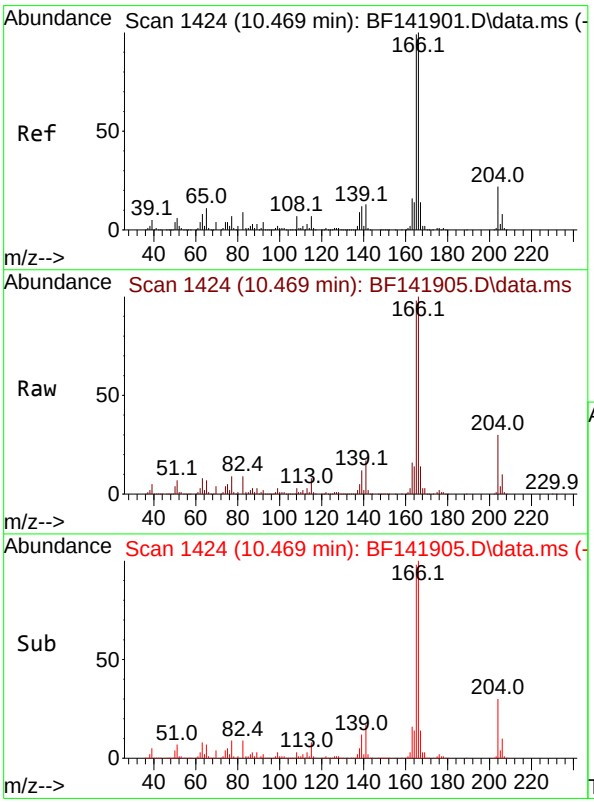
#57
2,4-Dinitrotoluene
Concen: 50.321 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 461276

Ion	Ratio	Lower	Upper
165	100		
63	45.8	35.4	53.2
89	74.3	56.6	84.8
182	2.8	2.2	3.4

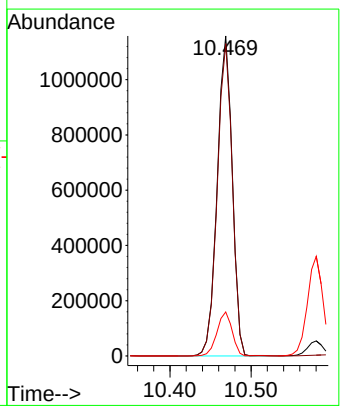


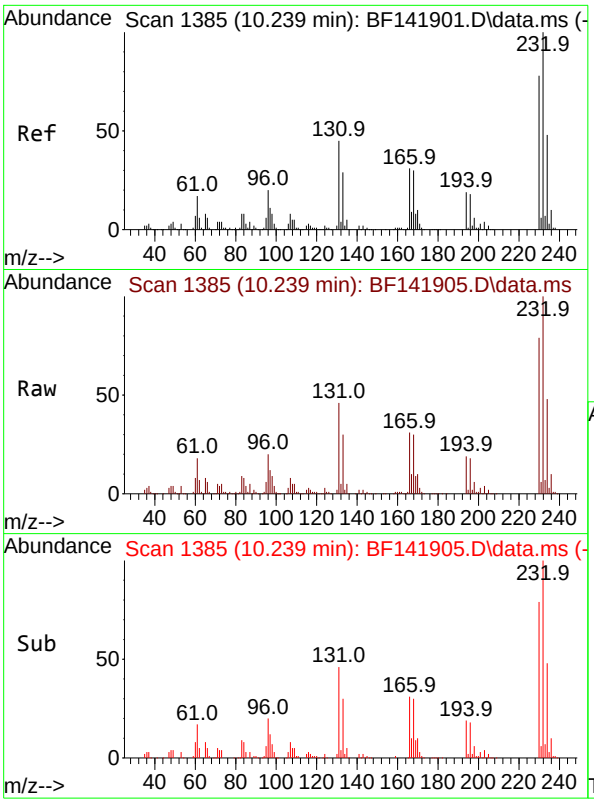


#58
Fluorene
Concen: 47.708 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:166 Resp: 1497123

Ion	Ratio	Lower	Upper
166	100		
165	97.6	79.0	118.4
167	13.7	11.0	16.4



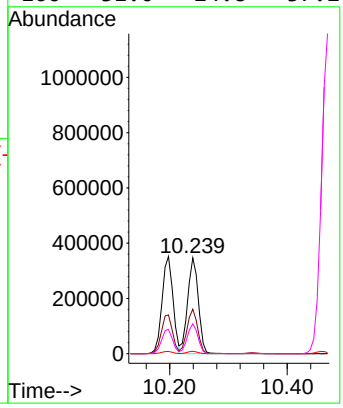


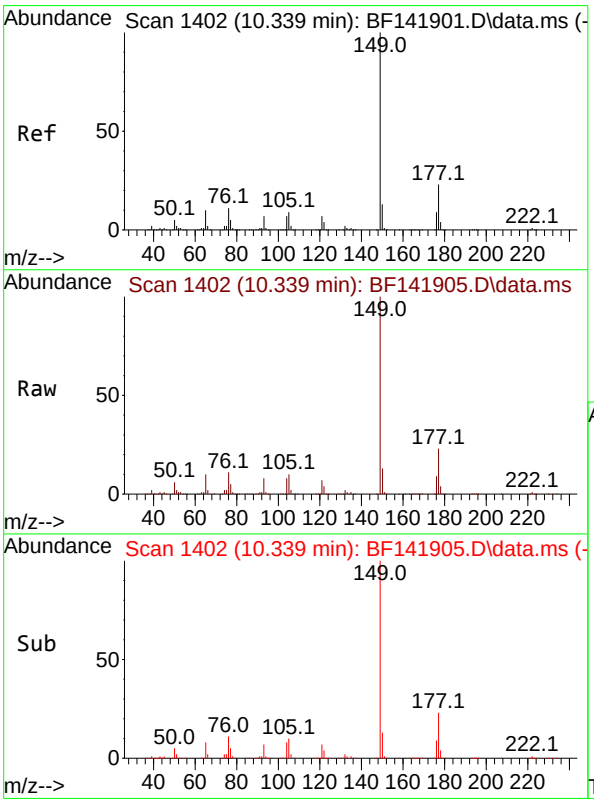
#59
2,3,4,6-Tetrachlorophenol
Concen: 49.600 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 438025

Ion	Ratio	Lower	Upper
232	100		
131	46.2	37.3	55.9
130	2.4	1.9	2.9
166	31.0	24.8	37.2

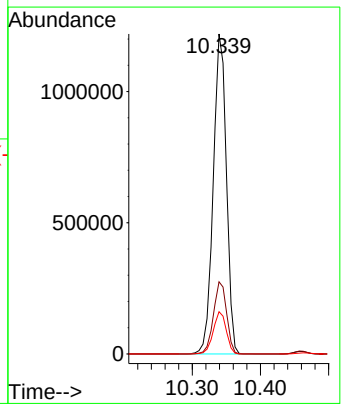


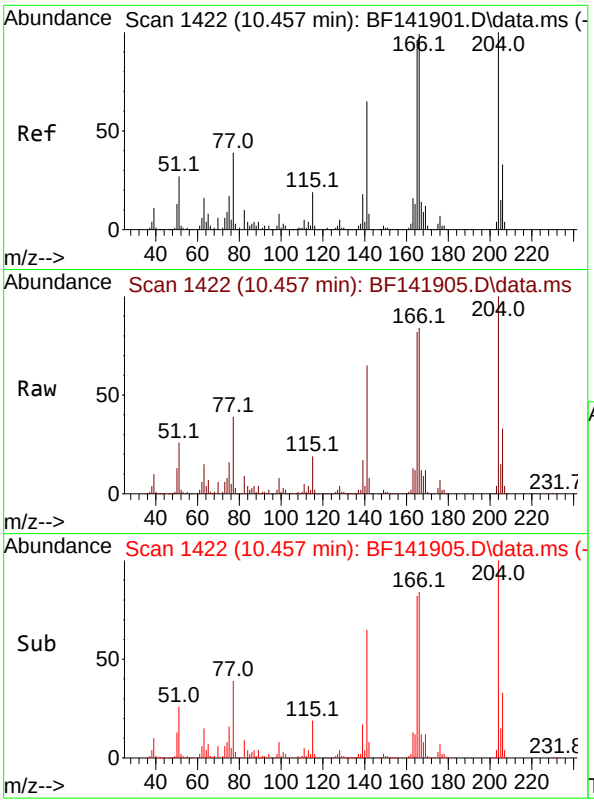


#60
Diethylphthalate
Concen: 48.639 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:149 Resp: 1635073

Ion	Ratio	Lower	Upper
149	100		
177	22.5	18.0	27.0
150	13.2	10.2	15.4



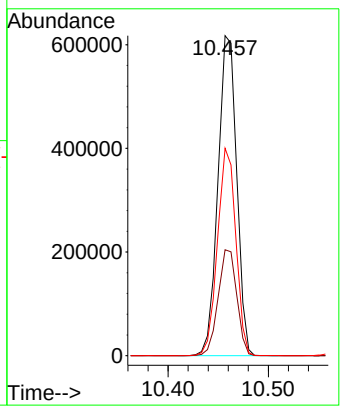


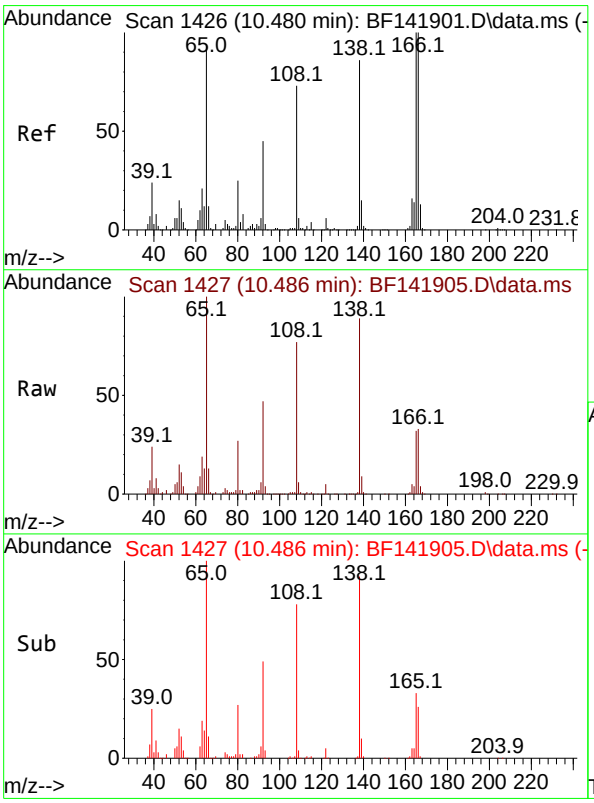
#61
4-Chlorophenyl-phenylether
Concen: 48.929 ng
RT: 10.457 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 799744

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.8	40.2
141	64.8	52.4	78.6

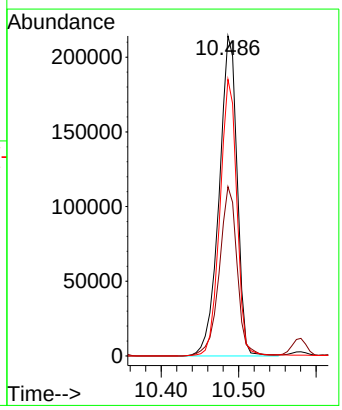


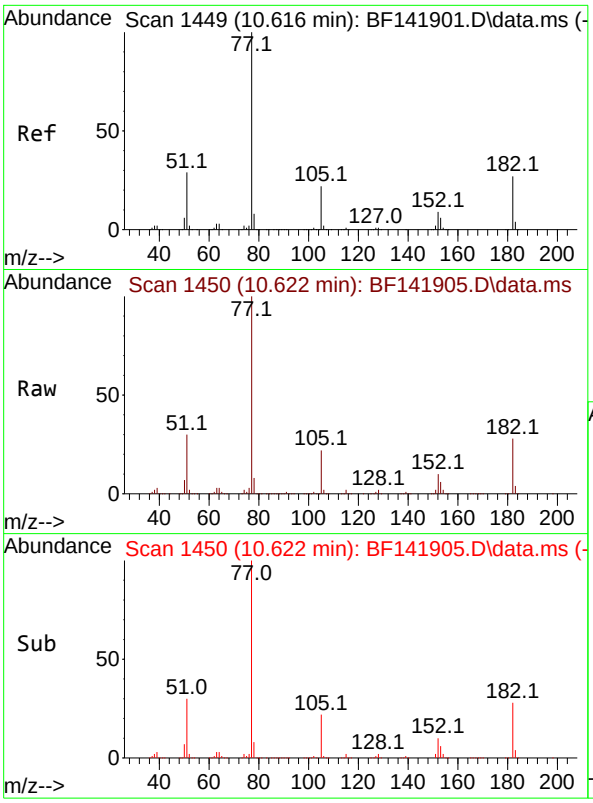


#62
4-Nitroaniline
Concen: 49.990 ng
RT: 10.486 min Scan# 1427
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:138 Resp: 346378

Ion	Ratio	Lower	Upper
138	100		
92	52.9	32.6	72.6
108	86.4	65.0	105.0



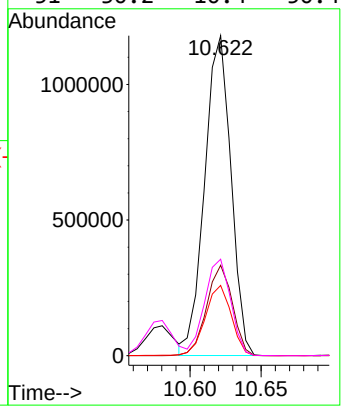


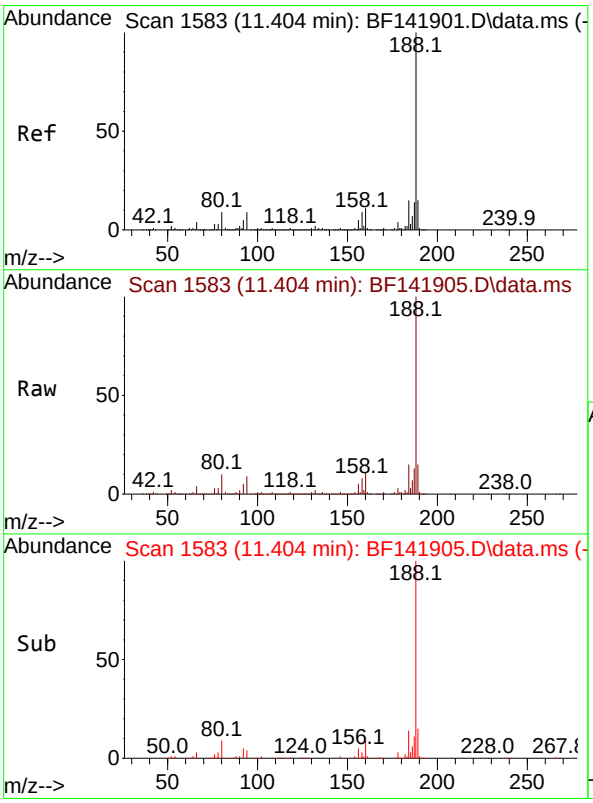
#63
Azobenzene
Concen: 48.653 ng
RT: 10.622 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 1519356

Ion	Ratio	Lower	Upper
77	100		
182	28.3	6.6	46.6
105	22.0	1.3	41.3
51	30.2	10.4	50.4

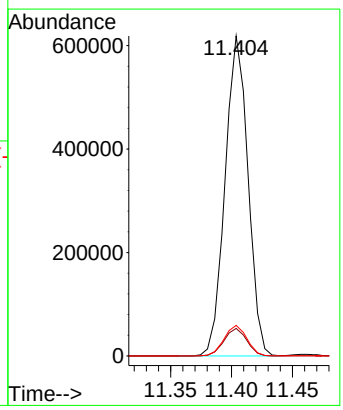


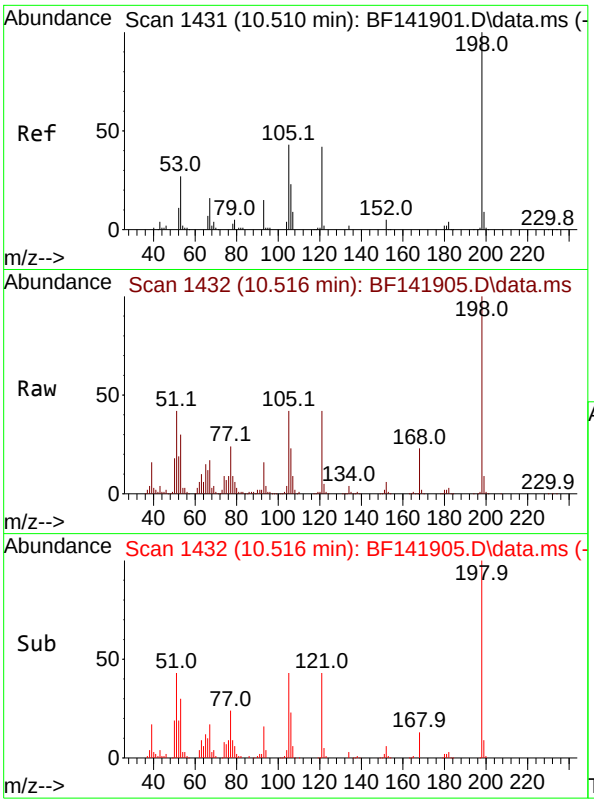


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:188 Resp: 811142

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.8	10.2
80	9.6	7.6	11.4



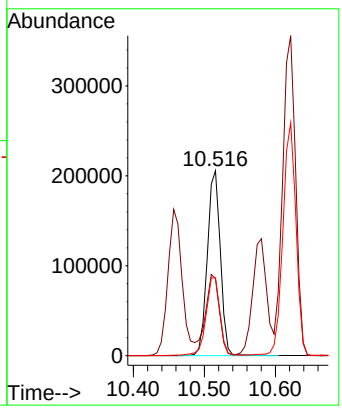


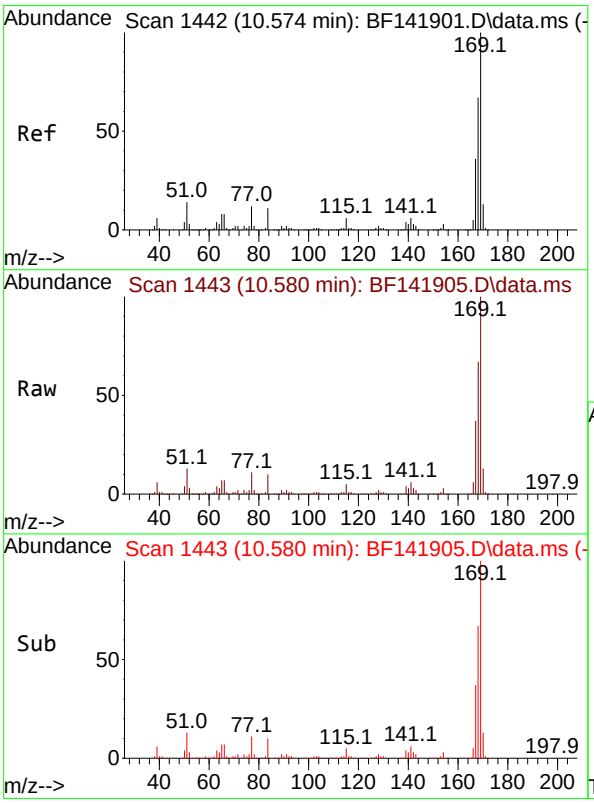
#65
4,6-Dinitro-2-methylphenol
Concen: 54.673 ng
RT: 10.516 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 262910

Ion	Ratio	Lower	Upper
198	100		
51	41.7	22.3	62.3
105	42.0	23.0	63.0

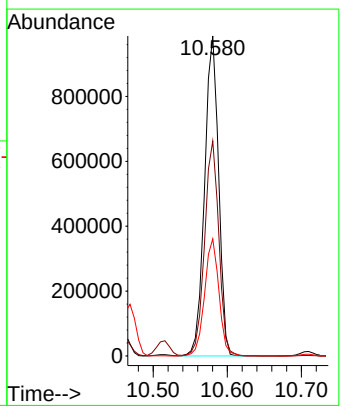


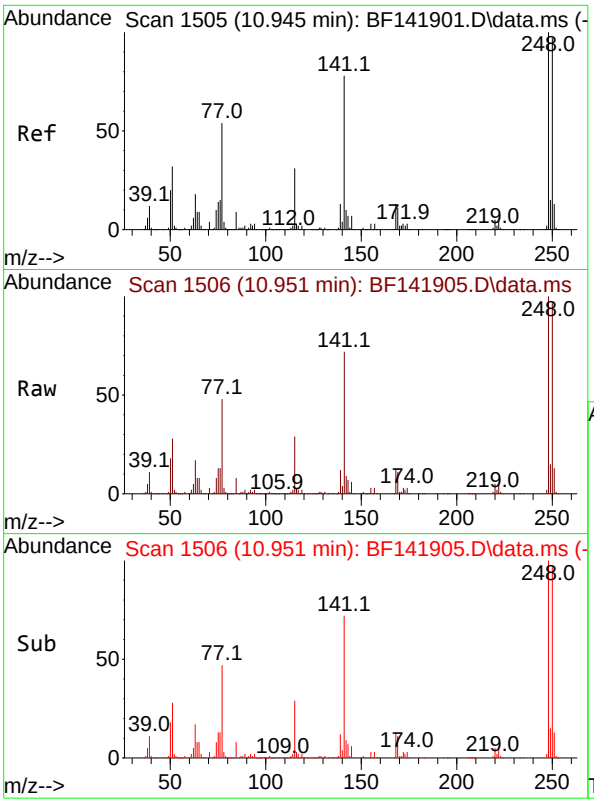


#66
n-Nitrosodiphenylamine
Concen: 49.373 ng
RT: 10.580 min Scan# 1443
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:169 Resp: 1293745

Ion	Ratio	Lower	Upper
169	100		
168	67.2	53.7	80.5
167	36.6	29.2	43.8



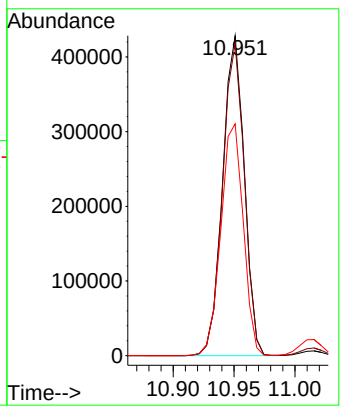


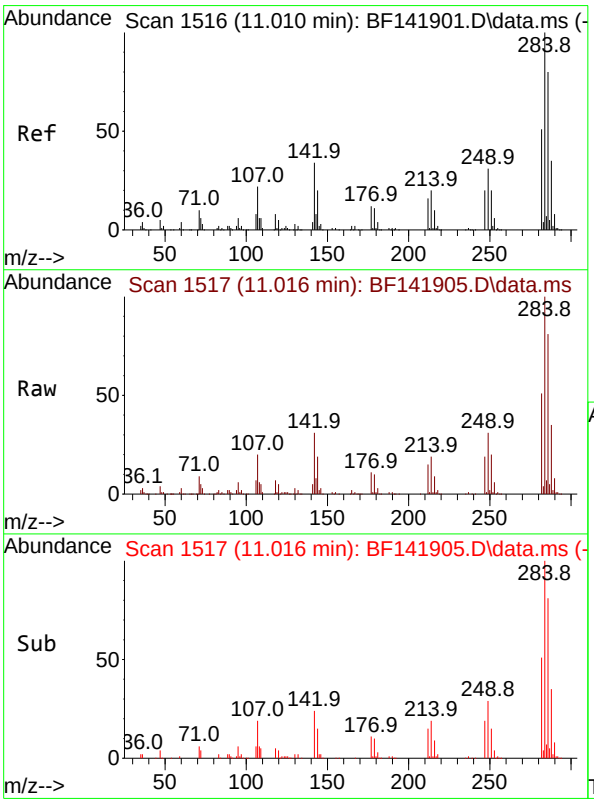
#67
4-Bromophenyl-phenylether
Concen: 52.740 ng
RT: 10.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 532762

Ion	Ratio	Lower	Upper
248	100		
250	97.5	77.8	116.8
141	72.5	62.6	93.8

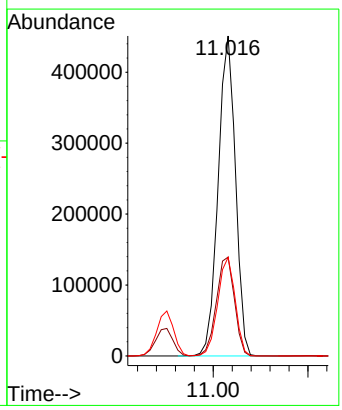


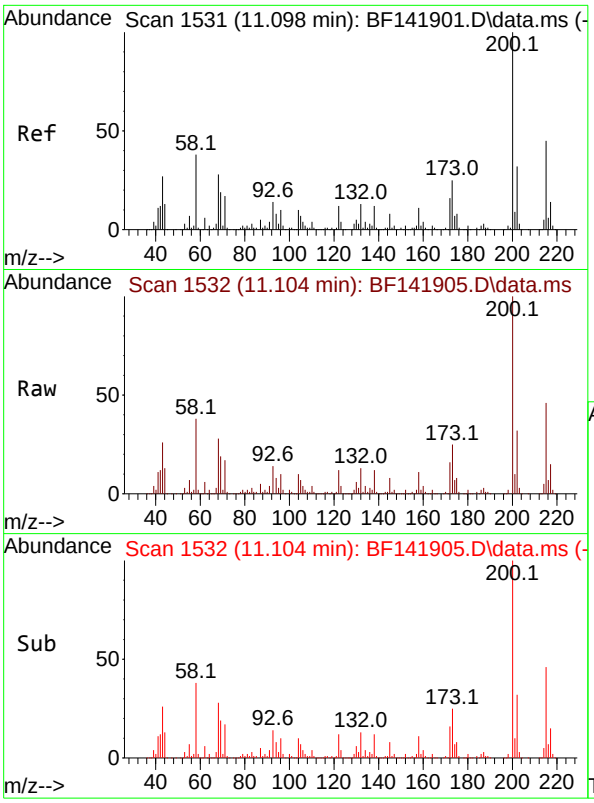


#68
Hexachlorobenzene
Concen: 51.359 ng
RT: 11.016 min Scan# 1517
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:284 Resp: 573467

Ion	Ratio	Lower	Upper
284	100		
142	30.9	27.0	40.6
249	30.8	25.2	37.8



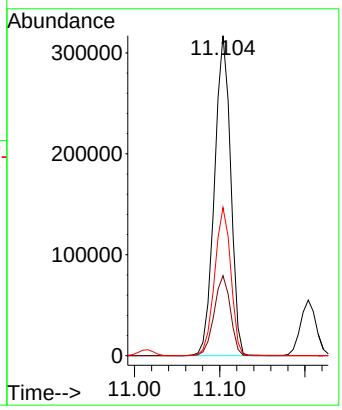


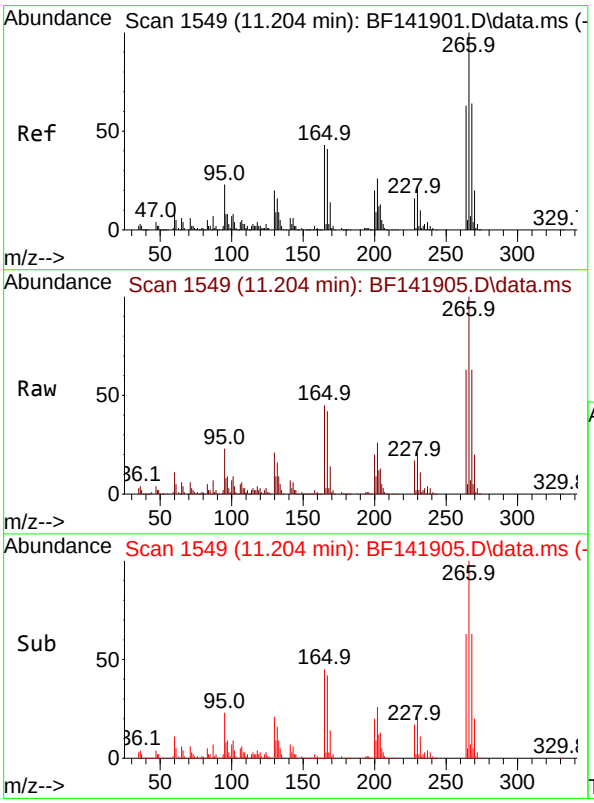
#69
Atrazine
Concen: 65.441 ng
RT: 11.104 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 418147

Ion	Ratio	Lower	Upper
200	100		
173	25.0	4.7	44.7
215	46.3	25.4	65.4

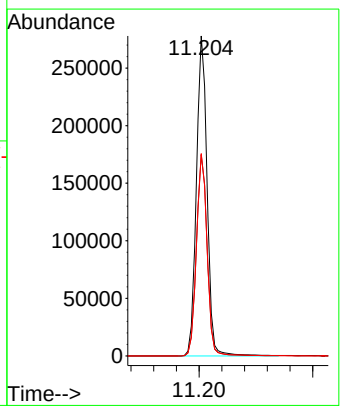


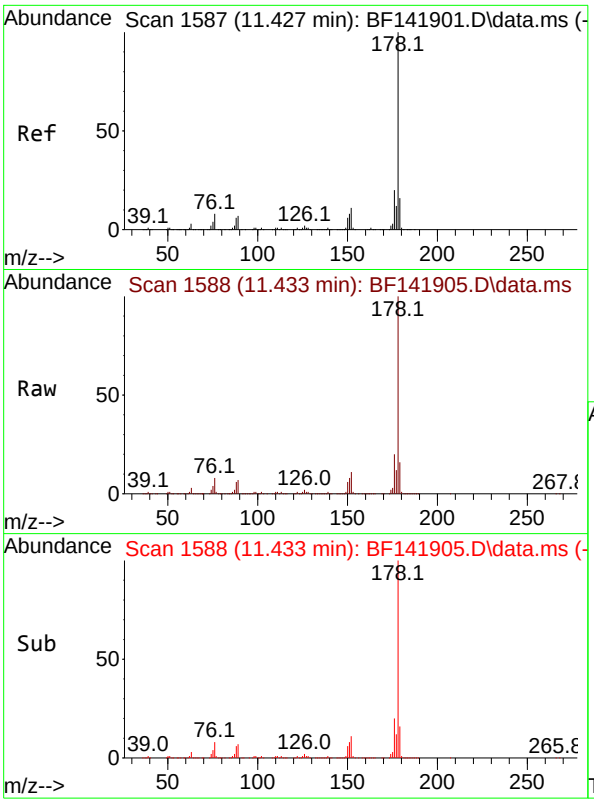


#70
Pentachlorophenol
Concen: 53.050 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:266 Resp: 365292

Ion	Ratio	Lower	Upper
266	100		
268	62.9	51.0	76.6
264	63.3	50.2	75.2



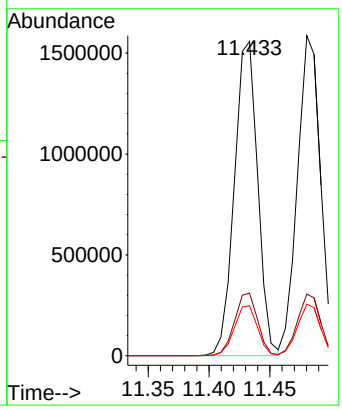


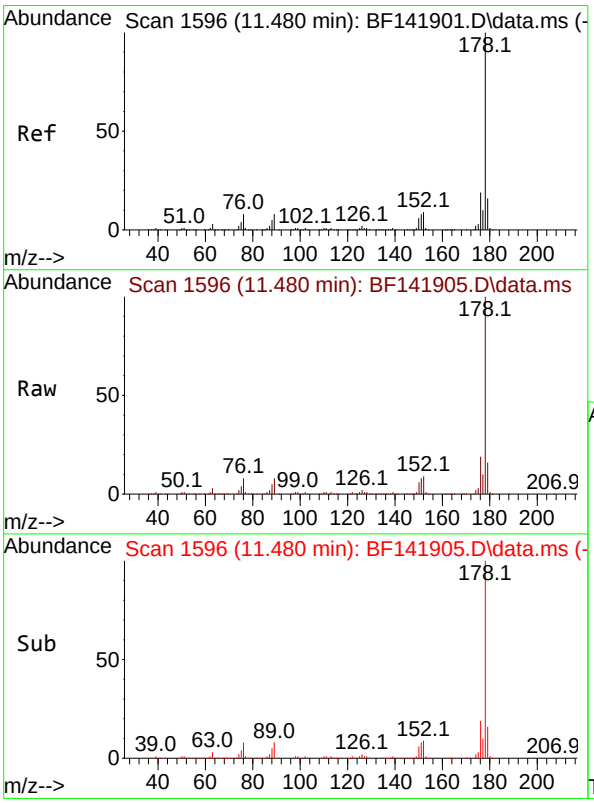
#71
Phenanthrene
Concen: 47.434 ng
RT: 11.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 2080633

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.8	23.8
179	15.9	12.6	19.0

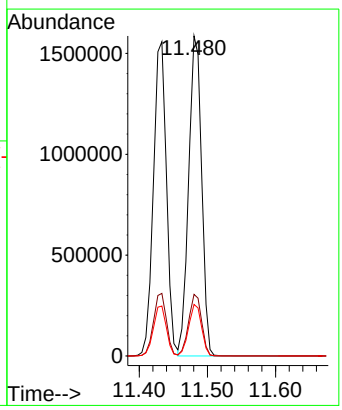


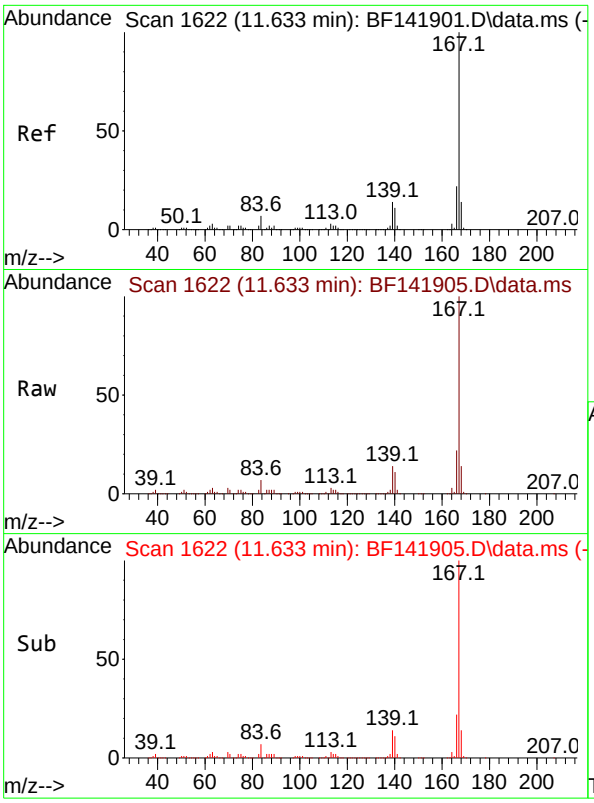


#72
Anthracene
Concen: 47.299 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:178 Resp: 2081490

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.1	22.7
179	16.1	12.6	19.0



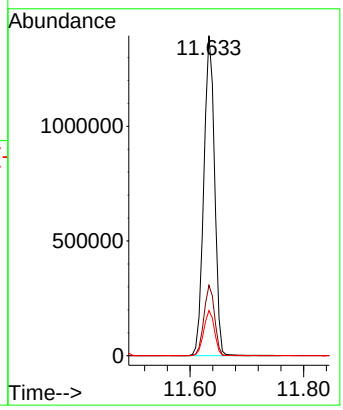


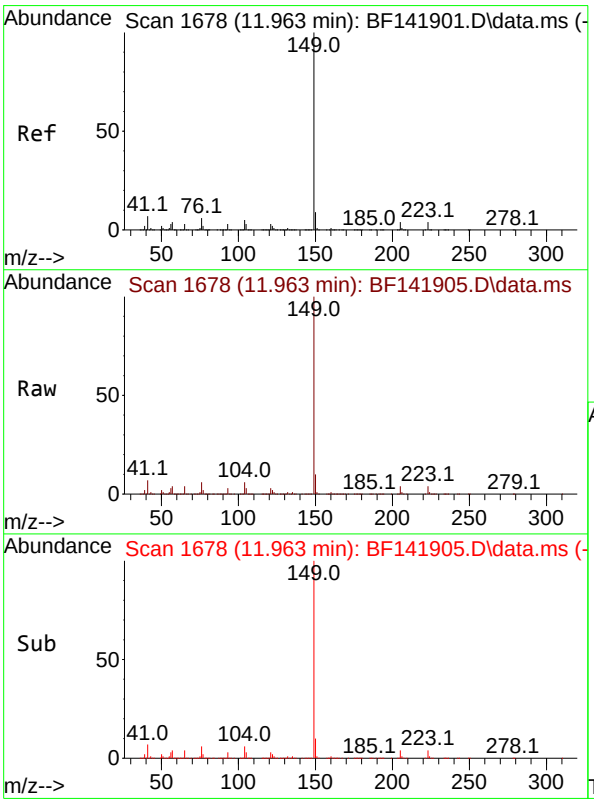
#73
Carbazole
Concen: 48.338 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 1831424

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.4	26.2
139	14.1	11.0	16.6

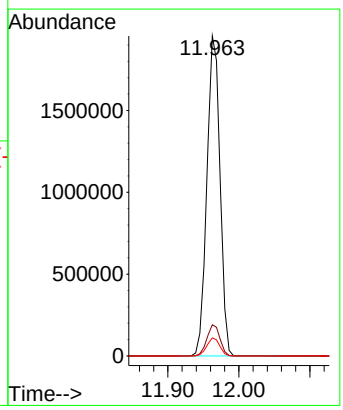


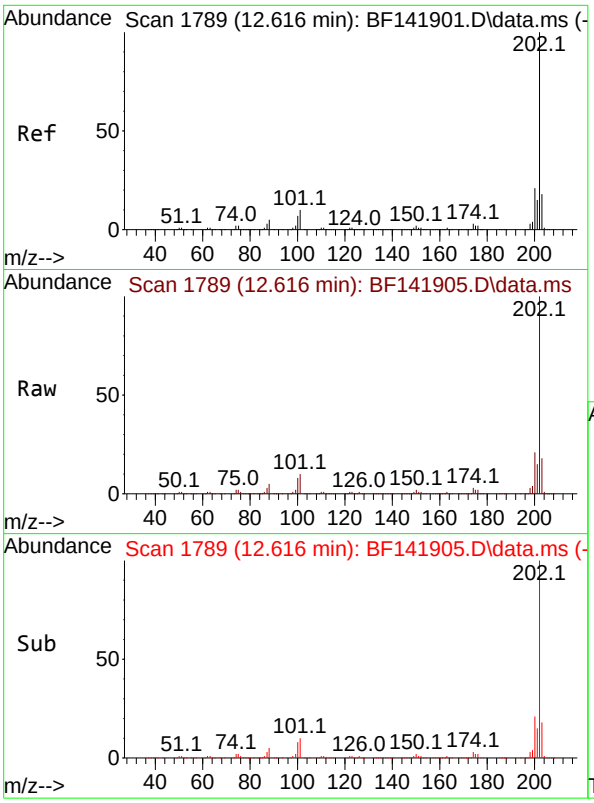


#74
Di-n-butylphthalate
Concen: 50.185 ng
RT: 11.963 min Scan# 1678
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:149 Resp: 2510447

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.6	11.4
104	5.6	4.4	6.6



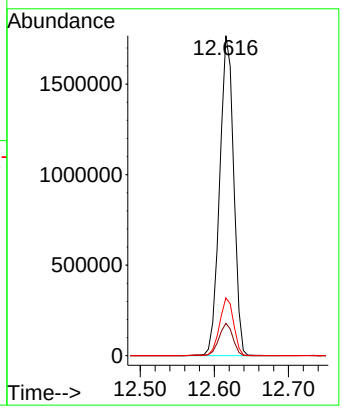


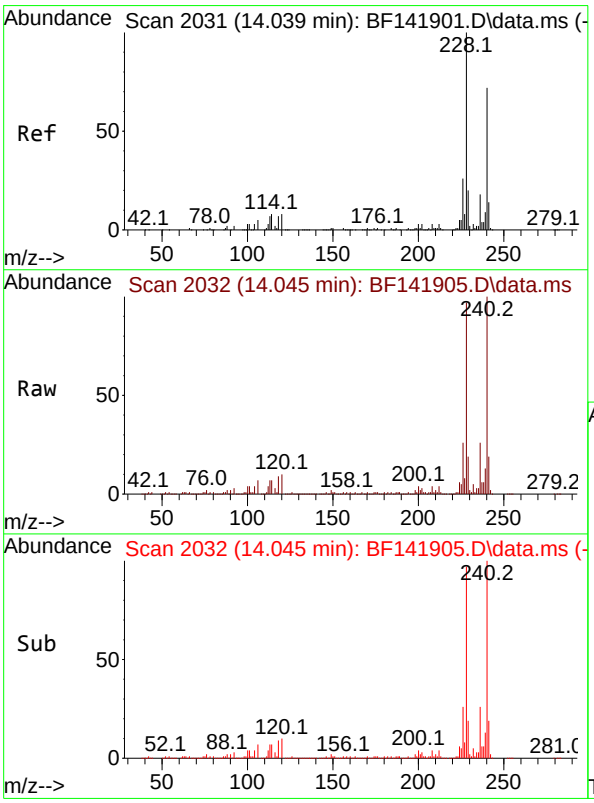
#75
Fluoranthene
Concen: 50.564 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 2328357

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	29.7
203	18.1	0.0	37.8

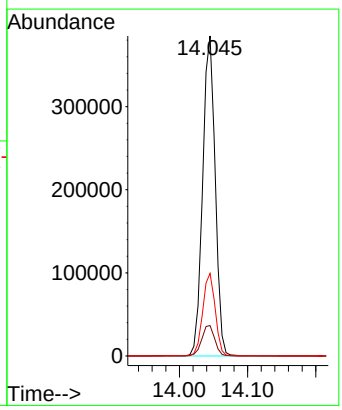


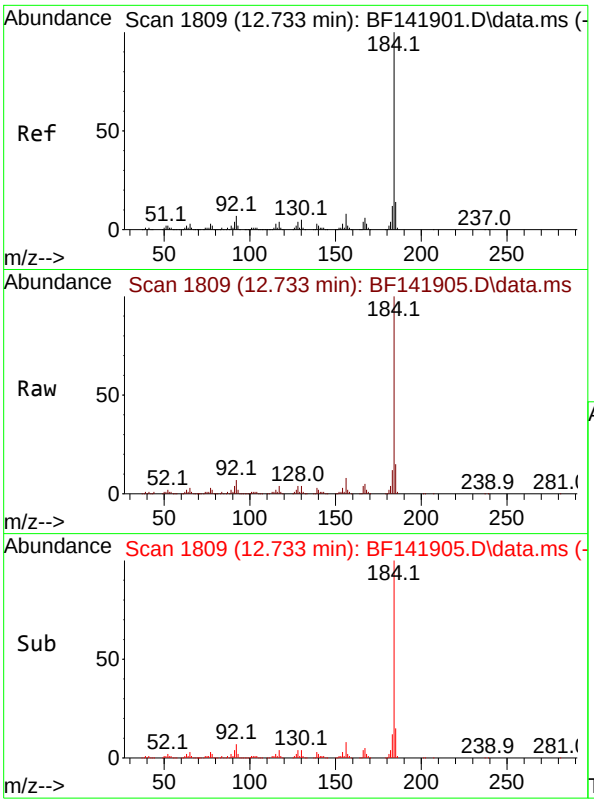


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:240 Resp: 491943

Ion	Ratio	Lower	Upper
240	100		
120	9.5	8.4	12.6
236	25.8	20.5	30.7



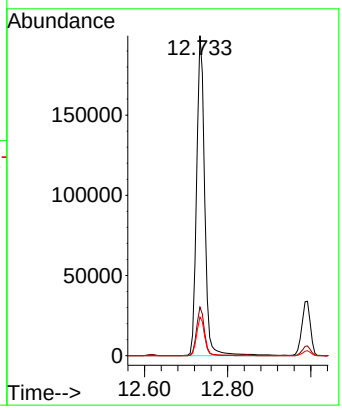


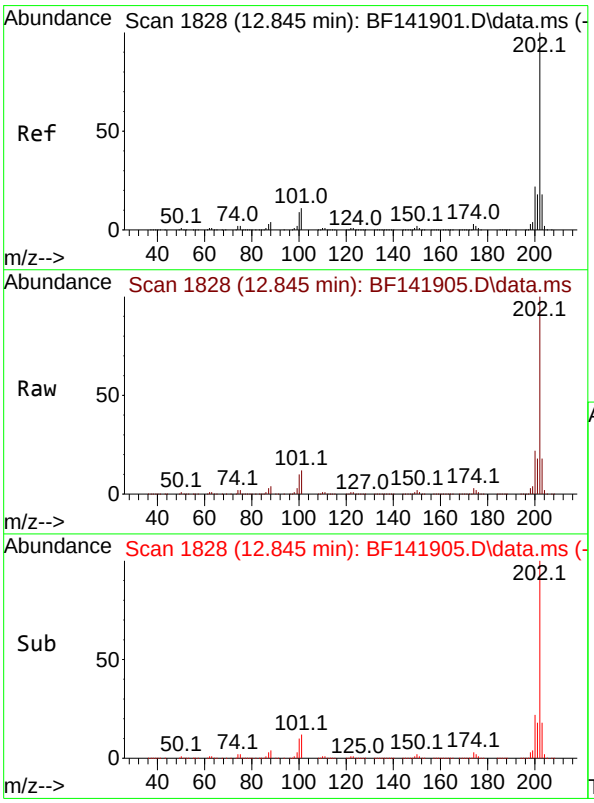
#77
Benzidine
Concen: 38.966 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 270893

Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.5	17.3
183	12.0	9.7	14.5

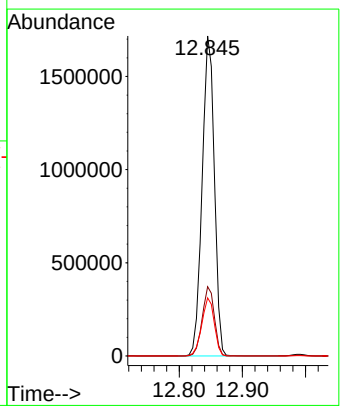


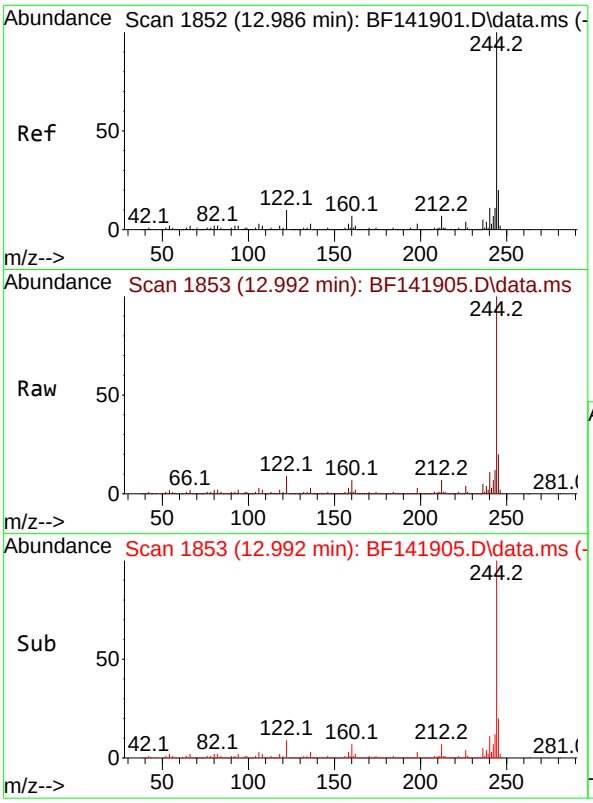


#78
Pyrene
Concen: 54.723 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:202 Resp: 2308671

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.3	25.9
203	18.2	14.4	21.6



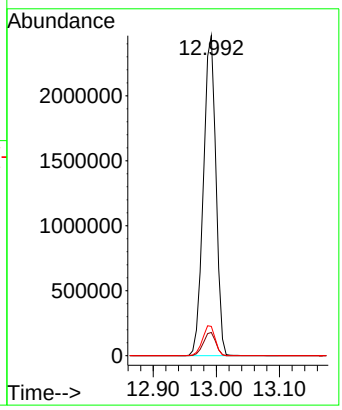


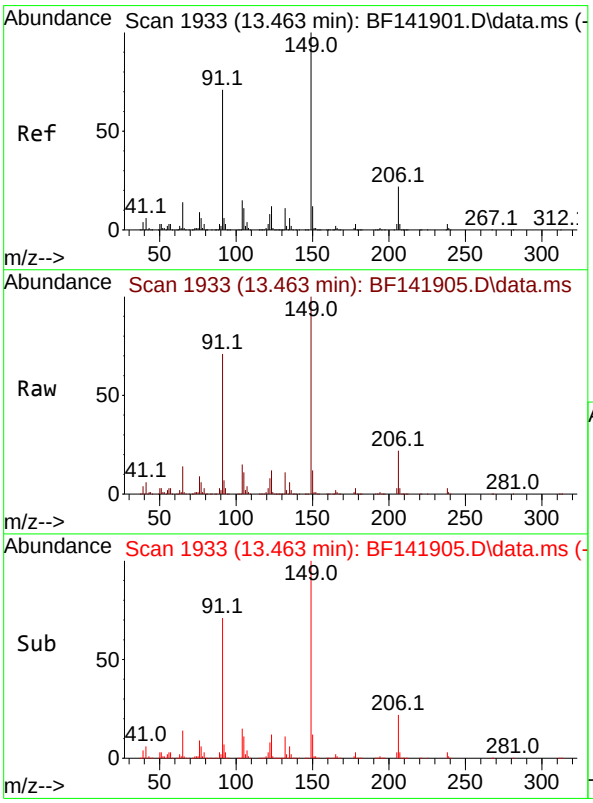
#79
Terphenyl-d14
Concen: 102.007 ng
RT: 12.992 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 3394803

Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	9.2	7.7	11.5

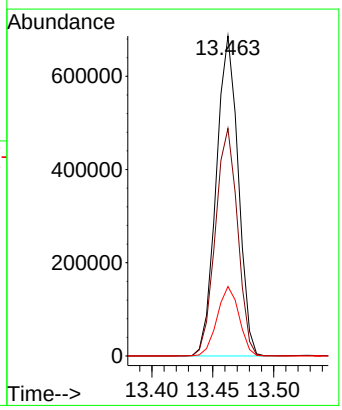


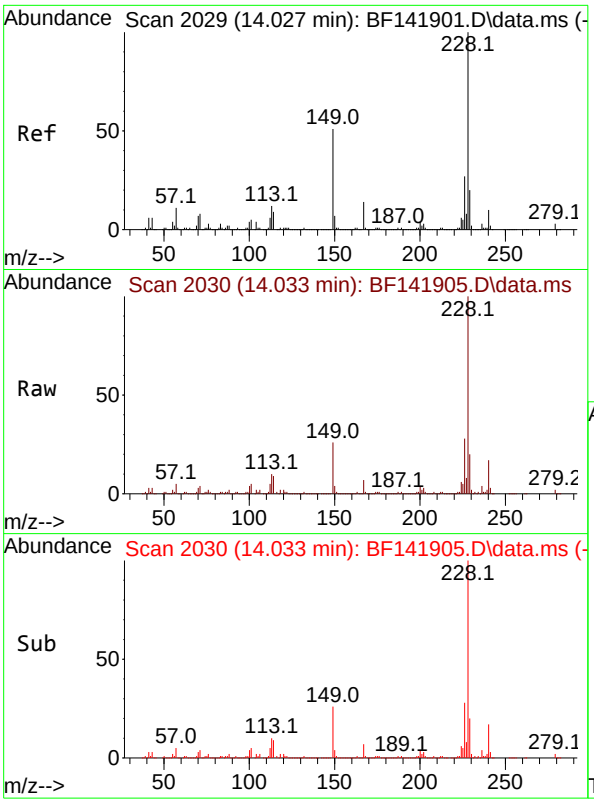


#80
Butylbenzylphthalate
Concen: 52.022 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:149 Resp: 864849

Ion	Ratio	Lower	Upper
149	100		
91	71.1	56.5	84.7
206	21.7	17.3	25.9



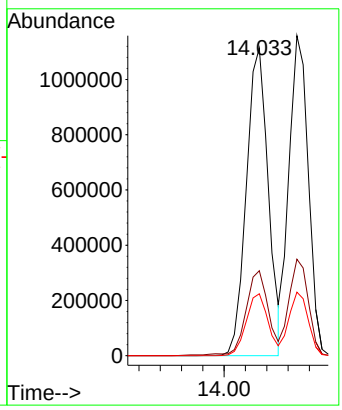


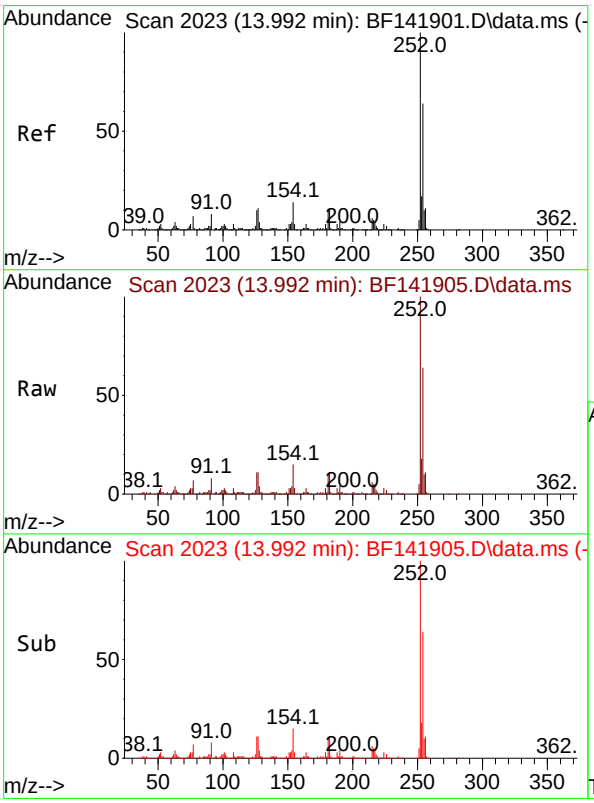
#81
Benzo(a)anthracene
Concen: 49.192 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1592035

Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.8	32.8
229	20.1	16.0	24.0

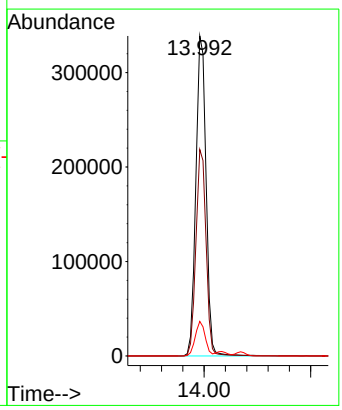


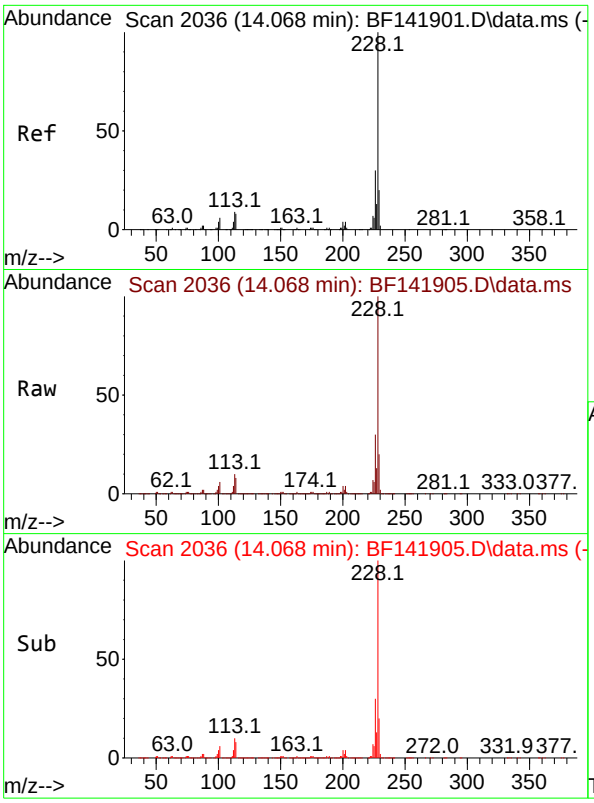


#82
3,3'-Dichlorobenzidine
Concen: 48.044 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:252 Resp: 449408

Ion	Ratio	Lower	Upper
252	100		
254	64.5	51.0	76.6
126	10.8	8.4	12.6



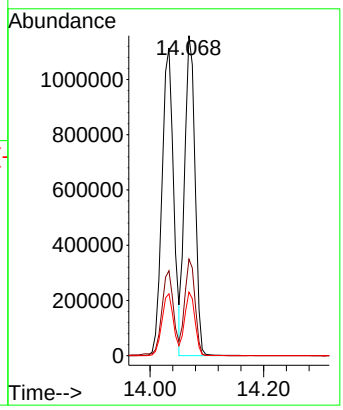


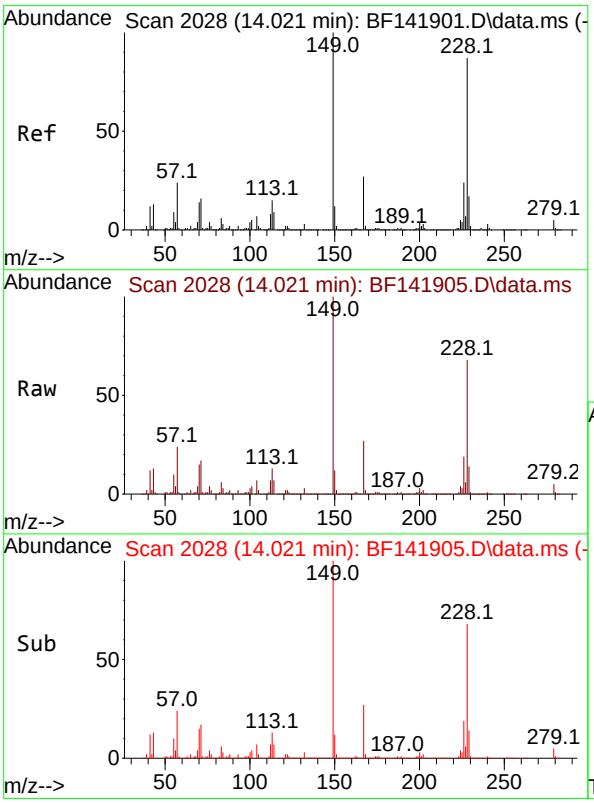
#83
Chrysene
Concen: 50.404 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1465389

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.1	36.1
229	19.9	15.7	23.5

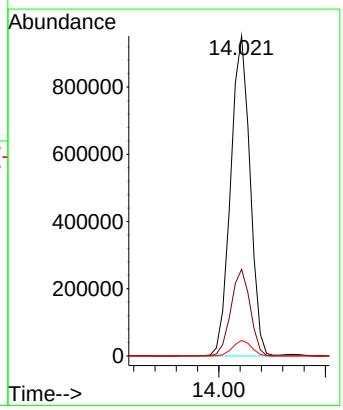


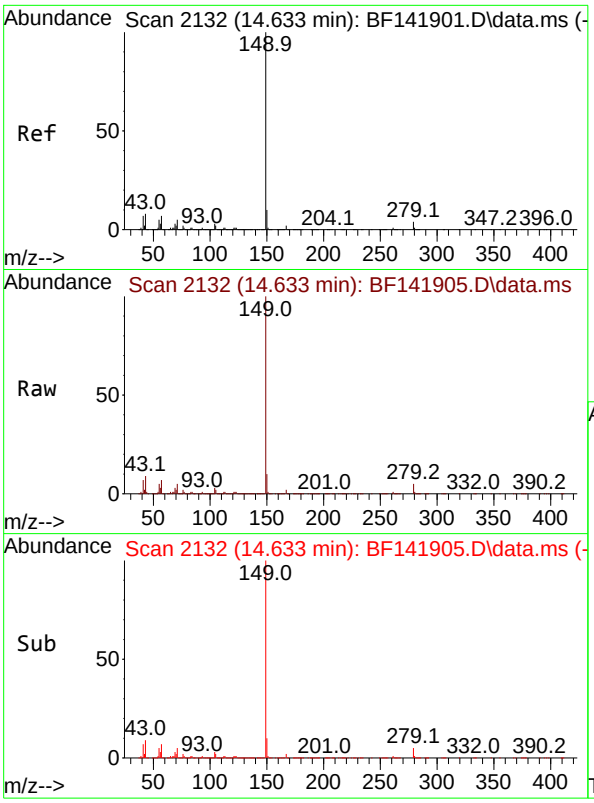


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.747 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:149 Resp: 1203021

Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.4	32.0
279	4.9	3.8	5.6



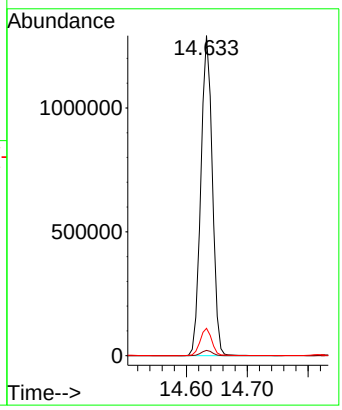


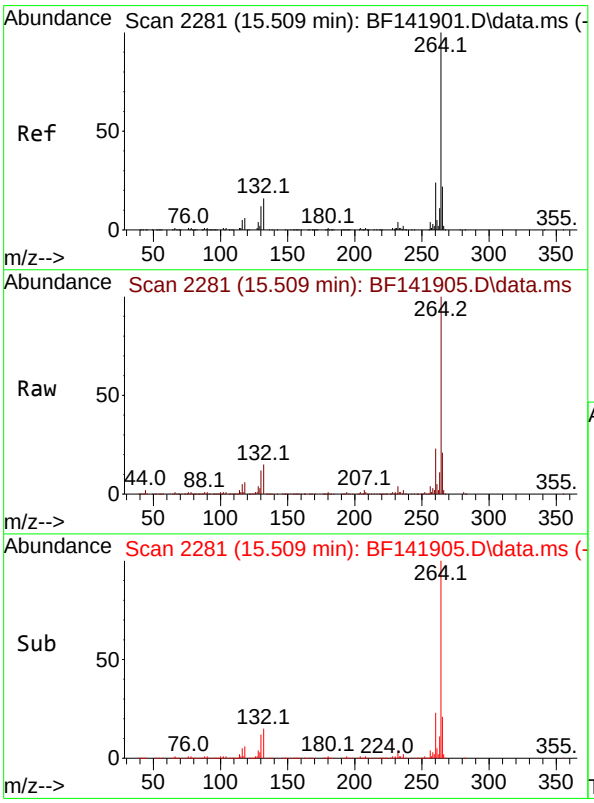
#85
Di-n-octyl phthalate
Concen: 53.307 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 1692206

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.7	6.9	10.3

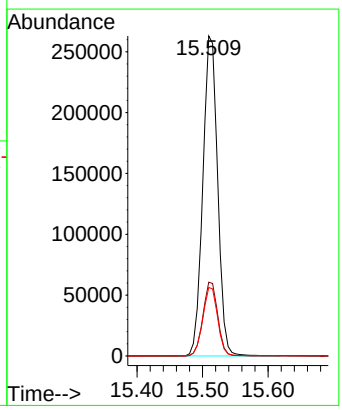


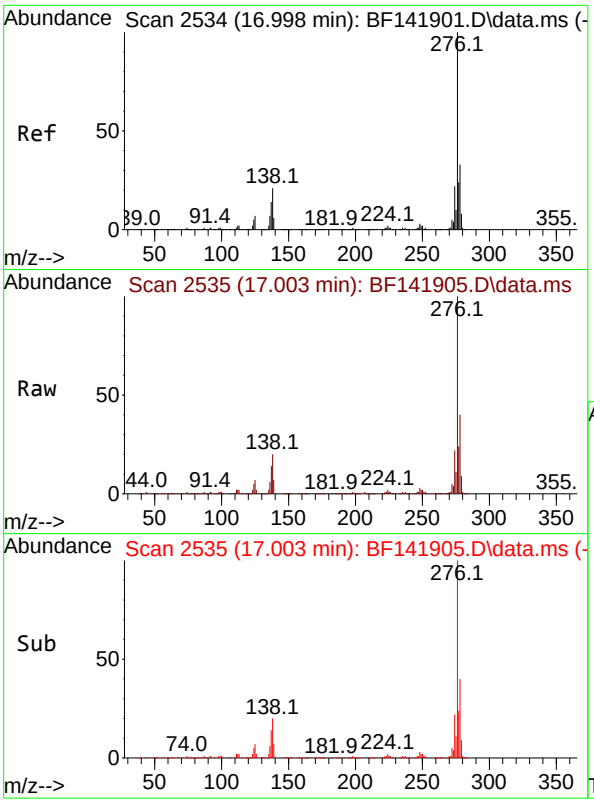


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:264 Resp: 413564

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.1	28.7
265	21.4	17.5	26.3



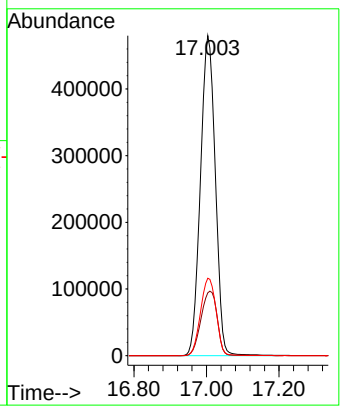


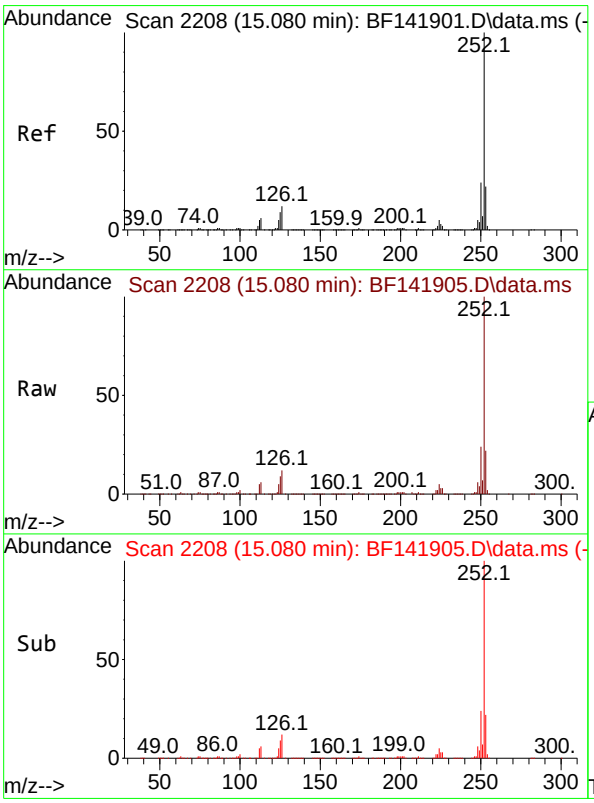
#87
Indeno(1,2,3-cd)pyrene
Concen: 50.969 ng
RT: 17.003 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 1366974

Ion	Ratio	Lower	Upper
276	100		
138	21.9	18.4	27.6
277	25.3	20.3	30.5

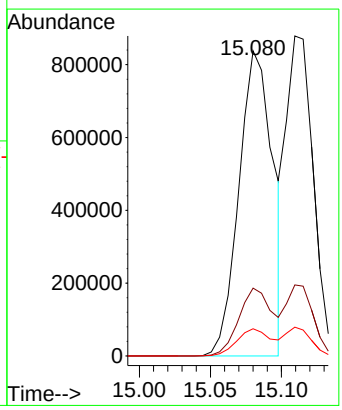


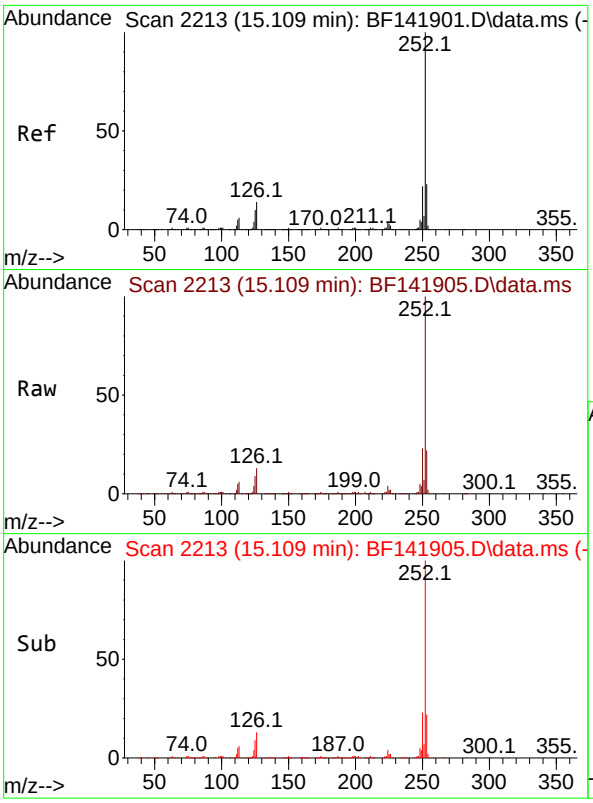


#88
Benzo(b)fluoranthene
Concen: 49.625 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:252 Resp: 1392083

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	8.9	7.0	10.4



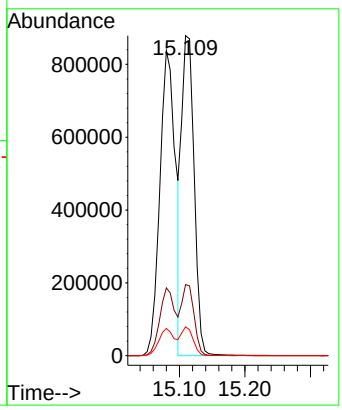


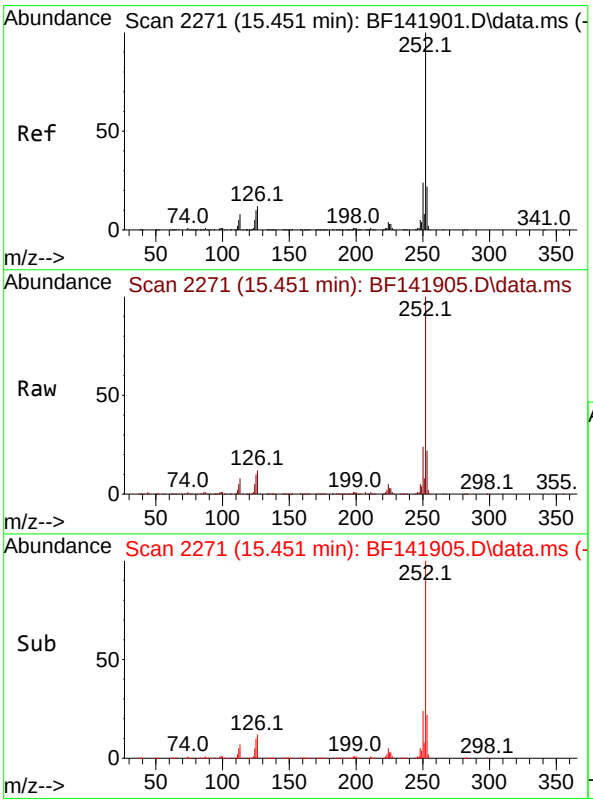
#89
Benzo(k)fluoranthene
Concen: 47.638 ng
RT: 15.109 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 1167351

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	9.0	7.2	10.8

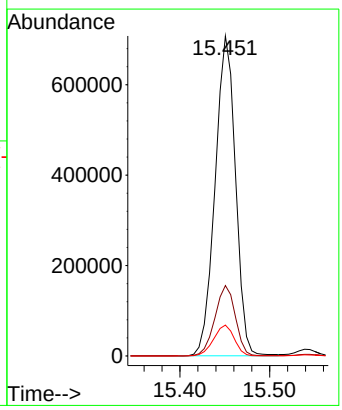


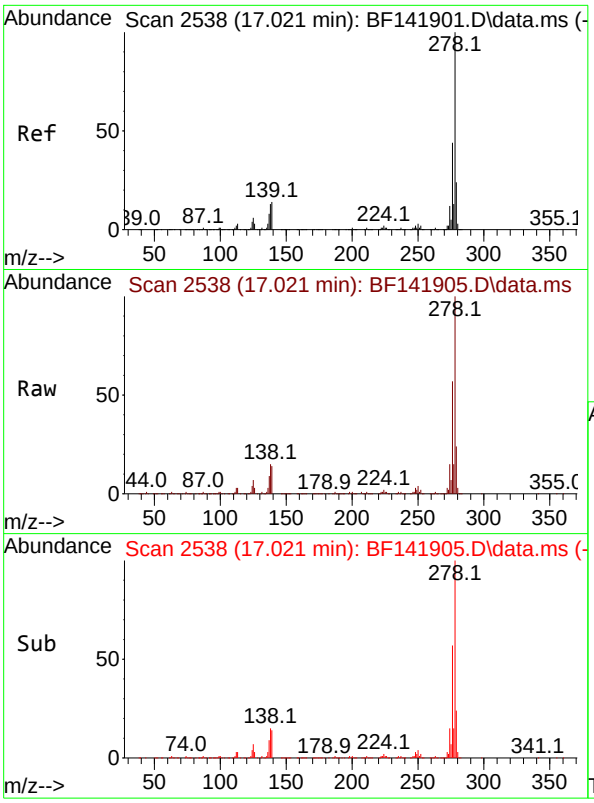


#90
Benzo(a)pyrene
Concen: 50.591 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:252 Resp: 1119256

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	9.6	7.8	11.8



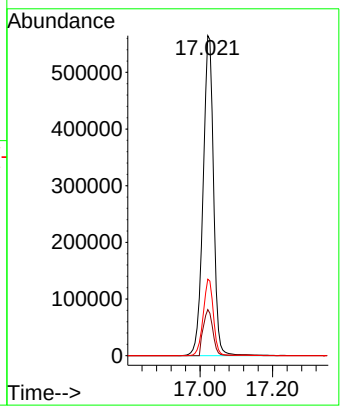


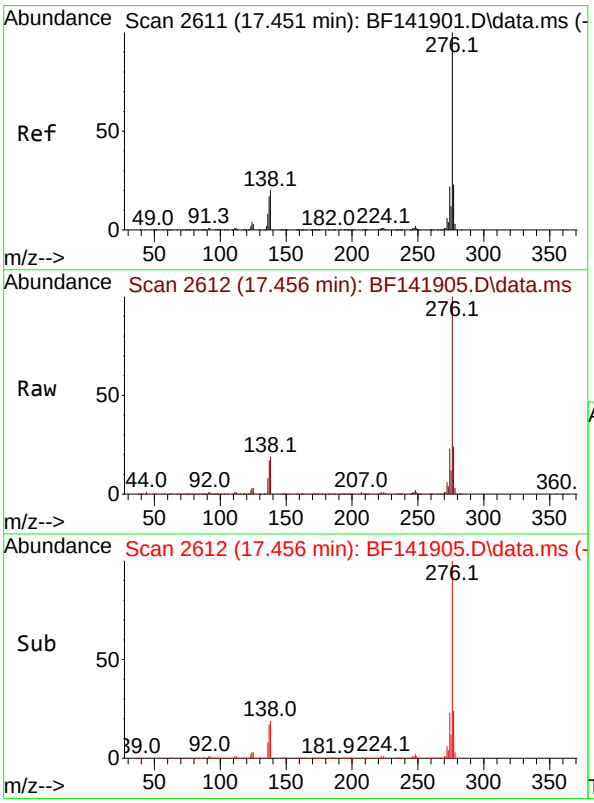
#91
Dibenzo(a,h)anthracene
Concen: 51.149 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 1131875

Ion	Ratio	Lower	Upper
278	100		
139	14.4	11.4	17.2
279	23.9	18.8	28.2

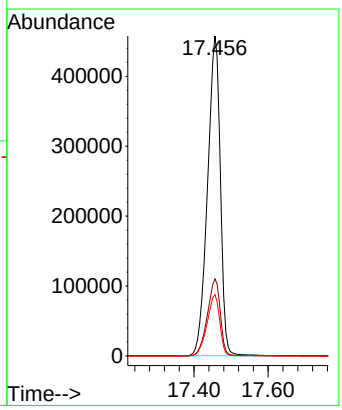




#92
Benzo(g,h,i)perylene
Concen: 50.106 ng
RT: 17.456 min Scan# 2612
Delta R.T. 0.006 min
Lab File: BF141905.D
Acq: 10 Mar 2025 15:20

Tgt Ion:276 Resp: 1099760

Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.7	28.1
138	19.2	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141906.D
Acq On : 10 Mar 2025 15:53
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Quant Time: Mar 10 16:15:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	209747	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	840616	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	483165	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	813672	20.000	ng	0.00
76) Chrysene-d12	14.039	240	523890	20.000	ng	0.00
86) Perylene-d12	15.510	264	426422	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	965473	76.823	ng	0.00
7) Phenol-d6	6.504	99	1231487	76.962	ng	0.00
23) Nitrobenzene-d5	7.445	82	1179480	78.962	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	486334	79.342	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2399526	75.528	ng	0.00
79) Terphenyl-d14	12.986	244	2825870	79.748	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	203628	38.670	ng	99
3) Pyridine	3.428	79	504398	39.050	ng	99
4) n-Nitrosodimethylamine	3.387	42	239879	38.959	ng	97
6) Aniline	6.545	93	614962	38.958	ng	98
8) 2-Chlorophenol	6.669	128	539701	38.721	ng	99
9) Benzaldehyde	6.434	77	339615	37.950	ng	99
10) Phenol	6.516	94	658449	39.115	ng	97
11) bis(2-Chloroethyl)ether	6.616	93	483438	38.246	ng	99
12) 1,3-Dichlorobenzene	6.822	146	577700	38.391	ng	100
13) 1,4-Dichlorobenzene	6.898	146	584132	38.366	ng	99
14) 1,2-Dichlorobenzene	7.051	146	555621	38.744	ng	100
15) Benzyl Alcohol	7.022	79	509792	39.408	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.157	45	569783	37.338	ng	100
17) 2-Methylphenol	7.128	107	429715	38.775	ng	99
18) Hexachloroethane	7.392	117	221507	38.797	ng	100
19) n-Nitroso-di-n-propyla...	7.298	70	391096	38.038	ng	100
20) 3+4-Methylphenols	7.281	107	548208	38.619	ng	99
22) Acetophenone	7.292	105	757917	37.650	ng	98
24) Nitrobenzene	7.463	77	578836	38.980	ng	99
25) Isophorone	7.704	82	1007659	38.163	ng	100
26) 2-Nitrophenol	7.775	139	294657	40.429	ng	96
27) 2,4-Dimethylphenol	7.810	122	385504	38.414	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	628379	37.943	ng	100
29) 2,4-Dichlorophenol	8.016	162	485205	38.952	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	526250	38.336	ng	100
31) Naphthalene	8.187	128	1633401	37.827	ng	100
32) Benzoic acid	7.928	122	373179	42.303	ng	99
33) 4-Chloroaniline	8.228	127	592172	38.847	ng	99
34) Hexachlorobutadiene	8.304	225	347789	38.849	ng	99
35) Caprolactam	8.604	113	141562	37.276	ng	98
36) 4-Chloro-3-methylphenol	8.704	107	535661	38.550	ng	99
37) 2-Methylnaphthalene	8.875	142	1094895	37.935	ng	100
38) 1-Methylnaphthalene	8.975	142	1071850	38.484	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	561804	38.191	ng	99
41) Hexachlorocyclopentadiene	9.028	237	220386	38.281	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	377743	39.292	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141906.D
Acq On : 10 Mar 2025 15:53
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Quant Time: Mar 10 16:15:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

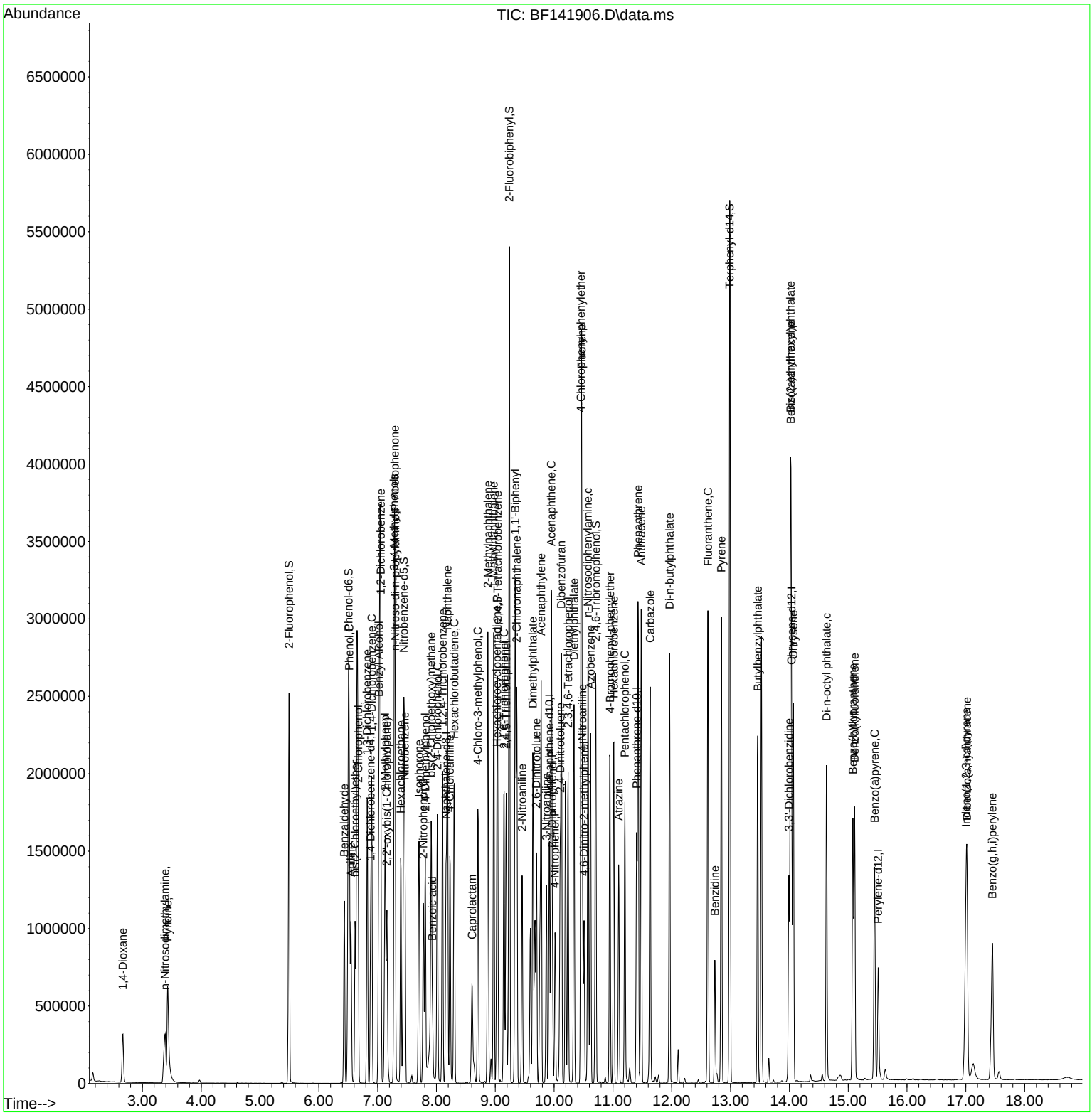
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	372564	38.263	ng	99
46) 1,1'-Biphenyl	9.339	154	1401736	38.182	ng	100
47) 2-Chloronaphthalene	9.363	162	1042241	38.090	ng	99
48) 2-Nitroaniline	9.457	65	308259	38.908	ng	99
49) Acenaphthylene	9.781	152	1531852	37.725	ng	100
50) Dimethylphthalate	9.639	163	1272572	37.611	ng	100
51) 2,6-Dinitrotoluene	9.698	165	274531	38.970	ng	99
52) Acenaphthene	9.951	154	1095922	38.405	ng	100
53) 3-Nitroaniline	9.869	138	275555	38.561	ng	99
54) 2,4-Dinitrophenol	9.969	184	142831	39.326	ng	95
55) Dibenzofuran	10.122	168	1540381	37.778	ng	100
56) 4-Nitrophenol	10.016	139	212462	39.425	ng	99
57) 2,4-Dinitrotoluene	10.104	165	361518	39.291	ng	99
58) Fluorene	10.469	166	1175392	37.381	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	346168	39.070	ng	99
60) Diethylphthalate	10.339	149	1293401	38.337	ng	100
61) 4-Chlorophenyl-phenyle...	10.457	204	627404	38.272	ng	99
62) 4-Nitroaniline	10.480	138	270993	38.953	ng	99
63) Azobenzene	10.622	77	1189121	37.911	ng	98
65) 4,6-Dinitro-2-methylph...	10.510	198	200888	41.415	ng	99
66) n-Nitrosodiphenylamine	10.575	169	1008029	38.283	ng	99
67) 4-Bromophenyl-phenylether	10.951	248	398683	39.015	ng	98
68) Hexachlorobenzene	11.016	284	445938	39.789	ng	96
69) Atrazine	11.098	200	257856	31.945	ng	99
70) Pentachlorophenol	11.204	266	289713	41.955	ng	100
71) Phenanthrene	11.427	178	1685770	38.357	ng	100
72) Anthracene	11.480	178	1675103	37.991	ng	100
73) Carbazole	11.633	167	1451333	38.167	ng	99
74) Di-n-butylphthalate	11.963	149	1953516	38.717	ng	100
75) Fluoranthene	12.616	202	1750317	37.545	ng	100
77) Benzidine	12.733	184	420377	57.513	ng	100
78) Pyrene	12.845	202	1746456	38.539	ng	100
80) Butylbenzylphthalate	13.463	149	723288	40.778	ng	99
81) Benzo(a)anthracene	14.027	228	1347977	39.211	ng	100
82) 3,3'-Dichlorobenzidine	13.992	252	380866	38.337	ng	100
83) Chrysene	14.068	228	1159074	37.195	ng	100
84) Bis(2-ethylhexyl)phtha...	14.021	149	1006170	41.142	ng	99
85) Di-n-octyl phthalate	14.633	149	1394136	40.971	ng	100
87) Indeno(1,2,3-cd)pyrene	17.004	276	1061096	38.467	ng	99
88) Benzo(b)fluoranthene	15.080	252	1166263	39.906	ng	99
89) Benzo(k)fluoranthene	15.110	252	869471	34.765	ng	100
90) Benzo(a)pyrene	15.451	252	882967	38.612	ng	99
91) Dibenzo(a,h)anthracene	17.021	278	886038	38.931	ng	99
92) Benzo(g,h,i)perylene	17.451	276	855812	38.051	ng	99

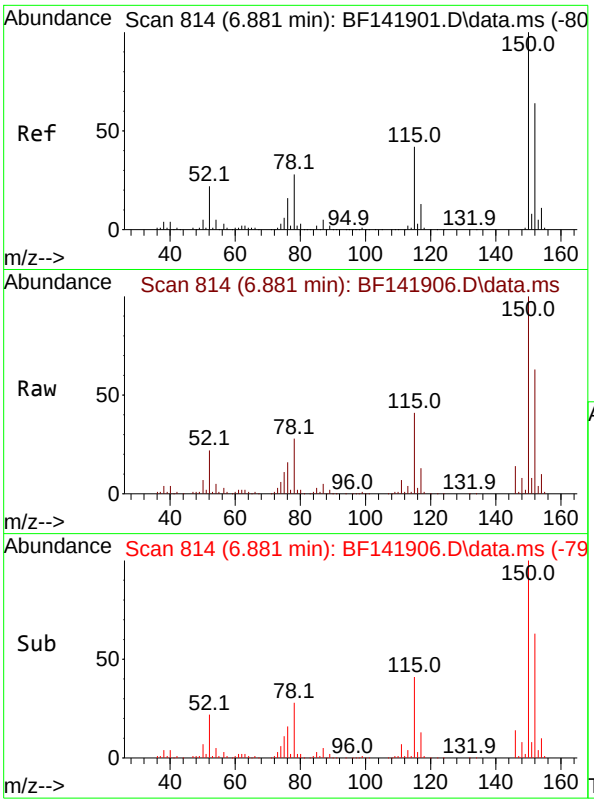
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141906.D
Acq On : 10 Mar 2025 15:53
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Quant Time: Mar 10 16:15:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration



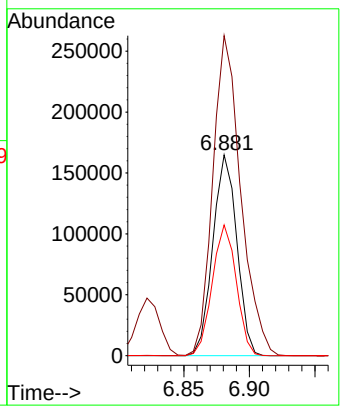


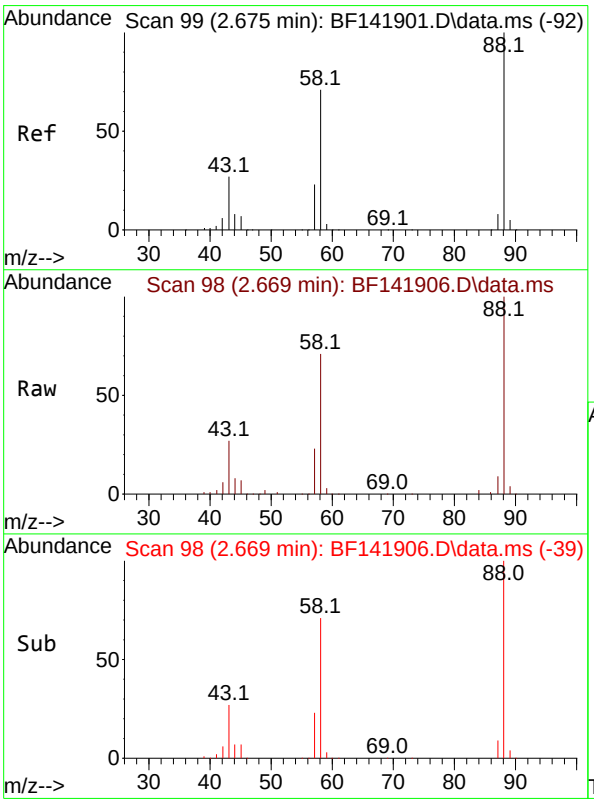
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:152 Resp: 209747

Ion	Ratio	Lower	Upper
152	100		
150	159.4	127.4	191.2
115	65.1	51.9	77.9

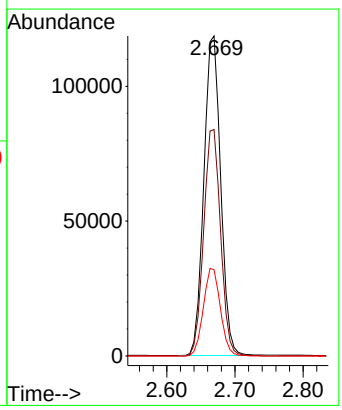


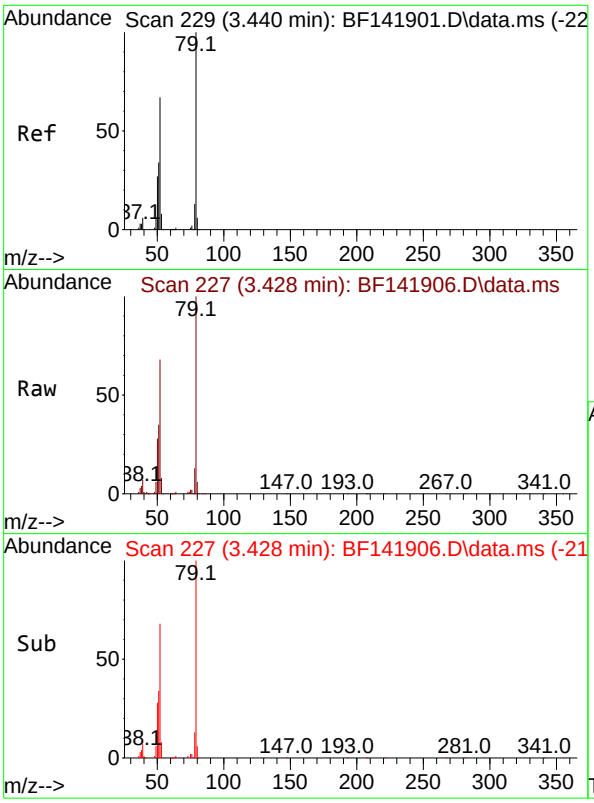


#2
1,4-Dioxane
Concen: 38.670 ng
RT: 2.669 min Scan# 98
Delta R.T. -0.006 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion: 88 Resp: 203628

Ion	Ratio	Lower	Upper
88	100		
58	71.2	57.4	86.2
43	27.6	21.5	32.3



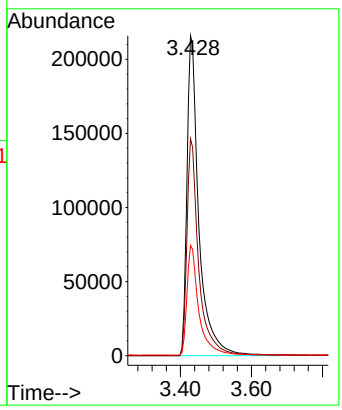


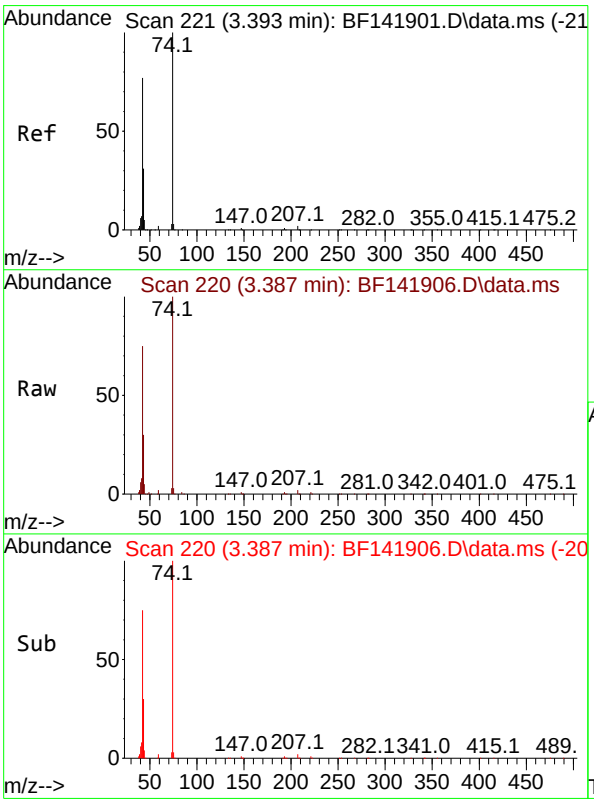
#3
Pyridine
Concen: 39.050 ng
RT: 3.428 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion: 79 Resp: 504398

Ion	Ratio	Lower	Upper
79	100		
52	67.8	53.3	79.9
51	34.5	27.6	41.4

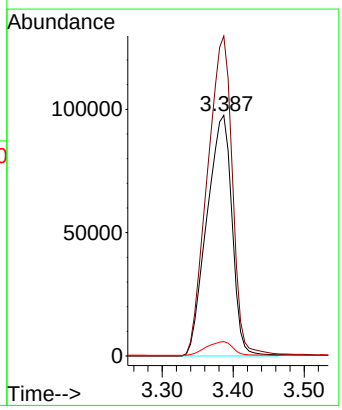


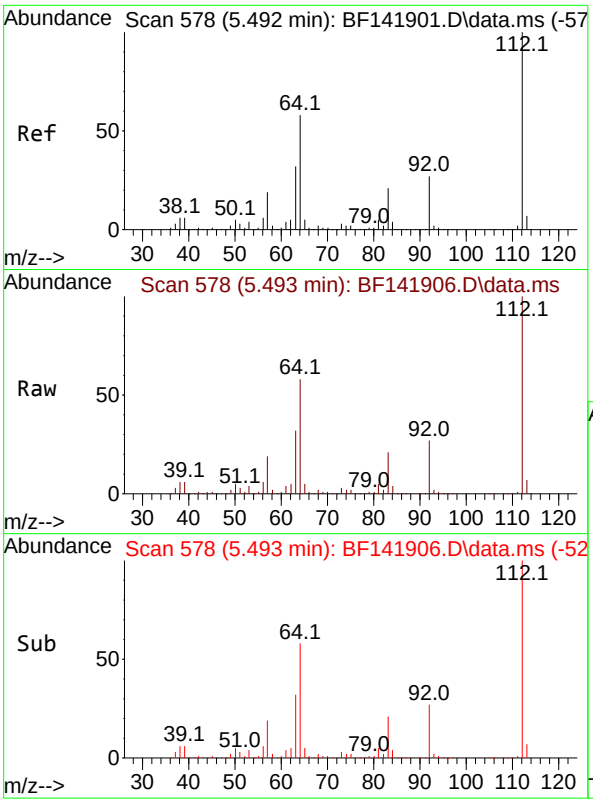


#4
n-Nitrosodimethylamine
Concen: 38.959 ng
RT: 3.387 min Scan# 220
Delta R.T. -0.006 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion: 42 Resp: 239879

Ion	Ratio	Lower	Upper
42	100		
74	133.0	103.4	155.0
44	6.0	5.0	7.4



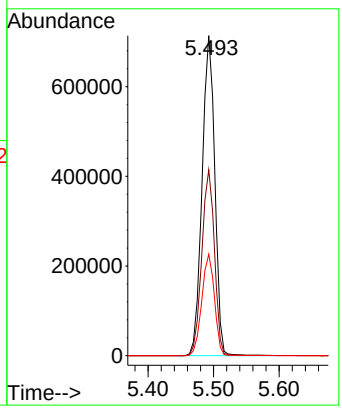


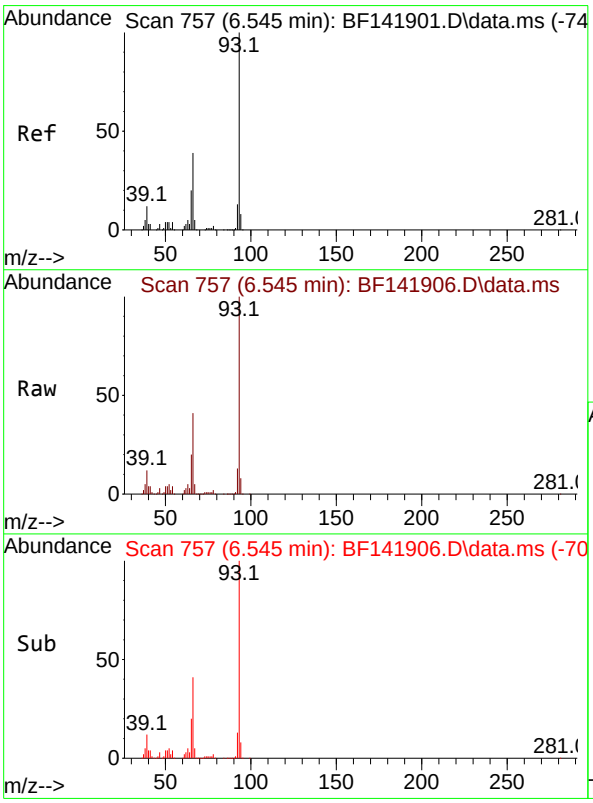
#5
2-Fluorophenol
Concen: 76.823 ng
RT: 5.493 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:112 Resp: 965473

Ion	Ratio	Lower	Upper
112	100		
64	58.1	46.5	69.7
63	31.7	25.4	38.2

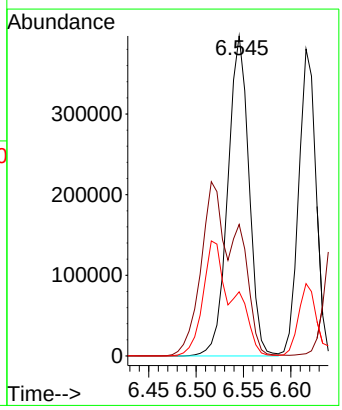


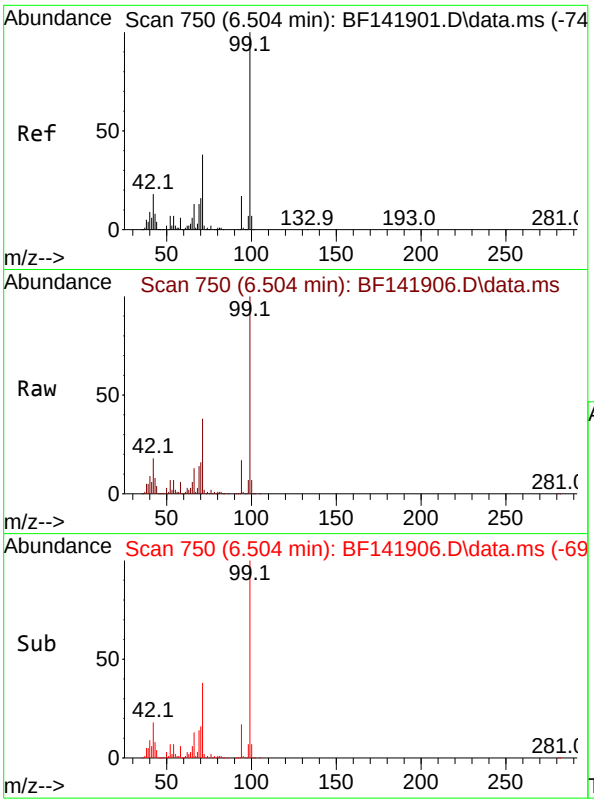


#6
Aniline
Concen: 38.958 ng
RT: 6.545 min Scan# 757
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion: 93 Resp: 614962

Ion	Ratio	Lower	Upper
93	100		
66	41.1	31.9	47.9
65	20.0	15.8	23.6



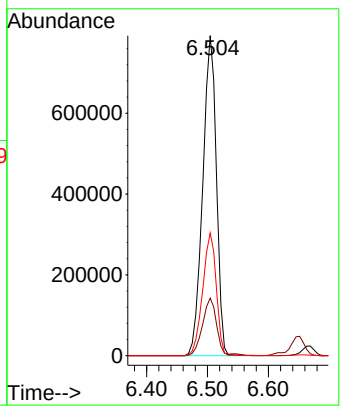


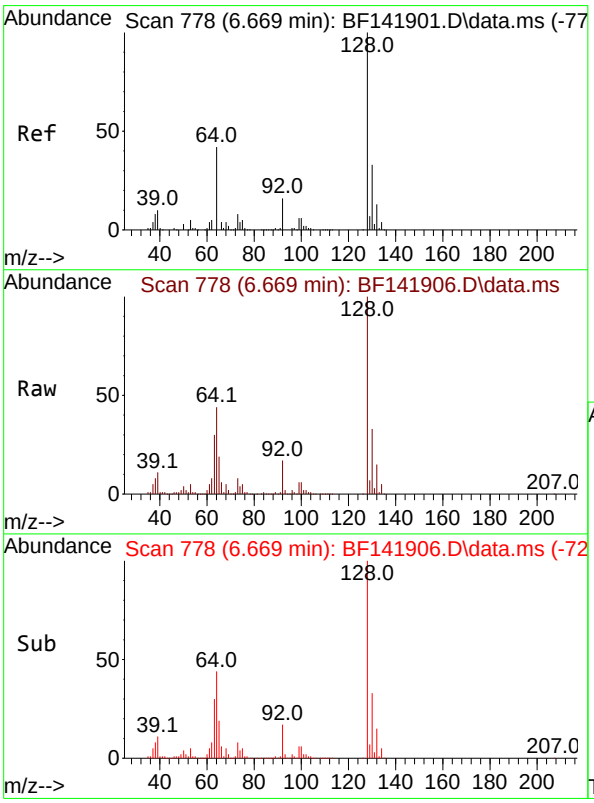
#7
Phenol-d6
Concen: 76.962 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion: 99 Resp: 1231487

Ion	Ratio	Lower	Upper
99	100		
42	18.0	14.6	21.8
71	38.3	30.8	46.2

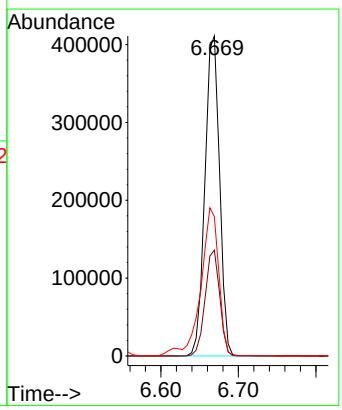


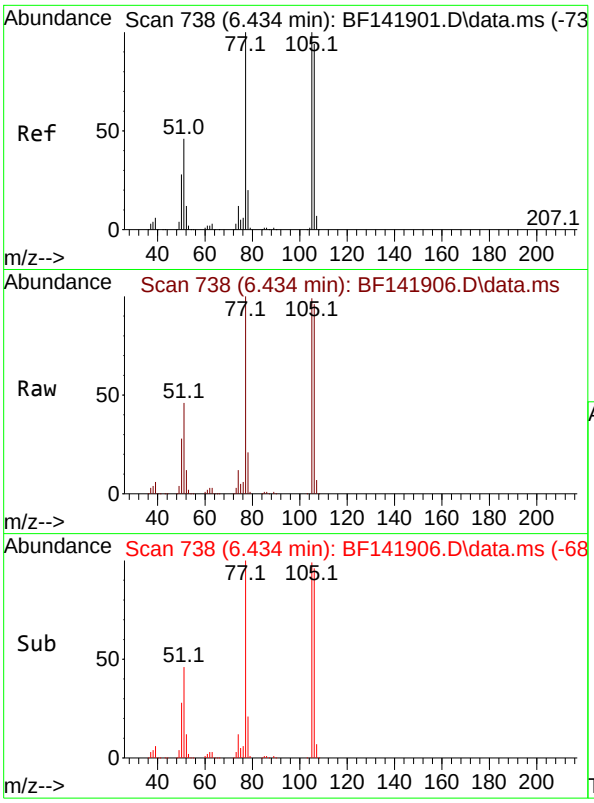


#8
2-Chlorophenol
Concen: 38.721 ng
RT: 6.669 min Scan# 778
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:128 Resp: 539701

Ion	Ratio	Lower	Upper
128	100		
130	33.0	12.8	52.8
64	43.6	24.4	64.4



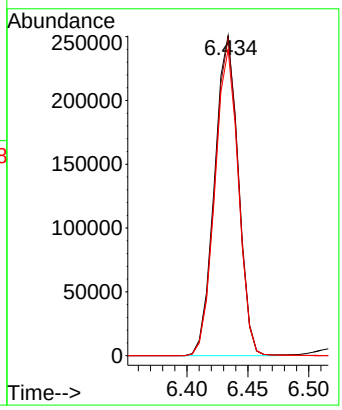


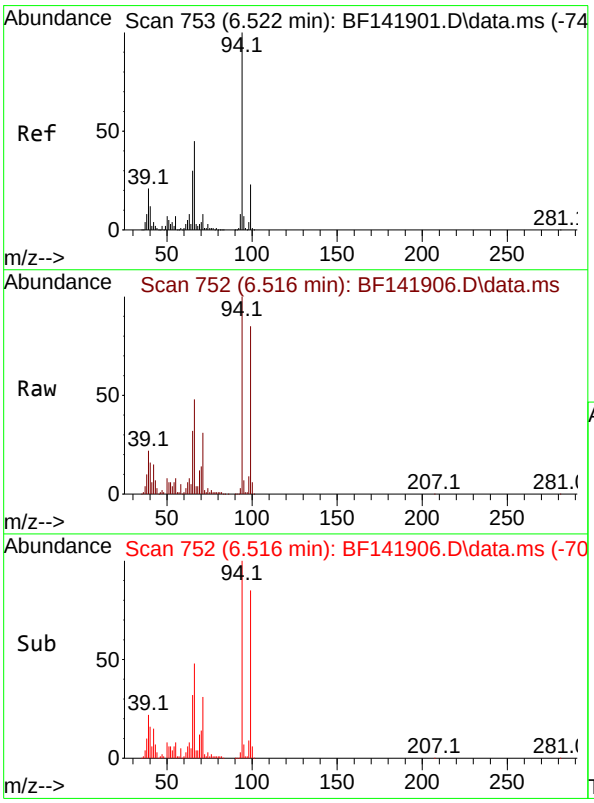
#9
Benzaldehyde
Concen: 37.950 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion: 77 Resp: 339615

Ion	Ratio	Lower	Upper
77	100		
105	99.2	80.0	120.0
106	95.7	74.5	114.5

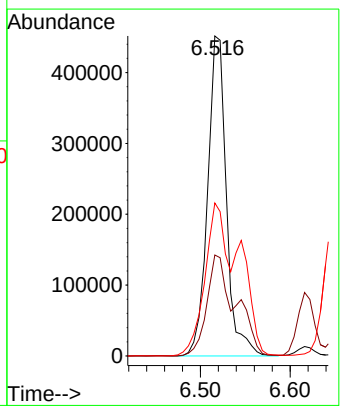


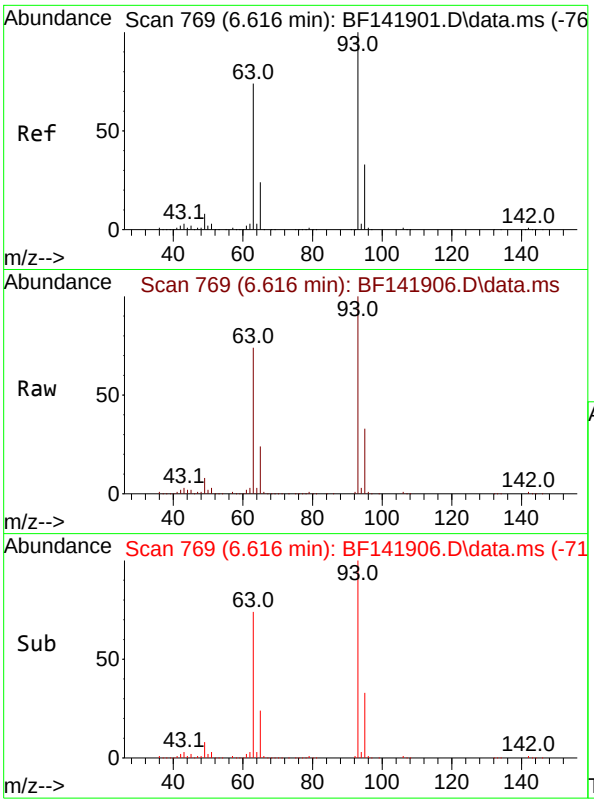


#10
Phenol
Concen: 39.115 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.006 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion: 94 Resp: 658449

Ion	Ratio	Lower	Upper
94	100		
65	31.6	10.5	50.5
66	47.8	25.8	65.8



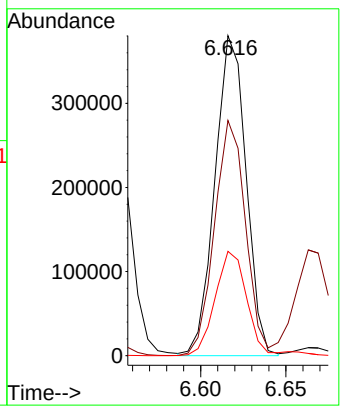


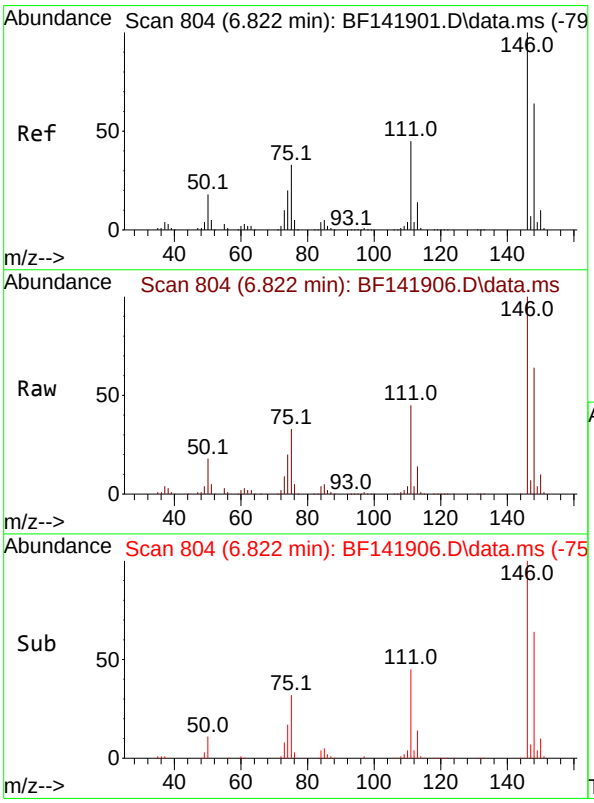
#11
bis(2-Chloroethyl)ether
Concen: 38.246 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion: 93 Resp: 483438

Ion	Ratio	Lower	Upper
93	100		
63	73.5	53.0	93.0
95	32.6	12.9	52.9

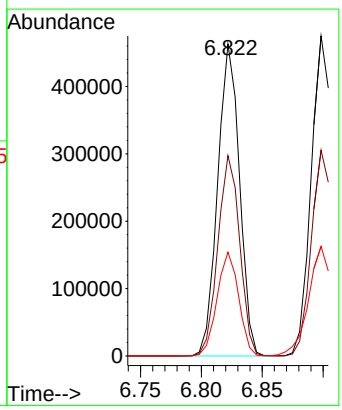


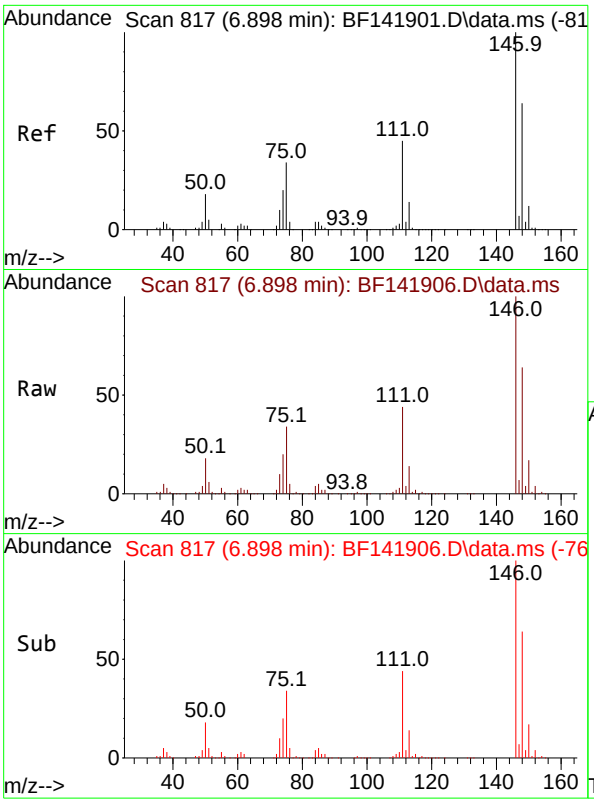


#12
1,3-Dichlorobenzene
Concen: 38.391 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:146 Resp: 577700

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.3	76.9
75	33.3	26.6	40.0



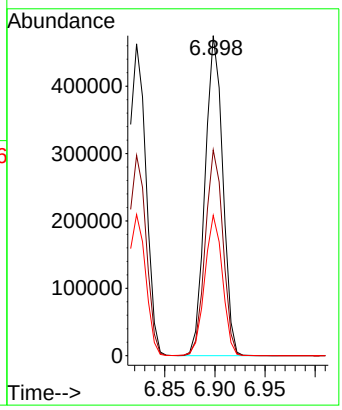


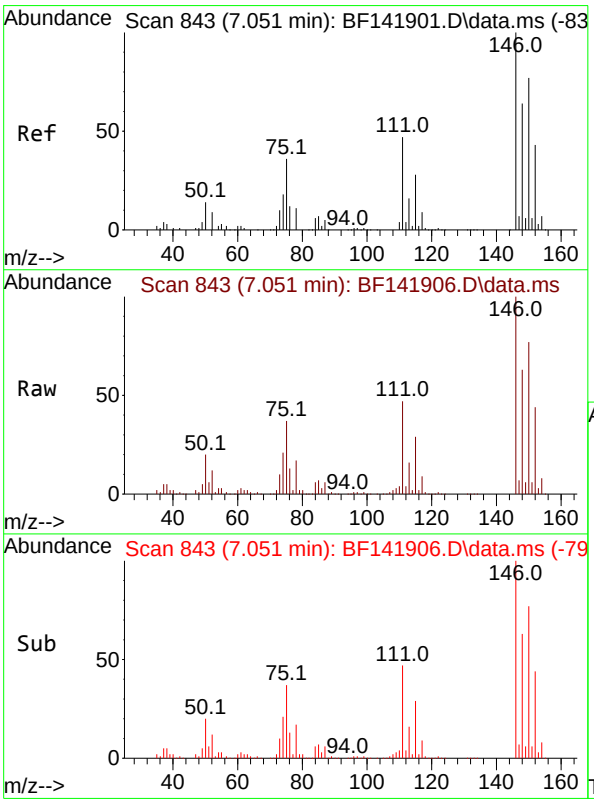
#13
1,4-Dichlorobenzene
Concen: 38.366 ng
RT: 6.898 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:146 Resp: 584132

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.0	76.6
111	43.8	35.7	53.5

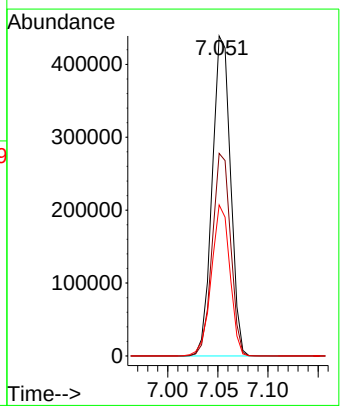


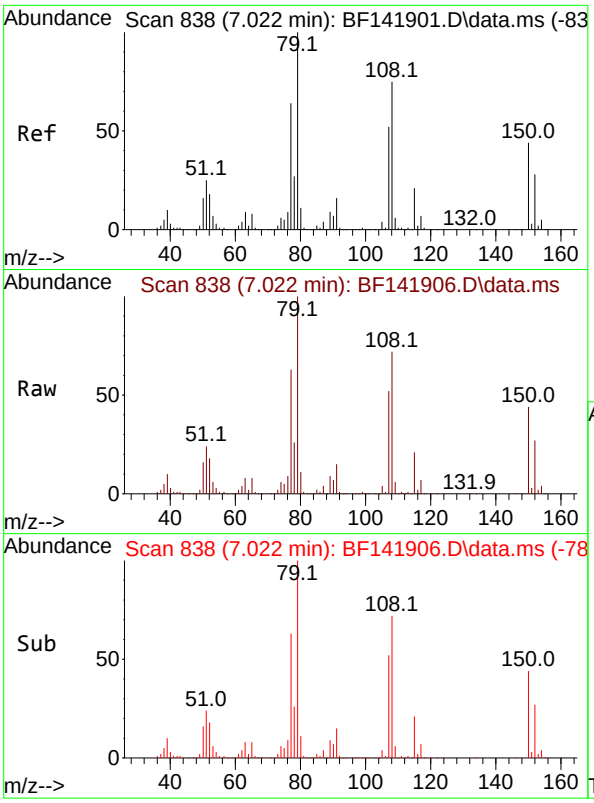


#14
1,2-Dichlorobenzene
Concen: 38.744 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:146 Resp: 555621

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.8	76.2
111	47.2	38.0	57.0



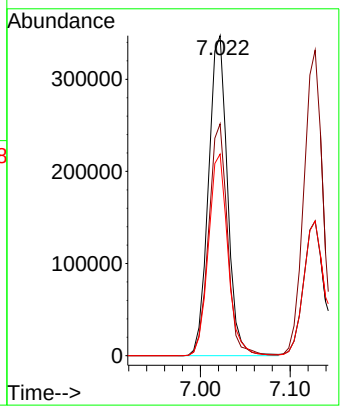


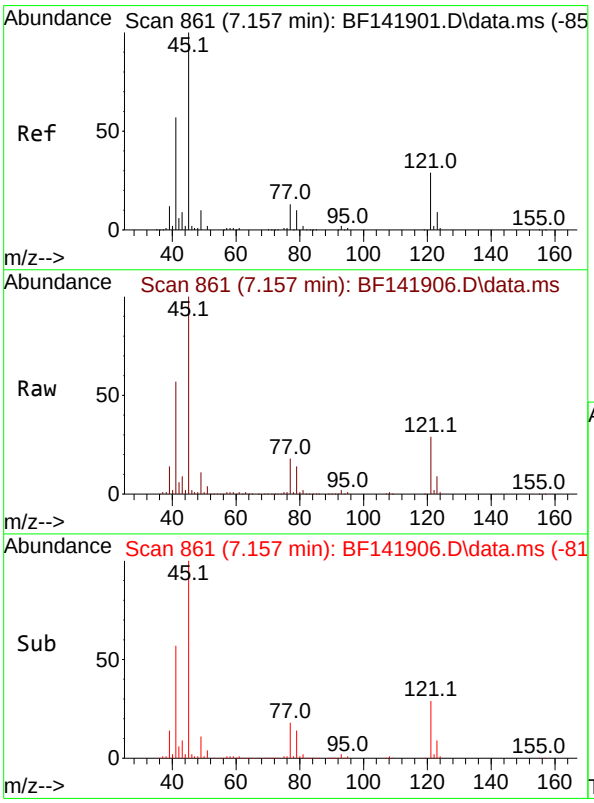
#15
Benzyl Alcohol
Concen: 39.408 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion: 79 Resp: 509792

Ion	Ratio	Lower	Upper
79	100		
108	72.4	59.7	89.5
77	63.0	51.0	76.6

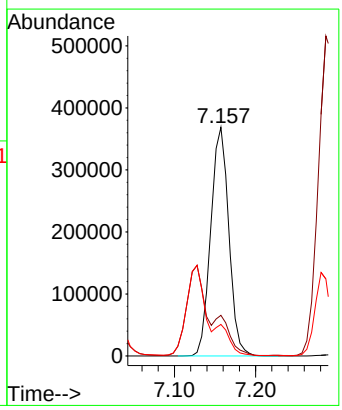


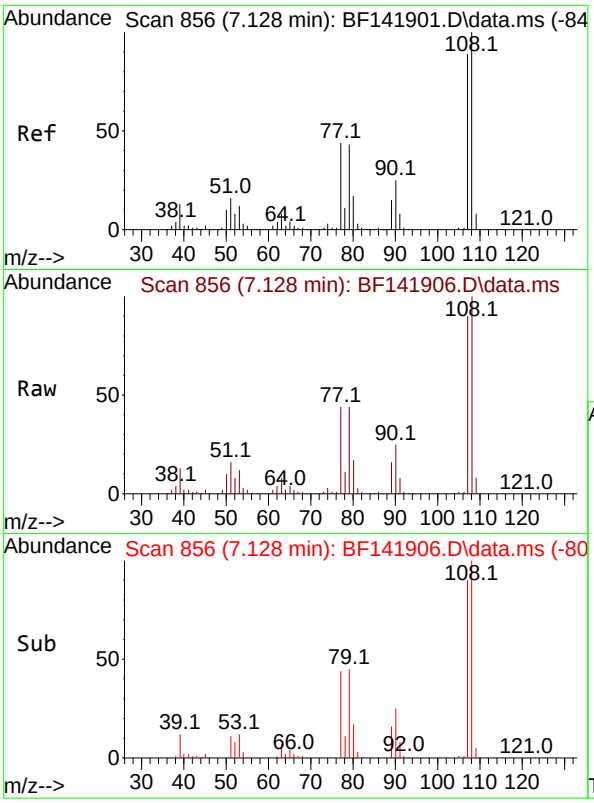


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.338 ng
RT: 7.157 min Scan# 861
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion: 45 Resp: 569783

Ion	Ratio	Lower	Upper
45	100		
77	17.8	0.0	37.8
79	13.8	0.0	34.2



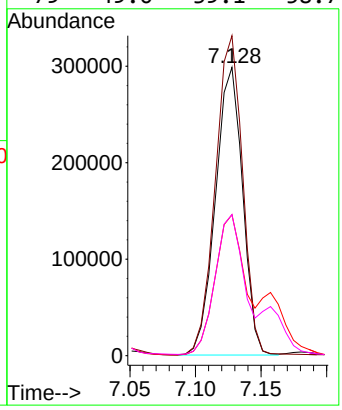


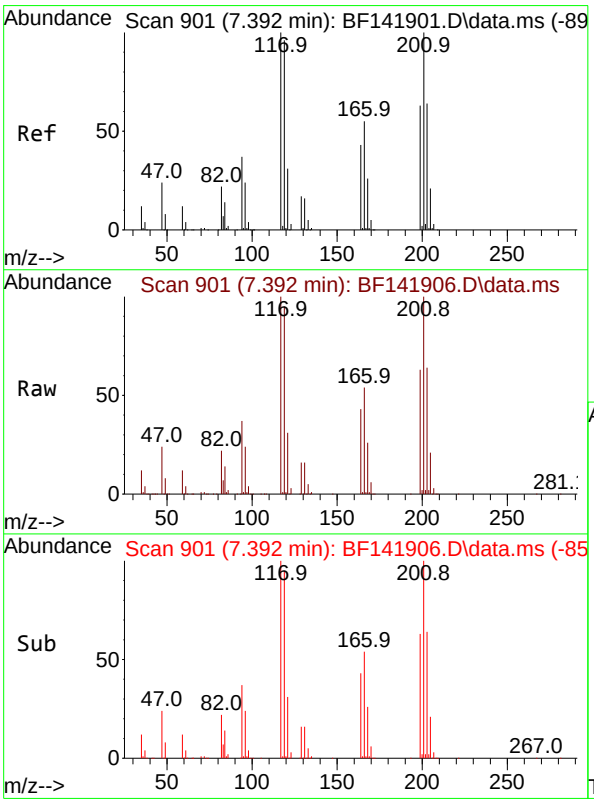
#17
2-Methylphenol
Concen: 38.775 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:107 Resp: 429715

Ion	Ratio	Lower	Upper
107	100		
108	111.0	90.2	135.2
77	48.9	39.6	59.4
79	49.0	39.1	58.7

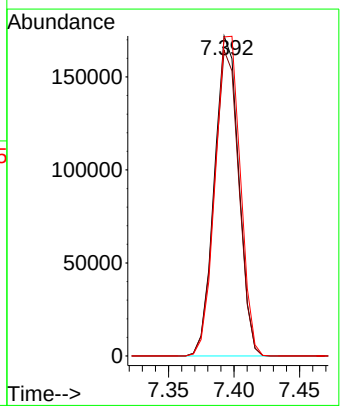


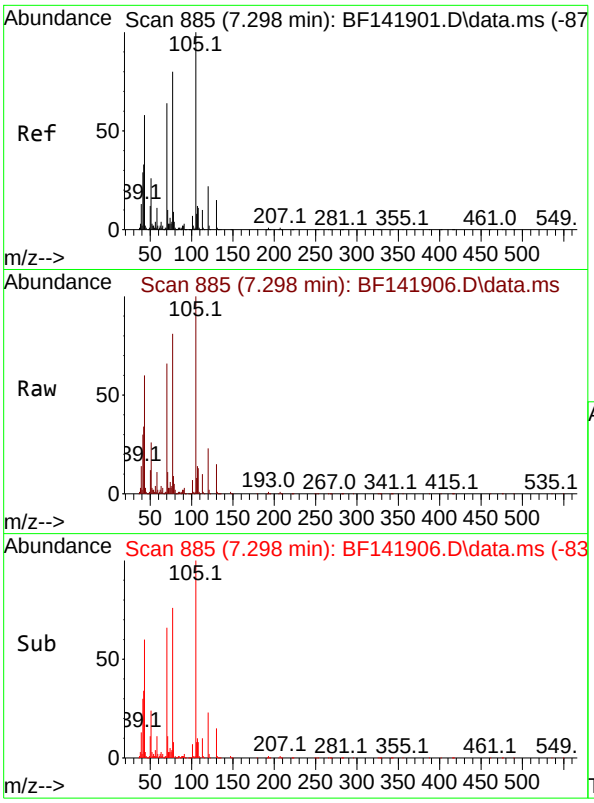


#18
Hexachloroethane
Concen: 38.797 ng
RT: 7.392 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:117 Resp: 221507

Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.9	115.3
201	99.7	79.9	119.9



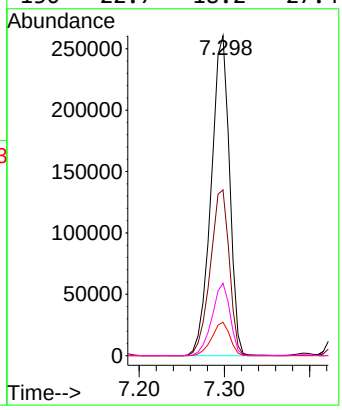


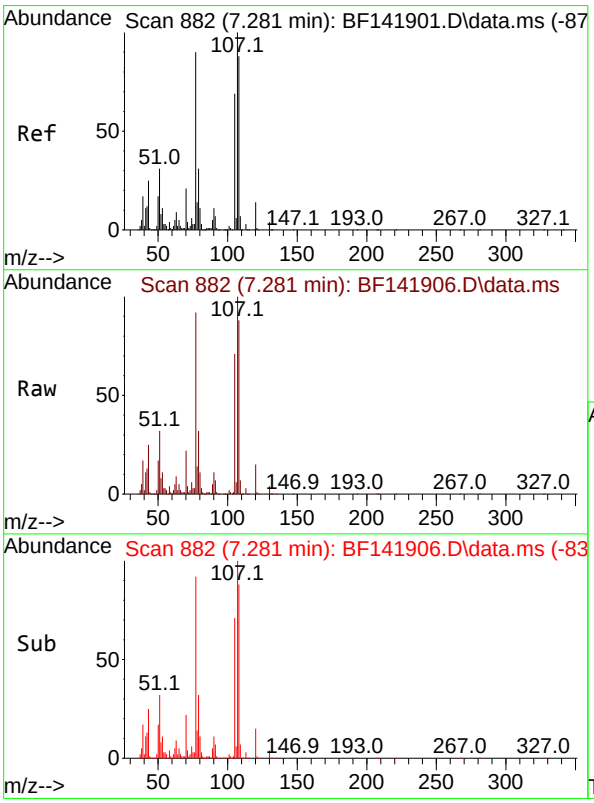
#19
n-Nitroso-di-n-propylamine
Concen: 38.038 ng
RT: 7.298 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion: 70 Resp: 391096

Ion	Ratio	Lower	Upper
70	100		
42	51.8	41.4	62.0
101	10.5	8.2	12.2
130	22.7	18.2	27.4

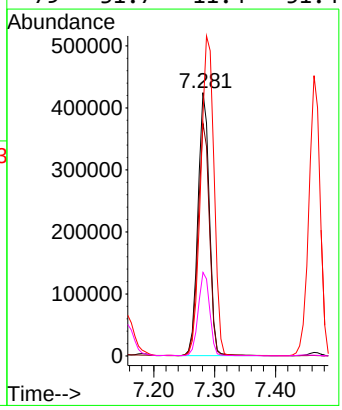


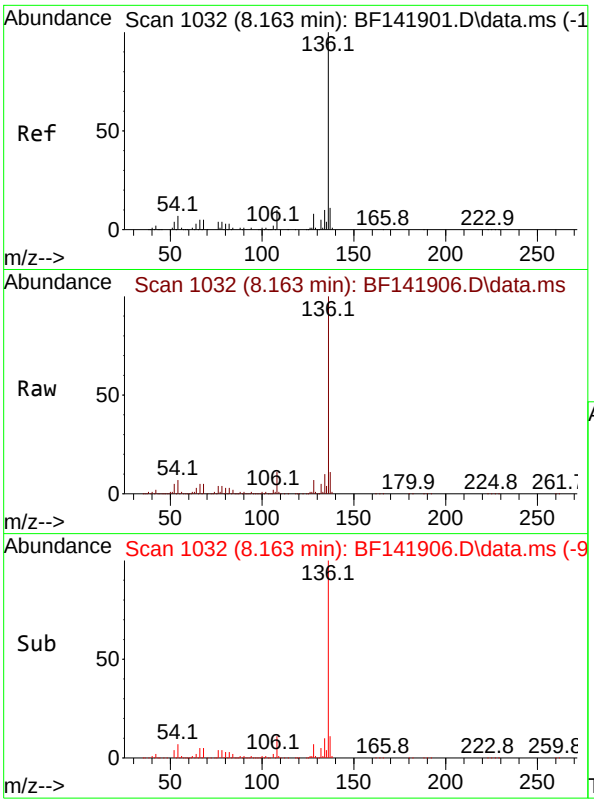


#20
3+4-Methylphenols
Concen: 38.619 ng
RT: 7.281 min Scan# 882
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:107 Resp: 548208

Ion	Ratio	Lower	Upper
107	100		
108	88.3	68.4	108.4
77	91.7	69.7	109.7
79	31.7	11.4	51.4



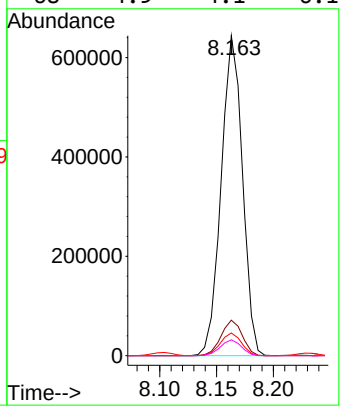


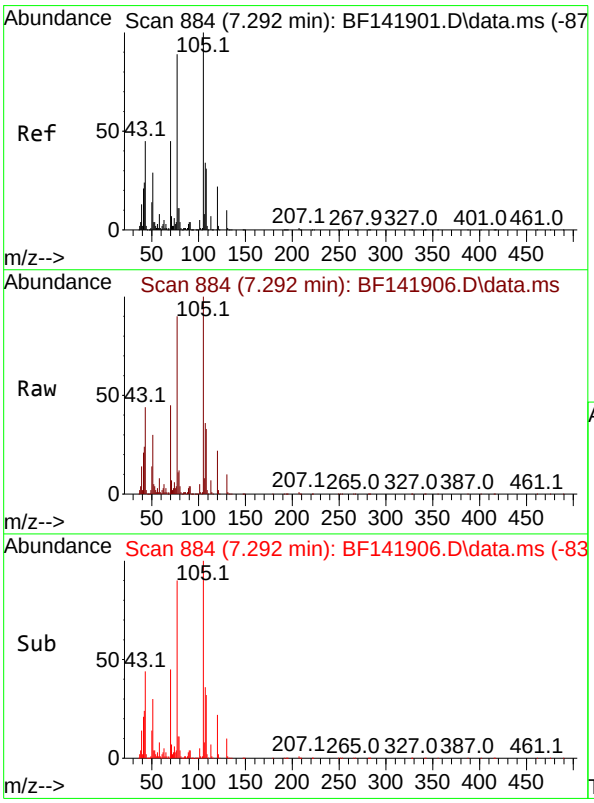
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:136 Resp: 840616

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	7.1	5.8	8.8
68	4.9	4.1	6.1

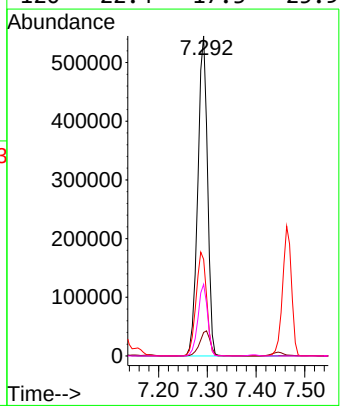


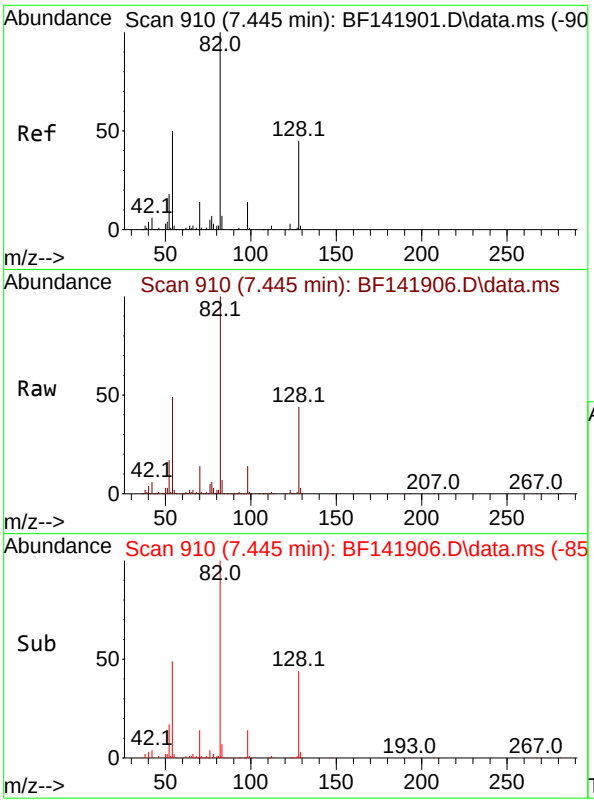


#22
Acetophenone
Concen: 37.650 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:105 Resp: 757917

Ion	Ratio	Lower	Upper
105	100		
71	7.4	5.8	8.8
51	30.2	23.4	35.0
120	22.4	17.3	25.9



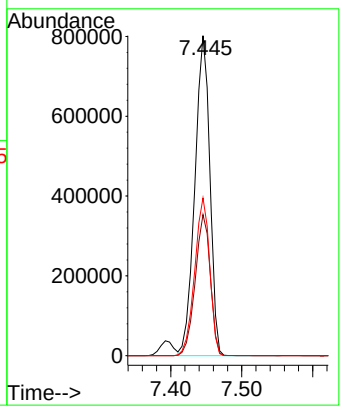


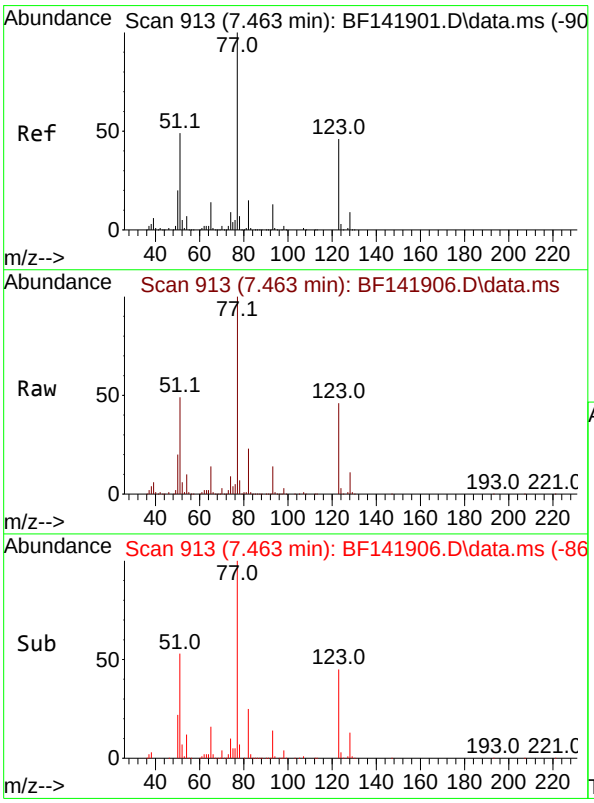
#23
Nitrobenzene-d5
Concen: 78.962 ng
RT: 7.445 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion: 82 Resp: 1179480

Ion	Ratio	Lower	Upper
82	100		
128	44.1	36.0	54.0
54	49.3	39.6	59.4

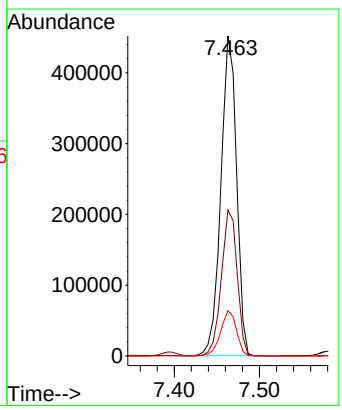


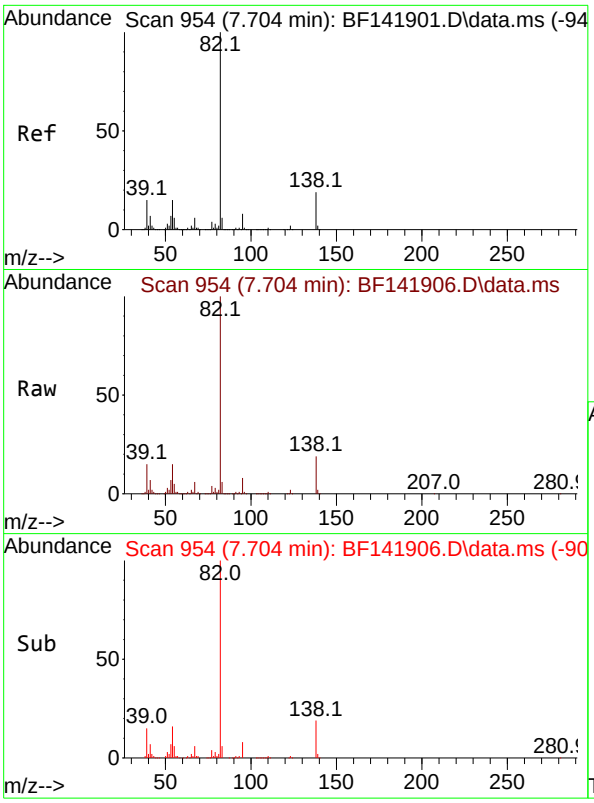


#24
Nitrobenzene
Concen: 38.980 ng
RT: 7.463 min Scan# 913
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion: 77 Resp: 578836

Ion	Ratio	Lower	Upper
77	100		
123	45.6	37.0	55.4
65	14.2	11.3	16.9



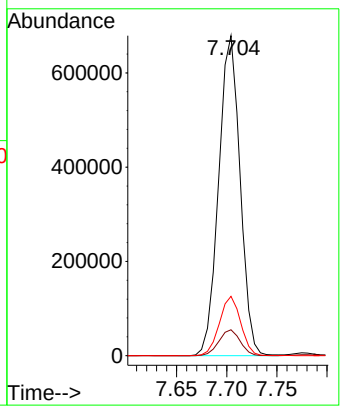


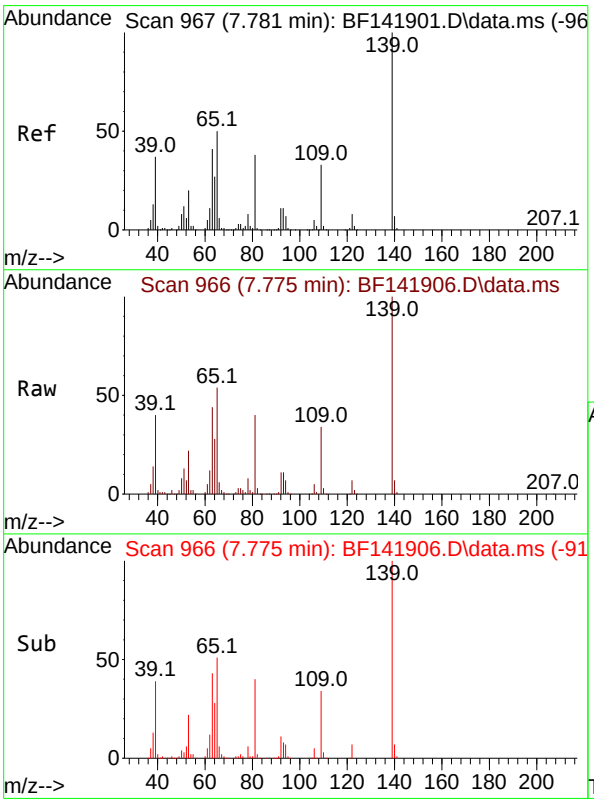
#25
Isophorone
Concen: 38.163 ng
RT: 7.704 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion: 82 Resp: 1007659

Ion	Ratio	Lower	Upper
82	100		
95	8.1	6.4	9.6
138	18.6	14.9	22.3

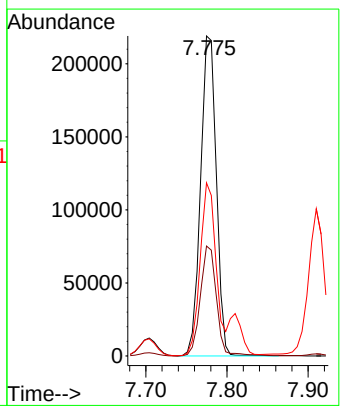


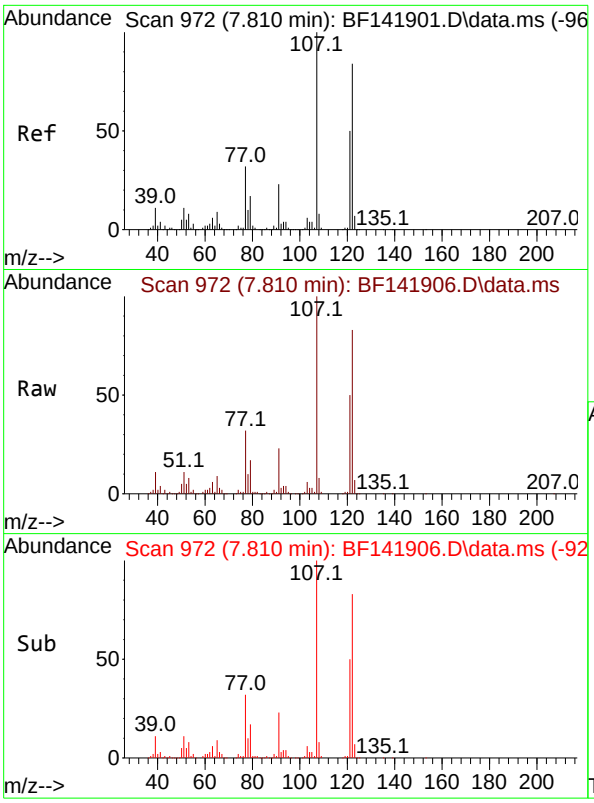


#26
2-Nitrophenol
Concen: 40.429 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:139 Resp: 294657

Ion	Ratio	Lower	Upper
139	100		
109	34.3	26.5	39.7
65	54.1	40.3	60.5



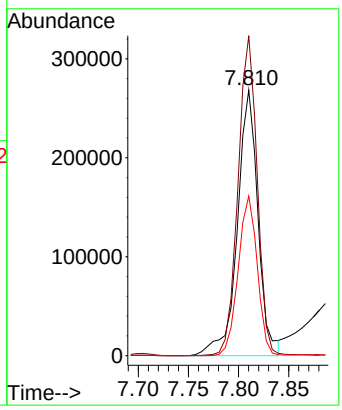


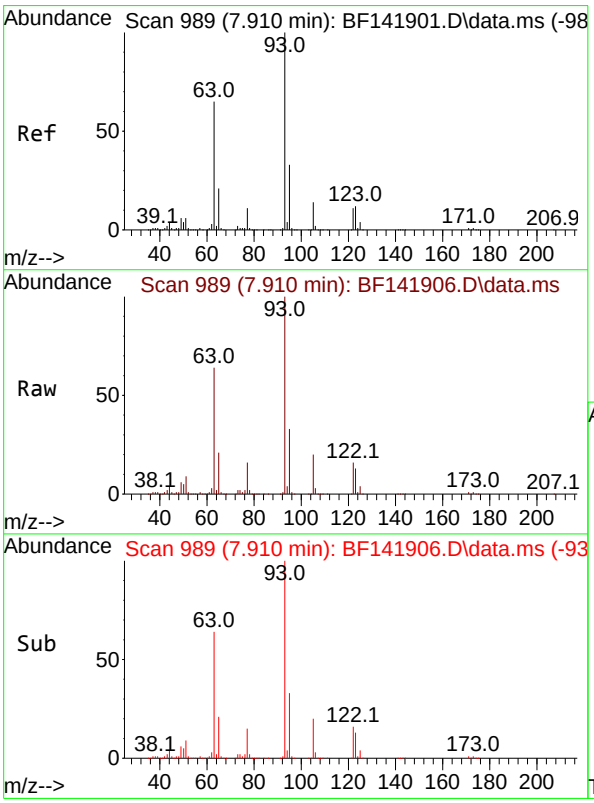
#27
2,4-Dimethylphenol
Concen: 38.414 ng
RT: 7.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:122 Resp: 385504

Ion	Ratio	Lower	Upper
122	100		
107	120.5	94.8	142.2
121	60.1	47.8	71.6

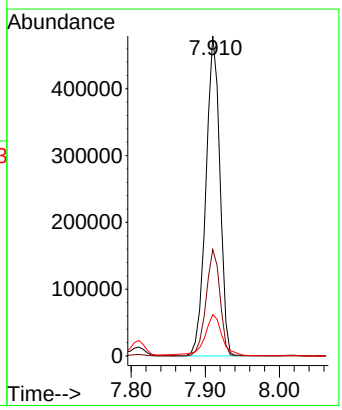


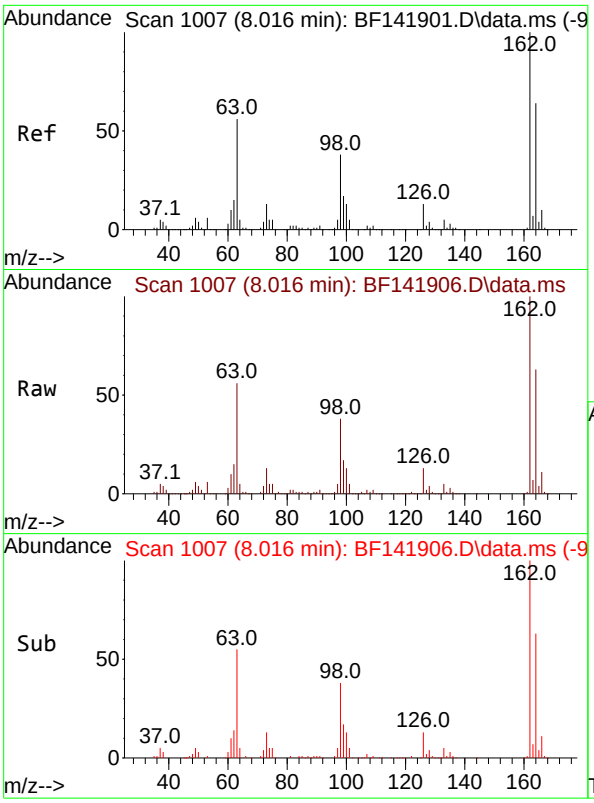


#28
bis(2-Chloroethoxy)methane
Concen: 37.943 ng
RT: 7.910 min Scan# 989
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion: 93 Resp: 628379

Ion	Ratio	Lower	Upper
93	100		
95	33.3	26.6	40.0
123	12.9	10.2	15.4



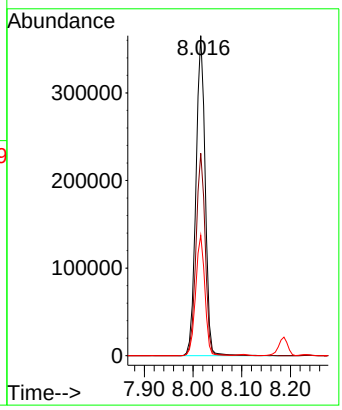


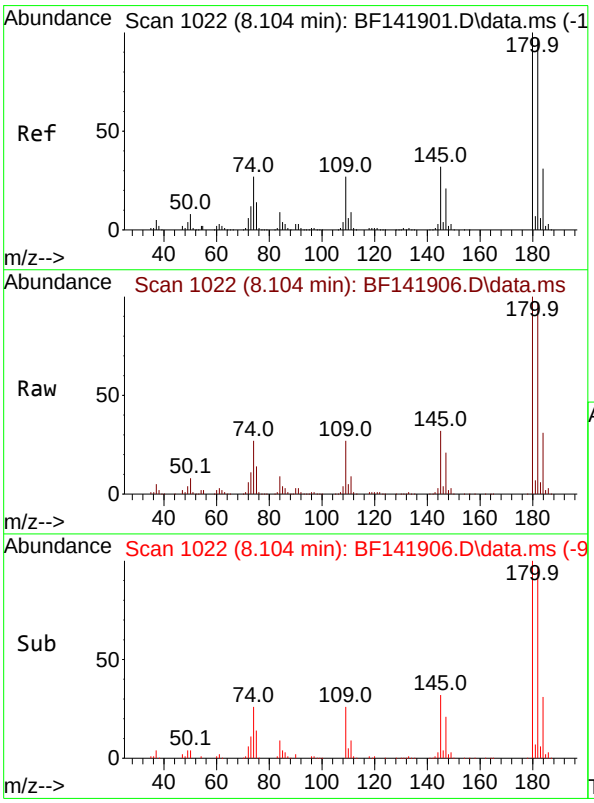
#29
2,4-Dichlorophenol
Concen: 38.952 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:162 Resp: 485205

Ion	Ratio	Lower	Upper
162	100		
164	63.3	43.8	83.8
98	37.6	18.1	58.1

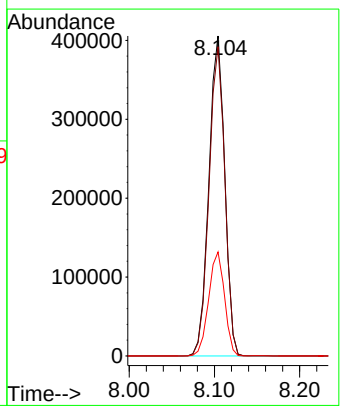


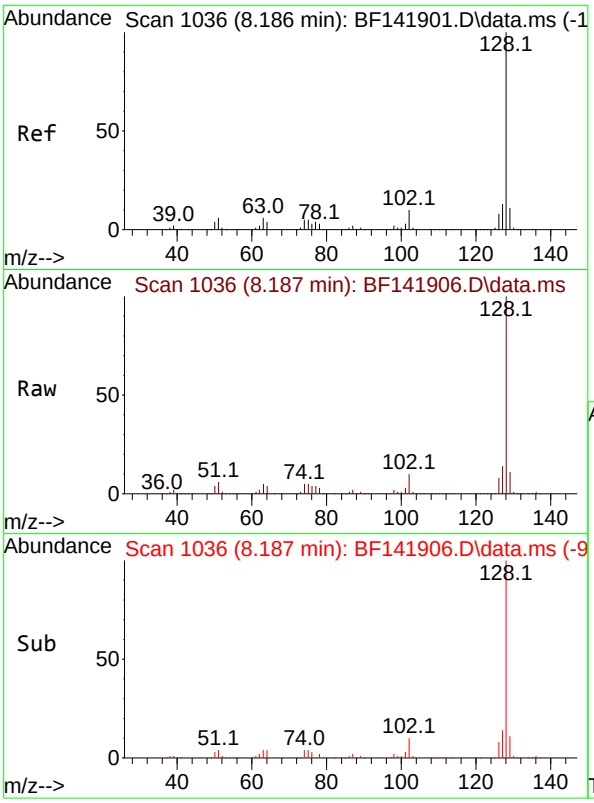


#30
1,2,4-Trichlorobenzene
Concen: 38.336 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:180 Resp: 526250

Ion	Ratio	Lower	Upper
180	100		
182	96.7	77.5	116.3
145	32.5	25.8	38.6



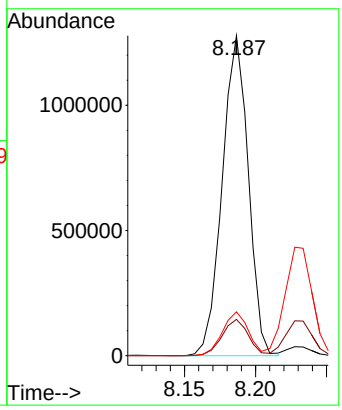


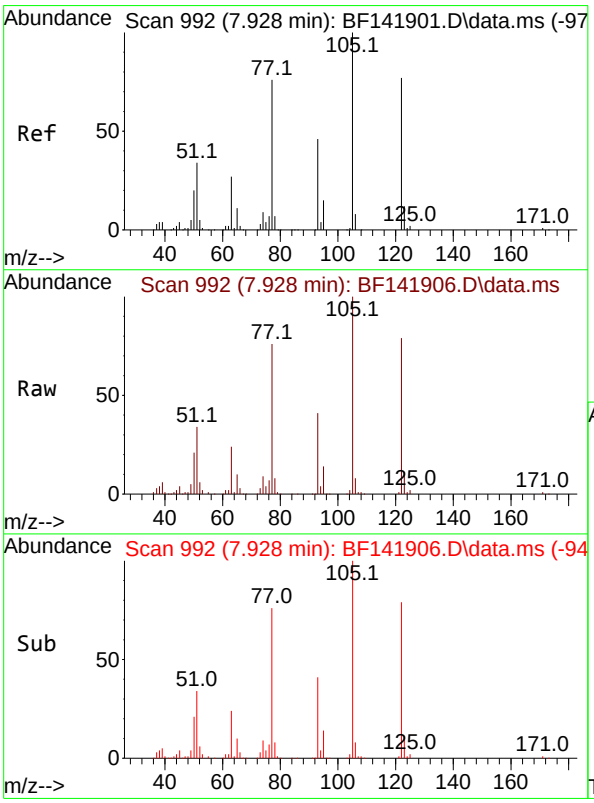
#31
Naphthalene
Concen: 37.827 ng
RT: 8.187 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:128 Resp: 1633401

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	13.7	10.8	16.2

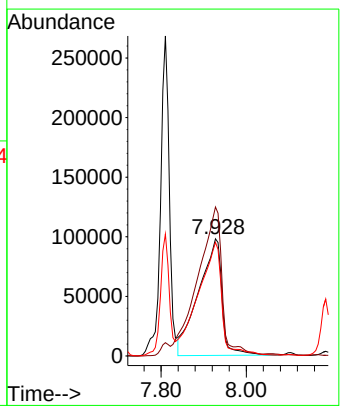


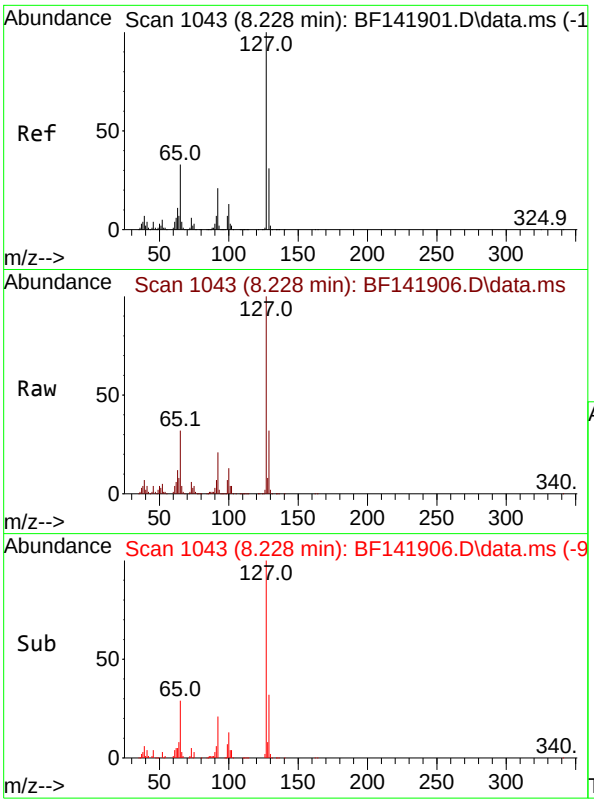


#32
Benzoic acid
Concen: 42.303 ng
RT: 7.928 min Scan# 992
Delta R.T. -0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:122 Resp: 373179

Ion	Ratio	Lower	Upper
122	100		
105	127.1	107.9	147.9
77	97.0	79.0	119.0



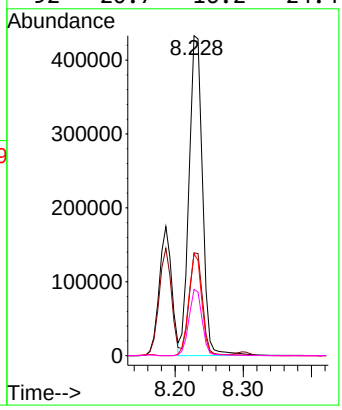


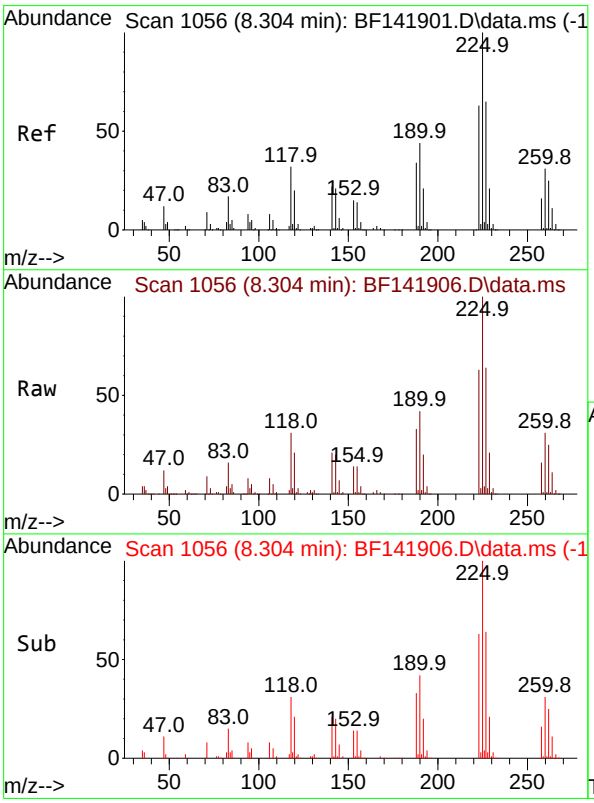
#33
4-Chloroaniline
Concen: 38.847 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:127 Resp: 592172

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.2	39.4
65	31.9	25.4	38.2
92	20.7	16.2	24.4

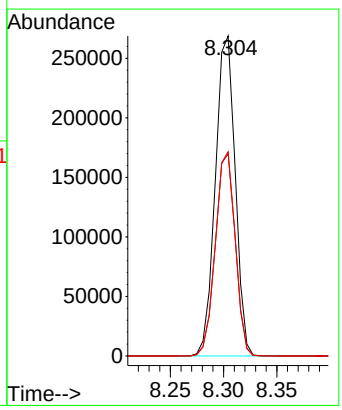


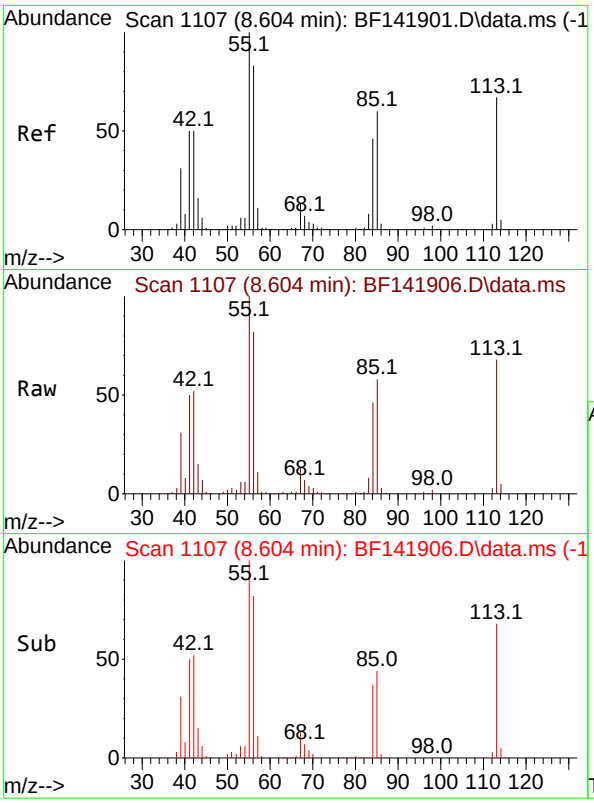


#34
Hexachlorobutadiene
Concen: 38.849 ng
RT: 8.304 min Scan# 1056
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:225 Resp: 347789

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.6	75.8
227	63.8	52.2	78.2



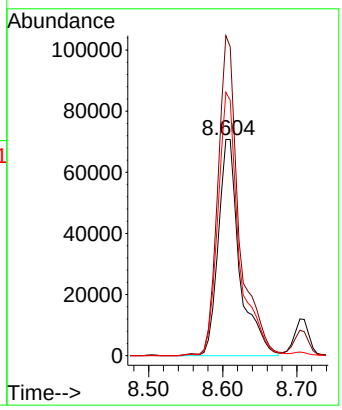


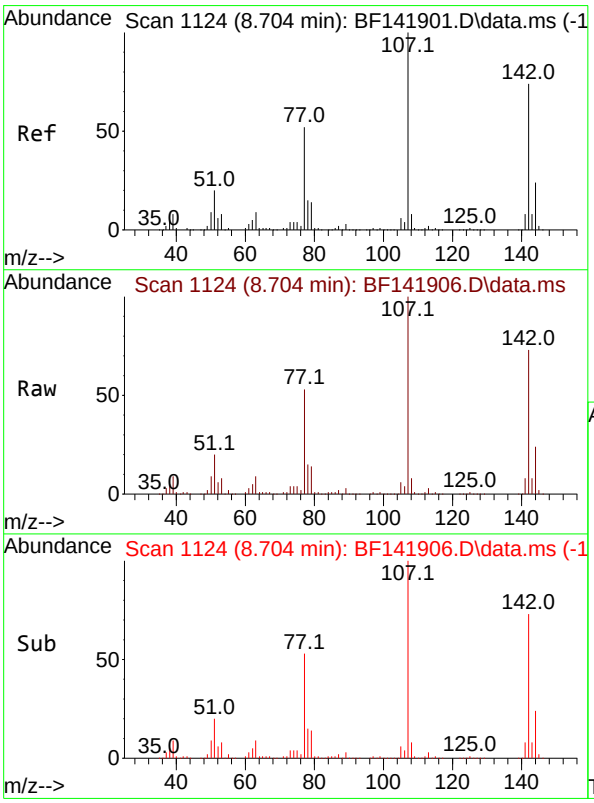
#35
Caprolactam
Concen: 37.276 ng
RT: 8.604 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:113 Resp: 141562

Ion	Ratio	Lower	Upper
113	100		
55	148.0	129.6	169.6
56	121.8	104.0	144.0

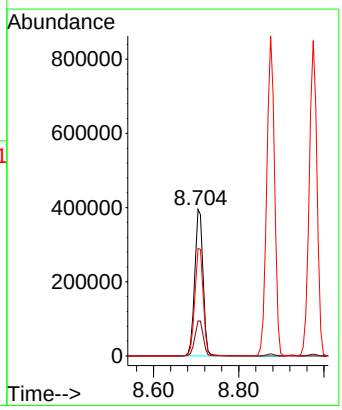


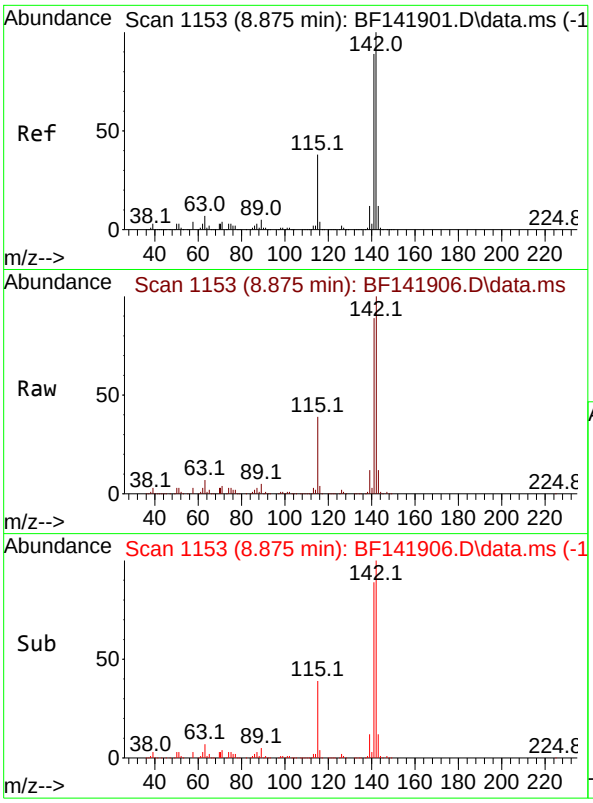


#36
4-Chloro-3-methylphenol
Concen: 38.550 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:107 Resp: 535661

Ion	Ratio	Lower	Upper
107	100		
144	23.9	19.0	28.6
142	73.3	59.2	88.8



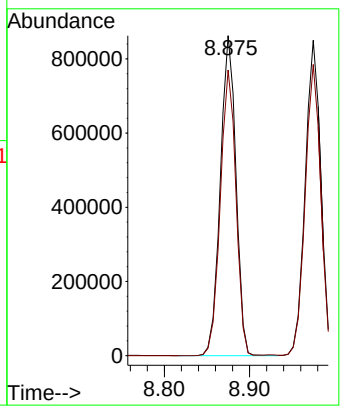


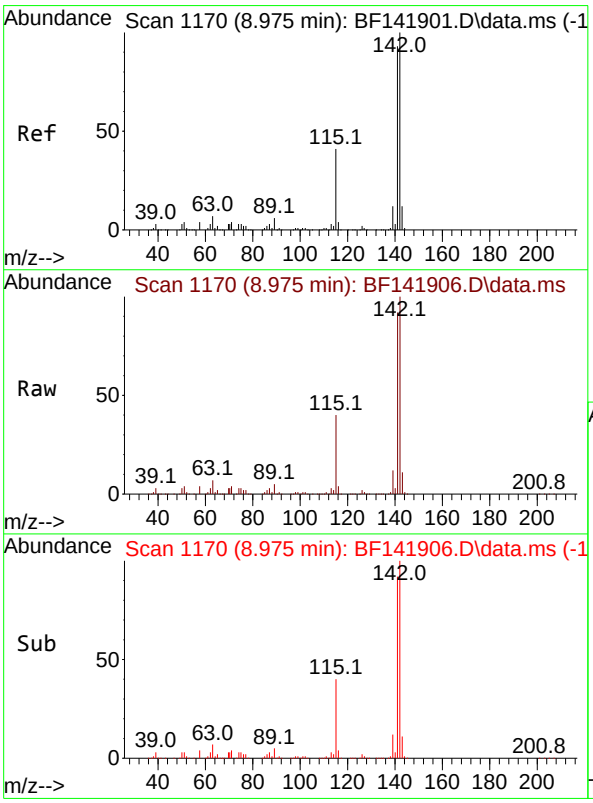
#37
2-Methylnaphthalene
Concen: 37.935 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:142 Resp: 1094895

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.2	106.8

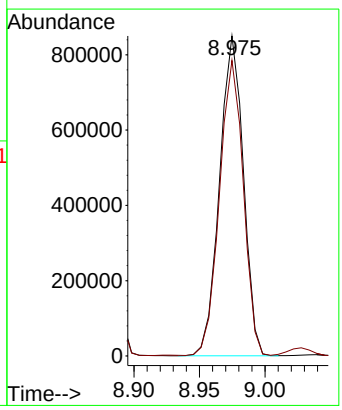


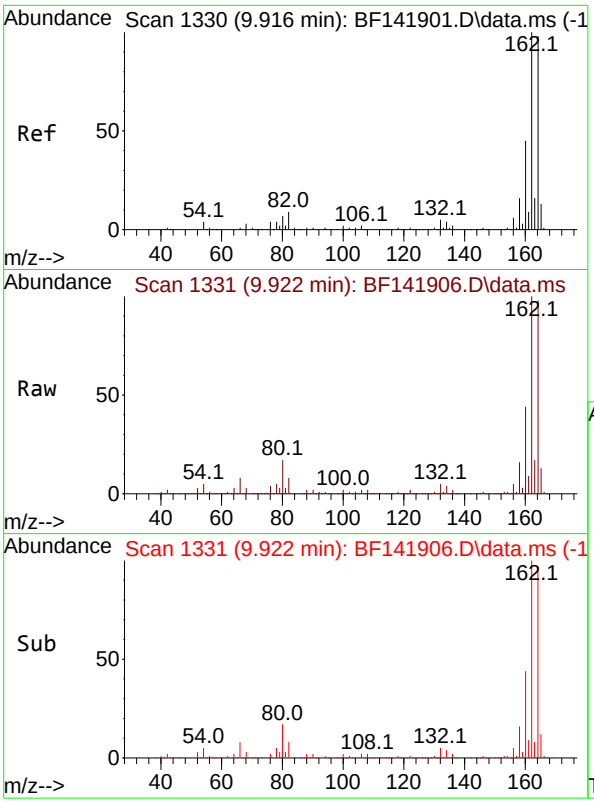


#38
1-Methylnaphthalene
Concen: 38.484 ng
RT: 8.975 min Scan# 1170
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:142 Resp: 1071850

Ion	Ratio	Lower	Upper
142	100		
141	92.3	74.2	111.4



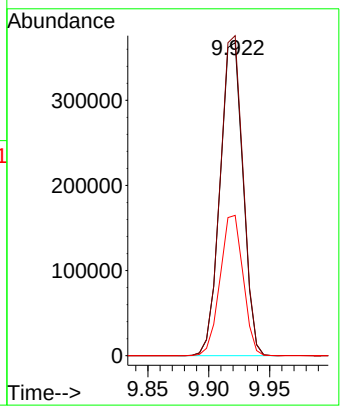


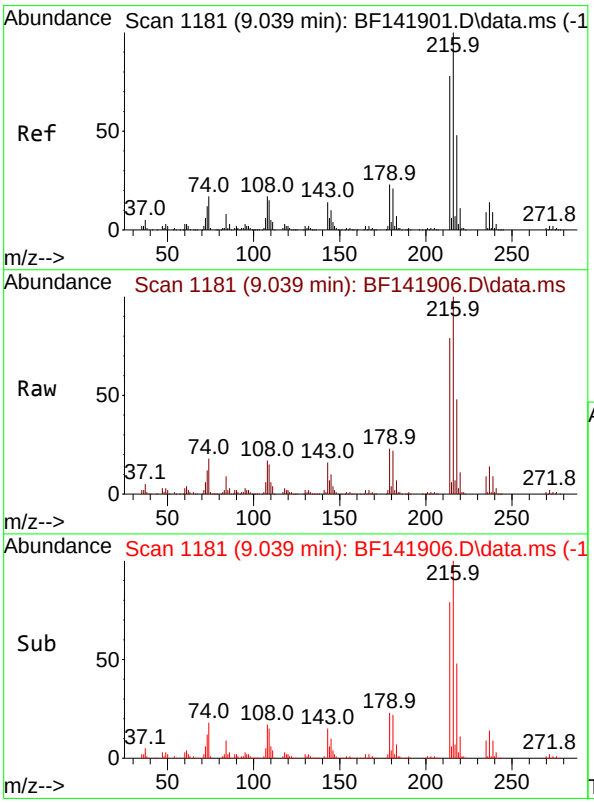
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:164 Resp: 483165

Ion	Ratio	Lower	Upper
164	100		
162	102.2	81.8	122.6
160	44.8	36.7	55.1

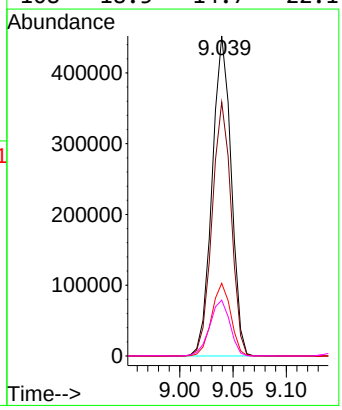


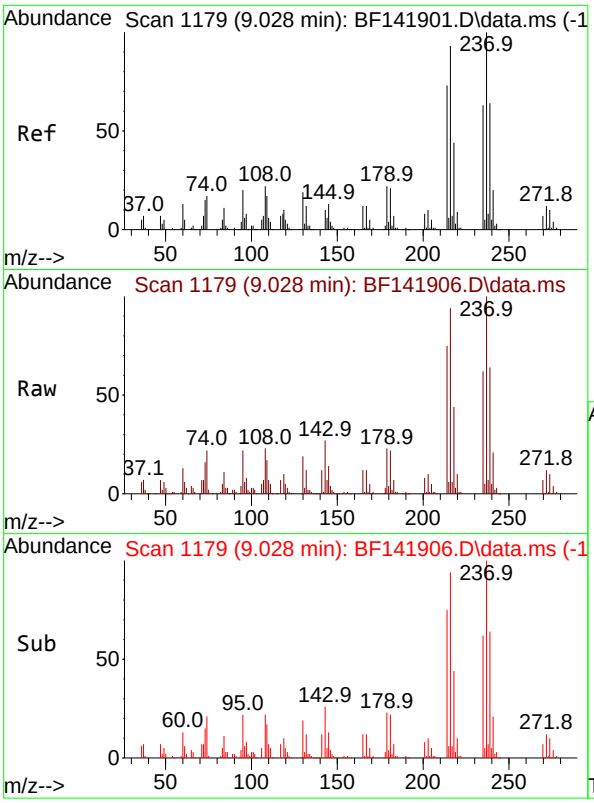


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.191 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:216 Resp: 561804

Ion	Ratio	Lower	Upper
216	100		
214	79.2	61.9	92.9
179	22.7	18.1	27.1
108	18.5	14.7	22.1



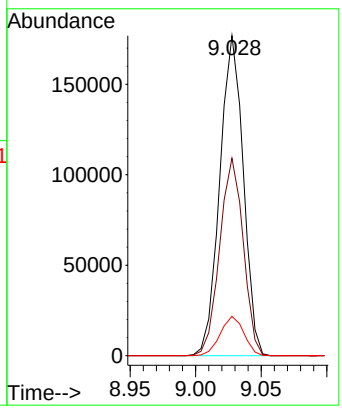


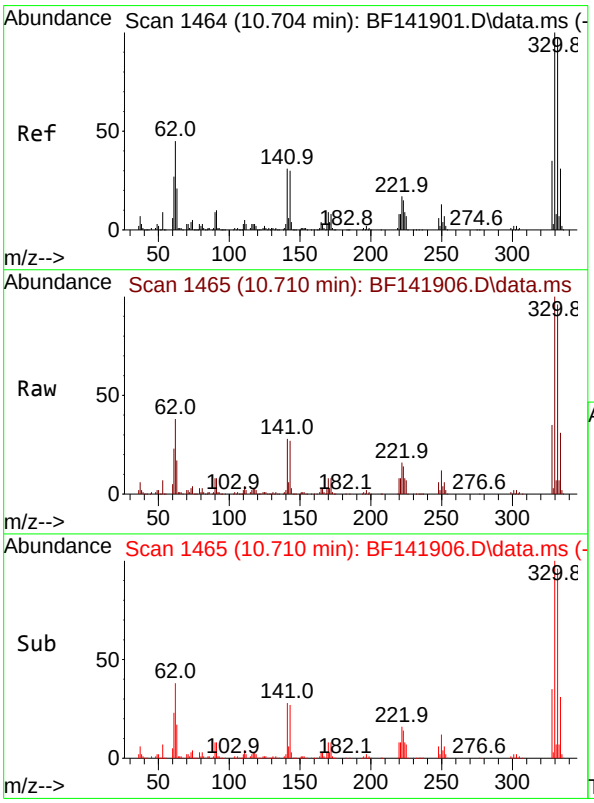
#41
Hexachlorocyclopentadiene
Concen: 38.281 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:237 Resp: 220386

Ion	Ratio	Lower	Upper
237	100		
235	61.7	43.1	83.1
272	12.3	0.0	32.0

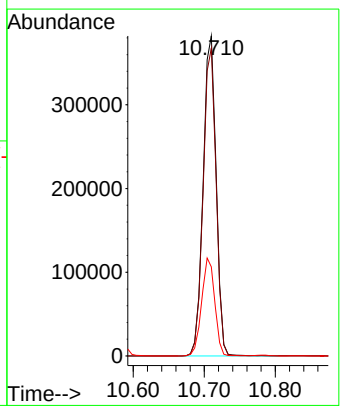


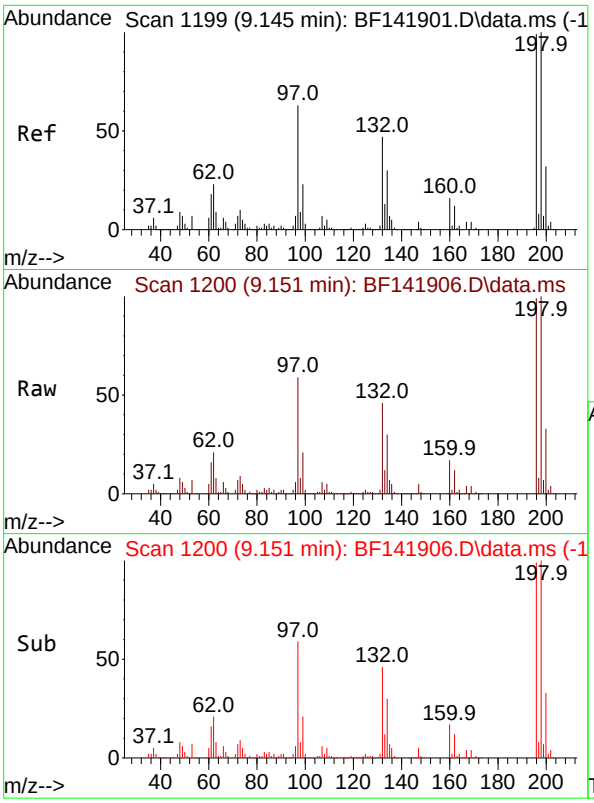


#42
2,4,6-Tribromophenol
Concen: 79.342 ng
RT: 10.710 min Scan# 1465
Delta R.T. 0.006 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:330 Resp: 486334

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.6	116.4
141	30.9	24.7	37.1



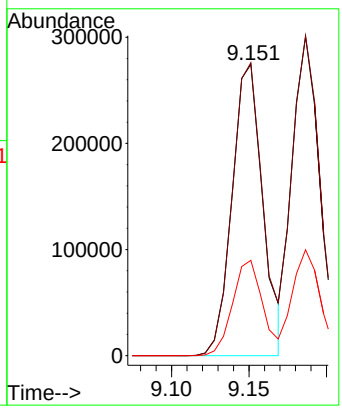


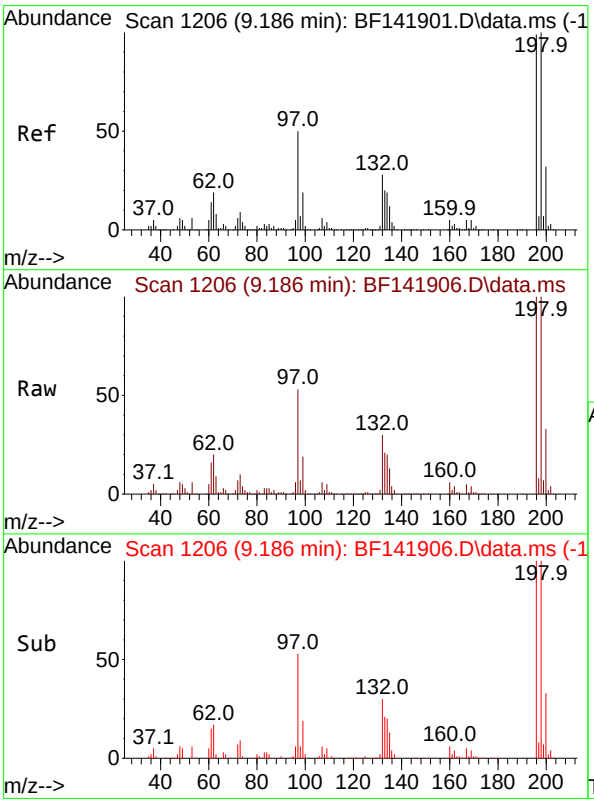
#43
2,4,6-Trichlorophenol
Concen: 39.292 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:196 Resp: 377743

Ion	Ratio	Lower	Upper
196	100		
198	100.6	80.6	121.0
200	32.8	25.8	38.6

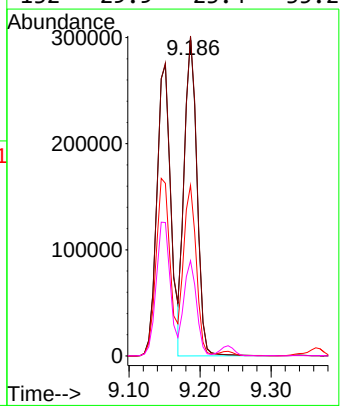


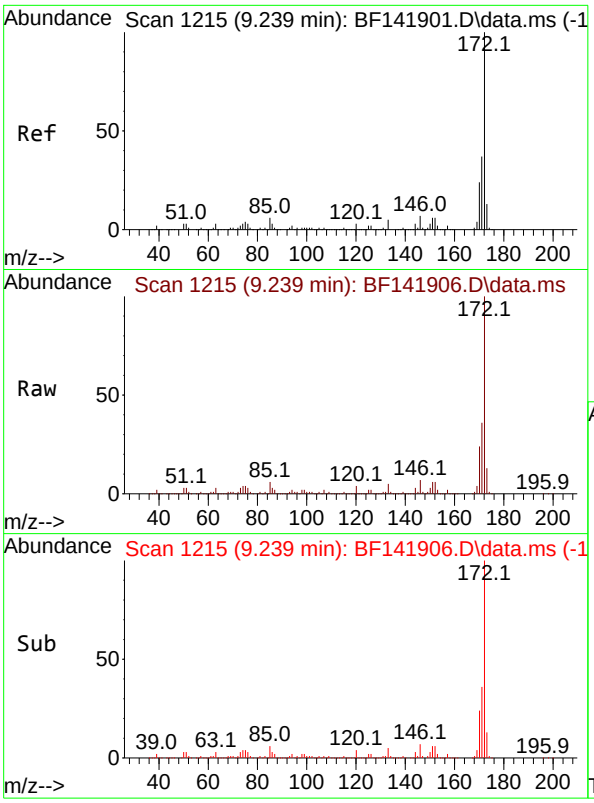


#44
2,4,5-Trichlorophenol
Concen: 38.263 ng
RT: 9.186 min Scan# 1206
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:196 Resp: 372564

Ion	Ratio	Lower	Upper
196	100		
198	100.3	80.7	121.1
97	53.5	42.1	63.1
132	29.9	23.4	35.2



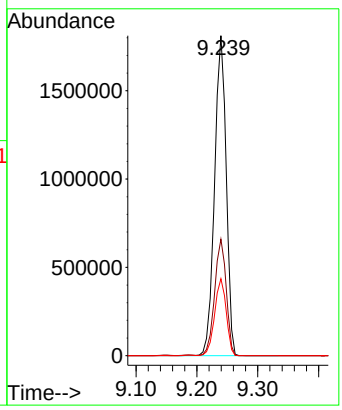


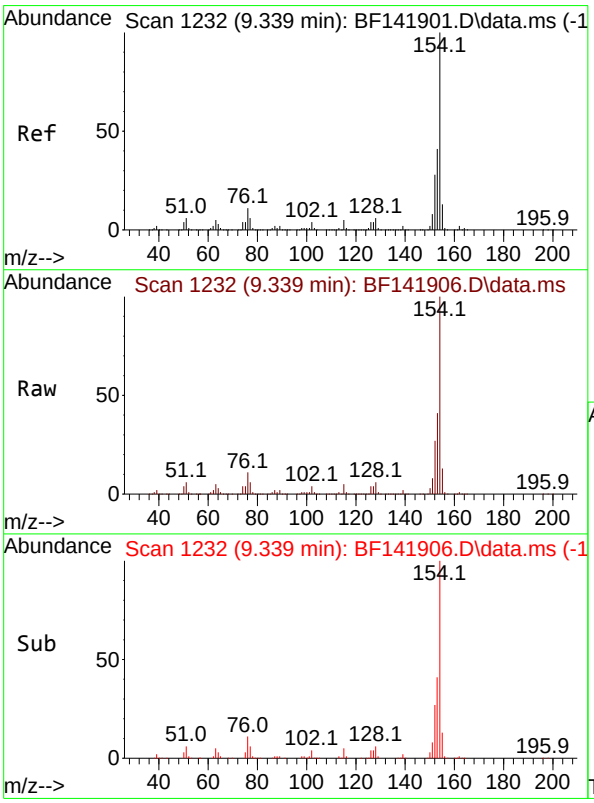
#45
2-Fluorobiphenyl
Concen: 75.528 ng
RT: 9.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:172 Resp: 2399526

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.3	43.9
170	24.1	19.4	29.0

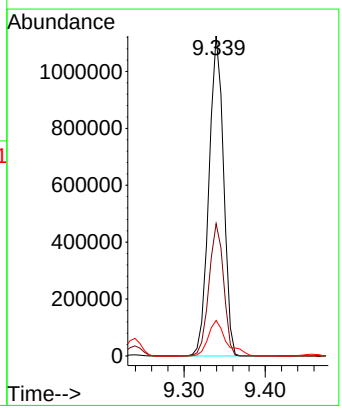


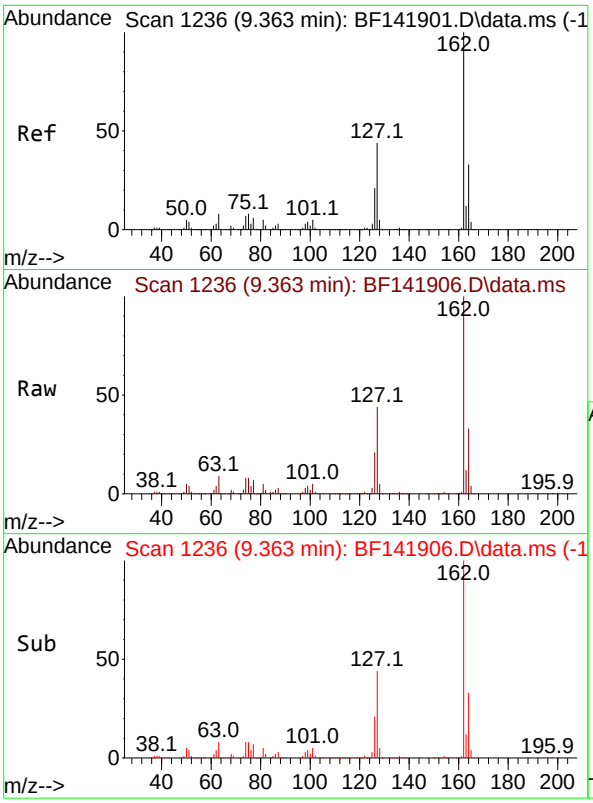


#46
1,1'-Biphenyl
Concen: 38.182 ng
RT: 9.339 min Scan# 1232
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:154 Resp: 1401736

Ion	Ratio	Lower	Upper
154	100		
153	41.3	21.1	61.1
76	11.1	0.0	31.3



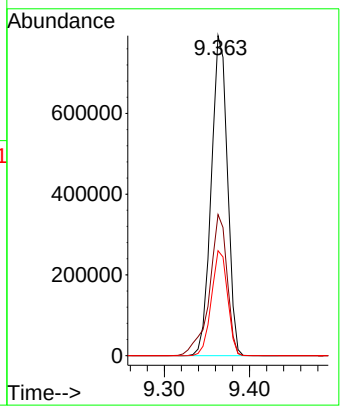


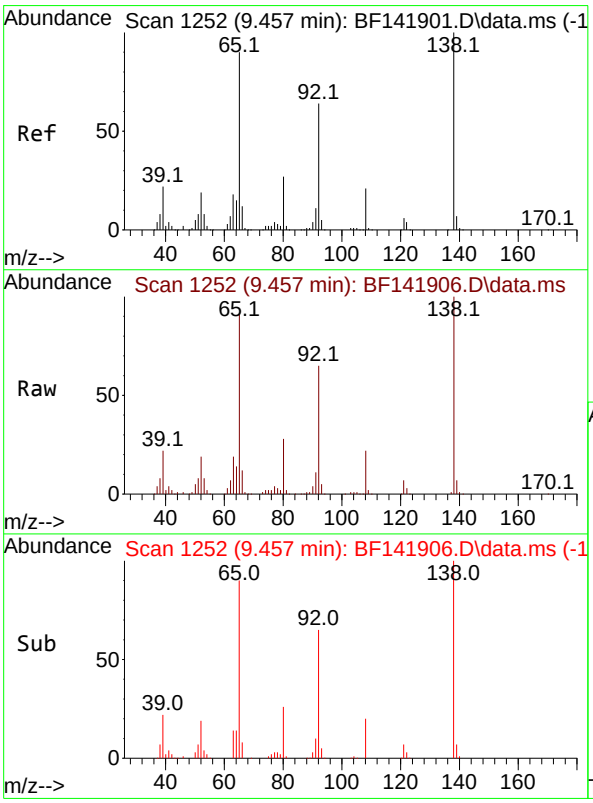
#47
2-Chloronaphthalene
Concen: 38.090 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:162 Resp: 1042241

Ion	Ratio	Lower	Upper
162	100		
127	44.1	35.5	53.3
164	32.8	26.6	40.0

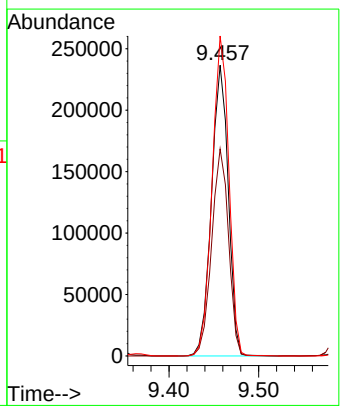


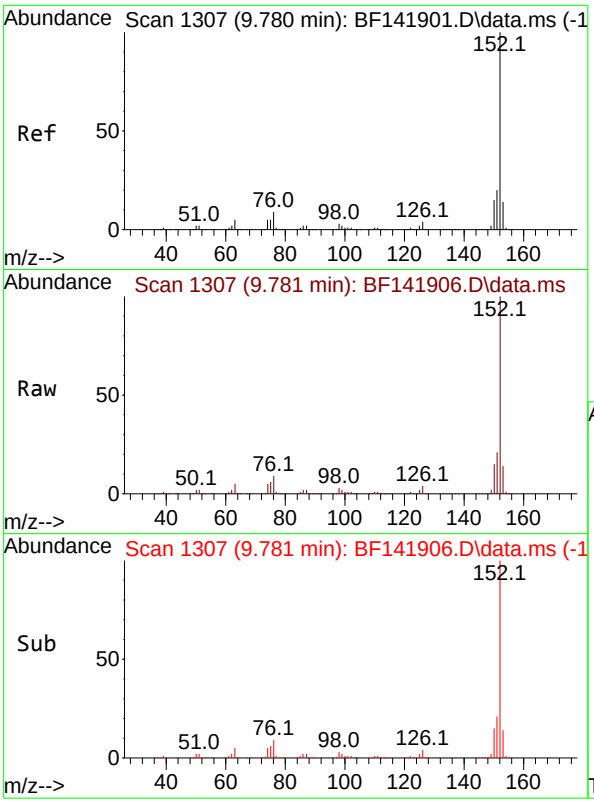


#48
2-Nitroaniline
Concen: 38.908 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion: 65 Resp: 308259

Ion	Ratio	Lower	Upper
65	100		
92	71.2	56.6	84.8
138	110.1	88.6	133.0



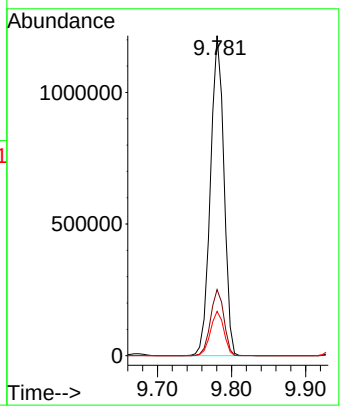


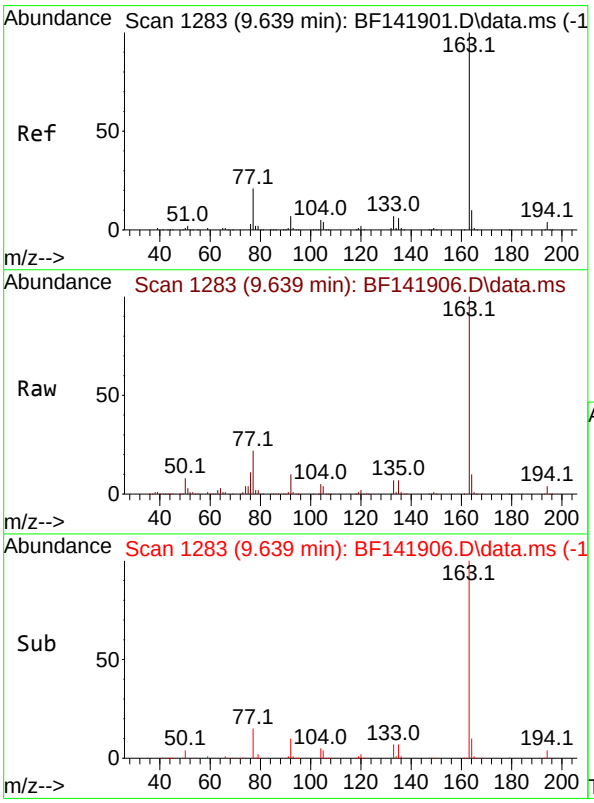
#49
Acenaphthylene
Concen: 37.725 ng
RT: 9.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:152 Resp: 1531852

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.3	24.5
153	13.9	11.1	16.7

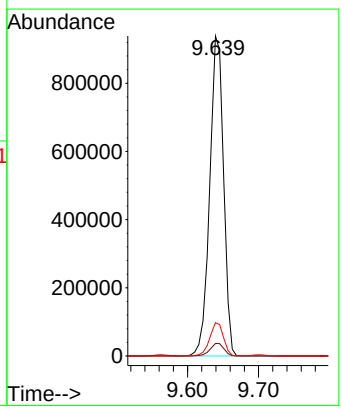


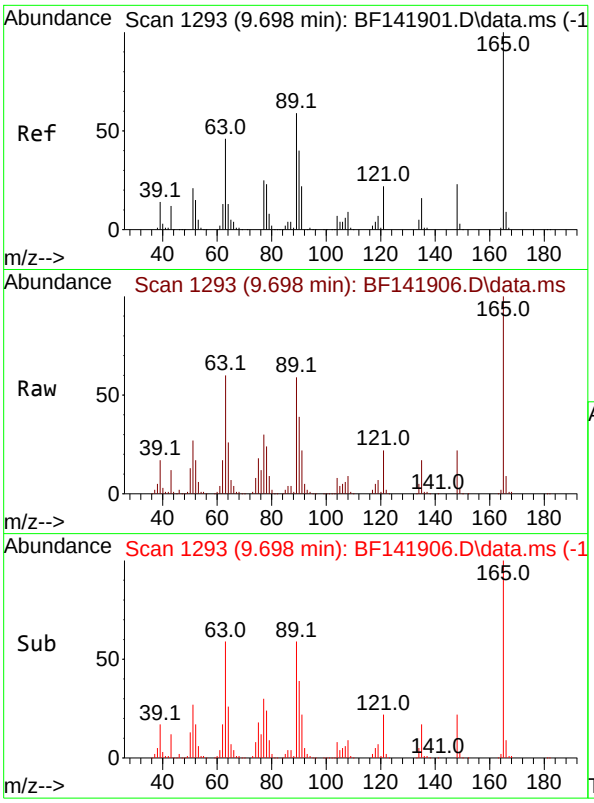


#50
Dimethylphthalate
Concen: 37.611 ng
RT: 9.639 min Scan# 1283
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:163 Resp: 1272572

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.4	8.2	12.4



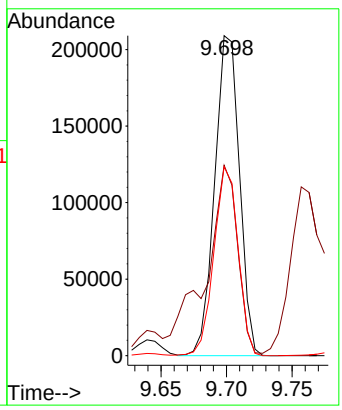


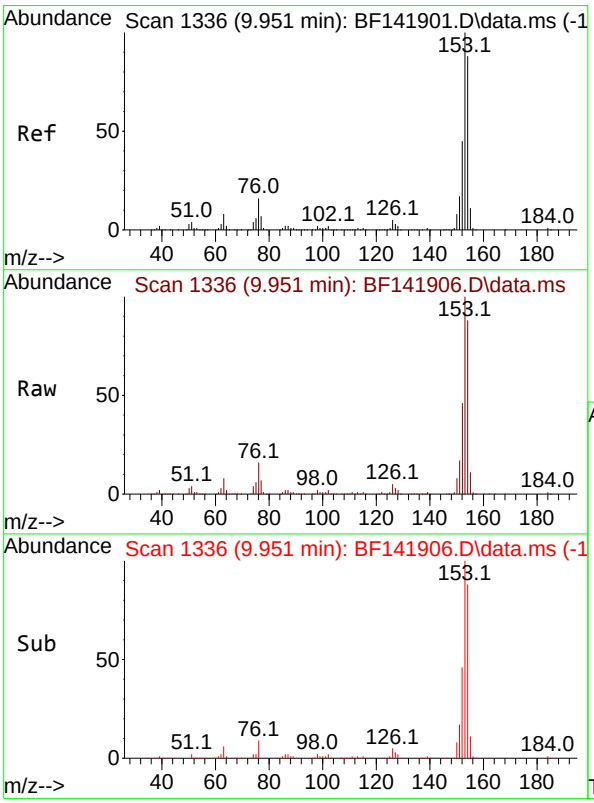
#51
2,6-Dinitrotoluene
Concen: 38.970 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:165 Resp: 274531

Ion	Ratio	Lower	Upper
165	100		
63	59.5	47.0	70.4
89	59.1	47.4	71.2

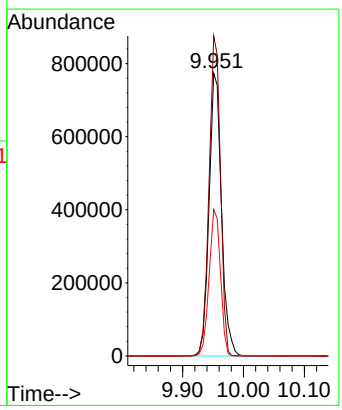


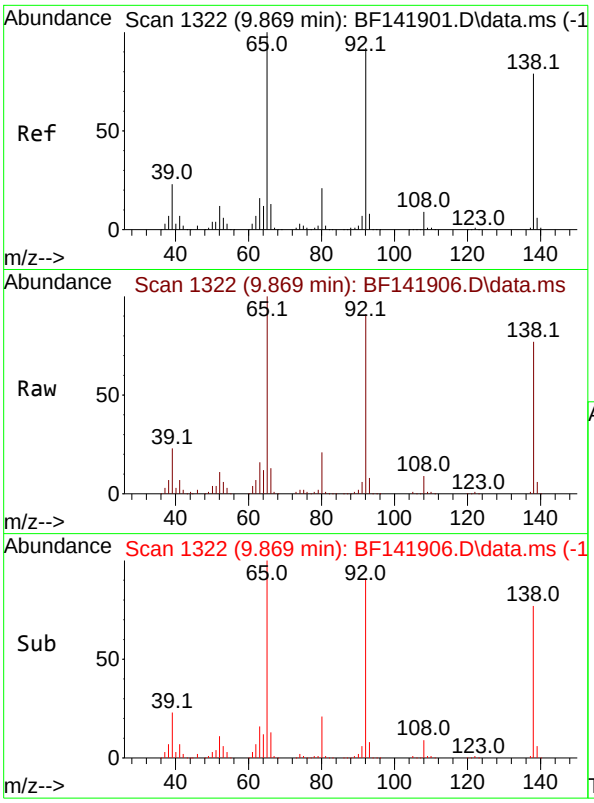


#52
Acenaphthene
Concen: 38.405 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:154 Resp: 1095922

Ion	Ratio	Lower	Upper
154	100		
153	113.2	90.7	136.1
152	51.8	41.1	61.7



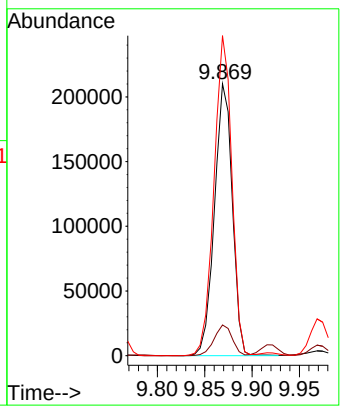


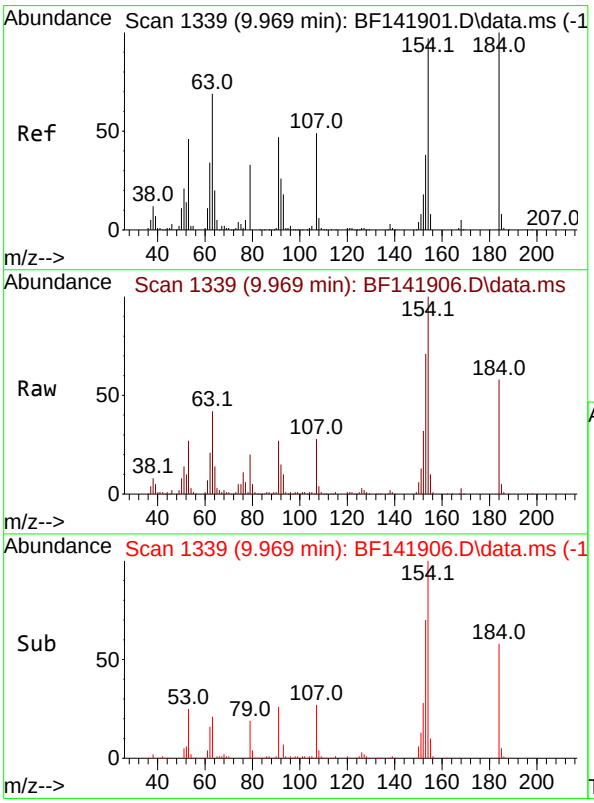
#53
3-Nitroaniline
Concen: 38.561 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:138 Resp: 275555

Ion	Ratio	Lower	Upper
138	100		
108	11.3	9.3	13.9
92	117.7	93.5	140.3

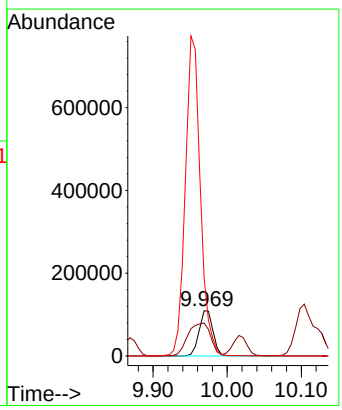


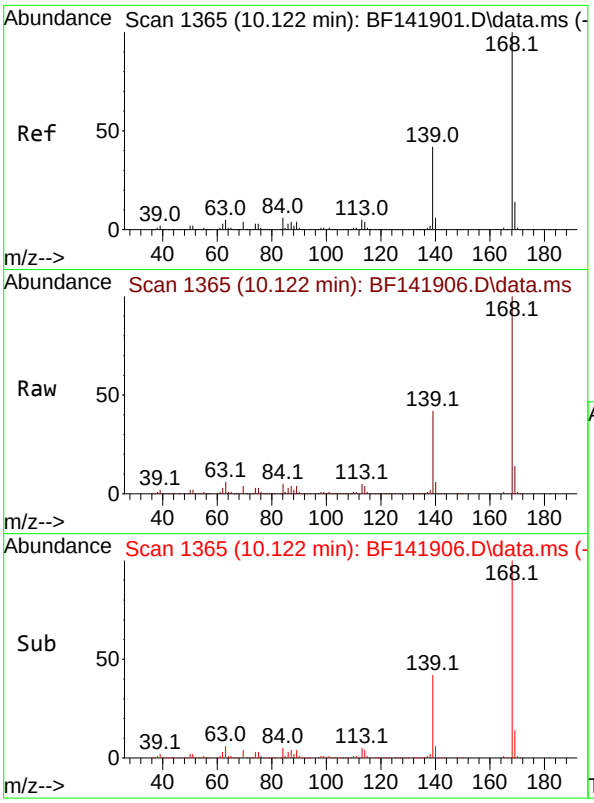


#54
2,4-Dinitrophenol
Concen: 39.326 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:184 Resp: 142831

Ion	Ratio	Lower	Upper
184	100		
63	73.1	60.2	90.4
154	173.5	132.9	199.3



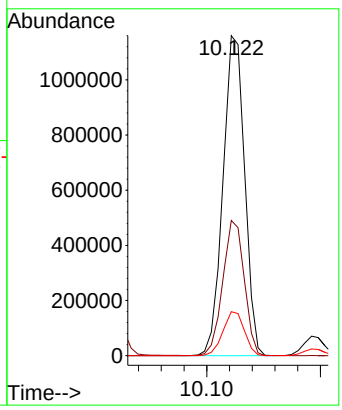


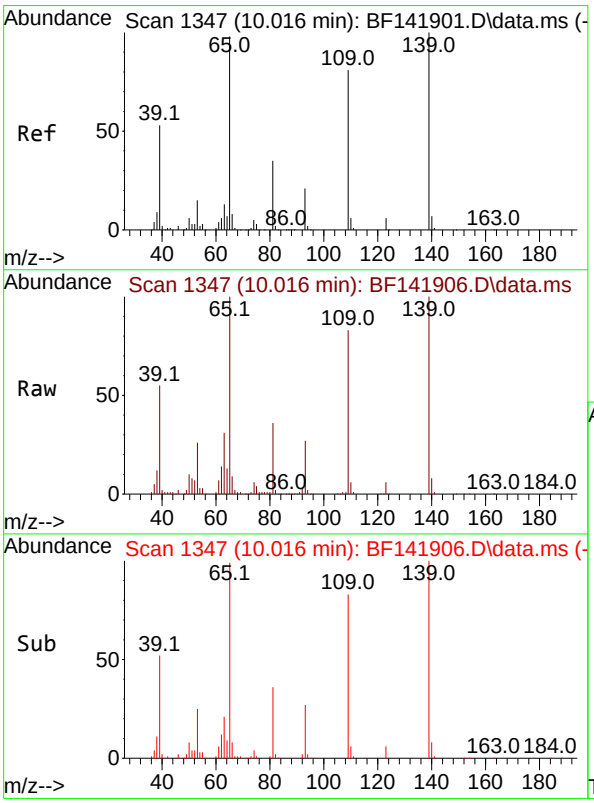
#55
Dibenzofuran
Concen: 37.778 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:168 Resp: 1540381

Ion	Ratio	Lower	Upper
168	100		
139	42.2	33.9	50.9
169	13.8	11.0	16.4

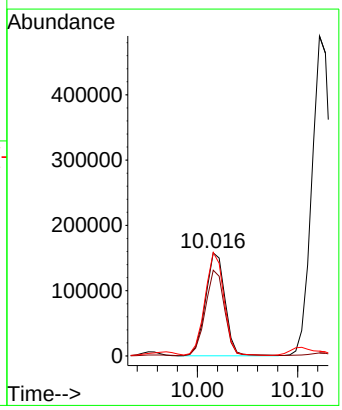


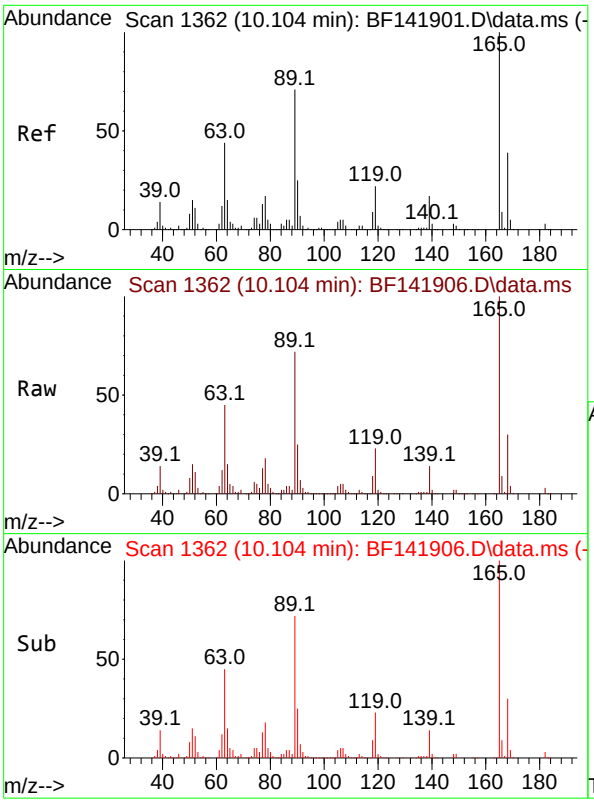


#56
4-Nitrophenol
Concen: 39.425 ng
RT: 10.016 min Scan# 1347
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:139 Resp: 212462

Ion	Ratio	Lower	Upper
139	100		
109	83.2	61.6	101.6
65	100.4	79.4	119.4



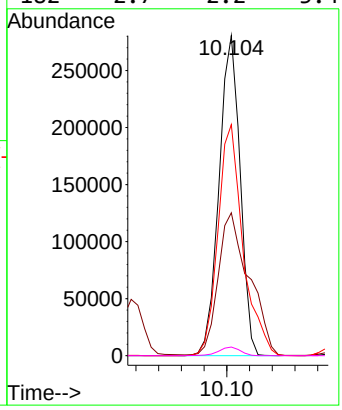


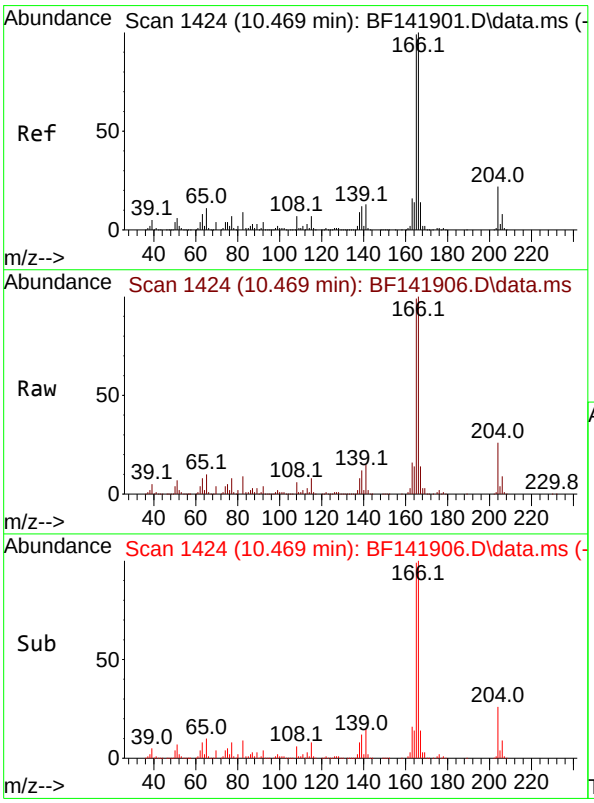
#57
2,4-Dinitrotoluene
Concen: 39.291 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:165 Resp: 361518

Ion	Ratio	Lower	Upper
165	100		
63	44.7	35.4	53.2
89	72.2	56.6	84.8
182	2.7	2.2	3.4

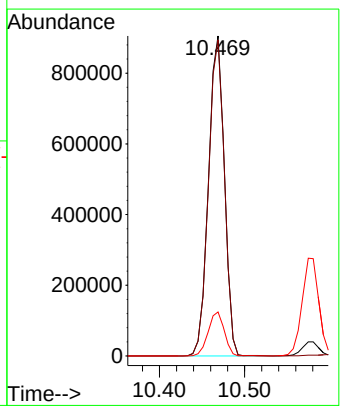


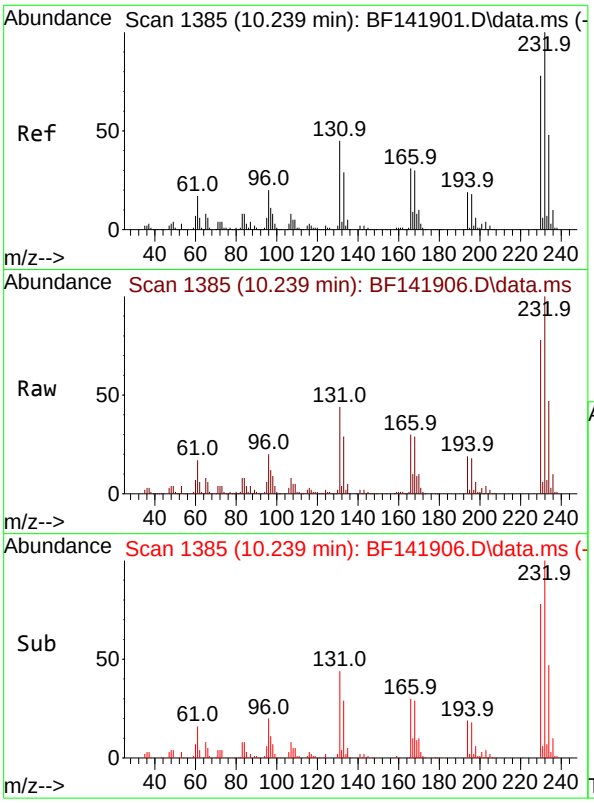


#58
Fluorene
Concen: 37.381 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:166 Resp: 1175392

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.0	118.4
167	13.8	11.0	16.4



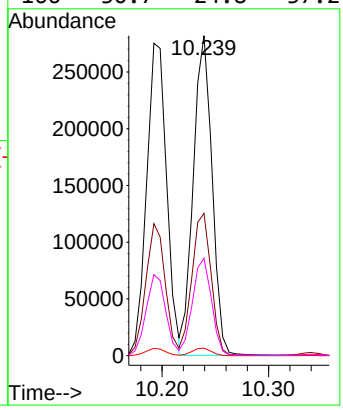


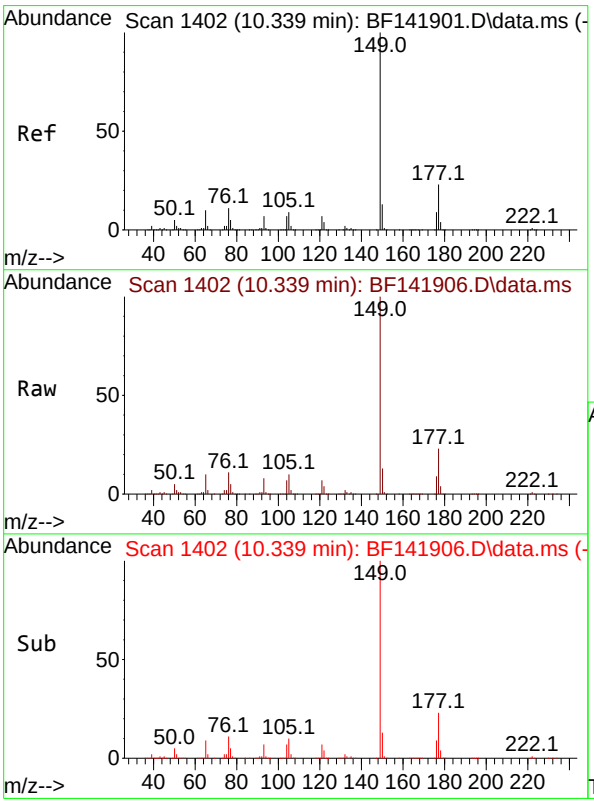
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.070 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:232 Resp: 346168

Ion	Ratio	Lower	Upper
232	100		
131	45.8	37.3	55.9
130	2.4	1.9	2.9
166	30.7	24.8	37.2

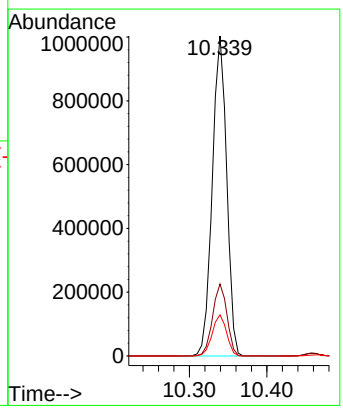


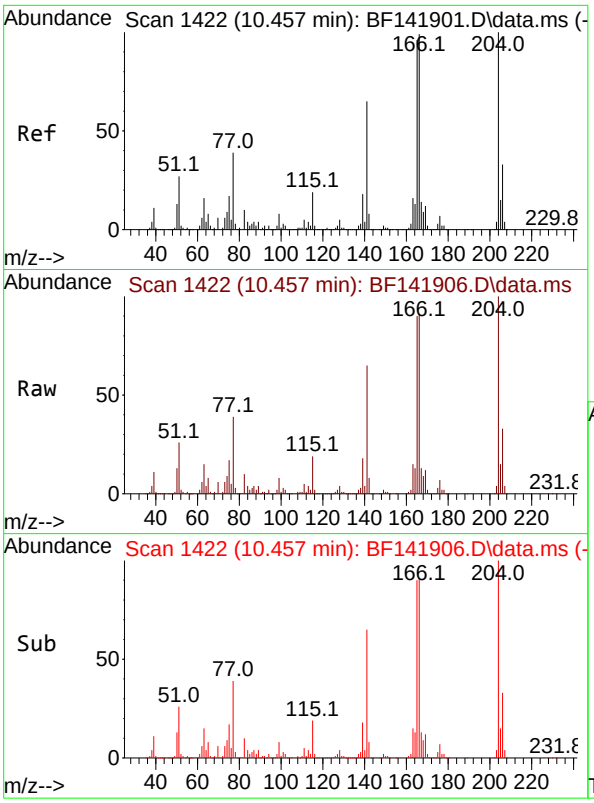


#60
Diethylphthalate
Concen: 38.337 ng
RT: 10.339 min Scan# 1402
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:149 Resp: 1293401

Ion	Ratio	Lower	Upper
149	100		
177	22.5	18.0	27.0
150	12.8	10.2	15.4



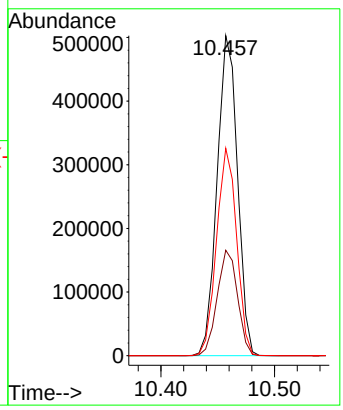


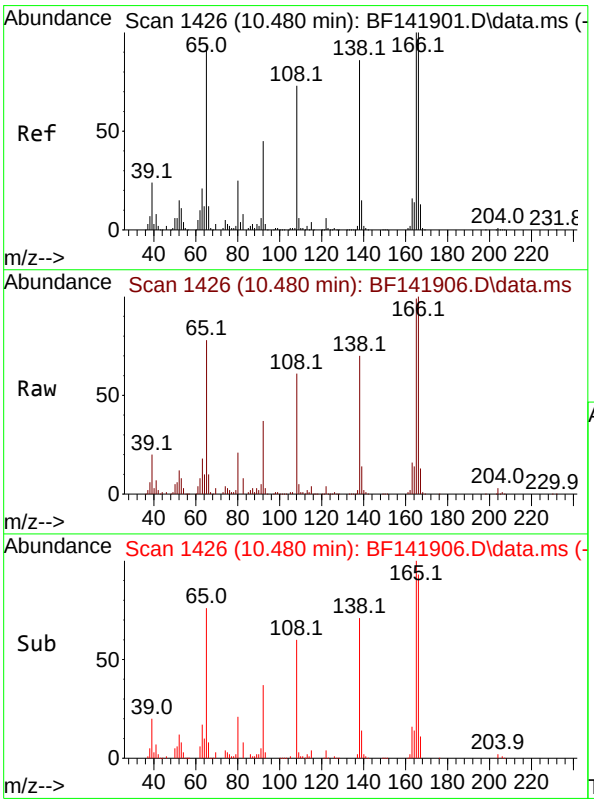
#61
4-Chlorophenyl-phenylether
Concen: 38.272 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:204 Resp: 627404

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.8	40.2
141	64.8	52.4	78.6

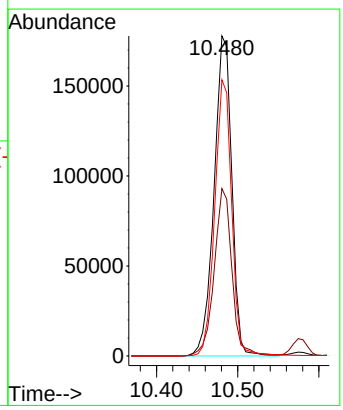


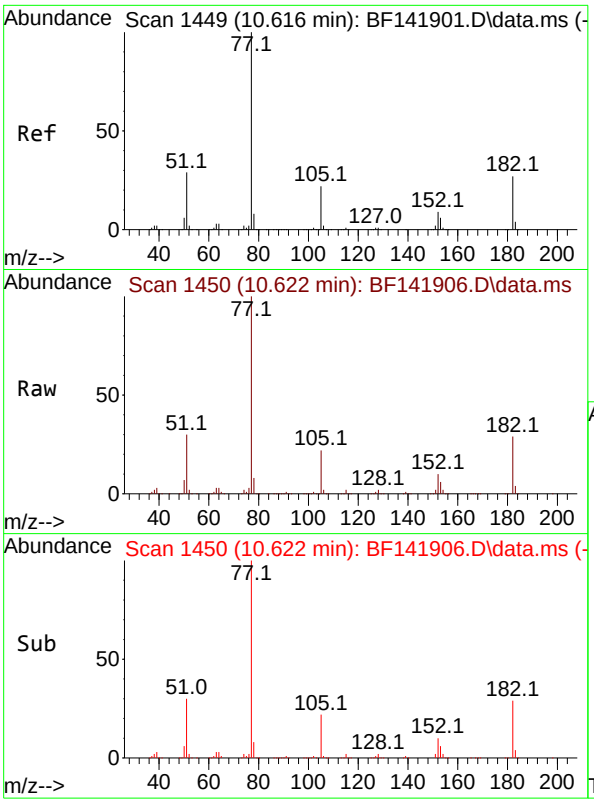


#62
4-Nitroaniline
Concen: 38.953 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:138 Resp: 270993

Ion	Ratio	Lower	Upper
138	100		
92	52.3	32.6	72.6
108	86.3	65.0	105.0



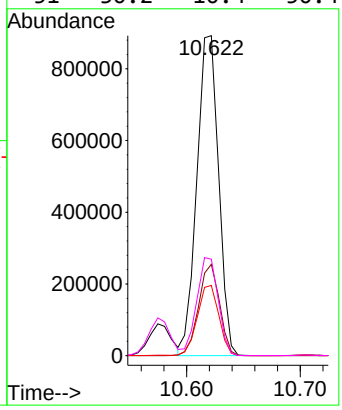


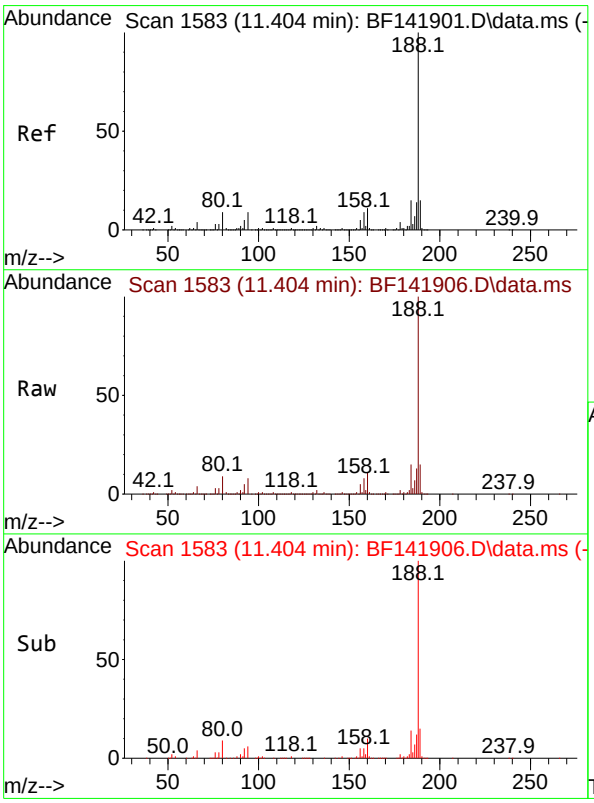
#63
Azobenzene
Concen: 37.911 ng
RT: 10.622 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion: 77 Resp: 1189121

Ion	Ratio	Lower	Upper
77	100		
182	28.5	6.6	46.6
105	22.0	1.3	41.3
51	30.2	10.4	50.4

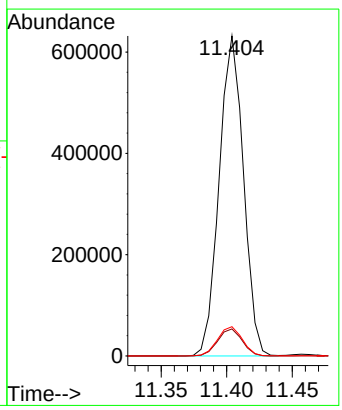


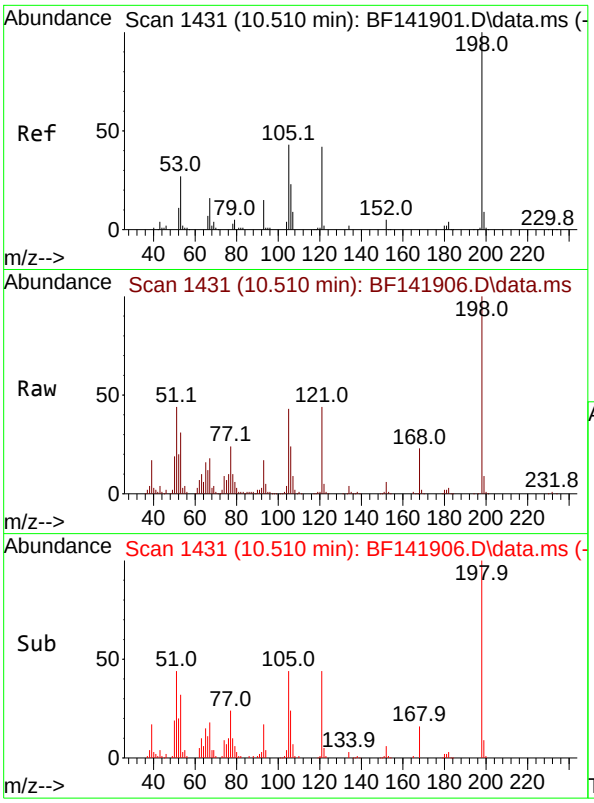


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:188 Resp: 813672

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.8	10.2
80	9.1	7.6	11.4



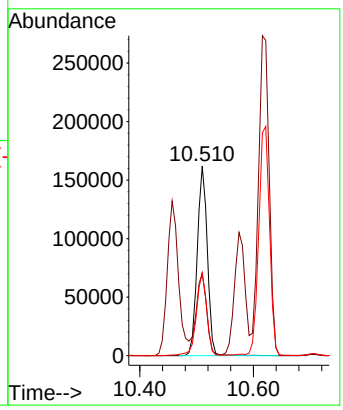


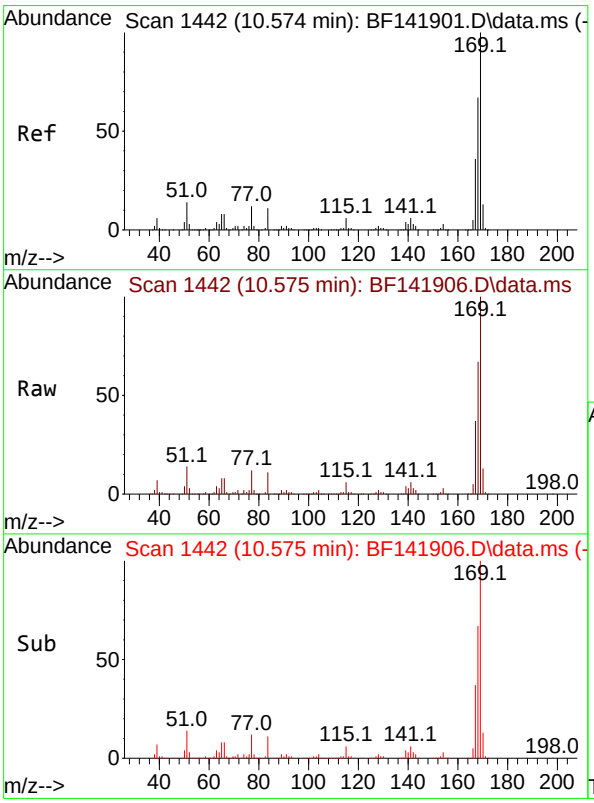
#65
4,6-Dinitro-2-methylphenol
Concen: 41.415 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:198 Resp: 200888

Ion	Ratio	Lower	Upper
198	100		
51	43.7	22.3	62.3
105	43.4	23.0	63.0

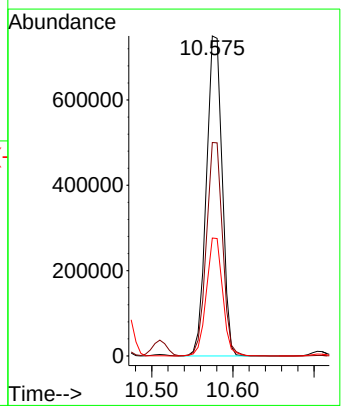


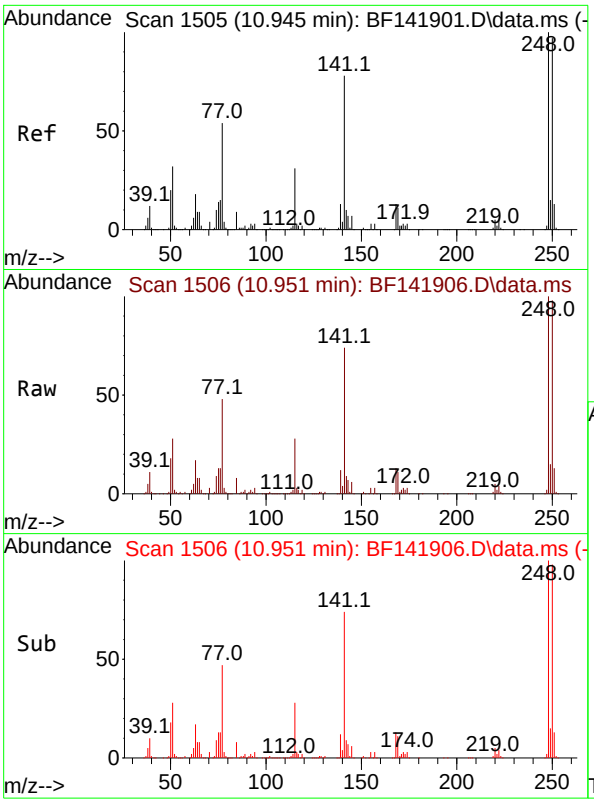


#66
n-Nitrosodiphenylamine
Concen: 38.283 ng
RT: 10.575 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:169 Resp: 1008029

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.7	80.5
167	36.9	29.2	43.8



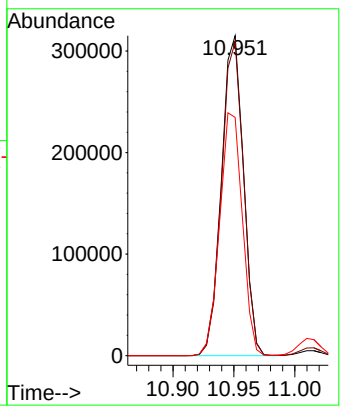


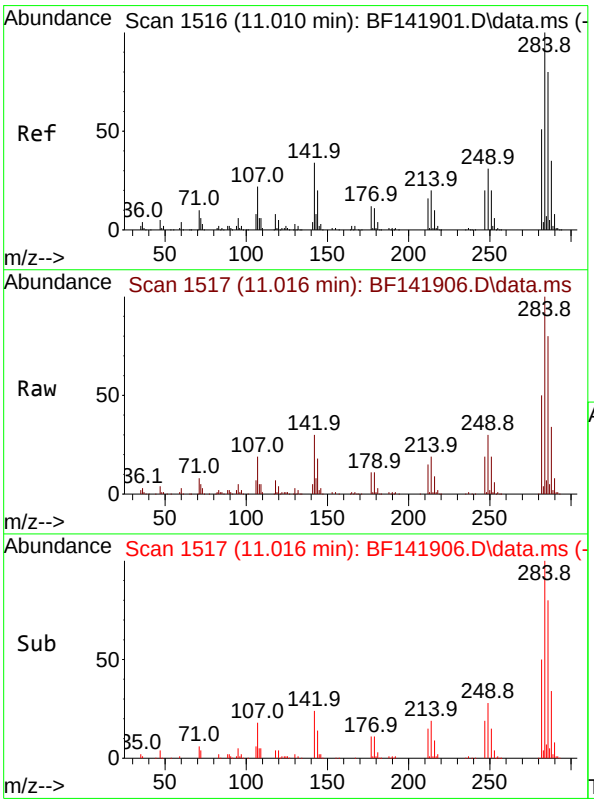
#67
4-Bromophenyl-phenylether
Concen: 39.015 ng
RT: 10.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:248 Resp: 398683

Ion	Ratio	Lower	Upper
248	100		
250	98.1	77.8	116.8
141	74.4	62.6	93.8

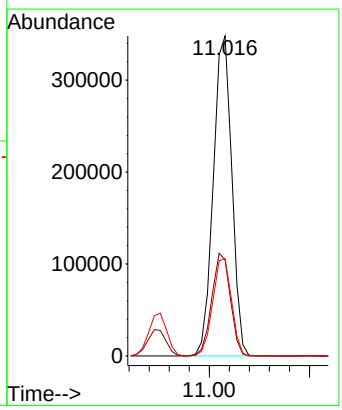


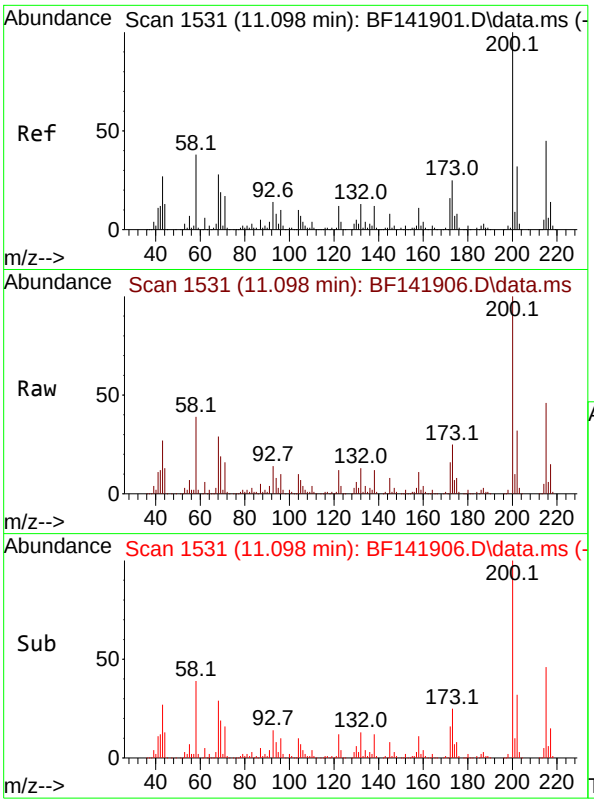


#68
Hexachlorobenzene
Concen: 39.789 ng
RT: 11.016 min Scan# 1517
Delta R.T. 0.006 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:284 Resp: 445938

Ion	Ratio	Lower	Upper
284	100		
142	30.0	27.0	40.6
249	30.5	25.2	37.8



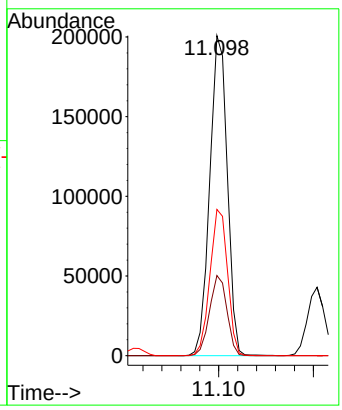


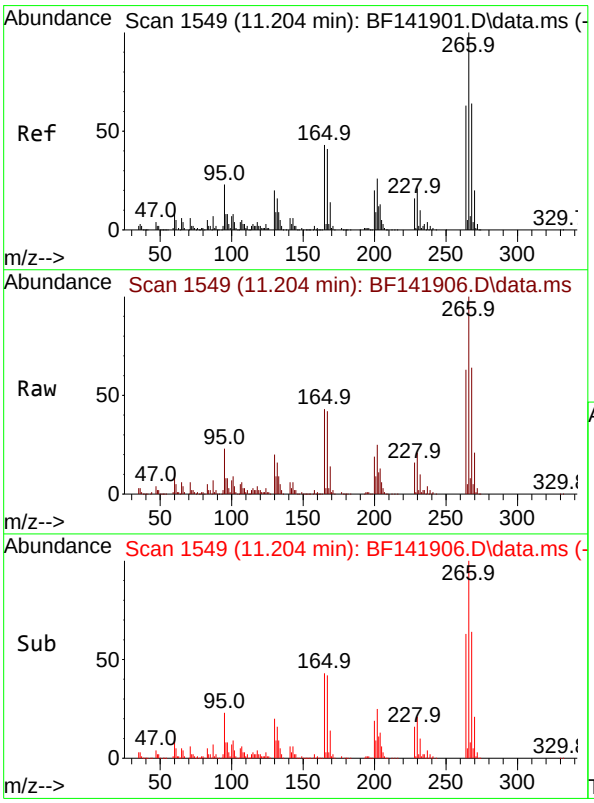
#69
Atrazine
Concen: 31.945 ng
RT: 11.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:200 Resp: 257856

Ion	Ratio	Lower	Upper
200	100		
173	25.1	4.7	44.7
215	45.7	25.4	65.4

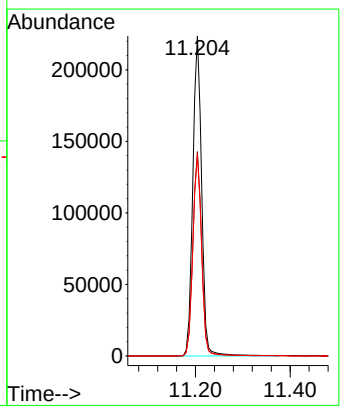


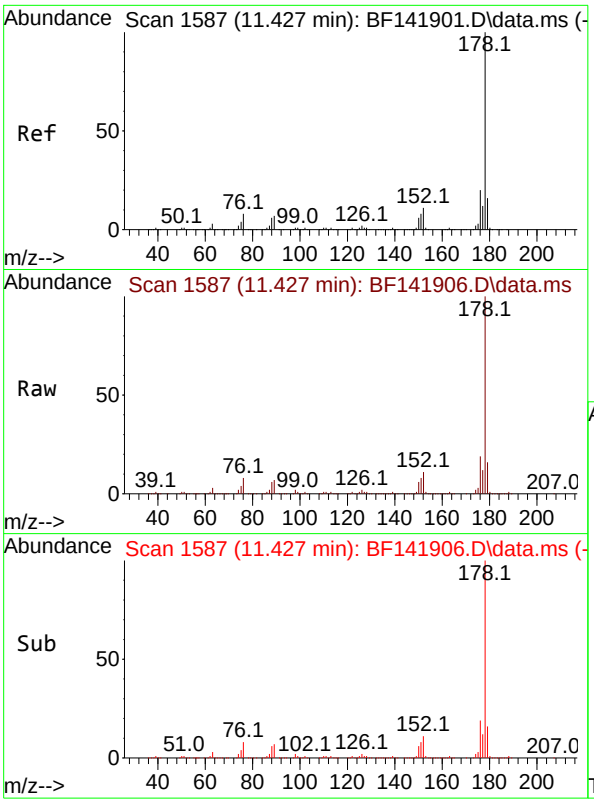


#70
Pentachlorophenol
Concen: 41.955 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:266 Resp: 289713

Ion	Ratio	Lower	Upper
266	100		
268	63.8	51.0	76.6
264	62.9	50.2	75.2



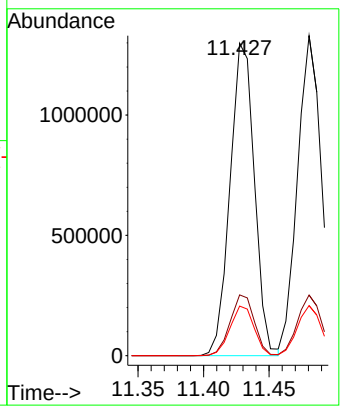


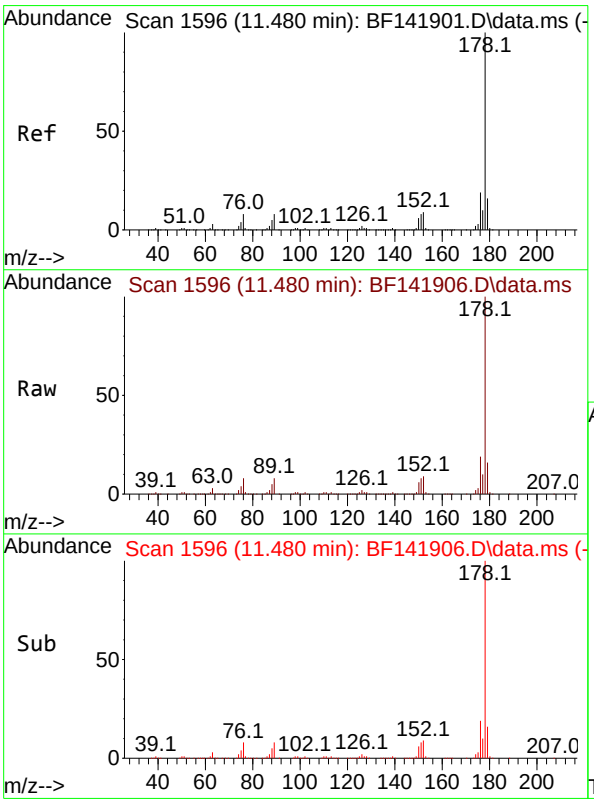
#71
Phenanthrene
Concen: 38.357 ng
RT: 11.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:178 Resp: 1685770

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.9	12.6	19.0

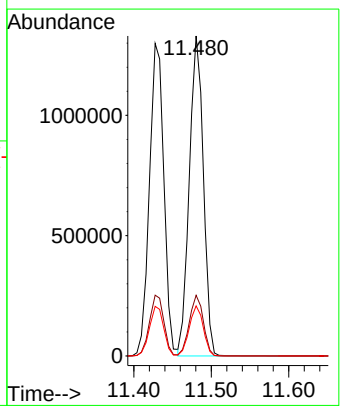


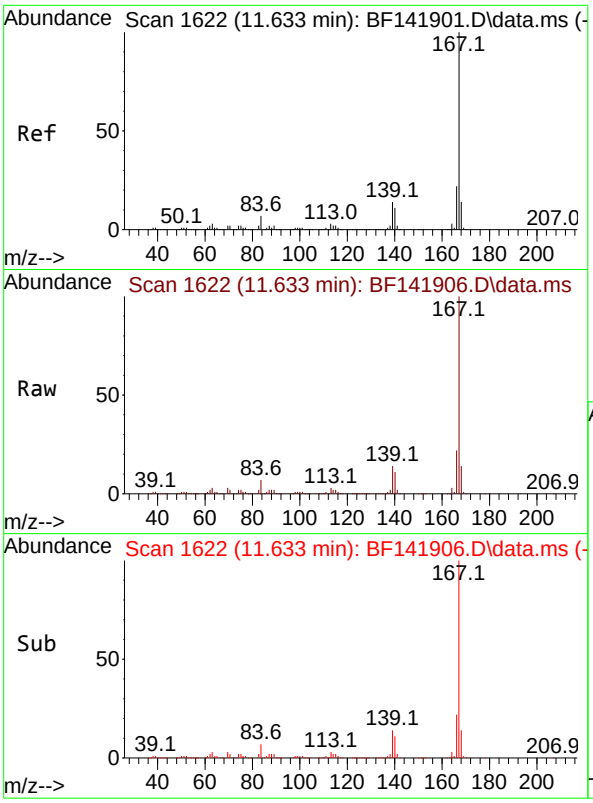


#72
Anthracene
Concen: 37.991 ng
RT: 11.480 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:178 Resp: 1675103

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.7	12.6	19.0



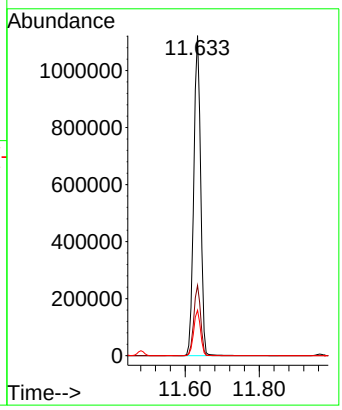


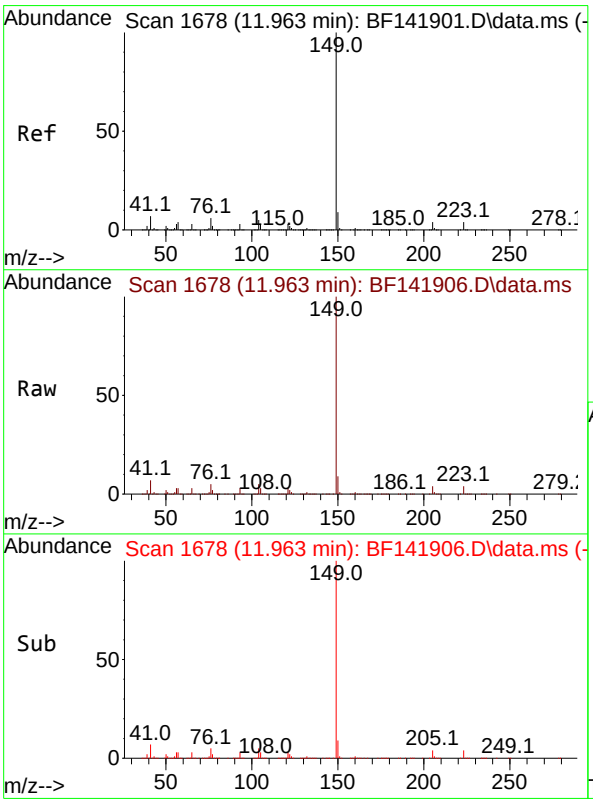
#73
Carbazole
Concen: 38.167 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:167 Resp: 1451333

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.4	26.2
139	14.2	11.0	16.6

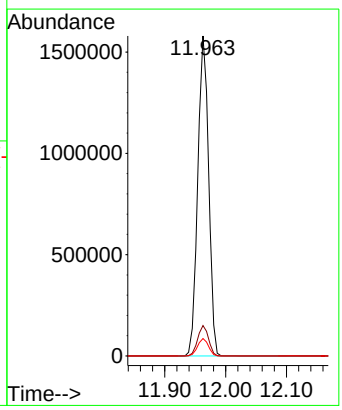


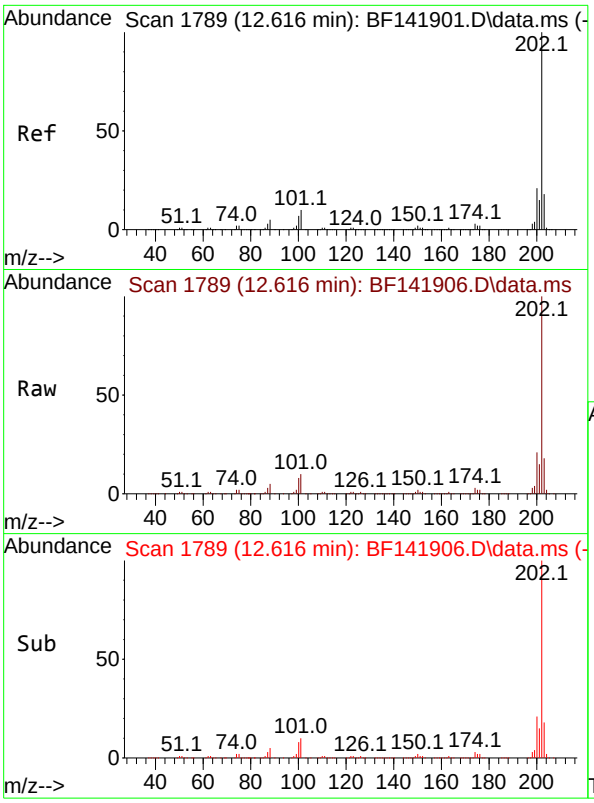


#74
Di-n-butylphthalate
Concen: 38.717 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:149 Resp: 1953516

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.6	11.4
104	5.5	4.4	6.6



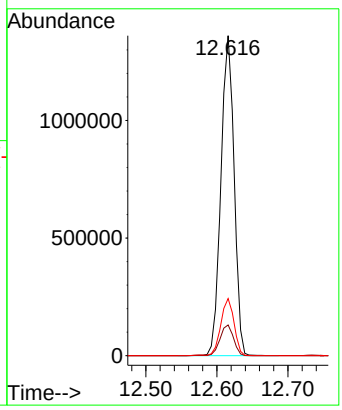


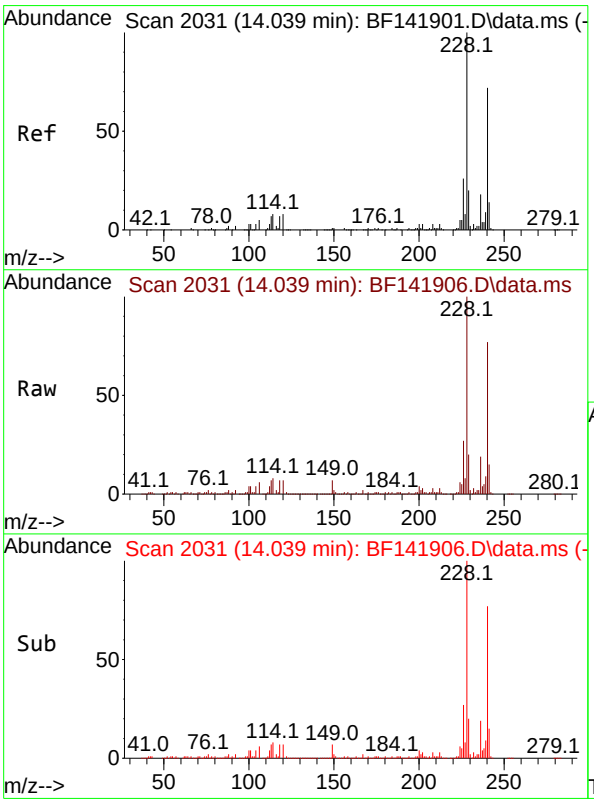
#75
Fluoranthene
Concen: 37.545 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:202 Resp: 1750317

Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	29.7
203	17.9	0.0	37.8

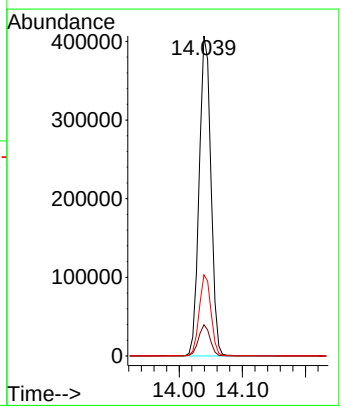


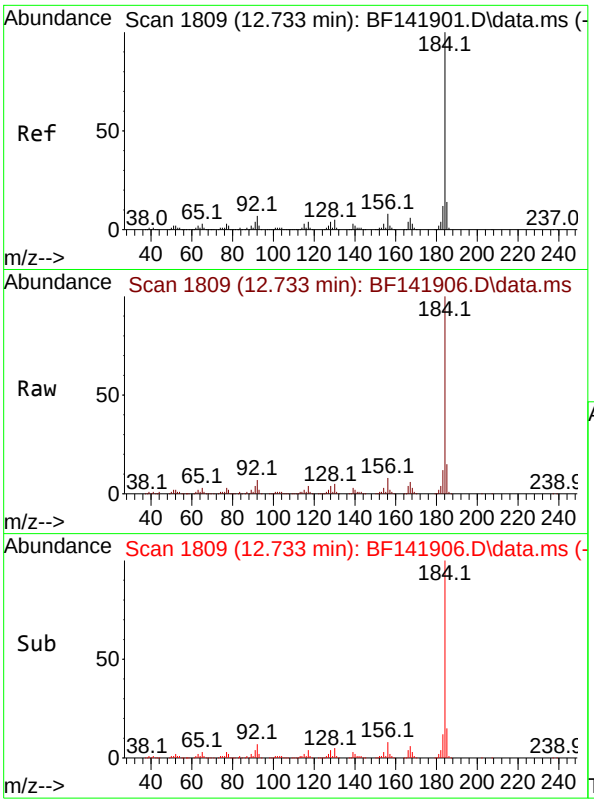


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:240 Resp: 523890

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.4	12.6
236	25.3	20.5	30.7



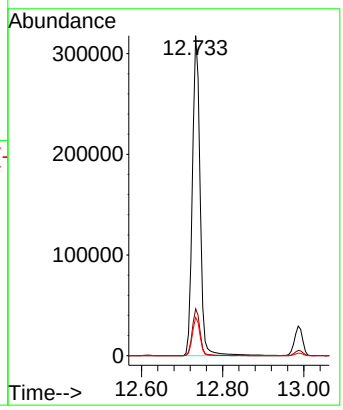


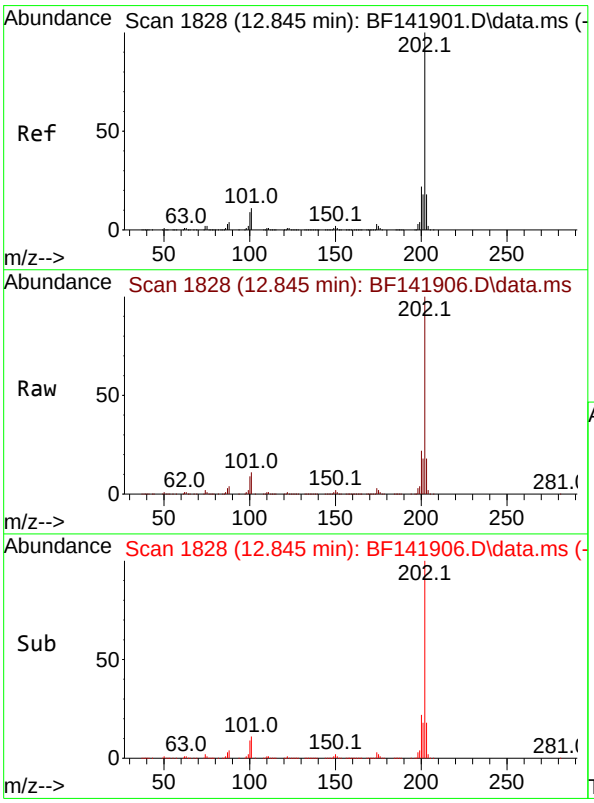
#77
Benzidine
Concen: 57.513 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:184 Resp: 420377

Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.5	17.3
183	12.0	9.7	14.5

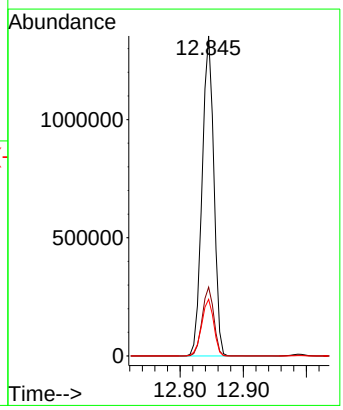


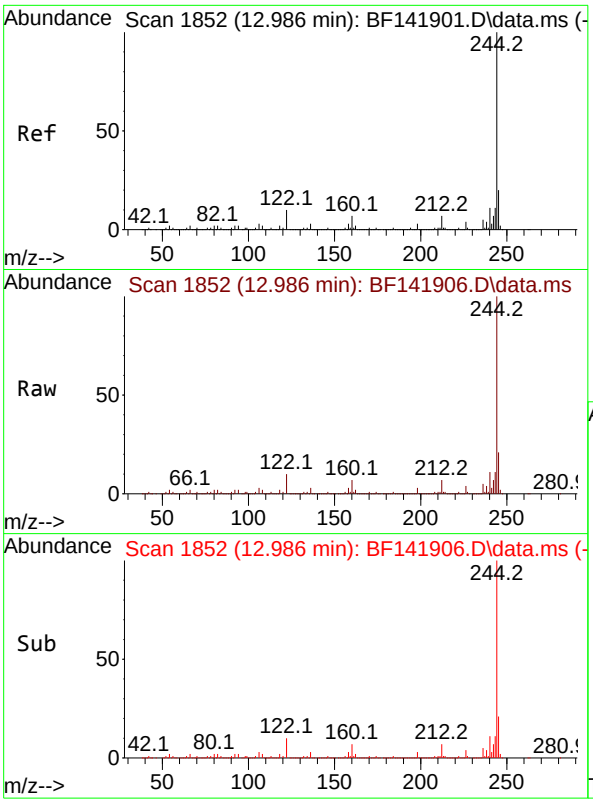


#78
Pyrene
Concen: 38.539 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:202 Resp: 1746456

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.3	25.9
203	17.7	14.4	21.6



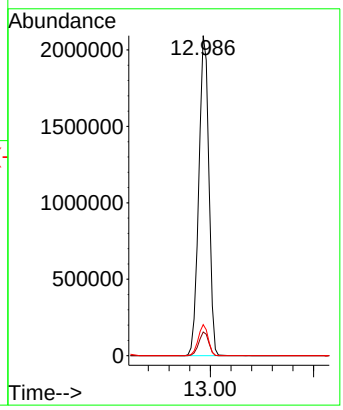


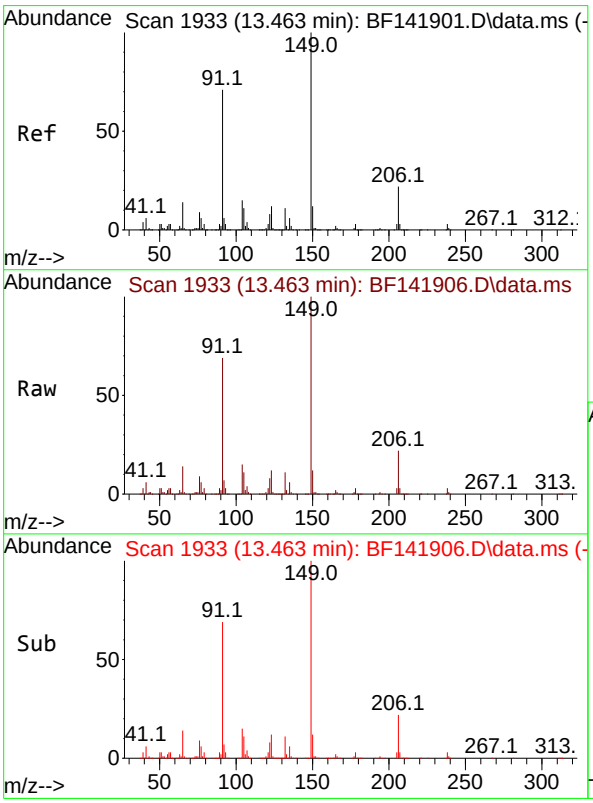
#79
Terphenyl-d14
Concen: 79.748 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:244 Resp: 2825870

Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	9.7	7.7	11.5

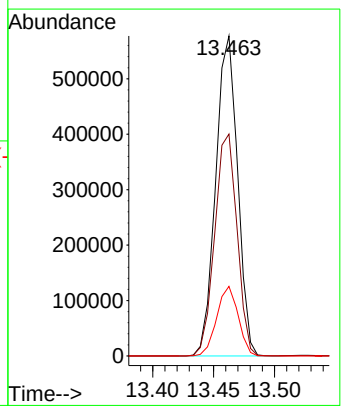


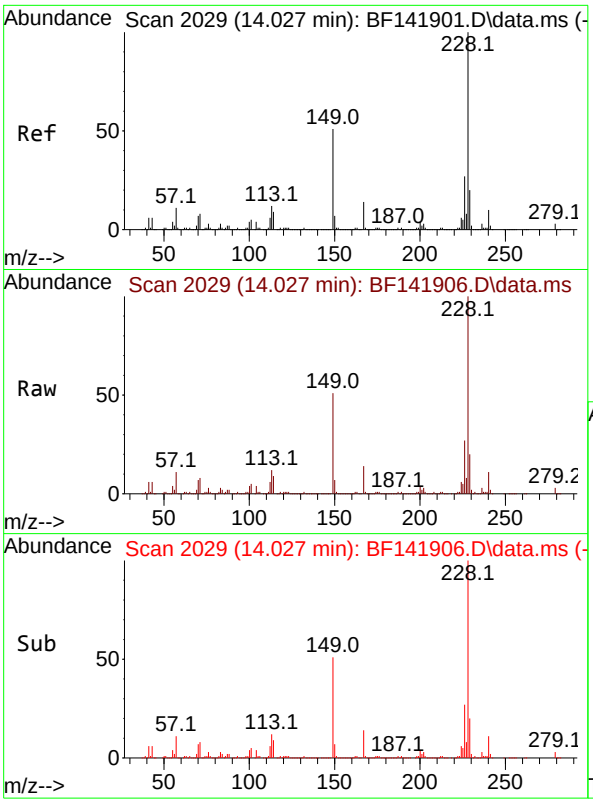


#80
Butylbenzylphthalate
Concen: 40.778 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:149 Resp: 723288

Ion	Ratio	Lower	Upper
149	100		
91	69.3	56.5	84.7
206	21.8	17.3	25.9



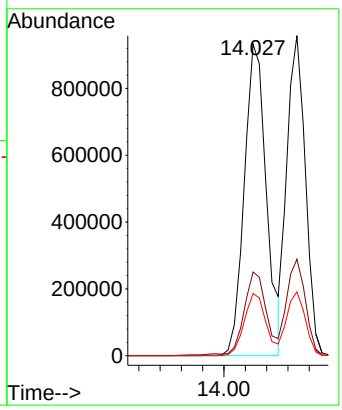


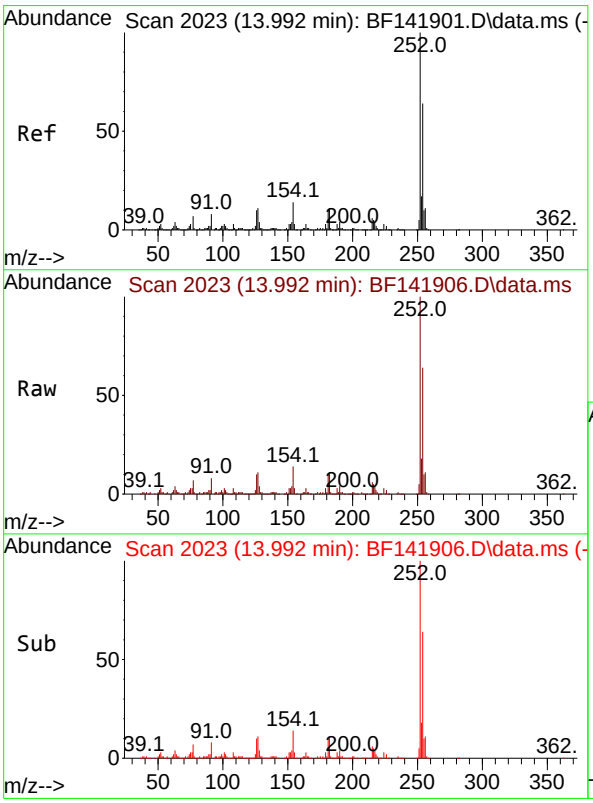
#81
Benzo(a)anthracene
Concen: 39.211 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:228 Resp: 1347977

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	20.0	16.0	24.0

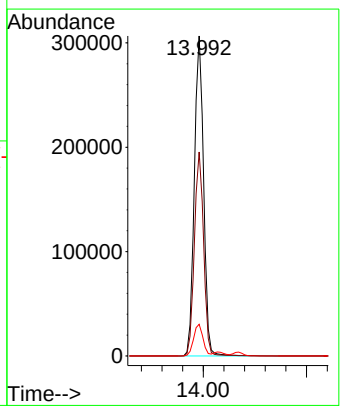


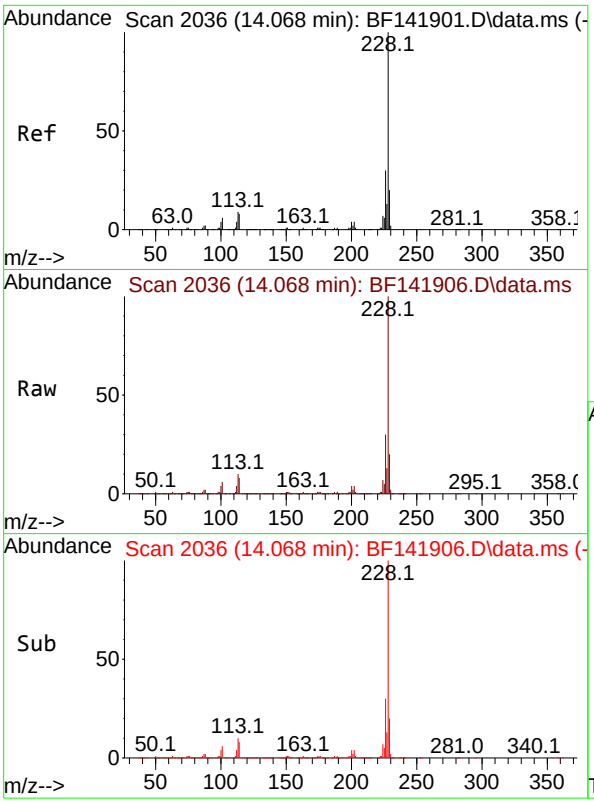


#82
3,3'-Dichlorobenzidine
Concen: 38.337 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:252 Resp: 380866

Ion	Ratio	Lower	Upper
252	100		
254	63.8	51.0	76.6
126	9.9	8.4	12.6



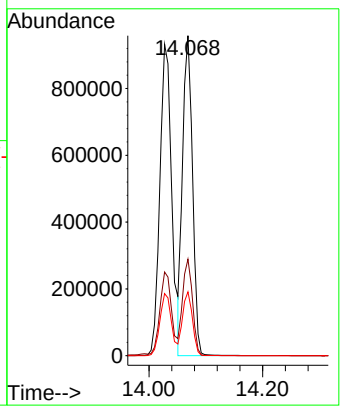


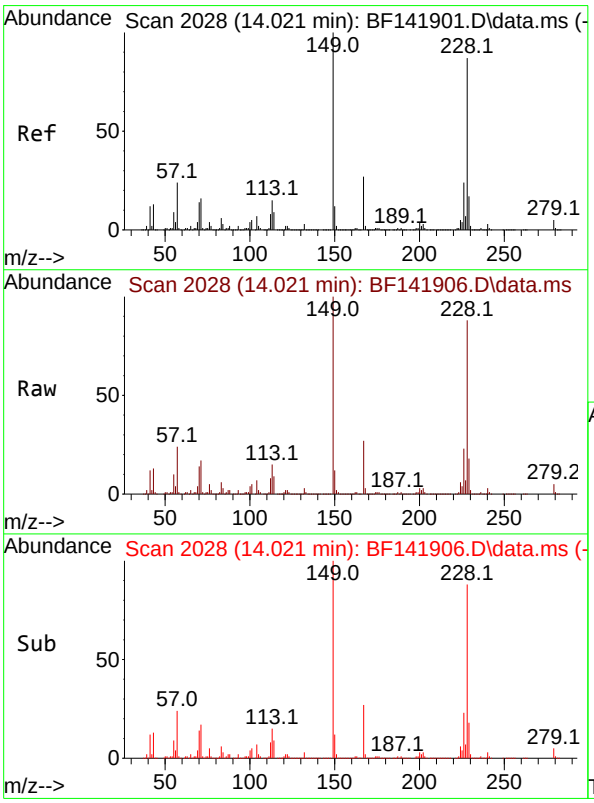
#83
Chrysene
Concen: 37.195 ng
RT: 14.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:228 Resp: 1159074

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.1	36.1
229	20.0	15.7	23.5

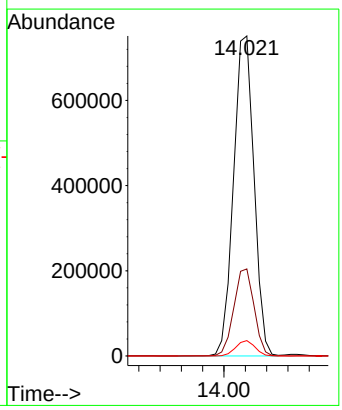


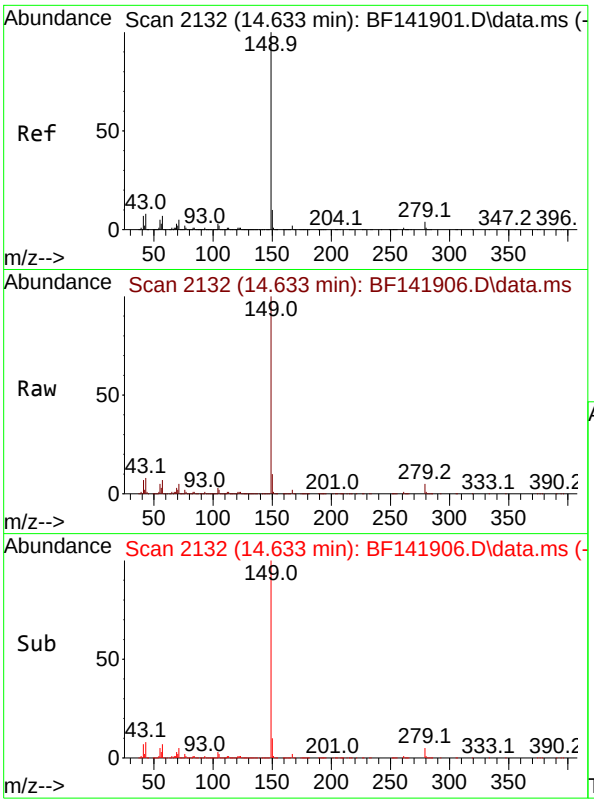


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.142 ng
RT: 14.021 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:149 Resp: 1006170

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.4	32.0
279	4.8	3.8	5.6



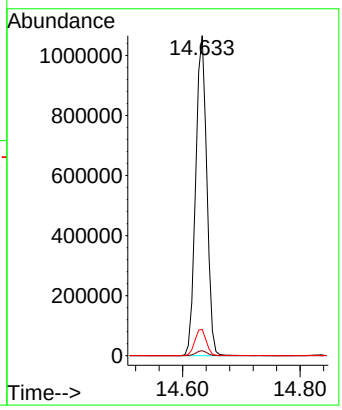


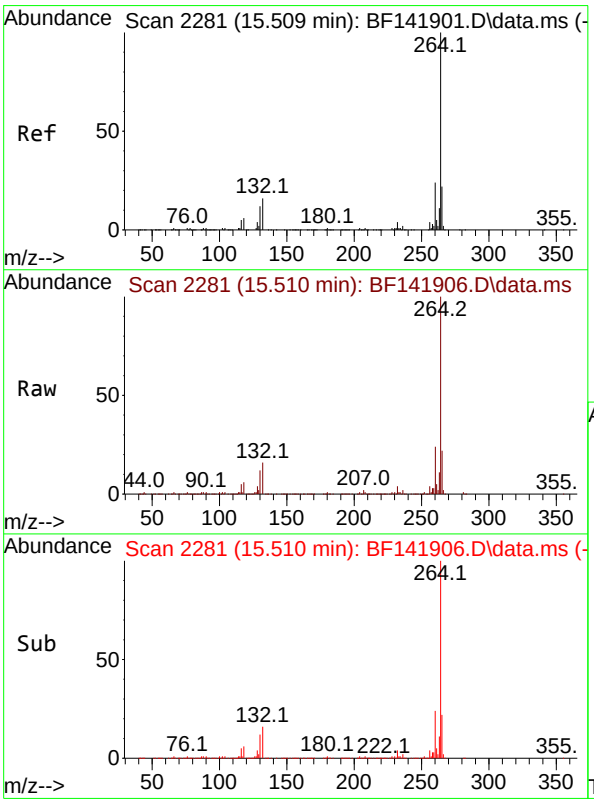
#85
Di-n-octyl phthalate
Concen: 40.971 ng
RT: 14.633 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:149 Resp: 1394136

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.5	6.9	10.3

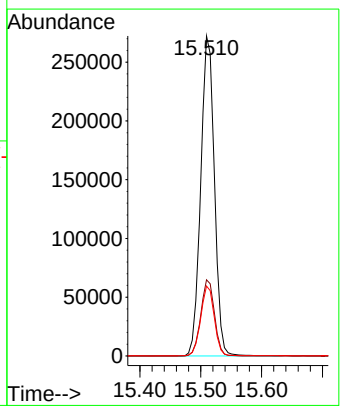


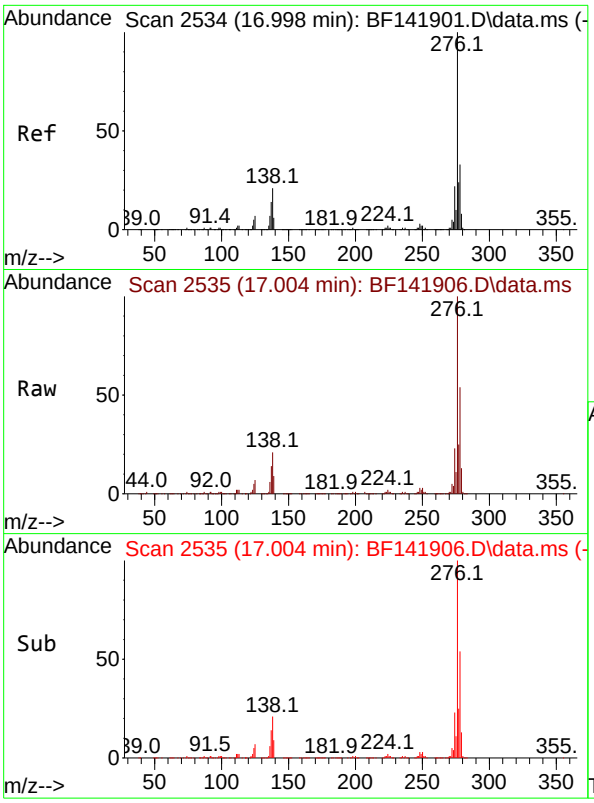


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:264 Resp: 426422

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.1	28.7
265	21.8	17.5	26.3



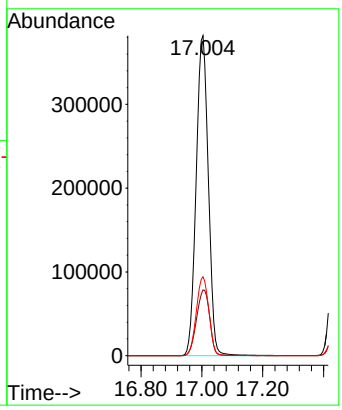


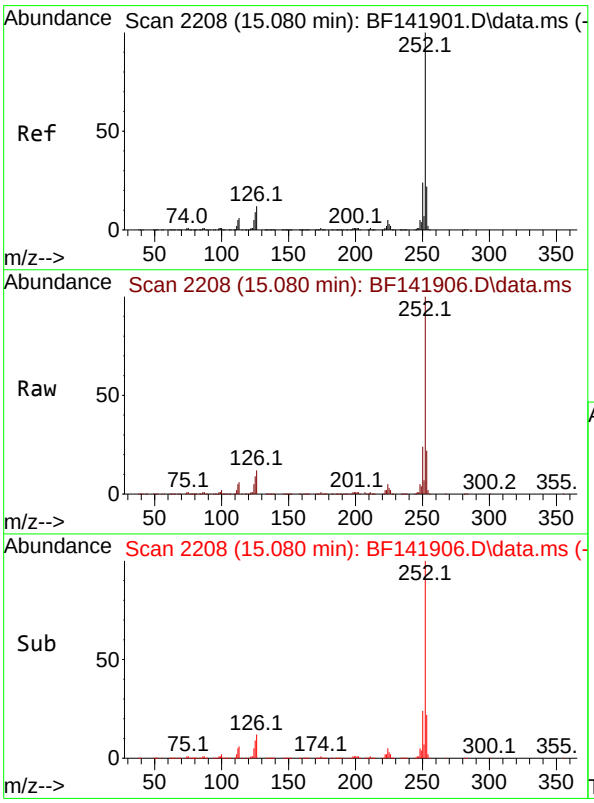
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.467 ng
RT: 17.004 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:276 Resp: 1061096

Ion	Ratio	Lower	Upper
276	100		
138	22.2	18.4	27.6
277	25.3	20.3	30.5

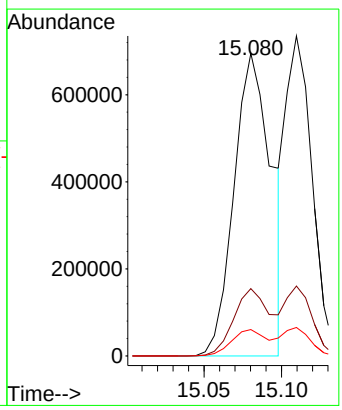


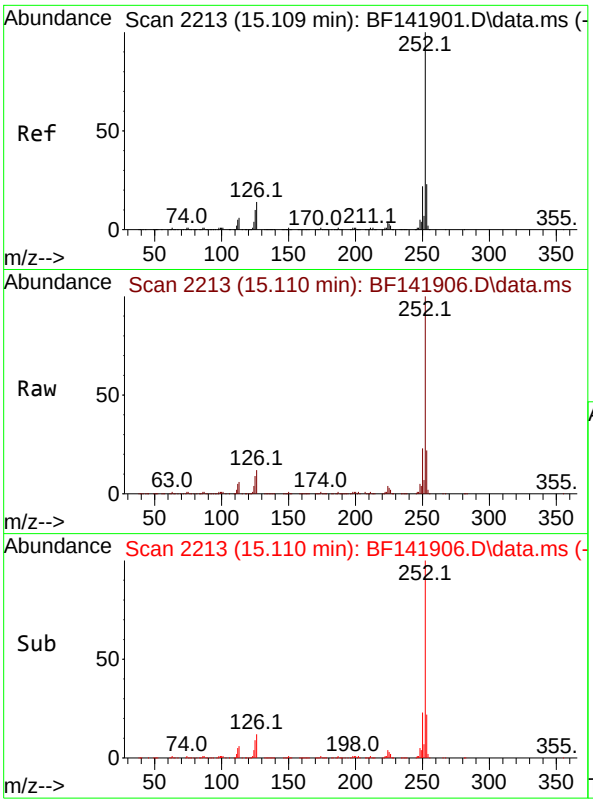


#88
Benzo(b)fluoranthene
Concen: 39.906 ng
RT: 15.080 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:252 Resp: 1166263

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	8.7	7.0	10.4



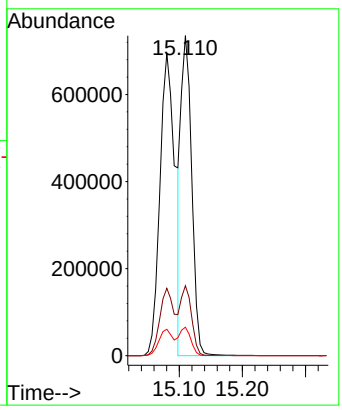


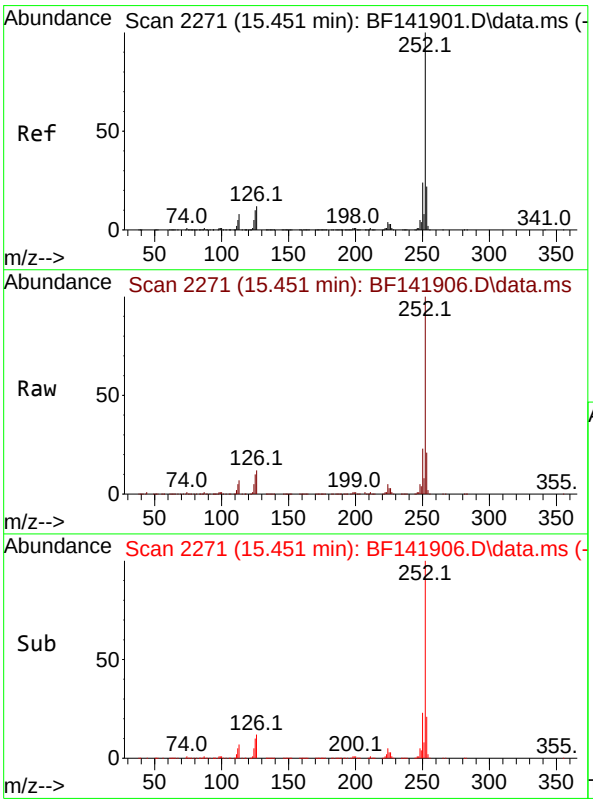
#89
Benzo(k)fluoranthene
Concen: 34.765 ng
RT: 15.110 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:252 Resp: 869471

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	8.9	7.2	10.8

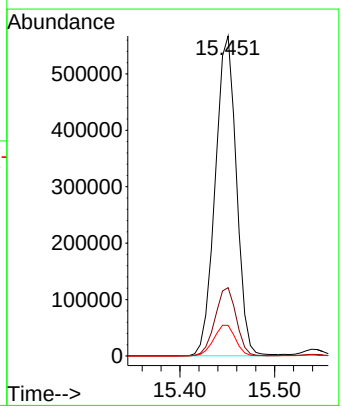


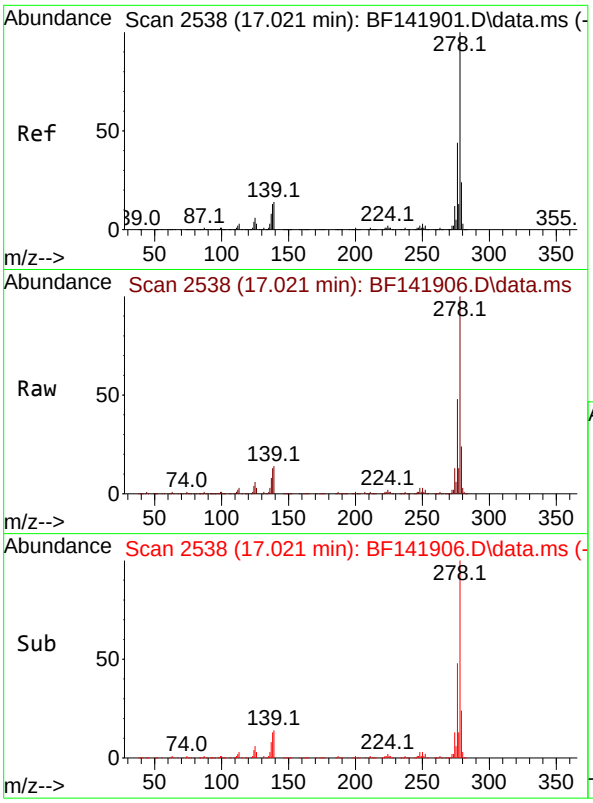


#90
Benzo(a)pyrene
Concen: 38.612 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:252 Resp: 882967

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.0
125	9.6	7.8	11.8



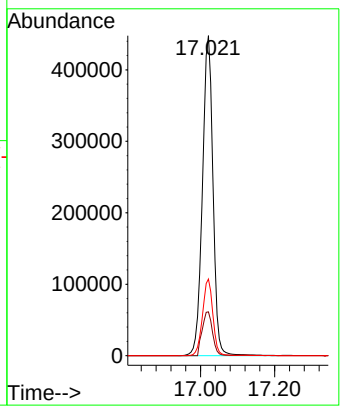


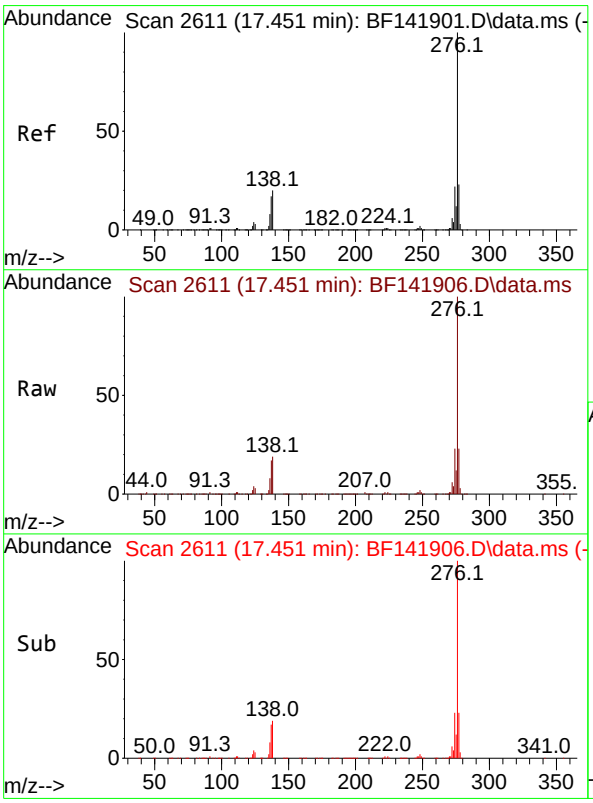
#91
Dibenzo(a,h)anthracene
Concen: 38.931 ng
RT: 17.021 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Tgt Ion:278 Resp: 886038

Ion	Ratio	Lower	Upper
278	100		
139	13.7	11.4	17.2
279	23.9	18.8	28.2

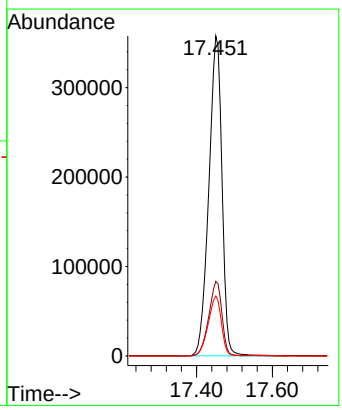




#92
Benzo(g,h,i)perylene
Concen: 38.051 ng
RT: 17.451 min Scan# 2611
Delta R.T. 0.000 min
Lab File: BF141906.D
Acq: 10 Mar 2025 15:53

Tgt Ion:276 Resp: 855812

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.7	28.1
138	18.7	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141906.D
Acq On : 10 Mar 2025 15:53
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Quant Time: Mar 10 16:15:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
2		1,4-Dioxane	0.502	0.485	3.4	91	0.00
3		Pyridine	1.232	1.202	2.4	93	-0.01
4		n-Nitrosodimethylamine	0.587	0.572	2.6	92	0.00
5	S	2-Fluorophenol	1.198	1.151	3.9	94	0.00
6		Aniline	1.505	1.466	2.6	94	0.00
7	S	Phenol-d6	1.526	1.468	3.8	96	0.00
8		2-Chlorophenol	1.329	1.287	3.2	96	0.00
9		Benzaldehyde	0.853	0.810	5.0	98	0.00
10	C	Phenol	1.605	1.570	2.2	96	0.00
11		bis(2-Chloroethyl)ether	1.205	1.152	4.4	95	0.00
12		1,3-Dichlorobenzene	1.435	1.377	4.0	94	0.00
13	C	1,4-Dichlorobenzene	1.452	1.392	4.1	94	0.00
14		1,2-Dichlorobenzene	1.367	1.325	3.1	96	0.00
15		Benzyl Alcohol	1.233	1.215	1.5	96	0.00
16		2,2'-oxybis(1-Chloropropane	1.455	1.358	6.7	94	0.00
17		2-Methylphenol	1.057	1.024	3.1	96	0.00
18		Hexachloroethane	0.544	0.528	2.9	96	0.00
19	P	n-Nitroso-di-n-propylamine	0.980	0.932	4.9	96	0.00
20		3+4-Methylphenols	1.354	1.307	3.5	95	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	96	0.00
22		Acetophenone	0.479	0.451	5.8	94	0.00
23	S	Nitrobenzene-d5	0.355	0.351	1.1	97	0.00
24		Nitrobenzene	0.353	0.344	2.5	96	0.00
25		Isophorone	0.628	0.599	4.6	96	0.00
26	C	2-Nitrophenol	0.173	0.175	-1.2	96	0.00
27		2,4-Dimethylphenol	0.239	0.229	4.2	96	0.00
28		bis(2-Chloroethoxy)methane	0.394	0.374	5.1	97	0.00
29	C	2,4-Dichlorophenol	0.296	0.289	2.4	97	0.00
30		1,2,4-Trichlorobenzene	0.327	0.313	4.3	97	0.00
31		Naphthalene	1.027	0.972	5.4	95	0.00
32		Benzoic acid	0.210	0.222	-5.7	103	0.00
33		4-Chloroaniline	0.363	0.352	3.0	97	0.00
34	C	Hexachlorobutadiene	0.213	0.207	2.8	98	0.00
35		Caprolactam	0.090	0.084	6.7	96	0.00
36	C	4-Chloro-3-methylphenol	0.331	0.319	3.6	96	0.00
37		2-Methylnaphthalene	0.687	0.651	5.2	96	0.00
38		1-Methylnaphthalene	0.663	0.638	3.8	98	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00
40		1,2,4,5-Tetrachlorobenzene	0.609	0.581	4.6	96	0.00
41	P	Hexachlorocyclopentadiene	0.238	0.228	4.2	89	0.00
42	S	2,4,6-Tribromophenol	0.254	0.252	0.8	98	0.00
43	C	2,4,6-Trichlorophenol	0.398	0.391	1.8	96	0.00
44		2,4,5-Trichlorophenol	0.403	0.386	4.2	97	0.00
45	S	2-Fluorobiphenyl	1.315	1.242	5.6	97	0.00
46		1,1'-Biphenyl	1.520	1.451	4.5	98	0.00
47		2-Chloronaphthalene	1.133	1.079	4.8	97	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141906.D
Acq On : 10 Mar 2025 15:53
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Quant Time: Mar 10 16:15:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.328	0.319	2.7	97	0.00
49		Acenaphthylene	1.681	1.585	5.7	95	0.00
50		Dimethylphthalate	1.401	1.317	6.0	97	0.00
51		2,6-Dinitrotoluene	0.292	0.284	2.7	97	0.00
52	C	Acenaphthene	1.181	1.134	4.0	97	0.00
53		3-Nitroaniline	0.296	0.285	3.7	95	0.00
54	P	2,4-Dinitrophenol	0.139	0.148	-6.5	102	0.00
55		Dibenzofuran	1.688	1.594	5.6	97	0.00
56	P	4-Nitrophenol	0.223	0.220	1.3	94	0.00
57		2,4-Dinitrotoluene	0.381	0.374	1.8	98	0.00
58		Fluorene	1.302	1.216	6.6	97	0.00
59		2,3,4,6-Tetrachlorophenol	0.367	0.358	2.5	98	0.00
60		Diethylphthalate	1.397	1.338	4.2	98	0.00
61		4-Chlorophenyl-phenylether	0.679	0.649	4.4	99	0.00
62		4-Nitroaniline	0.288	0.280	2.8	95	0.00
63		Azobenzene	1.298	1.231	5.2	97	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
65		4,6-Dinitro-2-methylphenol	0.119	0.123	-3.4	99	0.00
66	c	n-Nitrosodiphenylamine	0.647	0.619	4.3	97	0.00
67		4-Bromophenyl-phenylether	0.251	0.245	2.4	97	0.00
68		Hexachlorobenzene	0.275	0.274	0.4	99	0.00
69		Atrazine	0.198	0.158	20.2	94	0.00
70	C	Pentachlorophenol	0.170	0.178	-4.7	97	0.00
71		Phenanthrene	1.080	1.036	4.1	97	0.00
72		Anthracene	1.084	1.029	5.1	95	0.00
73		Carbazole	0.935	0.892	4.6	95	0.00
74		Di-n-butylphthalate	1.240	1.200	3.2	99	0.00
75	C	Fluoranthene	1.146	1.076	6.1	94	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	92	0.00
77		Benzidine	0.279	0.401	-43.7#	103	0.00
78		Pyrene	1.730	1.667	3.6	95	0.00
79	S	Terphenyl-d14	1.353	1.349	0.3	97	0.00
80		Butylbenzylphthalate	0.677	0.690	-1.9	97	0.00
81		Benzo(a)anthracene	1.312	1.287	1.9	93	0.00
82		3,3'-Dichlorobenzidine	0.379	0.363	4.2	90	0.00
83		Chrysene	1.190	1.106	7.1	90	0.00
84		Bis(2-ethylhexyl)phthalate	0.934	0.960	-2.8	98	0.00
85	c	Di-n-octyl phthalate	1.299	1.331	-2.5	97	0.00
86	I	Perylene-d12	1.000	1.000	0.0	91	0.00
87		Indeno(1,2,3-cd)pyrene	1.294	1.244	3.9	88	0.00
88		Benzo(b)fluoranthene	1.371	1.367	0.3	103	0.00
89		Benzo(k)fluoranthene	1.173	1.019	13.1	77	0.00
90	C	Benzo(a)pyrene	1.073	1.035	3.5	91	0.00
91		Dibenzo(a,h)anthracene	1.067	1.039	2.6	88	0.00
92		Benzo(g,h,i)perylene	1.055	1.003	4.9	86	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141906.D
Acq On : 10 Mar 2025 15:53
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Quant Time: Mar 10 16:15:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141906.D
Acq On : 10 Mar 2025 15:53
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Quant Time: Mar 10 16:15:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	94	0.00
2		1,4-Dioxane	40.000	38.670	3.3	91	0.00
3		Pyridine	40.000	39.050	2.4	93	-0.01
4		n-Nitrosodimethylamine	40.000	38.959	2.6	92	0.00
5	S	2-Fluorophenol	80.000	76.823	4.0	94	0.00
6		Aniline	40.000	38.958	2.6	94	0.00
7	S	Phenol-d6	80.000	76.962	3.8	96	0.00
8		2-Chlorophenol	40.000	38.721	3.2	96	0.00
9		Benzaldehyde	40.000	37.950	5.1	98	0.00
10	C	Phenol	40.000	39.115	2.2	96	0.00
11		bis(2-Chloroethyl)ether	40.000	38.246	4.4	95	0.00
12		1,3-Dichlorobenzene	40.000	38.391	4.0	94	0.00
13	C	1,4-Dichlorobenzene	40.000	38.366	4.1	94	0.00
14		1,2-Dichlorobenzene	40.000	38.744	3.1	96	0.00
15		Benzyl Alcohol	40.000	39.408	1.5	96	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.338	6.7	94	0.00
17		2-Methylphenol	40.000	38.775	3.1	96	0.00
18		Hexachloroethane	40.000	38.797	3.0	96	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.038	4.9	96	0.00
20		3+4-Methylphenols	40.000	38.619	3.5	95	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	96	0.00
22		Acetophenone	40.000	37.650	5.9	94	0.00
23	S	Nitrobenzene-d5	80.000	78.962	1.3	97	0.00
24		Nitrobenzene	40.000	38.980	2.6	96	0.00
25		Isophorone	40.000	38.163	4.6	96	0.00
26	C	2-Nitrophenol	40.000	40.429	-1.1	96	0.00
27		2,4-Dimethylphenol	40.000	38.414	4.0	96	0.00
28		bis(2-Chloroethoxy)methane	40.000	37.943	5.1	97	0.00
29	C	2,4-Dichlorophenol	40.000	38.952	2.6	97	0.00
30		1,2,4-Trichlorobenzene	40.000	38.336	4.2	97	0.00
31		Naphthalene	40.000	37.827	5.4	95	0.00
32		Benzoic acid	40.000	42.303	-5.8	103	0.00
33		4-Chloroaniline	40.000	38.847	2.9	97	0.00
34	C	Hexachlorobutadiene	40.000	38.849	2.9	98	0.00
35		Caprolactam	40.000	37.276	6.8	96	0.00
36	C	4-Chloro-3-methylphenol	40.000	38.550	3.6	96	0.00
37		2-Methylnaphthalene	40.000	37.935	5.2	96	0.00
38		1-Methylnaphthalene	40.000	38.484	3.8	98	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	98	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.191	4.5	96	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.281	4.3	89	0.00
42	S	2,4,6-Tribromophenol	80.000	79.342	0.8	98	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.292	1.8	96	0.00
44		2,4,5-Trichlorophenol	40.000	38.263	4.3	97	0.00
45	S	2-Fluorobiphenyl	80.000	75.528	5.6	97	0.00
46		1,1'-Biphenyl	40.000	38.182	4.5	98	0.00
47		2-Chloronaphthalene	40.000	38.090	4.8	97	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141906.D
Acq On : 10 Mar 2025 15:53
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Quant Time: Mar 10 16:15:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	38.908	2.7	97	0.00
49		Acenaphthylene	40.000	37.725	5.7	95	0.00
50		Dimethylphthalate	40.000	37.611	6.0	97	0.00
51		2,6-Dinitrotoluene	40.000	38.970	2.6	97	0.00
52	C	Acenaphthene	40.000	38.405	4.0	97	0.00
53		3-Nitroaniline	40.000	38.561	3.6	95	0.00
54	P	2,4-Dinitrophenol	40.000	39.326	1.7	102	0.00
55		Dibenzofuran	40.000	37.778	5.6	97	0.00
56	P	4-Nitrophenol	40.000	39.425	1.4	94	0.00
57		2,4-Dinitrotoluene	40.000	39.291	1.8	98	0.00
58		Fluorene	40.000	37.381	6.5	97	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.070	2.3	98	0.00
60		Diethylphthalate	40.000	38.337	4.2	98	0.00
61		4-Chlorophenyl-phenylether	40.000	38.272	4.3	99	0.00
62		4-Nitroaniline	40.000	38.953	2.6	95	0.00
63		Azobenzene	40.000	37.911	5.2	97	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	97	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.415	-3.5	99	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.283	4.3	97	0.00
67		4-Bromophenyl-phenylether	40.000	39.015	2.5	97	0.00
68		Hexachlorobenzene	40.000	39.789	0.5	99	0.00
69		Atrazine	40.000	31.945	20.1	94	0.00
70	C	Pentachlorophenol	40.000	41.955	-4.9	97	0.00
71		Phenanthrene	40.000	38.357	4.1	97	0.00
72		Anthracene	40.000	37.991	5.0	95	0.00
73		Carbazole	40.000	38.167	4.6	95	0.00
74		Di-n-butylphthalate	40.000	38.717	3.2	99	0.00
75	C	Fluoranthene	40.000	37.545	6.1	94	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	92	0.00
77		Benzidine	40.000	57.513	-43.8#	103	0.00
78		Pyrene	40.000	38.539	3.7	95	0.00
79	S	Terphenyl-d14	80.000	79.748	0.3	97	0.00
80		Butylbenzylphthalate	40.000	40.778	-1.9	97	0.00
81		Benzo(a)anthracene	40.000	39.211	2.0	93	0.00
82		3,3'-Dichlorobenzidine	40.000	38.337	4.2	90	0.00
83		Chrysene	40.000	37.195	7.0	90	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.142	-2.9	98	0.00
85	c	Di-n-octyl phthalate	40.000	40.971	-2.4	97	0.00
86	I	Perylene-d12	20.000	20.000	0.0	91	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	38.467	3.8	88	0.00
88		Benzo(b)fluoranthene	40.000	39.906	0.2	103	0.00
89		Benzo(k)fluoranthene	40.000	34.765	13.1	77	0.00
90	C	Benzo(a)pyrene	40.000	38.612	3.5	91	0.00
91		Dibenzo(a,h)anthracene	40.000	38.931	2.7	88	0.00
92		Benzo(g,h,i)perylene	40.000	38.051	4.9	86	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141906.D
Acq On : 10 Mar 2025 15:53
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF031025

Quant Time: Mar 10 16:15:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG No.: Q1569

Instrument ID: BNA_F Calibration Date/Time: 03/18/2025 10:00

Lab File ID: BF141986.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:01 15:20

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.232	1.146		-7.0	
2-Fluorophenol	1.198	1.134		-5.3	
Phenol-d6	1.526	1.389		-9.0	
1,4-Dichlorobenzene	1.452	1.376		-5.2	20.0
2-Methylphenol	1.057	0.935		-11.5	
3+4-Methylphenols	1.354	1.180		-12.9	
Nitrobenzene-d5	0.355	0.347		-2.3	
Hexachloroethane	0.544	0.511		-6.1	
Nitrobenzene	0.353	0.341		-3.4	
Hexachlorobutadiene	0.213	0.218		2.3	20.0
2,4,6-Trichlorophenol	0.398	0.390		-2.0	20.0
2-Fluorobiphenyl	1.315	1.277		-2.9	
2,4,5-Trichlorophenol	0.403	0.408		1.2	
2,4-Dinitrotoluene	0.381	0.373		-2.1	
2,4,6-Tribromophenol	0.254	0.249		-2.0	
Hexachlorobenzene	0.275	0.281		2.2	
Pentachlorophenol	0.170	0.180		5.9	20.0
Terphenyl-d14	1.353	1.221		-9.8	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141986.D
Acq On : 18 Mar 2025 10:00
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 18 11:21:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	200429	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	738787	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	404779	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	656489	20.000	ng	0.00
76) Chrysene-d12	14.045	240	423581	20.000	ng	0.00
86) Perylene-d12	15.515	264	442923	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	909106	75.701	ng	0.00
7) Phenol-d6	6.510	99	1113971	72.854	ng	0.00
23) Nitrobenzene-d5	7.445	82	1025549	78.120	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	402460	78.373	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2068249	77.707	ng	0.00
79) Terphenyl-d14	12.986	244	2069130	72.220	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.652	88	187449	37.252	ng	99
3) Pyridine	3.422	79	459475	37.226	ng	97
4) n-Nitrosodimethylamine	3.375	42	214260	36.416	ng	98
6) Aniline	6.545	93	531108	35.210	ng	99
8) 2-Chlorophenol	6.669	128	493685	37.066	ng	99
9) Benzaldehyde	6.434	77	287856	33.661	ng	99
10) Phenol	6.522	94	582165	36.191	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	429686	35.574	ng	100
12) 1,3-Dichlorobenzene	6.822	146	553496	38.492	ng	99
13) 1,4-Dichlorobenzene	6.898	146	551604	37.914	ng	100
14) 1,2-Dichlorobenzene	7.051	146	516845	37.716	ng	99
15) Benzyl Alcohol	7.022	79	445385	36.030	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	482996	33.122	ng	98
17) 2-Methylphenol	7.128	107	374824	35.394	ng	99
18) Hexachloroethane	7.392	117	204881	37.553	ng	97
19) n-Nitroso-di-n-propyla...	7.292	70	326111	33.192	ng	98
20) 3+4-Methylphenols	7.281	107	473000	34.870	ng	98
22) Acetophenone	7.292	105	662001	37.418	ng	99
24) Nitrobenzene	7.463	77	504274	38.639	ng	100
25) Isophorone	7.704	82	837909	36.108	ng	100
26) 2-Nitrophenol	7.781	139	265215	41.405	ng	98
27) 2,4-Dimethylphenol	7.810	122	330795	37.506	ng	98
28) bis(2-Chloroethoxy)met...	7.910	93	534309	36.710	ng	100
29) 2,4-Dichlorophenol	8.016	162	420375	38.399	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	480233	39.805	ng	98
31) Naphthalene	8.186	128	1454452	38.325	ng	100
32) Benzoic acid	7.928	122	324807	41.895	ng	97
33) 4-Chloroaniline	8.233	127	498828	37.234	ng	97
34) Hexachlorobutadiene	8.298	225	322471	40.986	ng	99
35) Caprolactam	8.604	113	120360	36.061	ng	92
36) 4-Chloro-3-methylphenol	8.710	107	453675	37.150	ng	98
37) 2-Methylnaphthalene	8.875	142	952409	37.546	ng	100
38) 1-Methylnaphthalene	8.975	142	920289	37.596	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	496252	40.267	ng	99
41) Hexachlorocyclopentadiene	9.028	237	194522	40.332	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	315456	39.167	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141986.D
Acq On : 18 Mar 2025 10:00
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 18 11:21:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

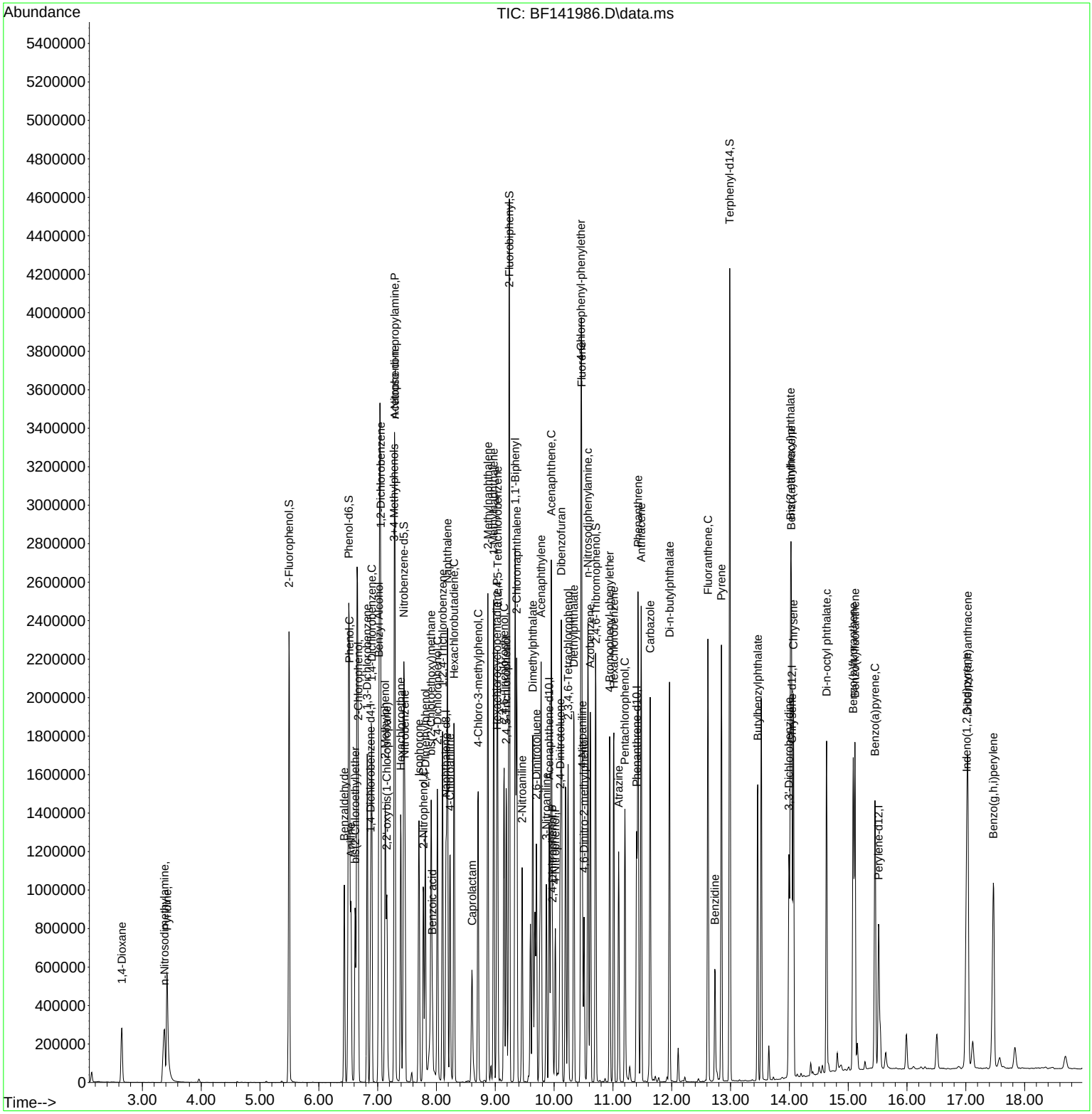
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	330026	40.458	ng		100
46) 1,1'-Biphenyl	9.339	154	1184016	38.497	ng		99
47) 2-Chloronaphthalene	9.363	162	885839	38.643	ng		100
48) 2-Nitroaniline	9.457	65	252402	38.027	ng		98
49) Acenaphthylene	9.780	152	1310429	38.522	ng		100
50) Dimethylphthalate	9.639	163	1062885	37.497	ng		100
51) 2,6-Dinitrotoluene	9.698	165	230313	39.024	ng		96
52) Acenaphthene	9.951	154	935747	39.142	ng		99
53) 3-Nitroaniline	9.869	138	228599	38.185	ng		98
54) 2,4-Dinitrophenol	9.975	184	125830	41.015	ng	#	50
55) Dibenzofuran	10.122	168	1311220	38.386	ng		99
56) 4-Nitrophenol	10.022	139	178419	39.520	ng		97
57) 2,4-Dinitrotoluene	10.104	165	301789	39.151	ng		97
58) Fluorene	10.469	166	992294	37.669	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	291029	39.207	ng		98
60) Diethylphthalate	10.333	149	1053367	37.269	ng		100
61) 4-Chlorophenyl-phenyle...	10.457	204	526771	38.356	ng		97
62) 4-Nitroaniline	10.480	138	221139	37.942	ng		99
63) Azobenzene	10.616	77	951940	36.226	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	168574	43.074	ng		100
66) n-Nitrosodiphenylamine	10.575	169	842525	39.659	ng		100
67) 4-Bromophenyl-phenylether	10.945	248	332055	40.275	ng		99
68) Hexachlorobenzene	11.016	284	368782	40.783	ng		94
69) Atrazine	11.098	200	221880	34.069	ng		99
70) Pentachlorophenol	11.204	266	235941	42.349	ng		100
71) Phenanthrene	11.427	178	1365675	38.514	ng		99
72) Anthracene	11.480	178	1371511	38.553	ng		99
73) Carbazole	11.633	167	1139310	37.135	ng		100
74) Di-n-butylphthalate	11.963	149	1504625	36.961	ng		99
75) Fluoranthene	12.616	202	1328836	35.328	ng		100
77) Benzidine	12.733	184	345723	58.500	ng		100
78) Pyrene	12.845	202	1310463	35.766	ng		100
80) Butylbenzylphthalate	13.463	149	511817	35.689	ng		97
81) Benzo(a)anthracene	14.033	228	1055282	37.966	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	349244	43.479	ng		98
83) Chrysene	14.068	228	968167	38.426	ng		100
84) Bis(2-ethylhexyl)phtha...	14.021	149	726375	36.735	ng		99
85) Di-n-octyl phthalate	14.633	149	1167717	42.443	ng		99
87) Indeno(1,2,3-cd)pyrene	17.015	276	1169448	40.816	ng		97
88) Benzo(b)fluoranthene	15.086	252	1150357	37.895	ng		99
89) Benzo(k)fluoranthene	15.115	252	850896	32.755	ng		99
90) Benzo(a)pyrene	15.457	252	893373	37.612	ng		99
91) Dibenzo(a,h)anthracene	17.033	278	965934	40.860	ng		99
92) Benzo(g,h,i)perylene	17.468	276	956656	40.951	ng		98

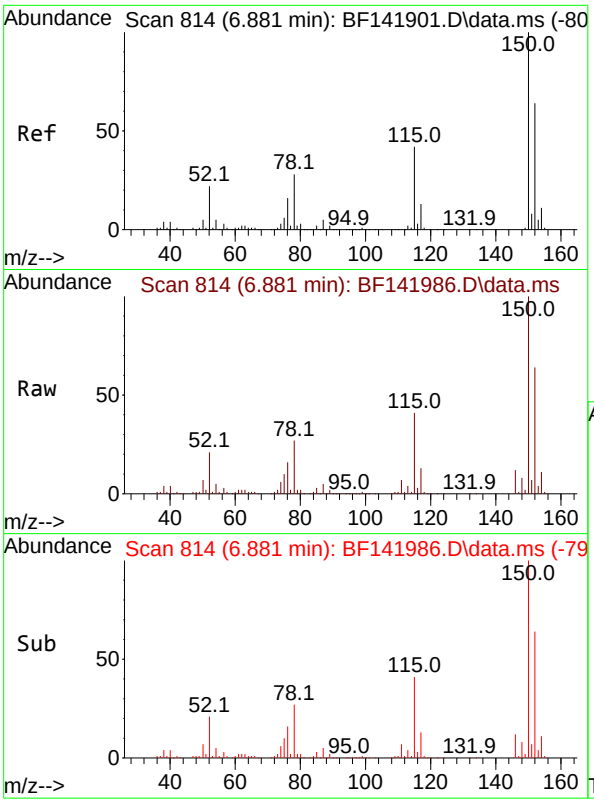
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141986.D
Acq On : 18 Mar 2025 10:00
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 18 11:21:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration



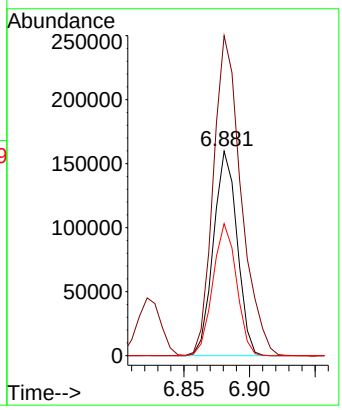


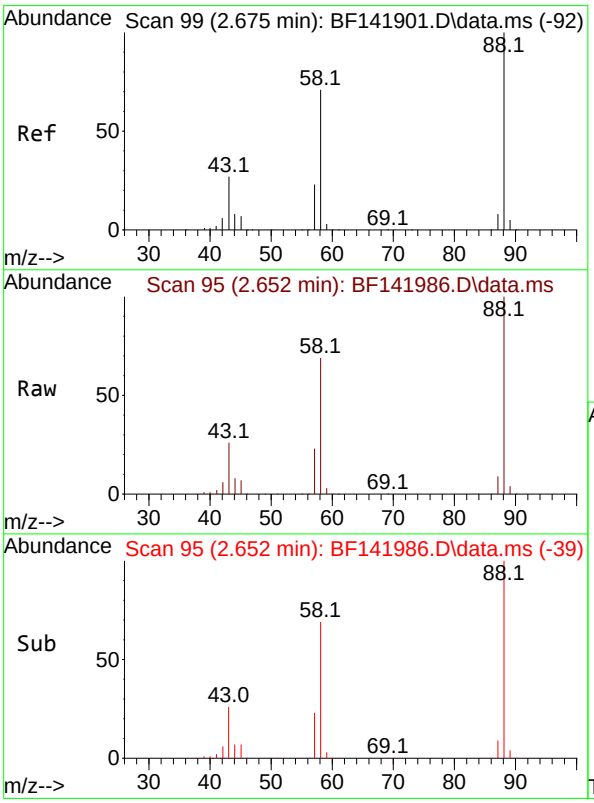
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 200429

Ion	Ratio	Lower	Upper
152	100		
150	156.5	127.4	191.2
115	64.6	51.9	77.9

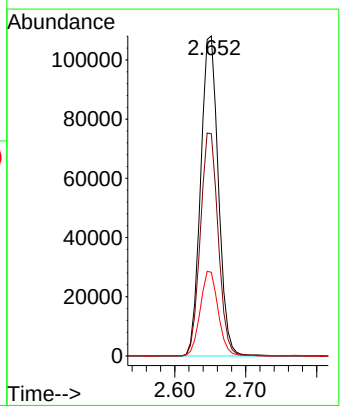


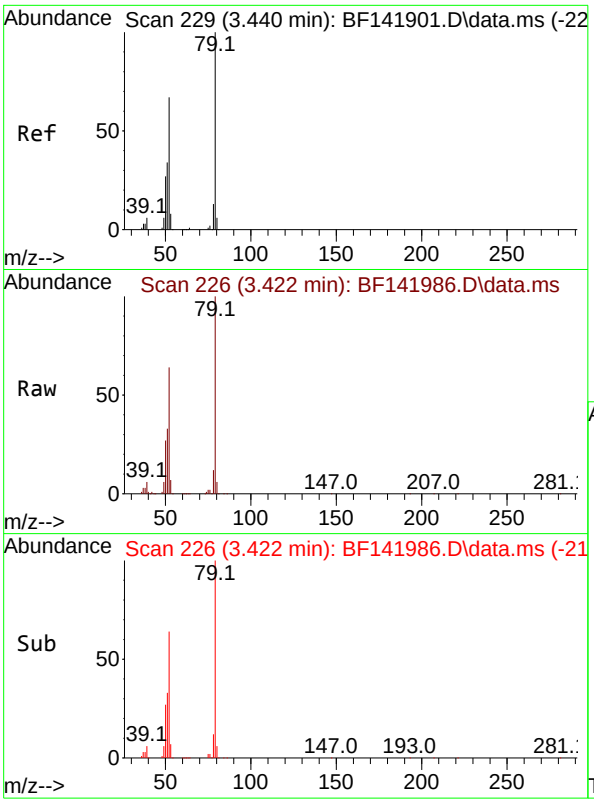


#2
1,4-Dioxane
Concen: 37.252 ng
RT: 2.652 min Scan# 95
Delta R.T. -0.023 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion: 88 Resp: 187449

Ion	Ratio	Lower	Upper
88	100		
58	70.3	57.4	86.2
43	26.9	21.5	32.3



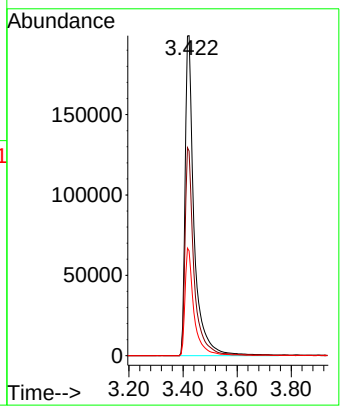


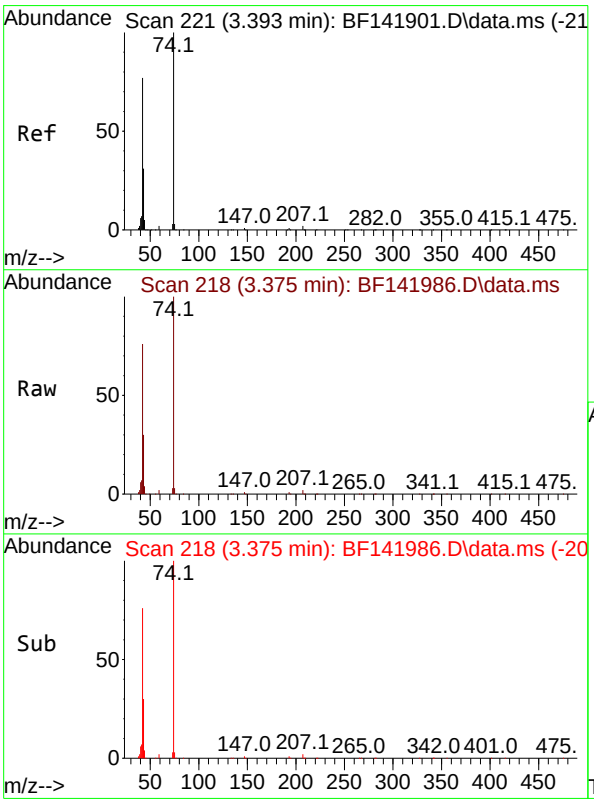
#3
Pyridine
Concen: 37.226 ng
RT: 3.422 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 459475

Ion	Ratio	Lower	Upper
79	100		
52	64.0	53.3	79.9
51	32.8	27.6	41.4

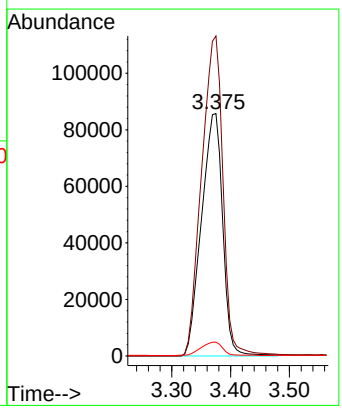


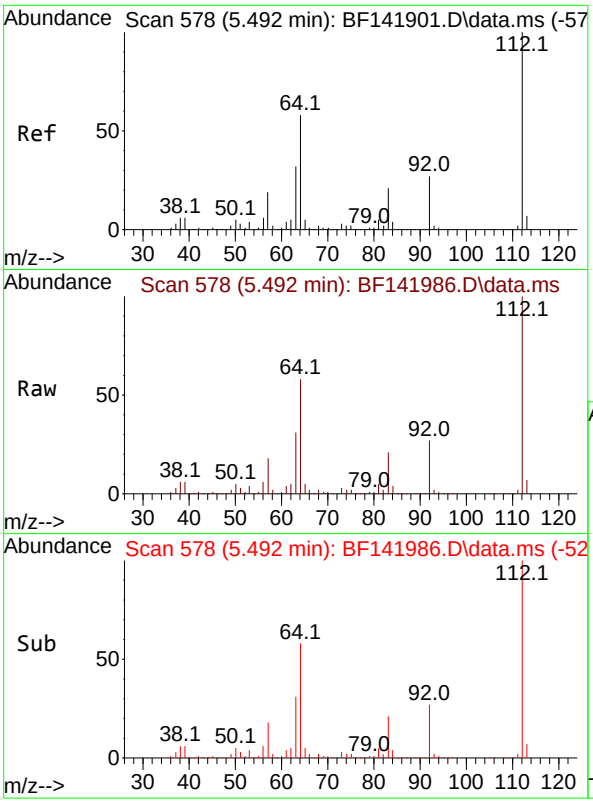


#4
n-Nitrosodimethylamine
Concen: 36.416 ng
RT: 3.375 min Scan# 218
Delta R.T. -0.018 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion: 42 Resp: 214260

Ion	Ratio	Lower	Upper
42	100		
74	132.0	103.4	155.0
44	5.7	5.0	7.4



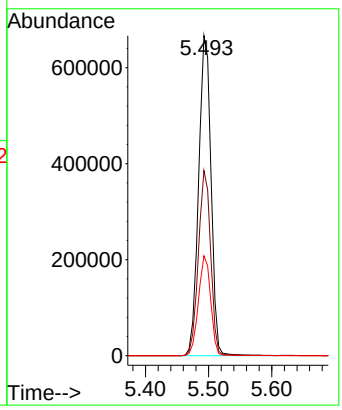


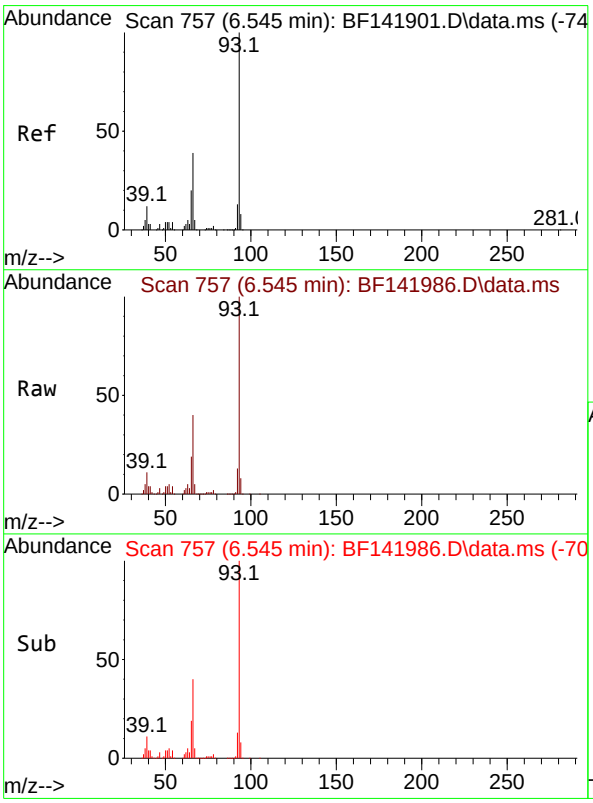
#5
2-Fluorophenol
Concen: 75.701 ng
RT: 5.492 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 909106

Ion	Ratio	Lower	Upper
112	100		
64	57.8	46.5	69.7
63	31.2	25.4	38.2

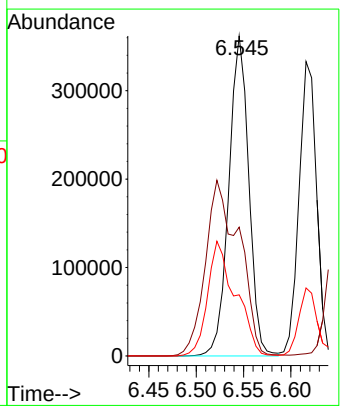


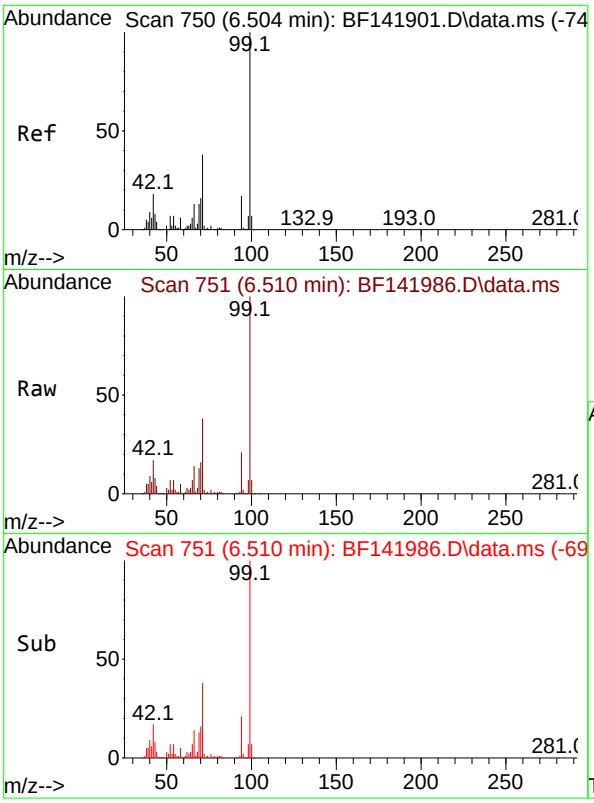


#6
Aniline
Concen: 35.210 ng
RT: 6.545 min Scan# 757
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion: 93 Resp: 531108

Ion	Ratio	Lower	Upper
93	100		
66	40.2	31.9	47.9
65	19.1	15.8	23.6



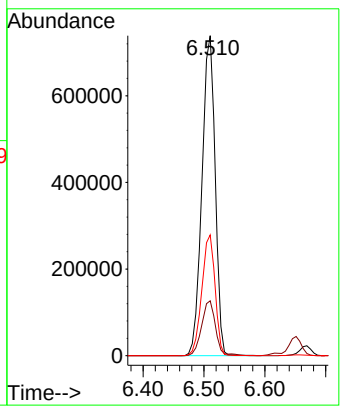


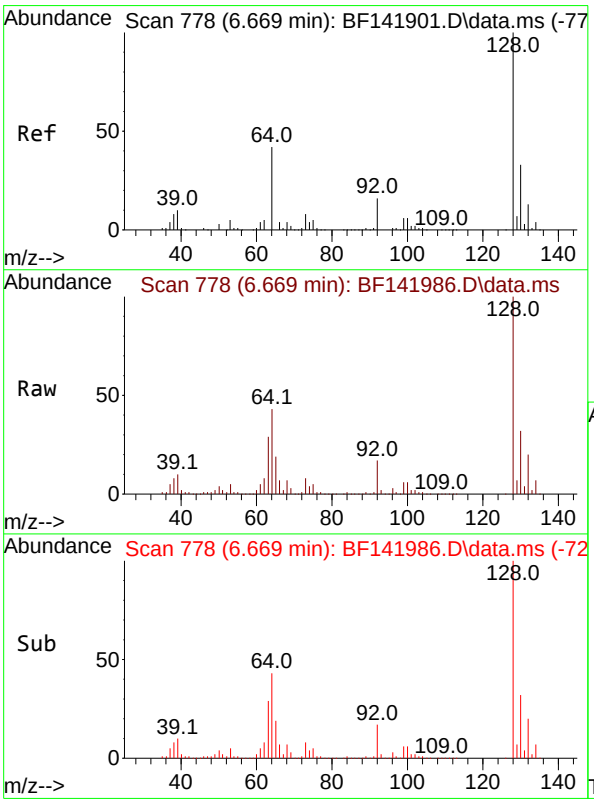
#7
Phenol-d6
Concen: 72.854 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 1113971

Ion	Ratio	Lower	Upper
99	100		
42	17.2	14.6	21.8
71	37.8	30.8	46.2

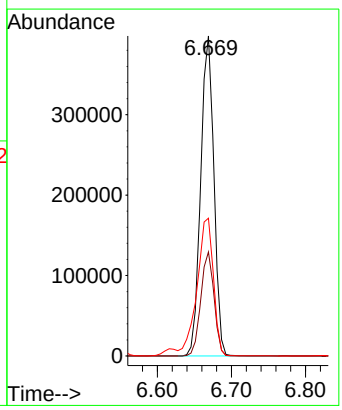


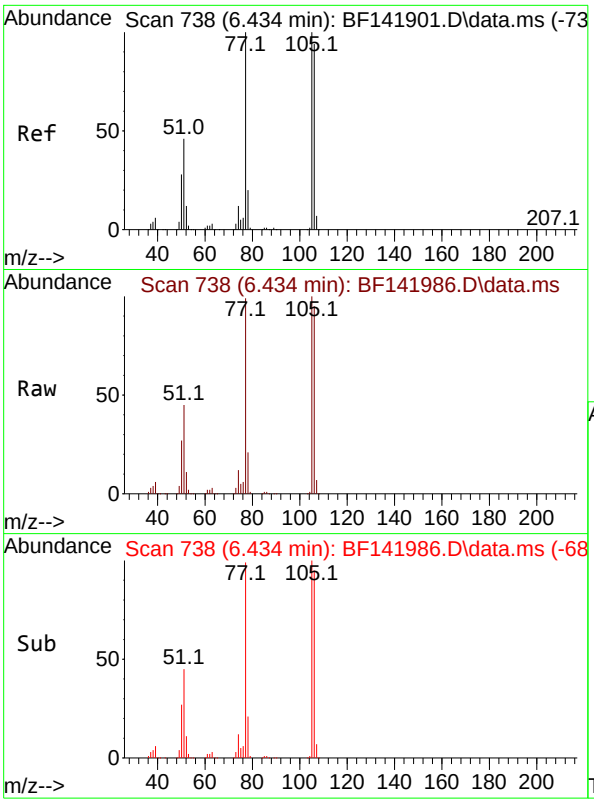


#8
2-Chlorophenol
Concen: 37.066 ng
RT: 6.669 min Scan# 778
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:128 Resp: 493685

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.8	52.8
64	43.1	24.4	64.4



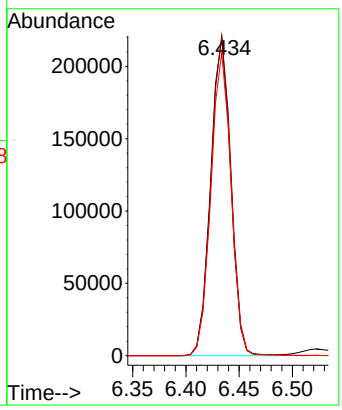


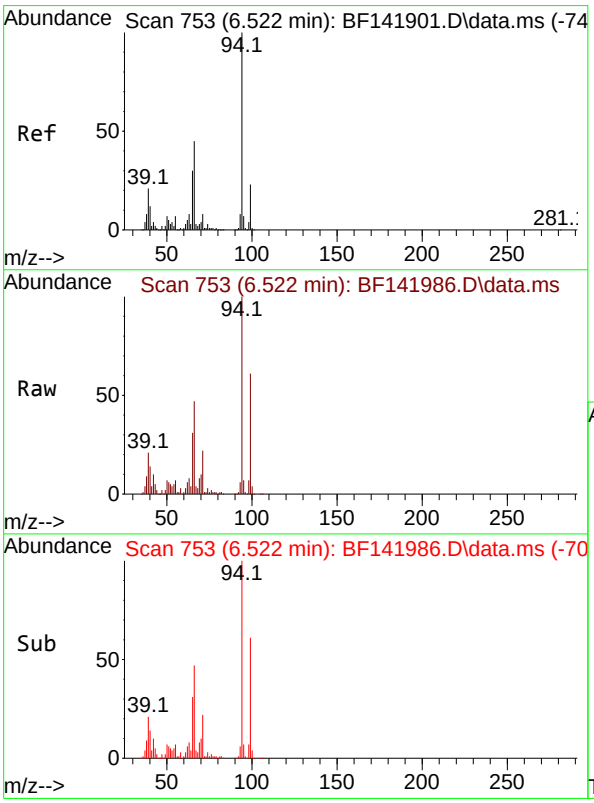
#9
Benzaldehyde
Concen: 33.661 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 287856

Ion	Ratio	Lower	Upper
77	100		
105	100.7	80.0	120.0
106	95.3	74.5	114.5

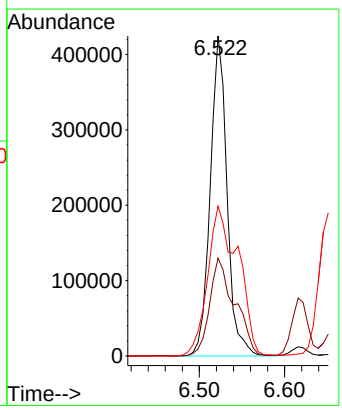


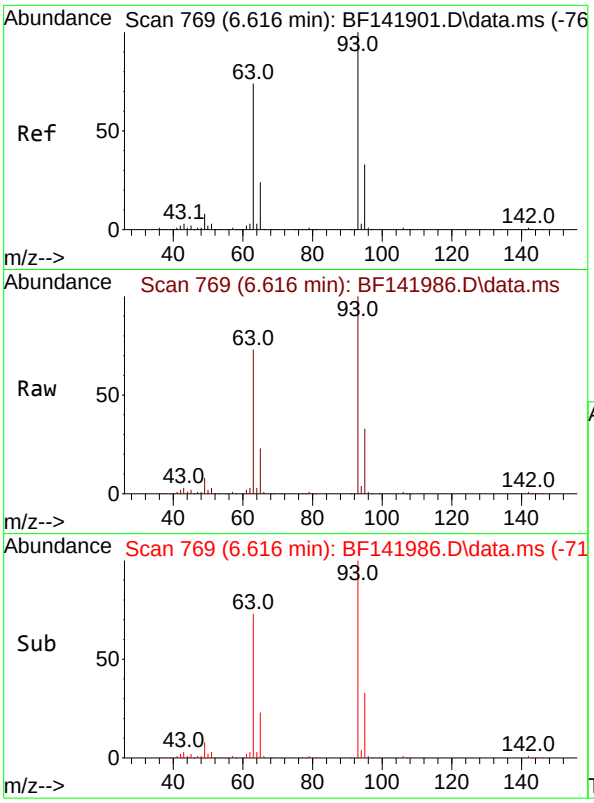


#10
Phenol
Concen: 36.191 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion: 94 Resp: 582165

Ion	Ratio	Lower	Upper
94	100		
65	30.5	10.5	50.5
66	46.8	25.8	65.8



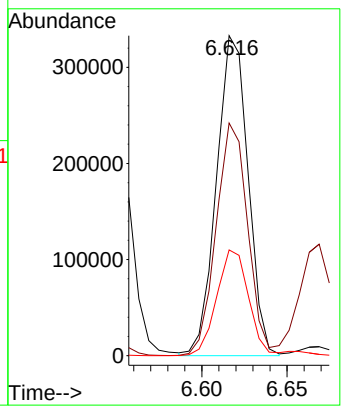


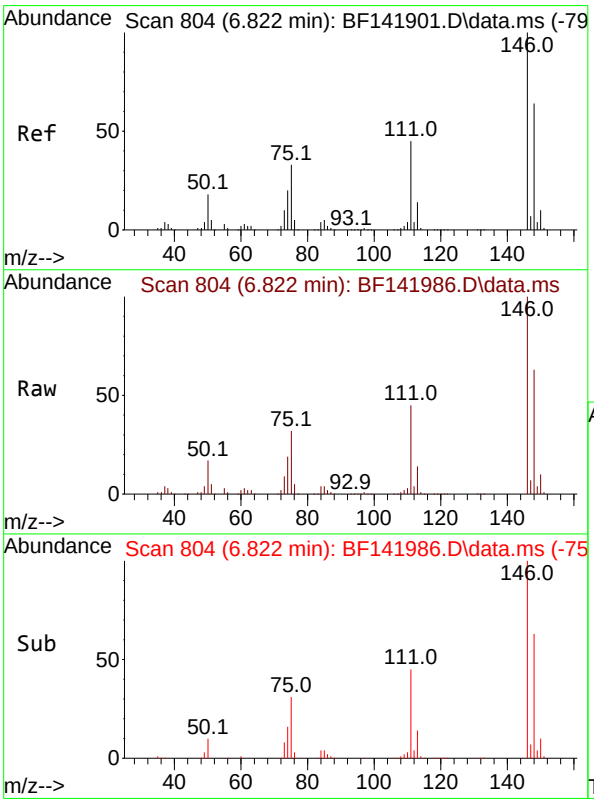
#11
bis(2-Chloroethyl)ether
Concen: 35.574 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 429686

Ion	Ratio	Lower	Upper
93	100		
63	72.7	53.0	93.0
95	33.0	12.9	52.9

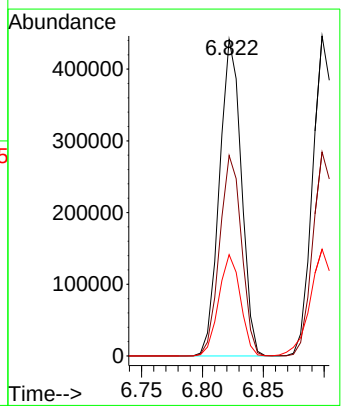


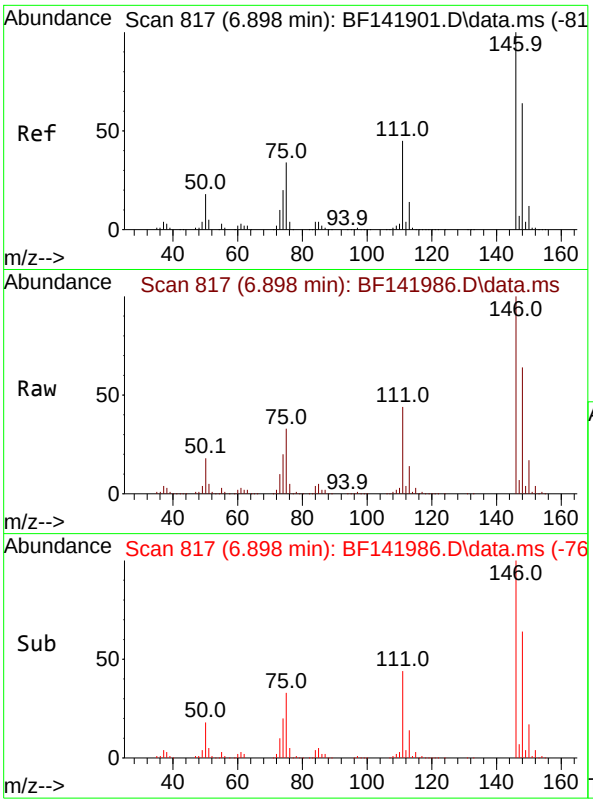


#12
1,3-Dichlorobenzene
Concen: 38.492 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:146 Resp: 553496

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.3	76.9
75	32.0	26.6	40.0



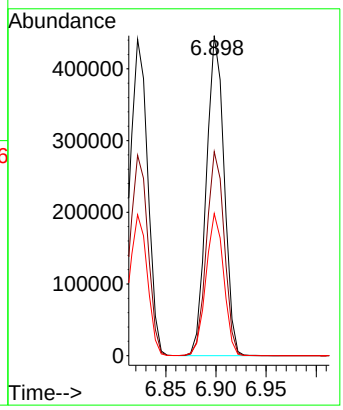


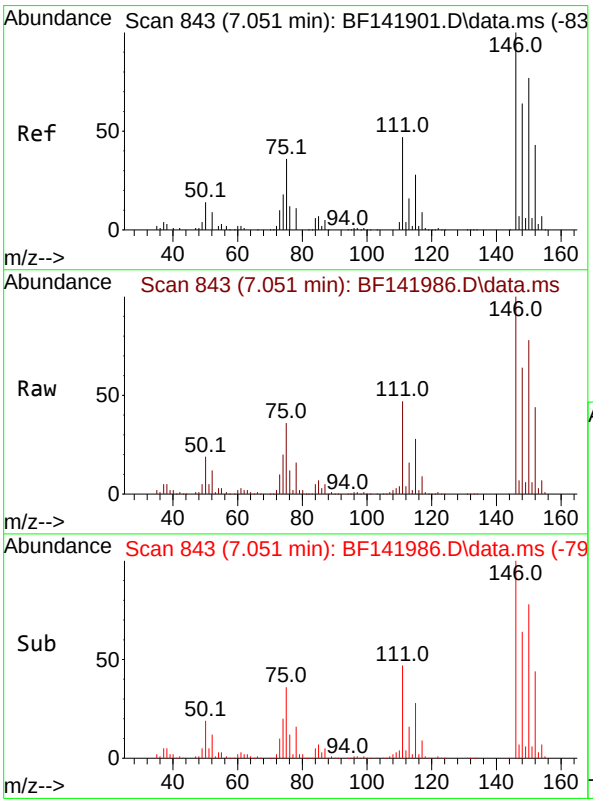
#13
1,4-Dichlorobenzene
Concen: 37.914 ng
RT: 6.898 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 551604

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.0	76.6
111	44.4	35.7	53.5

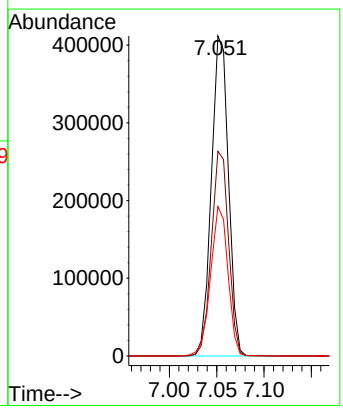


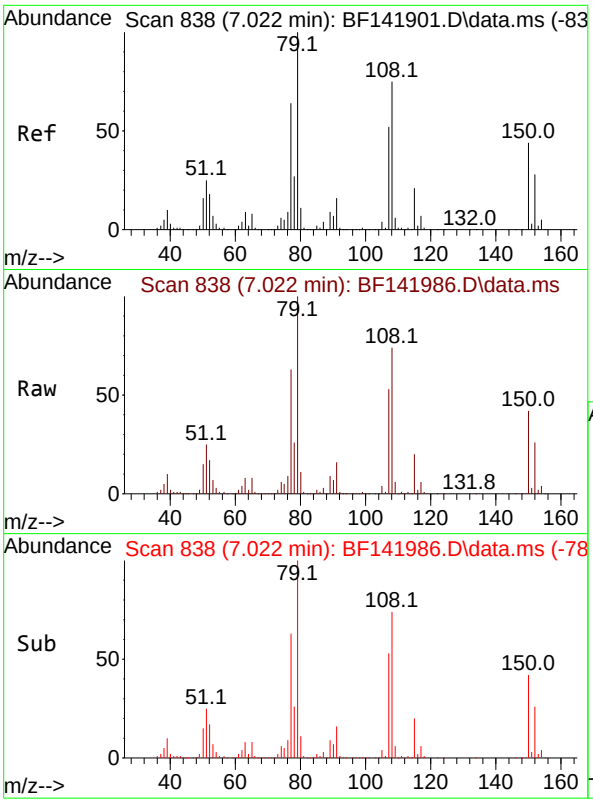


#14
1,2-Dichlorobenzene
Concen: 37.716 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:146 Resp: 516845

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.8	76.2
111	46.7	38.0	57.0



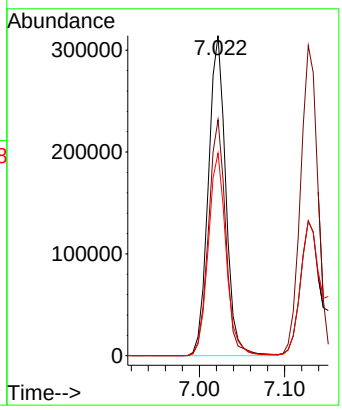


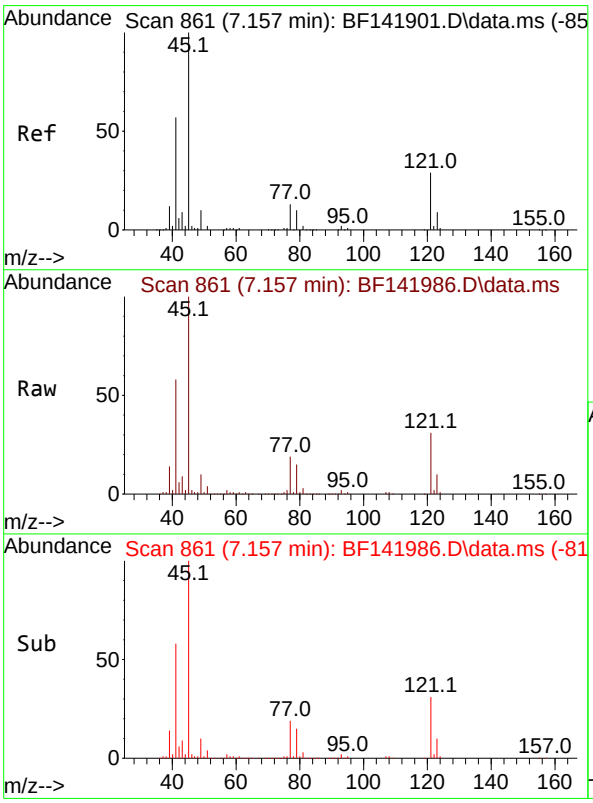
#15
Benzyl Alcohol
Concen: 36.030 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 445385

Ion	Ratio	Lower	Upper
79	100		
108	73.8	59.7	89.5
77	63.3	51.0	76.6

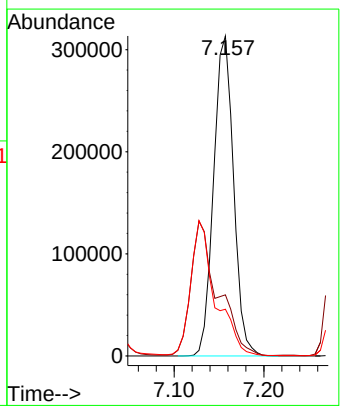


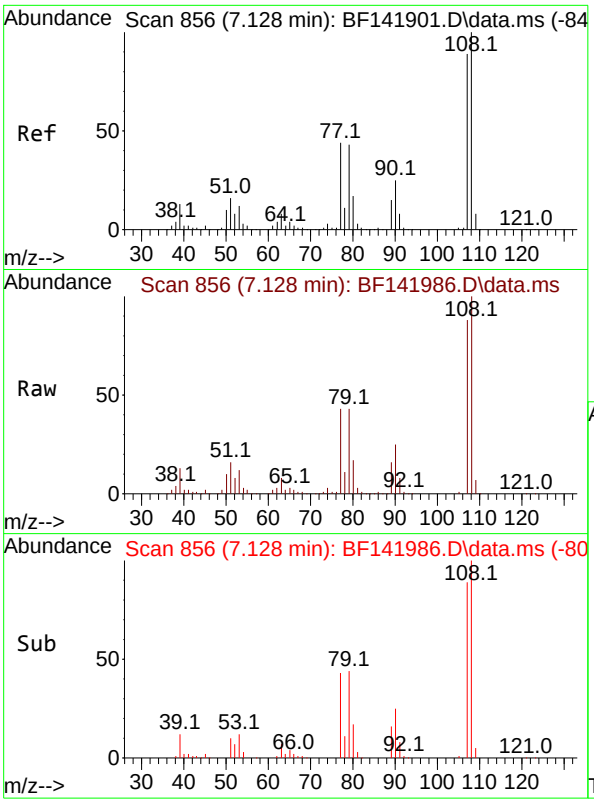


#16
2,2'-oxybis(1-Chloropropane)
Concen: 33.122 ng
RT: 7.157 min Scan# 861
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion: 45 Resp: 482996

Ion	Ratio	Lower	Upper
45	100		
77	19.1	0.0	37.8
79	14.6	0.0	34.2



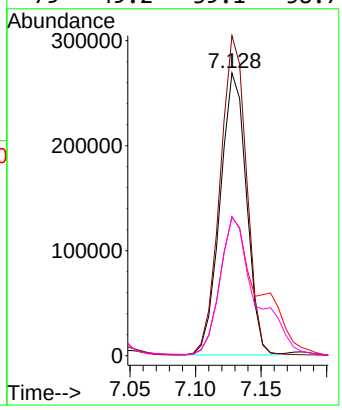


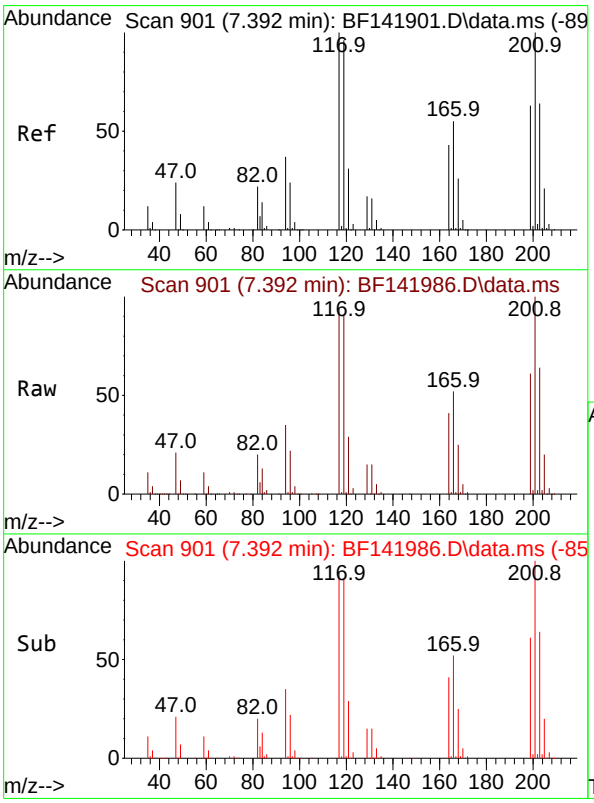
#17
2-Methylphenol
Concen: 35.394 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 374824

Ion	Ratio	Lower	Upper
107	100		
108	113.2	90.2	135.2
77	49.0	39.6	59.4
79	49.2	39.1	58.7

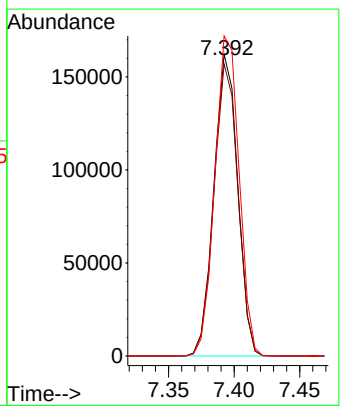


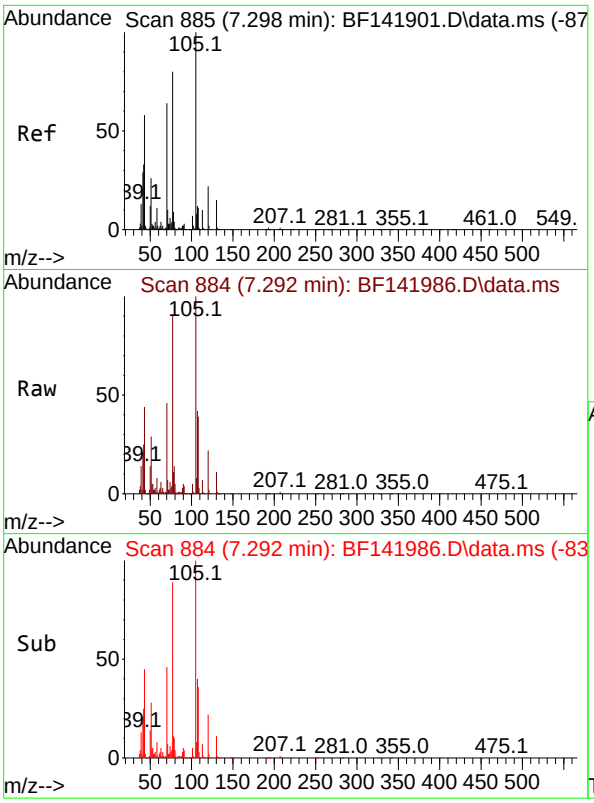


#18
Hexachloroethane
Concen: 37.553 ng
RT: 7.392 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:117 Resp: 204881

Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.9	115.3
201	106.0	79.9	119.9



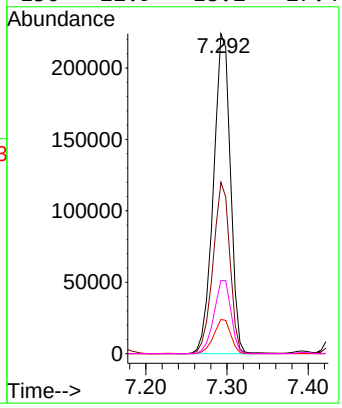


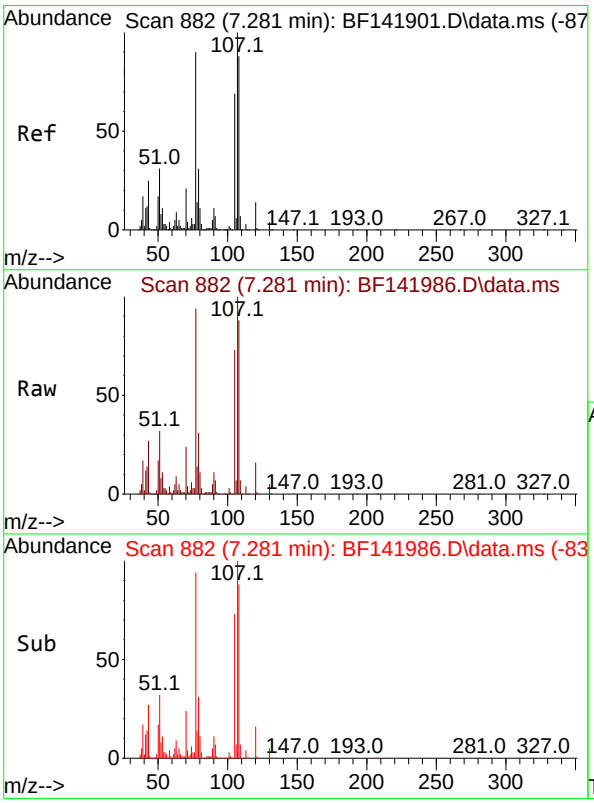
#19
n-Nitroso-di-n-propylamine
Concen: 33.192 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 326111

Ion	Ratio	Lower	Upper
70	100		
42	53.6	41.4	62.0
101	10.7	8.2	12.2
130	22.9	18.2	27.4

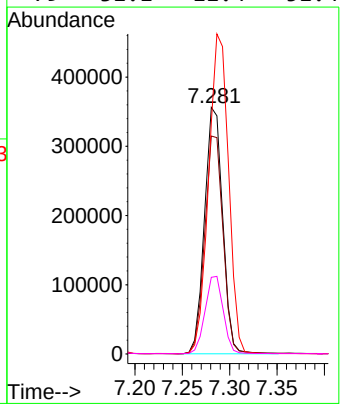


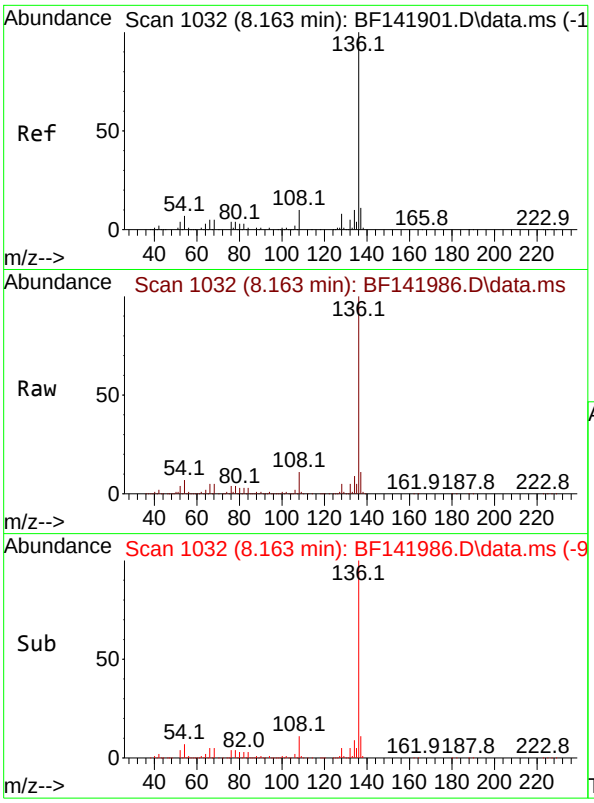


#20
3+4-Methylphenols
Concen: 34.870 ng
RT: 7.281 min Scan# 882
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:107 Resp: 473000

Ion	Ratio	Lower	Upper
107	100		
108	88.4	68.4	108.4
77	93.8	69.7	109.7
79	31.1	11.4	51.4



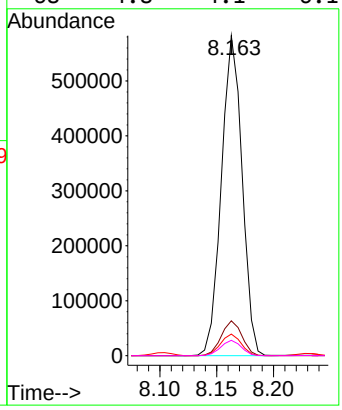


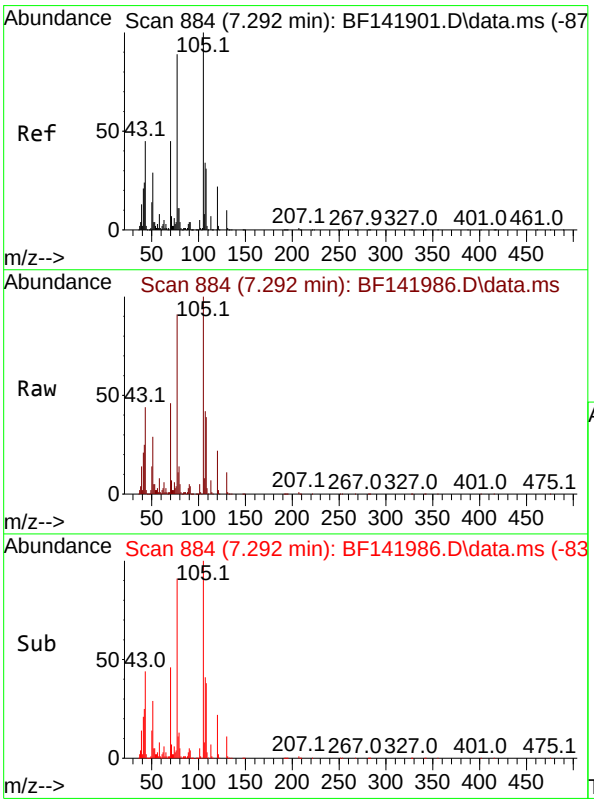
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 738787

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	6.7	5.8	8.8
68	4.8	4.1	6.1

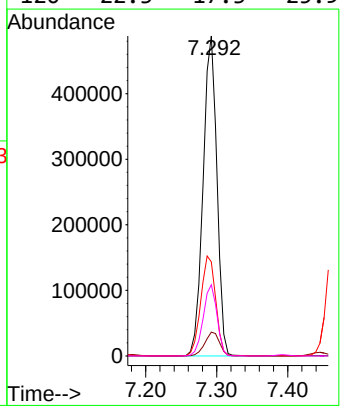


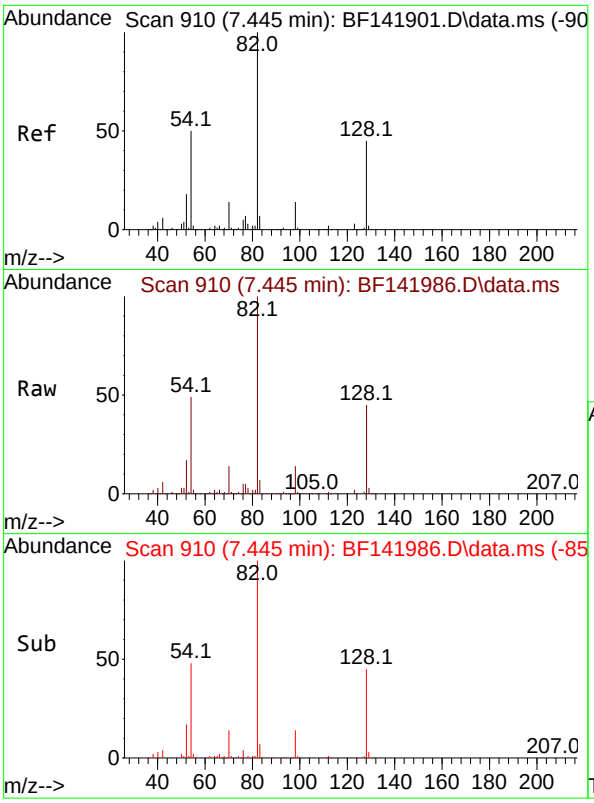


#22
Acetophenone
Concen: 37.418 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:105 Resp: 662001

Ion	Ratio	Lower	Upper
105	100		
71	7.5	5.8	8.8
51	29.4	23.4	35.0
120	22.3	17.3	25.9



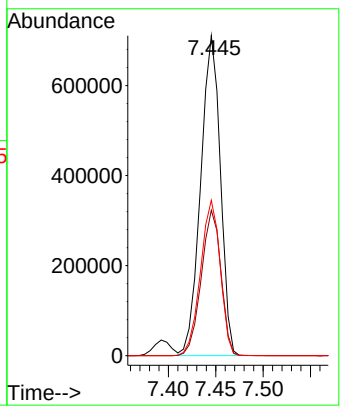


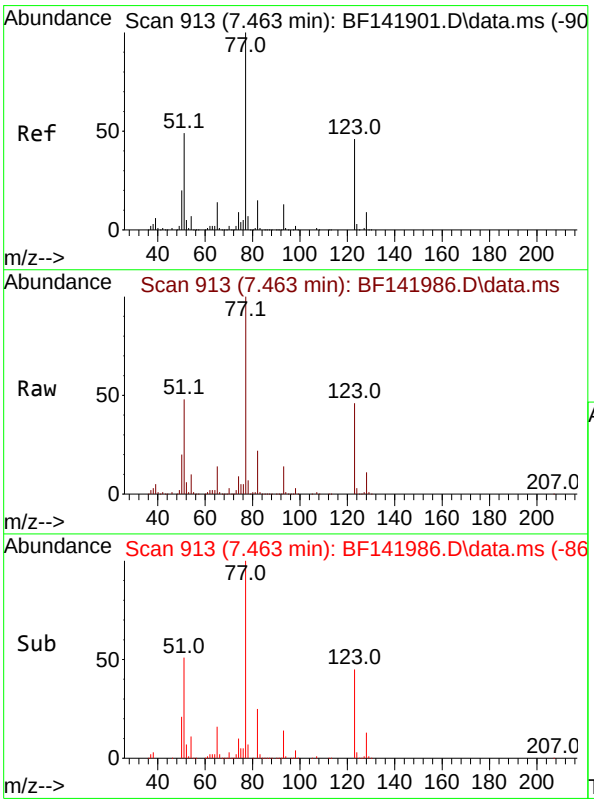
#23
Nitrobenzene-d5
Concen: 78.120 ng
RT: 7.445 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1025549

Ion	Ratio	Lower	Upper
82	100		
128	45.5	36.0	54.0
54	48.6	39.6	59.4

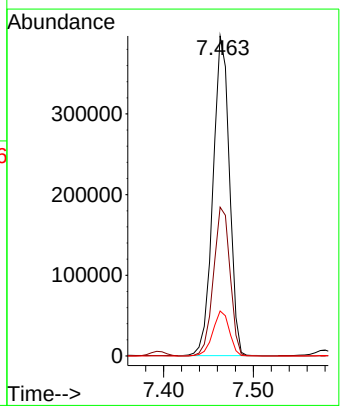


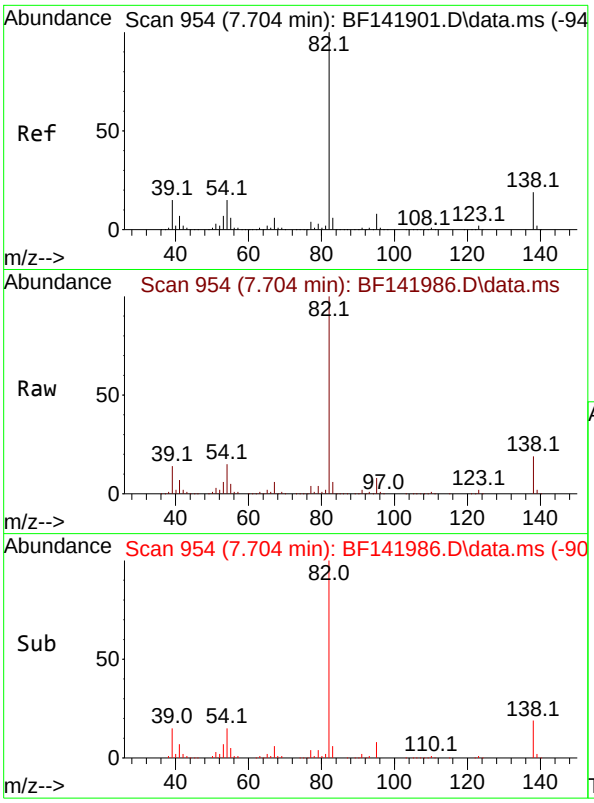


#24
Nitrobenzene
Concen: 38.639 ng
RT: 7.463 min Scan# 913
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion: 77 Resp: 504274

Ion	Ratio	Lower	Upper
77	100		
123	46.5	37.0	55.4
65	14.0	11.3	16.9



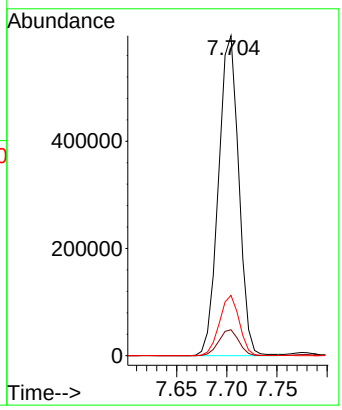


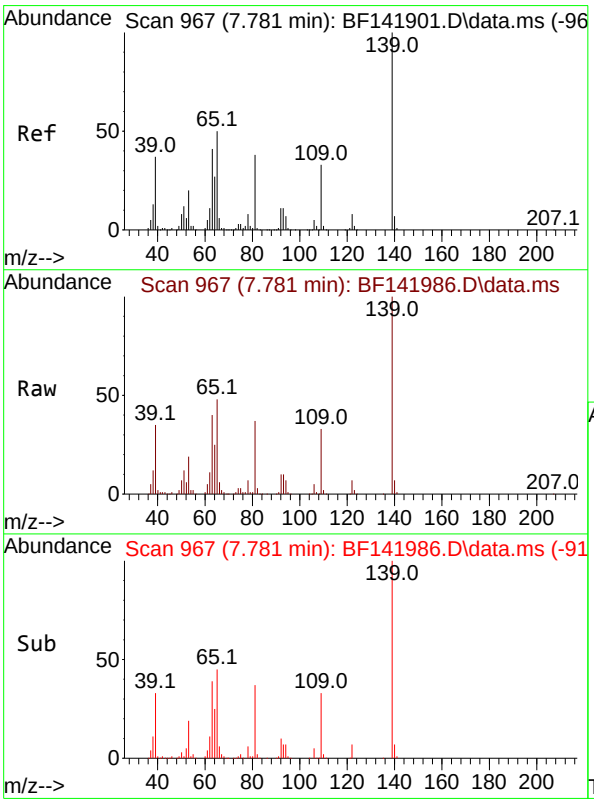
#25
Isophorone
Concen: 36.108 ng
RT: 7.704 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 837909

Ion	Ratio	Lower	Upper
82	100		
95	8.1	6.4	9.6
138	18.8	14.9	22.3

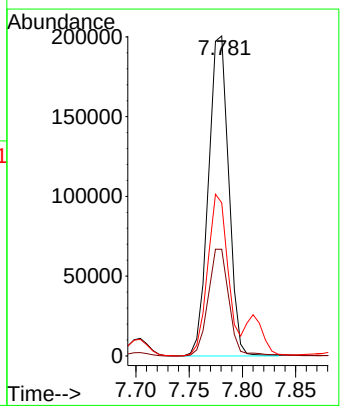


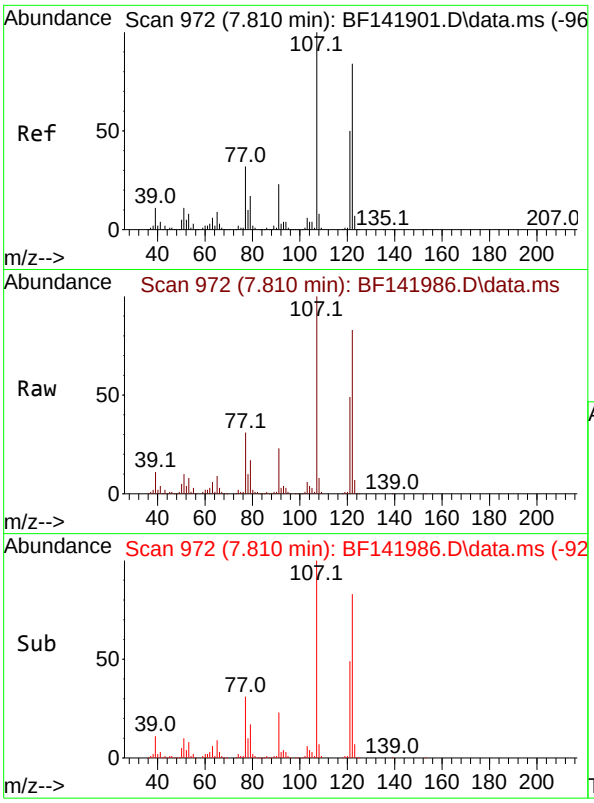


#26
2-Nitrophenol
Concen: 41.405 ng
RT: 7.781 min Scan# 967
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:139 Resp: 265215

Ion	Ratio	Lower	Upper
139	100		
109	33.3	26.5	39.7
65	47.8	40.3	60.5



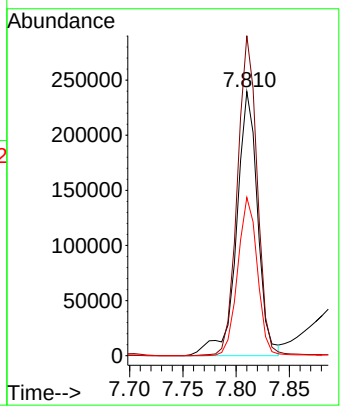


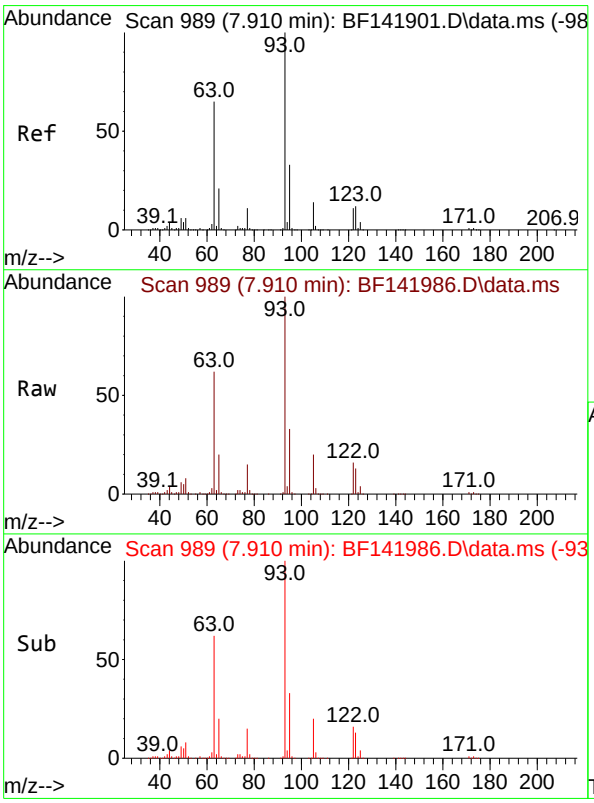
#27
2,4-Dimethylphenol
Concen: 37.506 ng
RT: 7.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 330795

Ion	Ratio	Lower	Upper
122	100		
107	121.1	94.8	142.2
121	59.9	47.8	71.6

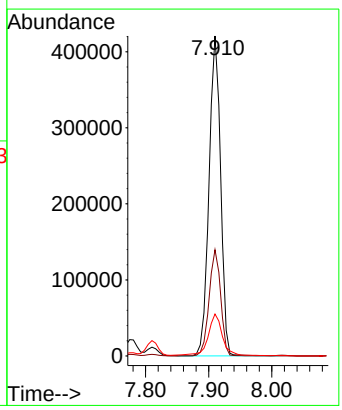


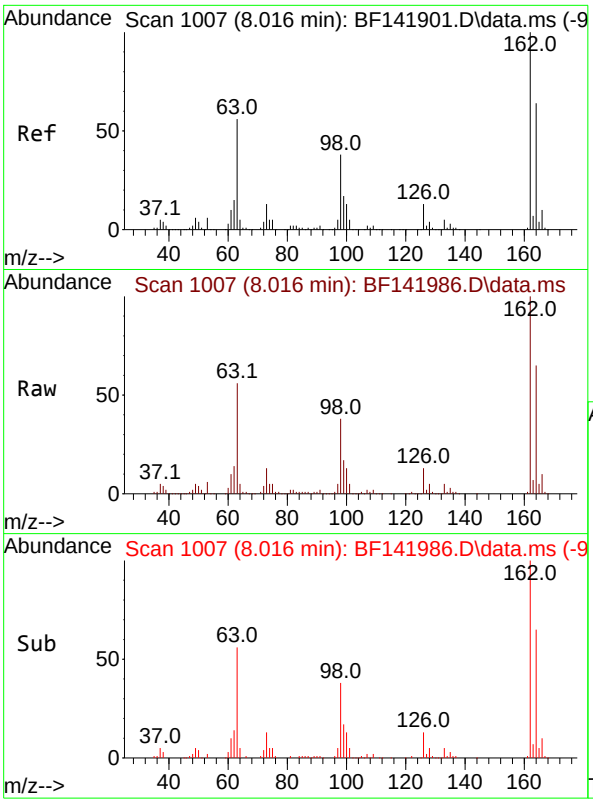


#28
bis(2-Chloroethoxy)methane
Concen: 36.710 ng
RT: 7.910 min Scan# 989
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion: 93 Resp: 534309

Ion	Ratio	Lower	Upper
93	100		
95	33.2	26.6	40.0
123	13.1	10.2	15.4



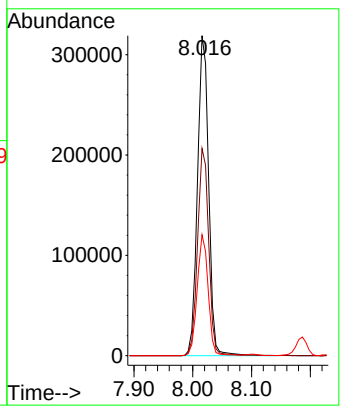


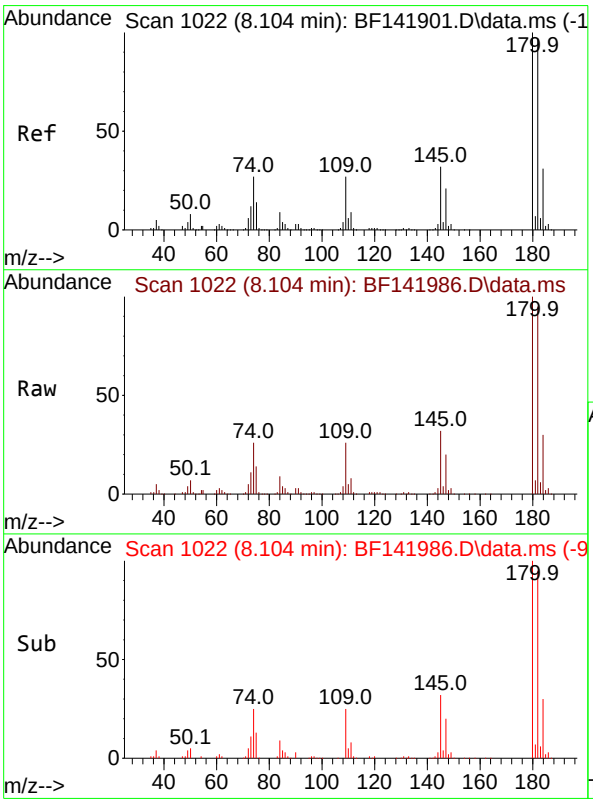
#29
2,4-Dichlorophenol
Concen: 38.399 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 420375

Ion	Ratio	Lower	Upper
162	100		
164	64.8	43.8	83.8
98	37.8	18.1	58.1

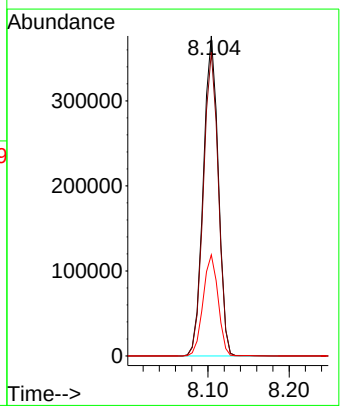


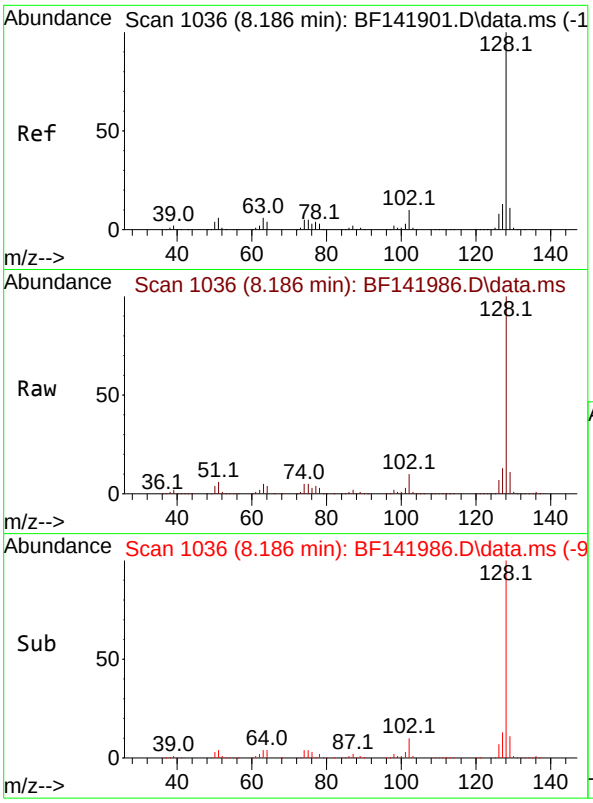


#30
1,2,4-Trichlorobenzene
Concen: 39.805 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:180 Resp: 480233

Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.5	116.3
145	31.6	25.8	38.6



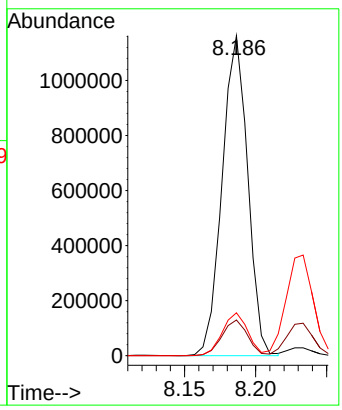


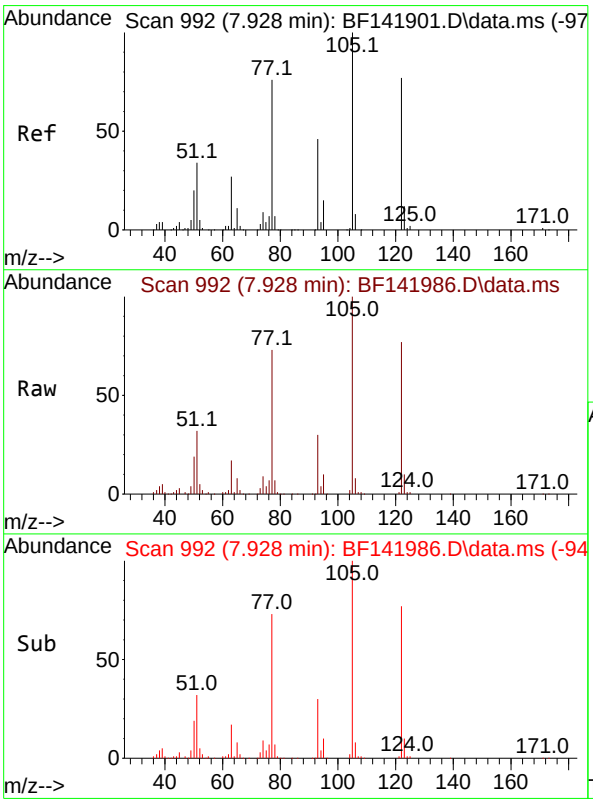
#31
Naphthalene
Concen: 38.325 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1454452

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.4	10.8	16.2

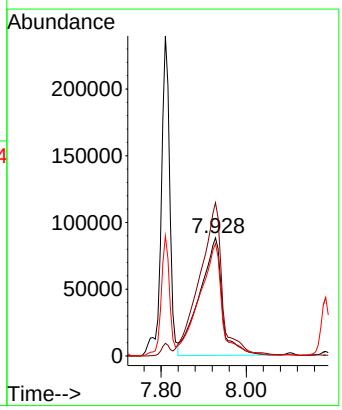


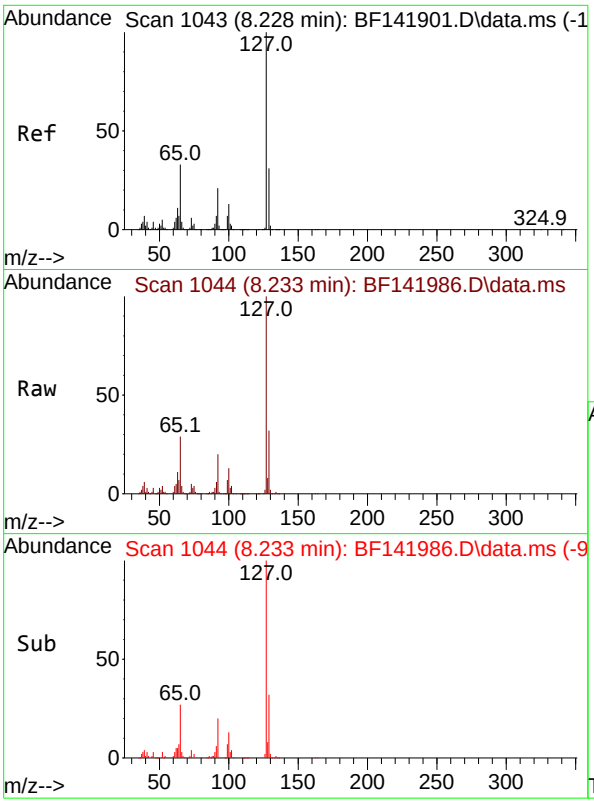


#32
Benzoic acid
Concen: 41.895 ng
RT: 7.928 min Scan# 992
Delta R.T. -0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:122 Resp: 324807

Ion	Ratio	Lower	Upper
122	100		
105	129.8	107.9	147.9
77	95.1	79.0	119.0



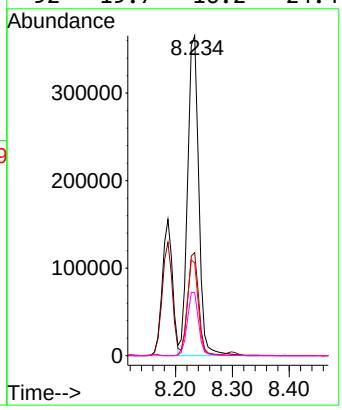


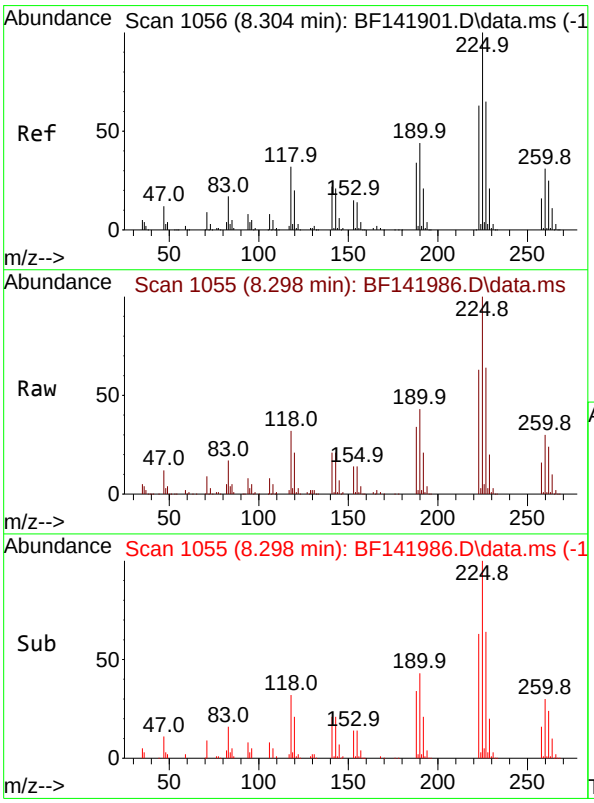
#33
4-Chloroaniline
Concen: 37.234 ng
RT: 8.233 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 498828

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.2	39.4
65	29.1	25.4	38.2
92	19.7	16.2	24.4

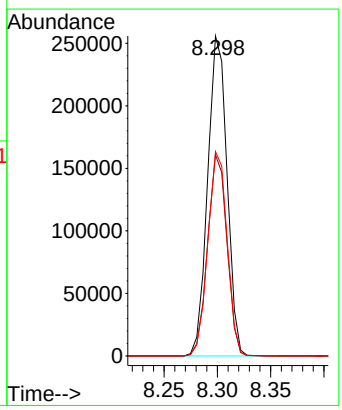


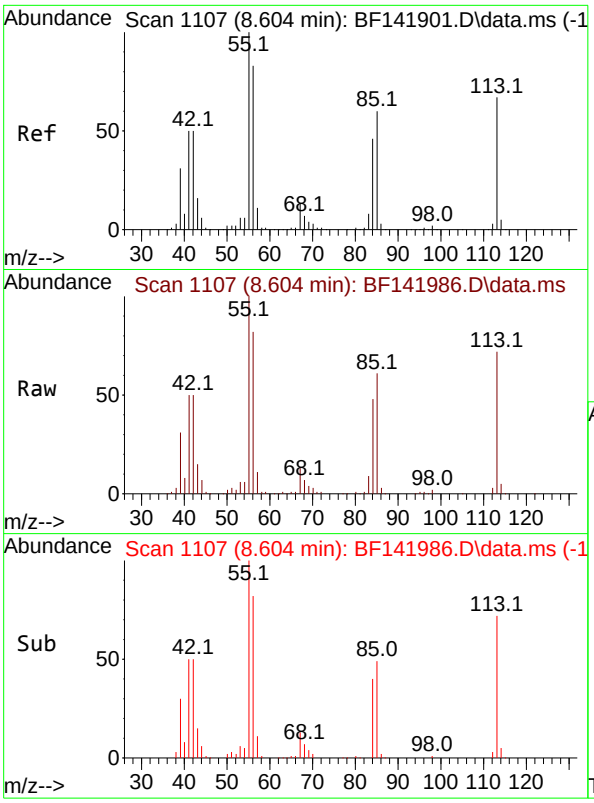


#34
Hexachlorobutadiene
Concen: 40.986 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:225 Resp: 322471

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.6	75.8
227	63.9	52.2	78.2



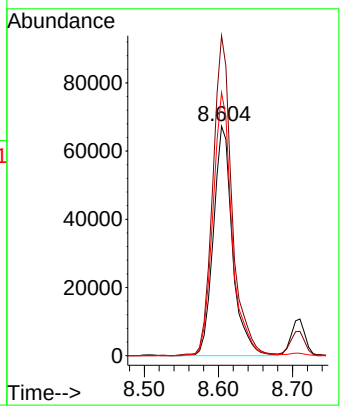


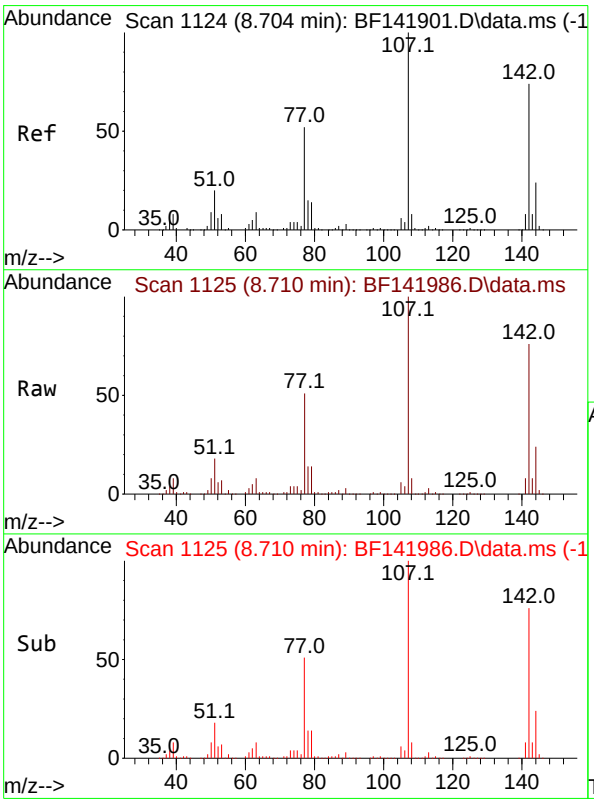
#35
Caprolactam
Concen: 36.061 ng
RT: 8.604 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 120360

Ion	Ratio	Lower	Upper
113	100		
55	139.5	129.6	169.6
56	114.7	104.0	144.0

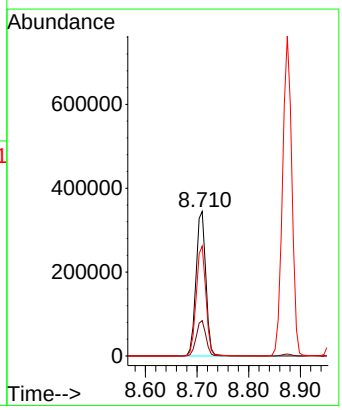


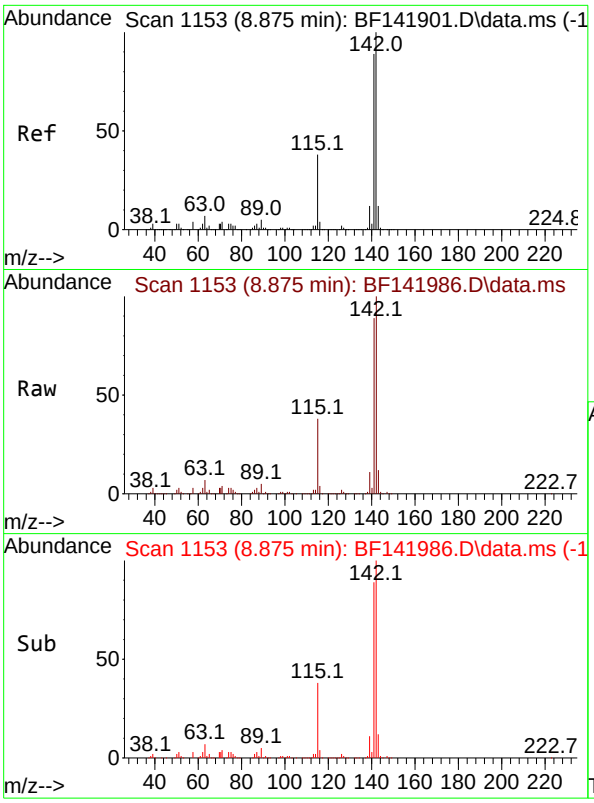


#36
4-Chloro-3-methylphenol
Concen: 37.150 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:107 Resp: 453675

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.0	28.6
142	76.0	59.2	88.8



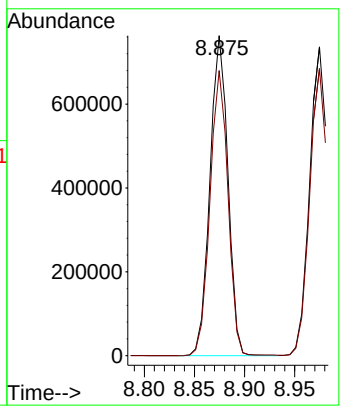


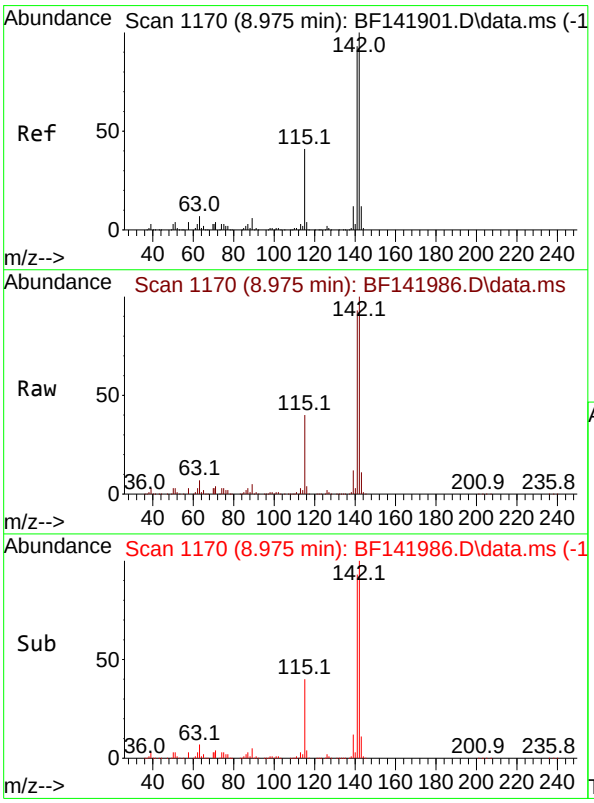
#37
2-Methylnaphthalene
Concen: 37.546 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 952409

Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.2	106.8

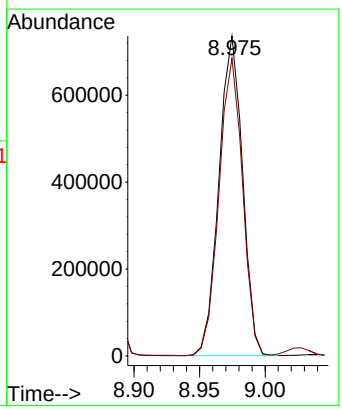


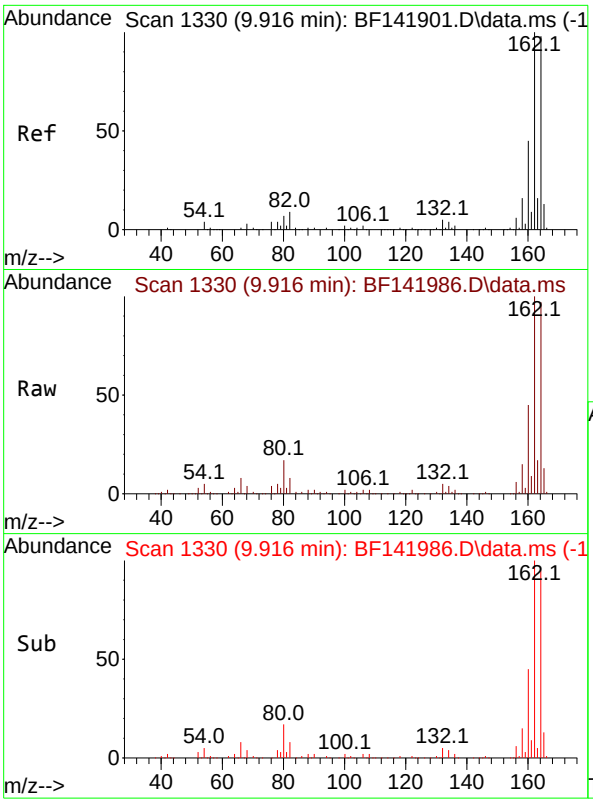


#38
1-Methylnaphthalene
Concen: 37.596 ng
RT: 8.975 min Scan# 1170
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:142 Resp: 920289

Ion	Ratio	Lower	Upper
142	100		
141	93.0	74.2	111.4



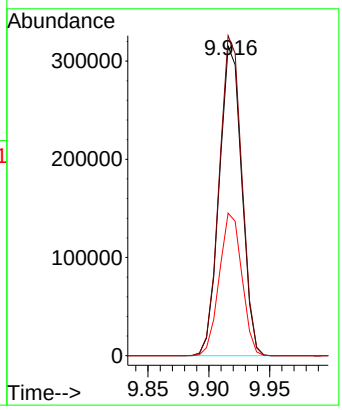


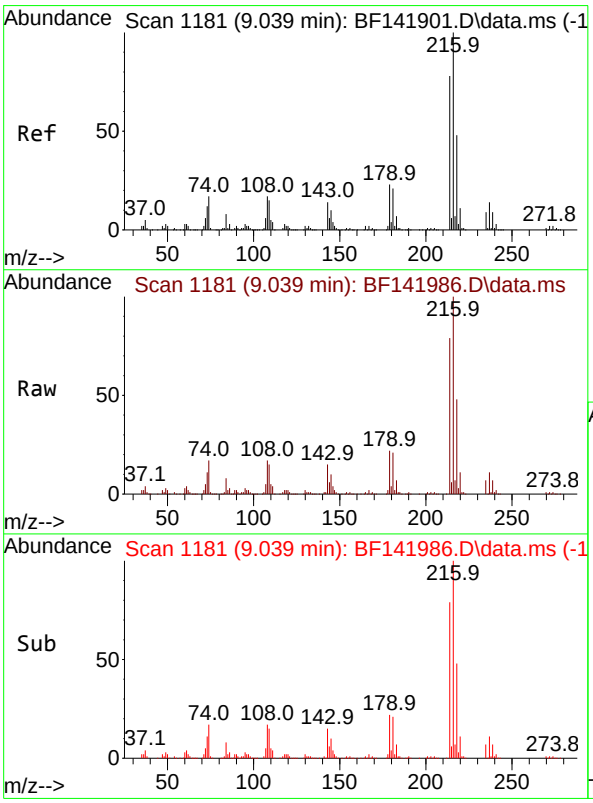
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 404779

Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.8	122.6
160	46.1	36.7	55.1

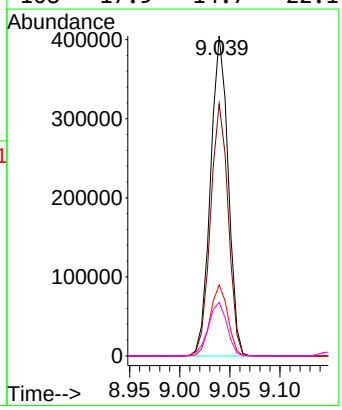


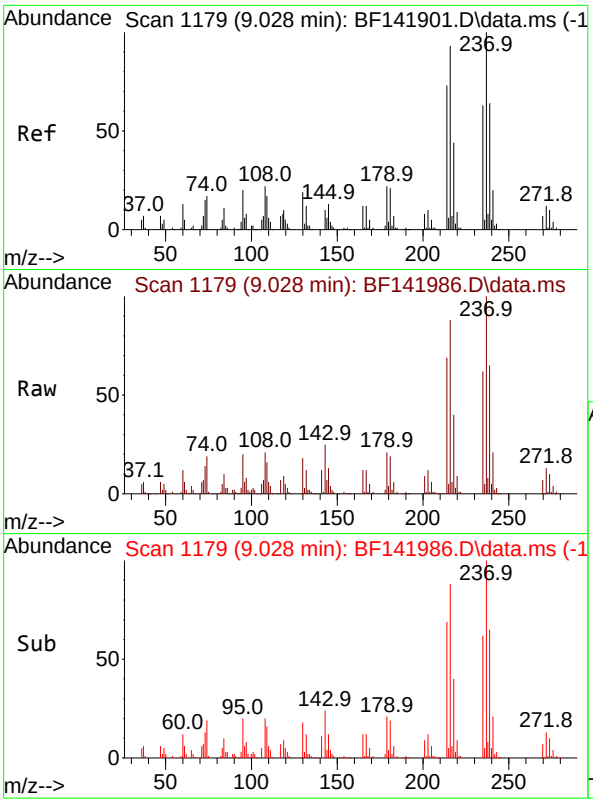


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.267 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:216 Resp: 496252

Ion	Ratio	Lower	Upper
216	100		
214	78.7	61.9	92.9
179	22.1	18.1	27.1
108	17.9	14.7	22.1



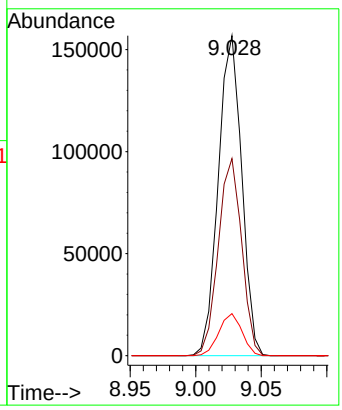


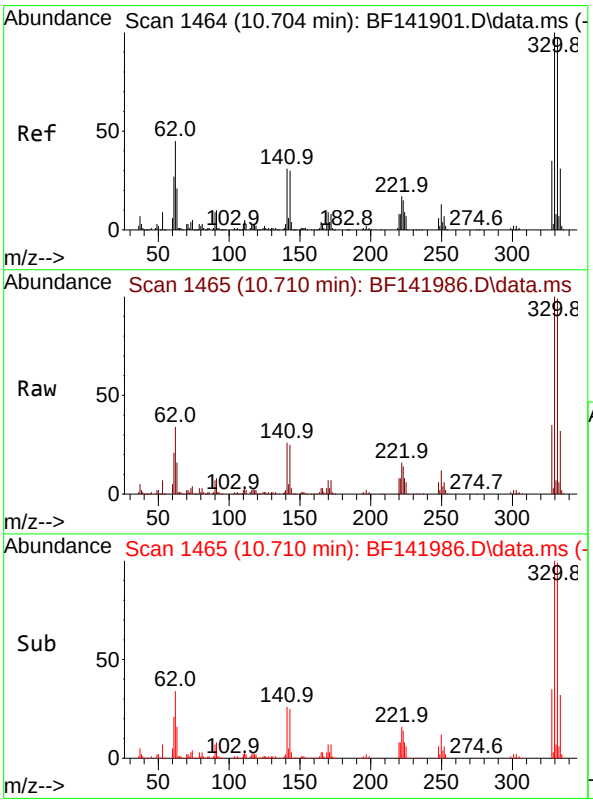
#41
Hexachlorocyclopentadiene
Concen: 40.332 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 194522

Ion	Ratio	Lower	Upper
237	100		
235	61.6	43.1	83.1
272	13.1	0.0	32.0

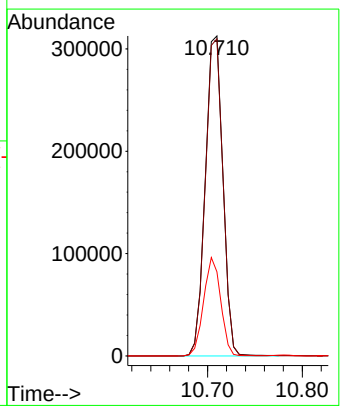


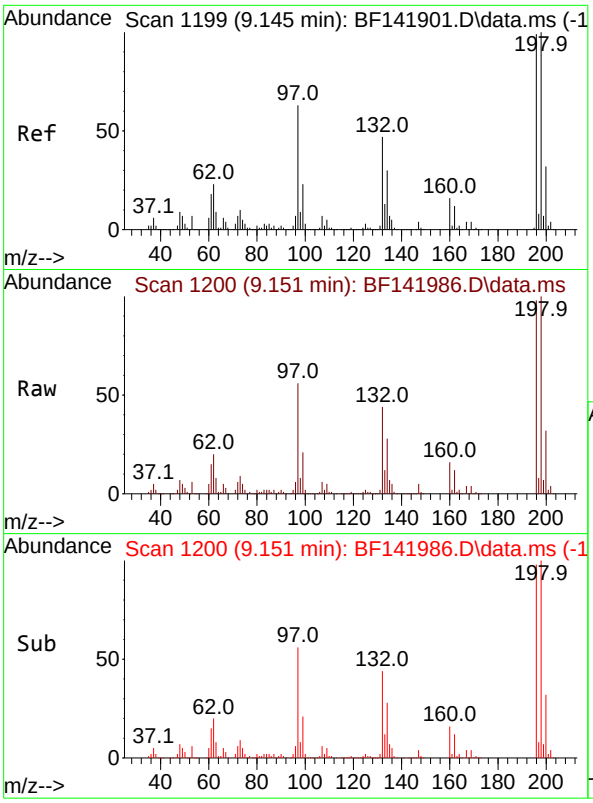


#42
2,4,6-Tribromophenol
Concen: 78.373 ng
RT: 10.710 min Scan# 1465
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:330 Resp: 402460

Ion	Ratio	Lower	Upper
330	100		
332	99.1	77.6	116.4
141	29.9	24.7	37.1



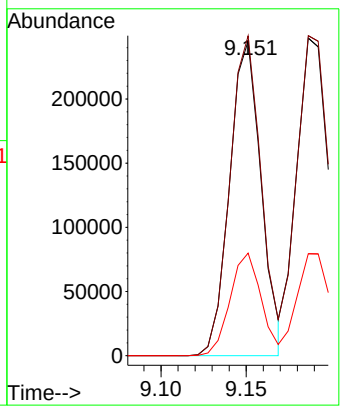


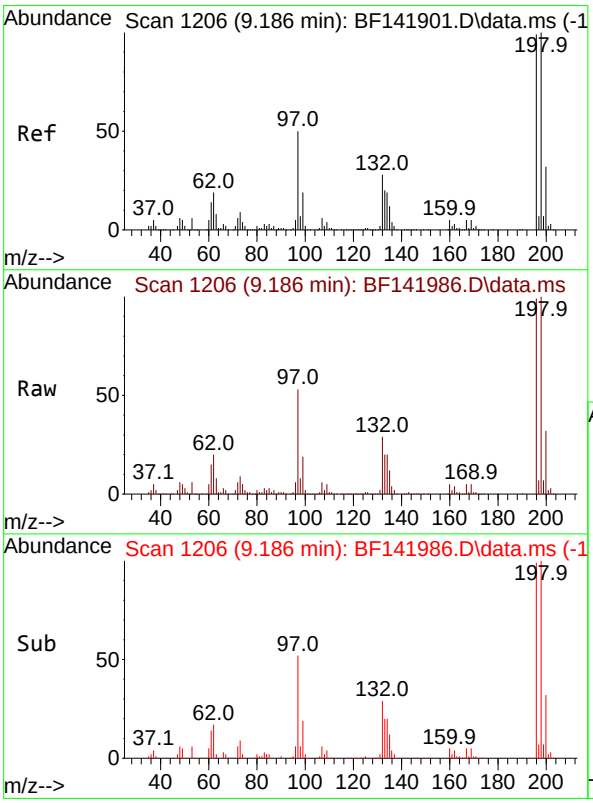
#43
2,4,6-Trichlorophenol
Concen: 39.167 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 315456

Ion	Ratio	Lower	Upper
196	100		
198	101.6	80.6	121.0
200	32.6	25.8	38.6

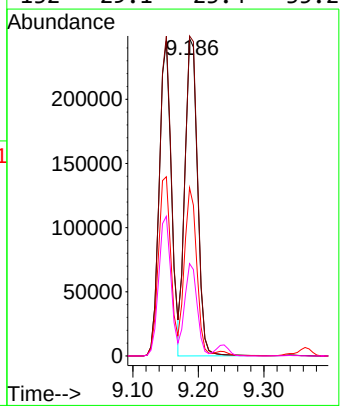


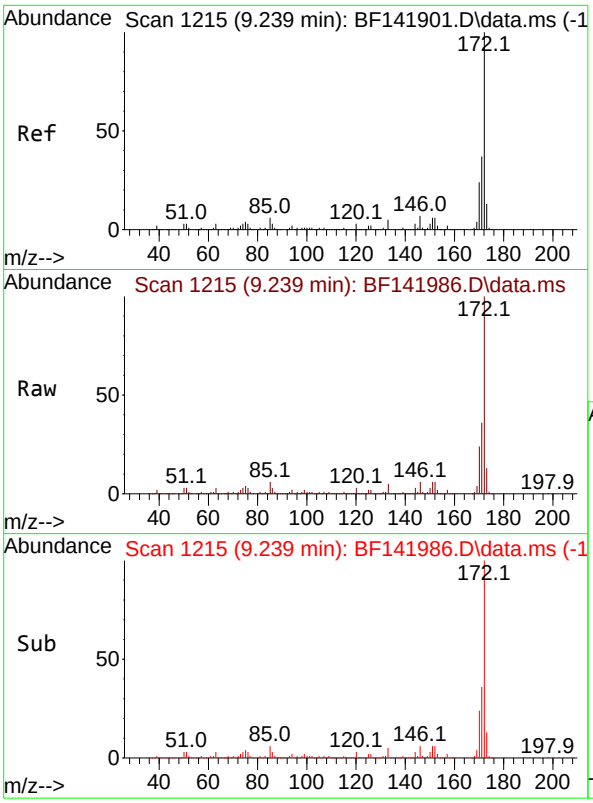


#44
2,4,5-Trichlorophenol
Concen: 40.458 ng
RT: 9.186 min Scan# 1206
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:196 Resp: 330026

Ion	Ratio	Lower	Upper
196	100		
198	100.7	80.7	121.1
97	53.0	42.1	63.1
132	29.1	23.4	35.2



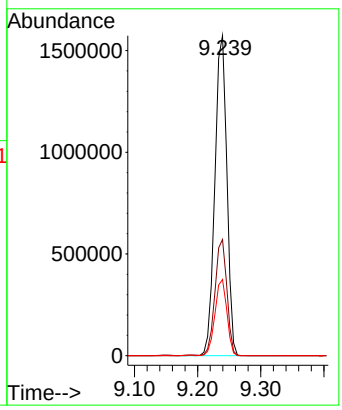


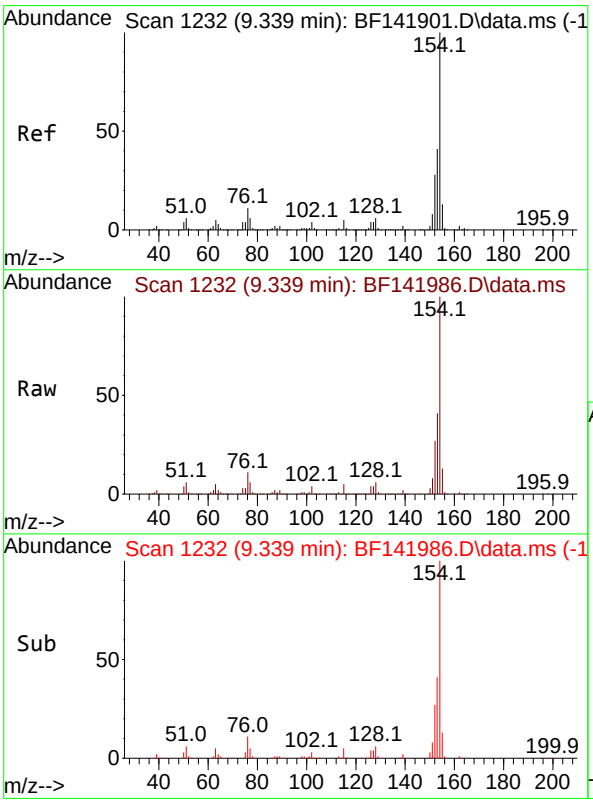
#45
2-Fluorobiphenyl
Concen: 77.707 ng
RT: 9.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 2068249

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.3	43.9
170	23.8	19.4	29.0

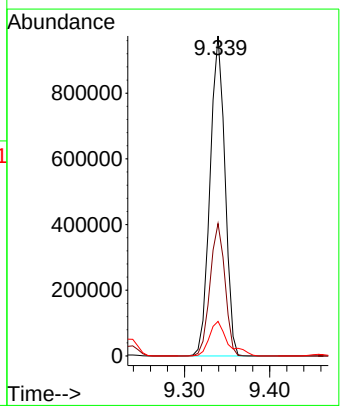


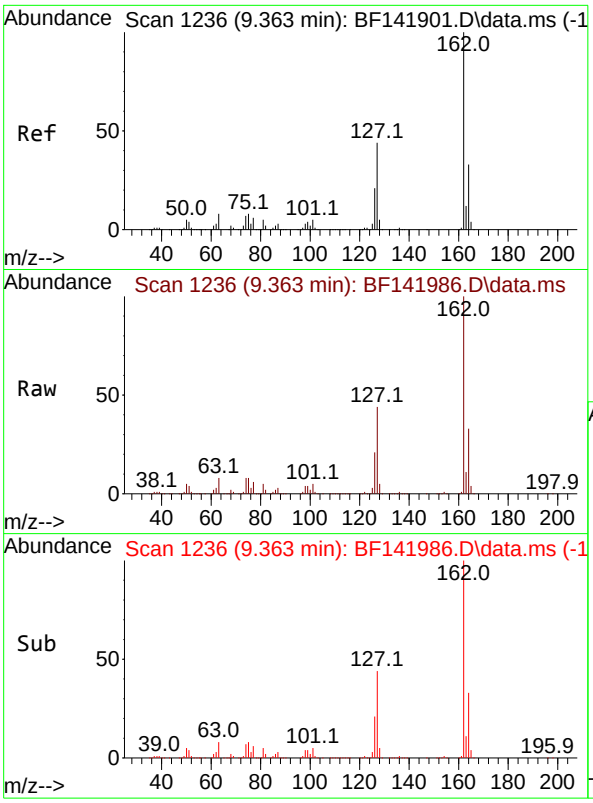


#46
1,1'-Biphenyl
Concen: 38.497 ng
RT: 9.339 min Scan# 1232
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:154 Resp: 1184016

Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.1	61.1
76	10.8	0.0	31.3



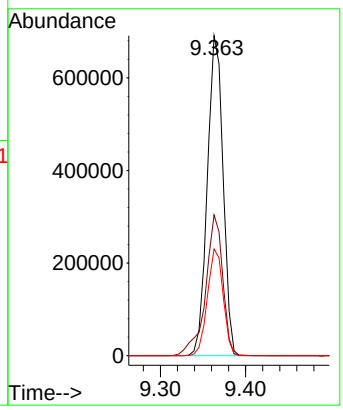


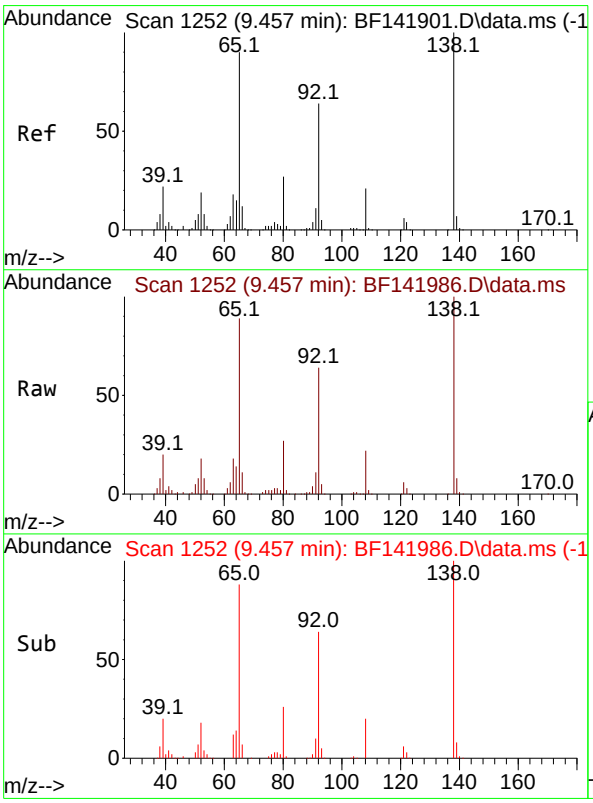
#47
2-Chloronaphthalene
Concen: 38.643 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 885839

Ion	Ratio	Lower	Upper
162	100		
127	44.0	35.5	53.3
164	33.4	26.6	40.0

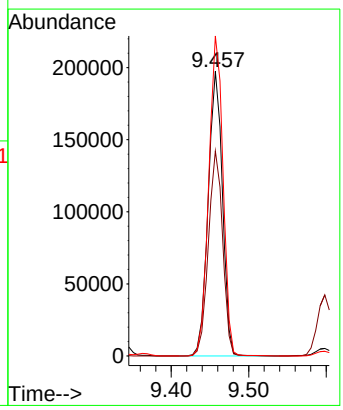


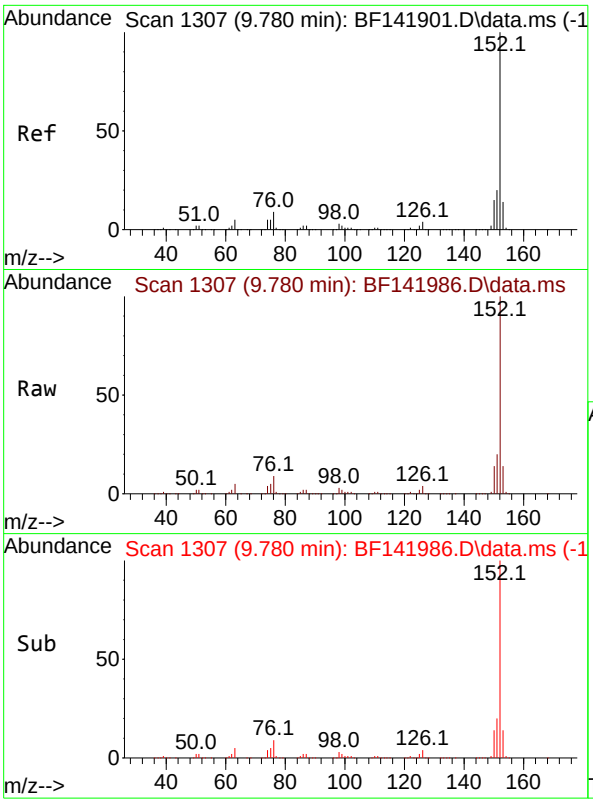


#48
2-Nitroaniline
Concen: 38.027 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion: 65 Resp: 252402

Ion	Ratio	Lower	Upper
65	100		
92	72.0	56.6	84.8
138	112.5	88.6	133.0



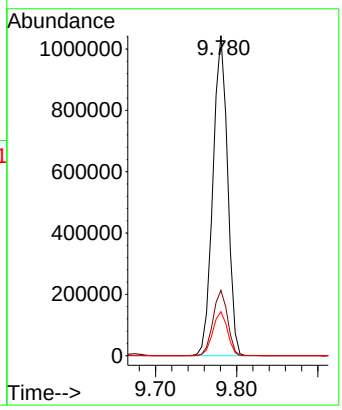


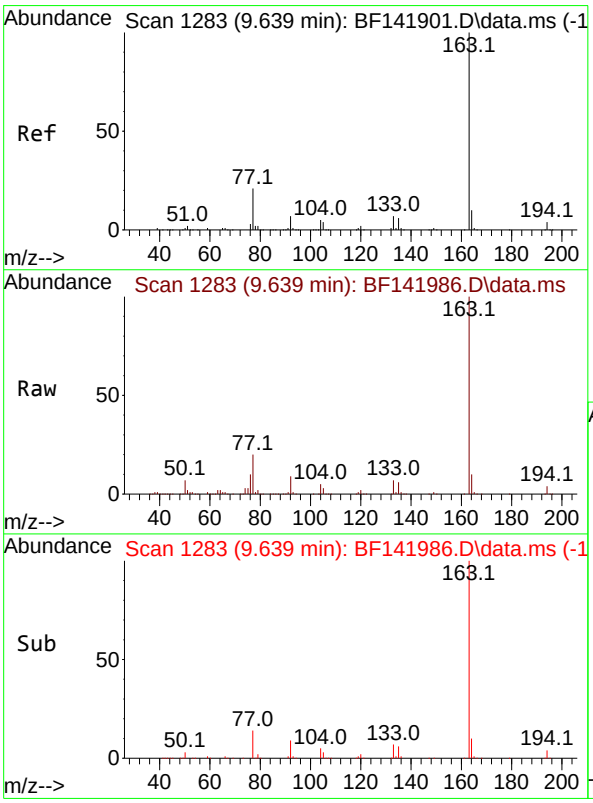
#49
Acenaphthylene
Concen: 38.522 ng
RT: 9.780 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 1310429

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	13.8	11.1	16.7

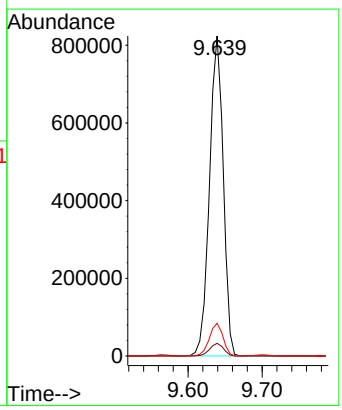


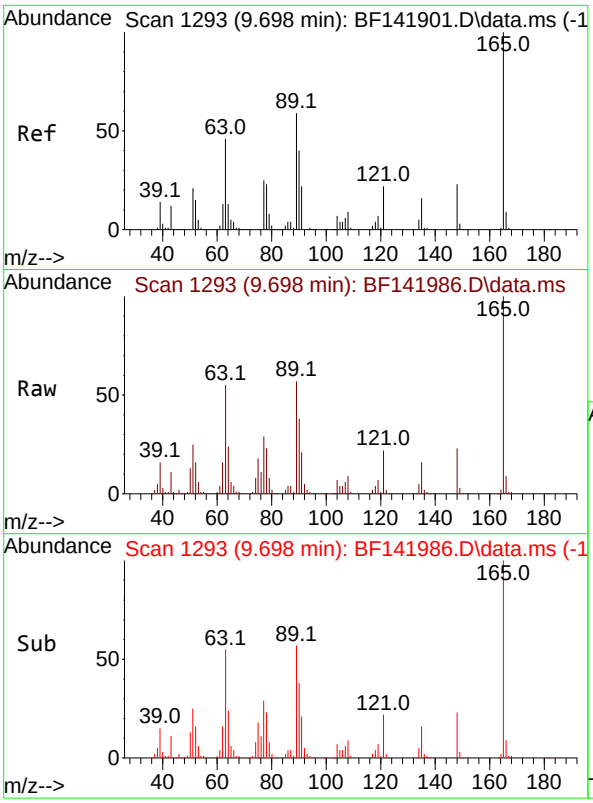


#50
Dimethylphthalate
Concen: 37.497 ng
RT: 9.639 min Scan# 1283
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:163 Resp: 1062885

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.2	8.2	12.4



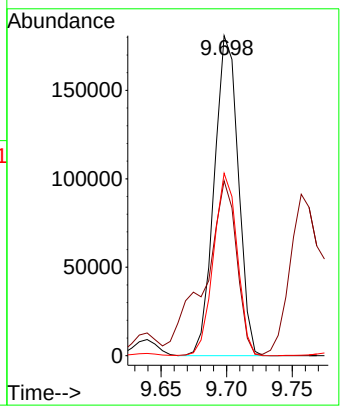


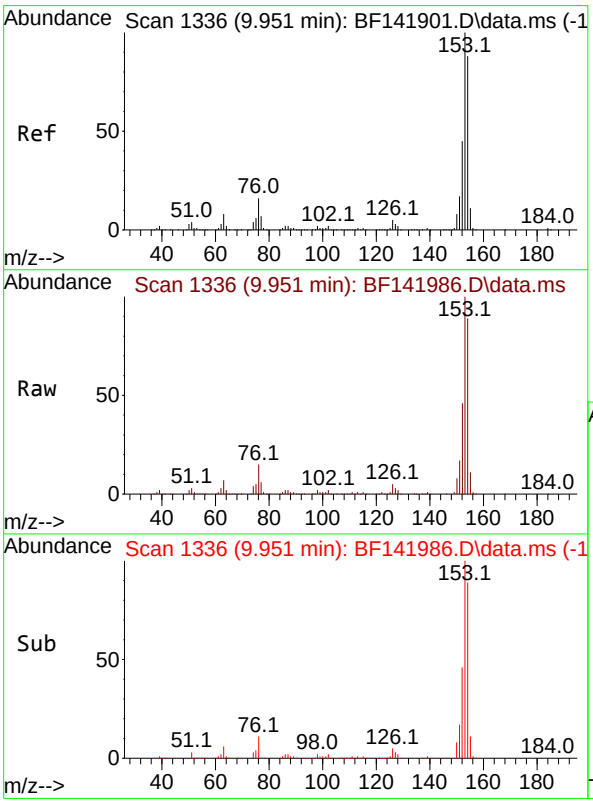
#51
2,6-Dinitrotoluene
Concen: 39.024 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 230313

Ion	Ratio	Lower	Upper
165	100		
63	54.6	47.0	70.4
89	57.0	47.4	71.2

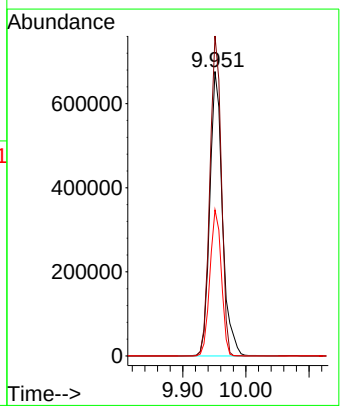


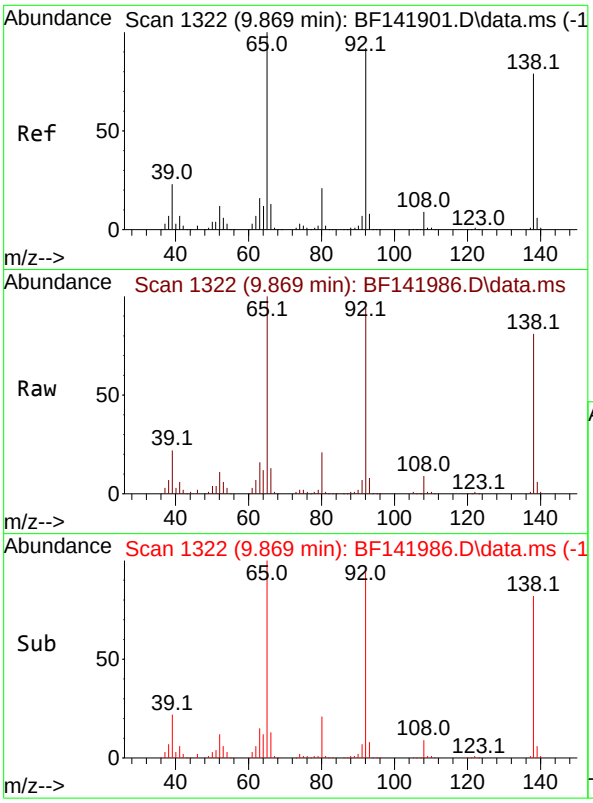


#52
Acenaphthene
Concen: 39.142 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:154 Resp: 935747

Ion	Ratio	Lower	Upper
154	100		
153	112.5	90.7	136.1
152	51.4	41.1	61.7



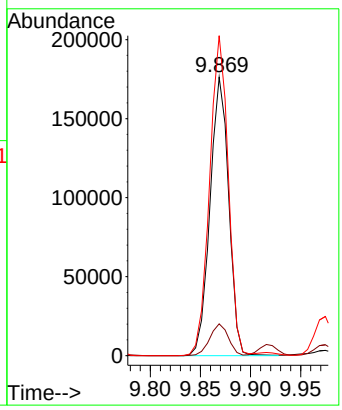


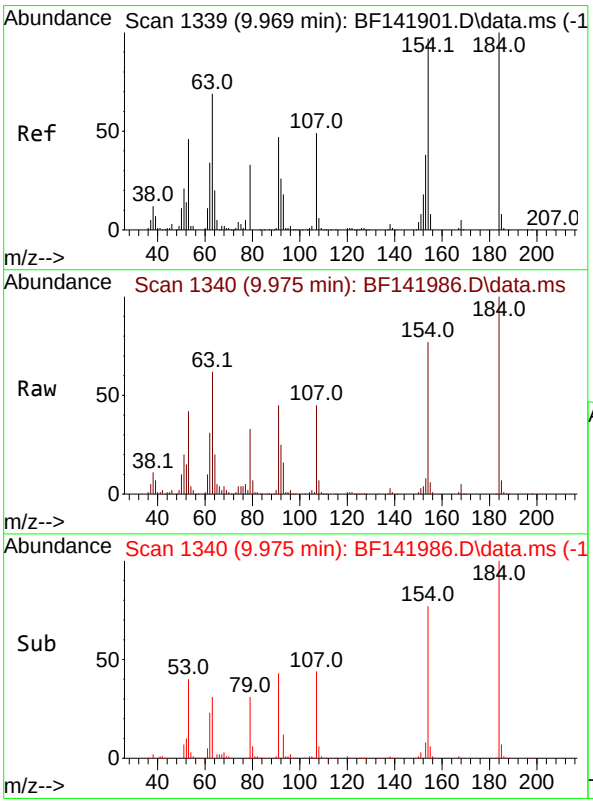
#53
3-Nitroaniline
Concen: 38.185 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 228599

Ion	Ratio	Lower	Upper
138	100		
108	11.4	9.3	13.9
92	114.9	93.5	140.3

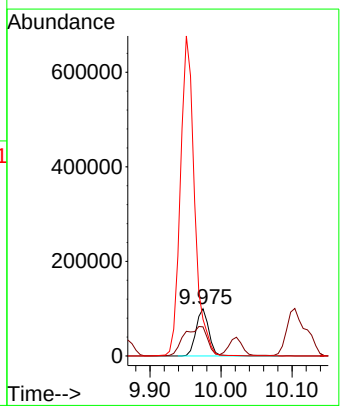


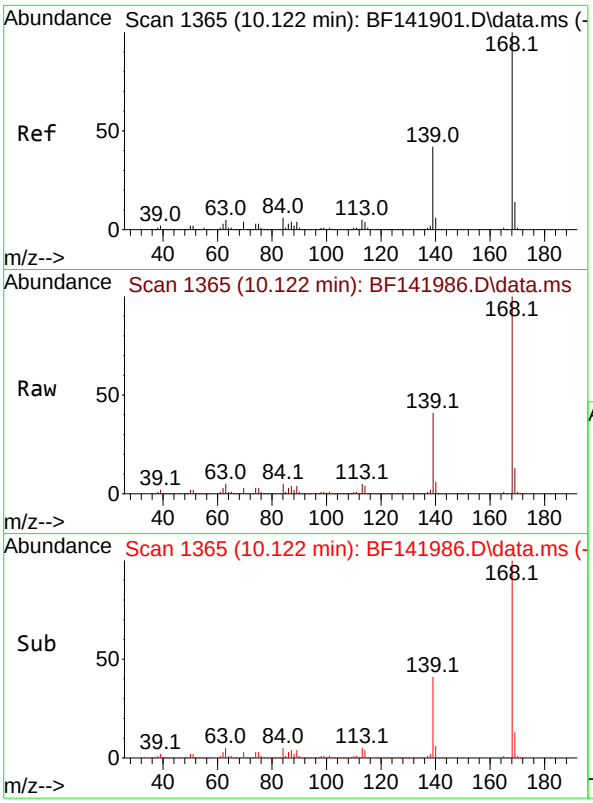


#54
2,4-Dinitrophenol
Concen: 41.015 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:184 Resp: 125830

Ion	Ratio	Lower	Upper
184	100		
63	61.7	60.2	90.4
154	77.4	132.9	199.3#



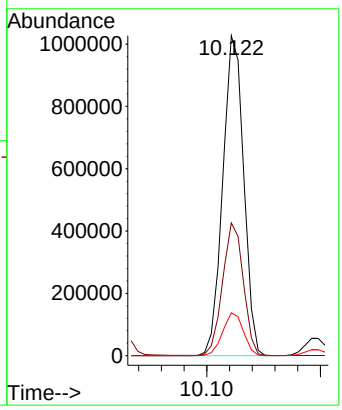


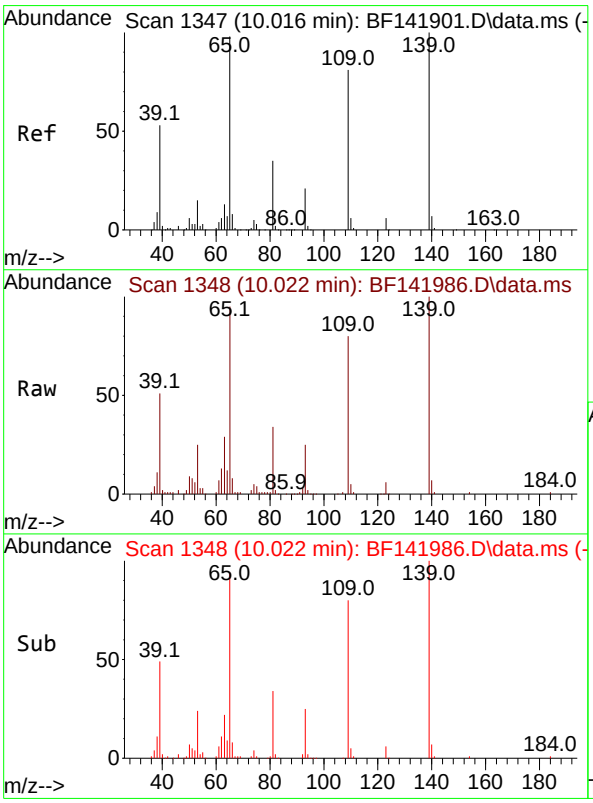
#55
Dibenzofuran
Concen: 38.386 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 1311220

Ion	Ratio	Lower	Upper
168	100		
139	41.5	33.9	50.9
169	13.4	11.0	16.4

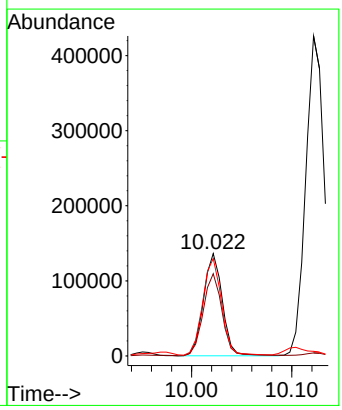


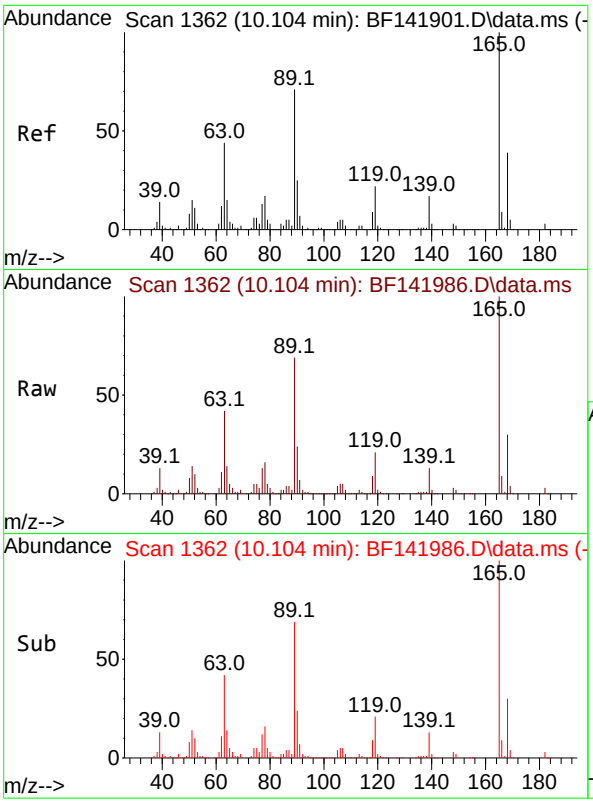


#56
4-Nitrophenol
Concen: 39.520 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:139 Resp: 178419

Ion	Ratio	Lower	Upper
139	100		
109	80.2	61.6	101.6
65	95.2	79.4	119.4



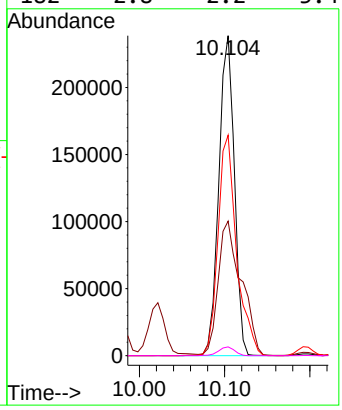


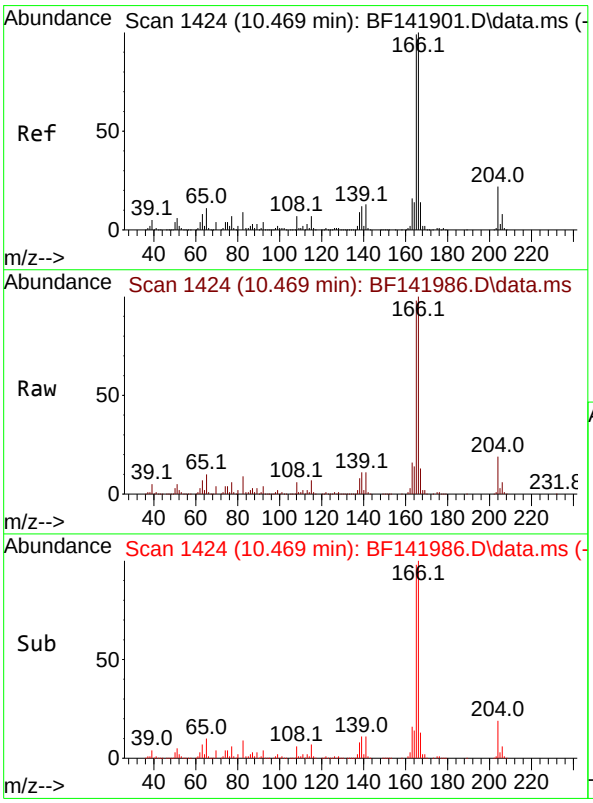
#57
2,4-Dinitrotoluene
Concen: 39.151 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 301789

Ion	Ratio	Lower	Upper
165	100		
63	42.1	35.4	53.2
89	68.9	56.6	84.8
182	2.8	2.2	3.4

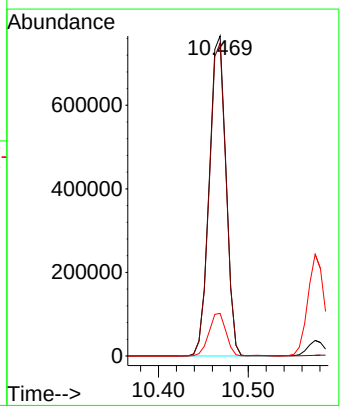


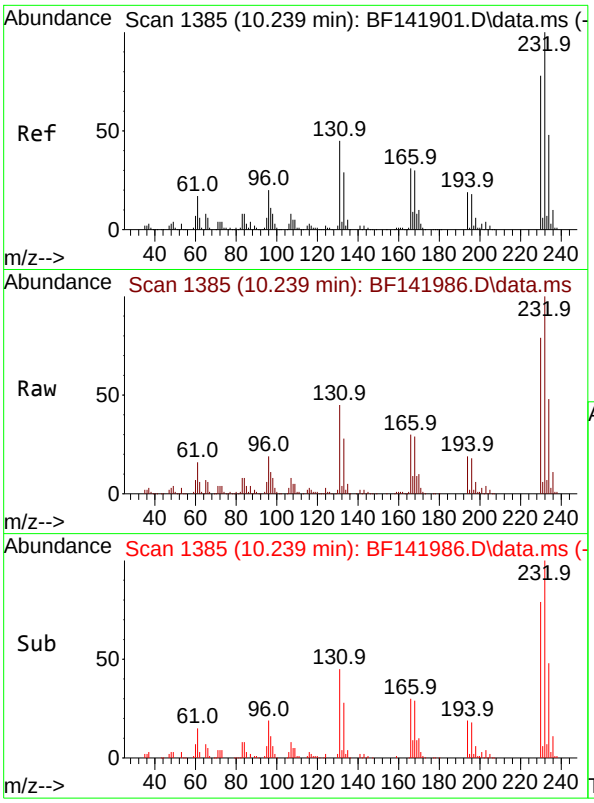


#58
Fluorene
Concen: 37.669 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:166 Resp: 992294

Ion	Ratio	Lower	Upper
166	100		
165	97.8	79.0	118.4
167	13.3	11.0	16.4



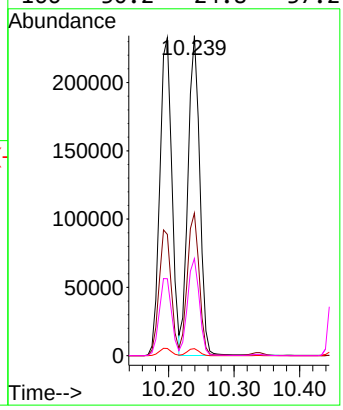


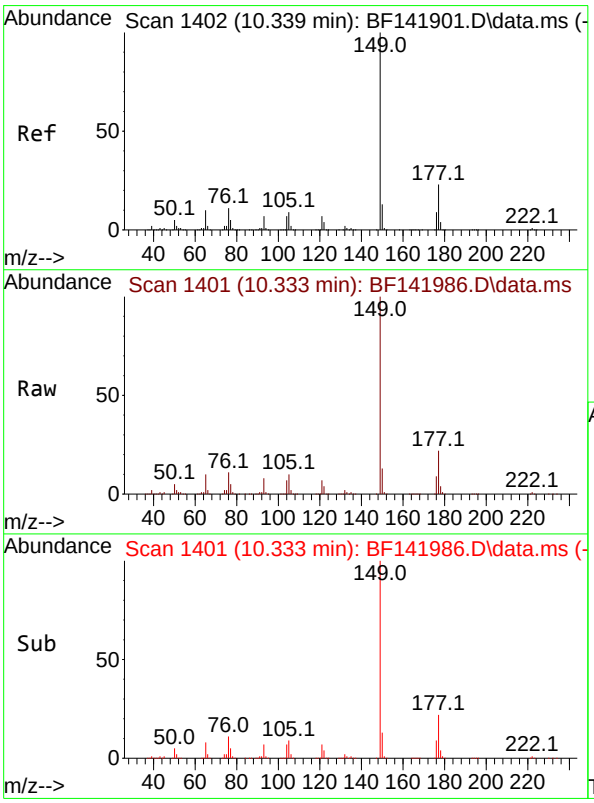
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.207 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 291029

Ion	Ratio	Lower	Upper
232	100		
131	45.1	37.3	55.9
130	2.2	1.9	2.9
166	30.2	24.8	37.2

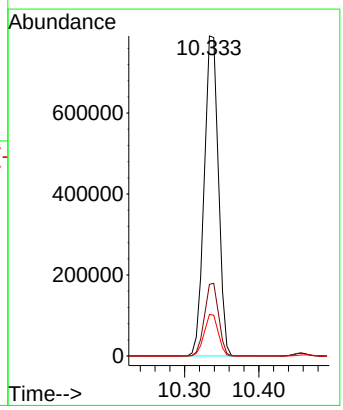


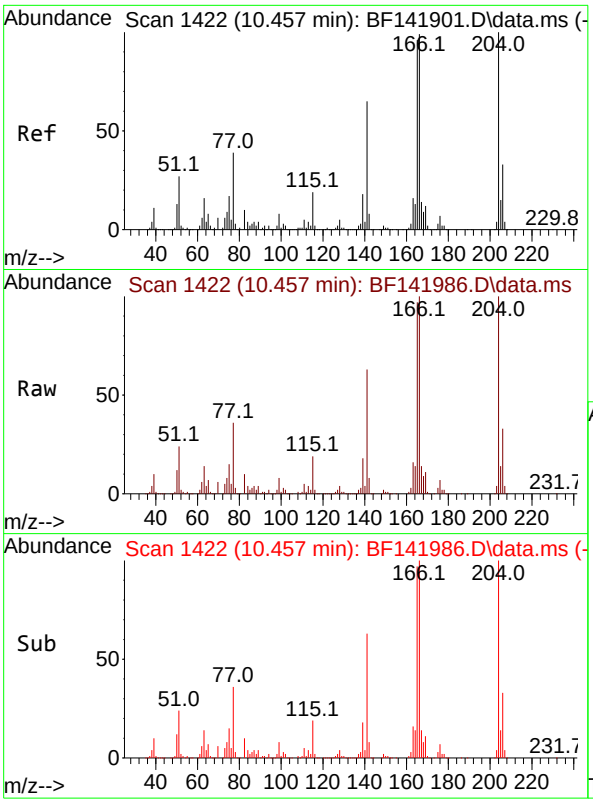


#60
Diethylphthalate
Concen: 37.269 ng
RT: 10.333 min Scan# 1401
Delta R.T. -0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:149 Resp: 1053367

Ion	Ratio	Lower	Upper
149	100		
177	22.4	18.0	27.0
150	13.0	10.2	15.4



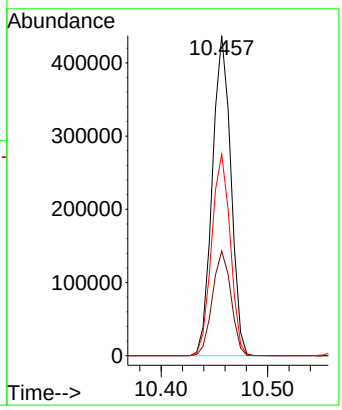


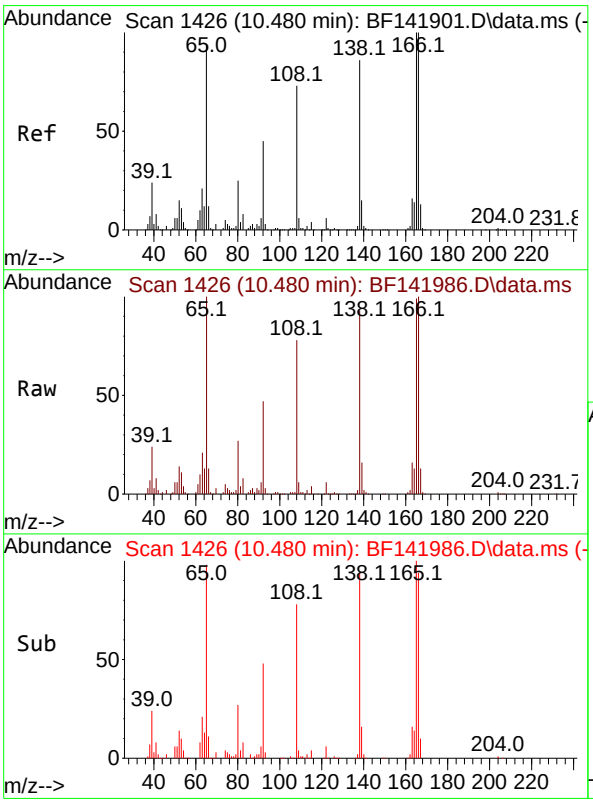
#61
4-Chlorophenyl-phenylether
Concen: 38.356 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 526771

Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.8	40.2
141	63.0	52.4	78.6

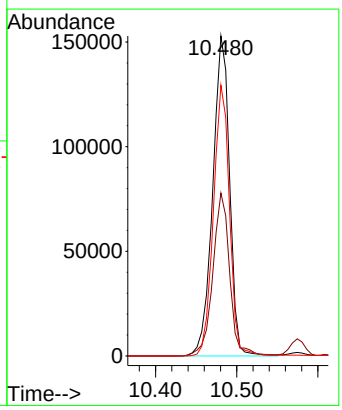


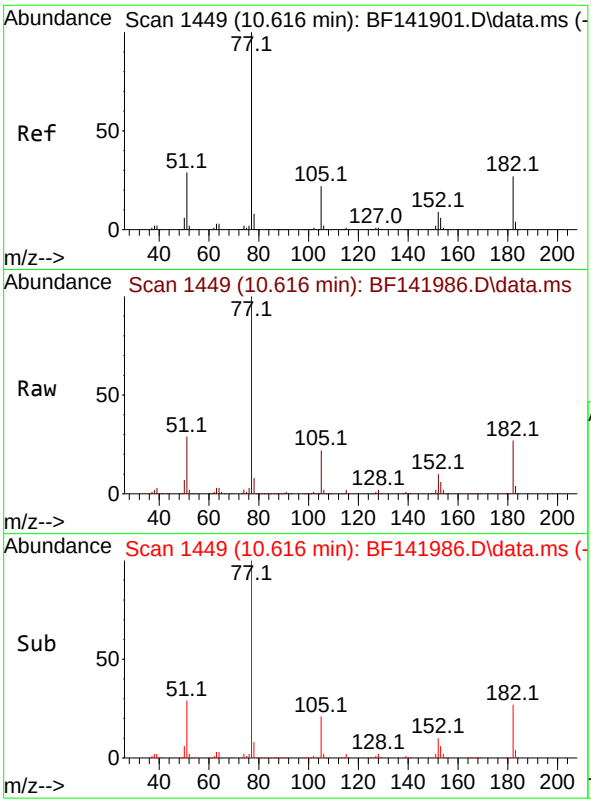


#62
4-Nitroaniline
Concen: 37.942 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:138 Resp: 221139

Ion	Ratio	Lower	Upper
138	100		
92	50.9	32.6	72.6
108	84.6	65.0	105.0



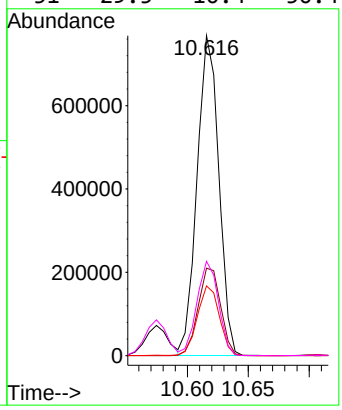


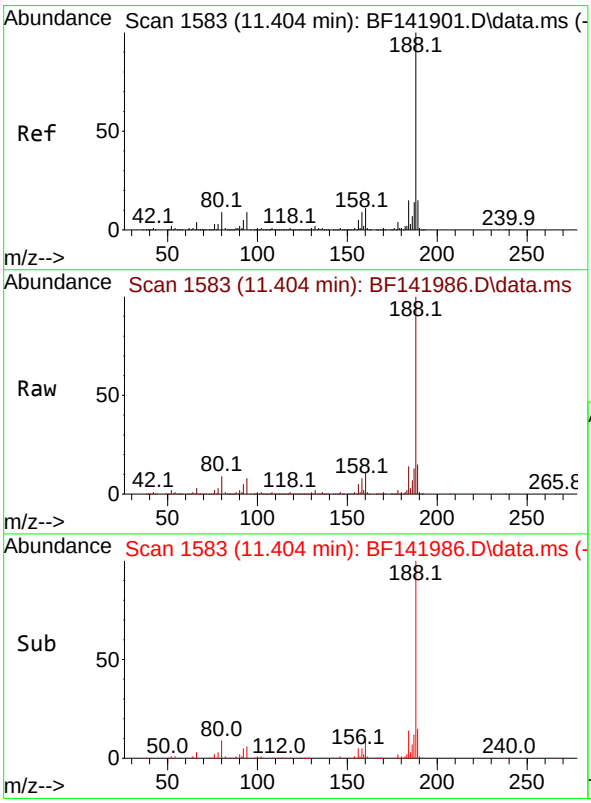
#63
Azobenzene
Concen: 36.226 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 951940

Ion	Ratio	Lower	Upper
77	100		
182	27.4	6.6	46.6
105	21.8	1.3	41.3
51	29.5	10.4	50.4

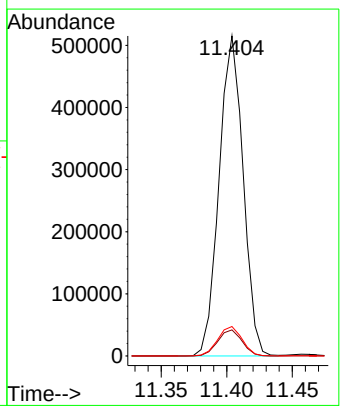


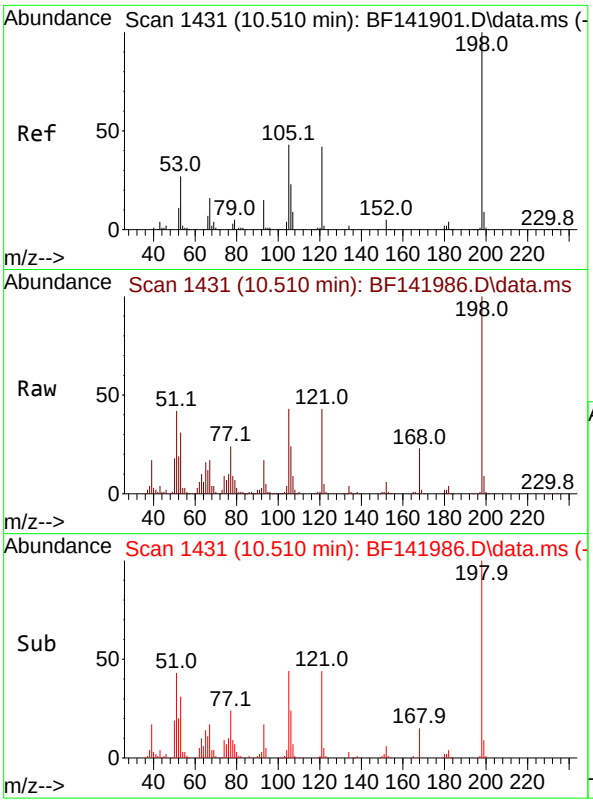


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:188 Resp: 656489

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.8	10.2
80	9.2	7.6	11.4



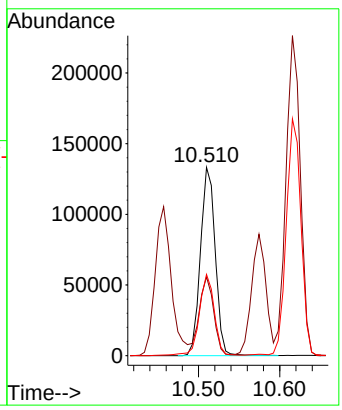


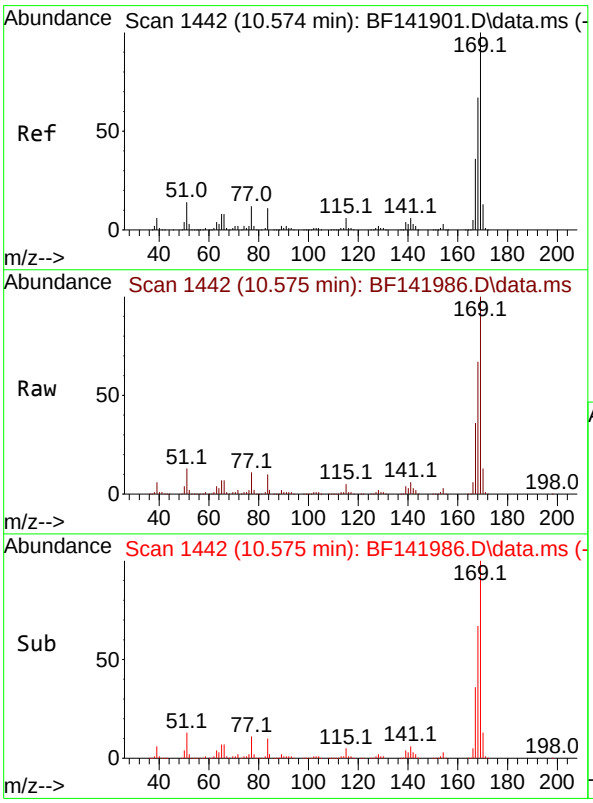
#65
4,6-Dinitro-2-methylphenol
Concen: 43.074 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 168574

Ion	Ratio	Lower	Upper
198	100		
51	41.8	22.3	62.3
105	43.1	23.0	63.0

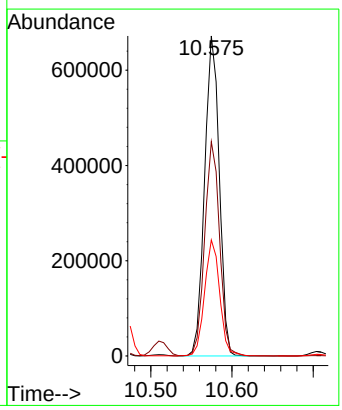


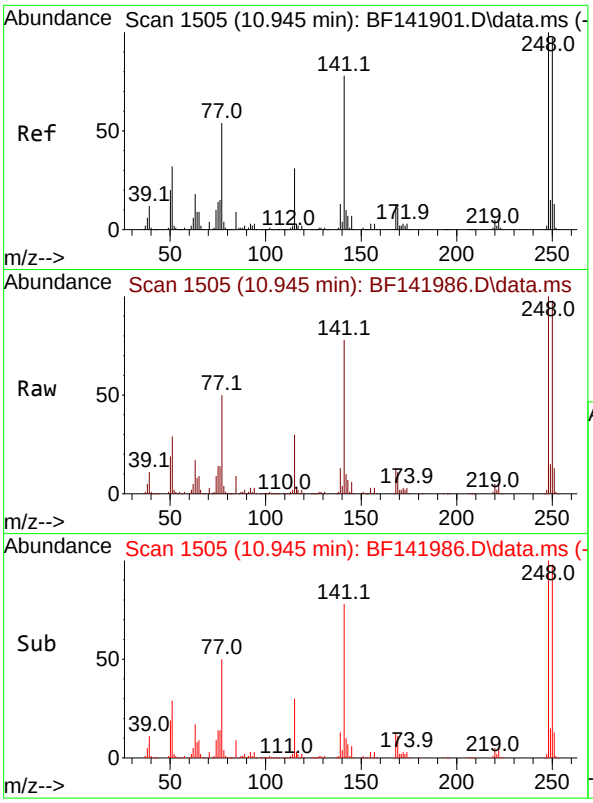


#66
n-Nitrosodiphenylamine
Concen: 39.659 ng
RT: 10.575 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:169 Resp: 842525

Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.7	80.5
167	36.2	29.2	43.8



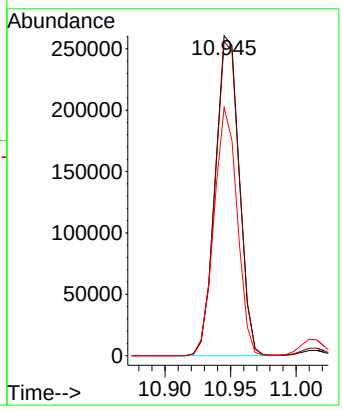


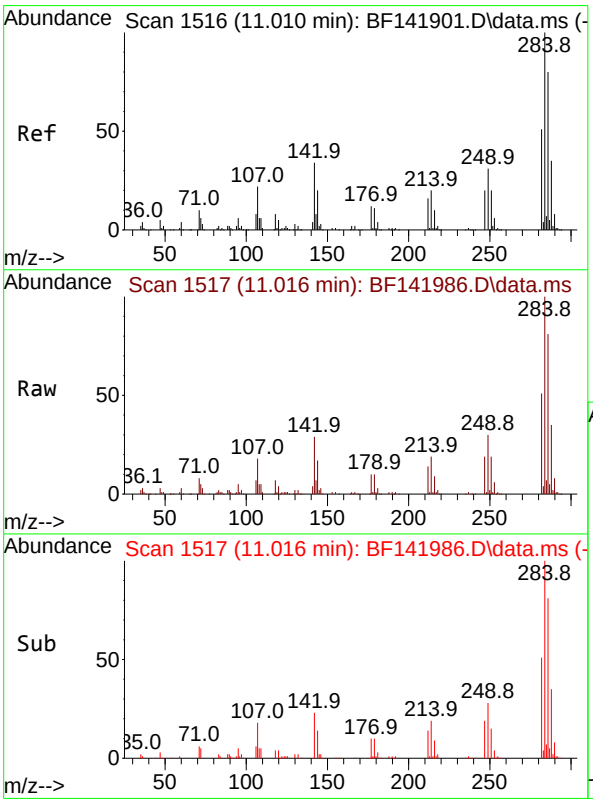
#67
4-Bromophenyl-phenylether
Concen: 40.275 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 332055

Ion	Ratio	Lower	Upper
248	100		
250	98.2	77.8	116.8
141	77.5	62.6	93.8

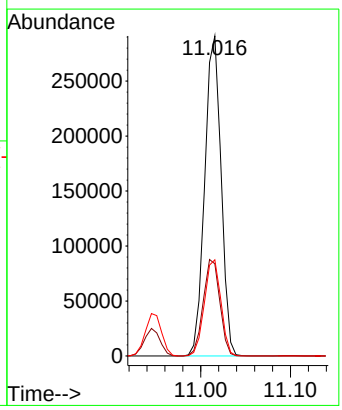


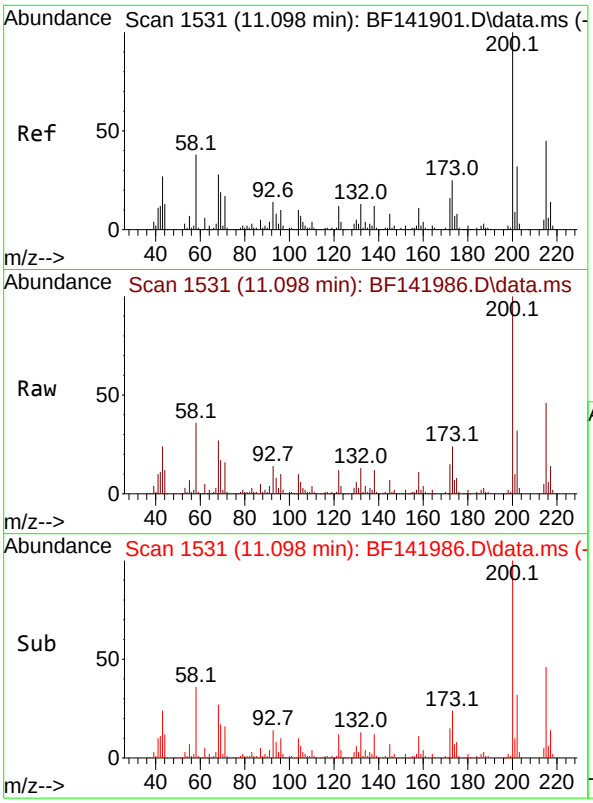


#68
Hexachlorobenzene
Concen: 40.783 ng
RT: 11.016 min Scan# 1517
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:284 Resp: 368782

Ion	Ratio	Lower	Upper
284	100		
142	28.8	27.0	40.6
249	30.1	25.2	37.8



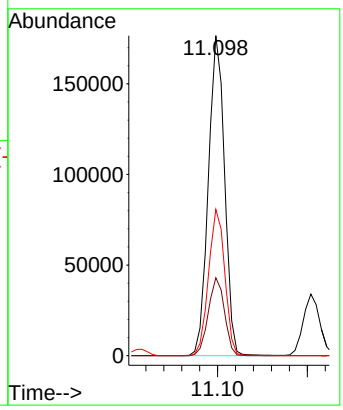


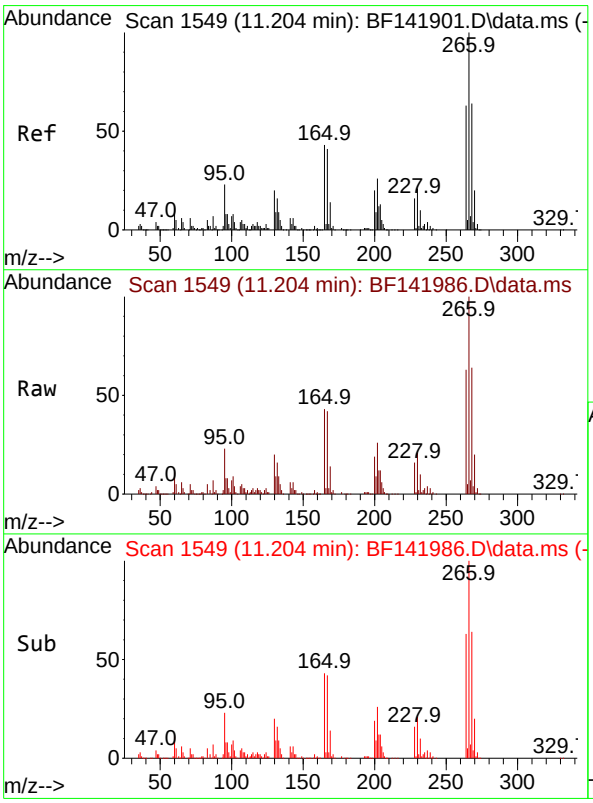
#69
Atrazine
Concen: 34.069 ng
RT: 11.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 221880

Ion	Ratio	Lower	Upper
200	100		
173	24.4	4.7	44.7
215	45.7	25.4	65.4

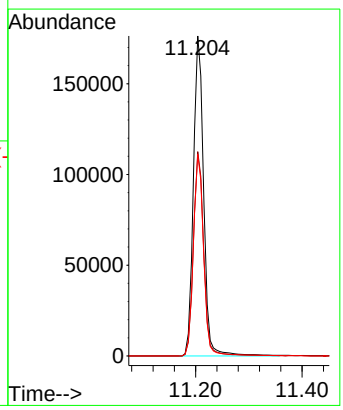


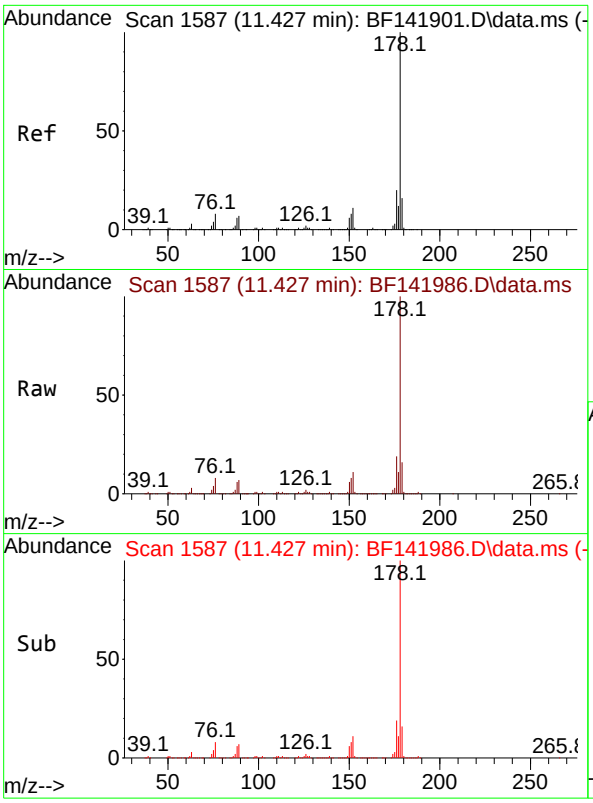


#70
Pentachlorophenol
Concen: 42.349 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:266 Resp: 235941

Ion	Ratio	Lower	Upper
266	100		
268	63.9	51.0	76.6
264	63.0	50.2	75.2



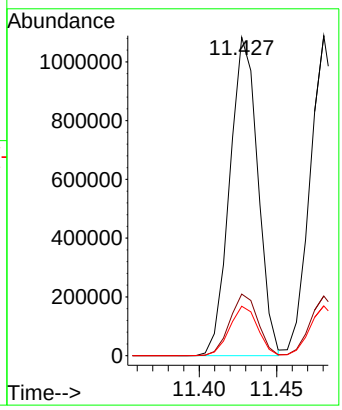


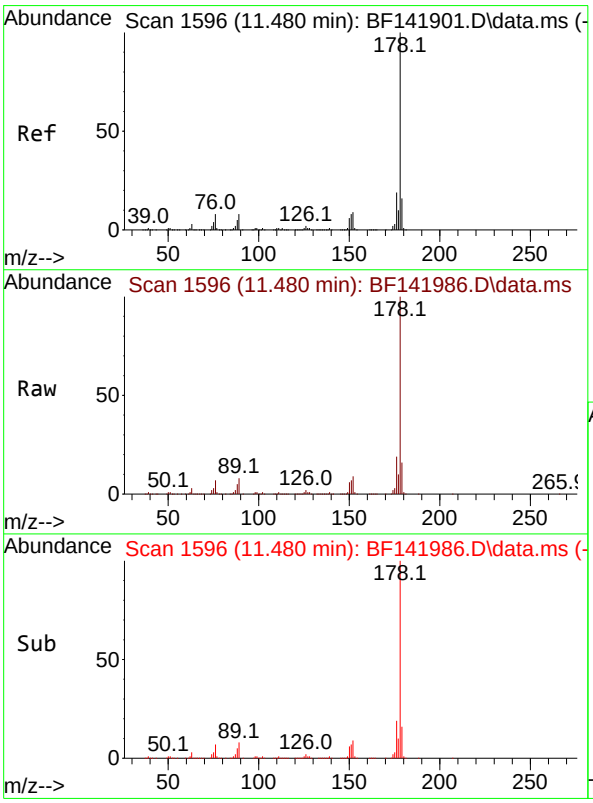
#71
Phenanthrene
Concen: 38.514 ng
RT: 11.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1365675

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.5	12.6	19.0

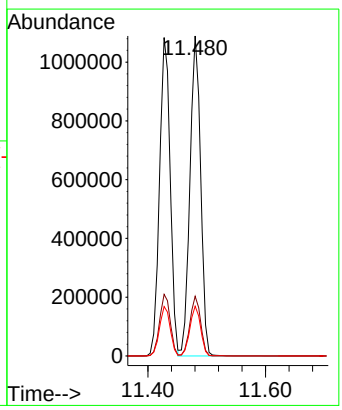


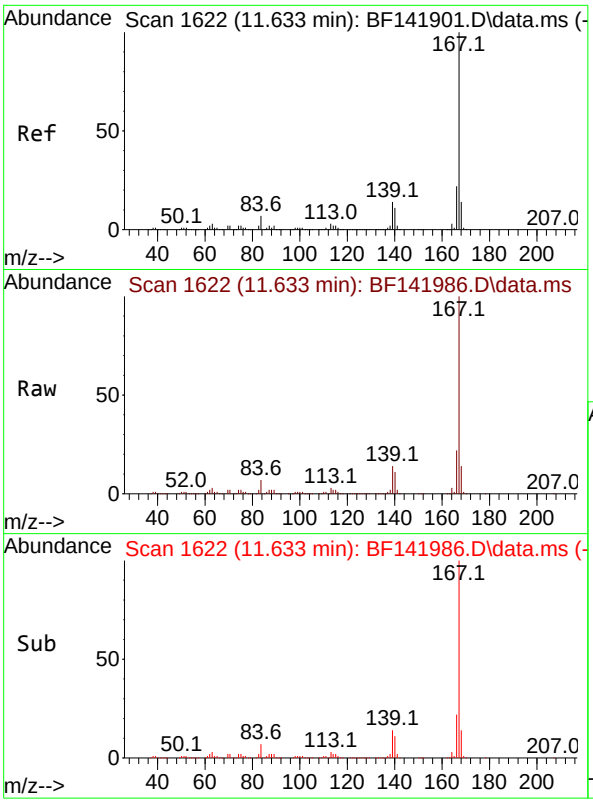


#72
Anthracene
Concen: 38.553 ng
RT: 11.480 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:178 Resp: 1371511

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.1	22.7
179	15.6	12.6	19.0



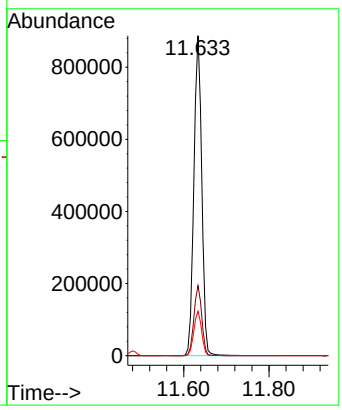


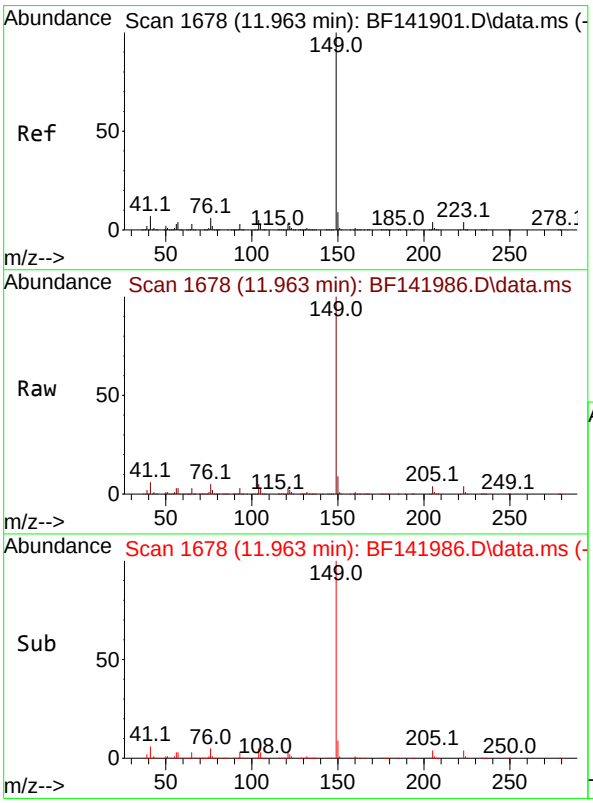
#73
Carbazole
Concen: 37.135 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1139310

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.4	26.2
139	13.9	11.0	16.6

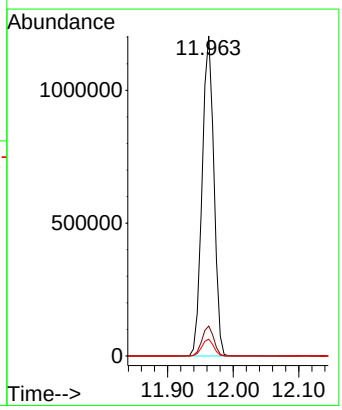


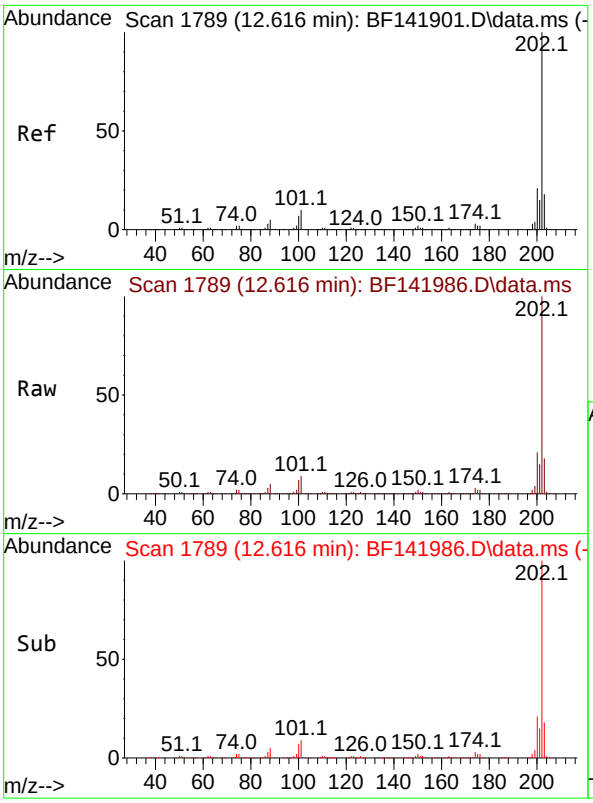


#74
Di-n-butylphthalate
Concen: 36.961 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:149 Resp: 1504625

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.6	11.4
104	5.2	4.4	6.6



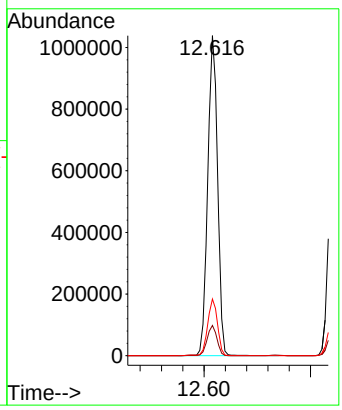


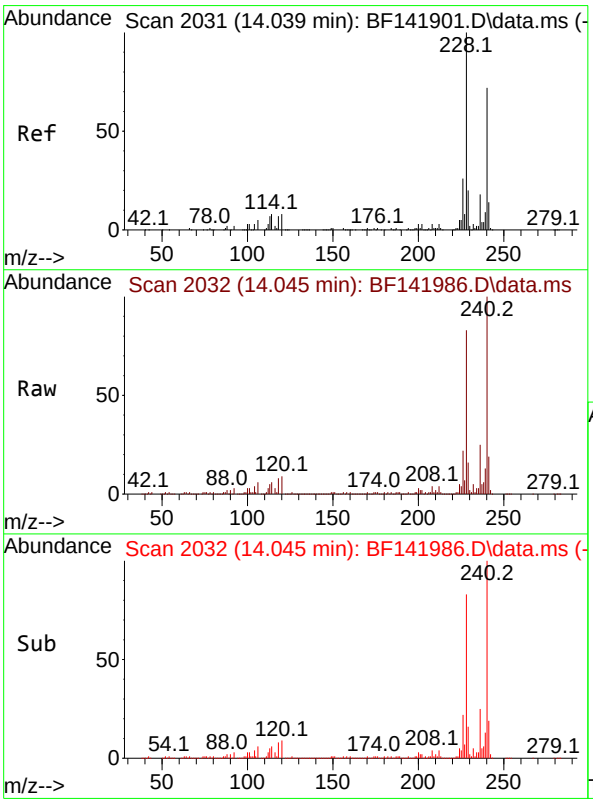
#75
Fluoranthene
Concen: 35.328 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 1328836

Ion	Ratio	Lower	Upper
202	100		
101	9.5	0.0	29.7
203	17.7	0.0	37.8

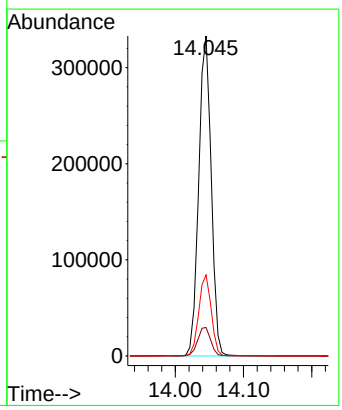


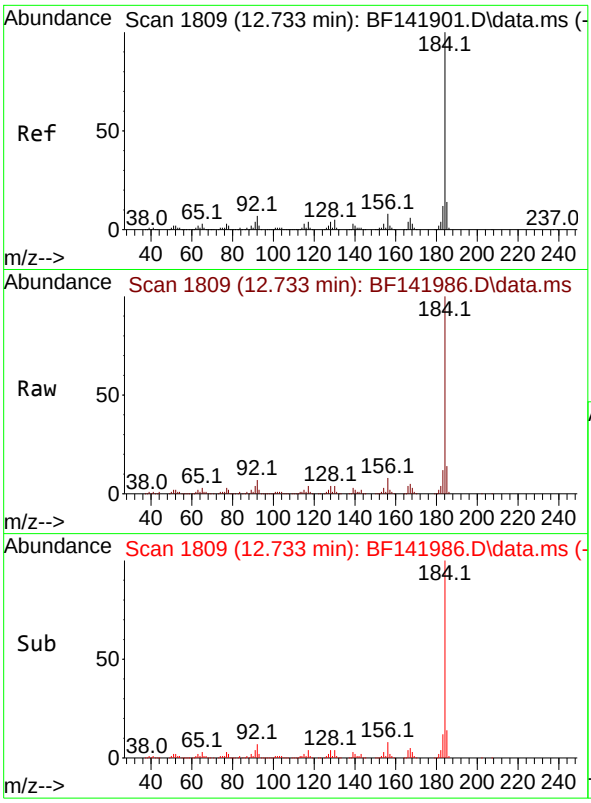


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:240 Resp: 423581

Ion	Ratio	Lower	Upper
240	100		
120	8.9	8.4	12.6
236	25.3	20.5	30.7



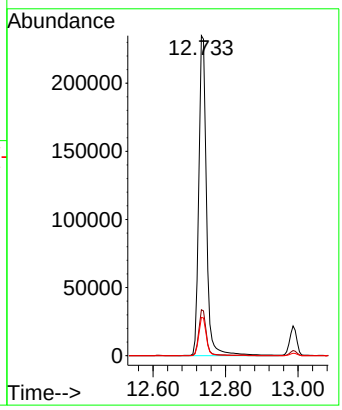


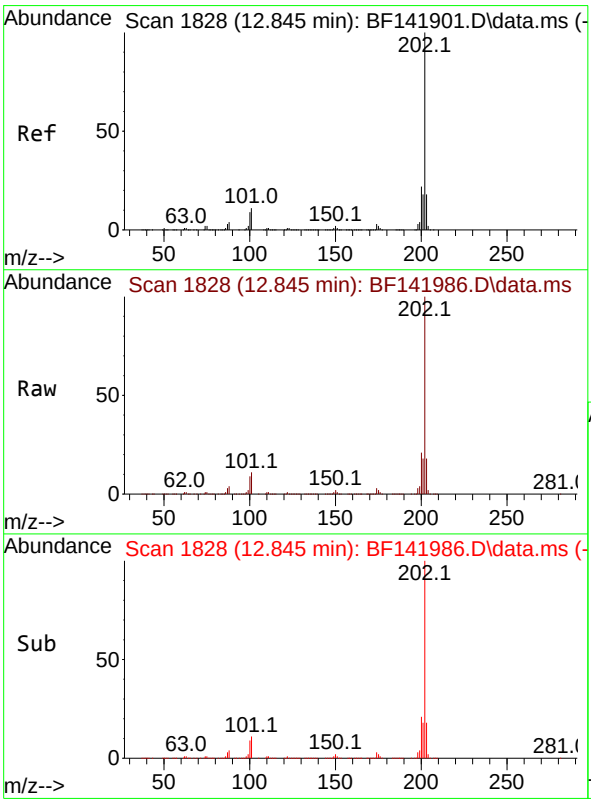
#77
Benzidine
Concen: 58.500 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 345723

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.5	17.3
183	12.0	9.7	14.5

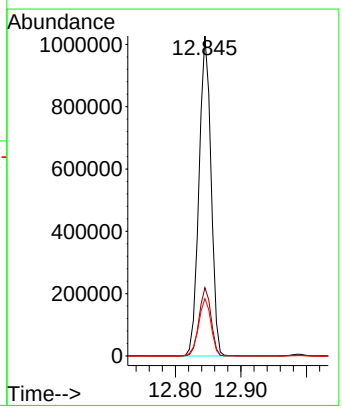


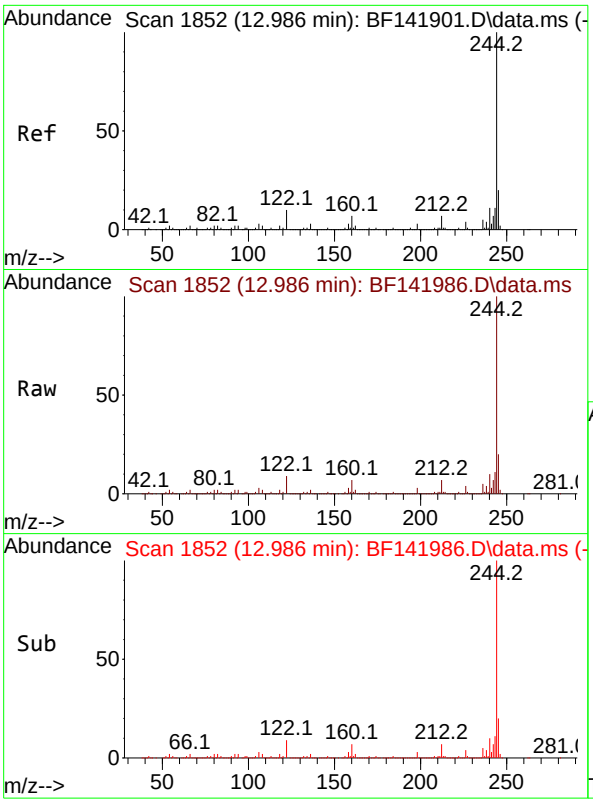


#78
Pyrene
Concen: 35.766 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:202 Resp: 1310463

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.3	25.9
203	17.9	14.4	21.6



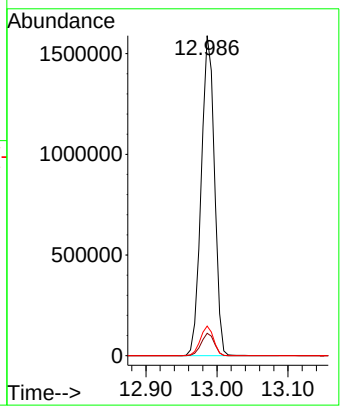


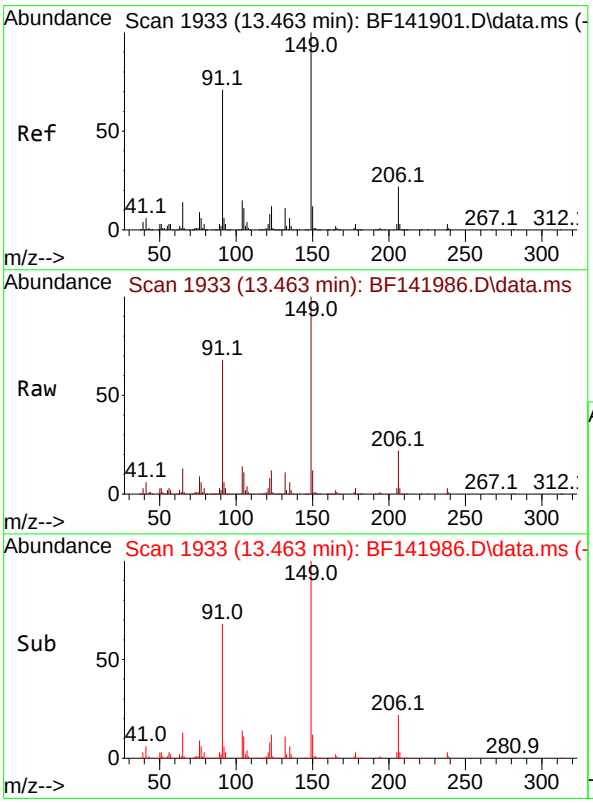
#79
Terphenyl-d14
Concen: 72.220 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 2069130

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	9.3	7.7	11.5

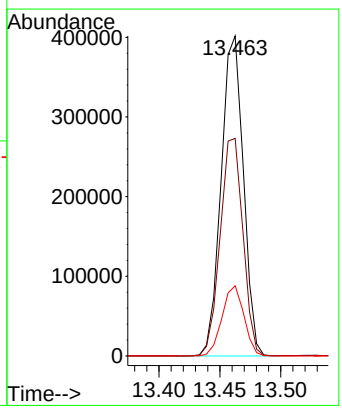


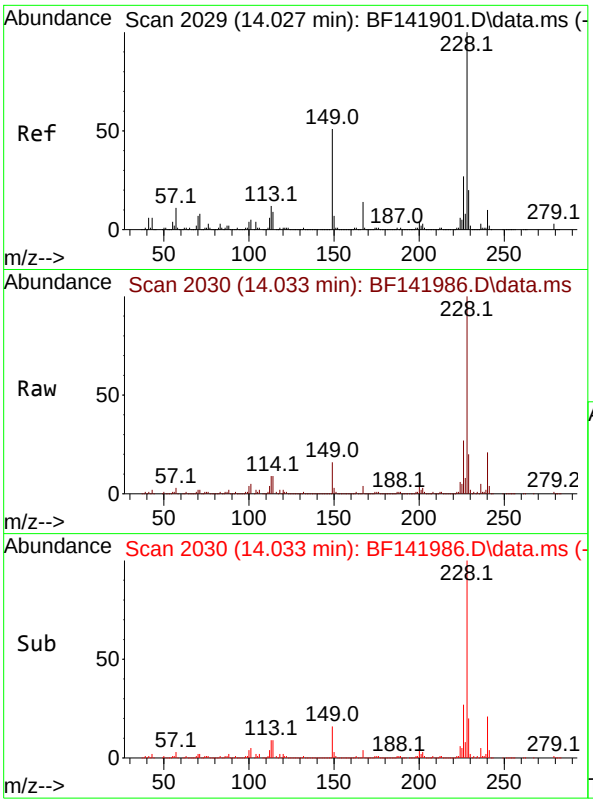


#80
Butylbenzylphthalate
Concen: 35.689 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:149 Resp: 511817

Ion	Ratio	Lower	Upper
149	100		
91	68.0	56.5	84.7
206	22.0	17.3	25.9



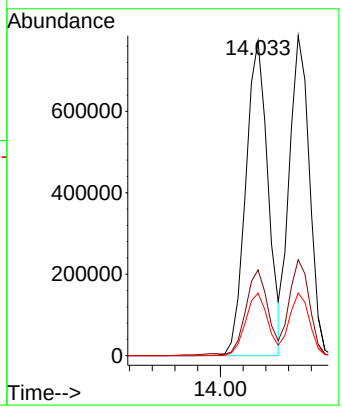


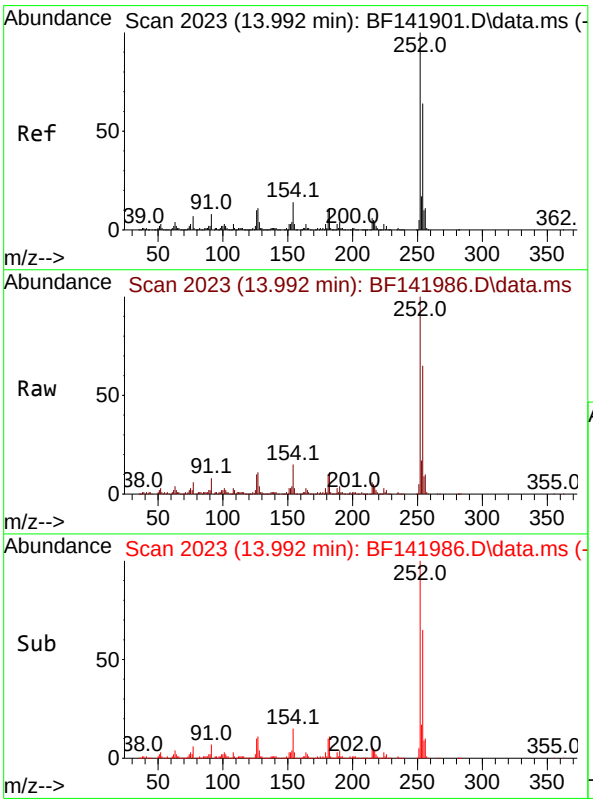
#81
Benzo(a)anthracene
Concen: 37.966 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1055282

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	19.9	16.0	24.0

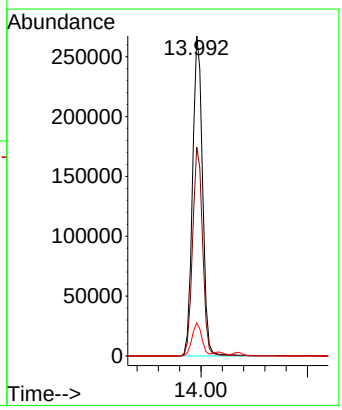


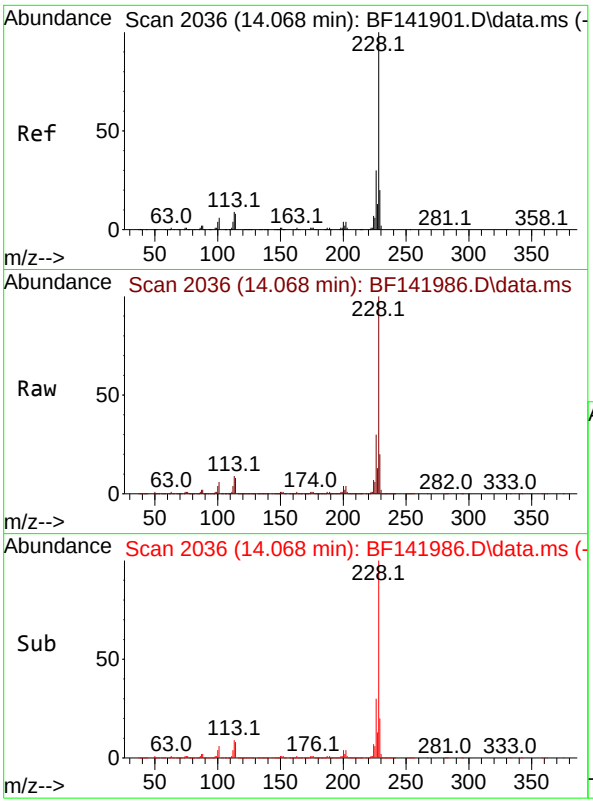


#82
3,3'-Dichlorobenzidine
Concen: 43.479 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:252 Resp: 349244

Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.0	76.6
126	10.3	8.4	12.6



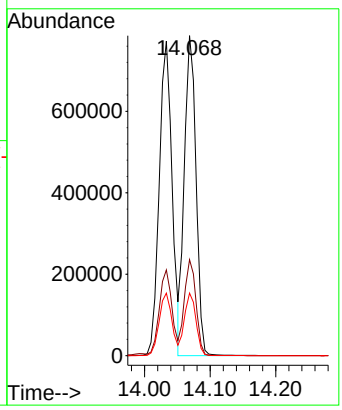


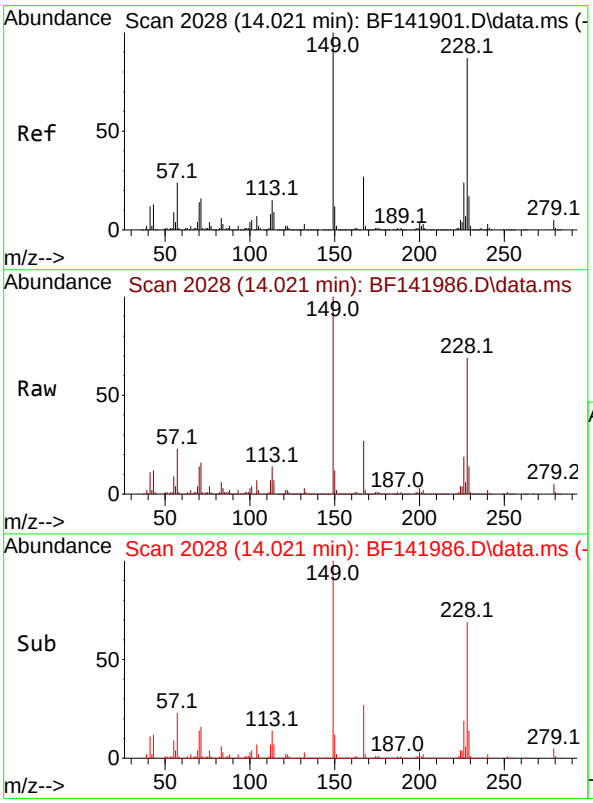
#83
Chrysene
Concen: 38.426 ng
RT: 14.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 968167

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.1	36.1
229	19.6	15.7	23.5

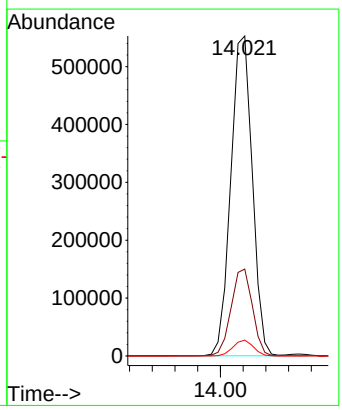


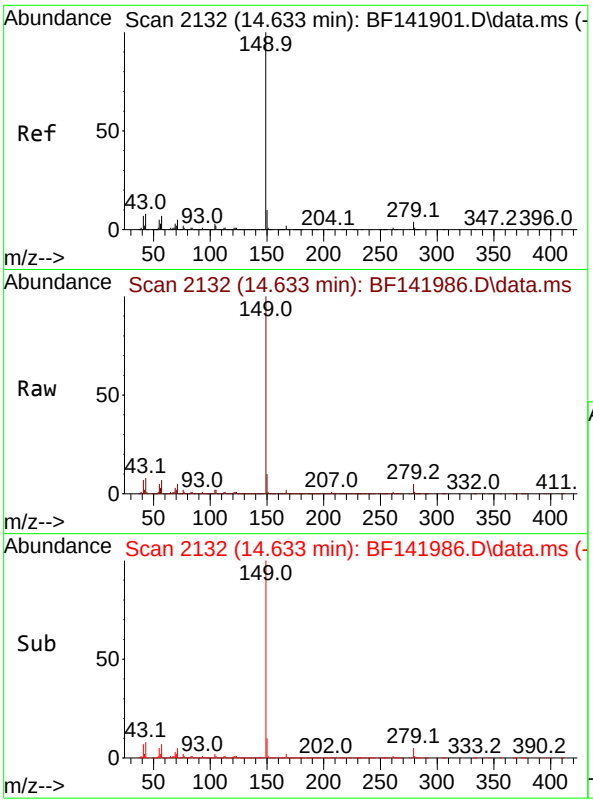


#84
Bis(2-ethylhexyl)phthalate
Concen: 36.735 ng
RT: 14.021 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:149 Resp: 726375

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.4	32.0
279	5.0	3.8	5.6



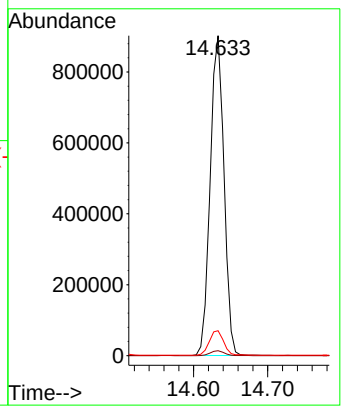


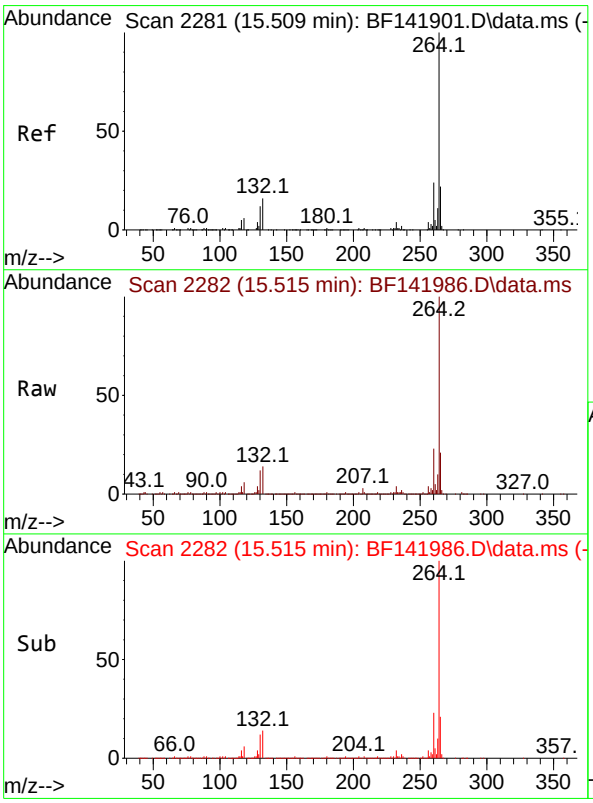
#85
Di-n-octyl phthalate
Concen: 42.443 ng
RT: 14.633 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 1167717

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.1	6.9	10.3

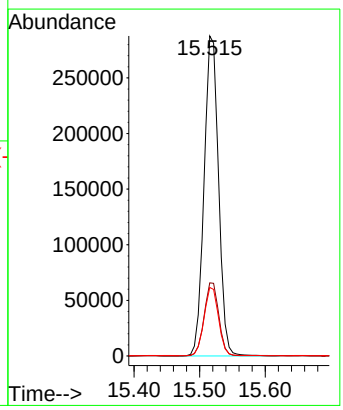


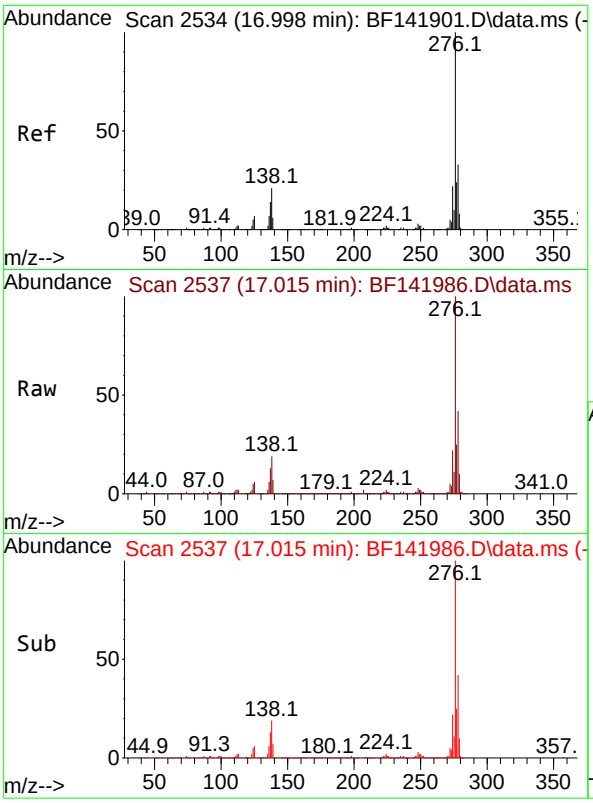


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:264 Resp: 442923

Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.1	28.7
265	21.4	17.5	26.3



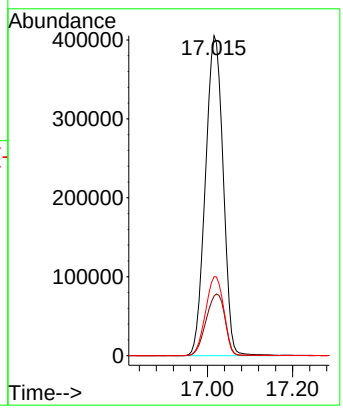


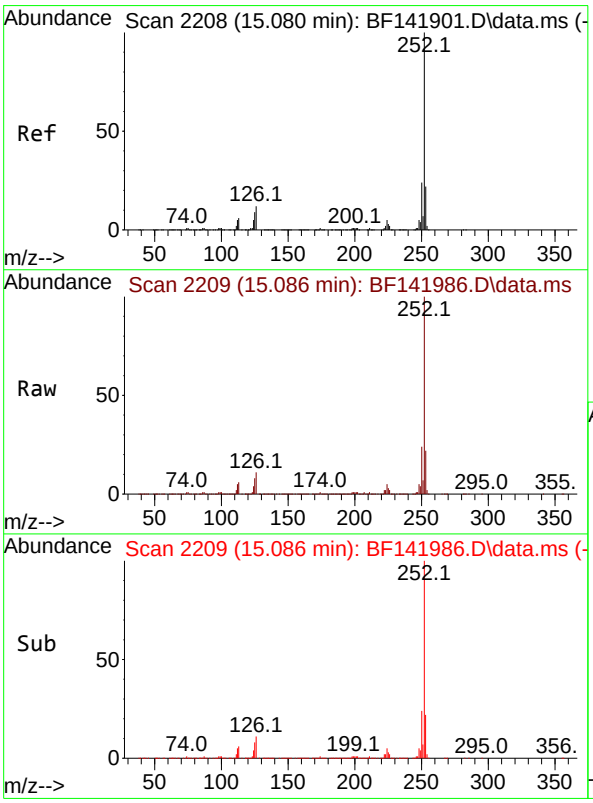
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.816 ng
RT: 17.015 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 1169448

Ion	Ratio	Lower	Upper
276	100		
138	20.6	18.4	27.6
277	25.6	20.3	30.5

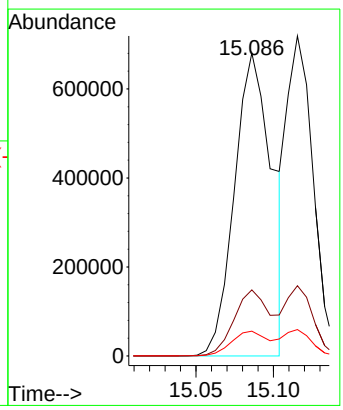


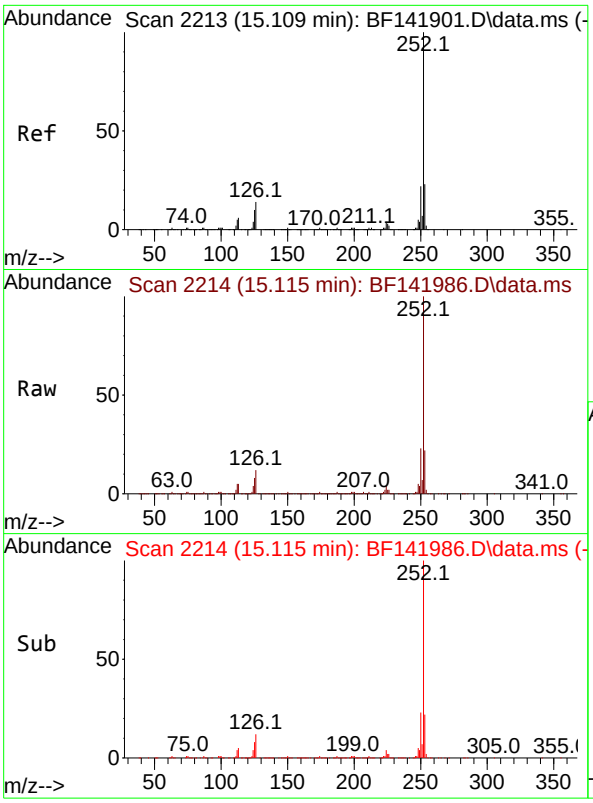


#88
Benzo(b)fluoranthene
Concen: 37.895 ng
RT: 15.086 min Scan# 2209
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:252 Resp: 1150357

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	8.2	7.0	10.4



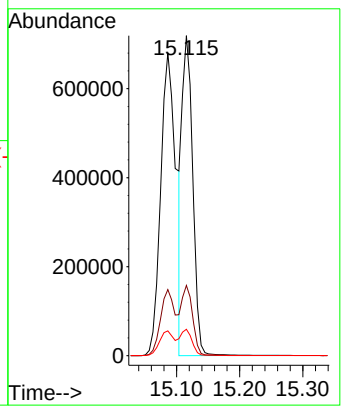


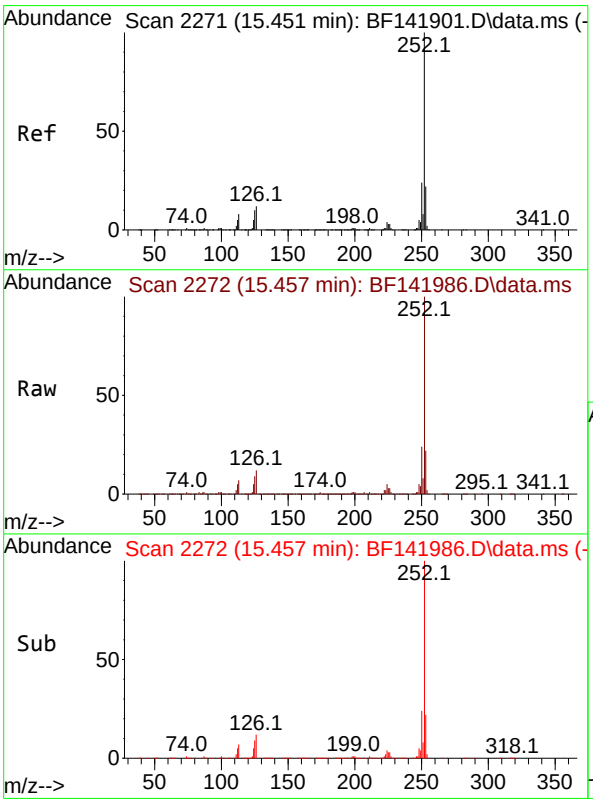
#89
Benzo(k)fluoranthene
Concen: 32.755 ng
RT: 15.115 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 850896

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	8.3	7.2	10.8

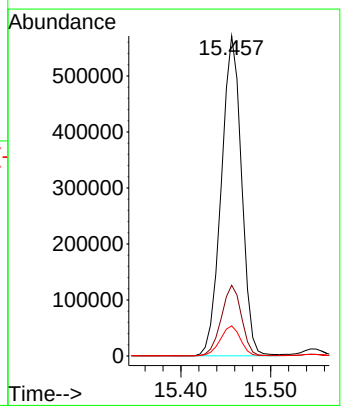


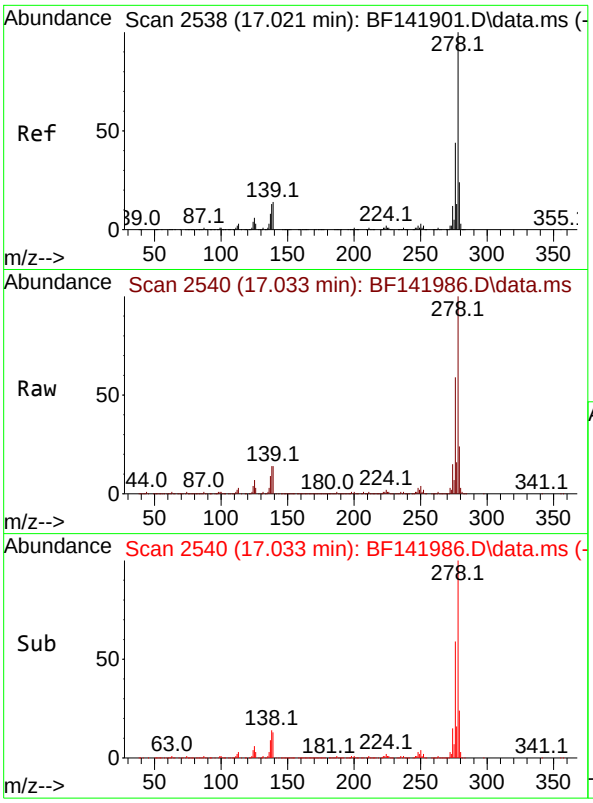


#90
Benzo(a)pyrene
Concen: 37.612 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:252 Resp: 893373

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0
125	9.4	7.8	11.8



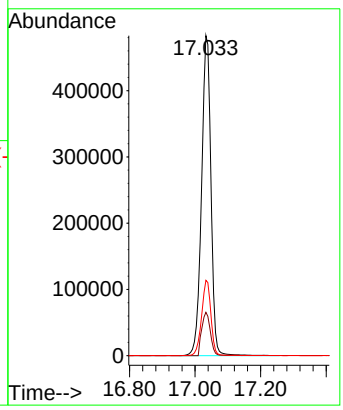


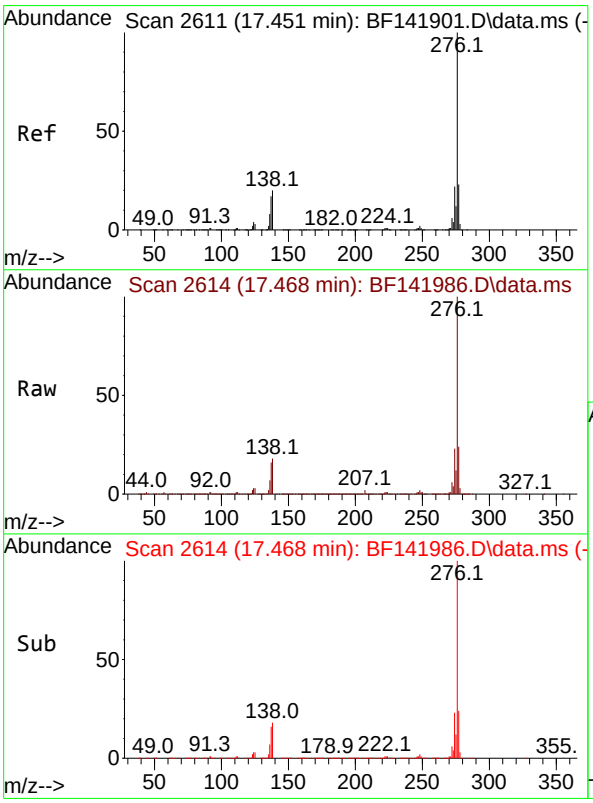
#91
Dibenzo(a,h)anthracene
Concen: 40.860 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 965934

Ion	Ratio	Lower	Upper
278	100		
139	13.5	11.4	17.2
279	23.5	18.8	28.2

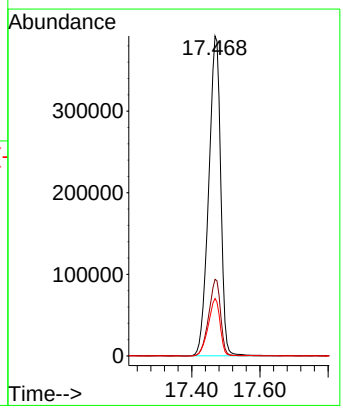




#92
Benzo(g,h,i)perylene
Concen: 40.951 ng
RT: 17.468 min Scan# 2614
Delta R.T. 0.018 min
Lab File: BF141986.D
Acq: 18 Mar 2025 10:00

Tgt Ion:276 Resp: 956656

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.7	28.1
138	17.9	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141986.D
Acq On : 18 Mar 2025 10:00
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 11:21:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
2		1,4-Dioxane	0.502	0.468	6.8	83	-0.02
3		Pyridine	1.232	1.146	7.0	84	-0.02
4		n-Nitrosodimethylamine	0.587	0.535	8.9	82	-0.02
5	S	2-Fluorophenol	1.198	1.134	5.3	89	0.00
6		Aniline	1.505	1.325	12.0	81	0.00
7	S	Phenol-d6	1.526	1.389	9.0	87	0.00
8		2-Chlorophenol	1.329	1.232	7.3	88	0.00
9		Benzaldehyde	0.853	0.718	15.8	83	0.00
10	C	Phenol	1.605	1.452	9.5	85	0.00
11		bis(2-Chloroethyl)ether	1.205	1.072	11.0	84	0.00
12		1,3-Dichlorobenzene	1.435	1.381	3.8	90	0.00
13	C	1,4-Dichlorobenzene	1.452	1.376	5.2	89	0.00
14		1,2-Dichlorobenzene	1.367	1.289	5.7	89	0.00
15		Benzyl Alcohol	1.233	1.111	9.9	84	0.00
16		2,2'-oxybis(1-Chloropropane	1.455	1.205	17.2	80	0.00
17		2-Methylphenol	1.057	0.935	11.5	83	0.00
18		Hexachloroethane	0.544	0.511	6.1	89	0.00
19	P	n-Nitroso-di-n-propylamine	0.980	0.814	16.9	80	0.00
20		3+4-Methylphenols	1.354	1.180	12.9	82	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	85	0.00
22		Acetophenone	0.479	0.448	6.5	82	0.00
23	S	Nitrobenzene-d5	0.355	0.347	2.3	84	0.00
24		Nitrobenzene	0.353	0.341	3.4	83	0.00
25		Isophorone	0.628	0.567	9.7	80	0.00
26	C	2-Nitrophenol	0.173	0.179	-3.5	87	0.00
27		2,4-Dimethylphenol	0.239	0.224	6.3	82	0.00
28		bis(2-Chloroethoxy)methane	0.394	0.362	8.1	82	0.00
29	C	2,4-Dichlorophenol	0.296	0.285	3.7	84	0.00
30		1,2,4-Trichlorobenzene	0.327	0.325	0.6	89	0.00
31		Naphthalene	1.027	0.984	4.2	85	0.00
32		Benzoic acid	0.210	0.220	-4.8	89	0.00
33		4-Chloroaniline	0.363	0.338	6.9	81	0.00
34	C	Hexachlorobutadiene	0.213	0.218	-2.3	91	0.00
35		Caprolactam	0.090	0.081	10.0	82	0.00
36	C	4-Chloro-3-methylphenol	0.331	0.307	7.3	82	0.00
37		2-Methylnaphthalene	0.687	0.645	6.1	83	0.00
38		1-Methylnaphthalene	0.663	0.623	6.0	84	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00
40		1,2,4,5-Tetrachlorobenzene	0.609	0.613	-0.7	85	0.00
41	P	Hexachlorocyclopentadiene	0.238	0.240	-0.8	79	0.00
42	S	2,4,6-Tribromophenol	0.254	0.249	2.0	81	0.00
43	C	2,4,6-Trichlorophenol	0.398	0.390	2.0	80	0.00
44		2,4,5-Trichlorophenol	0.403	0.408	-1.2	86	0.00
45	S	2-Fluorobiphenyl	1.315	1.277	2.9	84	0.00
46		1,1'-Biphenyl	1.520	1.463	3.7	82	0.00
47		2-Chloronaphthalene	1.133	1.094	3.4	82	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141986.D
Acq On : 18 Mar 2025 10:00
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 11:21:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.328	0.312	4.9	79	0.00
49		Acenaphthylene	1.681	1.619	3.7	81	0.00
50		Dimethylphthalate	1.401	1.313	6.3	81	0.00
51		2,6-Dinitrotoluene	0.292	0.284	2.7	82	0.00
52	C	Acenaphthene	1.181	1.156	2.1	83	0.00
53		3-Nitroaniline	0.296	0.282	4.7	79	0.00
54	P	2,4-Dinitrophenol	0.139	0.155	-11.5	90	0.00
55		Dibenzofuran	1.688	1.620	4.0	82	0.00
56	P	4-Nitrophenol	0.223	0.220	1.3	79	0.00
57		2,4-Dinitrotoluene	0.381	0.373	2.1	81	0.00
58		Fluorene	1.302	1.226	5.8	82	0.00
59		2,3,4,6-Tetrachlorophenol	0.367	0.359	2.2	82	0.00
60		Diethylphthalate	1.397	1.301	6.9	80	0.00
61		4-Chlorophenyl-phenylether	0.679	0.651	4.1	83	0.00
62		4-Nitroaniline	0.288	0.273	5.2	78	0.00
63		Azobenzene	1.298	1.176	9.4	77	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	78	0.00
65		4,6-Dinitro-2-methylphenol	0.119	0.128	-7.6	83	0.00
66	c	n-Nitrosodiphenylamine	0.647	0.642	0.8	81	0.00
67		4-Bromophenyl-phenylether	0.251	0.253	-0.8	81	0.00
68		Hexachlorobenzene	0.275	0.281	-2.2	82	0.00
69		Atrazine	0.198	0.169	14.6	81	0.00
70	C	Pentachlorophenol	0.170	0.180	-5.9	79	0.00
71		Phenanthrene	1.080	1.040	3.7	78	0.00
72		Anthracene	1.084	1.045	3.6	78	0.00
73		Carbazole	0.935	0.868	7.2	75	0.00
74		Di-n-butylphthalate	1.240	1.146	7.6	76	0.00
75	C	Fluoranthene	1.146	1.012	11.7	71	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	74	0.00
77		Benzidine	0.279	0.408	-46.2#	84	0.00
78		Pyrene	1.730	1.547	10.6	71	0.00
79	S	Terphenyl-d14	1.353	1.221	9.8	71	0.00
80		Butylbenzylphthalate	0.677	0.604	10.8	69	0.00
81		Benzo(a)anthracene	1.312	1.246	5.0	73	0.00
82		3,3'-Dichlorobenzidine	0.379	0.412	-8.7	82	0.00
83		Chrysene	1.190	1.143	3.9	75	0.00
84		Bis(2-ethylhexyl)phthalate	0.934	0.857	8.2	71	0.00
85	c	Di-n-octyl phthalate	1.299	1.378	-6.1	81	0.00
86	I	Perylene-d12	1.000	1.000	0.0	94	0.00
87		Indeno(1,2,3-cd)pyrene	1.294	1.320	-2.0	97	0.02
88		Benzo(b)fluoranthene	1.371	1.299	5.3	101	0.00
89		Benzo(k)fluoranthene	1.173	0.961	18.1	75	0.00
90	C	Benzo(a)pyrene	1.073	1.008	6.1	92	0.00
91		Dibenzo(a,h)anthracene	1.067	1.090	-2.2	96	0.01
92		Benzo(g,h,i)perylene	1.055	1.080	-2.4	96	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141986.D
Acq On : 18 Mar 2025 10:00
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 11:21:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141986.D
Acq On : 18 Mar 2025 10:00
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 11:21:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	90	0.00
2		1,4-Dioxane	40.000	37.252	6.9	83	-0.02
3		Pyridine	40.000	37.226	6.9	84	-0.02
4		n-Nitrosodimethylamine	40.000	36.416	9.0	82	-0.02
5	S	2-Fluorophenol	80.000	75.701	5.4	89	0.00
6		Aniline	40.000	35.210	12.0	81	0.00
7	S	Phenol-d6	80.000	72.854	8.9	87	0.00
8		2-Chlorophenol	40.000	37.066	7.3	88	0.00
9		Benzaldehyde	40.000	33.661	15.8	83	0.00
10	C	Phenol	40.000	36.191	9.5	85	0.00
11		bis(2-Chloroethyl)ether	40.000	35.574	11.1	84	0.00
12		1,3-Dichlorobenzene	40.000	38.492	3.8	90	0.00
13	C	1,4-Dichlorobenzene	40.000	37.914	5.2	89	0.00
14		1,2-Dichlorobenzene	40.000	37.716	5.7	89	0.00
15		Benzyl Alcohol	40.000	36.030	9.9	84	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	33.122	17.2	80	0.00
17		2-Methylphenol	40.000	35.394	11.5	83	0.00
18		Hexachloroethane	40.000	37.553	6.1	89	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	33.192	17.0	80	0.00
20		3+4-Methylphenols	40.000	34.870	12.8	82	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	85	0.00
22		Acetophenone	40.000	37.418	6.5	82	0.00
23	S	Nitrobenzene-d5	80.000	78.120	2.3	84	0.00
24		Nitrobenzene	40.000	38.639	3.4	83	0.00
25		Isophorone	40.000	36.108	9.7	80	0.00
26	C	2-Nitrophenol	40.000	41.405	-3.5	87	0.00
27		2,4-Dimethylphenol	40.000	37.506	6.2	82	0.00
28		bis(2-Chloroethoxy)methane	40.000	36.710	8.2	82	0.00
29	C	2,4-Dichlorophenol	40.000	38.399	4.0	84	0.00
30		1,2,4-Trichlorobenzene	40.000	39.805	0.5	89	0.00
31		Naphthalene	40.000	38.325	4.2	85	0.00
32		Benzoic acid	40.000	41.895	-4.7	89	0.00
33		4-Chloroaniline	40.000	37.234	6.9	81	0.00
34	C	Hexachlorobutadiene	40.000	40.986	-2.5	91	0.00
35		Caprolactam	40.000	36.061	9.8	82	0.00
36	C	4-Chloro-3-methylphenol	40.000	37.150	7.1	82	0.00
37		2-Methylnaphthalene	40.000	37.546	6.1	83	0.00
38		1-Methylnaphthalene	40.000	37.596	6.0	84	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	82	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.267	-0.7	85	0.00
41	P	Hexachlorocyclopentadiene	40.000	40.332	-0.8	79	0.00
42	S	2,4,6-Tribromophenol	80.000	78.373	2.0	81	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.167	2.1	80	0.00
44		2,4,5-Trichlorophenol	40.000	40.458	-1.1	86	0.00
45	S	2-Fluorobiphenyl	80.000	77.707	2.9	84	0.00
46		1,1'-Biphenyl	40.000	38.497	3.8	82	0.00
47		2-Chloronaphthalene	40.000	38.643	3.4	82	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141986.D
Acq On : 18 Mar 2025 10:00
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 11:21:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	38.027	4.9	79	0.00
49		Acenaphthylene	40.000	38.522	3.7	81	0.00
50		Dimethylphthalate	40.000	37.497	6.3	81	0.00
51		2,6-Dinitrotoluene	40.000	39.024	2.4	82	0.00
52	C	Acenaphthene	40.000	39.142	2.1	83	0.00
53		3-Nitroaniline	40.000	38.185	4.5	79	0.00
54	P	2,4-Dinitrophenol	40.000	41.015	-2.5	90	0.00
55		Dibenzofuran	40.000	38.386	4.0	82	0.00
56	P	4-Nitrophenol	40.000	39.520	1.2	79	0.00
57		2,4-Dinitrotoluene	40.000	39.151	2.1	81	0.00
58		Fluorene	40.000	37.669	5.8	82	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.207	2.0	82	0.00
60		Diethylphthalate	40.000	37.269	6.8	80	0.00
61		4-Chlorophenyl-phenylether	40.000	38.356	4.1	83	0.00
62		4-Nitroaniline	40.000	37.942	5.1	78	0.00
63		Azobenzene	40.000	36.226	9.4	77	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	78	0.00
65		4,6-Dinitro-2-methylphenol	40.000	43.074	-7.7	83	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.659	0.9	81	0.00
67		4-Bromophenyl-phenylether	40.000	40.275	-0.7	81	0.00
68		Hexachlorobenzene	40.000	40.783	-2.0	82	0.00
69		Atrazine	40.000	34.069	14.8	81	0.00
70	C	Pentachlorophenol	40.000	42.349	-5.9	79	0.00
71		Phenanthrene	40.000	38.514	3.7	78	0.00
72		Anthracene	40.000	38.553	3.6	78	0.00
73		Carbazole	40.000	37.135	7.2	75	0.00
74		Di-n-butylphthalate	40.000	36.961	7.6	76	0.00
75	C	Fluoranthene	40.000	35.328	11.7	71	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	74	0.00
77		Benzidine	40.000	58.500	-46.3#	84	0.00
78		Pyrene	40.000	35.766	10.6	71	0.00
79	S	Terphenyl-d14	80.000	72.220	9.7	71	0.00
80		Butylbenzylphthalate	40.000	35.689	10.8	69	0.00
81		Benzo(a)anthracene	40.000	37.966	5.1	73	0.00
82		3,3'-Dichlorobenzidine	40.000	43.479	-8.7	82	0.00
83		Chrysene	40.000	38.426	3.9	75	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	36.735	8.2	71	0.00
85	c	Di-n-octyl phthalate	40.000	42.443	-6.1	81	0.00
86	I	Perylene-d12	20.000	20.000	0.0	94	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	40.816	-2.0	97	0.02
88		Benzo(b)fluoranthene	40.000	37.895	5.3	101	0.00
89		Benzo(k)fluoranthene	40.000	32.755	18.1	75	0.00
90	C	Benzo(a)pyrene	40.000	37.612	6.0	92	0.00
91		Dibenzo(a,h)anthracene	40.000	40.860	-2.1	96	0.01
92		Benzo(g,h,i)perylene	40.000	40.951	-2.4	96	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141986.D
Acq On : 18 Mar 2025 10:00
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 11:21:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: Q1569 SAS No.: Q1569 SDG No.: Q1569

Instrument ID: BNA_F Calibration Date/Time: 03/18/2025 14:30

Lab File ID: BF141994.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 11:01 15:20

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.232	1.158		-6.0	50.0
2-Fluorophenol	1.198	1.134		-5.3	50.0
Phenol-d6	1.526	1.395		-8.6	50.0
1,4-Dichlorobenzene	1.452	1.384		-4.7	50.0
2-Methylphenol	1.057	0.959		-9.3	50.0
3+4-Methylphenols	1.354	1.188		-12.3	50.0
Nitrobenzene-d5	0.355	0.343		-3.4	50.0
Hexachloroethane	0.544	0.517		-5.0	50.0
Nitrobenzene	0.353	0.341		-3.4	50.0
Hexachlorobutadiene	0.213	0.216		1.4	50.0
2,4,6-Trichlorophenol	0.398	0.395		-0.8	50.0
2-Fluorobiphenyl	1.315	1.262		-4.0	50.0
2,4,5-Trichlorophenol	0.403	0.399		-1.0	50.0
2,4-Dinitrotoluene	0.381	0.364		-4.5	50.0
2,4,6-Tribromophenol	0.254	0.249		-2.0	50.0
Hexachlorobenzene	0.275	0.284		3.3	50.0
Pentachlorophenol	0.170	0.180		5.9	50.0
Terphenyl-d14	1.353	1.155		-14.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141994.D
Acq On : 18 Mar 2025 14:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Mar 18 15:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	239989	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	894289	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	481669	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	753053	20.000	ng		0.00
76) Chrysene-d12	14.045	240	494707	20.000	ng		0.00
86) Perylene-d12	15.515	264	535575	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	1088701	75.712	ng		0.00
7) Phenol-d6	6.510	99	1339379	73.157	ng		0.00
23) Nitrobenzene-d5	7.445	82	1228373	77.299	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	480221	78.588	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	2430888	76.752	ng		0.00
79) Terphenyl-d14	12.986	244	2285237	68.295	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.658	88	229297	38.057	ng		98
3) Pyridine	3.428	79	555865	37.612	ng		97
4) n-Nitrosodimethylamine	3.381	42	262003	37.190	ng		97
6) Aniline	6.545	93	616639	34.142	ng		100
8) 2-Chlorophenol	6.669	128	596390	37.396	ng		99
9) Benzaldehyde	6.434	77	354098	34.582	ng		100
10) Phenol	6.522	94	698267	36.253	ng		98
11) bis(2-Chloroethyl)ether	6.616	93	524685	36.278	ng		99
12) 1,3-Dichlorobenzene	6.822	146	654548	38.016	ng		99
13) 1,4-Dichlorobenzene	6.898	146	664498	38.144	ng		99
14) 1,2-Dichlorobenzene	7.051	146	624373	38.052	ng		99
15) Benzyl Alcohol	7.022	79	535087	36.151	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	585125	33.511	ng		99
17) 2-Methylphenol	7.128	107	460305	36.301	ng		99
18) Hexachloroethane	7.393	117	248095	37.978	ng		97
19) n-Nitroso-di-n-propyla...	7.298	70	390501	33.194	ng		100
20) 3+4-Methylphenols	7.287	107	569983	35.093	ng	#	82
22) Acetophenone	7.293	105	795173	37.130	ng		99
24) Nitrobenzene	7.463	77	609535	38.584	ng		99
25) Isophorone	7.704	82	1015352	36.146	ng		99
26) 2-Nitrophenol	7.775	139	322094	41.542	ng		98
27) 2,4-Dimethylphenol	7.810	122	404431	37.881	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	640168	36.335	ng		99
29) 2,4-Dichlorophenol	8.016	162	506941	38.255	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	568900	38.955	ng		99
31) Naphthalene	8.187	128	1713566	37.302	ng		100
32) Benzoic acid	7.934	122	408684	43.547	ng		98
33) 4-Chloroaniline	8.234	127	564371	34.802	ng		98
34) Hexachlorobutadiene	8.298	225	385746	40.503	ng		99
35) Caprolactam	8.610	113	143835	35.601	ng		92
36) 4-Chloro-3-methylphenol	8.710	107	540509	36.564	ng		98
37) 2-Methylnaphthalene	8.875	142	1127917	36.733	ng		99
38) 1-Methylnaphthalene	8.975	142	1081329	36.494	ng		100
40) 1,2,4,5-Tetrachloroben...	9.039	216	587599	40.068	ng		98
41) Hexachlorocyclopentadiene	9.028	237	244958	42.681	ng		98
43) 2,4,6-Trichlorophenol	9.151	196	380905	39.744	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141994.D
Acq On : 18 Mar 2025 14:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Mar 18 15:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

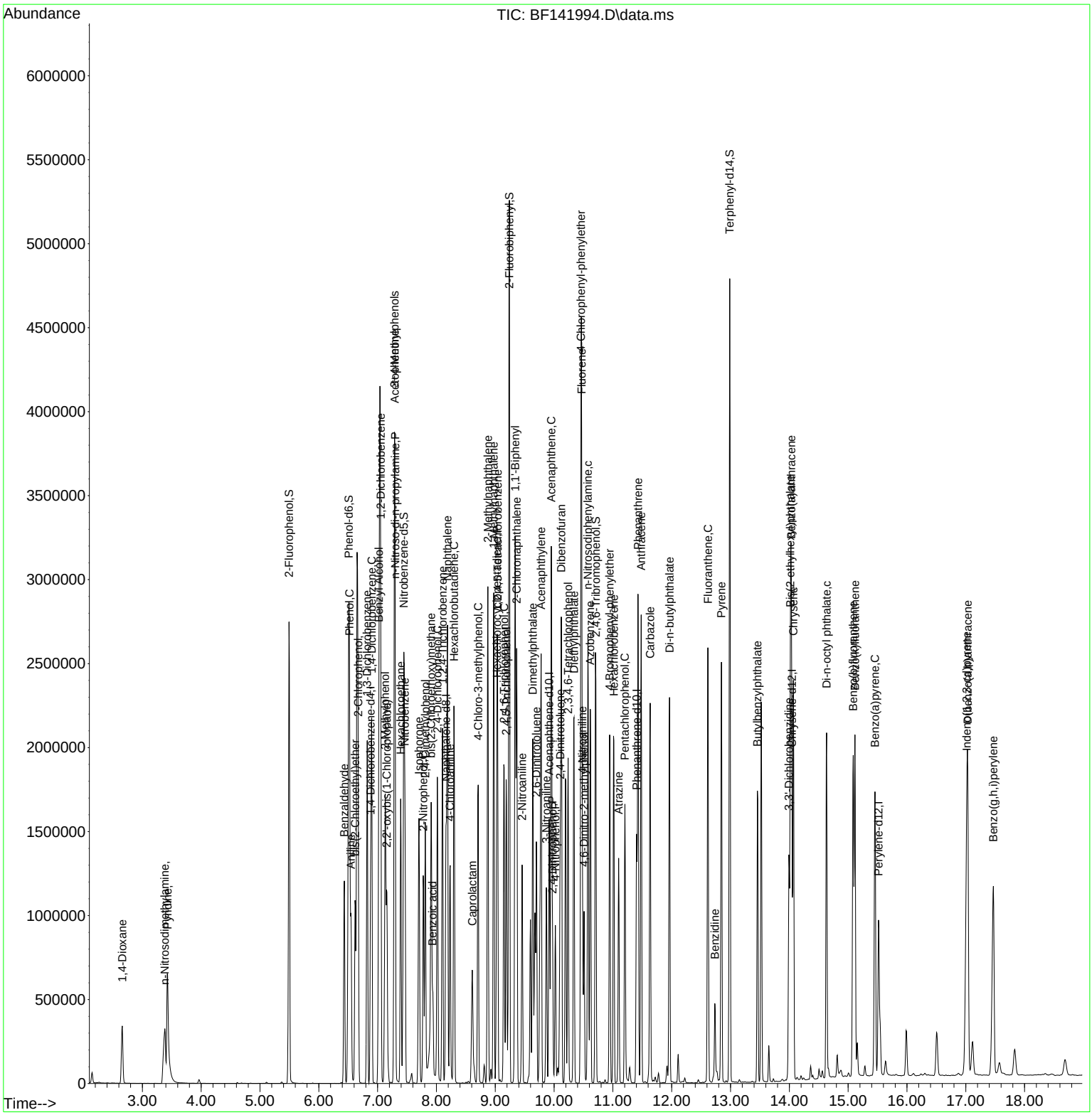
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	384465	39.608	ng		99
46) 1,1'-Biphenyl	9.339	154	1408867	38.496	ng		100
47) 2-Chloronaphthalene	9.363	162	1054546	38.659	ng		99
48) 2-Nitroaniline	9.457	65	298838	37.836	ng		97
49) Acenaphthylene	9.781	152	1540693	38.061	ng		100
50) Dimethylphthalate	9.639	163	1242811	36.846	ng		100
51) 2,6-Dinitrotoluene	9.698	165	269332	38.350	ng		96
52) Acenaphthene	9.951	154	1105127	38.848	ng		100
53) 3-Nitroaniline	9.869	138	262837	36.895	ng		99
54) 2,4-Dinitrophenol	9.975	184	159837	43.339	ng	#	48
55) Dibenzofuran	10.122	168	1517598	37.335	ng		99
56) 4-Nitrophenol	10.022	139	209611	39.017	ng		97
57) 2,4-Dinitrotoluene	10.104	165	350210	38.180	ng		97
58) Fluorene	10.469	166	1148628	36.643	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	343368	38.874	ng		97
60) Diethylphthalate	10.339	149	1213997	36.095	ng		99
61) 4-Chlorophenyl-phenyle...	10.457	204	610782	37.374	ng		98
62) 4-Nitroaniline	10.481	138	254062	36.632	ng		99
63) Azobenzene	10.616	77	1119869	35.814	ng		98
65) 4,6-Dinitro-2-methylph...	10.510	198	203861	45.411	ng		98
66) n-Nitrosodiphenylamine	10.575	169	969171	39.770	ng		99
67) 4-Bromophenyl-phenylether	10.945	248	384478	40.653	ng		99
68) Hexachlorobenzene	11.016	284	427155	41.181	ng		94
69) Atrazine	11.098	200	247359	33.111	ng		99
70) Pentachlorophenol	11.204	266	271416	42.469	ng		99
71) Phenanthrene	11.428	178	1567239	38.531	ng		99
72) Anthracene	11.480	178	1548481	37.946	ng		100
73) Carbazole	11.633	167	1293169	36.745	ng		100
74) Di-n-butylphthalate	11.963	149	1654382	35.428	ng		100
75) Fluoranthene	12.616	202	1487447	34.474	ng		99
77) Benzidine	12.733	184	268003	38.829	ng		99
78) Pyrene	12.845	202	1460125	34.121	ng		100
80) Butylbenzylphthalate	13.457	149	584716	34.910	ng		99
81) Benzo(a)anthracene	14.033	228	1243808	38.315	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	408051	43.496	ng		100
83) Chrysene	14.069	228	1140228	38.748	ng		100
84) Bis(2-ethylhexyl)phtha...	14.016	149	850191	36.815	ng		100
85) Di-n-octyl phthalate	14.633	149	1398724	43.530	ng		99
87) Indeno(1,2,3-cd)pyrene	17.015	276	1385704	39.997	ng		98
88) Benzo(b)fluoranthene	15.086	252	1250628	34.071	ng		100
89) Benzo(k)fluoranthene	15.116	252	1163553	37.042	ng		99
90) Benzo(a)pyrene	15.457	252	1085663	37.800	ng		99
91) Dibenzo(a,h)anthracene	17.033	278	1145269	40.065	ng		98
92) Benzo(g,h,i)perylene	17.468	276	1125885	39.857	ng		98

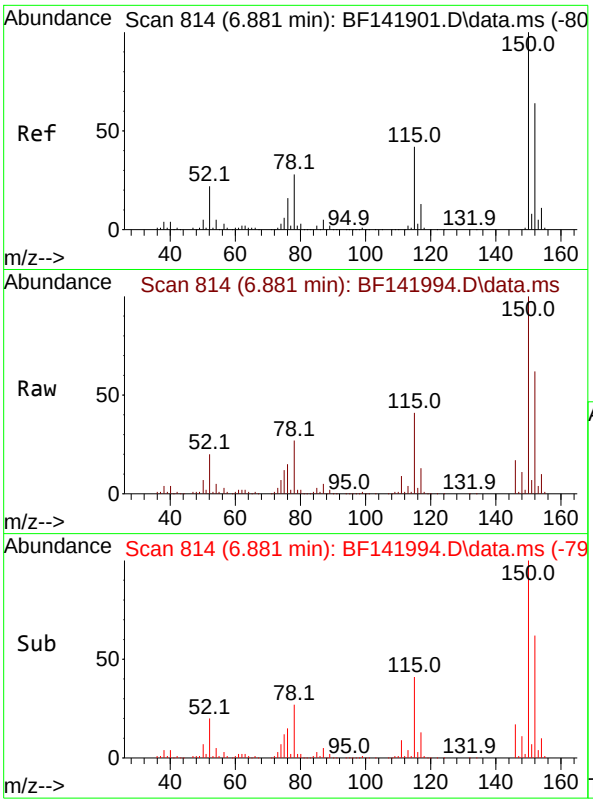
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141994.D
Acq On : 18 Mar 2025 14:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Mar 18 15:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration



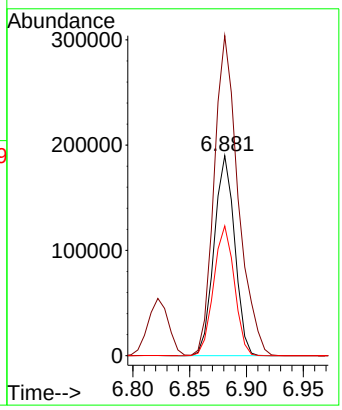


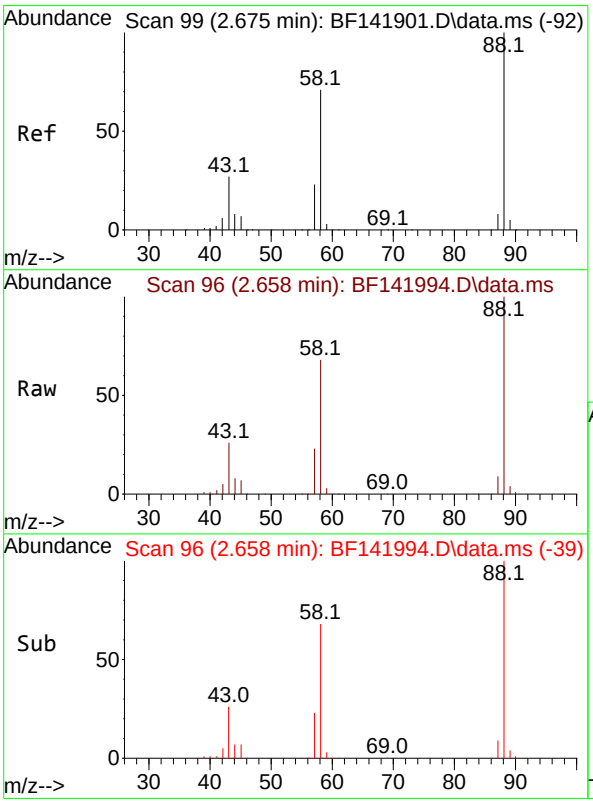
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 239989

Ion	Ratio	Lower	Upper
152	100		
150	160.0	127.4	191.2
115	64.9	51.9	77.9

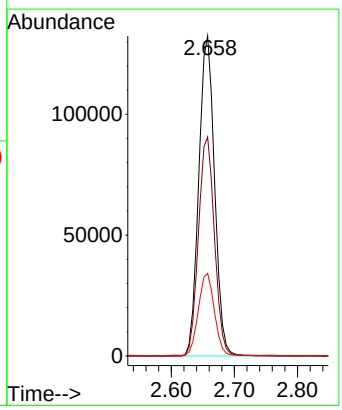


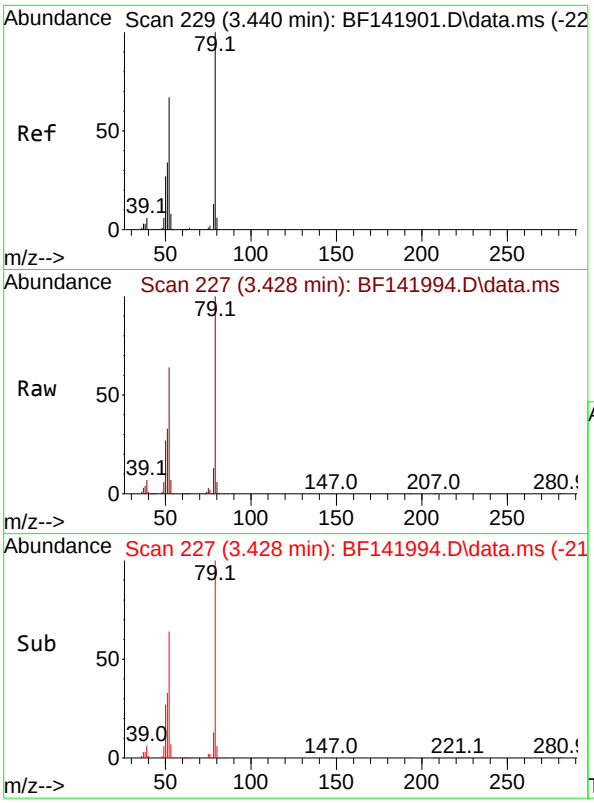


#2
1,4-Dioxane
Concen: 38.057 ng
RT: 2.658 min Scan# 96
Delta R.T. -0.017 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion: 88 Resp: 229297

Ion	Ratio	Lower	Upper
88	100		
58	69.3	57.4	86.2
43	26.7	21.5	32.3



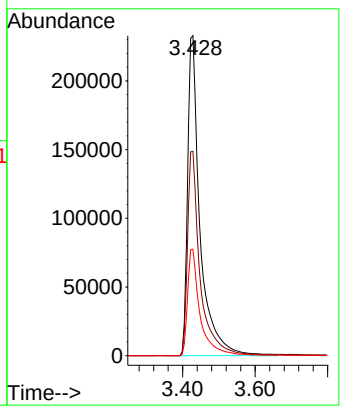


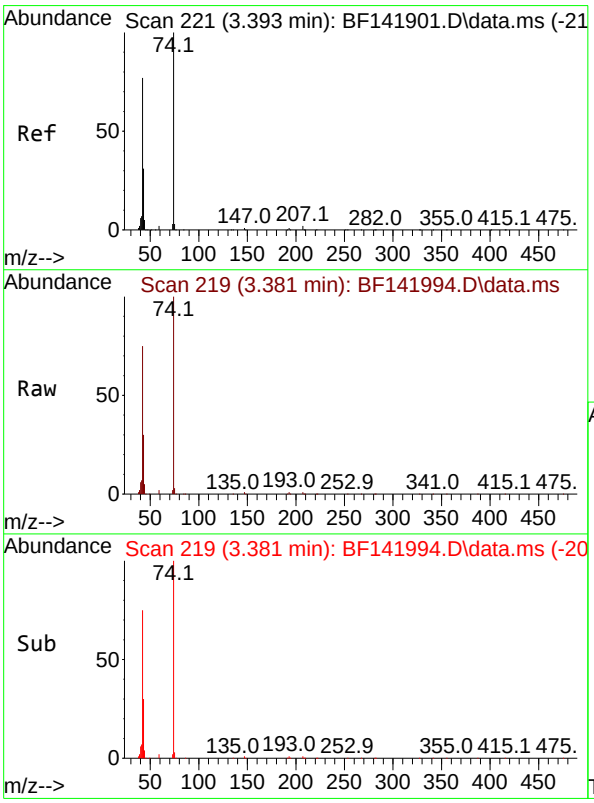
#3
Pyridine
Concen: 37.612 ng
RT: 3.428 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 555865

Ion	Ratio	Lower	Upper
79	100		
52	63.9	53.3	79.9
51	33.2	27.6	41.4

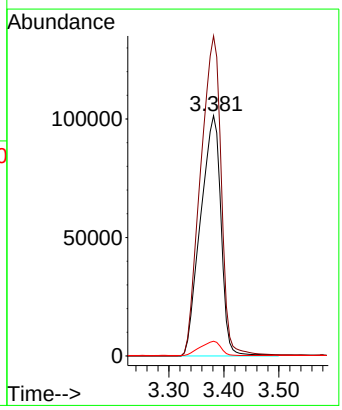


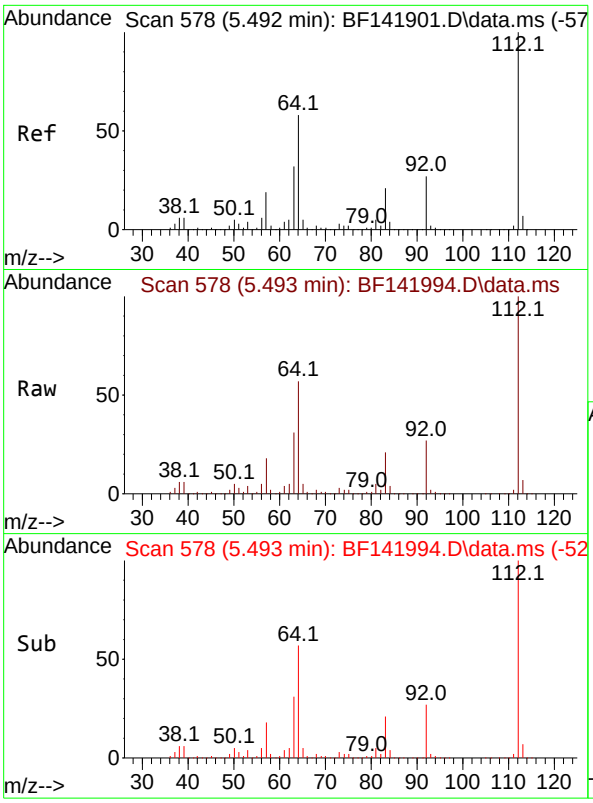


#4
n-Nitrosodimethylamine
Concen: 37.190 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.012 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion: 42 Resp: 262003

Ion	Ratio	Lower	Upper
42	100		
74	133.2	103.4	155.0
44	6.2	5.0	7.4



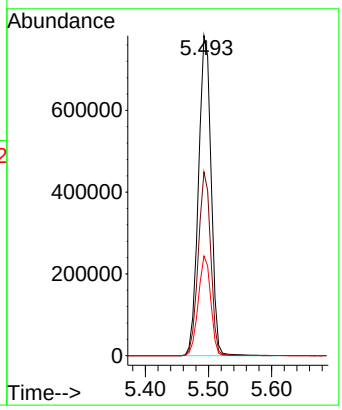


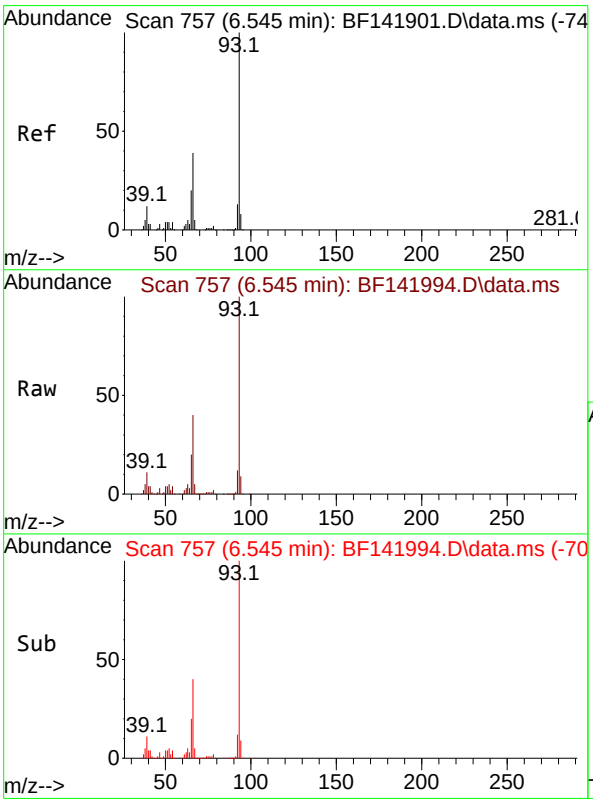
#5
2-Fluorophenol
Concen: 75.712 ng
RT: 5.493 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 1088701

Ion	Ratio	Lower	Upper
112	100		
64	57.4	46.5	69.7
63	31.2	25.4	38.2

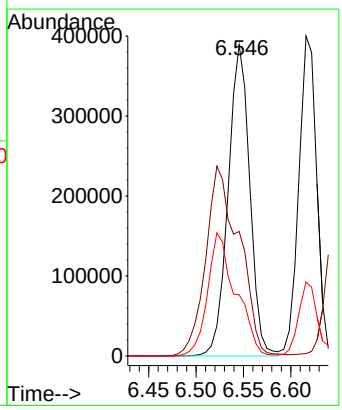


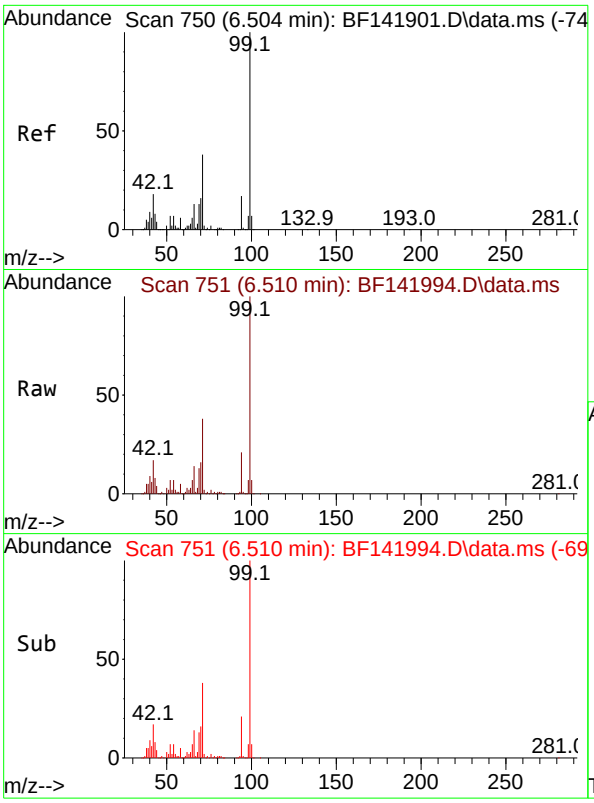


#6
Aniline
Concen: 34.142 ng
RT: 6.545 min Scan# 757
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion: 93 Resp: 616639

Ion	Ratio	Lower	Upper
93	100		
66	40.0	31.9	47.9
65	19.7	15.8	23.6



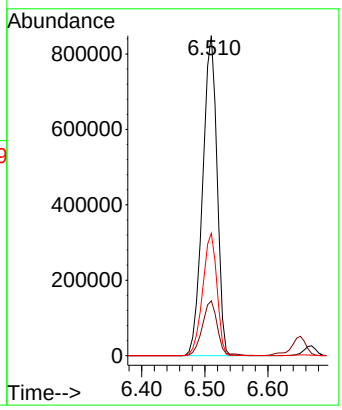


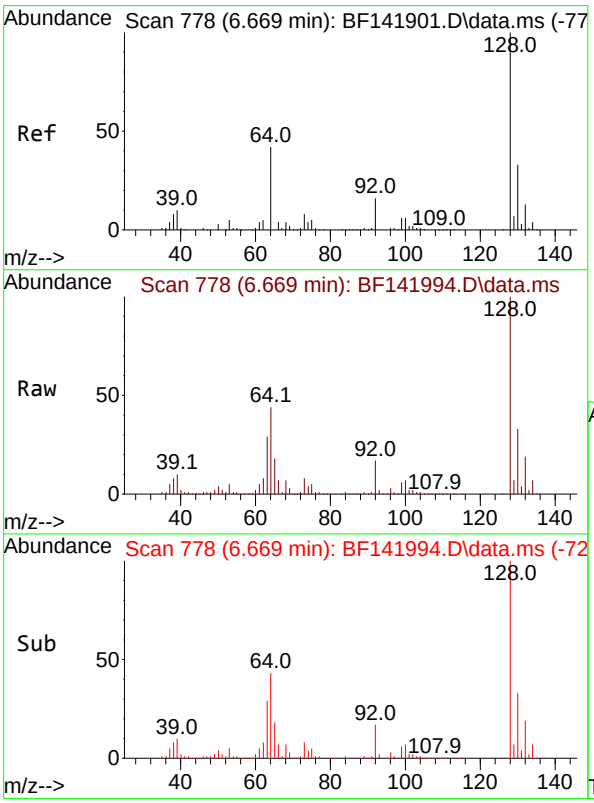
#7
Phenol-d6
Concen: 73.157 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 1339379

Ion	Ratio	Lower	Upper
99	100		
42	17.2	14.6	21.8
71	38.2	30.8	46.2

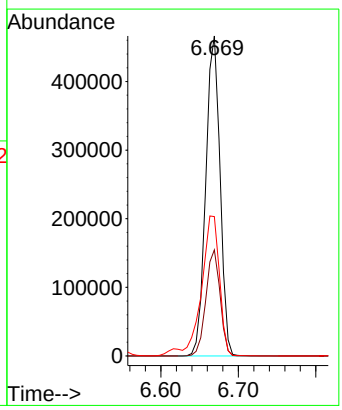


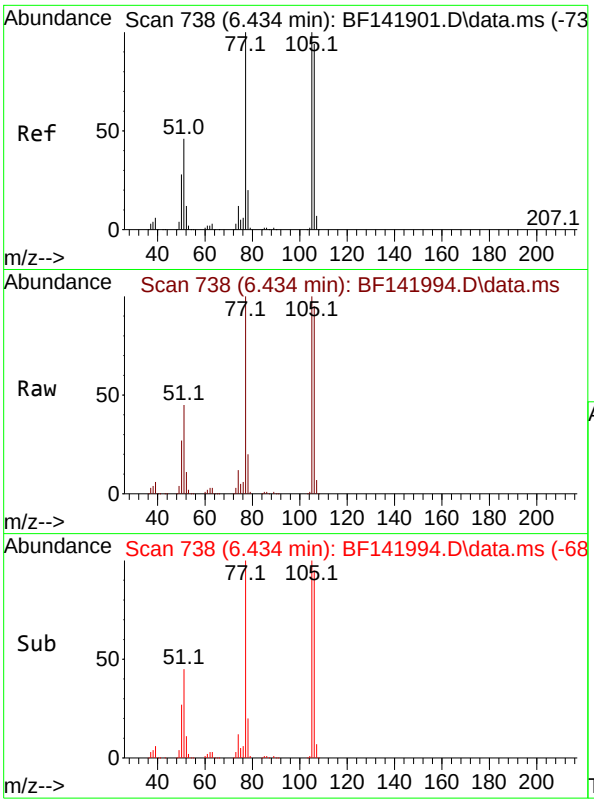


#8
2-Chlorophenol
Concen: 37.396 ng
RT: 6.669 min Scan# 778
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:128 Resp: 596390

Ion	Ratio	Lower	Upper
128	100		
130	33.2	12.8	52.8
64	43.5	24.4	64.4



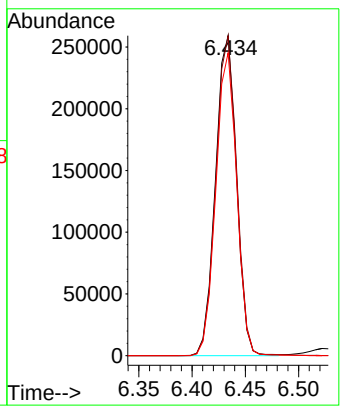


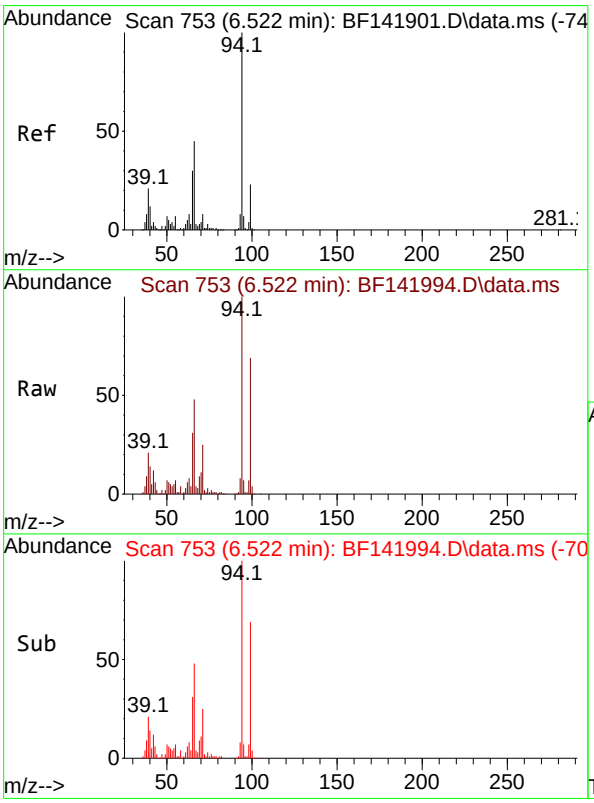
#9
Benzaldehyde
Concen: 34.582 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 354098

Ion	Ratio	Lower	Upper
77	100		
105	99.9	80.0	120.0
106	94.6	74.5	114.5

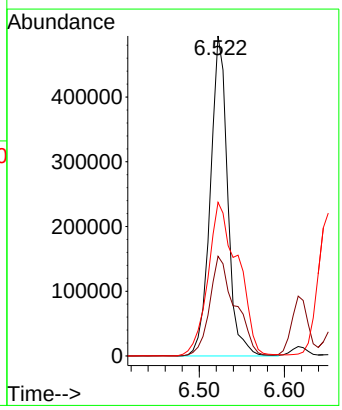


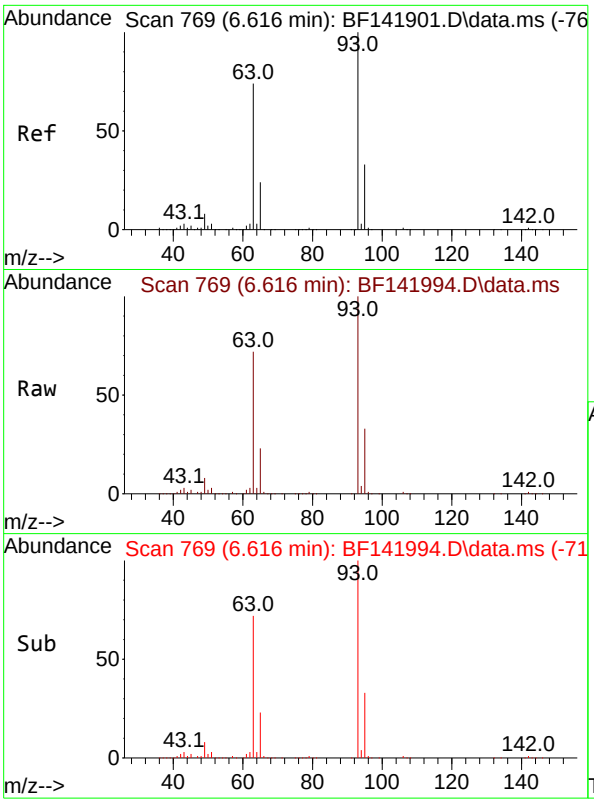


#10
Phenol
Concen: 36.253 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion: 94 Resp: 698267

Ion	Ratio	Lower	Upper
94	100		
65	31.1	10.5	50.5
66	48.0	25.8	65.8



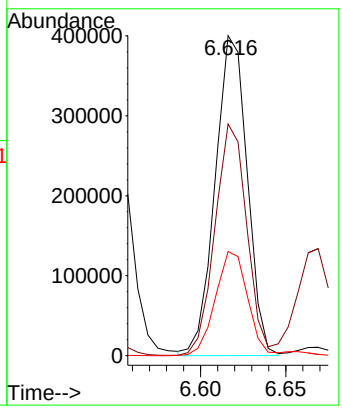


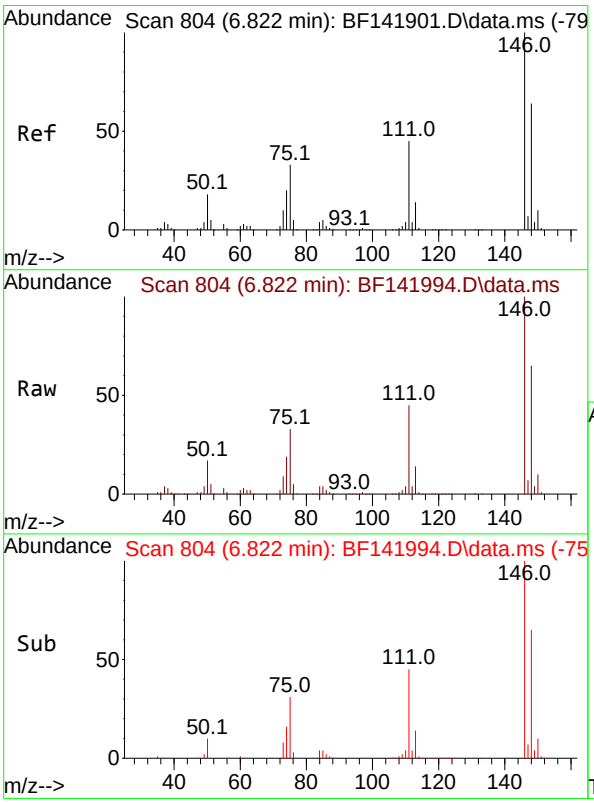
#11
bis(2-Chloroethyl)ether
Concen: 36.278 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 524685

Ion	Ratio	Lower	Upper
93	100		
63	72.4	53.0	93.0
95	32.6	12.9	52.9

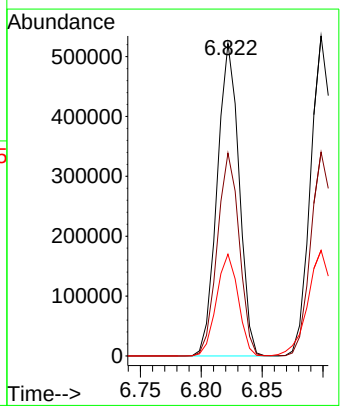


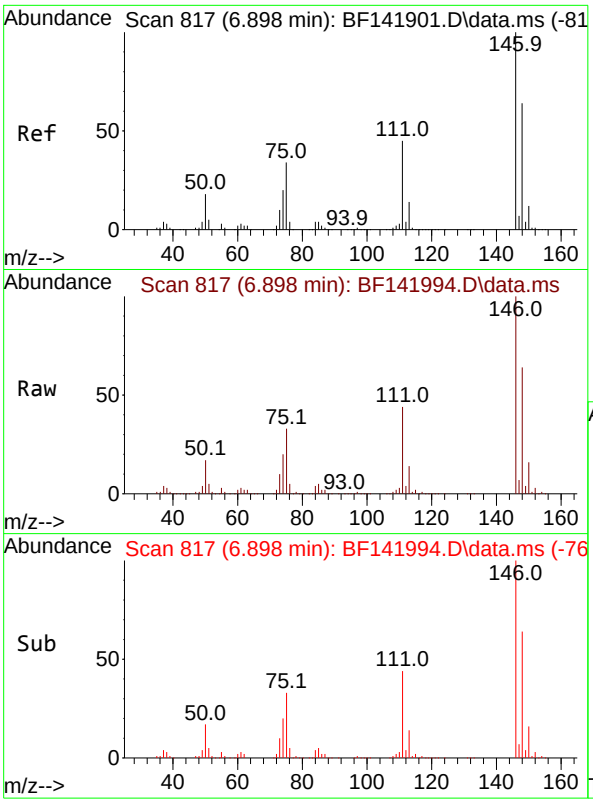


#12
1,3-Dichlorobenzene
Concen: 38.016 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:146 Resp: 654548

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.3	76.9
75	32.5	26.6	40.0



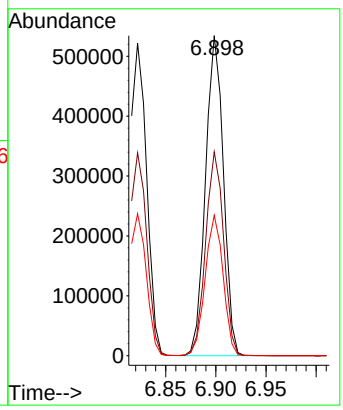


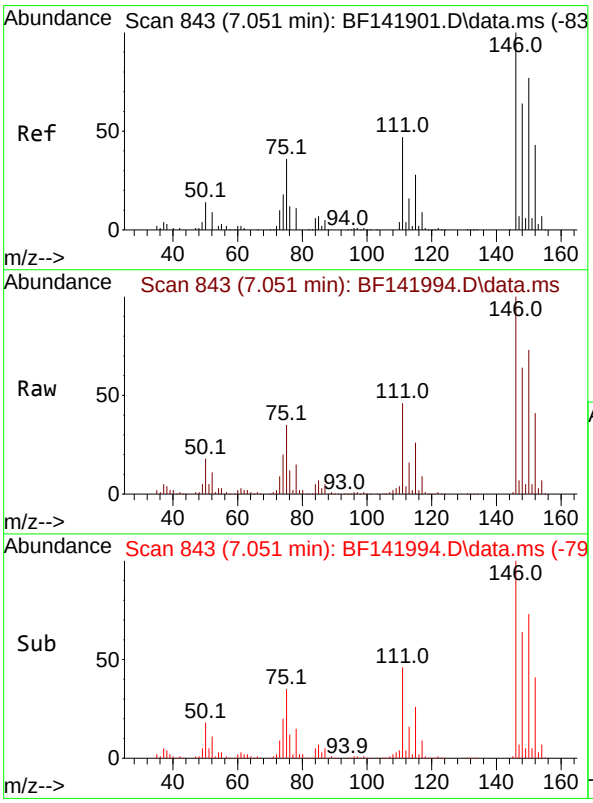
#13
1,4-Dichlorobenzene
Concen: 38.144 ng
RT: 6.898 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 664498

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.0	76.6
111	43.9	35.7	53.5

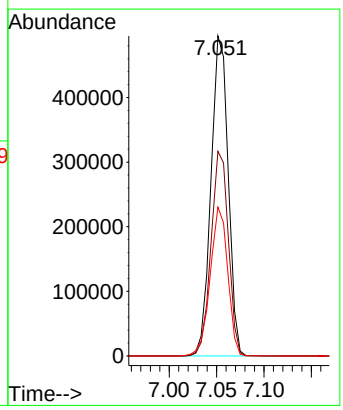


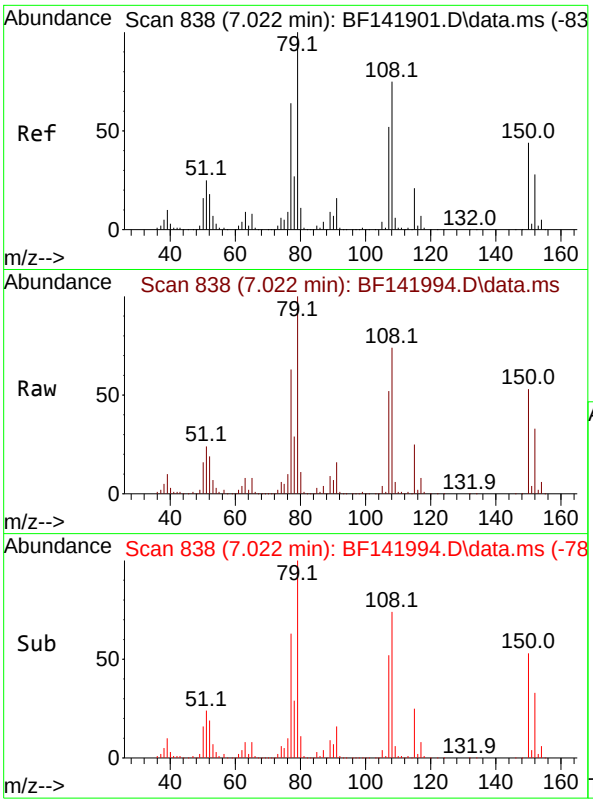


#14
1,2-Dichlorobenzene
Concen: 38.052 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:146 Resp: 624373

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.8	76.2
111	46.5	38.0	57.0



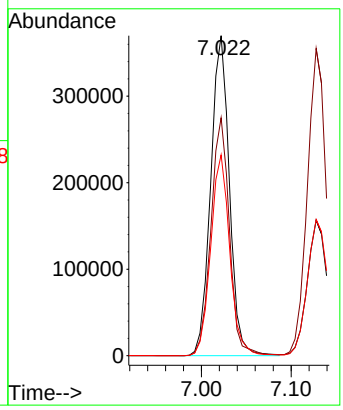


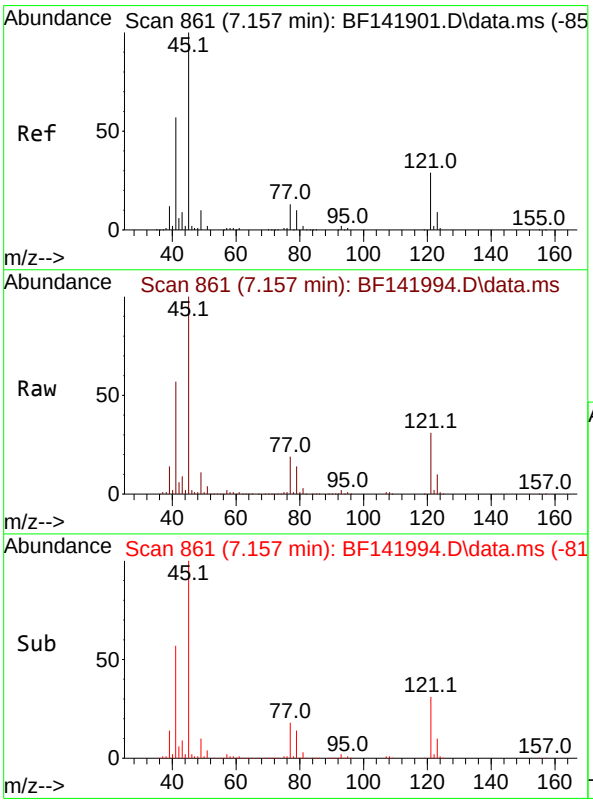
#15
Benzyl Alcohol
Concen: 36.151 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 535087

Ion	Ratio	Lower	Upper
79	100		
108	74.4	59.7	89.5
77	62.8	51.0	76.6

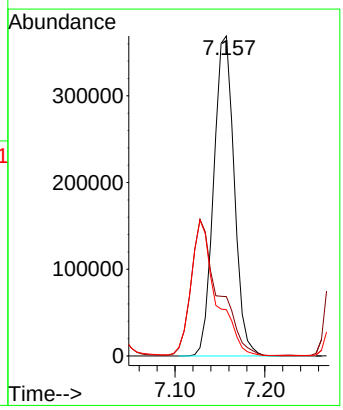


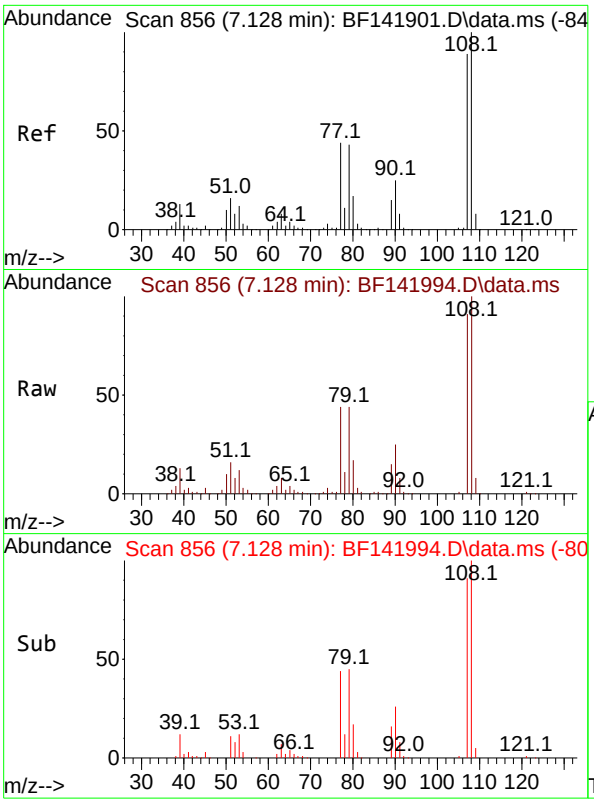


#16
2,2'-oxybis(1-Chloropropane)
Concen: 33.511 ng
RT: 7.157 min Scan# 861
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion: 45 Resp: 585125

Ion	Ratio	Lower	Upper
45	100		
77	18.6	0.0	37.8
79	14.5	0.0	34.2



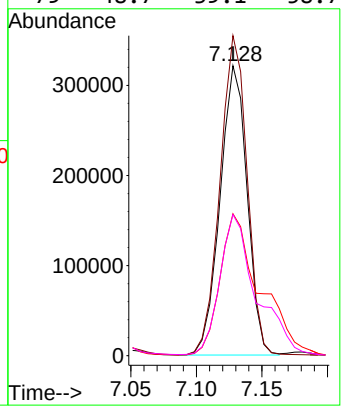


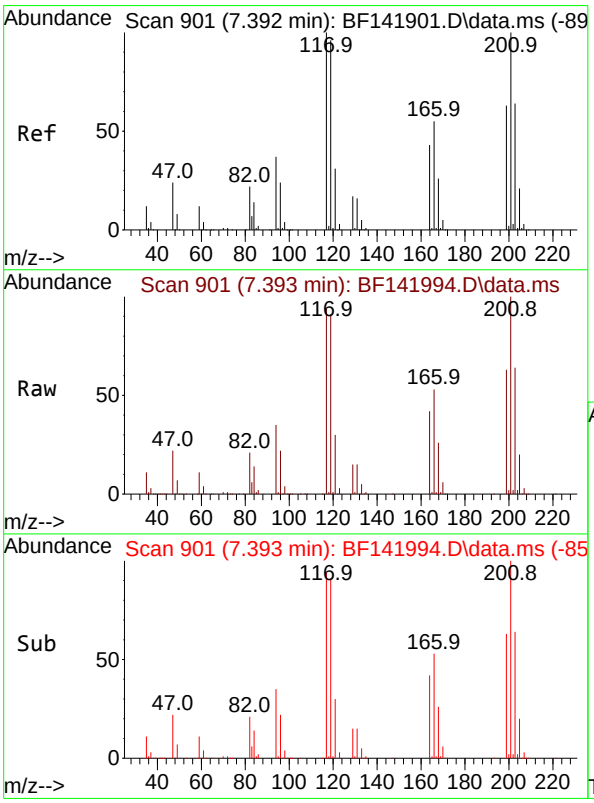
#17
2-Methylphenol
Concen: 36.301 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 460305

Ion	Ratio	Lower	Upper
107	100		
108	110.4	90.2	135.2
77	49.0	39.6	59.4
79	48.7	39.1	58.7

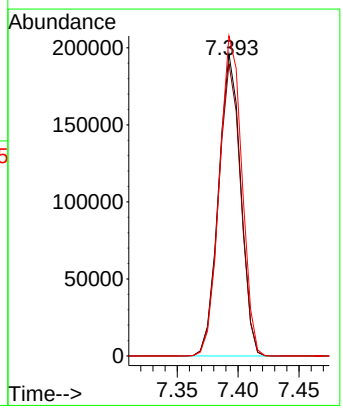


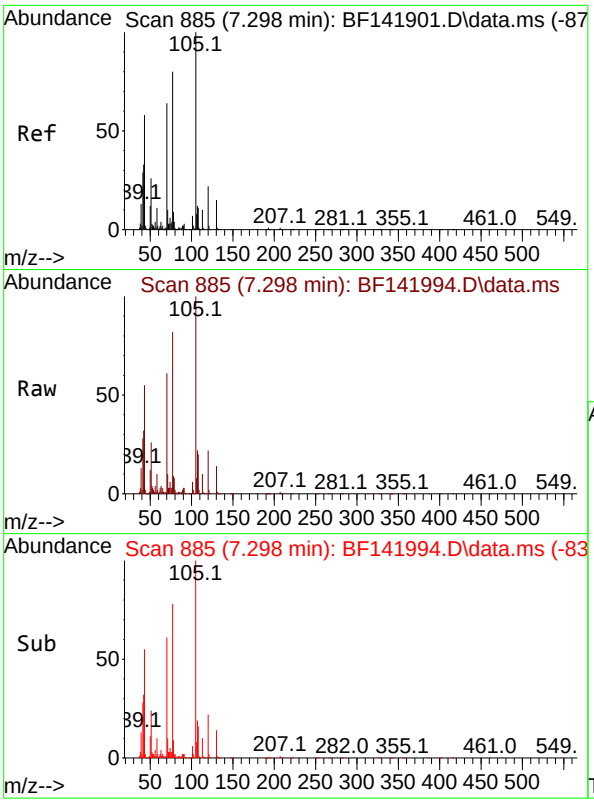


#18
Hexachloroethane
Concen: 37.978 ng
RT: 7.393 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:117 Resp: 248095

Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.9	115.3
201	105.9	79.9	119.9



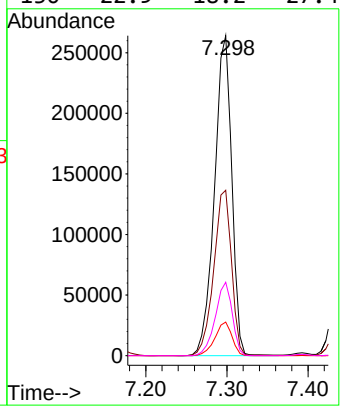


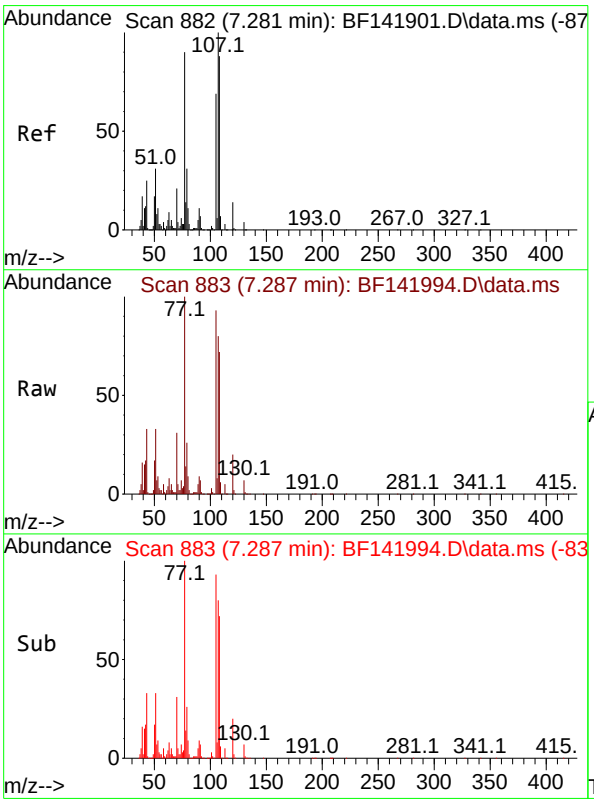
#19
n-Nitroso-di-n-propylamine
Concen: 33.194 ng
RT: 7.298 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 390501

Ion	Ratio	Lower	Upper
70	100		
42	51.7	41.4	62.0
101	10.5	8.2	12.2
130	22.9	18.2	27.4

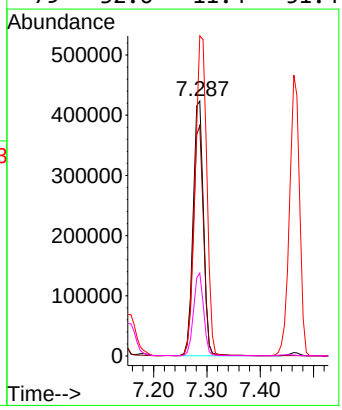


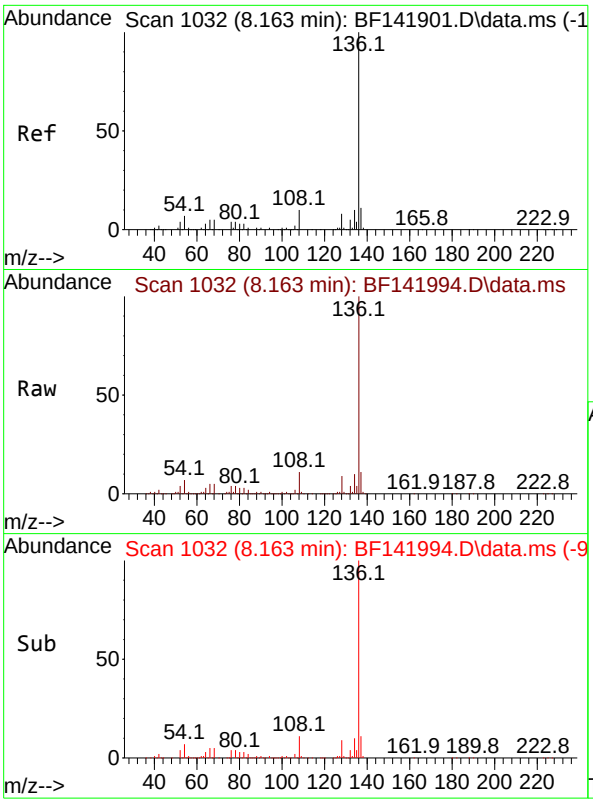


#20
3+4-Methylphenols
Concen: 35.093 ng
RT: 7.287 min Scan# 883
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:107 Resp: 569983

Ion	Ratio	Lower	Upper
107	100		
108	90.4	68.4	108.4
77	125.6	69.7	109.7#
79	32.6	11.4	51.4



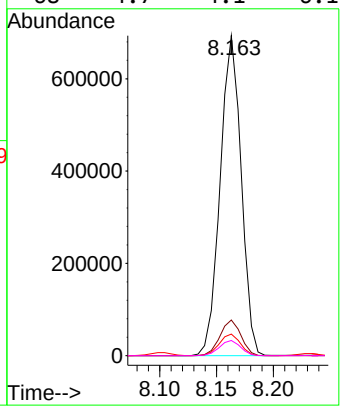


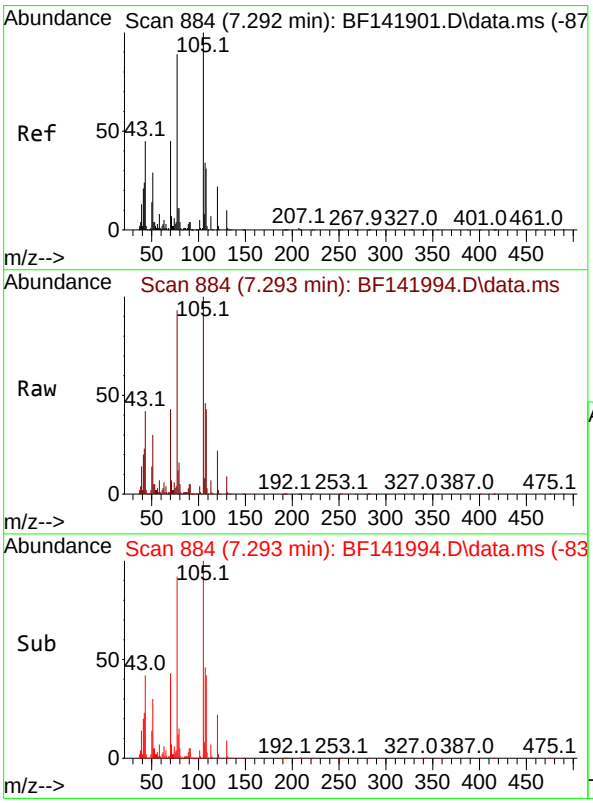
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 894289

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	6.7	5.8	8.8
68	4.7	4.1	6.1

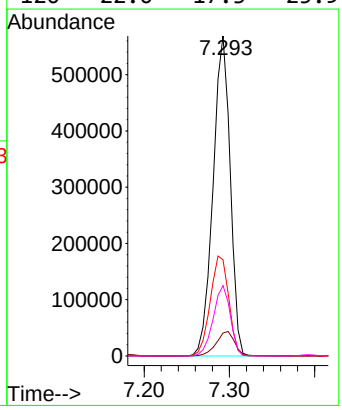


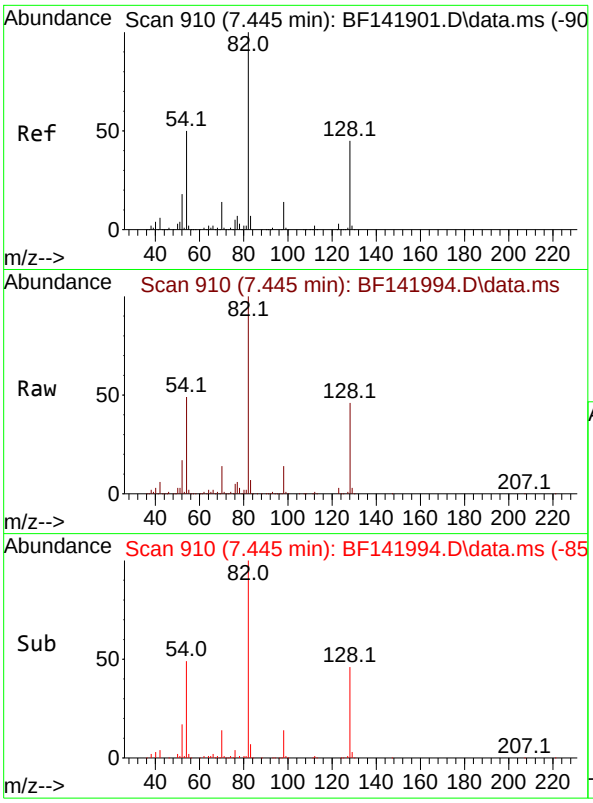


#22
Acetophenone
Concen: 37.130 ng
RT: 7.293 min Scan# 884
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:105 Resp: 795173

Ion	Ratio	Lower	Upper
105	100		
71	7.2	5.8	8.8
51	30.1	23.4	35.0
120	22.0	17.3	25.9



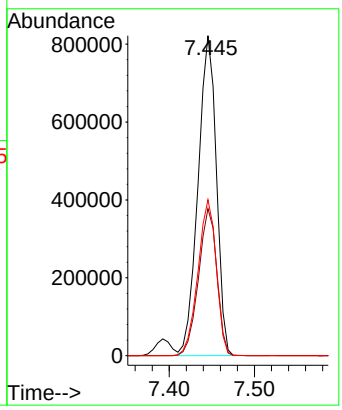


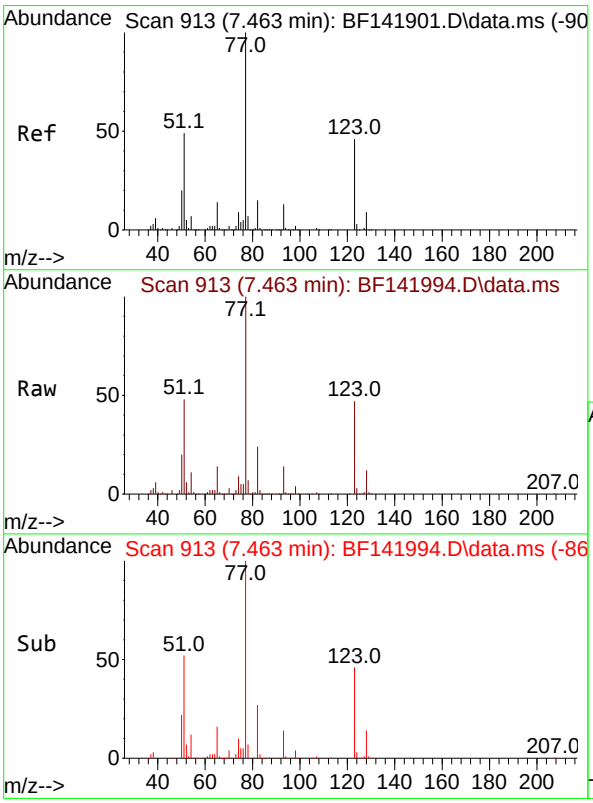
#23
Nitrobenzene-d5
Concen: 77.299 ng
RT: 7.445 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 1228373

Ion	Ratio	Lower	Upper
82	100		
128	46.0	36.0	54.0
54	48.7	39.6	59.4

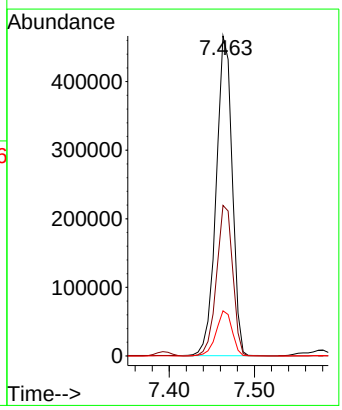


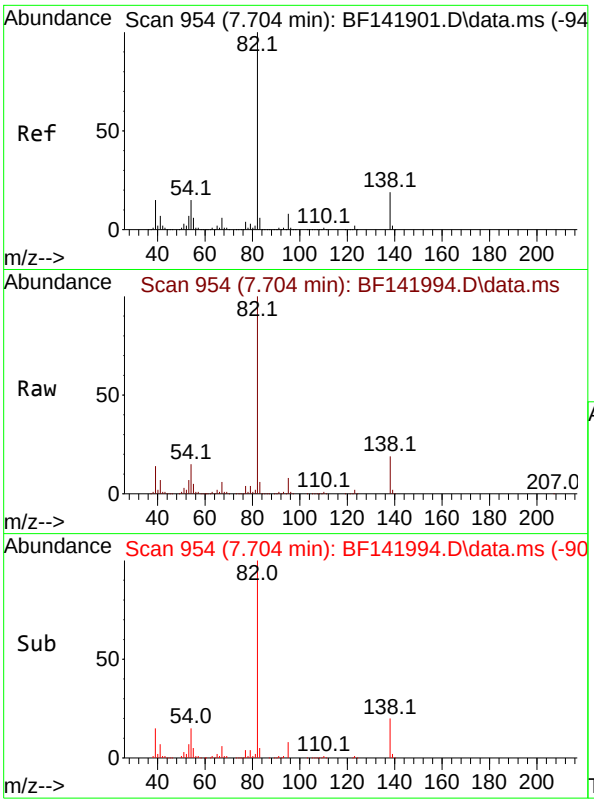


#24
Nitrobenzene
Concen: 38.584 ng
RT: 7.463 min Scan# 913
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion: 77 Resp: 609535

Ion	Ratio	Lower	Upper
77	100		
123	47.1	37.0	55.4
65	14.1	11.3	16.9



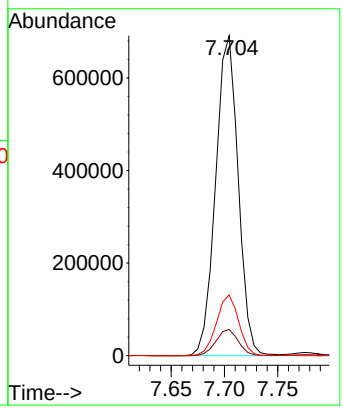


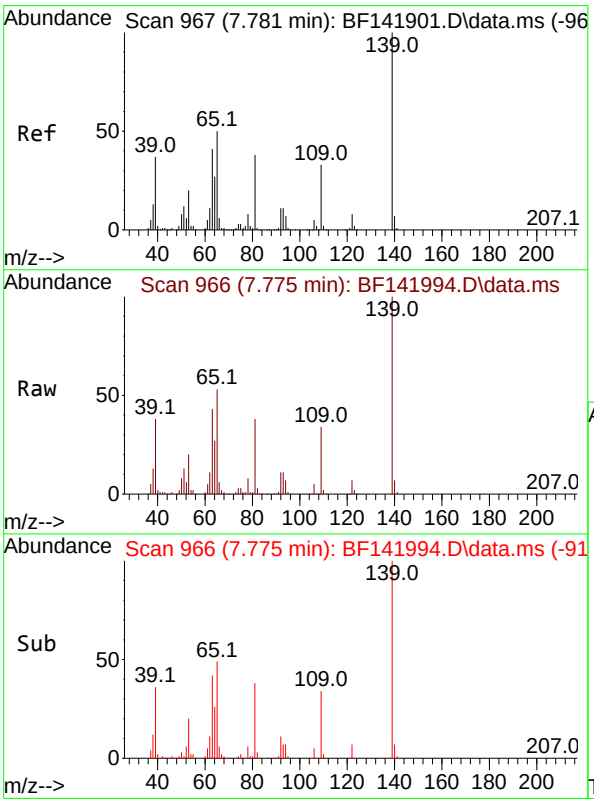
#25
Isophorone
Concen: 36.146 ng
RT: 7.704 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 1015352

Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.4	9.6
138	19.0	14.9	22.3

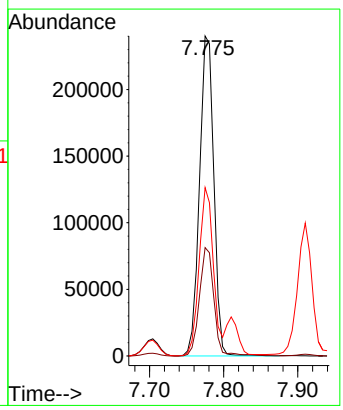


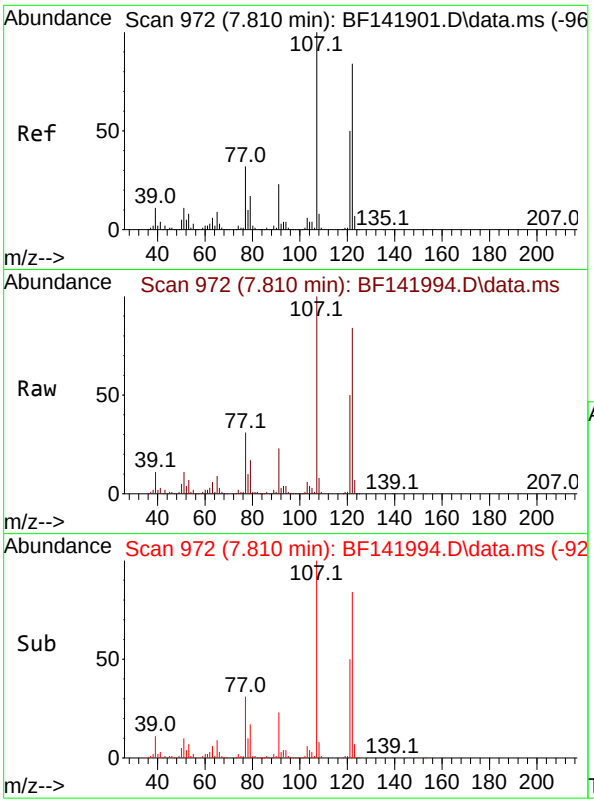


#26
2-Nitrophenol
Concen: 41.542 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:139 Resp: 322094

Ion	Ratio	Lower	Upper
139	100		
109	33.9	26.5	39.7
65	52.6	40.3	60.5



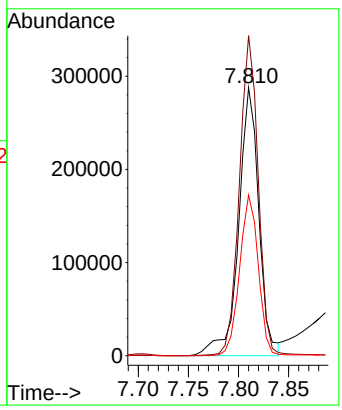


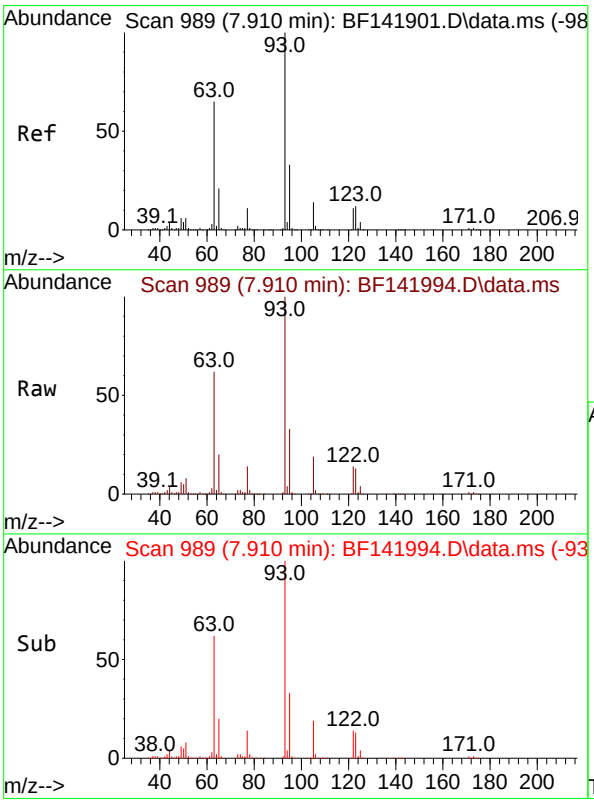
#27
2,4-Dimethylphenol
Concen: 37.881 ng
RT: 7.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 404431

Ion	Ratio	Lower	Upper
122	100		
107	119.3	94.8	142.2
121	59.9	47.8	71.6

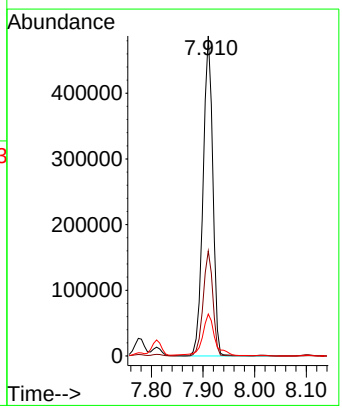


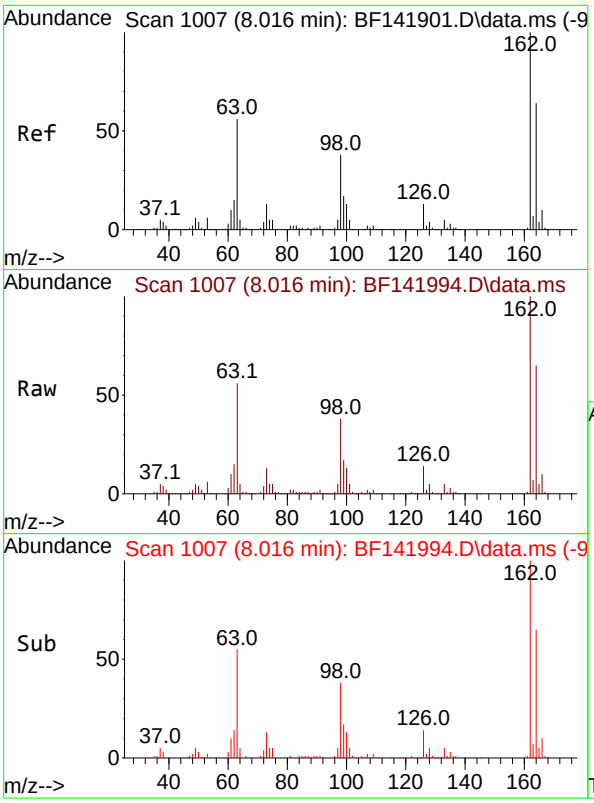


#28
bis(2-Chloroethoxy)methane
Concen: 36.335 ng
RT: 7.910 min Scan# 989
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion: 93 Resp: 640168

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.6	40.0
123	13.1	10.2	15.4



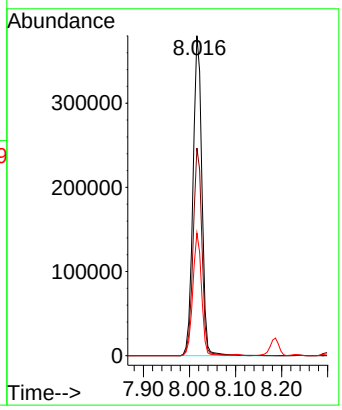


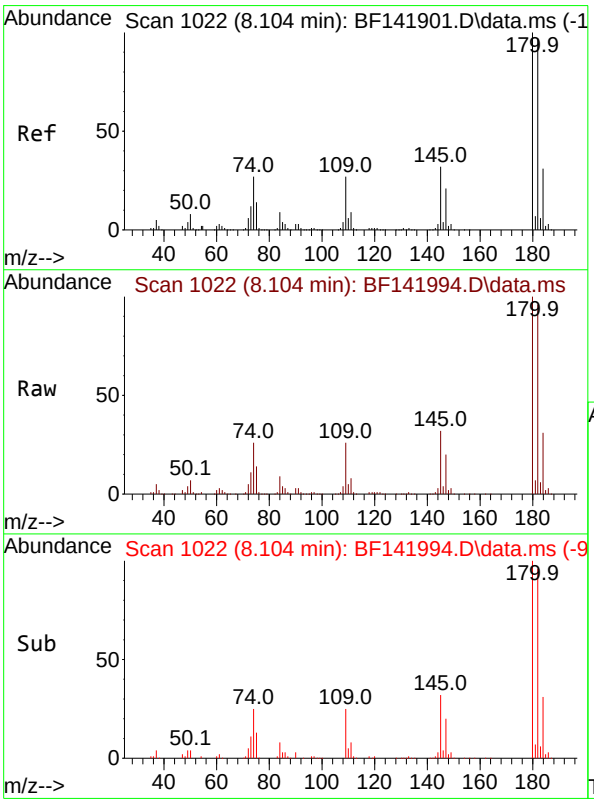
#29
2,4-Dichlorophenol
Concen: 38.255 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 506941

Ion	Ratio	Lower	Upper
162	100		
164	64.9	43.8	83.8
98	38.4	18.1	58.1

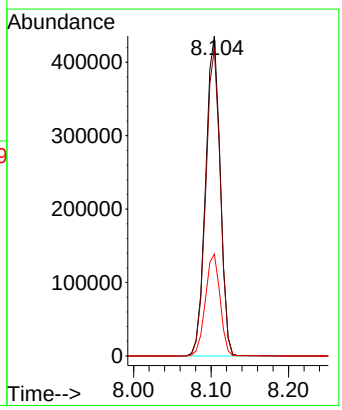


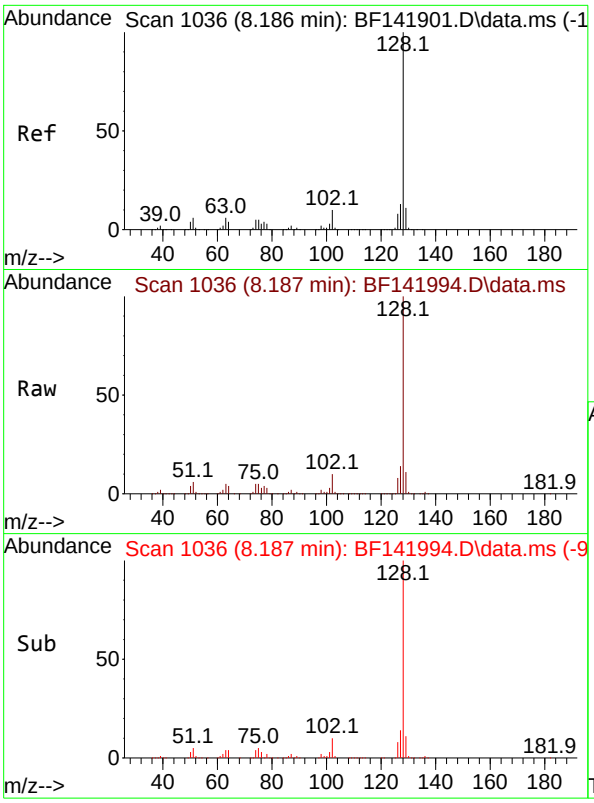


#30
1,2,4-Trichlorobenzene
Concen: 38.955 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:180 Resp: 568900

Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.5	116.3
145	31.9	25.8	38.6



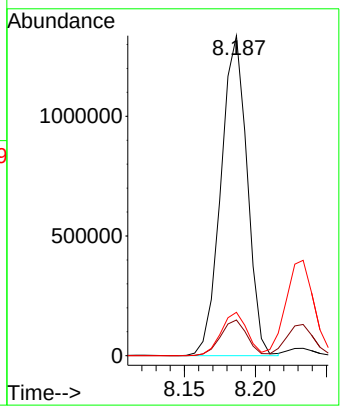


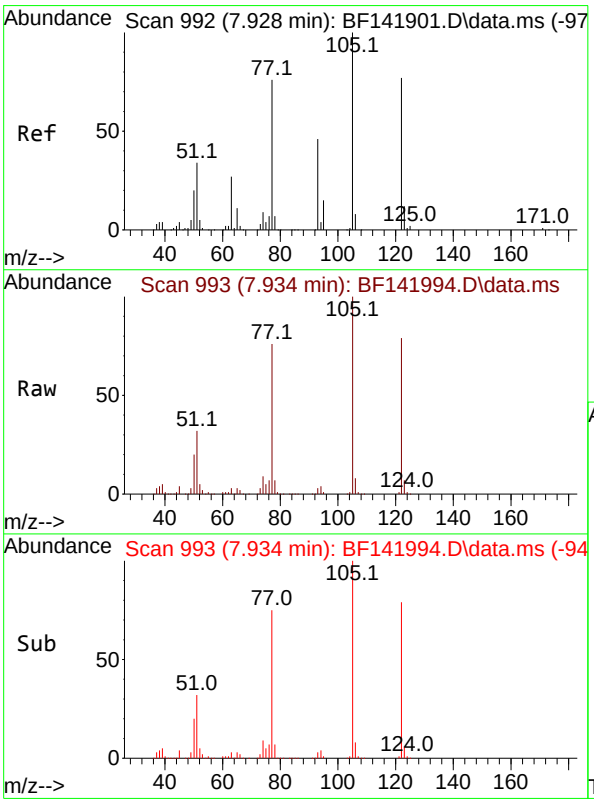
#31
Naphthalene
Concen: 37.302 ng
RT: 8.187 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 1713566

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.6	10.8	16.2

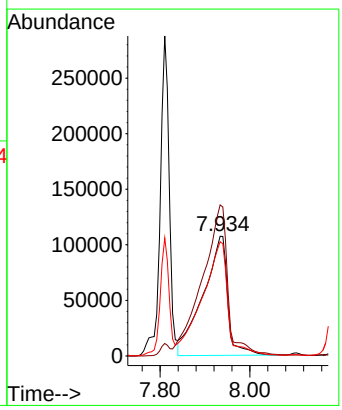


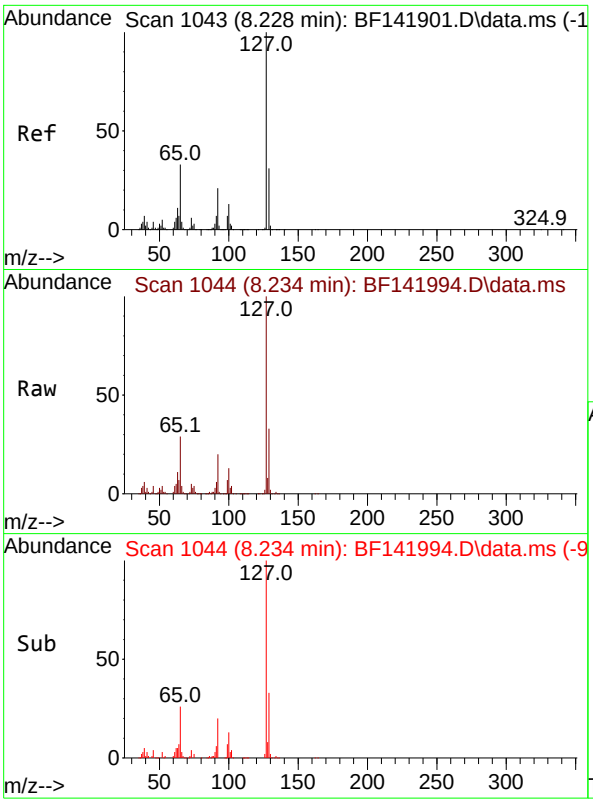


#32
Benzoic acid
Concen: 43.547 ng
RT: 7.934 min Scan# 993
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:122 Resp: 408684

Ion	Ratio	Lower	Upper
122	100		
105	126.2	107.9	147.9
77	95.4	79.0	119.0



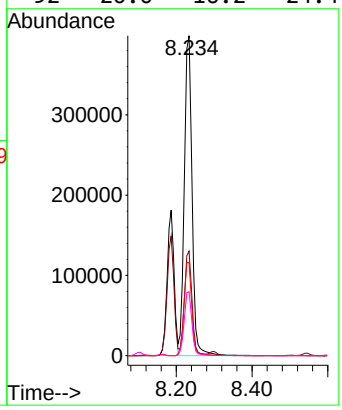


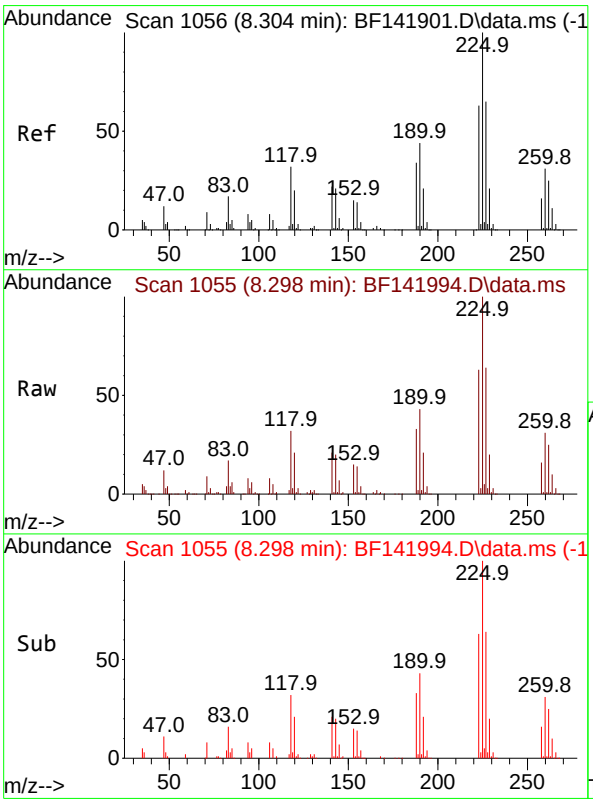
#33
4-Chloroaniline
Concen: 34.802 ng
RT: 8.234 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 564371

Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.2	39.4
65	29.0	25.4	38.2
92	20.0	16.2	24.4

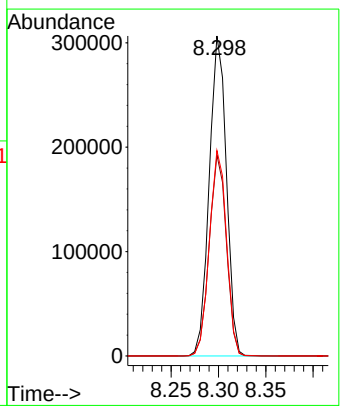


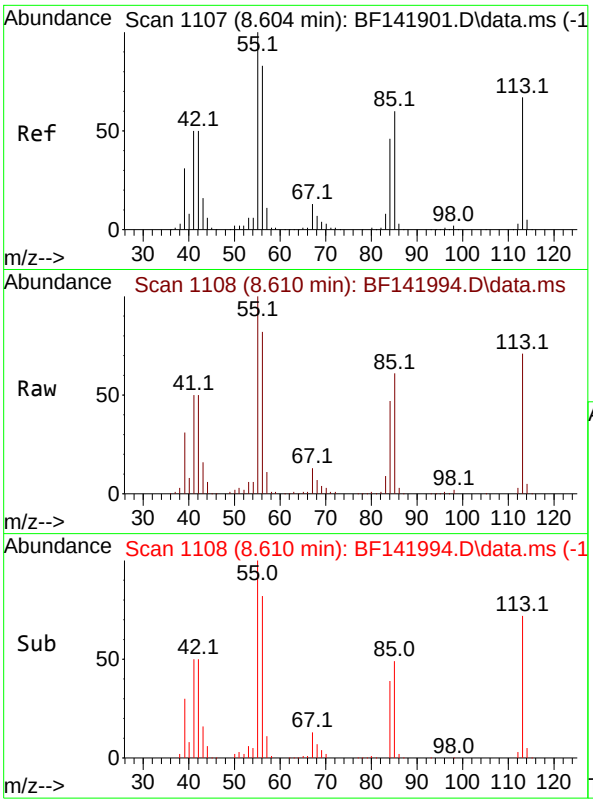


#34
Hexachlorobutadiene
Concen: 40.503 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:225 Resp: 385746

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.6	75.8
227	64.2	52.2	78.2



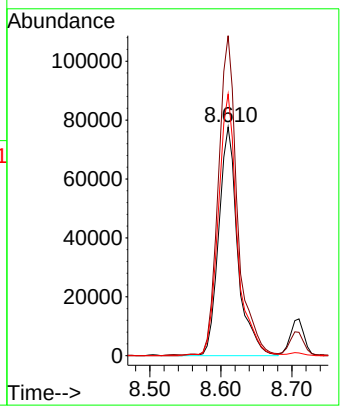


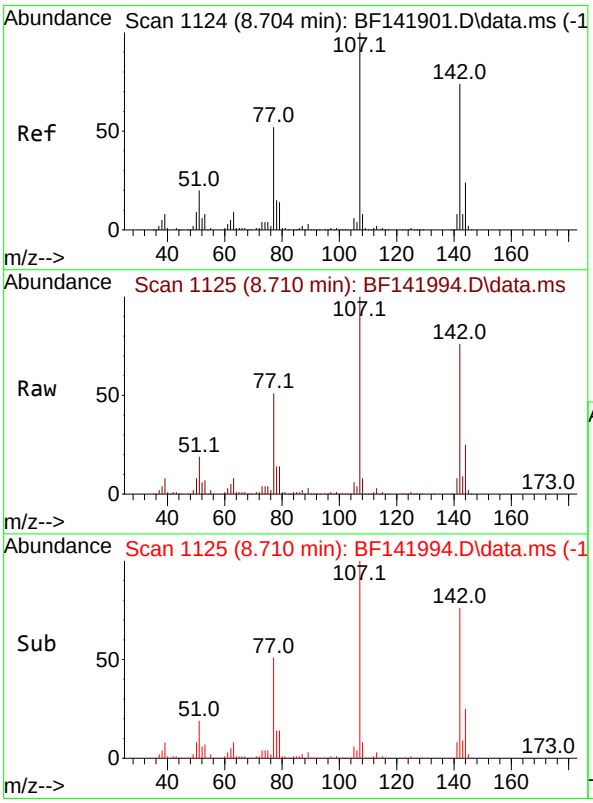
#35
Caprolactam
Concen: 35.601 ng
RT: 8.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 143835

Ion	Ratio	Lower	Upper
113	100		
55	139.9	129.6	169.6
56	114.4	104.0	144.0

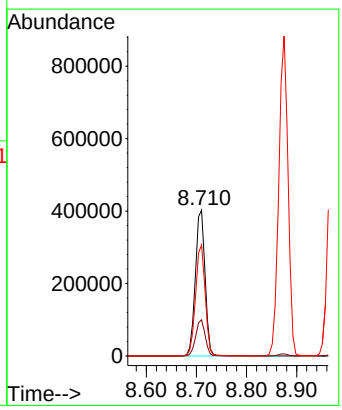


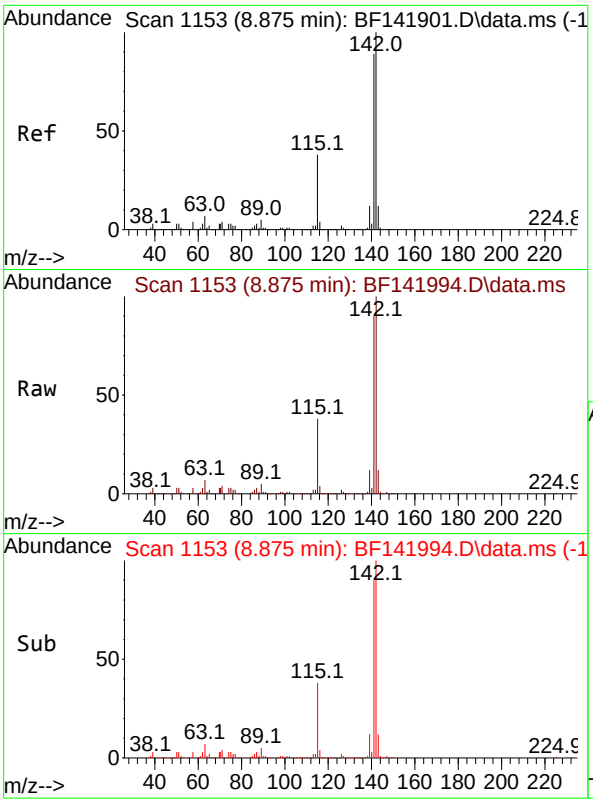


#36
4-Chloro-3-methylphenol
Concen: 36.564 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:107 Resp: 540509

Ion	Ratio	Lower	Upper
107	100		
144	24.8	19.0	28.6
142	76.1	59.2	88.8



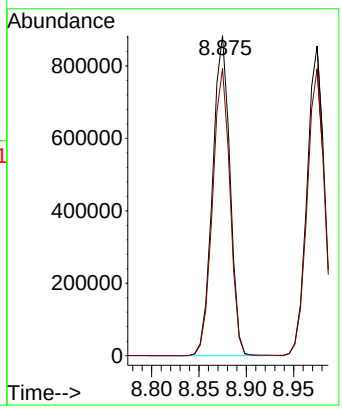


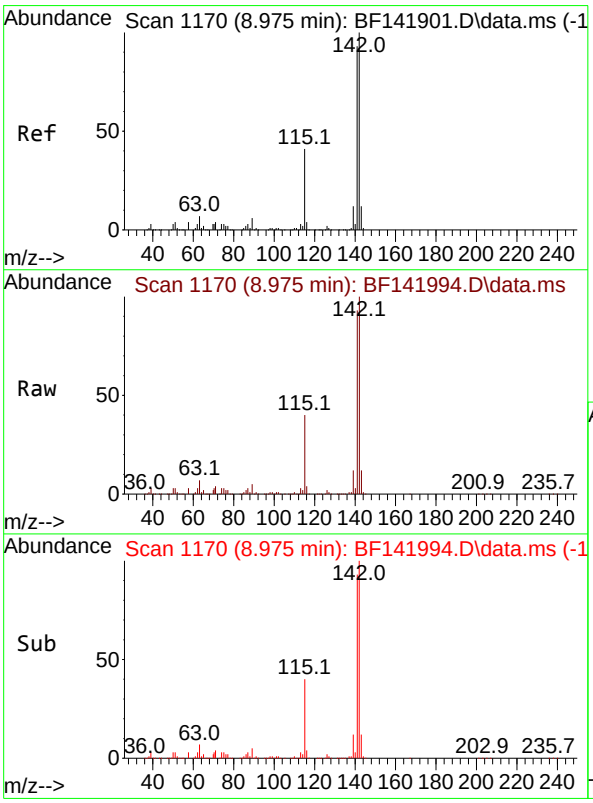
#37
2-Methylnaphthalene
Concen: 36.733 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 1127917

Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.2	106.8

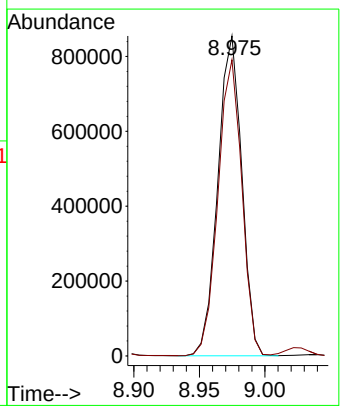


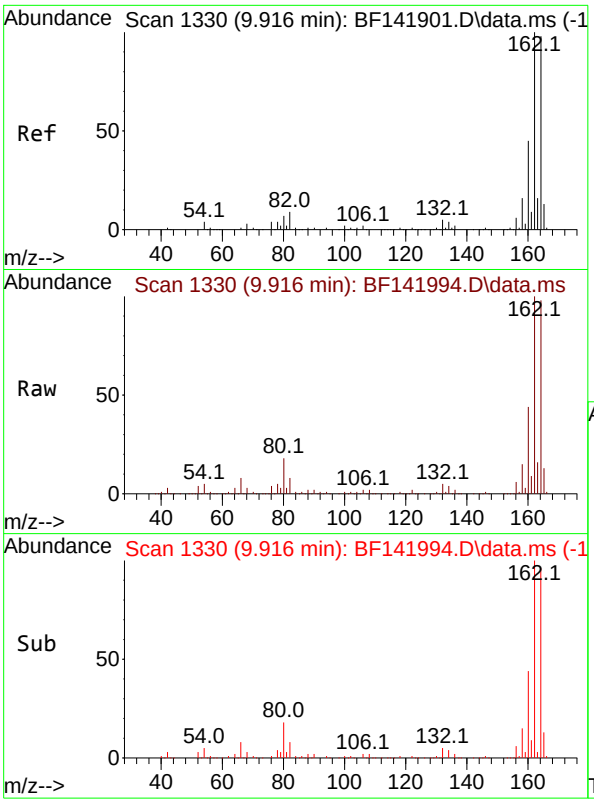


#38
1-Methylnaphthalene
Concen: 36.494 ng
RT: 8.975 min Scan# 1170
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:142 Resp: 1081329

Ion	Ratio	Lower	Upper
142	100		
141	92.6	74.2	111.4



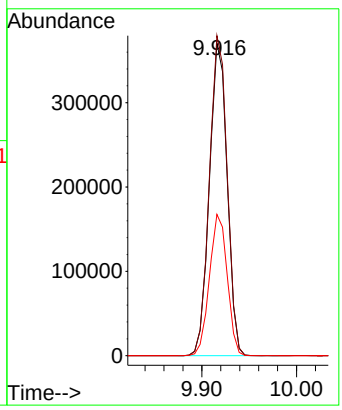


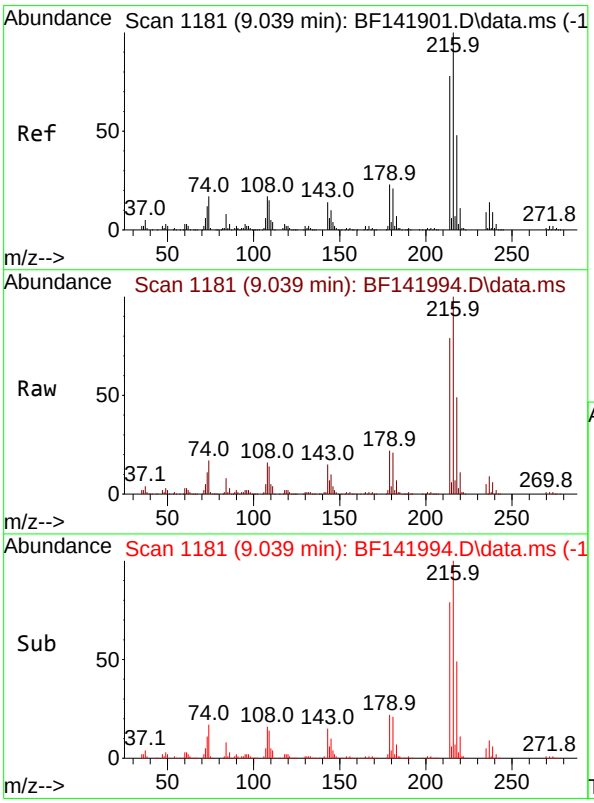
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 481669

Ion	Ratio	Lower	Upper
164	100		
162	102.4	81.8	122.6
160	45.2	36.7	55.1

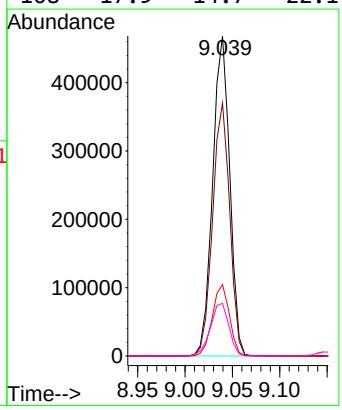


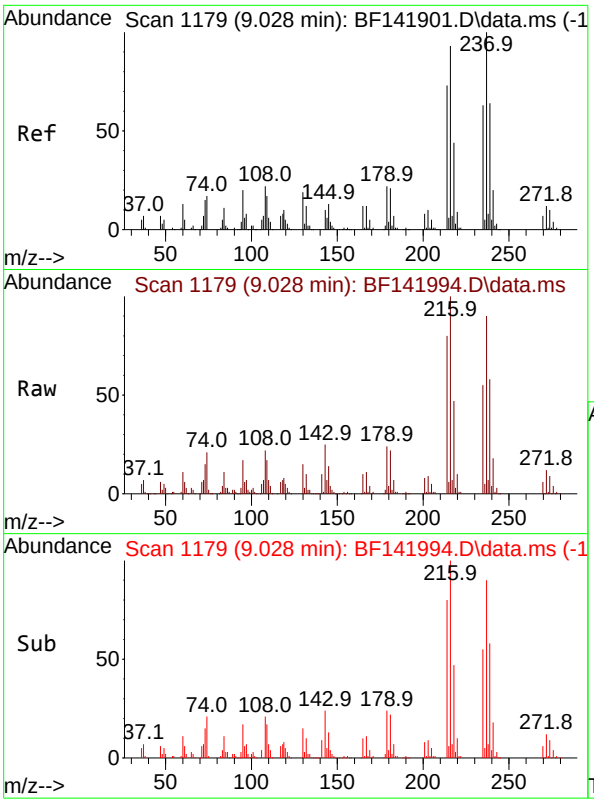


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.068 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:216 Resp: 587599

Ion	Ratio	Lower	Upper
216	100		
214	79.2	61.9	92.9
179	22.3	18.1	27.1
108	17.9	14.7	22.1



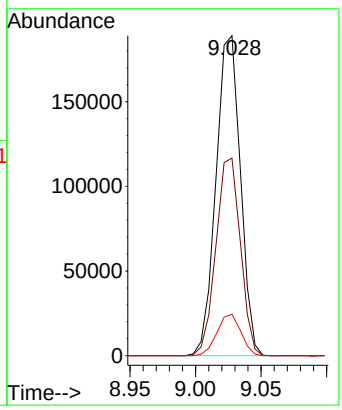


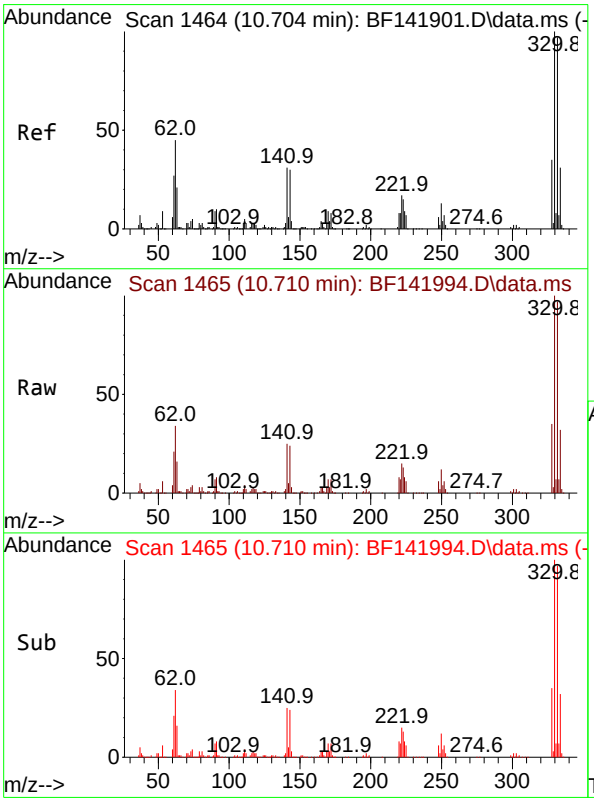
#41
Hexachlorocyclopentadiene
Concen: 42.681 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 244958

Ion	Ratio	Lower	Upper
237	100		
235	61.7	43.1	83.1
272	12.9	0.0	32.0

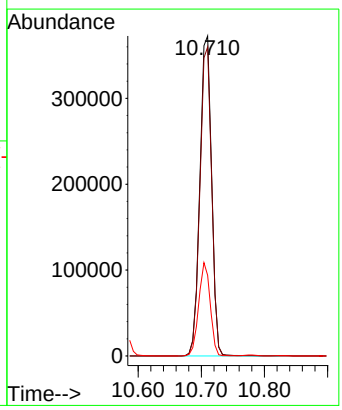


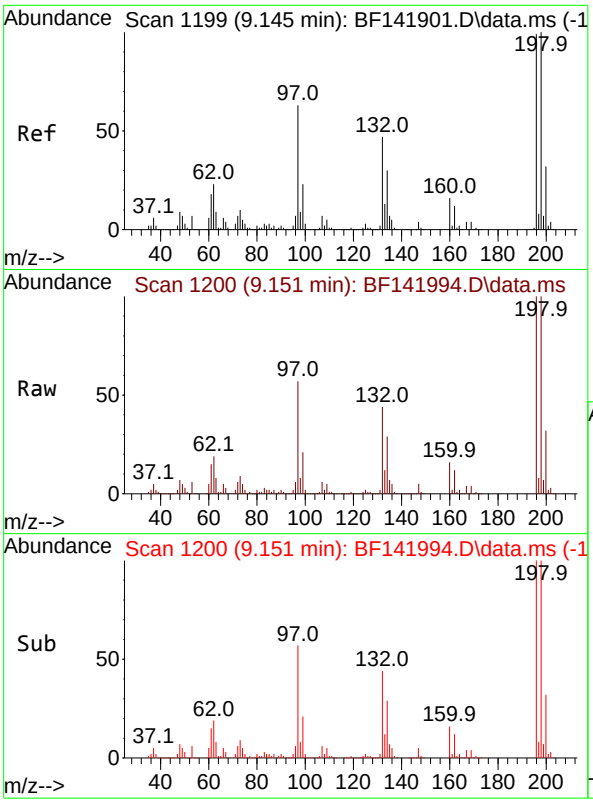


#42
2,4,6-Tribromophenol
Concen: 78.588 ng
RT: 10.710 min Scan# 1465
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:330 Resp: 480221

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.6	116.4
141	28.6	24.7	37.1



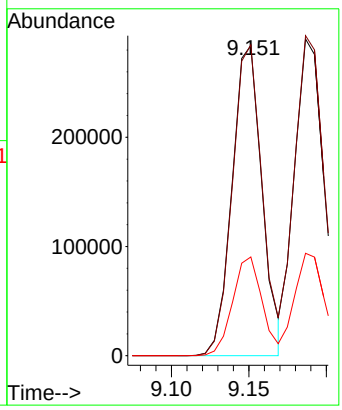


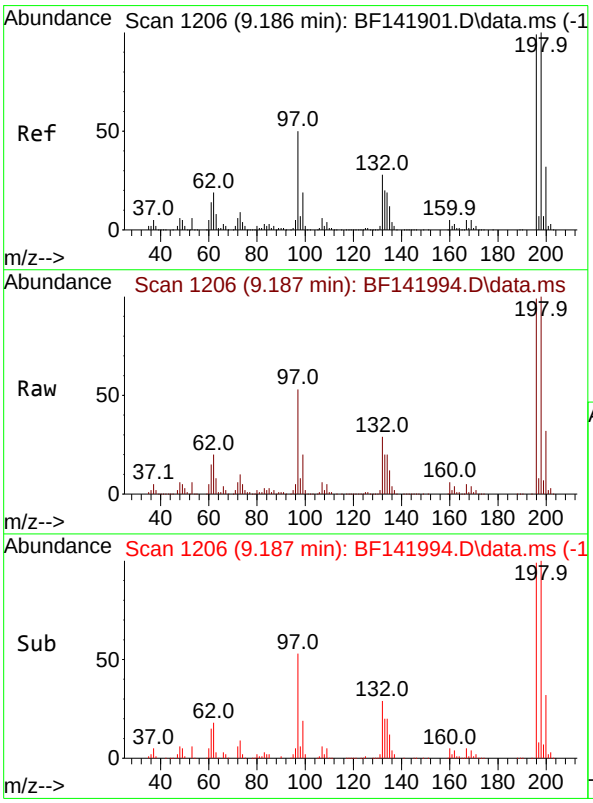
#43
2,4,6-Trichlorophenol
Concen: 39.744 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 380905

Ion	Ratio	Lower	Upper
196	100		
198	100.2	80.6	121.0
200	31.8	25.8	38.6

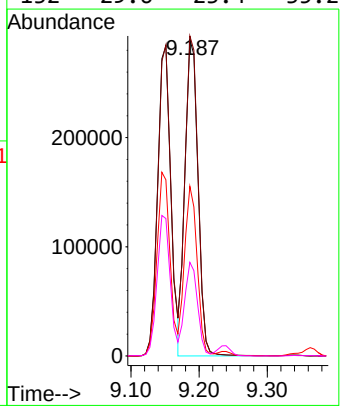


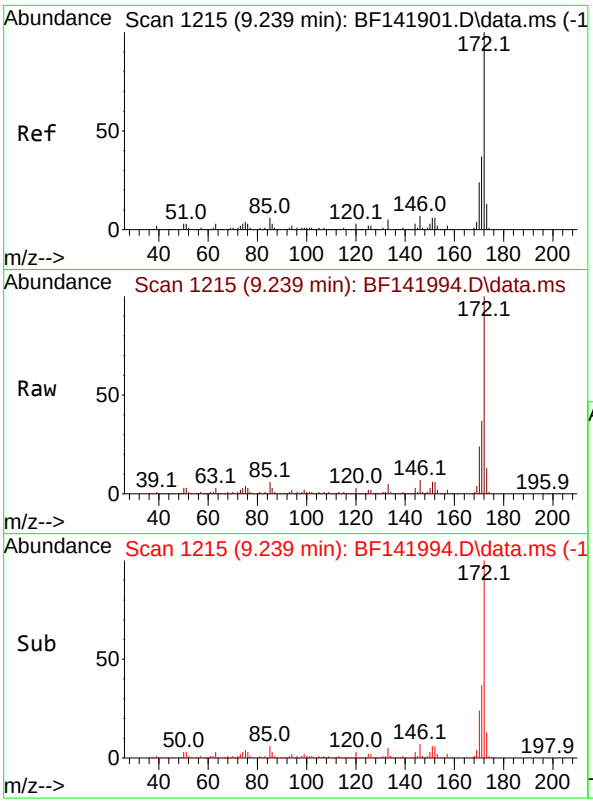


#44
2,4,5-Trichlorophenol
Concen: 39.608 ng
RT: 9.187 min Scan# 1206
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:196 Resp: 384465

Ion	Ratio	Lower	Upper
196	100		
198	101.1	80.7	121.1
97	53.6	42.1	63.1
132	29.6	23.4	35.2



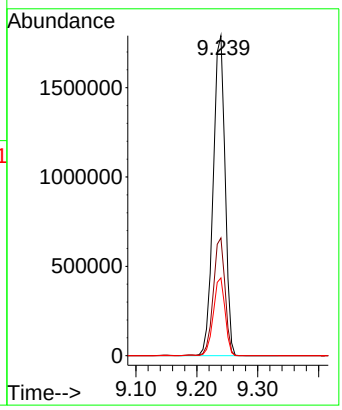


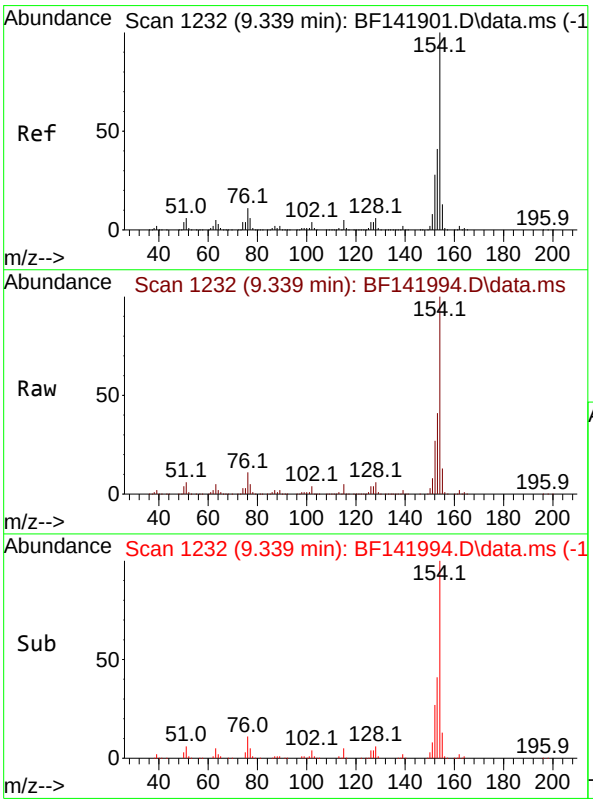
#45
2-Fluorobiphenyl
Concen: 76.752 ng
RT: 9.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 2430888

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.3	43.9
170	24.3	19.4	29.0

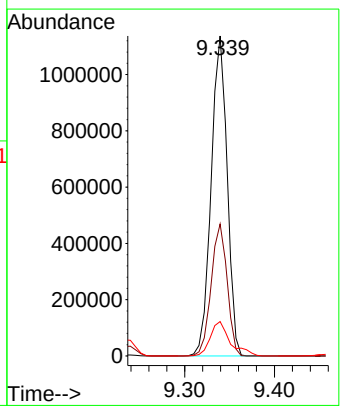


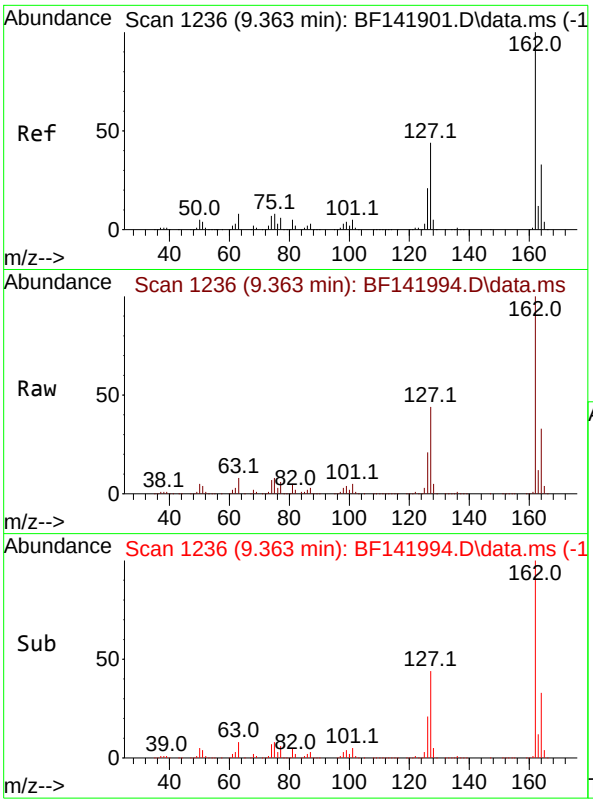


#46
1,1'-Biphenyl
Concen: 38.496 ng
RT: 9.339 min Scan# 1232
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:154 Resp: 1408867

Ion	Ratio	Lower	Upper
154	100		
153	41.2	21.1	61.1
76	10.8	0.0	31.3



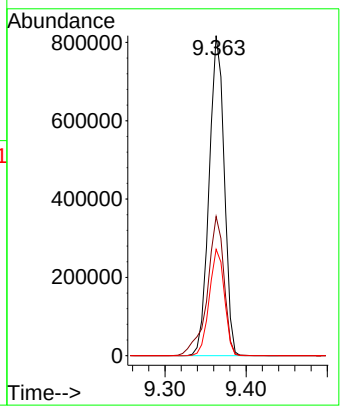


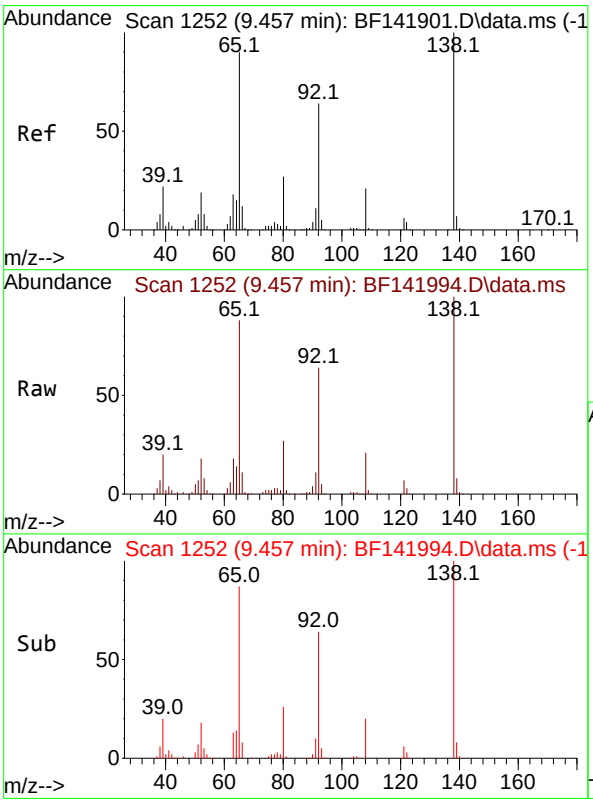
#47
2-Chloronaphthalene
Concen: 38.659 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 1054546

Ion	Ratio	Lower	Upper
162	100		
127	43.5	35.5	53.3
164	33.2	26.6	40.0

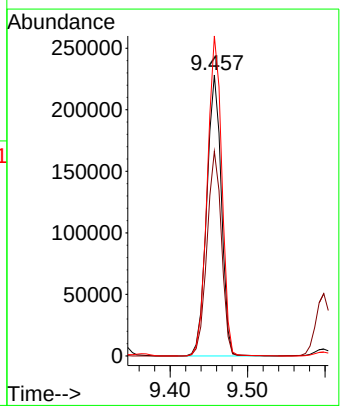


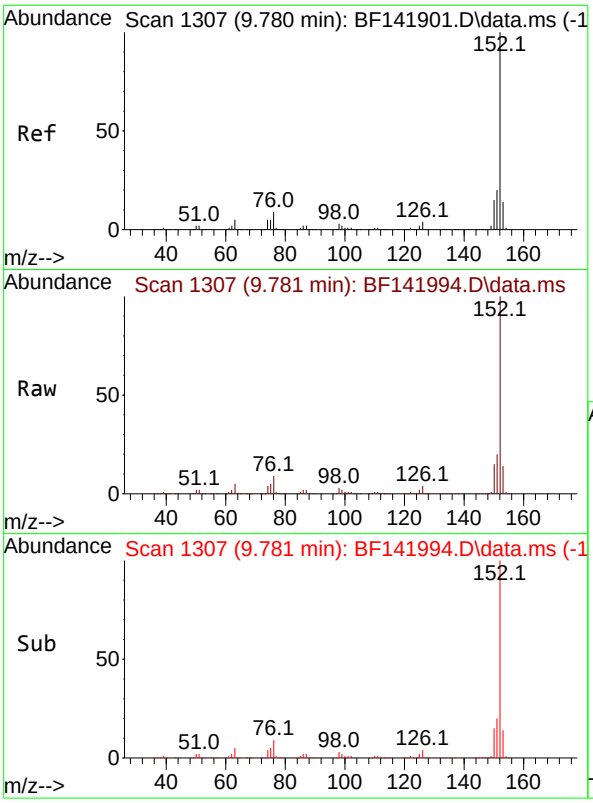


#48
2-Nitroaniline
Concen: 37.836 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion: 65 Resp: 298838

Ion	Ratio	Lower	Upper
65	100		
92	72.9	56.6	84.8
138	113.9	88.6	133.0



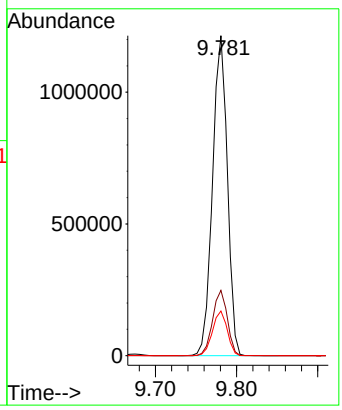


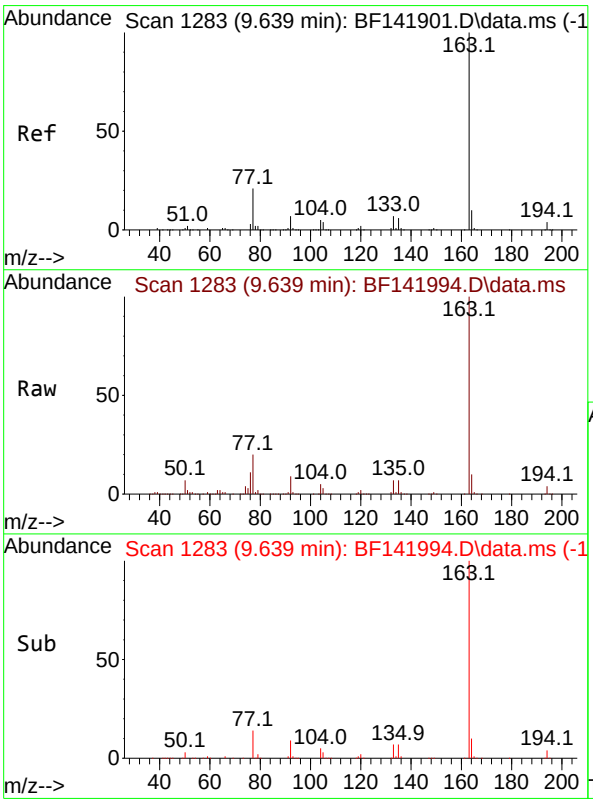
#49
Acenaphthylene
Concen: 38.061 ng
RT: 9.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 1540693

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	13.9	11.1	16.7

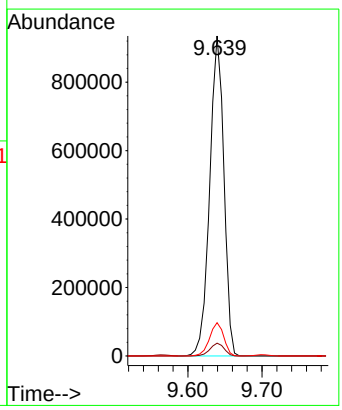


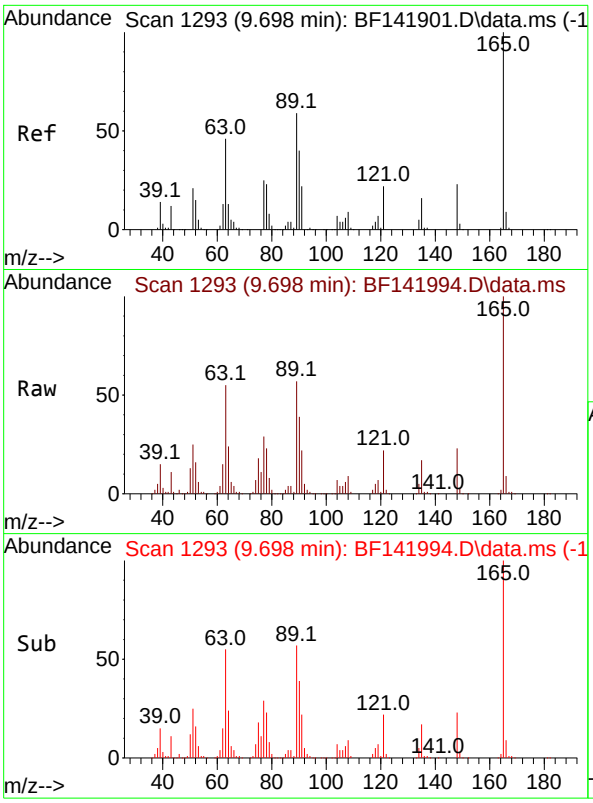


#50
Dimethylphthalate
Concen: 36.846 ng
RT: 9.639 min Scan# 1283
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:163 Resp: 1242811

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.4	8.2	12.4



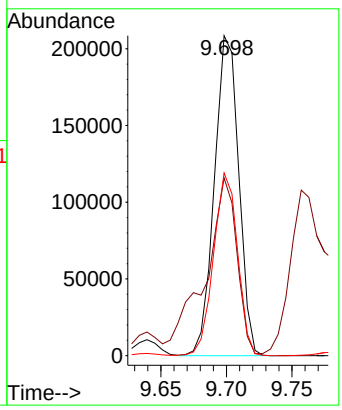


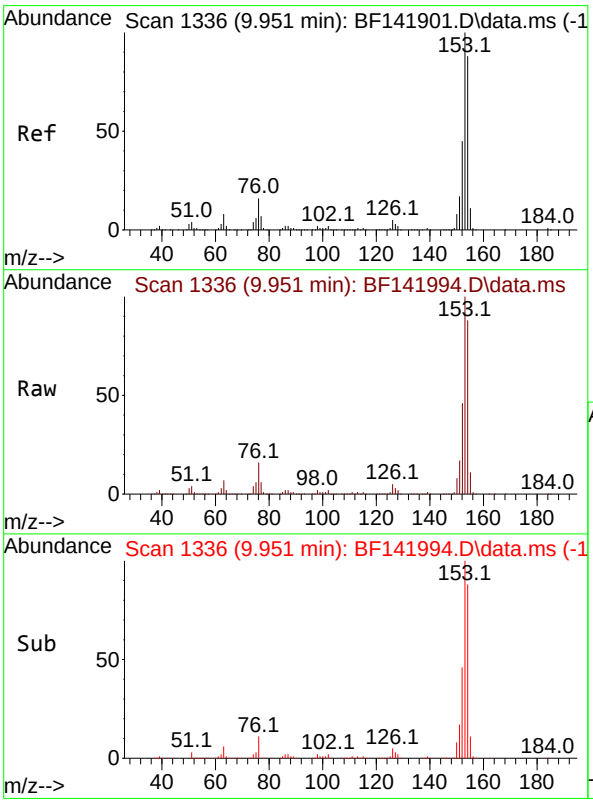
#51
2,6-Dinitrotoluene
Concen: 38.350 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 269332

Ion	Ratio	Lower	Upper
165	100		
63	55.5	47.0	70.4
89	57.1	47.4	71.2

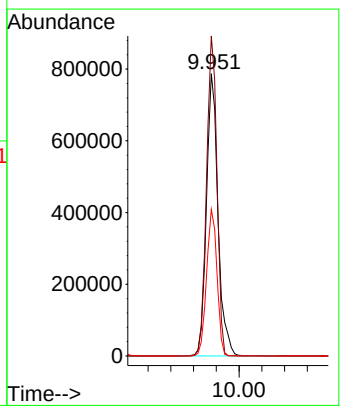


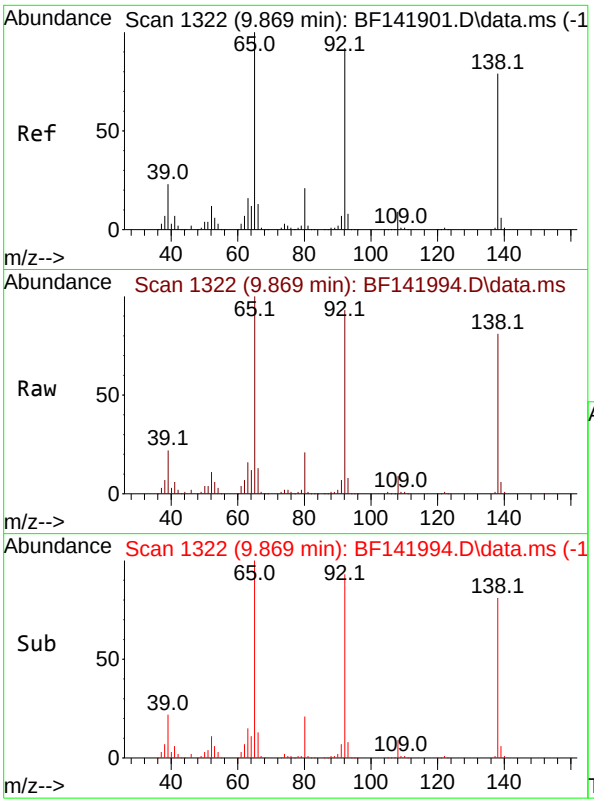


#52
Acenaphthene
Concen: 38.848 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:154 Resp: 1105127

Ion	Ratio	Lower	Upper
154	100		
153	113.4	90.7	136.1
152	51.9	41.1	61.7



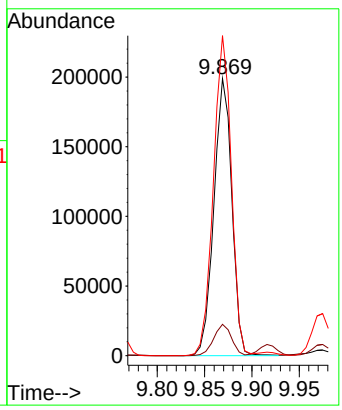


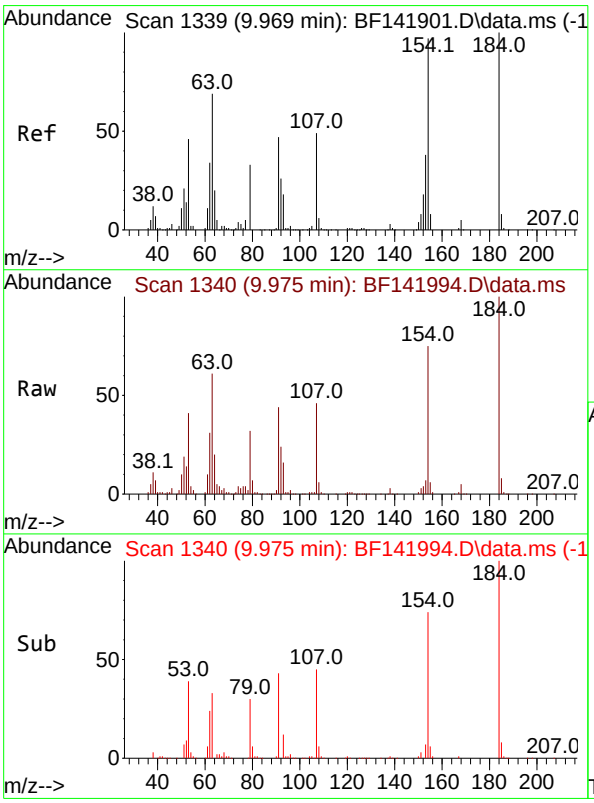
#53
3-Nitroaniline
Concen: 36.895 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 262837

Ion	Ratio	Lower	Upper
138	100		
108	11.3	9.3	13.9
92	115.5	93.5	140.3

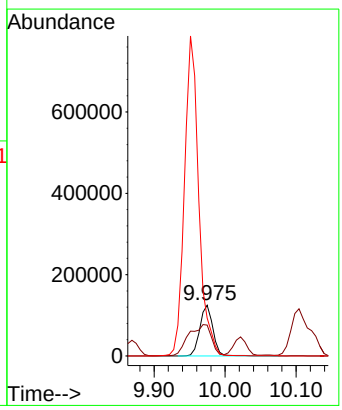


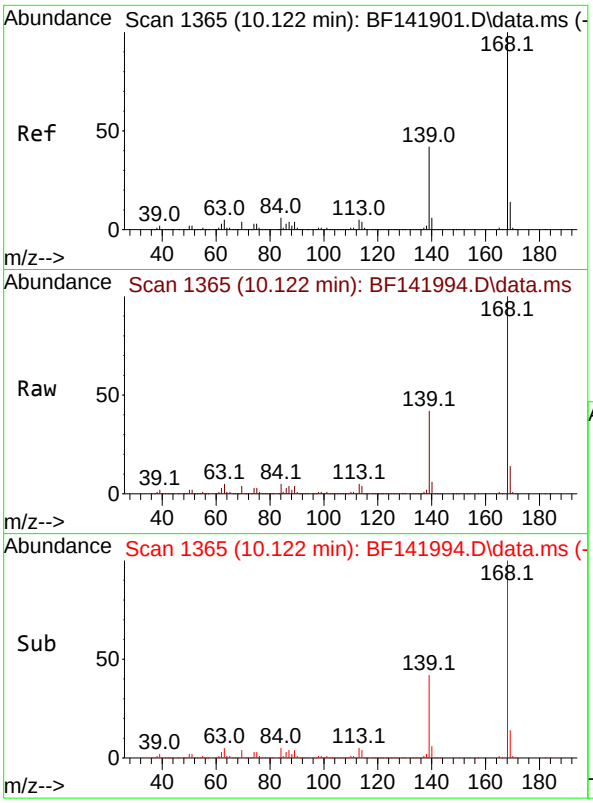


#54
2,4-Dinitrophenol
Concen: 43.339 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:184 Resp: 159837

Ion	Ratio	Lower	Upper
184	100		
63	60.8	60.2	90.4
154	74.7	132.9	199.3#



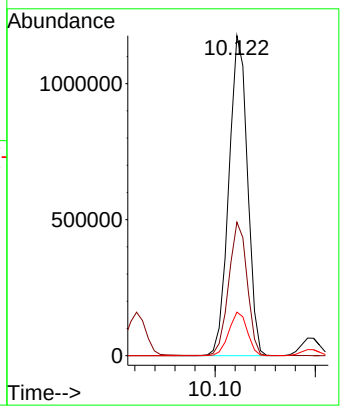


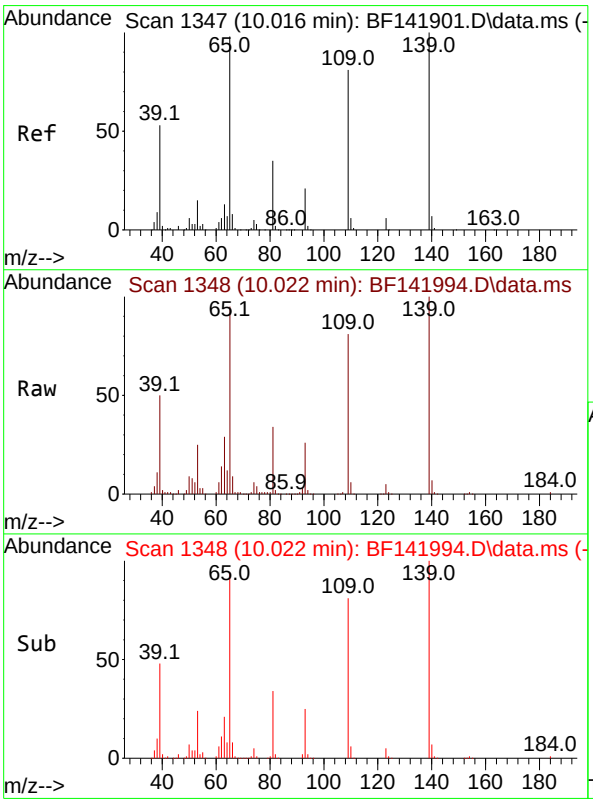
#55
Dibenzofuran
Concen: 37.335 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 1517598

Ion	Ratio	Lower	Upper
168	100		
139	41.7	33.9	50.9
169	13.6	11.0	16.4

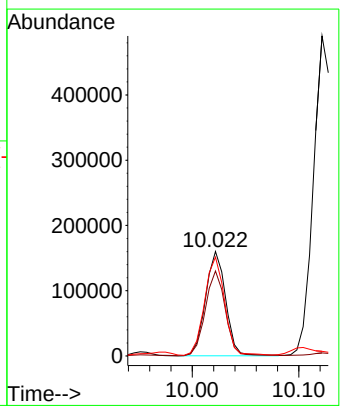


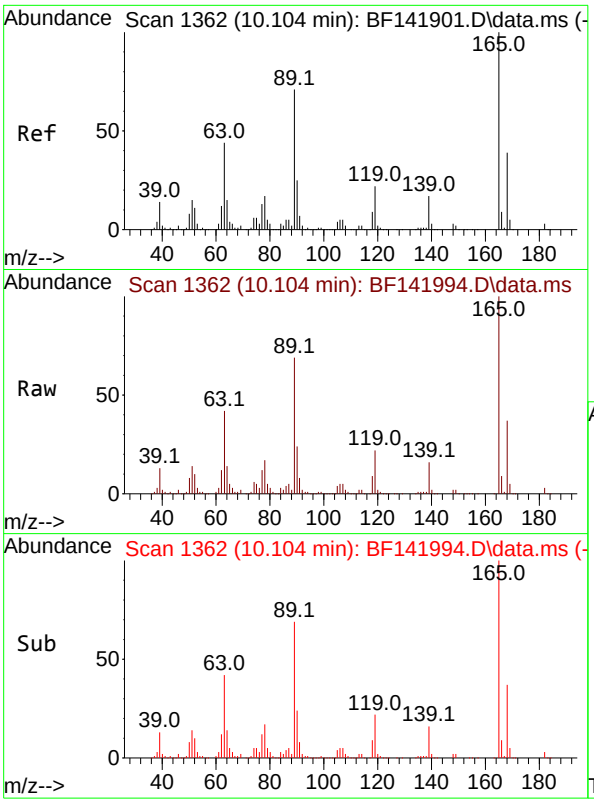


#56
4-Nitrophenol
Concen: 39.017 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:139 Resp: 209611

Ion	Ratio	Lower	Upper
139	100		
109	81.2	61.6	101.6
65	94.6	79.4	119.4



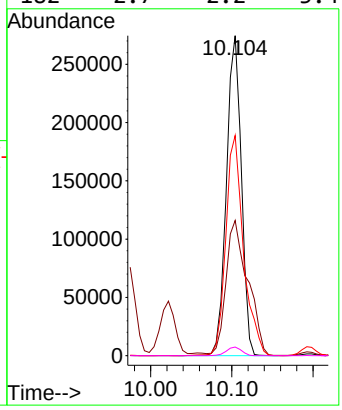


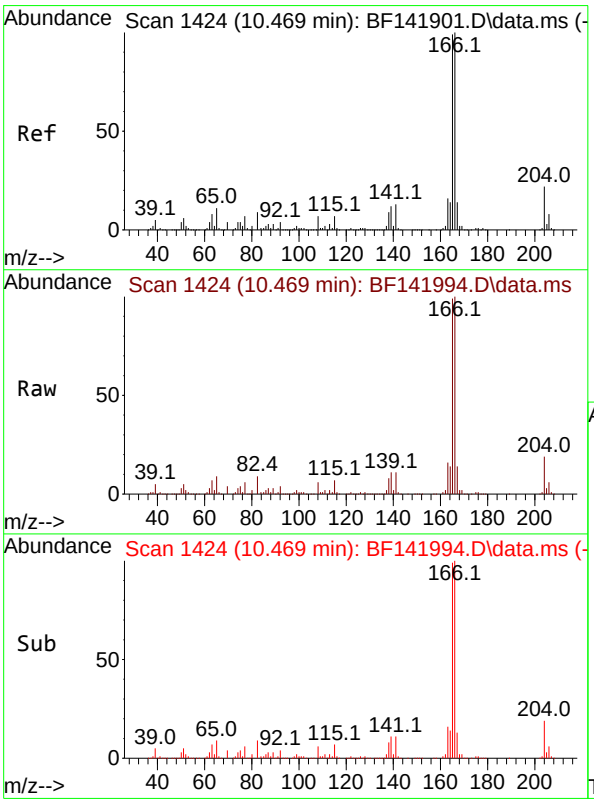
#57
2,4-Dinitrotoluene
Concen: 38.180 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 350210

Ion	Ratio	Lower	Upper
165	100		
63	42.2	35.4	53.2
89	68.8	56.6	84.8
182	2.7	2.2	3.4

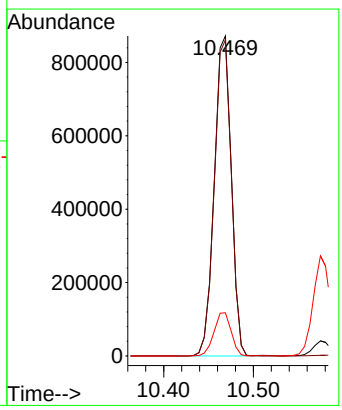


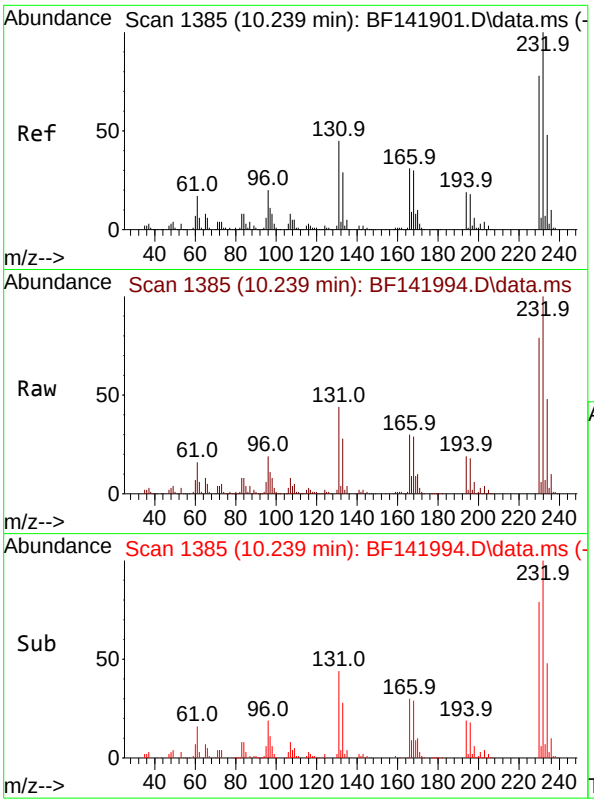


#58
Fluorene
Concen: 36.643 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:166 Resp: 1148628

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.0	118.4
167	13.5	11.0	16.4



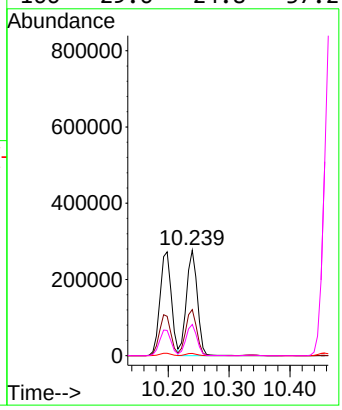


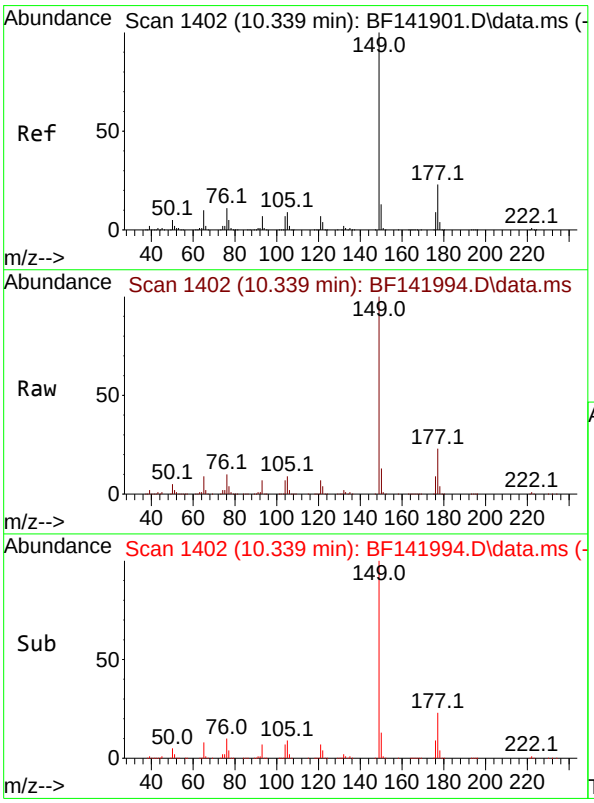
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.874 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 343368

Ion	Ratio	Lower	Upper
232	100		
131	44.3	37.3	55.9
130	2.2	1.9	2.9
166	29.6	24.8	37.2

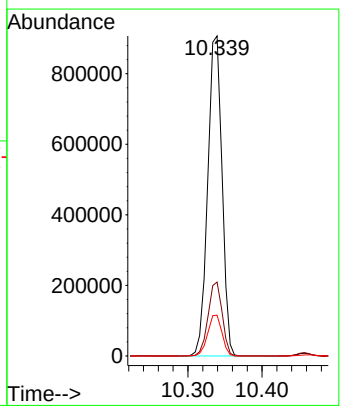


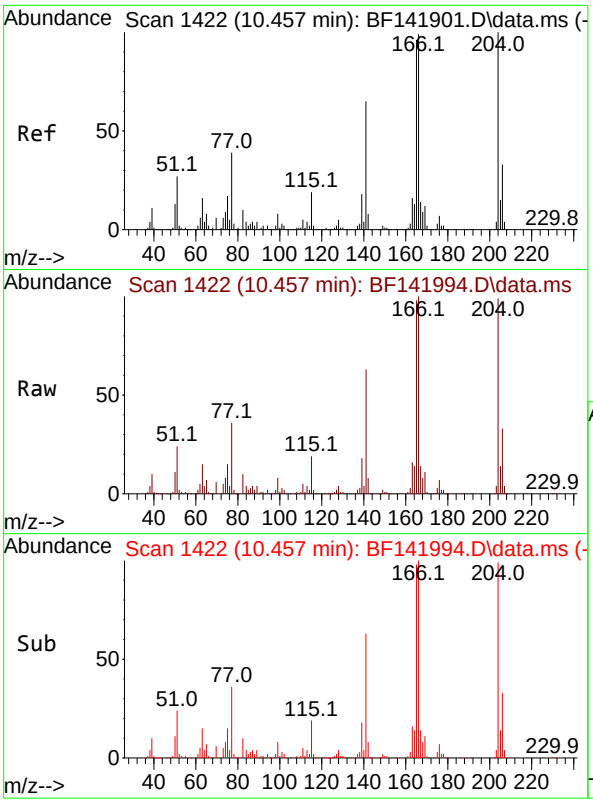


#60
Diethylphthalate
Concen: 36.095 ng
RT: 10.339 min Scan# 1402
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:149 Resp: 1213997

Ion	Ratio	Lower	Upper
149	100		
177	23.1	18.0	27.0
150	12.7	10.2	15.4



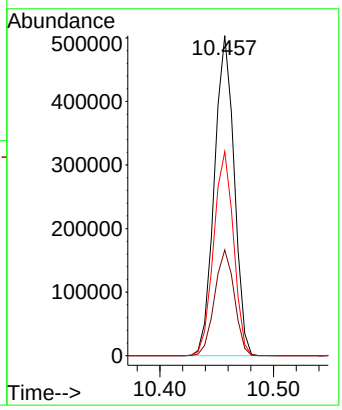


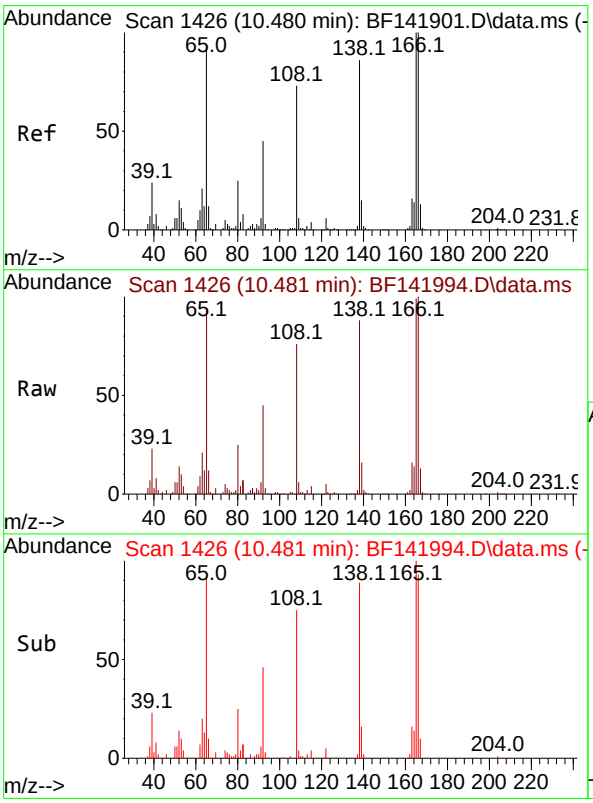
#61
4-Chlorophenyl-phenylether
Concen: 37.374 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 610782

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.8	40.2
141	63.8	52.4	78.6

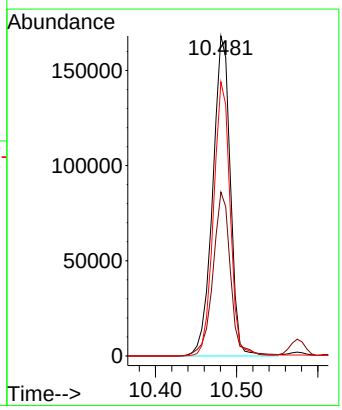


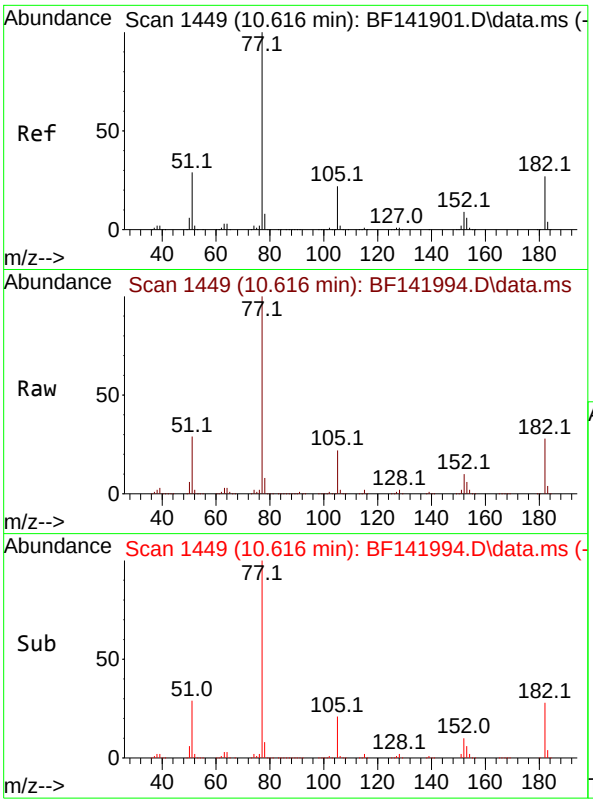


#62
4-Nitroaniline
Concen: 36.632 ng
RT: 10.481 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:138 Resp: 254062

Ion	Ratio	Lower	Upper
138	100		
92	51.2	32.6	72.6
108	85.6	65.0	105.0



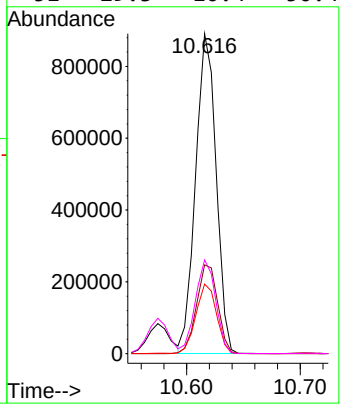


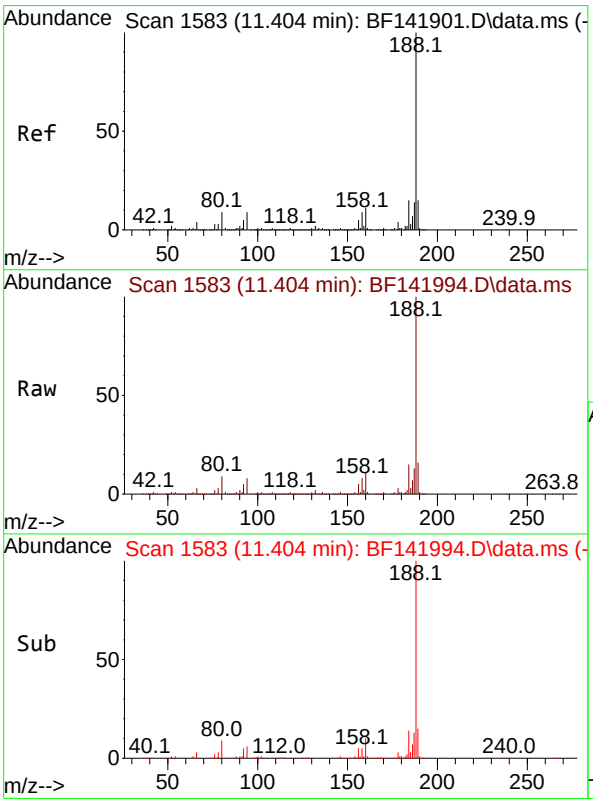
#63
Azobenzene
Concen: 35.814 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 1119869

Ion	Ratio	Lower	Upper
77	100		
182	27.8	6.6	46.6
105	21.7	1.3	41.3
51	29.3	10.4	50.4

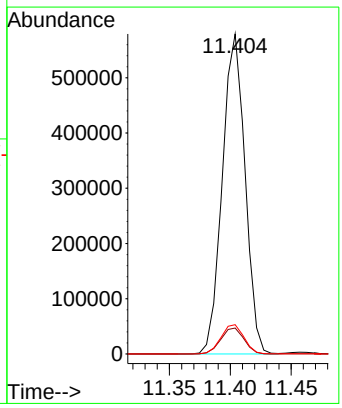


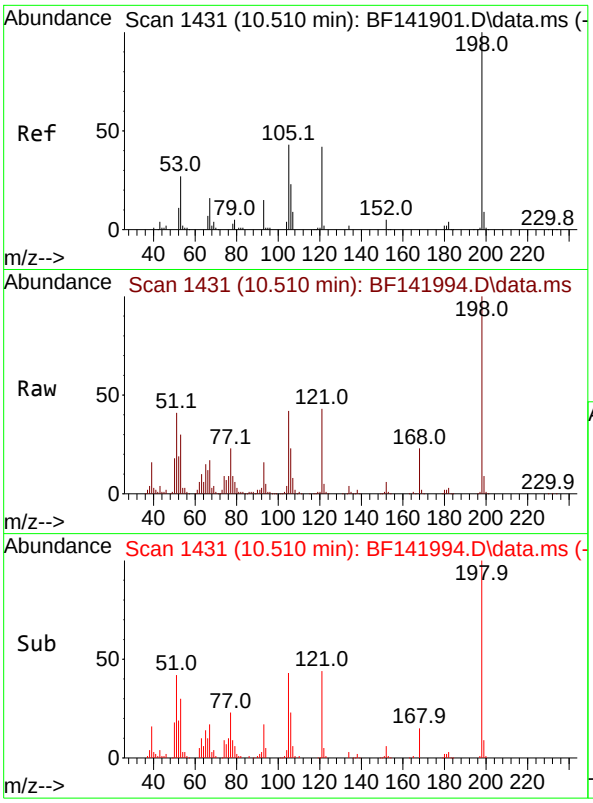


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:188 Resp: 753053

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.8	10.2
80	9.1	7.6	11.4



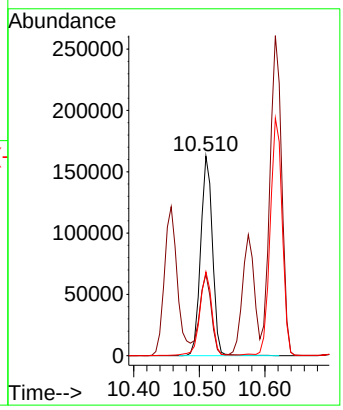


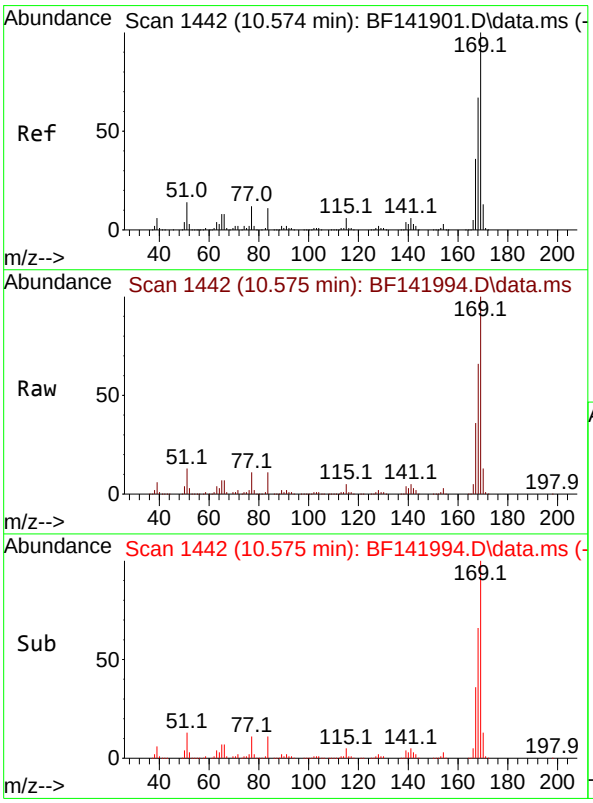
#65
4,6-Dinitro-2-methylphenol
Concen: 45.411 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 203861

Ion	Ratio	Lower	Upper
198	100		
51	40.8	22.3	62.3
105	42.1	23.0	63.0

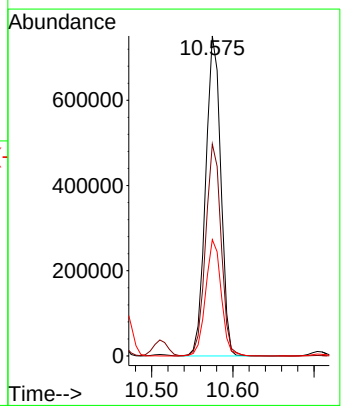


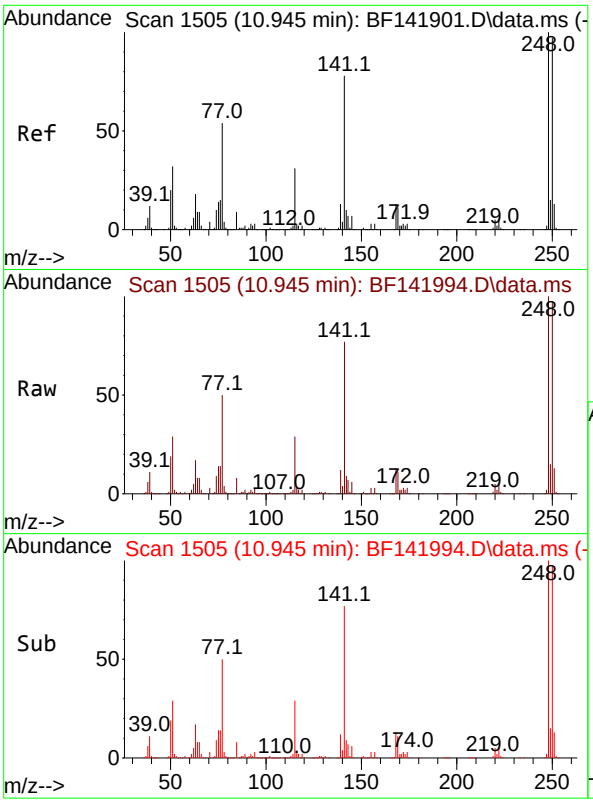


#66
n-Nitrosodiphenylamine
Concen: 39.770 ng
RT: 10.575 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:169 Resp: 969171

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.7	80.5
167	36.3	29.2	43.8



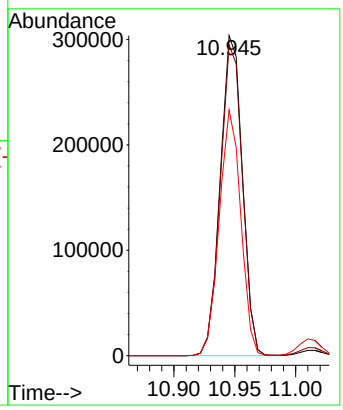


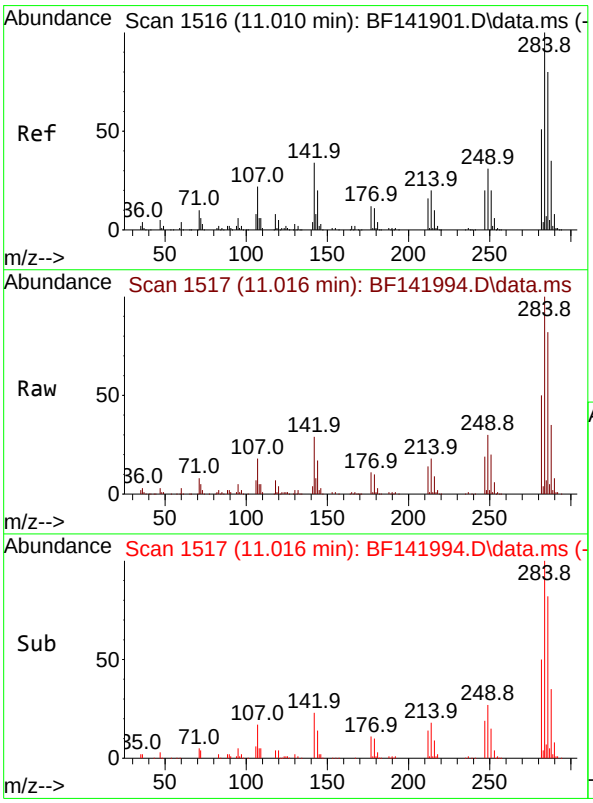
#67
4-Bromophenyl-phenylether
Concen: 40.653 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 384478

Ion	Ratio	Lower	Upper
248	100		
250	97.2	77.8	116.8
141	76.8	62.6	93.8

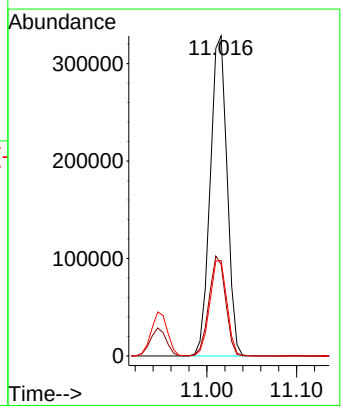


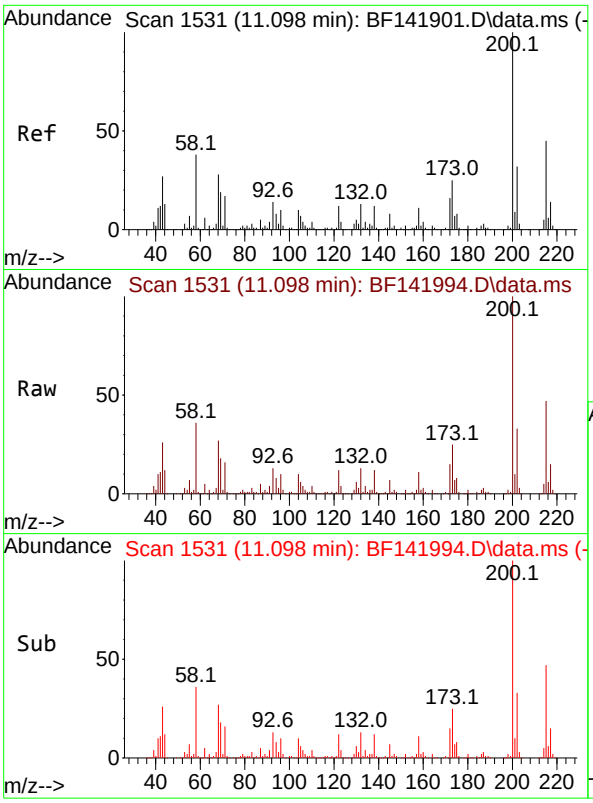


#68
Hexachlorobenzene
Concen: 41.181 ng
RT: 11.016 min Scan# 1517
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:284 Resp: 427155

Ion	Ratio	Lower	Upper
284	100		
142	28.6	27.0	40.6
249	29.9	25.2	37.8



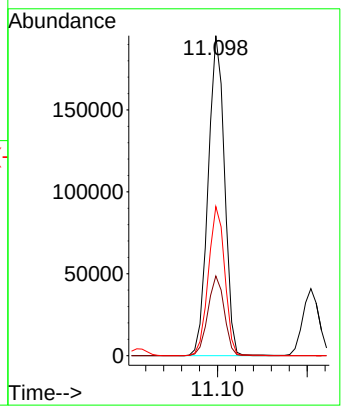


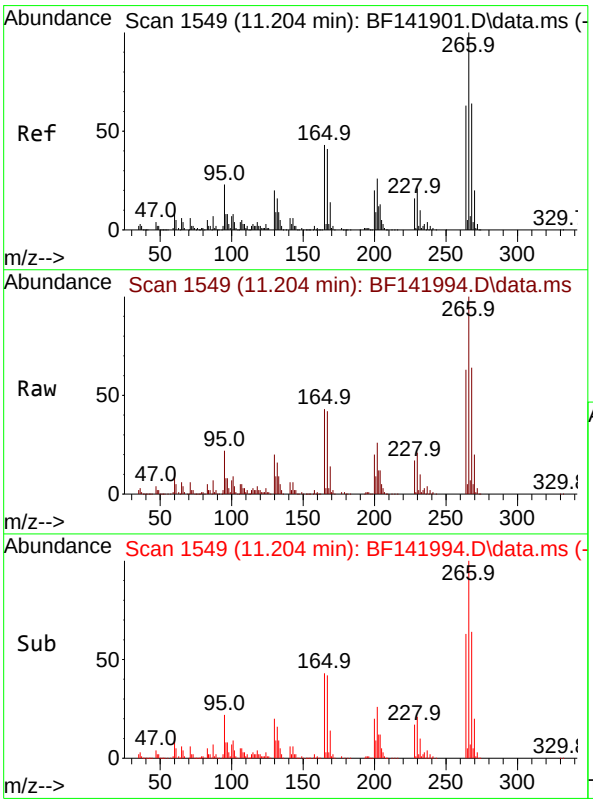
#69
Atrazine
Concen: 33.111 ng
RT: 11.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 247359

Ion	Ratio	Lower	Upper
200	100		
173	24.9	4.7	44.7
215	46.6	25.4	65.4

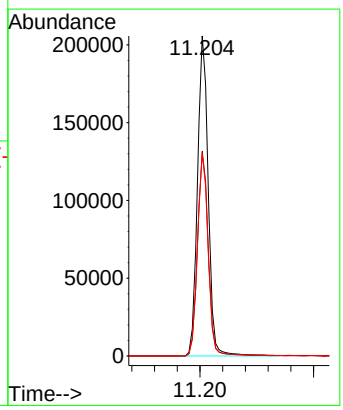


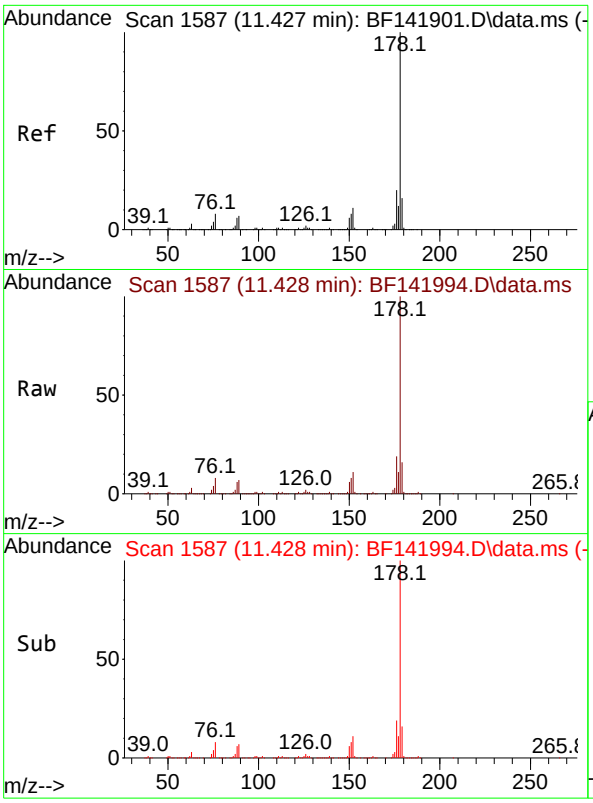


#70
Pentachlorophenol
Concen: 42.469 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:266 Resp: 271416

Ion	Ratio	Lower	Upper
266	100		
268	64.0	51.0	76.6
264	63.4	50.2	75.2



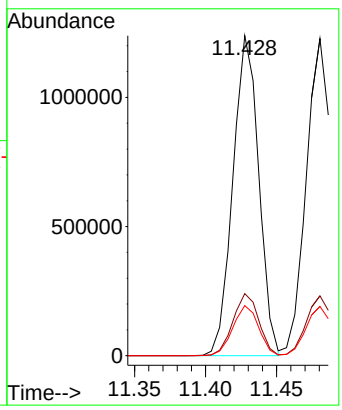


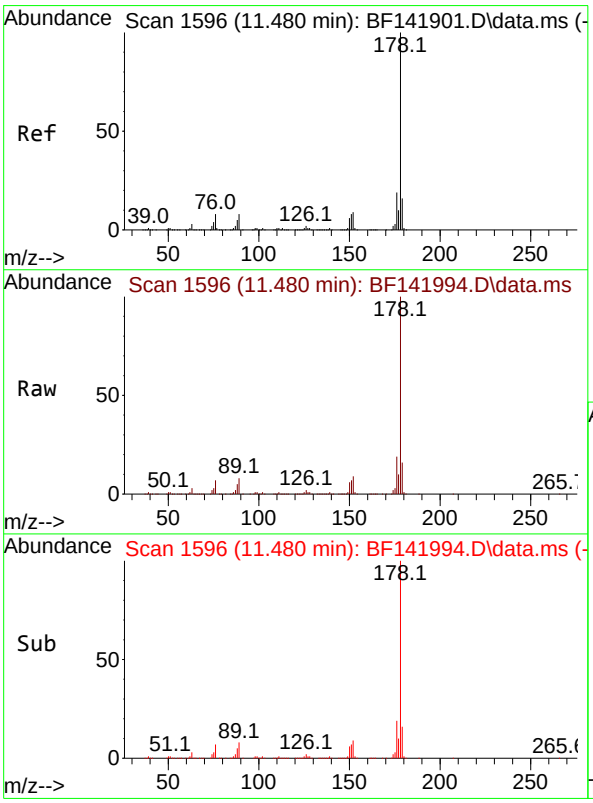
#71
Phenanthrene
Concen: 38.531 ng
RT: 11.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 1567239

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.6	12.6	19.0

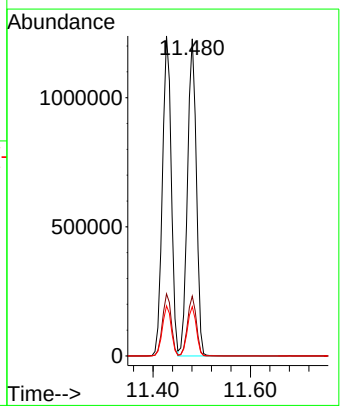


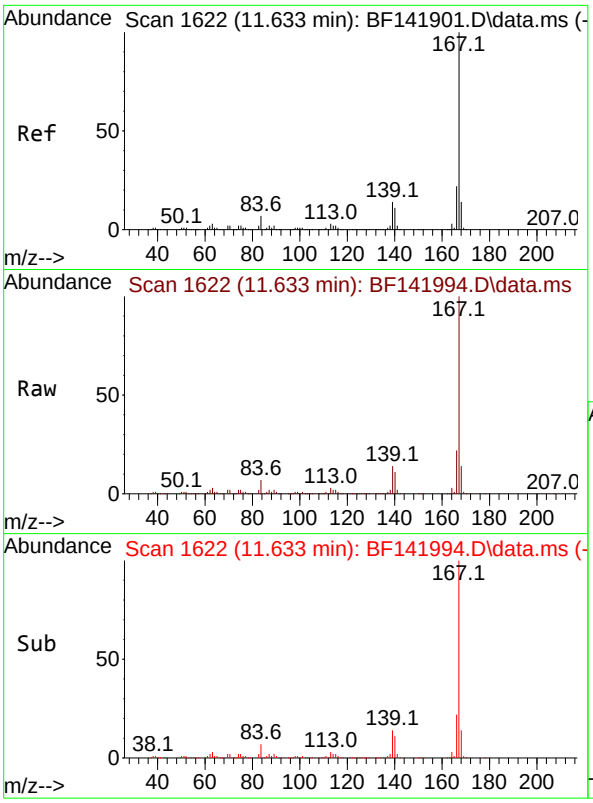


#72
Anthracene
Concen: 37.946 ng
RT: 11.480 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:178 Resp: 1548481

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.6	12.6	19.0



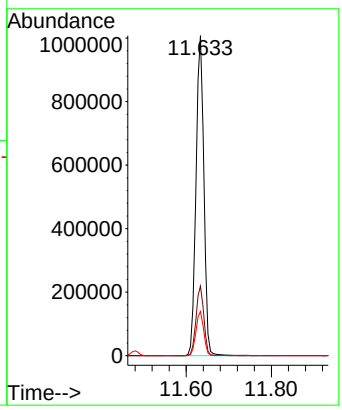


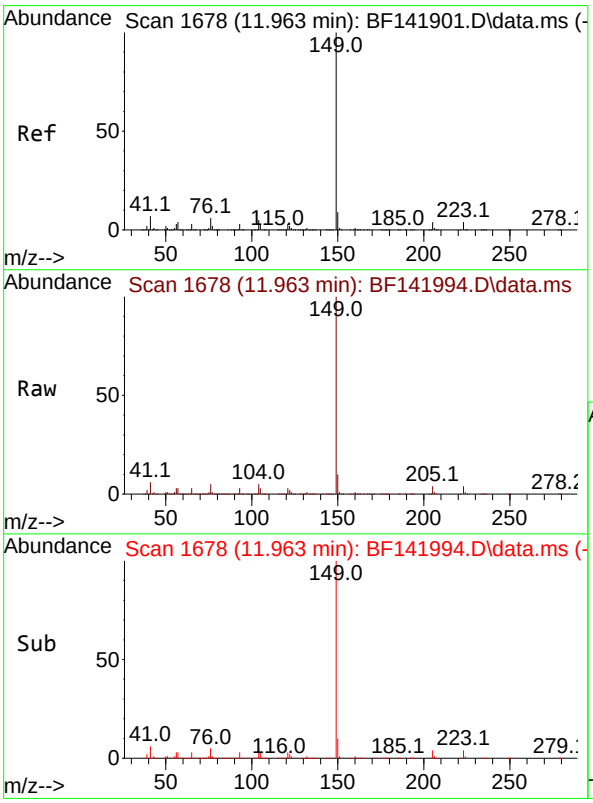
#73
Carbazole
Concen: 36.745 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 1293169

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.4	26.2
139	13.8	11.0	16.6

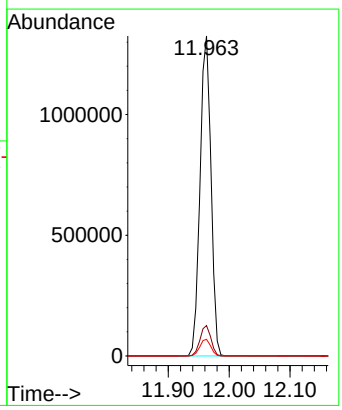


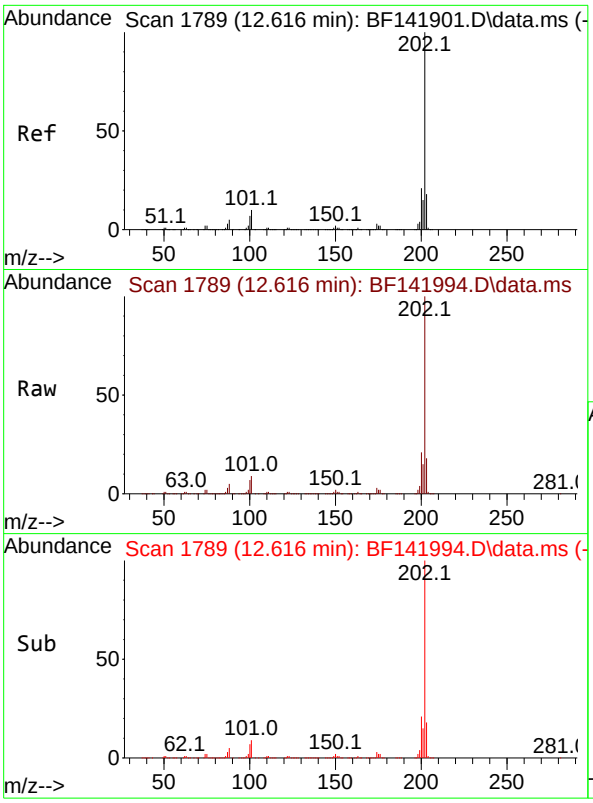


#74
Di-n-butylphthalate
Concen: 35.428 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:149 Resp: 1654382

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.6	11.4
104	5.2	4.4	6.6



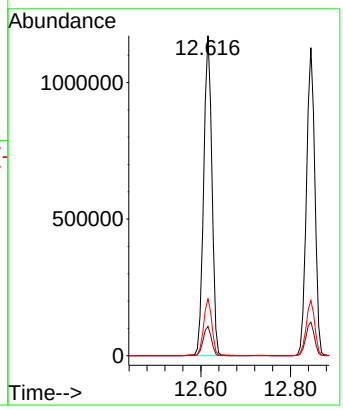


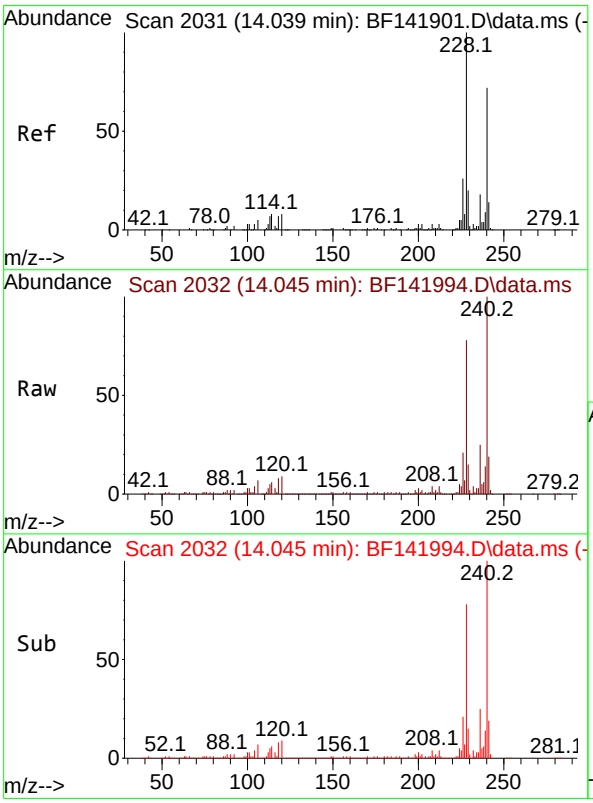
#75
Fluoranthene
Concen: 34.474 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 1487447

Ion	Ratio	Lower	Upper
202	100		
101	9.1	0.0	29.7
203	17.7	0.0	37.8

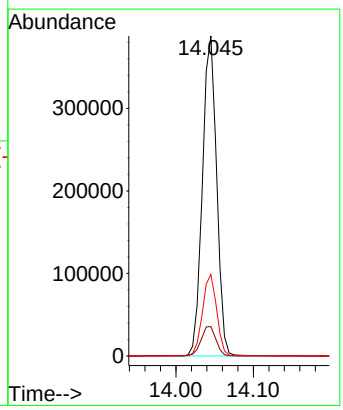


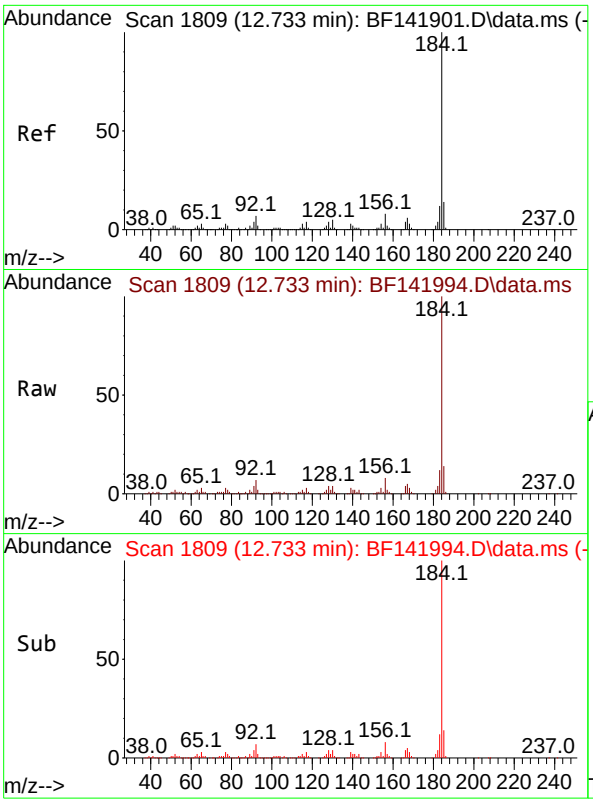


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:240 Resp: 494707

Ion	Ratio	Lower	Upper
240	100		
120	9.2	8.4	12.6
236	25.5	20.5	30.7



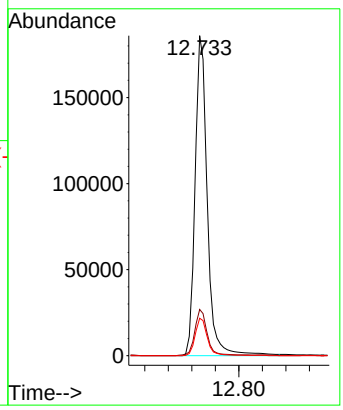


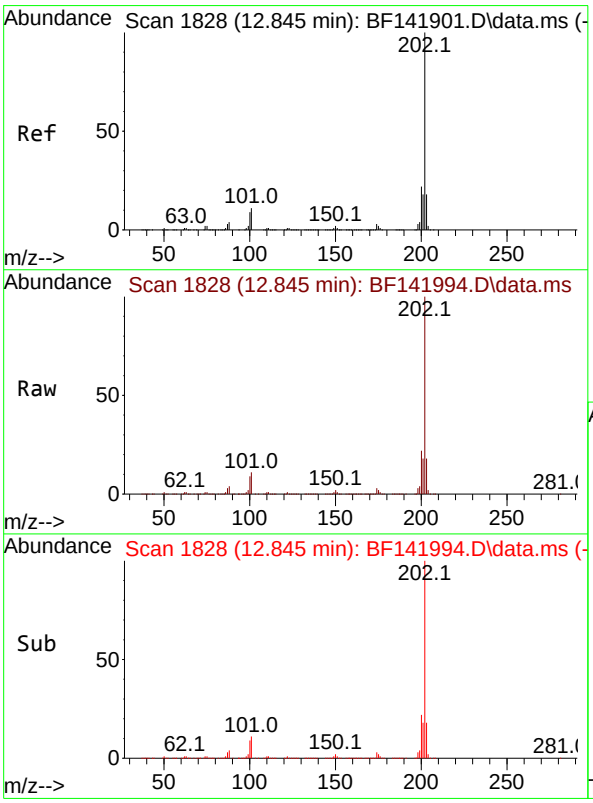
#77
Benzidine
Concen: 38.829 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 268003

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.5	17.3
183	11.7	9.7	14.5

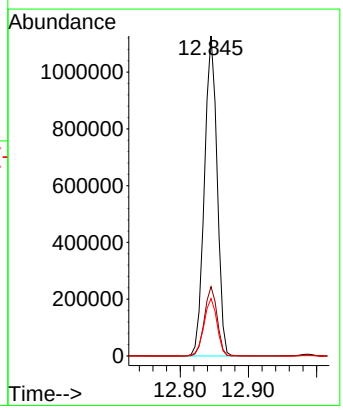


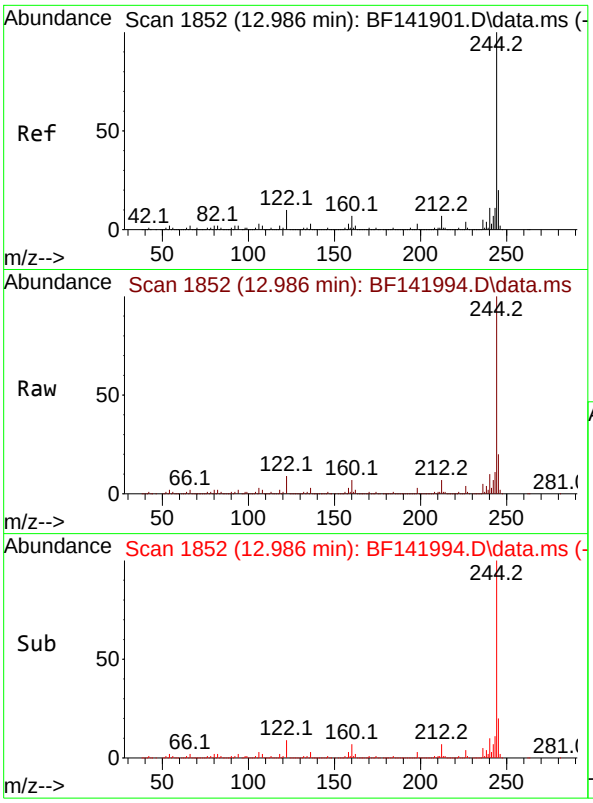


#78
Pyrene
Concen: 34.121 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:202 Resp: 1460125

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.3	25.9
203	17.9	14.4	21.6



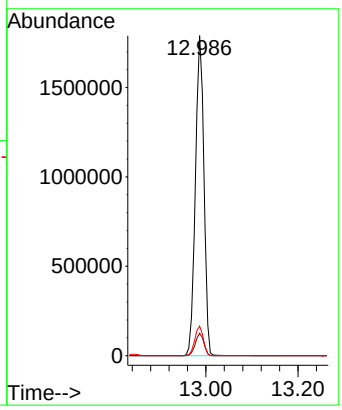


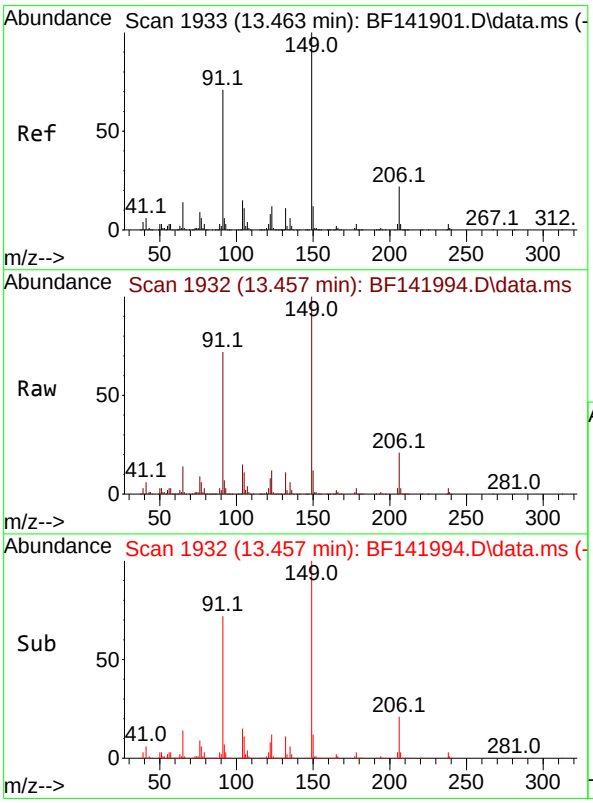
#79
Terphenyl-d14
Concen: 68.295 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 2285237

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	9.3	7.7	11.5

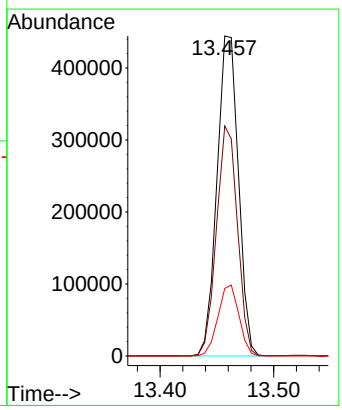


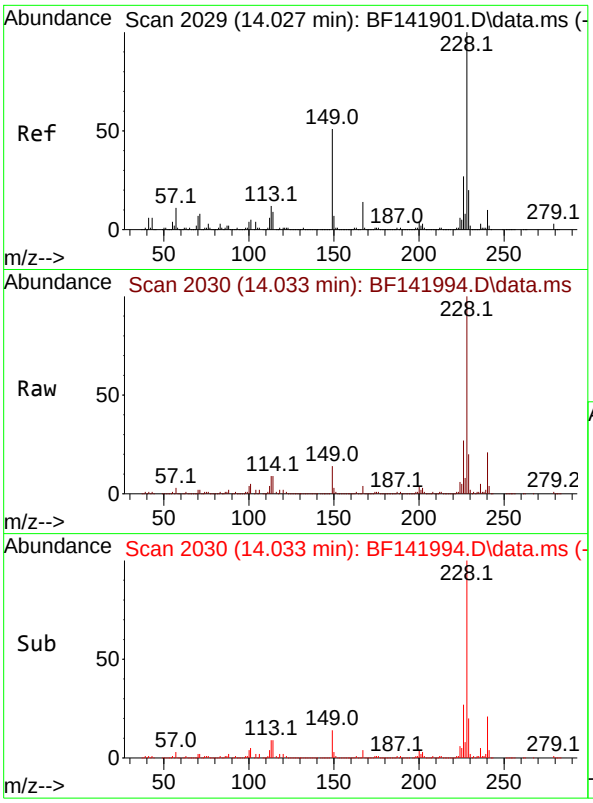


#80
Butylbenzylphthalate
Concen: 34.910 ng
RT: 13.457 min Scan# 1932
Delta R.T. -0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:149 Resp: 584716

Ion	Ratio	Lower	Upper
149	100		
91	71.9	56.5	84.7
206	21.1	17.3	25.9



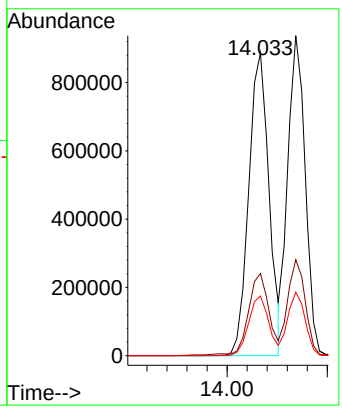


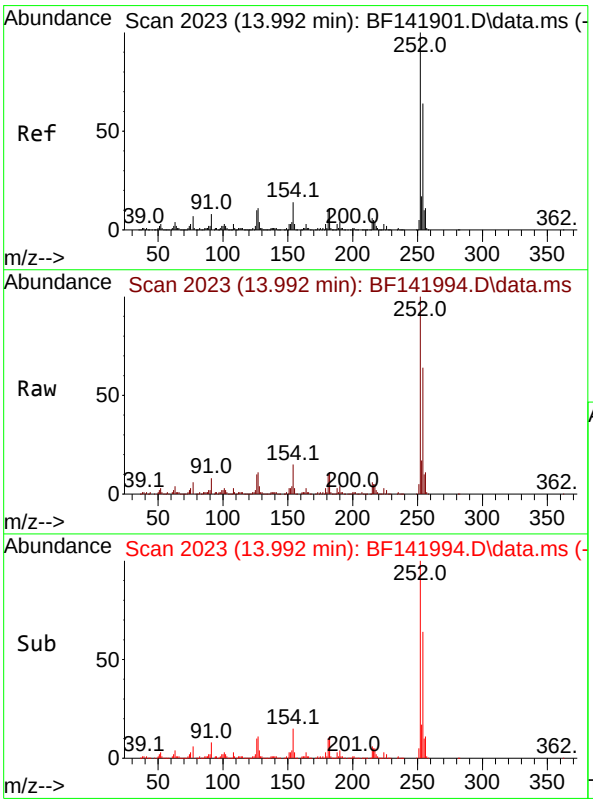
#81
Benzo(a)anthracene
Concen: 38.315 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 1243808

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.7	16.0	24.0

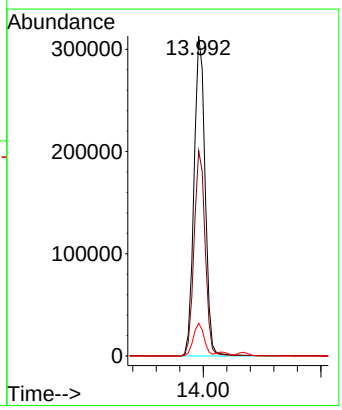


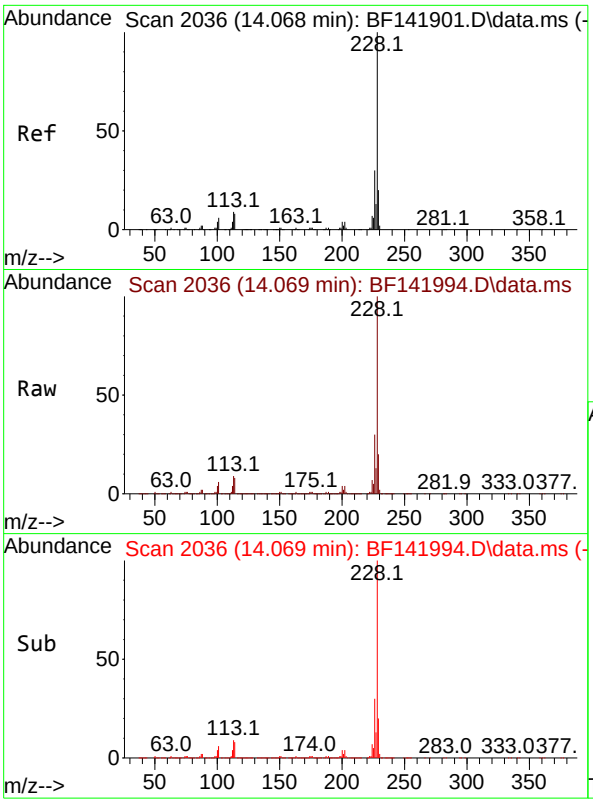


#82
3,3'-Dichlorobenzidine
Concen: 43.496 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:252 Resp: 408051

Ion	Ratio	Lower	Upper
252	100		
254	64.1	51.0	76.6
126	10.3	8.4	12.6



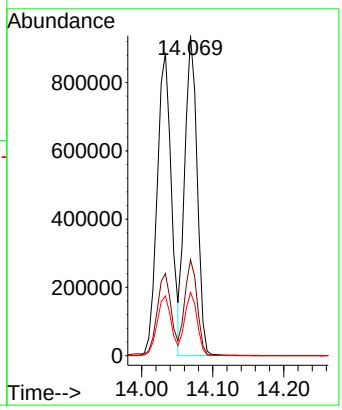


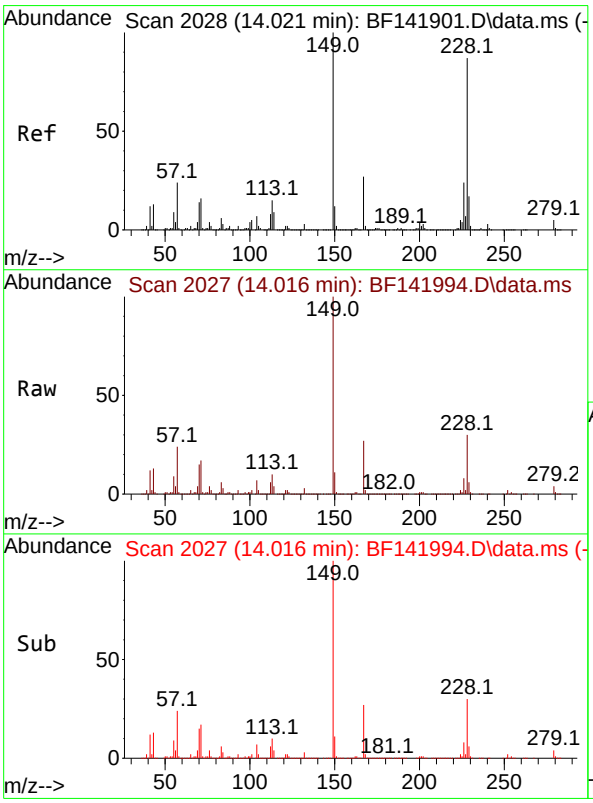
#83
Chrysene
Concen: 38.748 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 1140228

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.1	36.1
229	19.8	15.7	23.5

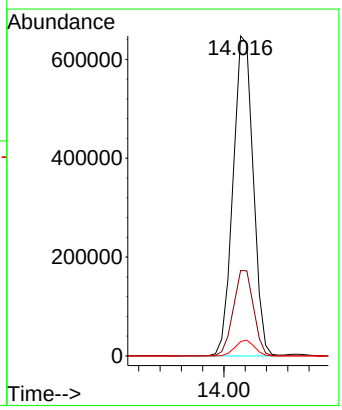


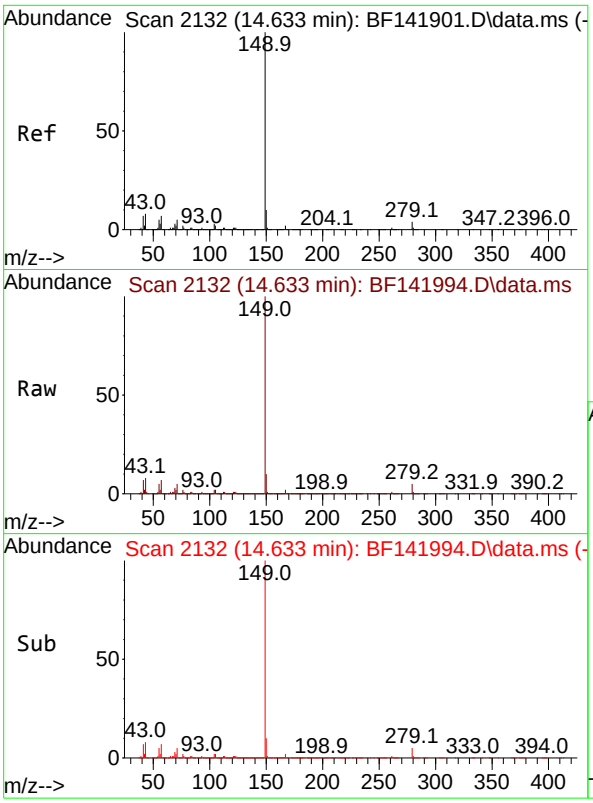


#84
Bis(2-ethylhexyl)phthalate
Concen: 36.815 ng
RT: 14.016 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:149 Resp: 850191

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.0
279	4.5	3.8	5.6



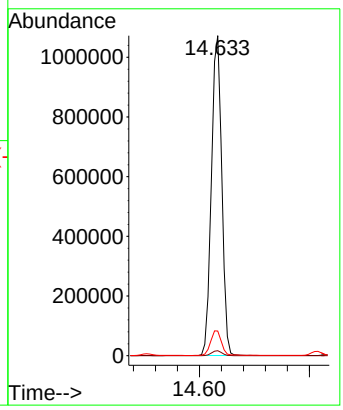


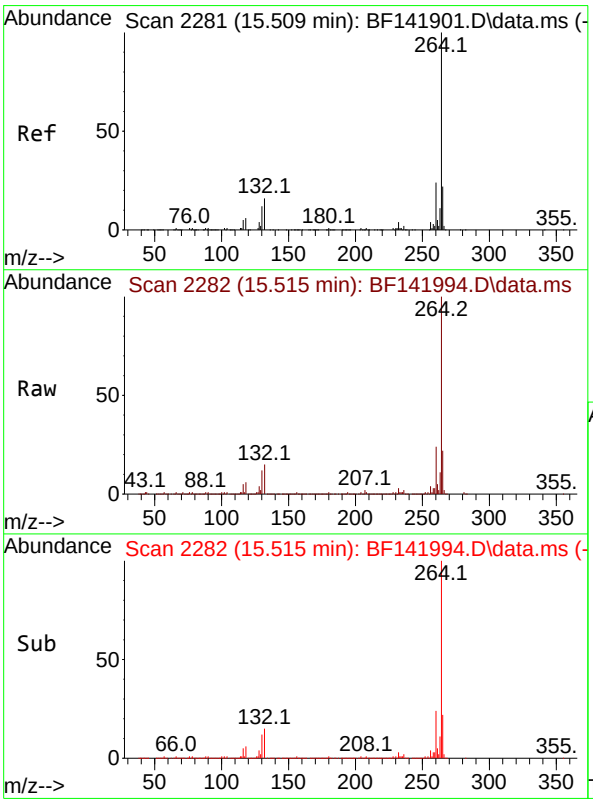
#85
Di-n-octyl phthalate
Concen: 43.530 ng
RT: 14.633 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 1398724

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.2	6.9	10.3

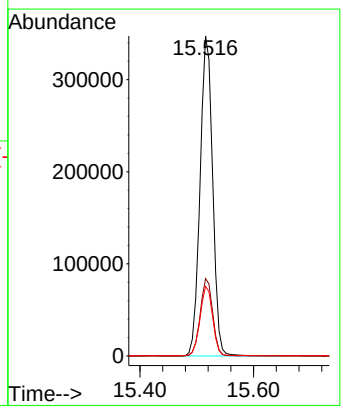


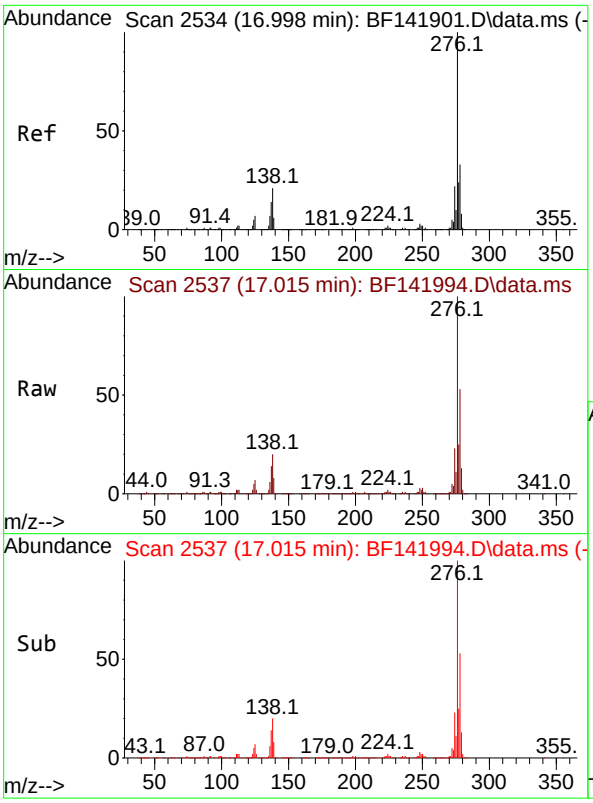


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:264 Resp: 535575

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.1	28.7
265	21.8	17.5	26.3



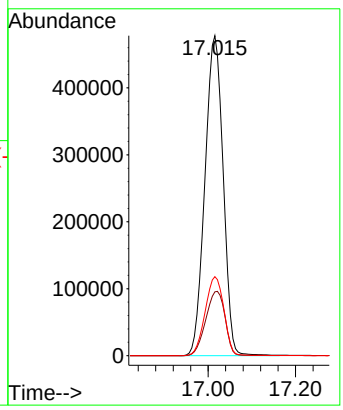


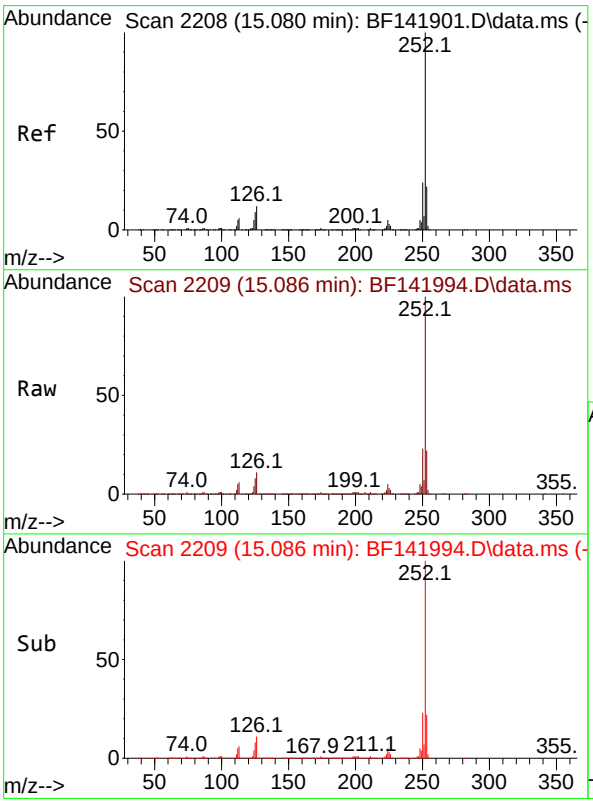
#87
Indeno(1,2,3-cd)pyrene
Concen: 39.997 ng
RT: 17.015 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 1385704

Ion	Ratio	Lower	Upper
276	100		
138	21.4	18.4	27.6
277	25.5	20.3	30.5

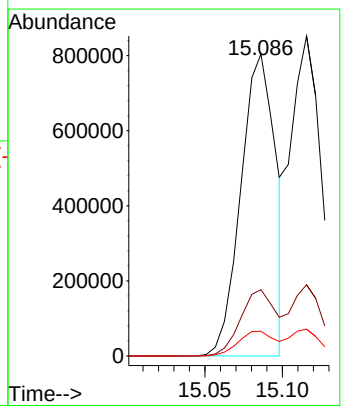


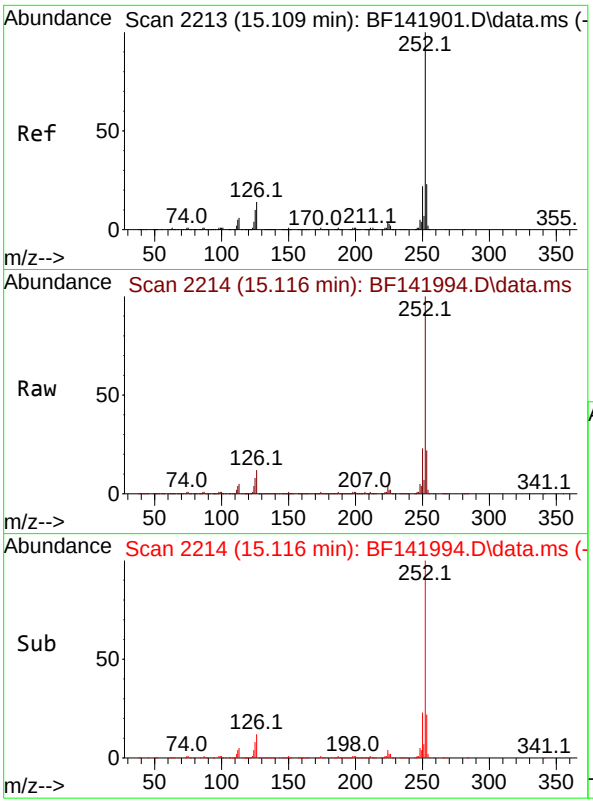


#88
Benzo(b)fluoranthene
Concen: 34.071 ng
RT: 15.086 min Scan# 2209
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:252 Resp: 1250628

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	8.1	7.0	10.4



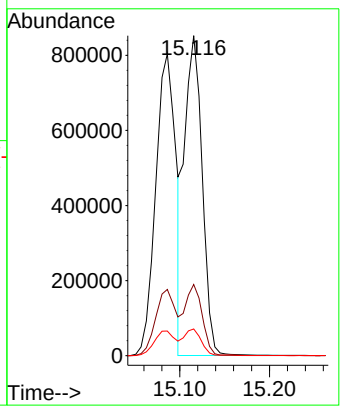


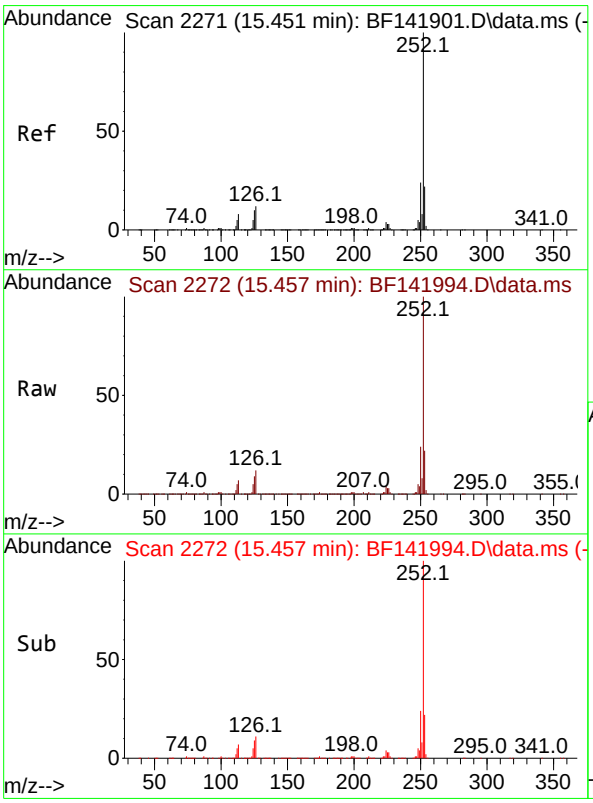
#89
Benzo(k)fluoranthene
Concen: 37.042 ng
RT: 15.116 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 1163553

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	8.3	7.2	10.8

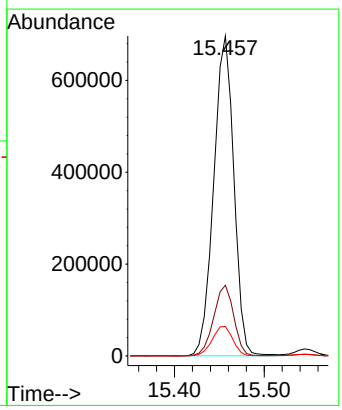


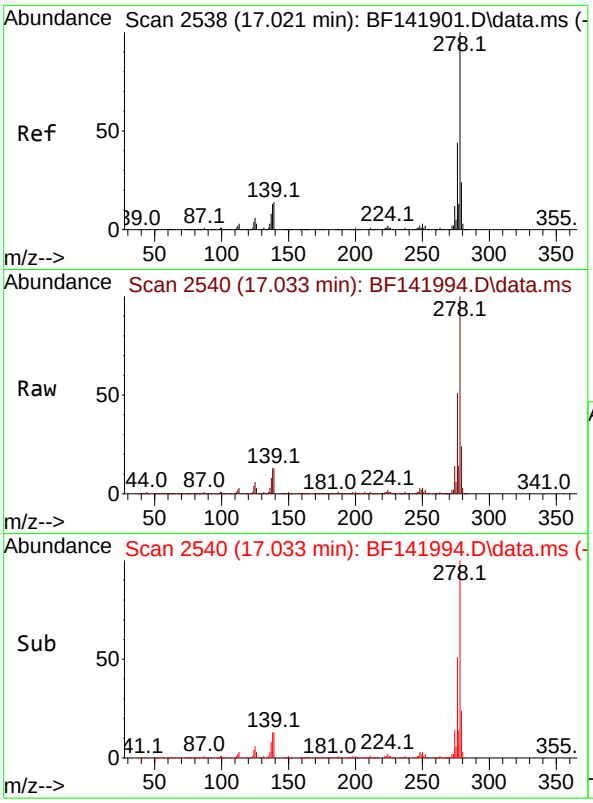


#90
Benzo(a)pyrene
Concen: 37.800 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:252 Resp: 1085663

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0
125	9.2	7.8	11.8



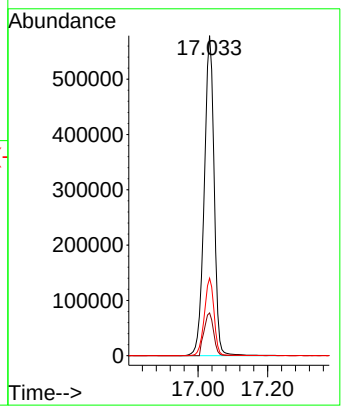


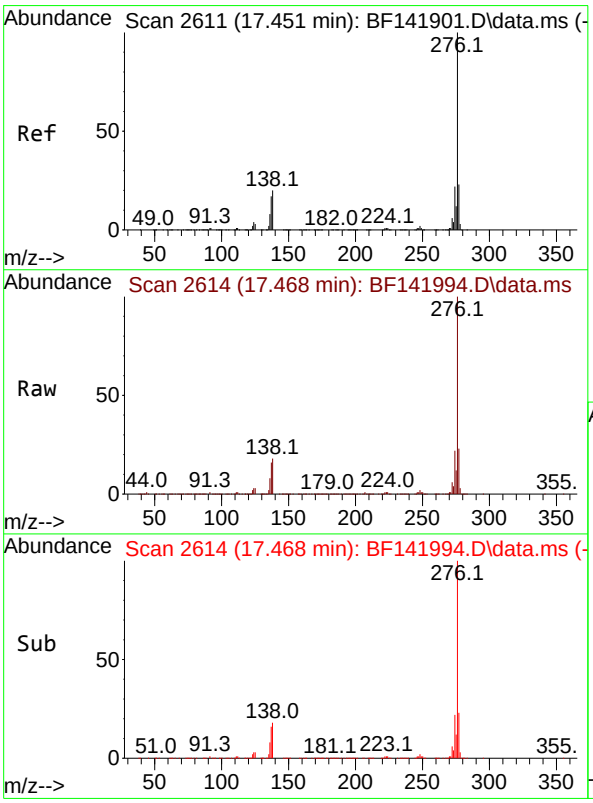
#91
Dibenzo(a,h)anthracene
Concen: 40.065 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 1145269

Ion	Ratio	Lower	Upper
278	100		
139	13.4	11.4	17.2
279	24.2	18.8	28.2

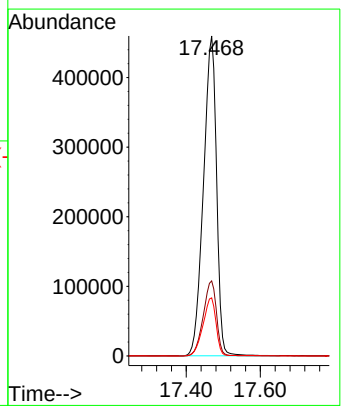




#92
Benzo(g,h,i)perylene
Concen: 39.857 ng
RT: 17.468 min Scan# 2614
Delta R.T. 0.018 min
Lab File: BF141994.D
Acq: 18 Mar 2025 14:30

Tgt Ion:276 Resp: 1125885

Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.7	28.1
138	18.1	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141994.D
Acq On : 18 Mar 2025 14:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 15:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
2		1,4-Dioxane	0.502	0.478	4.8	102	-0.02
3		Pyridine	1.232	1.158	6.0	102	-0.01
4		n-Nitrosodimethylamine	0.587	0.546	7.0	101	-0.01
5	S	2-Fluorophenol	1.198	1.134	5.3	106	0.00
6		Aniline	1.505	1.285	14.6	94	0.00
7	S	Phenol-d6	1.526	1.395	8.6	104	0.00
8		2-Chlorophenol	1.329	1.243	6.5	106	0.00
9		Benzaldehyde	0.853	0.738	13.5	102	0.00
10	C	Phenol	1.605	1.455	9.3	102	0.00
11		bis(2-Chloroethyl)ether	1.205	1.093	9.3	103	0.00
12		1,3-Dichlorobenzene	1.435	1.364	4.9	107	0.00
13	C	1,4-Dichlorobenzene	1.452	1.384	4.7	107	0.00
14		1,2-Dichlorobenzene	1.367	1.301	4.8	107	0.00
15		Benzyl Alcohol	1.233	1.115	9.6	101	0.00
16		2,2'-oxybis(1-Chloropropane	1.455	1.219	16.2	96	0.00
17		2-Methylphenol	1.057	0.959	9.3	102	0.00
18		Hexachloroethane	0.544	0.517	5.0	108	0.00
19	P	n-Nitroso-di-n-propylamine	0.980	0.814	16.9	96	0.00
20		3+4-Methylphenols	1.354	1.188	12.3	99	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
22		Acetophenone	0.479	0.445	7.1	99	0.00
23	S	Nitrobenzene-d5	0.355	0.343	3.4	101	0.00
24		Nitrobenzene	0.353	0.341	3.4	101	0.00
25		Isophorone	0.628	0.568	9.6	97	0.00
26	C	2-Nitrophenol	0.173	0.180	-4.0	105	0.00
27		2,4-Dimethylphenol	0.239	0.226	5.4	100	0.00
28		bis(2-Chloroethoxy)methane	0.394	0.358	9.1	98	0.00
29	C	2,4-Dichlorophenol	0.296	0.283	4.4	101	0.00
30		1,2,4-Trichlorobenzene	0.327	0.318	2.8	105	0.00
31		Naphthalene	1.027	0.958	6.7	100	0.00
32		Benzoic acid	0.210	0.228	-8.6	112	0.00
33		4-Chloroaniline	0.363	0.316	12.9	92	0.00
34	C	Hexachlorobutadiene	0.213	0.216	-1.4	108	0.00
35		Caprolactam	0.090	0.080	11.1	98	0.00
36	C	4-Chloro-3-methylphenol	0.331	0.302	8.8	97	0.00
37		2-Methylnaphthalene	0.687	0.631	8.2	99	0.00
38		1-Methylnaphthalene	0.663	0.605	8.7	99	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00
40		1,2,4,5-Tetrachlorobenzene	0.609	0.610	-0.2	101	0.00
41	P	Hexachlorocyclopentadiene	0.238	0.254	-6.7	99	0.00
42	S	2,4,6-Tribromophenol	0.254	0.249	2.0	97	0.00
43	C	2,4,6-Trichlorophenol	0.398	0.395	0.8	97	0.00
44		2,4,5-Trichlorophenol	0.403	0.399	1.0	100	0.00
45	S	2-Fluorobiphenyl	1.315	1.262	4.0	98	0.00
46		1,1'-Biphenyl	1.520	1.462	3.8	98	0.00
47		2-Chloronaphthalene	1.133	1.095	3.4	98	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141994.D
Acq On : 18 Mar 2025 14:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 15:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.328	0.310	5.5	94	0.00
49		Acenaphthylene	1.681	1.599	4.9	95	0.00
50		Dimethylphthalate	1.401	1.290	7.9	95	0.00
51		2,6-Dinitrotoluene	0.292	0.280	4.1	96	0.00
52	C	Acenaphthene	1.181	1.147	2.9	98	0.00
53		3-Nitroaniline	0.296	0.273	7.8	91	0.00
54	P	2,4-Dinitrophenol	0.139	0.166	-19.4	114	0.00
55		Dibenzofuran	1.688	1.575	6.7	95	0.00
56	P	4-Nitrophenol	0.223	0.218	2.2	92	0.00
57		2,4-Dinitrotoluene	0.381	0.364	4.5	95	0.00
58		Fluorene	1.302	1.192	8.4	95	0.00
59		2,3,4,6-Tetrachlorophenol	0.367	0.356	3.0	97	0.00
60		Diethylphthalate	1.397	1.260	9.8	92	0.00
61		4-Chlorophenyl-phenylether	0.679	0.634	6.6	96	0.00
62		4-Nitroaniline	0.288	0.264	8.3	89	0.00
63		Azobenzene	1.298	1.162	10.5	91	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	90	0.00
65		4,6-Dinitro-2-methylphenol	0.119	0.135	-13.4	100	0.00
66	c	n-Nitrosodiphenylamine	0.647	0.643	0.6	93	0.00
67		4-Bromophenyl-phenylether	0.251	0.255	-1.6	94	0.00
68		Hexachlorobenzene	0.275	0.284	-3.3	94	0.00
69		Atrazine	0.198	0.164	17.2	90	0.00
70	C	Pentachlorophenol	0.170	0.180	-5.9	91	0.00
71		Phenanthrene	1.080	1.041	3.6	90	0.00
72		Anthracene	1.084	1.028	5.2	88	0.00
73		Carbazole	0.935	0.859	8.1	85	0.00
74		Di-n-butylphthalate	1.240	1.098	11.5	84	0.00
75	C	Fluoranthene	1.146	0.988	13.8	80	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	87	0.00
77		Benzidine	0.279	0.271	2.9	65	0.00
78		Pyrene	1.730	1.476	14.7	80	0.00
79	S	Terphenyl-d14	1.353	1.155	14.6	79	0.00
80		Butylbenzylphthalate	0.677	0.591	12.7	78	0.00
81		Benzo(a)anthracene	1.312	1.257	4.2	86	0.00
82		3,3'-Dichlorobenzidine	0.379	0.412	-8.7	96	0.00
83		Chrysene	1.190	1.152	3.2	88	0.00
84		Bis(2-ethylhexyl)phthalate	0.934	0.859	8.0	83	0.00
85	c	Di-n-octyl phthalate	1.299	1.414	-8.9	97	0.00
86	I	Perylene-d12	1.000	1.000	0.0	114	0.00
87		Indeno(1,2,3-cd)pyrene	1.294	1.294	0.0	115	0.02
88		Benzo(b)fluoranthene	1.371	1.168	14.8	110	0.00
89		Benzo(k)fluoranthene	1.173	1.086	7.4	103	0.00
90	C	Benzo(a)pyrene	1.073	1.014	5.5	112	0.00
91		Dibenzo(a,h)anthracene	1.067	1.069	-0.2	114	0.01
92		Benzo(g,h,i)perylene	1.055	1.051	0.4	113	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141994.D
Acq On : 18 Mar 2025 14:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 15:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141994.D
Acq On : 18 Mar 2025 14:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 15:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	108	0.00
2		1,4-Dioxane	40.000	38.057	4.9	102	-0.02
3		Pyridine	40.000	37.612	6.0	102	-0.01
4		n-Nitrosodimethylamine	40.000	37.190	7.0	101	-0.01
5	S	2-Fluorophenol	80.000	75.712	5.4	106	0.00
6		Aniline	40.000	34.142	14.6	94	0.00
7	S	Phenol-d6	80.000	73.157	8.6	104	0.00
8		2-Chlorophenol	40.000	37.396	6.5	106	0.00
9		Benzaldehyde	40.000	34.582	13.5	102	0.00
10	C	Phenol	40.000	36.253	9.4	102	0.00
11		bis(2-Chloroethyl)ether	40.000	36.278	9.3	103	0.00
12		1,3-Dichlorobenzene	40.000	38.016	5.0	107	0.00
13	C	1,4-Dichlorobenzene	40.000	38.144	4.6	107	0.00
14		1,2-Dichlorobenzene	40.000	38.052	4.9	107	0.00
15		Benzyl Alcohol	40.000	36.151	9.6	101	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	33.511	16.2	96	0.00
17		2-Methylphenol	40.000	36.301	9.2	102	0.00
18		Hexachloroethane	40.000	37.978	5.1	108	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	33.194	17.0	96	0.00
20		3+4-Methylphenols	40.000	35.093	12.3	99	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	102	0.00
22		Acetophenone	40.000	37.130	7.2	99	0.00
23	S	Nitrobenzene-d5	80.000	77.299	3.4	101	0.00
24		Nitrobenzene	40.000	38.584	3.5	101	0.00
25		Isophorone	40.000	36.146	9.6	97	0.00
26	C	2-Nitrophenol	40.000	41.542	-3.9	105	0.00
27		2,4-Dimethylphenol	40.000	37.881	5.3	100	0.00
28		bis(2-Chloroethoxy)methane	40.000	36.335	9.2	98	0.00
29	C	2,4-Dichlorophenol	40.000	38.255	4.4	101	0.00
30		1,2,4-Trichlorobenzene	40.000	38.955	2.6	105	0.00
31		Naphthalene	40.000	37.302	6.7	100	0.00
32		Benzoic acid	40.000	43.547	-8.9	112	0.00
33		4-Chloroaniline	40.000	34.802	13.0	92	0.00
34	C	Hexachlorobutadiene	40.000	40.503	-1.3	108	0.00
35		Caprolactam	40.000	35.601	11.0	98	0.00
36	C	4-Chloro-3-methylphenol	40.000	36.564	8.6	97	0.00
37		2-Methylnaphthalene	40.000	36.733	8.2	99	0.00
38		1-Methylnaphthalene	40.000	36.494	8.8	99	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	98	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.068	-0.2	101	0.00
41	P	Hexachlorocyclopentadiene	40.000	42.681	-6.7	99	0.00
42	S	2,4,6-Tribromophenol	80.000	78.588	1.8	97	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.744	0.6	97	0.00
44		2,4,5-Trichlorophenol	40.000	39.608	1.0	100	0.00
45	S	2-Fluorobiphenyl	80.000	76.752	4.1	98	0.00
46		1,1'-Biphenyl	40.000	38.496	3.8	98	0.00
47		2-Chloronaphthalene	40.000	38.659	3.4	98	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141994.D
Acq On : 18 Mar 2025 14:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 15:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	37.836	5.4	94	0.00
49		Acenaphthylene	40.000	38.061	4.8	95	0.00
50		Dimethylphthalate	40.000	36.846	7.9	95	0.00
51		2,6-Dinitrotoluene	40.000	38.350	4.1	96	0.00
52	C	Acenaphthene	40.000	38.848	2.9	98	0.00
53		3-Nitroaniline	40.000	36.895	7.8	91	0.00
54	P	2,4-Dinitrophenol	40.000	43.339	-8.3	114	0.00
55		Dibenzofuran	40.000	37.335	6.7	95	0.00
56	P	4-Nitrophenol	40.000	39.017	2.5	92	0.00
57		2,4-Dinitrotoluene	40.000	38.180	4.6	95	0.00
58		Fluorene	40.000	36.643	8.4	95	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	38.874	2.8	97	0.00
60		Diethylphthalate	40.000	36.095	9.8	92	0.00
61		4-Chlorophenyl-phenylether	40.000	37.374	6.6	96	0.00
62		4-Nitroaniline	40.000	36.632	8.4	89	0.00
63		Azobenzene	40.000	35.814	10.5	91	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	90	0.00
65		4,6-Dinitro-2-methylphenol	40.000	45.411	-13.5	100	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.770	0.6	93	0.00
67		4-Bromophenyl-phenylether	40.000	40.653	-1.6	94	0.00
68		Hexachlorobenzene	40.000	41.181	-3.0	94	0.00
69		Atrazine	40.000	33.111	17.2	90	0.00
70	C	Pentachlorophenol	40.000	42.469	-6.2	91	0.00
71		Phenanthrene	40.000	38.531	3.7	90	0.00
72		Anthracene	40.000	37.946	5.1	88	0.00
73		Carbazole	40.000	36.745	8.1	85	0.00
74		Di-n-butylphthalate	40.000	35.428	11.4	84	0.00
75	C	Fluoranthene	40.000	34.474	13.8	80	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	87	0.00
77		Benzidine	40.000	38.829	2.9	65	0.00
78		Pyrene	40.000	34.121	14.7	80	0.00
79	S	Terphenyl-d14	80.000	68.295	14.6	79	0.00
80		Butylbenzylphthalate	40.000	34.910	12.7	78	0.00
81		Benzo(a)anthracene	40.000	38.315	4.2	86	0.00
82		3,3'-Dichlorobenzidine	40.000	43.496	-8.7	96	0.00
83		Chrysene	40.000	38.748	3.1	88	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	36.815	8.0	83	0.00
85	c	Di-n-octyl phthalate	40.000	43.530	-8.8	97	0.00
86	I	Perylene-d12	20.000	20.000	0.0	114	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	39.997	0.0	115	0.02
88		Benzo(b)fluoranthene	40.000	34.071	14.8	110	0.00
89		Benzo(k)fluoranthene	40.000	37.042	7.4	103	0.00
90	C	Benzo(a)pyrene	40.000	37.800	5.5	112	0.00
91		Dibenzo(a,h)anthracene	40.000	40.065	-0.2	114	0.01
92		Benzo(g,h,i)perylene	40.000	39.857	0.4	113	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141994.D
Acq On : 18 Mar 2025 14:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 18 15:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

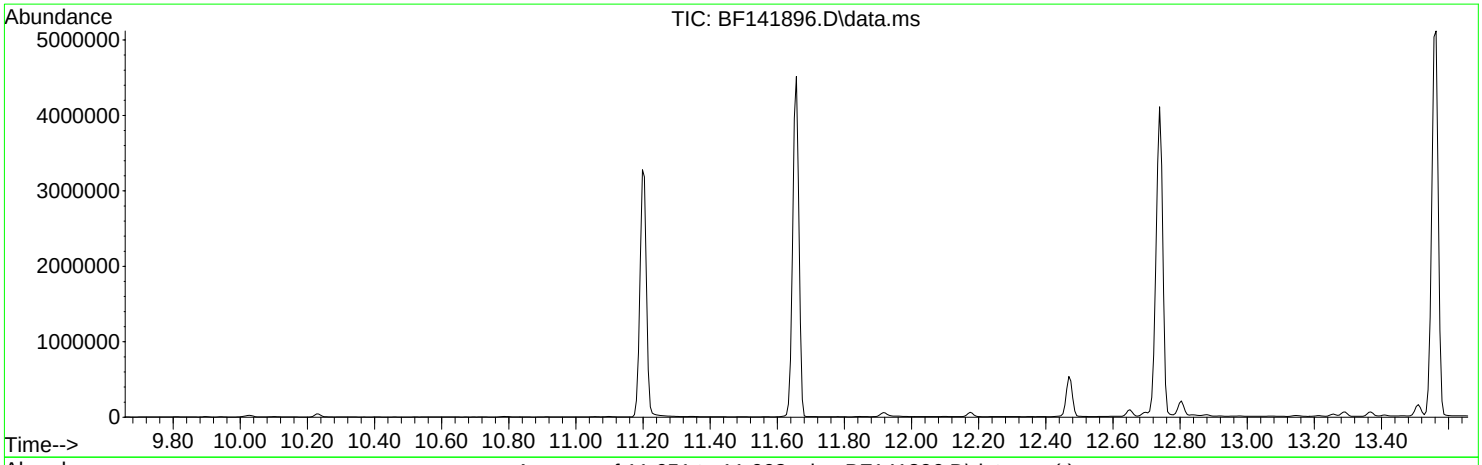
QC SAMPLE DATA

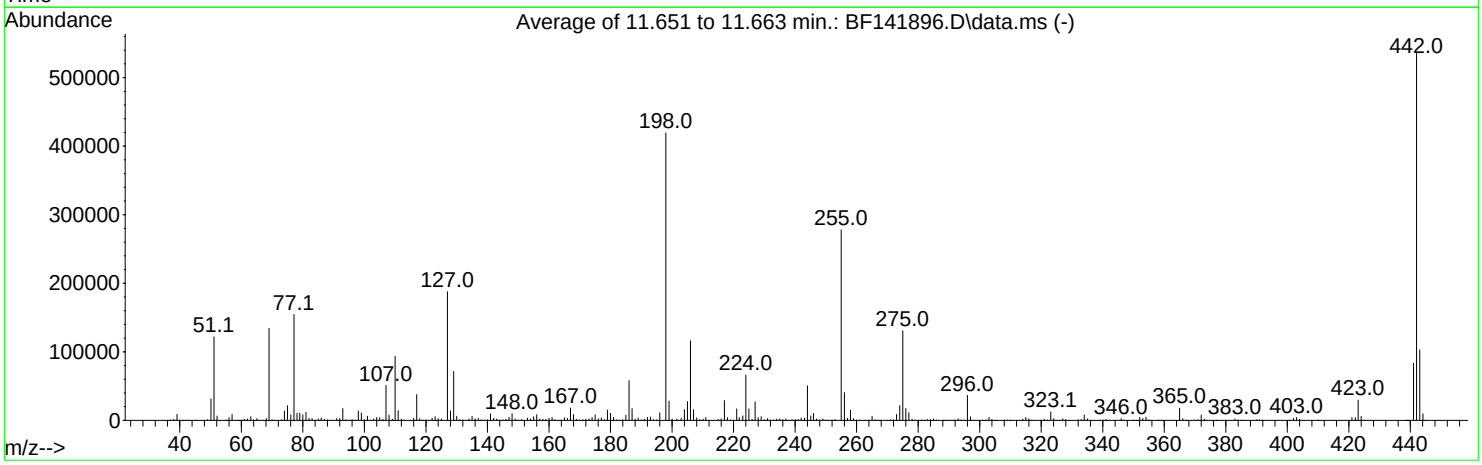
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141896.D
Acq On : 10 Mar 2025 10:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 15:46:22 2025





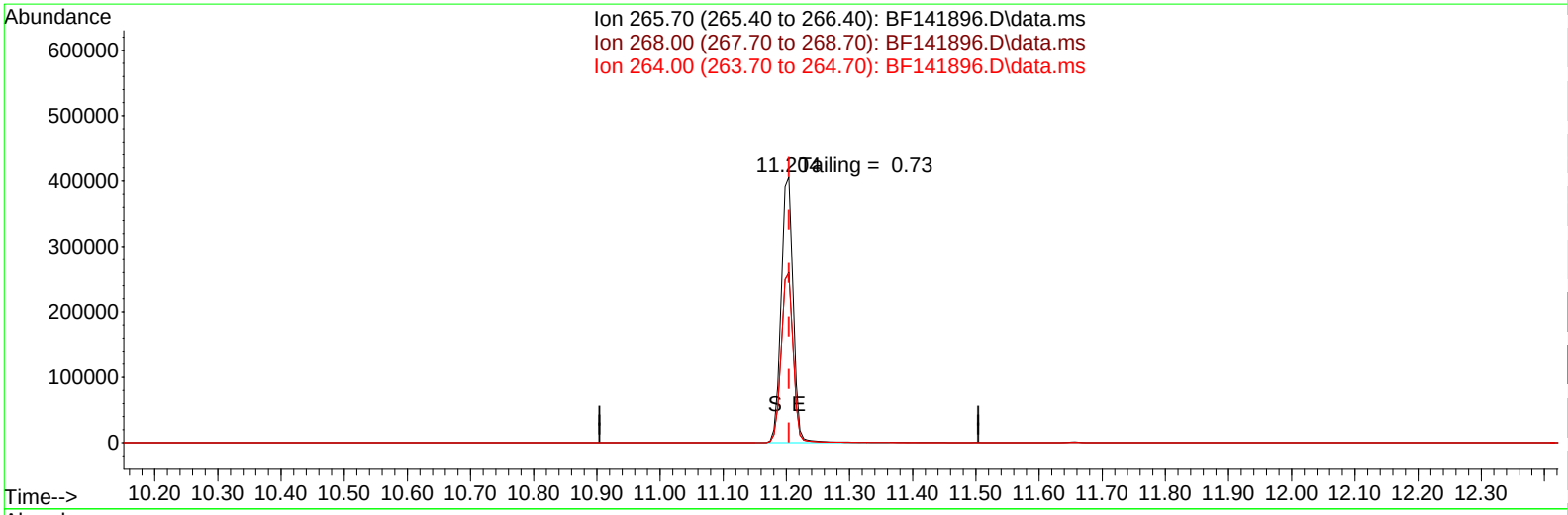
AutoFind: Scans 1625, 1626, 1627; Background Corrected with Scan 1617

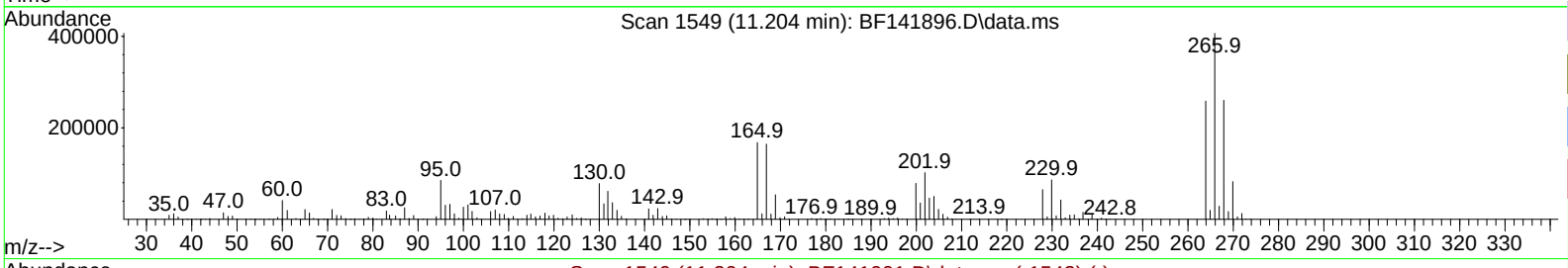
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	29.1	121957	PASS
68	69	0.00	2	1.9	2599	PASS
69	198	0.00	100	32.0	134239	PASS
70	69	0.00	2	0.7	949	PASS
127	198	10	80	44.8	187627	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	419221	PASS
199	198	5	9	6.7	28280	PASS
275	198	10	60	31.2	130819	PASS
365	198	1	100	4.2	17803	PASS
441	198	0.01	100	19.9	83389	PASS
442	442	50	100	100.0	536640	PASS
443	442	15	24	19.2	102888	PASS

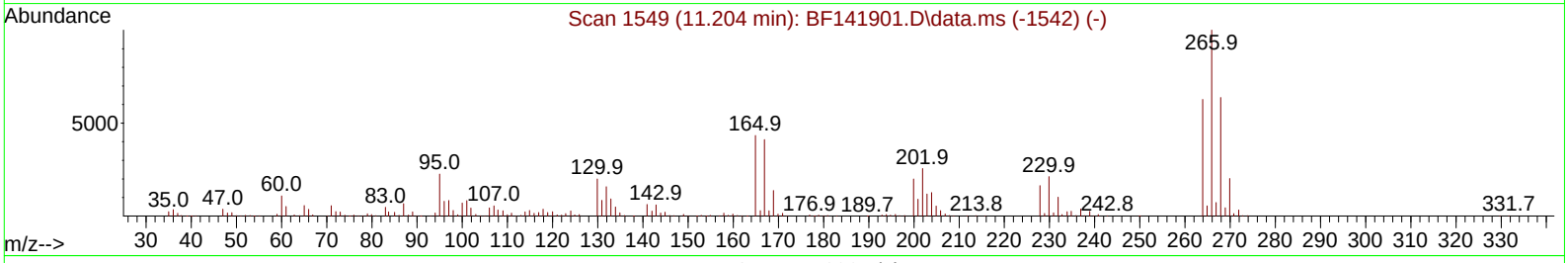
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141896.D
Acq On : 10 Mar 2025 10:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 10 16:16:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration







TIC: BF141896.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.000) 118650.09 ng

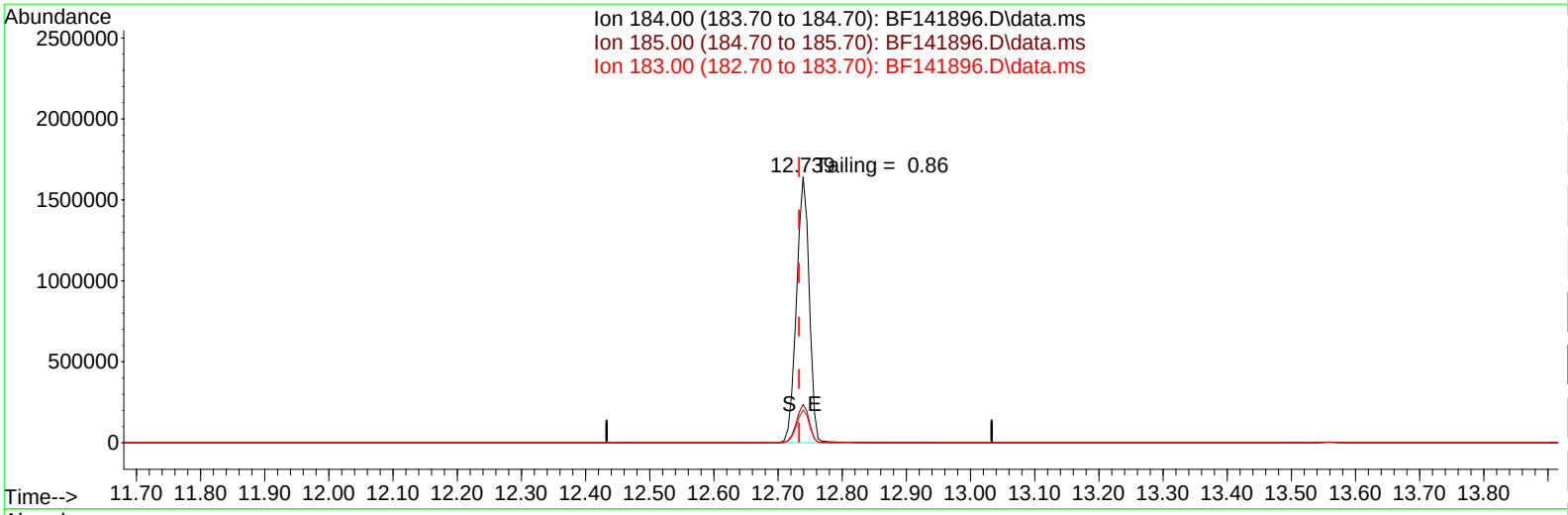
response 544757

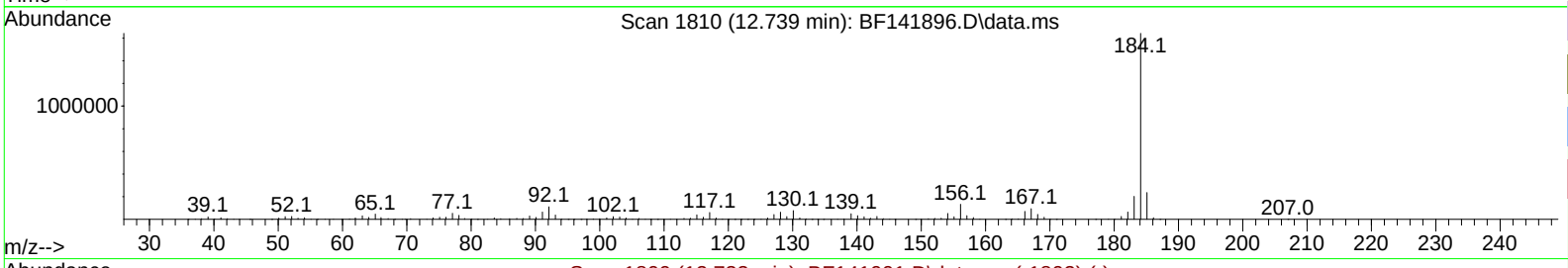
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.80	64.05
264.00	62.70	63.55
0.00	0.00	0.00

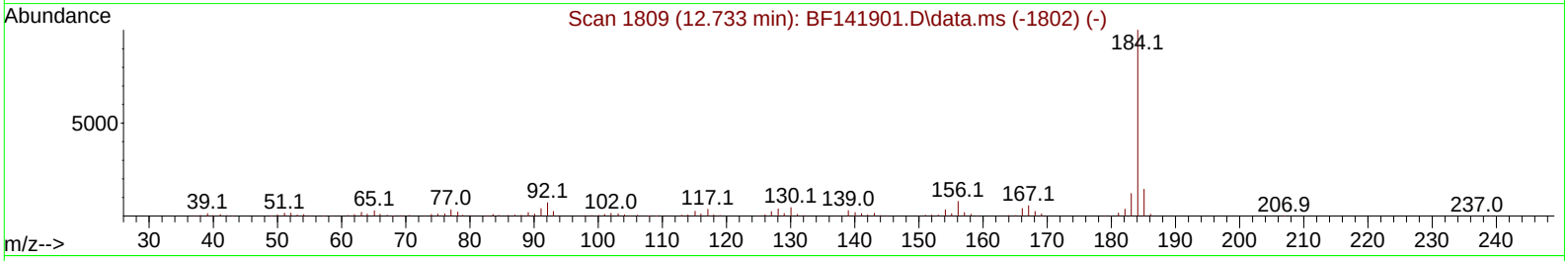
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141896.D
Acq On : 10 Mar 2025 10:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 10 16:16:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration







TIC: BF141896.D\data.ms

(77) Benzidine

12.739min (+ 0.006) 203796.44 ng

response 2274676

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.38
183.00	12.10	12.32
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

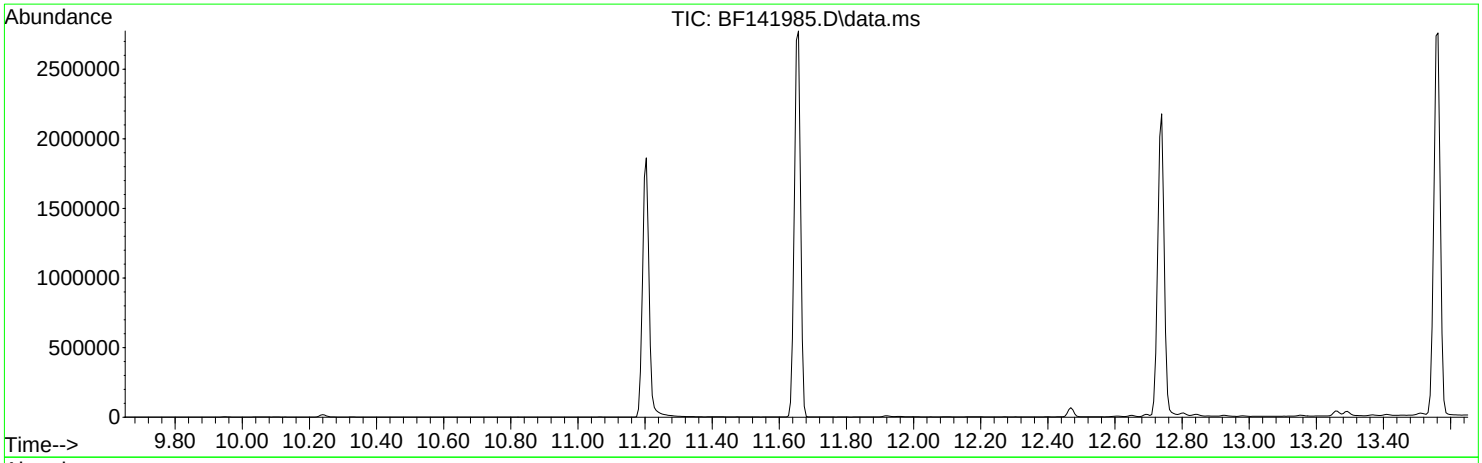
Date	Instrument Name	DFTPP Data File
3/10/2025	BNA_F	BF141896.D
Compound Name	**Response**	**Retention Time**
DDT	1358235	13.562
DDD	20094	13.292
DDE	930	12.921
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
21024	1379259	1.52

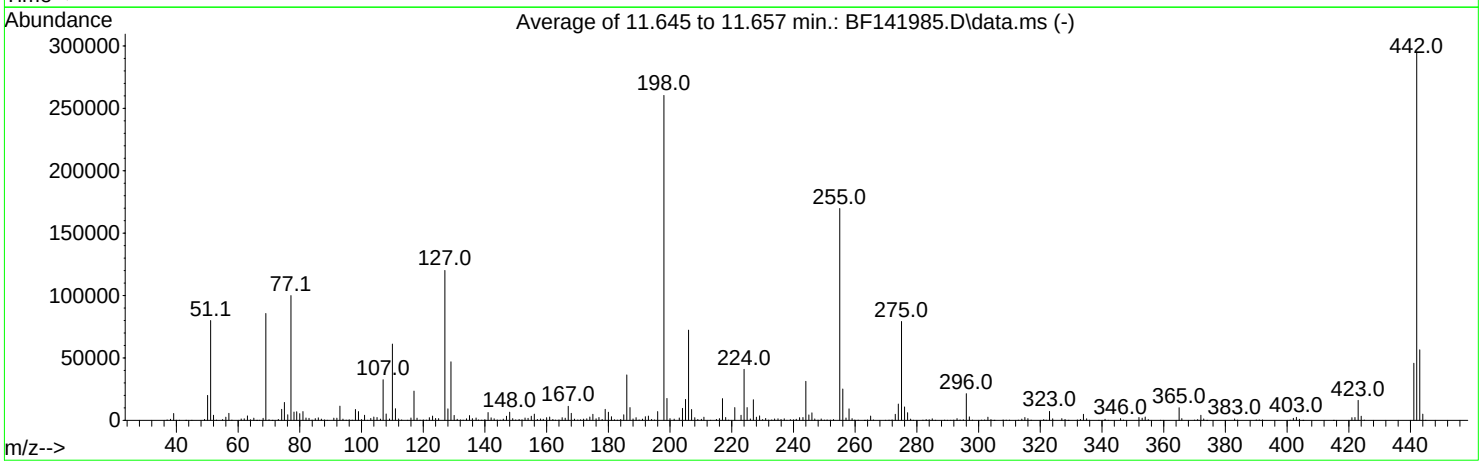
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141985.D
Acq On : 18 Mar 2025 09:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 15:46:22 2025





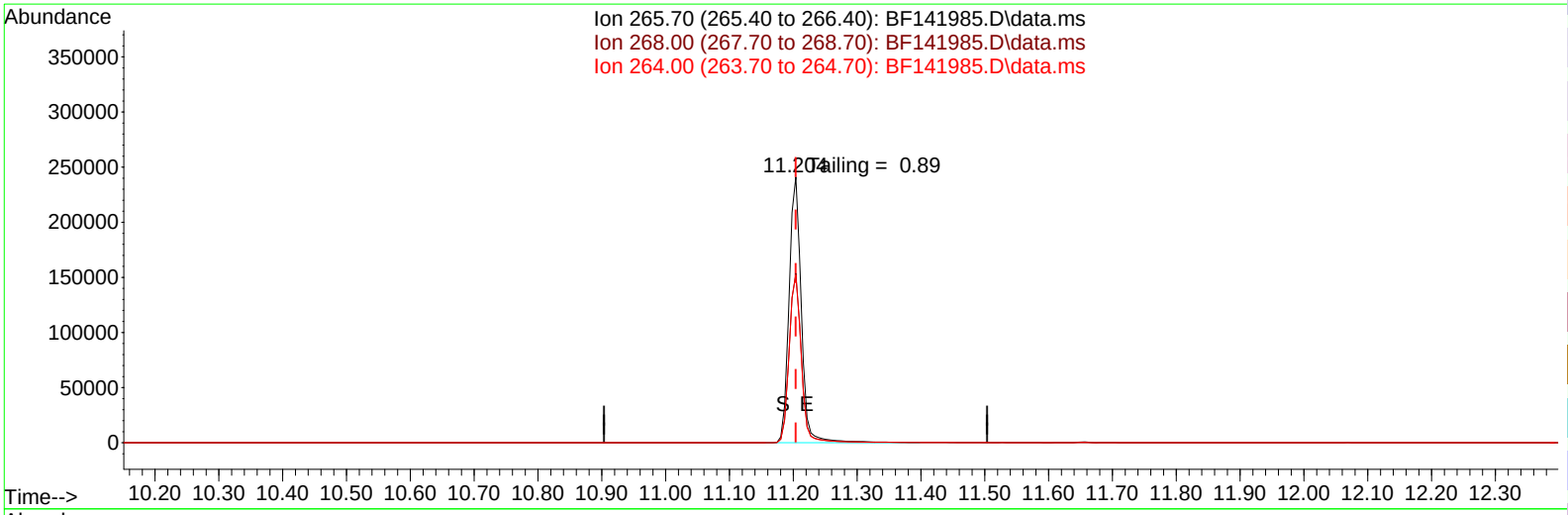
AutoFind: Scans 1624, 1625, 1626; Background Corrected with Scan 1618

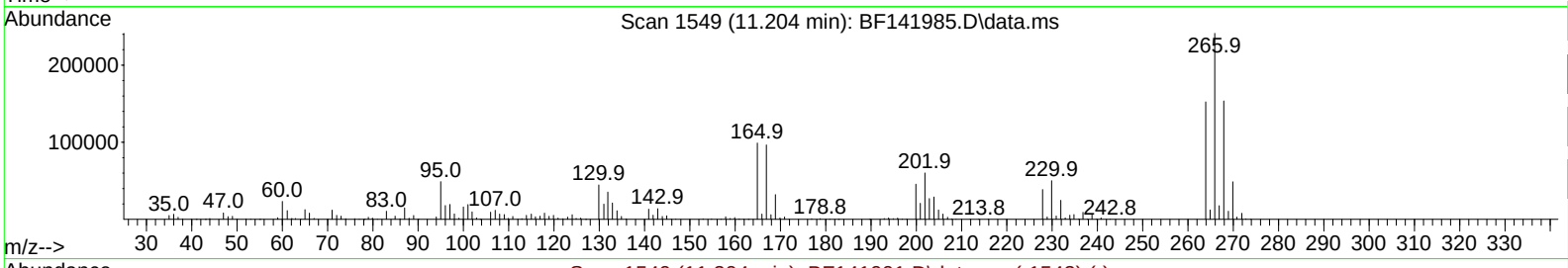
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.7	79971	PASS
68	69	0.00	2	1.9	1651	PASS
69	198	0.00	100	32.9	85619	PASS
70	69	0.00	2	0.5	469	PASS
127	198	10	80	46.1	120128	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	260395	PASS
199	198	5	9	6.8	17608	PASS
275	198	10	60	30.4	79213	PASS
365	198	1	100	3.9	10146	PASS
441	198	0.01	100	17.6	45773	PASS
442	442	50	100	100.0	294741	PASS
443	442	15	24	19.2	56528	PASS

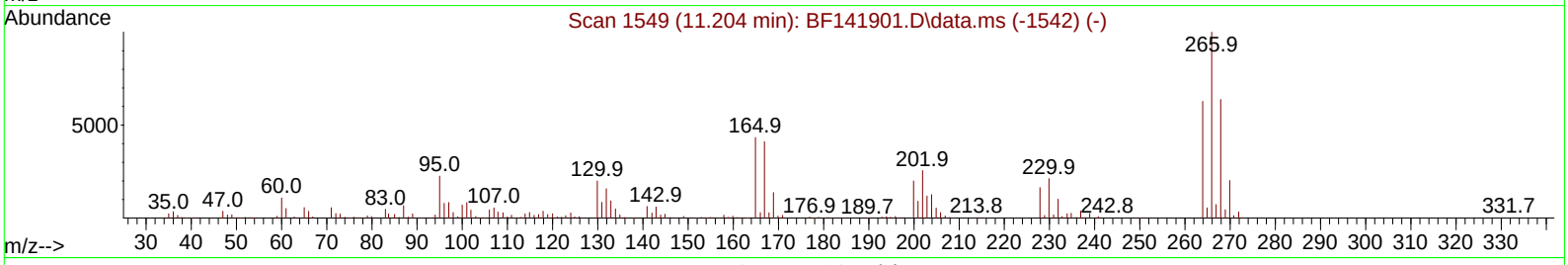
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141985.D
Acq On : 18 Mar 2025 09:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 18 11:21:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration







TIC: BF141985.D\data.ms

(70) Pentachlorophenol (C)

11.204min (+ 0.000) 55437.20 ng

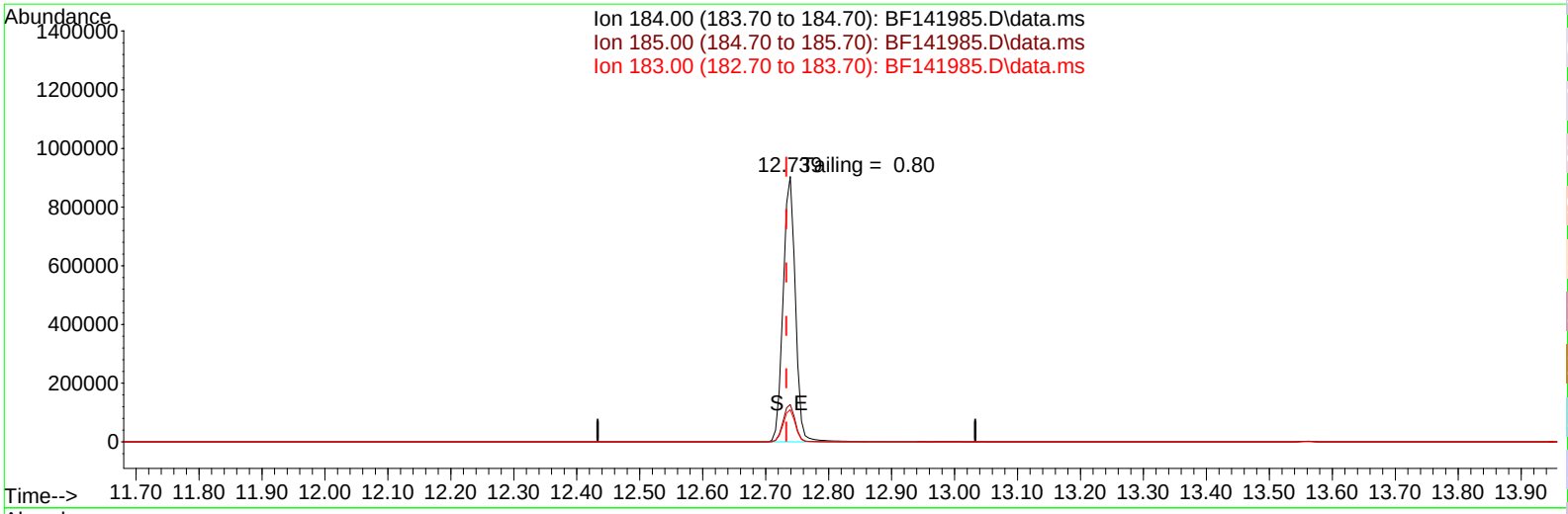
response 323218

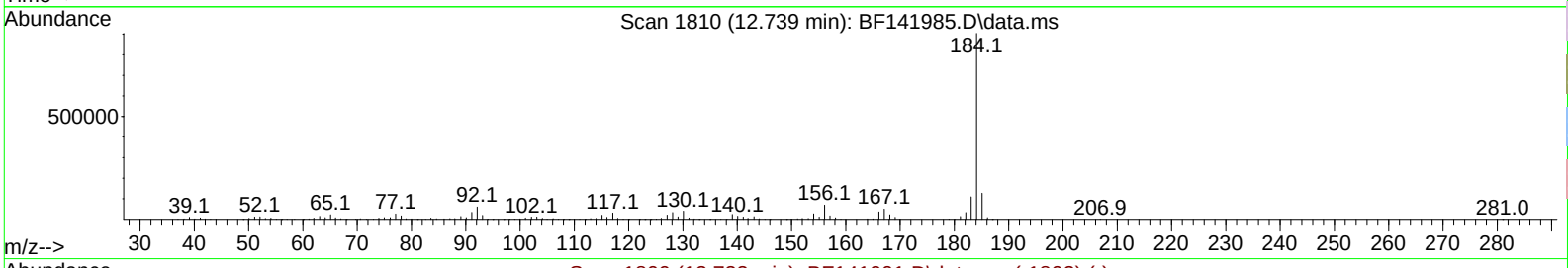
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.80	63.67
264.00	62.70	63.14
0.00	0.00	0.00

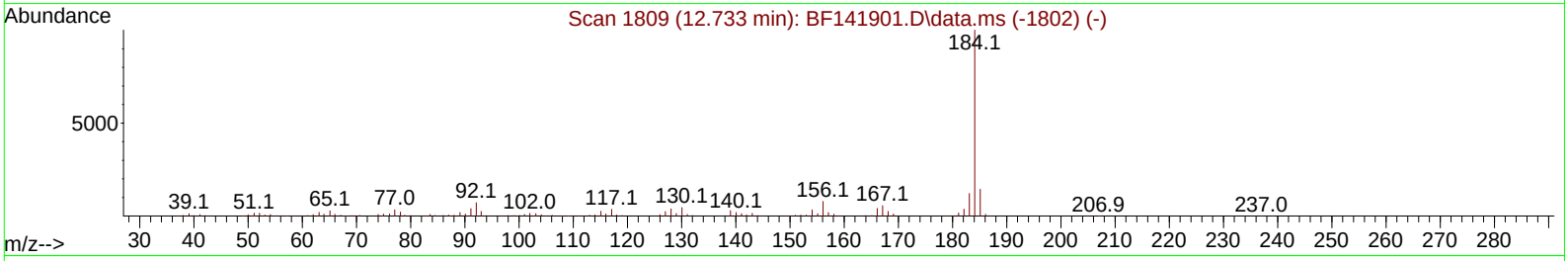
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141985.D
Acq On : 18 Mar 2025 09:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 18 11:21:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration







TIC: BF141985.D\data.ms

(77) Benzidine

12.739min (+ 0.006) 128113.33 ng

response 1226172

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.06
183.00	12.10	12.12
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/18/2025	BNA_F	BF141985.D
Compound Name	**Response**	**Retention Time**
DDT	746688	13.563
DDD	17727	13.263
DDE	2161	12.927
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
19888	766576	2.59

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	
Client Sample ID:	PB167168BL	SDG No.:	Q1569
Lab Sample ID:	PB167168BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141987.D	1	03/17/25 10:15	03/18/25 10:30	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	4.00	U	1.30	4.00	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	4.00	U	0.53	4.00	5.00	ug/L
95-48-7	2-Methylphenol	4.00	U	1.10	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	8.00	U	1.10	8.00	10.0	ug/L
67-72-1	Hexachloroethane	4.00	U	0.65	4.00	5.00	ug/L
98-95-3	Nitrobenzene	4.00	U	0.76	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	4.00	U	0.54	4.00	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	4.00	U	0.51	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	4.00	U	0.62	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	4.00	U	1.20	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	4.00	U	0.52	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	8.00	U	1.60	8.00	10.0	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	137		19 - 119		92%	SPK: 150
13127-88-3	Phenol-d6	132		10 - 130		88%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.0		44 - 120		97%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.4		44 - 119		96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		43 - 140		99%	SPK: 150
1718-51-0	Terphenyl-d14	101		50 - 134		101%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	150000	6.881				
1146-65-2	Naphthalene-d8	582000	8.157				
15067-26-2	Acenaphthene-d10	329000	9.916				
1517-22-2	Phenanthrene-d10	588000	11.398				
1719-03-5	Chrysene-d12	399000	14.039				
1520-96-3	Perylene-d12	350000	15.515				

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

Report of Analysis

Client:	Weston Solutions			Date Collected:	
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169			Date Received:	
Client Sample ID:	PB167168BL			SDG No.:	Q1569
Lab Sample ID:	PB167168BL			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141987.D	1	03/17/25 10:15	03/18/25 10:30	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141987.D
Acq On : 18 Mar 2025 10:30
Operator : RC/JU
Sample : PB167168BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167168BL

Quant Time: Mar 18 11:22:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

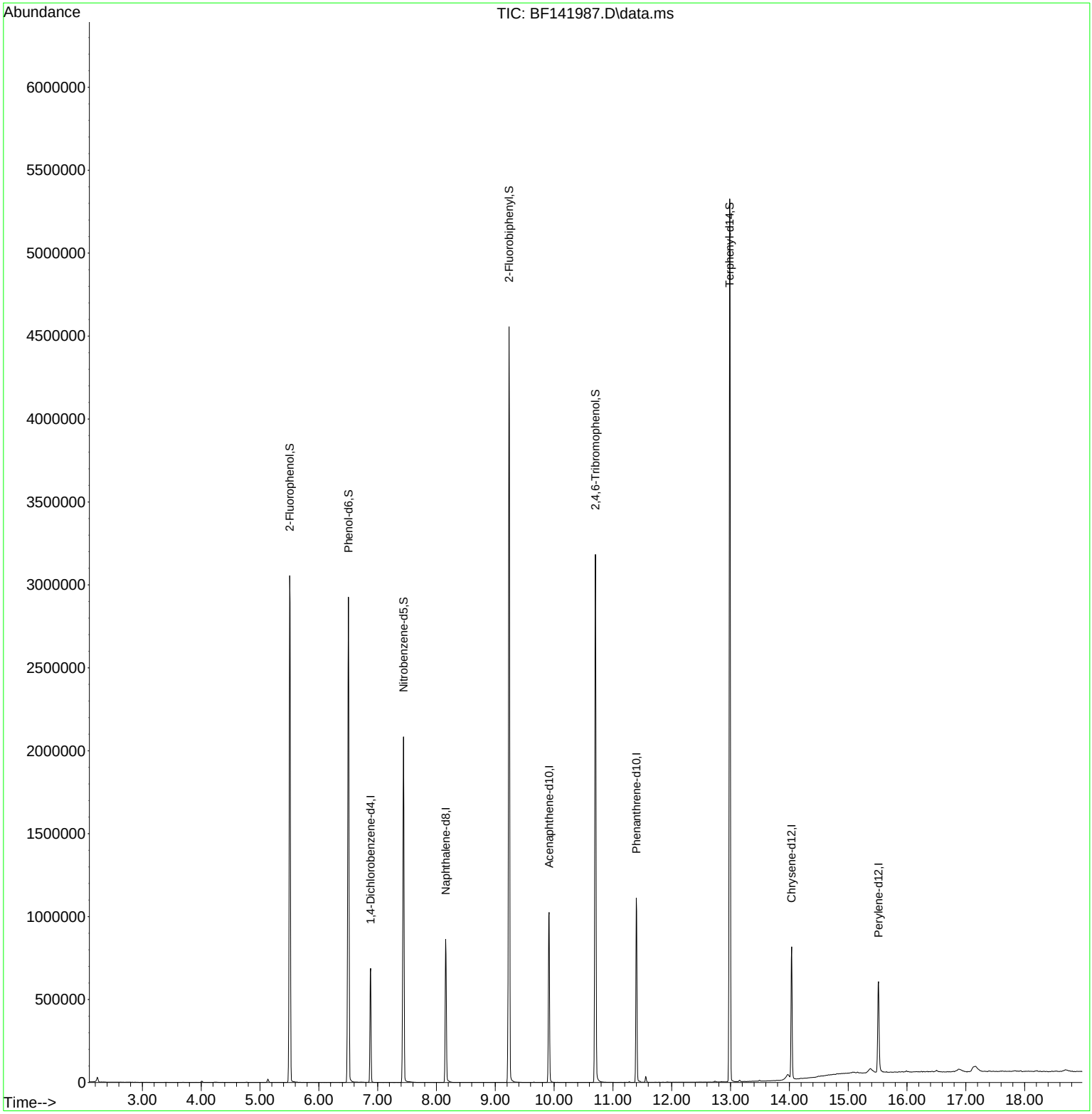
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	150161	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	582481	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	328657	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	587512	20.000	ng	0.00
76) Chrysene-d12	14.039	240	398767	20.000	ng	0.00
86) Perylene-d12	15.515	264	350327	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1235124	137.277	ng	0.01
7) Phenol-d6	6.504	99	1508179	131.655	ng	0.00
23) Nitrobenzene-d5	7.439	82	1004203	97.020	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	621152	148.977	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	2084258	96.446	ng	0.00
79) Terphenyl-d14	12.986	244	2715937	100.695	ng	0.00
Target Compounds						Qvalue

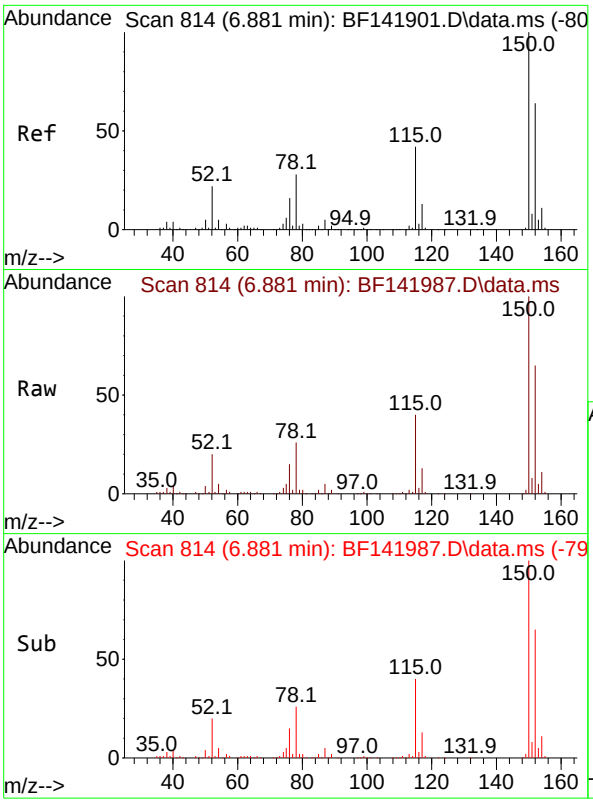
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141987.D
Acq On : 18 Mar 2025 10:30
Operator : RC/JU
Sample : PB167168BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167168BL

Quant Time: Mar 18 11:22:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration



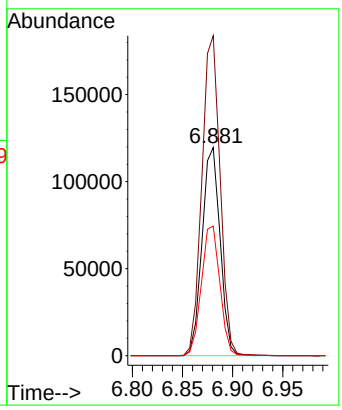


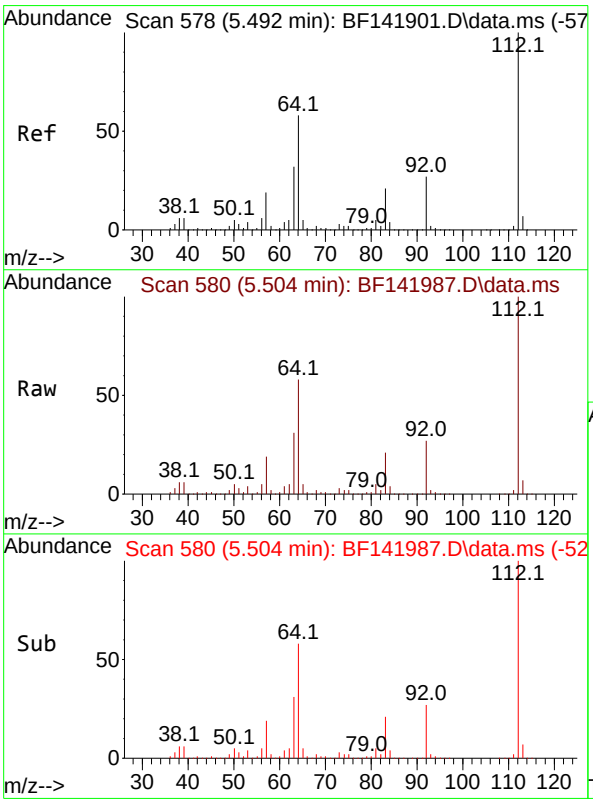
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Instrument :
BNA_F
ClientSampleId :
PB167168BL

Tgt Ion:152 Resp: 150161

Ion	Ratio	Lower	Upper
152	100		
150	153.7	127.4	191.2
115	62.2	51.9	77.9

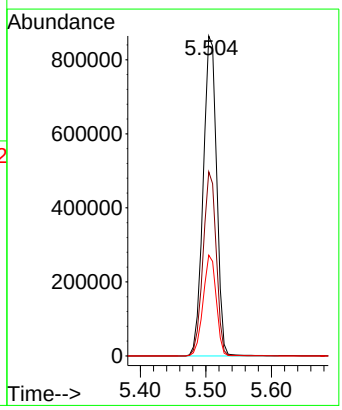


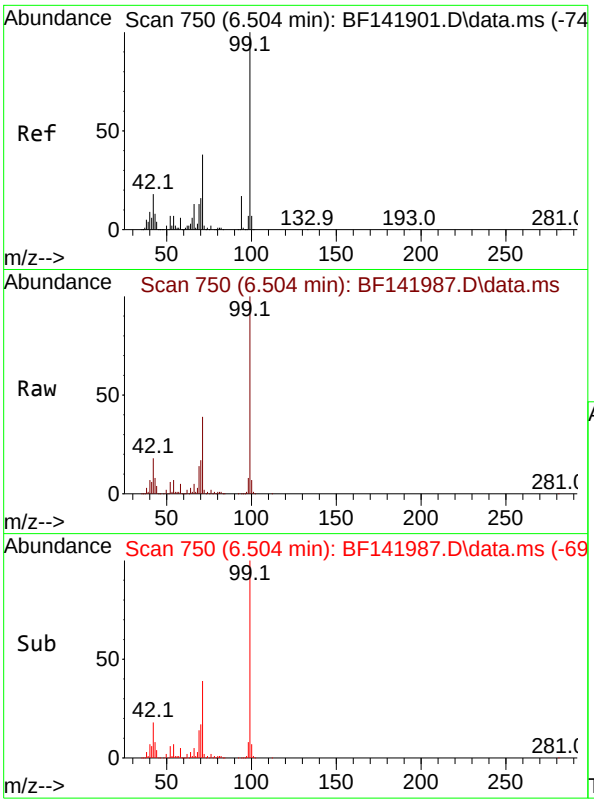


#5
2-Fluorophenol
Concen: 137.277 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Tgt Ion:112 Resp: 1235124

Ion	Ratio	Lower	Upper
112	100		
64	57.5	46.5	69.7
63	31.5	25.4	38.2



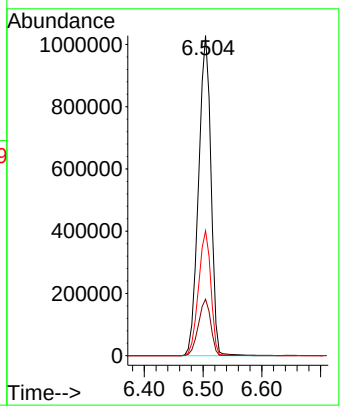


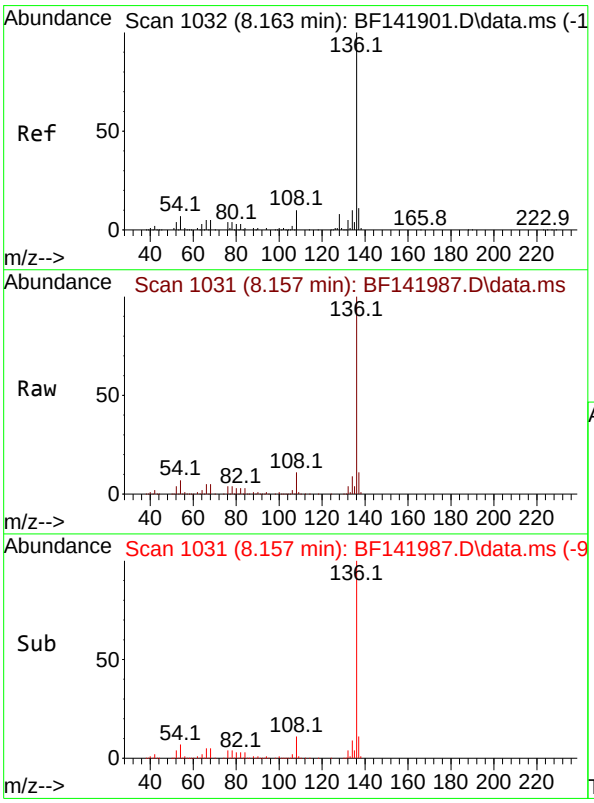
#7
Phenol-d6
Concen: 131.655 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Instrument :
BNA_F
ClientSampleId :
PB167168BL

Tgt Ion: 99 Resp: 1508179

Ion	Ratio	Lower	Upper
99	100		
42	17.6	14.6	21.8
71	39.1	30.8	46.2

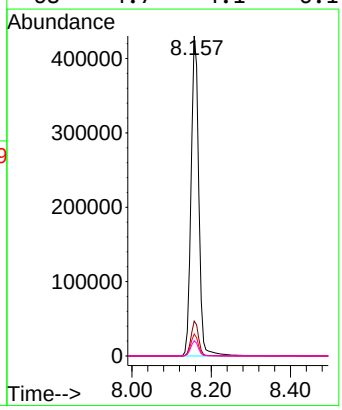


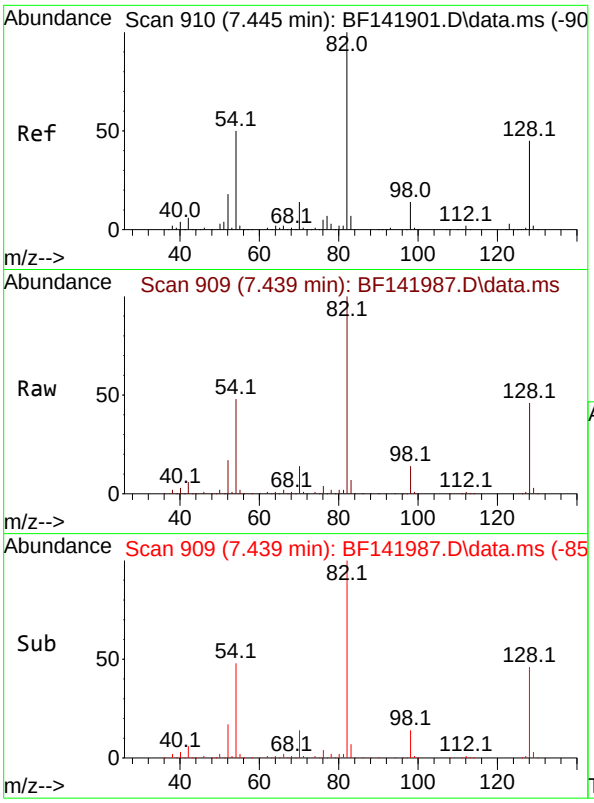


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Tgt Ion:136 Resp: 582481

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	6.8	5.8	8.8
68	4.7	4.1	6.1



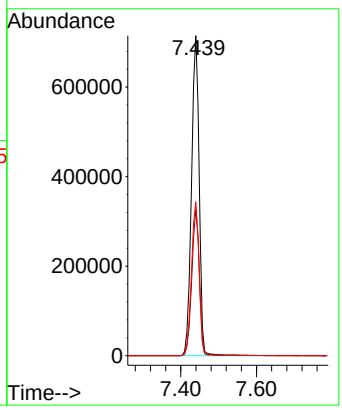


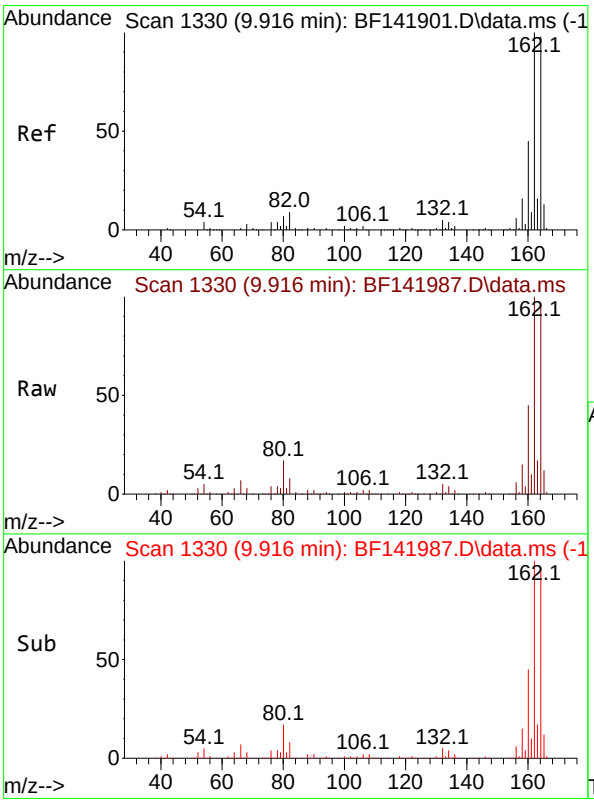
#23
Nitrobenzene-d5
Concen: 97.020 ng
RT: 7.439 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Instrument :
BNA_F
ClientSampleId :
PB167168BL

Tgt Ion: 82 Resp: 1004203

Ion	Ratio	Lower	Upper
82	100		
128	45.7	36.0	54.0
54	48.1	39.6	59.4

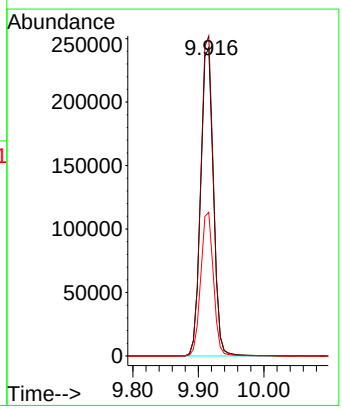


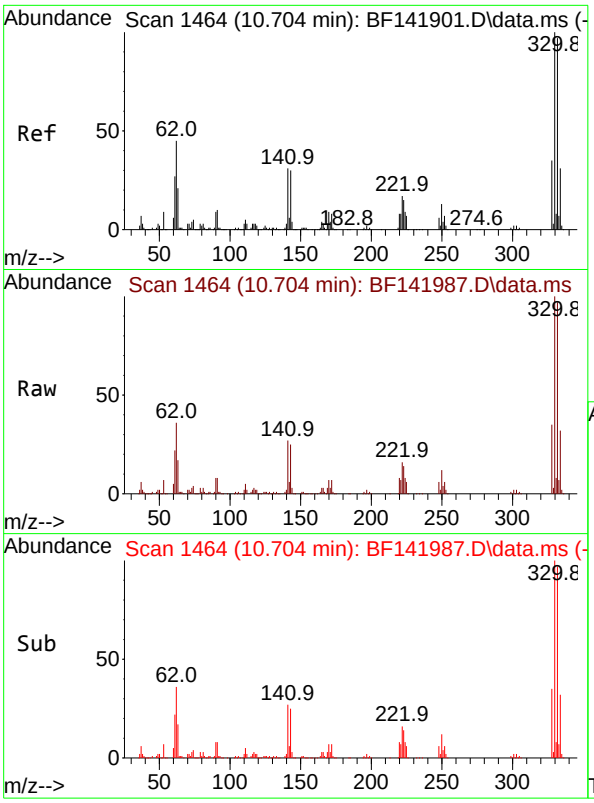


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Tgt Ion:164 Resp: 328657

Ion	Ratio	Lower	Upper
164	100		
162	103.8	81.8	122.6
160	46.6	36.7	55.1



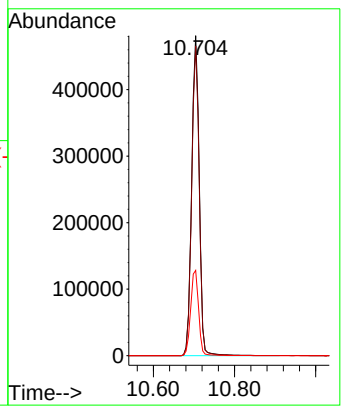


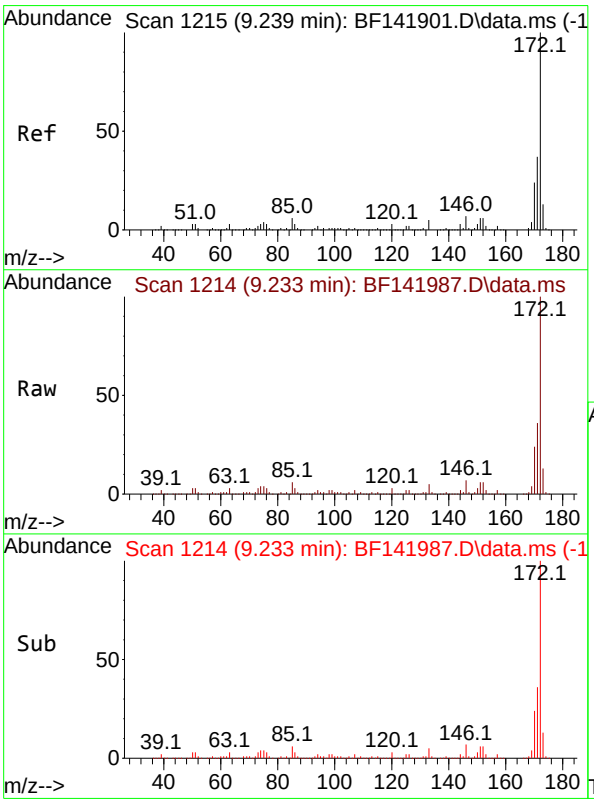
#42
2,4,6-Tribromophenol
Concen: 148.977 ng
RT: 10.704 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Instrument :
BNA_F
ClientSampleId :
PB167168BL

Tgt Ion:330 Resp: 621152

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.6	116.4
141	28.2	24.7	37.1

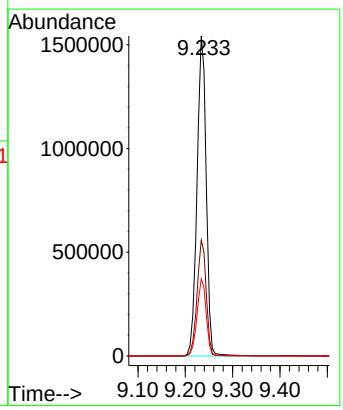


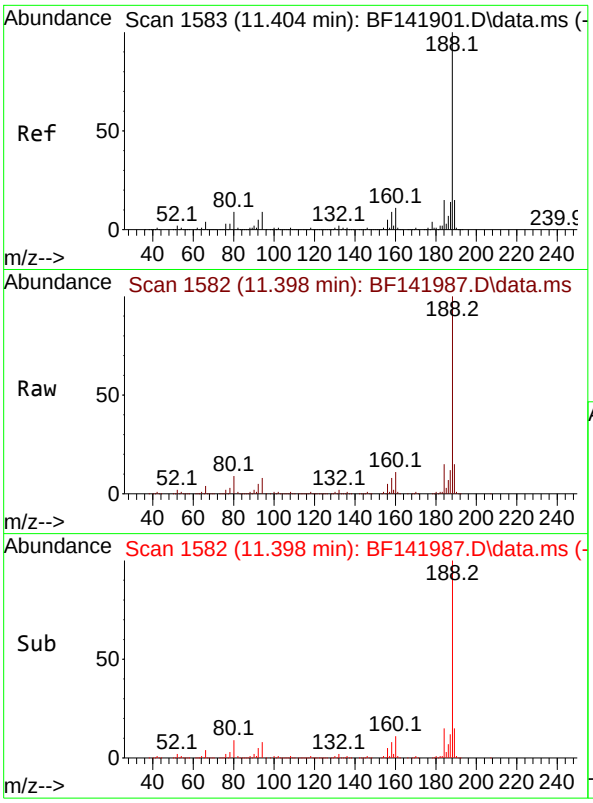


#45
2-Fluorobiphenyl
Concen: 96.446 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Tgt Ion:172 Resp: 2084258

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.3	43.9
170	24.1	19.4	29.0



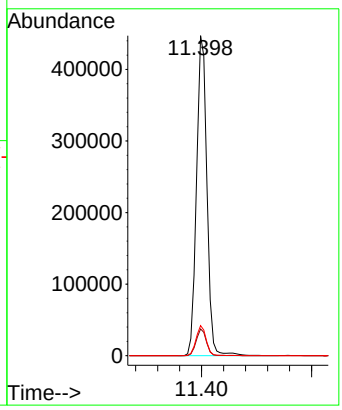


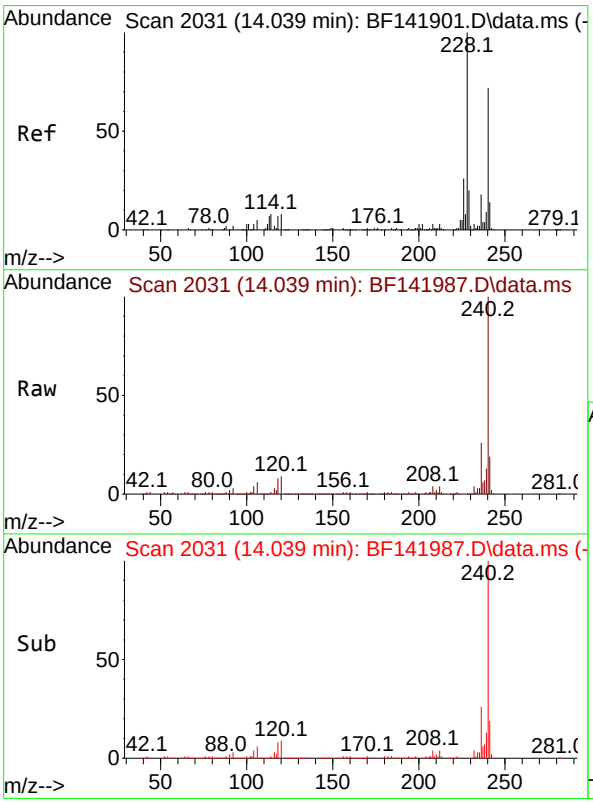
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Instrument :
BNA_F
ClientSampleId :
PB167168BL

Tgt Ion:188 Resp: 587512

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.8	10.2
80	9.4	7.6	11.4

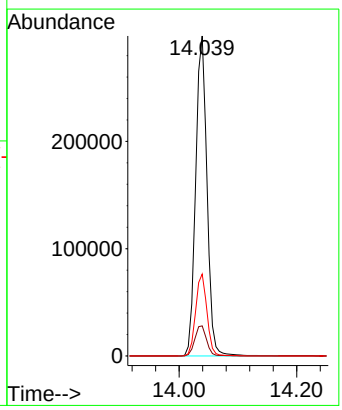


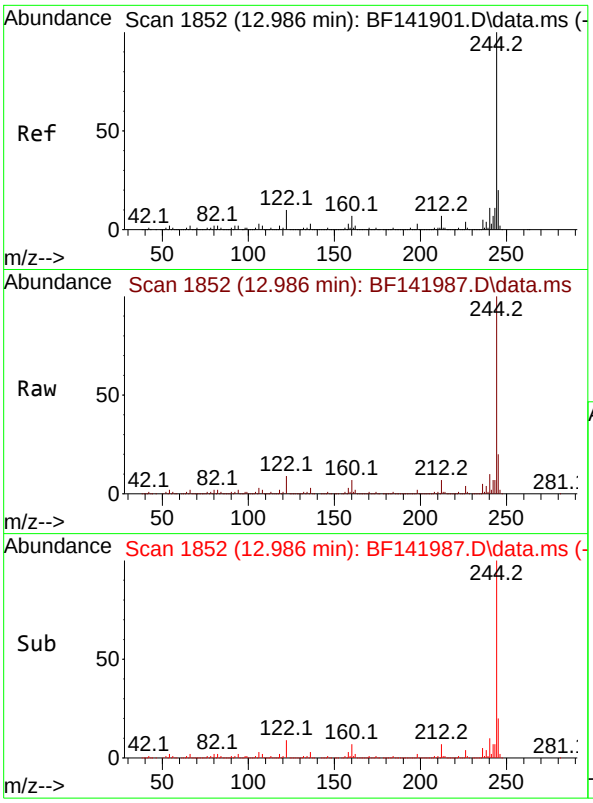


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Tgt Ion:240 Resp: 398767

Ion	Ratio	Lower	Upper
240	100		
120	9.4	8.4	12.6
236	25.6	20.5	30.7



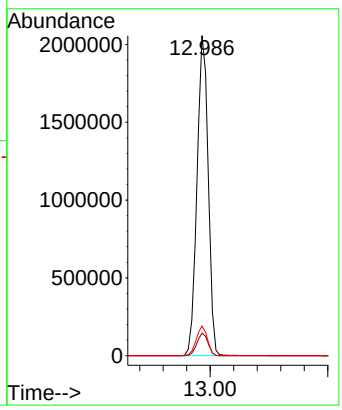


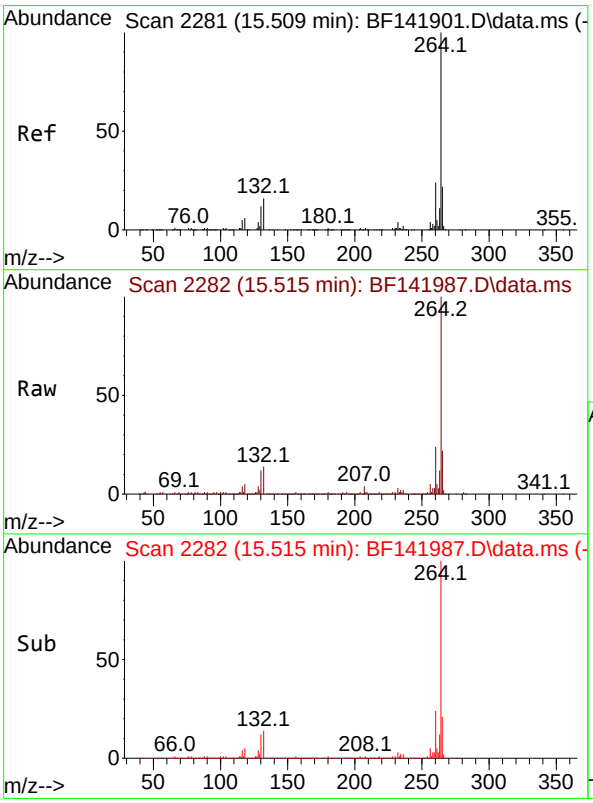
#79
Terphenyl-d14
Concen: 100.695 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Instrument :
BNA_F
ClientSampleId :
PB167168BL

Tgt Ion:244 Resp: 2715937

Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	9.2	7.7	11.5

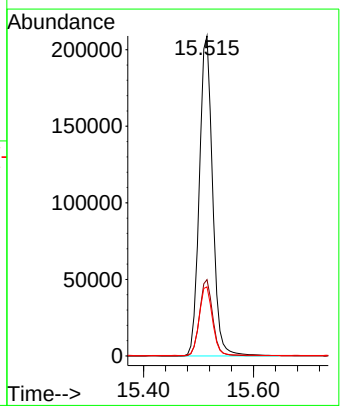




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF141987.D
Acq: 18 Mar 2025 10:30

Tgt Ion:264 Resp: 350327

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	21.6	17.5	26.3



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

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	
Client Sample ID:	PB167168BS	SDG No.:	Q1569
Lab Sample ID:	PB167168BS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141988.D	1	03/17/25 10:15	03/18/25 10:59	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	40.0		1.30	4.00	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	45.5		0.53	4.00	5.00	ug/L
95-48-7	2-Methylphenol	45.8		1.10	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	44.7		1.10	8.00	10.0	ug/L
67-72-1	Hexachloroethane	44.6		0.65	4.00	5.00	ug/L
98-95-3	Nitrobenzene	44.6		0.76	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.1		0.54	4.00	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	45.5		0.51	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.9		0.62	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	47.6		1.20	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	48.3		0.52	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	93.4	E	1.60	8.00	10.0	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	140		19 - 119		93%	SPK: 150
13127-88-3	Phenol-d6	135		10 - 130		90%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.0		44 - 120		97%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.6		44 - 119		98%	SPK: 100
118-79-6	2,4,6-Tribromophenol	150		43 - 140		100%	SPK: 150
1718-51-0	Terphenyl-d14	96.2		50 - 134		96%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	154000	6.881				
1146-65-2	Naphthalene-d8	605000	8.163				
15067-26-2	Acenaphthene-d10	333000	9.916				
1517-22-2	Phenanthrene-d10	550000	11.404				
1719-03-5	Chrysene-d12	364000	14.045				
1520-96-3	Perylene-d12	376000	15.515				

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

Report of Analysis

Client:	Weston Solutions			Date Collected:	
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169			Date Received:	
Client Sample ID:	PB167168BS			SDG No.:	Q1569
Lab Sample ID:	PB167168BS			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141988.D	1	03/17/25 10:15	03/18/25 10:59	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141988.D
Acq On : 18 Mar 2025 10:59
Operator : RC/JU
Sample : PB167168BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 18 11:46:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	153624	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	605121	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	333256	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	550204	20.000	ng		0.00
76) Chrysene-d12	14.045	240	364178	20.000	ng		0.00
86) Perylene-d12	15.515	264	375705	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	1289349	140.074	ng		0.02
7) Phenol-d6	6.510	99	1576383	134.507	ng		0.00
23) Nitrobenzene-d5	7.445	82	1043365	97.032	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	634270	150.024	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	2139796	97.649	ng		0.00
79) Terphenyl-d14	12.986	244	2369251	96.185	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.751	88	160315	41.567	ng		97
3) Pyridine	3.510	79	378424	40.000	ng		98
4) n-Nitrosodimethylamine	3.457	42	191144	42.385	ng		98
6) Aniline	6.545	93	467295	40.418	ng		99
8) 2-Chlorophenol	6.663	128	473450	46.377	ng		99
9) Benzaldehyde	6.428	77	131199	20.017	ng		99
10) Phenol	6.522	94	547930	44.441	ng		97
11) bis(2-Chloroethyl)ether	6.616	93	410827	44.375	ng		99
12) 1,3-Dichlorobenzene	6.822	146	496621	45.059	ng		98
13) 1,4-Dichlorobenzene	6.898	146	507150	45.478	ng		99
14) 1,2-Dichlorobenzene	7.051	146	484885	46.164	ng		98
15) Benzyl Alcohol	7.022	79	412918	43.581	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	462263	41.359	ng		98
17) 2-Methylphenol	7.128	107	371351	45.750	ng		100
18) Hexachloroethane	7.392	117	186696	44.646	ng		96
19) n-Nitroso-di-n-propyla...	7.292	70	315123	41.846	ng		100
20) 3+4-Methylphenols	7.281	107	464568	44.683	ng	#	90
22) Acetophenone	7.286	105	703789	48.567	ng		96
24) Nitrobenzene	7.463	77	476326	44.560	ng		99
25) Isophorone	7.698	82	861775	45.339	ng		99
26) 2-Nitrophenol	7.775	139	250549	47.756	ng		99
27) 2,4-Dimethylphenol	7.810	122	398959	55.226	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	517502	43.409	ng		99
29) 2,4-Dichlorophenol	8.016	162	403105	44.955	ng		100
30) 1,2,4-Trichlorobenzene	8.104	180	442720	44.802	ng		98
31) Naphthalene	8.186	128	1349583	43.417	ng		100
32) Benzoic acid	7.928	122	318732	50.192	ng		98
33) 4-Chloroaniline	8.228	127	225971	20.593	ng		98
34) Hexachlorobutadiene	8.298	225	297040	46.093	ng		99
35) Caprolactam	8.598	113	131150m	47.974	ng		
36) 4-Chloro-3-methylphenol	8.710	107	431630	43.152	ng		99
37) 2-Methylnaphthalene	8.875	142	876224	42.173	ng		100
38) 1-Methylnaphthalene	8.975	142	843623	42.077	ng		100
40) 1,2,4,5-Tetrachloroben...	9.039	216	524826	51.726	ng		98
41) Hexachlorocyclopentadiene	9.028	237	668256	168.290	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	301417	45.456	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141988.D
Acq On : 18 Mar 2025 10:59
Operator : RC/JU
Sample : PB167168BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 18 11:46:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	314799	46.874	ng		99
46) 1,1'-Biphenyl	9.339	154	1251387	49.420	ng		100
47) 2-Chloronaphthalene	9.363	162	859555	45.544	ng		99
48) 2-Nitroaniline	9.457	65	243726	44.601	ng		97
49) Acenaphthylene	9.780	152	1335434	47.682	ng		100
50) Dimethylphthalate	9.639	163	1015664	43.521	ng		100
51) 2,6-Dinitrotoluene	9.698	165	221617	45.610	ng		95
52) Acenaphthene	9.951	154	991021	50.351	ng		99
53) 3-Nitroaniline	9.869	138	137483	27.894	ng		97
54) 2,4-Dinitrophenol	9.975	184	261502	93.511	ng	#	47
55) Dibenzofuran	10.122	168	1217099	43.277	ng		99
56) 4-Nitrophenol	10.027	139	367609	98.900	ng		96
57) 2,4-Dinitrotoluene	10.104	165	301837	47.561	ng		98
58) Fluorene	10.469	166	954715	44.021	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	278073	45.502	ng		98
60) Diethylphthalate	10.339	149	990323	42.558	ng		99
61) 4-Chlorophenyl-phenyle...	10.457	204	494016	43.691	ng		98
62) 4-Nitroaniline	10.480	138	209808	43.724	ng		98
63) Azobenzene	10.616	77	894901	41.365	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	162385	49.508	ng		100
66) n-Nitrosodiphenylamine	10.575	169	827044	46.450	ng		100
67) 4-Bromophenyl-phenylether	10.945	248	317766	45.987	ng		100
68) Hexachlorobenzene	11.016	284	366094	48.306	ng		94
69) Atrazine	11.104	200	322158	59.022	ng		99
70) Pentachlorophenol	11.210	266	435894	93.351	ng		99
71) Phenanthrene	11.427	178	1374452	46.249	ng		100
72) Anthracene	11.480	178	1412854	47.387	ng		100
73) Carbazole	11.633	167	1155342	44.932	ng		100
74) Di-n-butylphthalate	11.963	149	1479834	43.374	ng		99
75) Fluoranthene	12.616	202	1339128	42.479	ng		99
77) Benzidine	12.733	184	367890	72.405	ng		99
78) Pyrene	12.845	202	1330654	42.241	ng		99
80) Butylbenzylphthalate	13.463	149	514197	41.703	ng		97
81) Benzo(a)anthracene	14.033	228	1117238	46.751	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	265251	38.409	ng		99
83) Chrysene	14.068	228	998209	46.080	ng		100
84) Bis(2-ethylhexyl)phtha...	14.015	149	728315	42.841	ng		100
85) Di-n-octyl phthalate	14.633	149	1189008	50.266	ng		98
87) Indeno(1,2,3-cd)pyrene	17.015	276	1215297	50.004	ng		98
88) Benzo(b)fluoranthene	15.086	252	1022729	39.719	ng		99
89) Benzo(k)fluoranthene	15.115	252	1001088	45.431	ng		99
90) Benzo(a)pyrene	15.457	252	970694	48.179	ng		99
91) Dibenzo(a,h)anthracene	17.033	278	988318	49.287	ng		99
92) Benzo(g,h,i)perylene	17.462	276	923868	46.622	ng		98

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

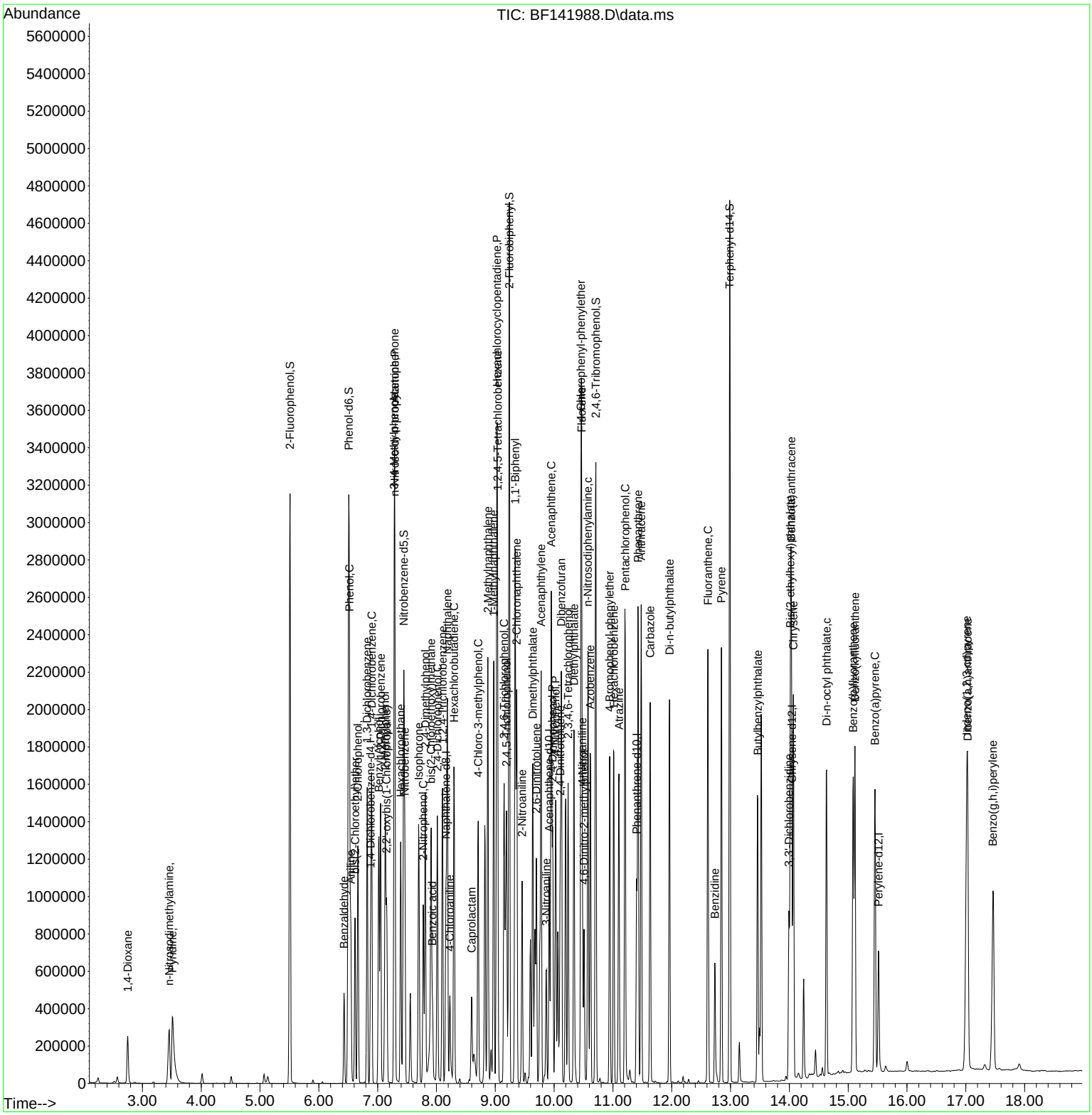
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141988.D
Acq On : 18 Mar 2025 10:59
Operator : RC/JU
Sample : PB167168BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

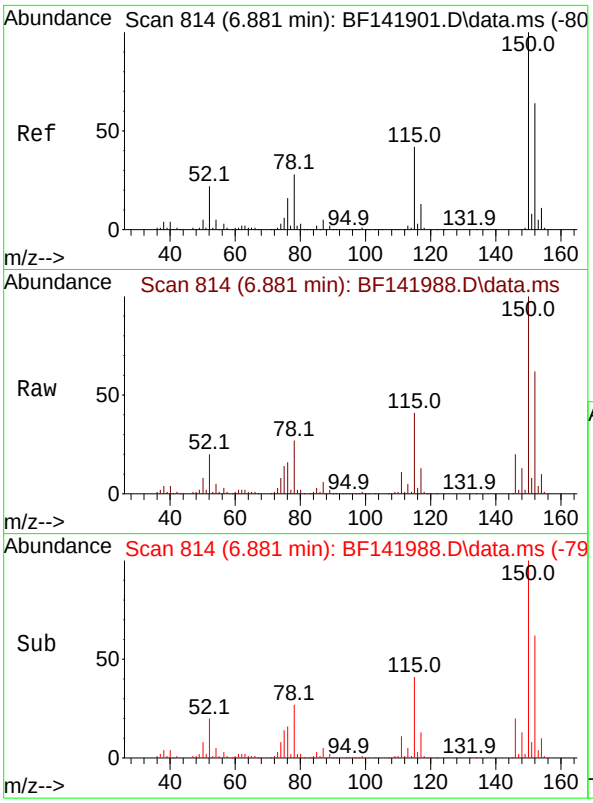
Quant Time: Mar 18 11:46:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

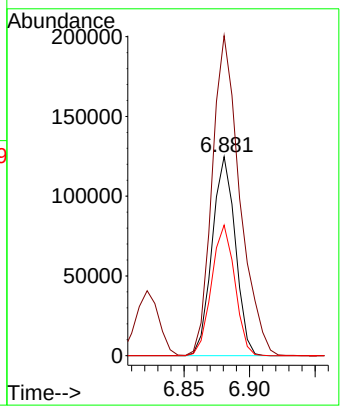




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:152 Resp: 15362

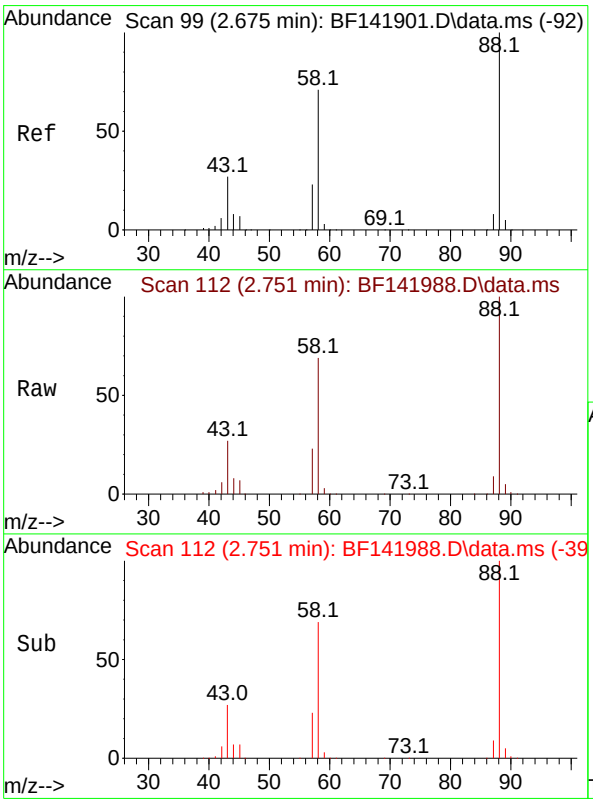
Ion	Ratio	Lower	Upper
152	100		
150	160.7	127.4	191.2
115	65.6	51.9	77.9



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

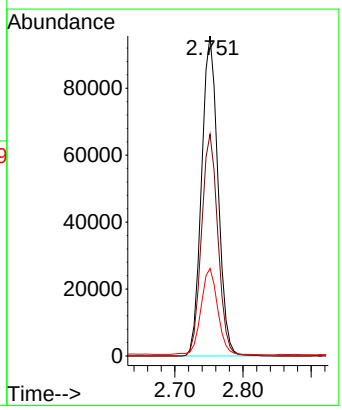
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

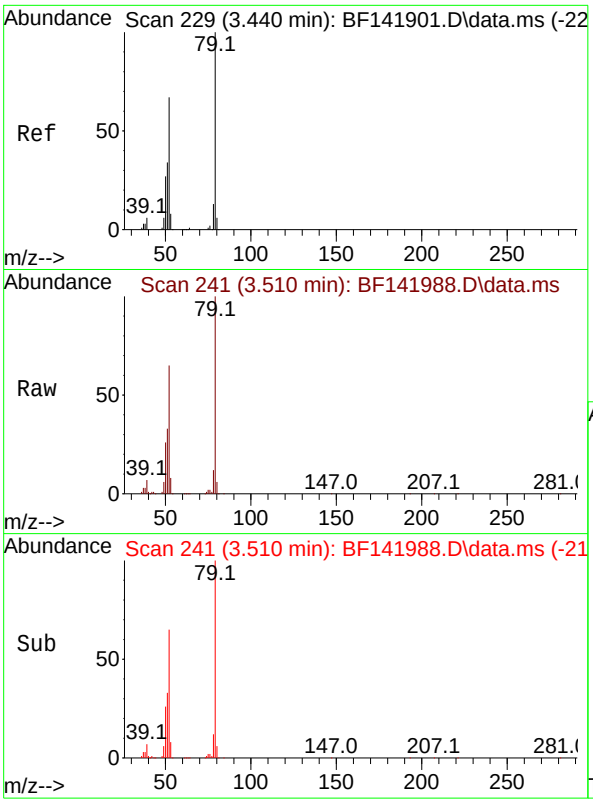


#2
1,4-Dioxane
Concen: 41.567 ng
RT: 2.751 min Scan# 112
Delta R.T. 0.076 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 88 Resp: 160315

Ion	Ratio	Lower	Upper
88	100		
58	69.3	57.4	86.2
43	27.7	21.5	32.3

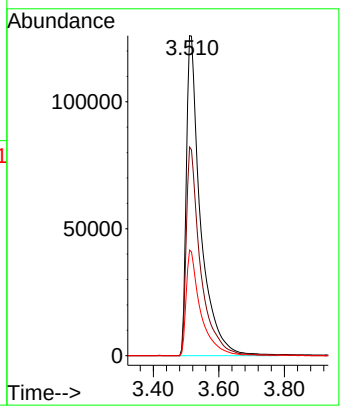




#3
Pyridine
Concen: 40.000 ng
RT: 3.510 min Scan# 2
Delta R.T. 0.071 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 79 Resp: 37842

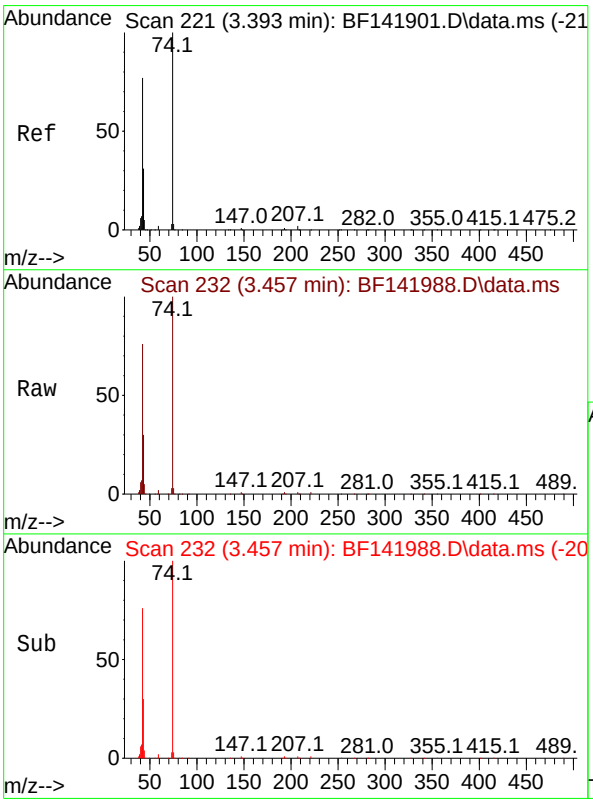
Ion	Ratio	Lower	Upper
79	100		
52	65.2	53.3	79.9
51	33.0	27.6	41.4



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

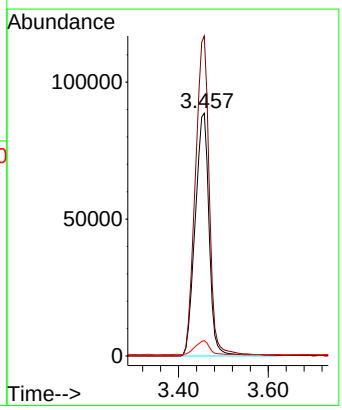
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

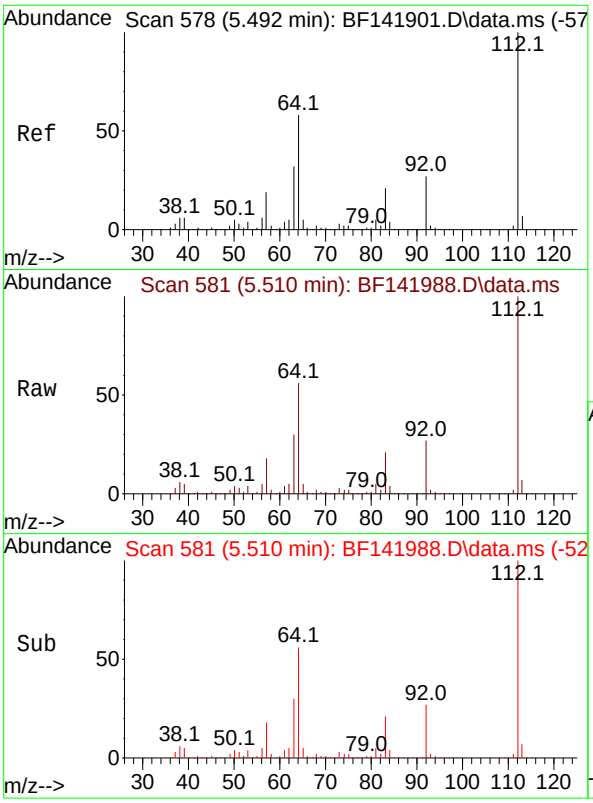


#4
n-Nitrosodimethylamine
Concen: 42.385 ng
RT: 3.457 min Scan# 232
Delta R.T. 0.065 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 42 Resp: 191144

Ion	Ratio	Lower	Upper
42	100		
74	131.8	103.4	155.0
44	6.3	5.0	7.4

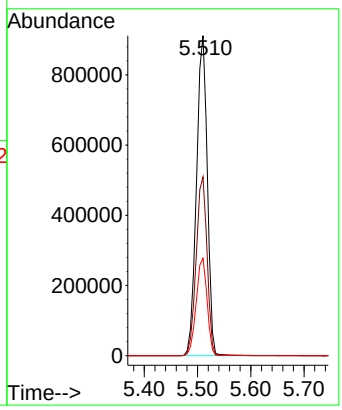




#5
2-Fluorophenol
Concen: 140.074 ng
RT: 5.510 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:112 Resp: 128934

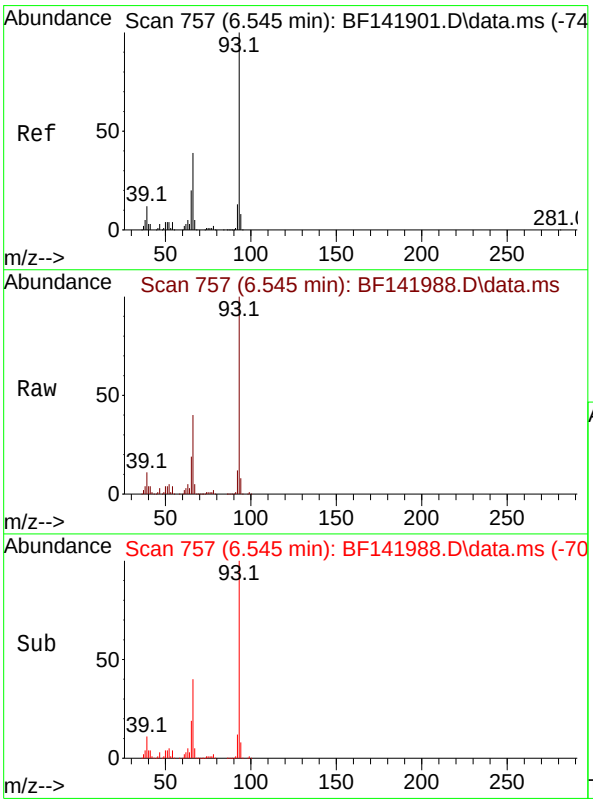
Ion	Ratio	Lower	Upper
112	100		
64	55.8	46.5	69.7
63	30.5	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

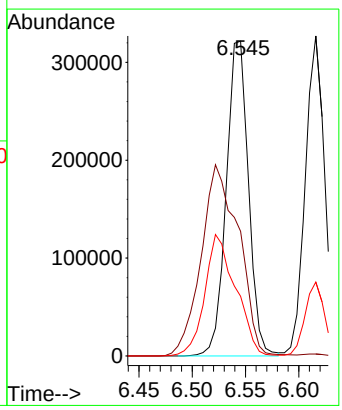
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

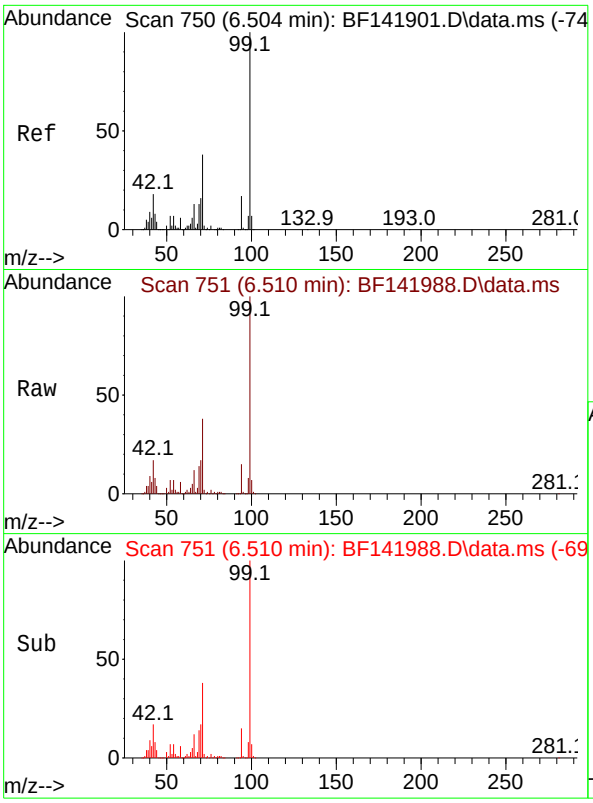


#6
Aniline
Concen: 40.418 ng
RT: 6.545 min Scan# 757
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 93 Resp: 467295

Ion	Ratio	Lower	Upper
93	100		
66	39.6	31.9	47.9
65	19.0	15.8	23.6

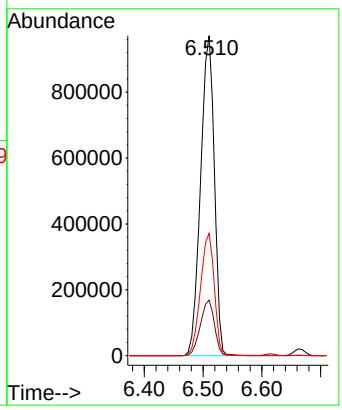




#7
Phenol-d6
Concen: 134.507 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 99 Resp: 157638

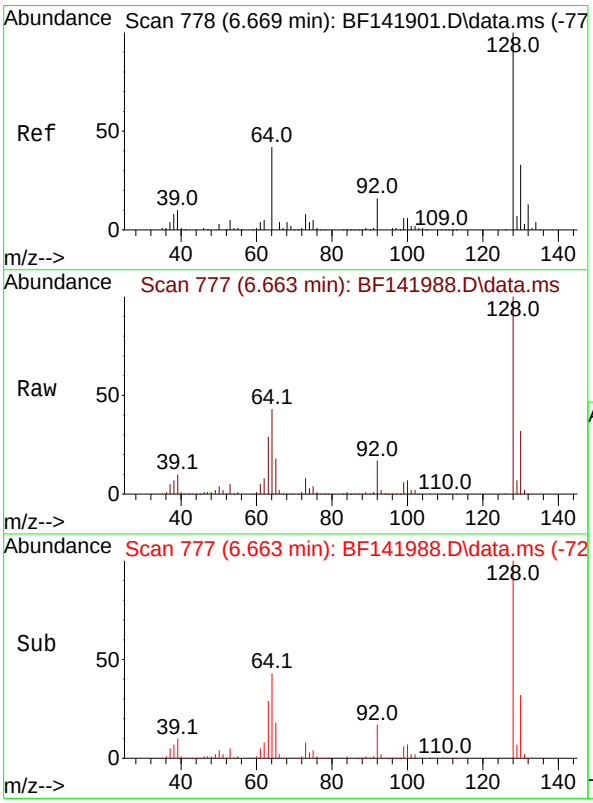
Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.6	21.8
71	38.3	30.8	46.2



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations APPROVED

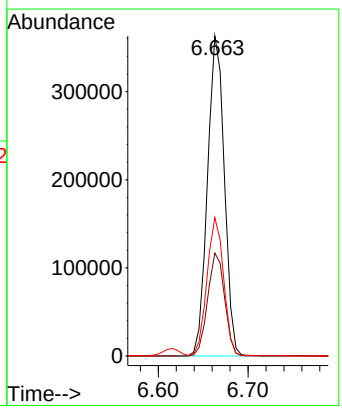
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

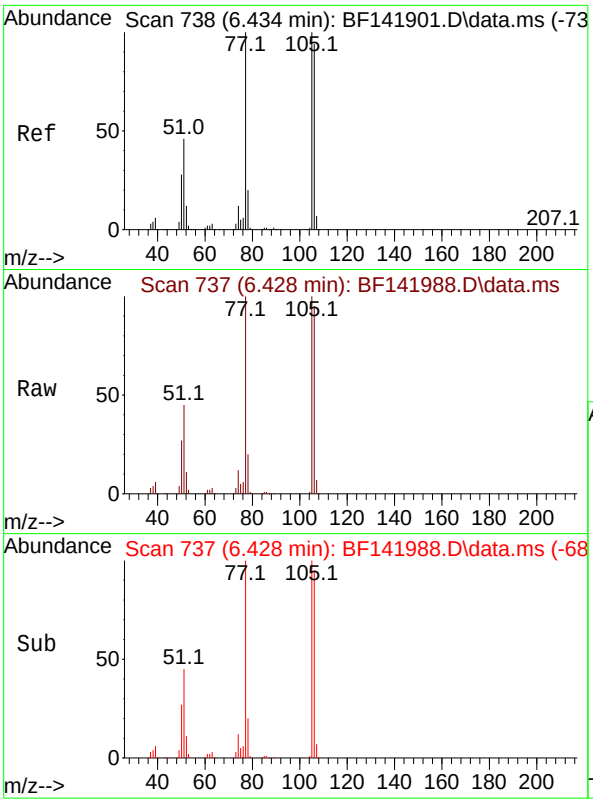


#8
2-Chlorophenol
Concen: 46.377 ng
RT: 6.663 min Scan# 777
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:128 Resp: 473450

Ion	Ratio	Lower	Upper
128	100		
130	32.1	12.8	52.8
64	43.3	24.4	64.4

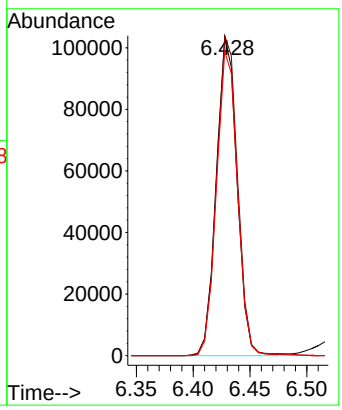




#9
Benzaldehyde
Concen: 20.017 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 77 Resp: 13119

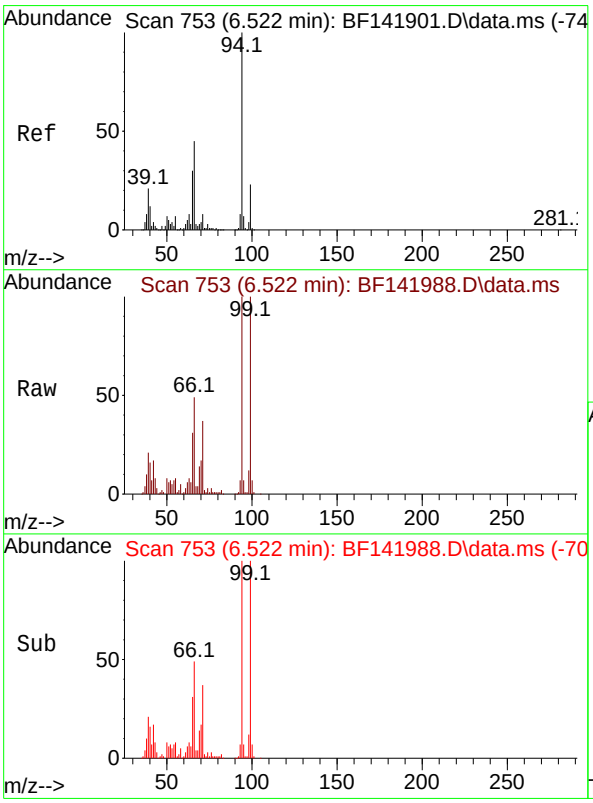
Ion	Ratio	Lower	Upper
77	100		
105	100.5	80.0	120.0
106	95.6	74.5	114.5



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

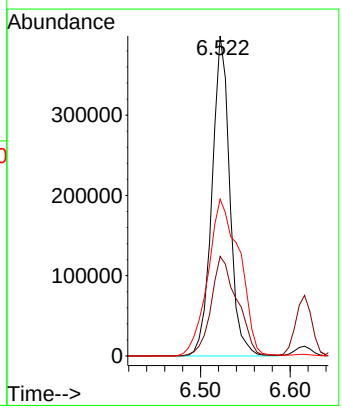
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

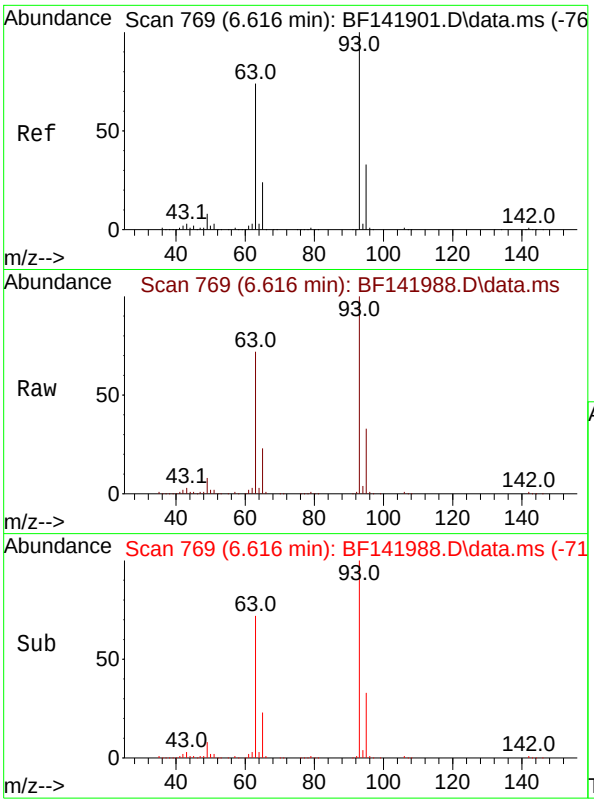


#10
Phenol
Concen: 44.441 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 94 Resp: 547930

Ion	Ratio	Lower	Upper
94	100		
65	31.1	10.5	50.5
66	49.0	25.8	65.8

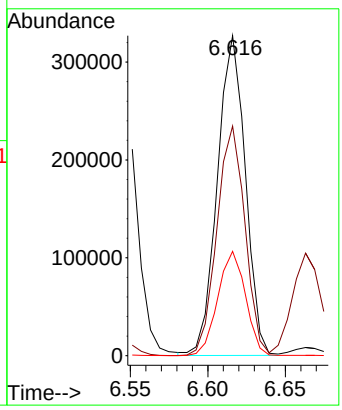




#11
bis(2-Chloroethyl)ether
Concen: 44.375 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 93 Resp: 41082

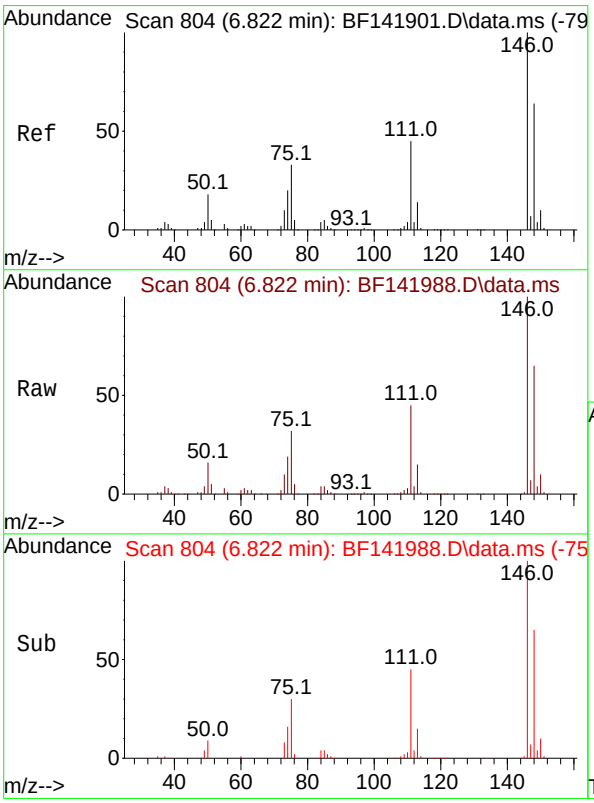
Ion	Ratio	Lower	Upper
93	100		
63	71.8	53.0	93.0
95	32.6	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

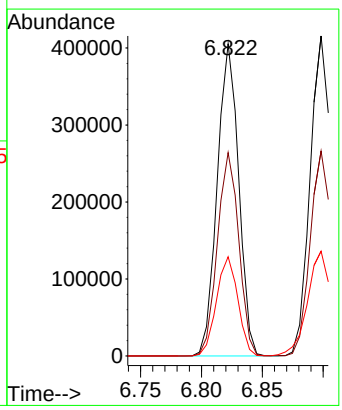
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

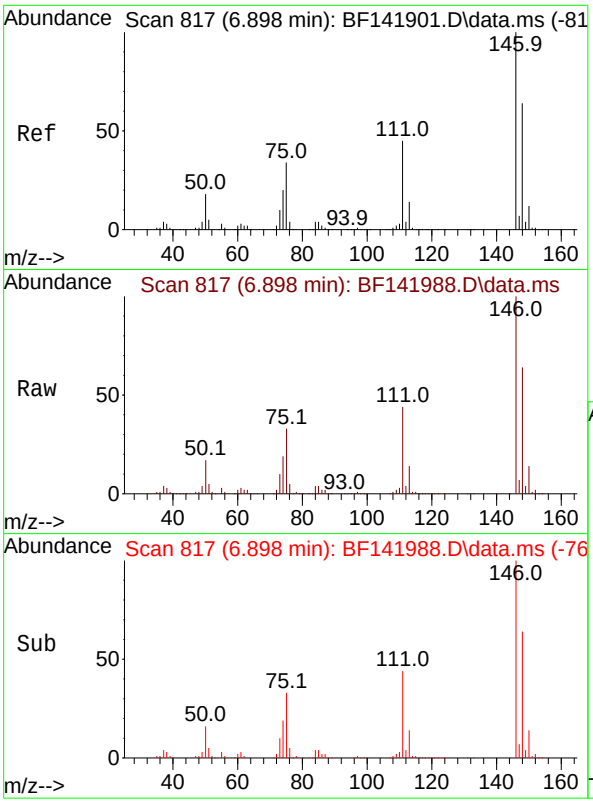


#12
1,3-Dichlorobenzene
Concen: 45.059 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:146 Resp: 496621

Ion	Ratio	Lower	Upper
146	100		
148	65.1	51.3	76.9
75	31.8	26.6	40.0

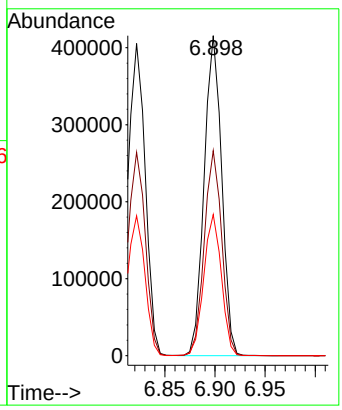




#13
1,4-Dichlorobenzene
Concen: 45.478 ng
RT: 6.898 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:146 Resp: 50715

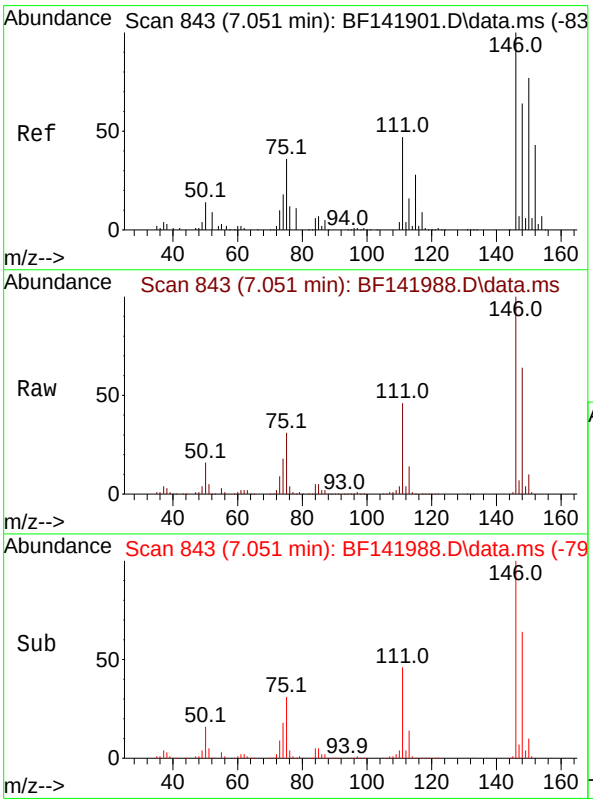
Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.0	76.6
111	44.1	35.7	53.5



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

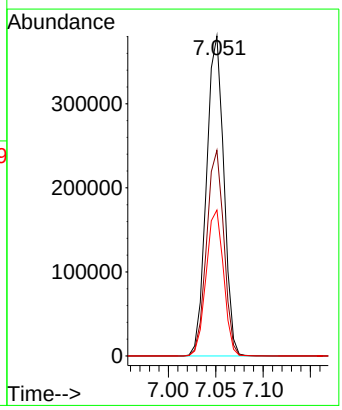
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

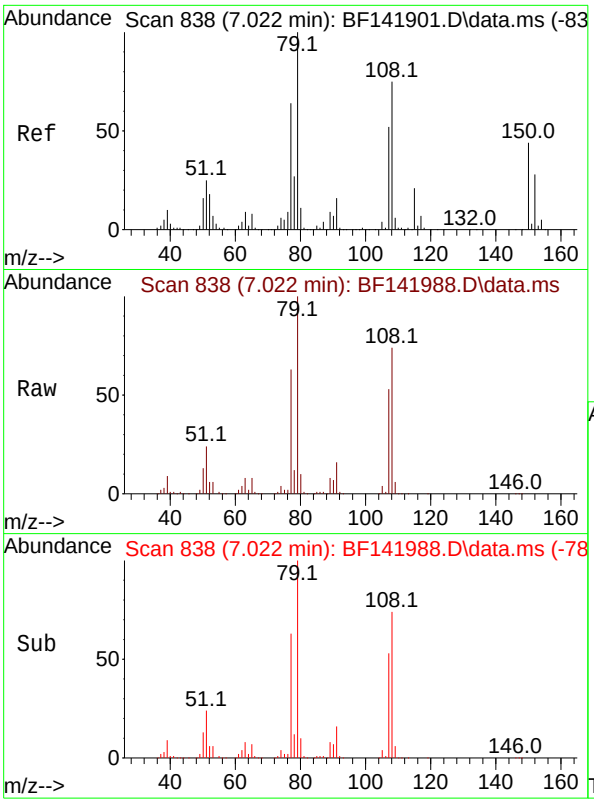


#14
1,2-Dichlorobenzene
Concen: 46.164 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:146 Resp: 484885

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.8	76.2
111	45.6	38.0	57.0





#15
Benzyl Alcohol
Concen: 43.581 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

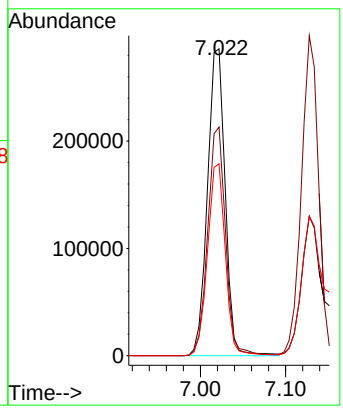
Tgt Ion: 79 Resp: 41291

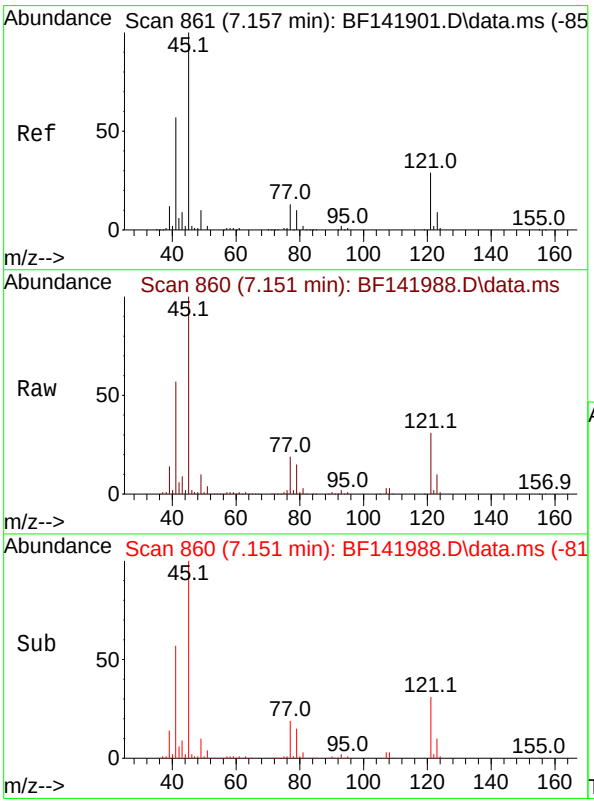
Ion	Ratio	Lower	Upper
79	100		
108	74.5	59.7	89.5
77	62.5	51.0	76.6

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

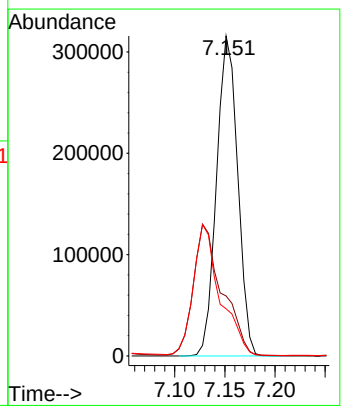


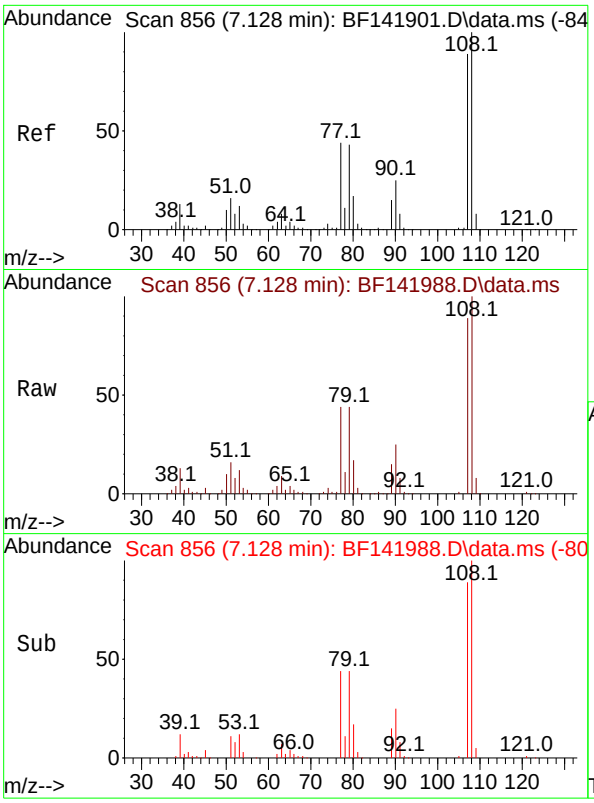


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.359 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 45 Resp: 462263

Ion	Ratio	Lower	Upper
45	100		
77	18.8	0.0	37.8
79	14.8	0.0	34.2

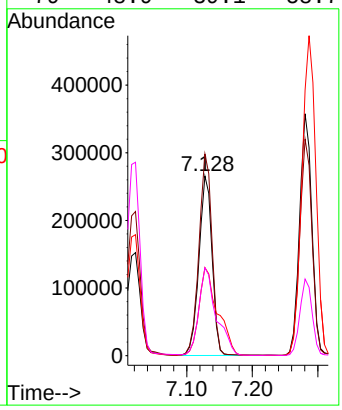




#17
2-Methylphenol
Concen: 45.750 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:107 Resp: 37135

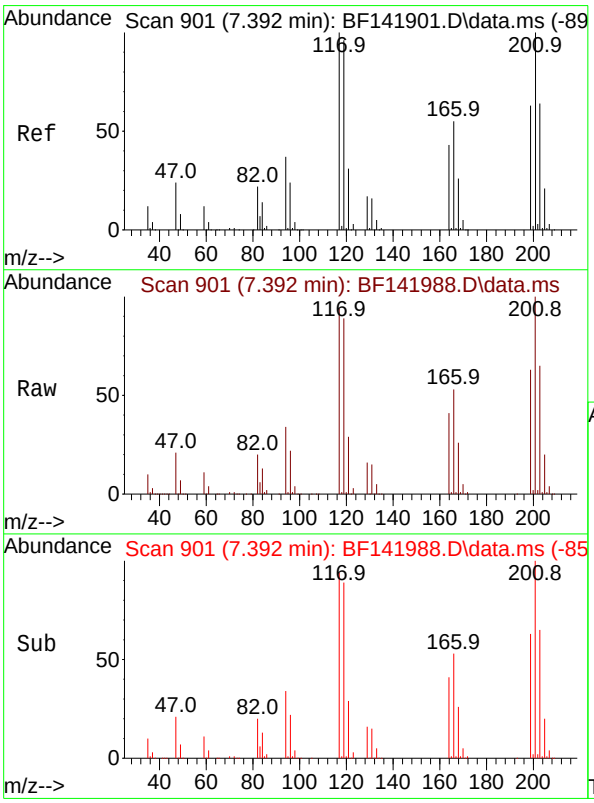
Ion	Ratio	Lower	Upper
107	100		
108	112.3	90.2	135.2
77	48.9	39.6	59.4
79	48.9	39.1	58.7



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

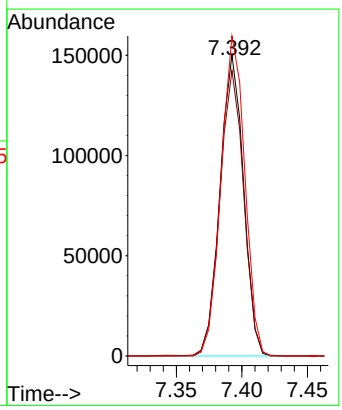
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

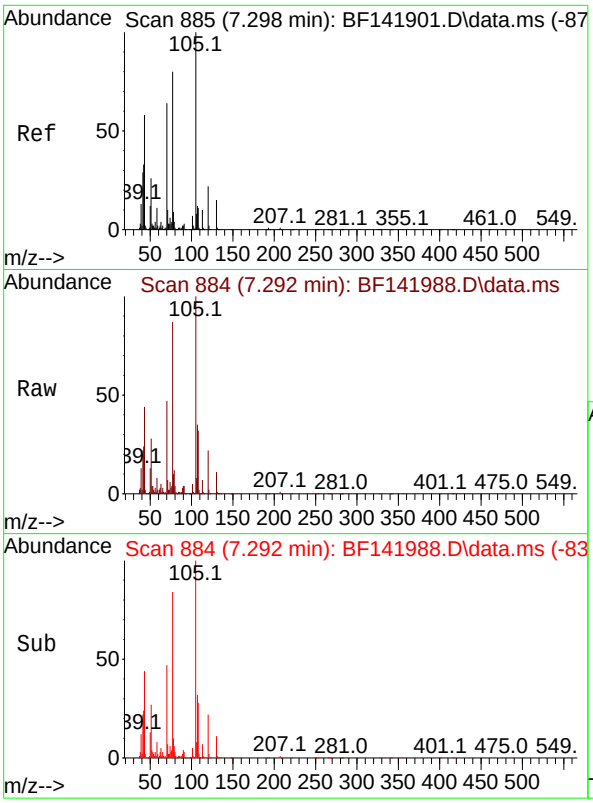


#18
Hexachloroethane
Concen: 44.646 ng
RT: 7.392 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:117 Resp: 186696

Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.9	115.3
201	106.3	79.9	119.9

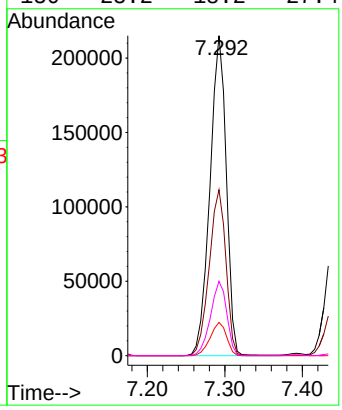




#19
n-Nitroso-di-n-propylamine
Concen: 41.846 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 70 Resp: 31512

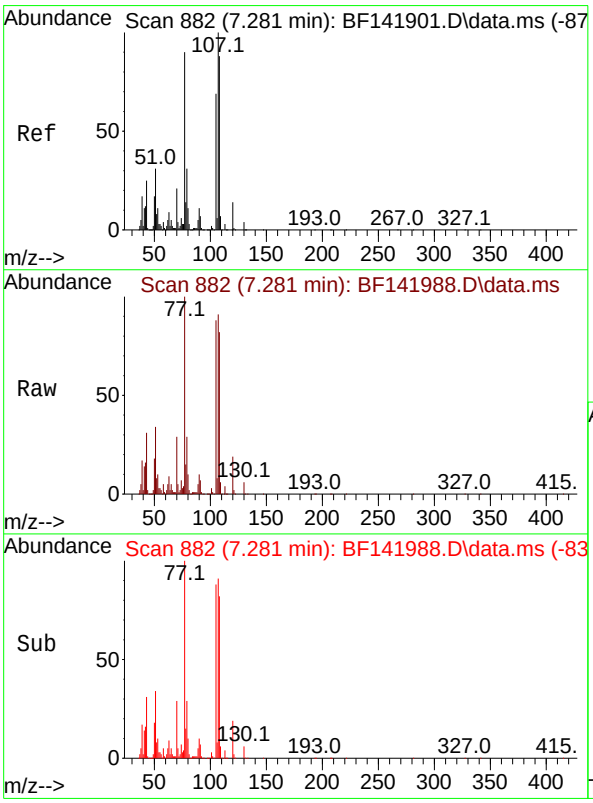
Ion	Ratio	Lower	Upper
70	100		
42	51.9	41.4	62.0
101	10.4	8.2	12.2
130	23.2	18.2	27.4



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

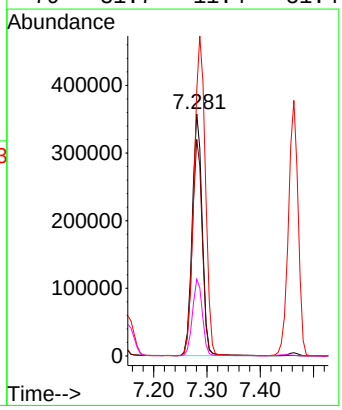
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

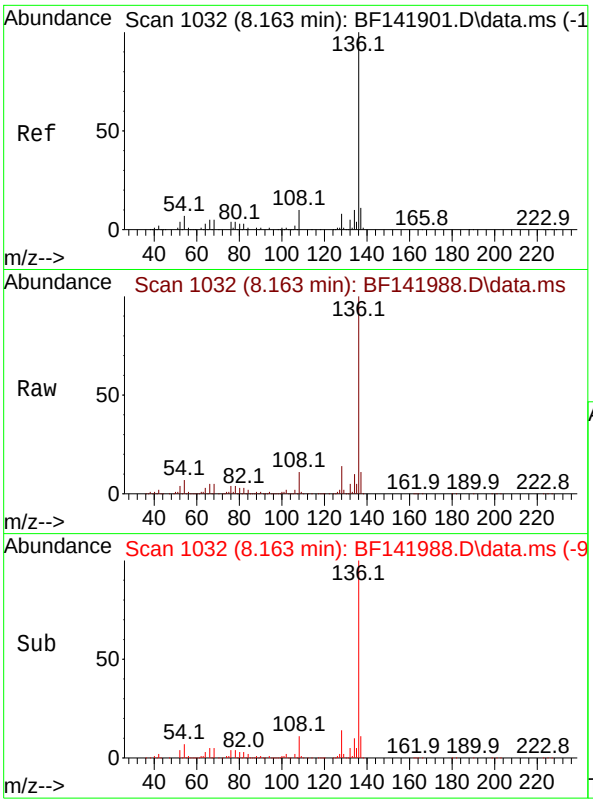


#20
3+4-Methylphenols
Concen: 44.683 ng
RT: 7.281 min Scan# 882
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:107 Resp: 464568

Ion	Ratio	Lower	Upper
107	100		
108	89.5	68.4	108.4
77	109.7	69.7	109.7#
79	31.7	11.4	51.4

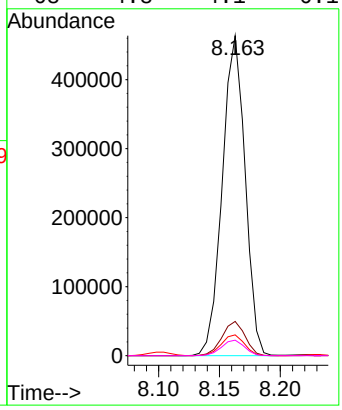




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:136 Resp: 60512

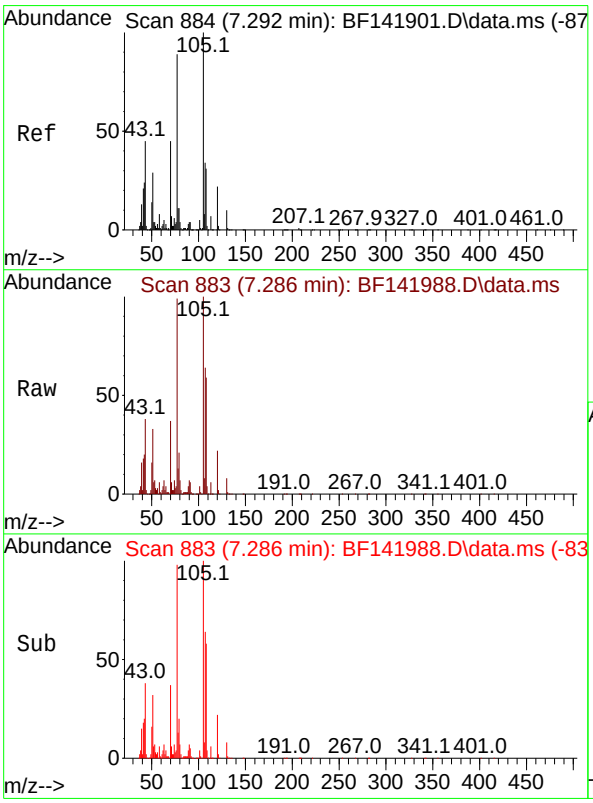
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	6.5	5.8	8.8
68	4.8	4.1	6.1



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

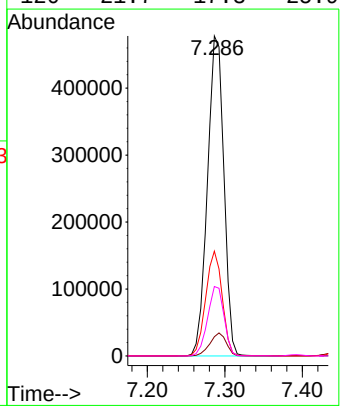
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

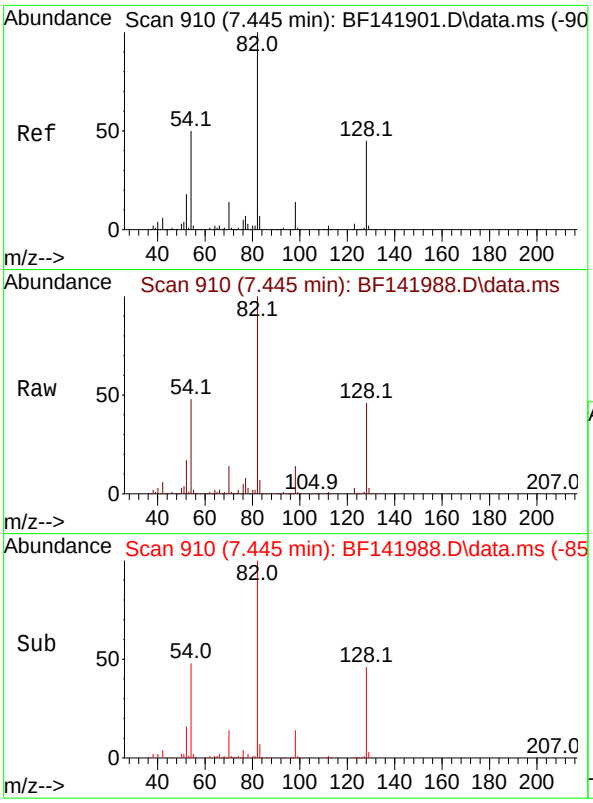


#22
Acetophenone
Concen: 48.567 ng
RT: 7.286 min Scan# 883
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:105 Resp: 703789

Ion	Ratio	Lower	Upper
105	100		
71	6.0	5.8	8.8
51	32.7	23.4	35.0
120	21.7	17.3	25.9





#23
Nitrobenzene-d5
Concen: 97.032 ng
RT: 7.445 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

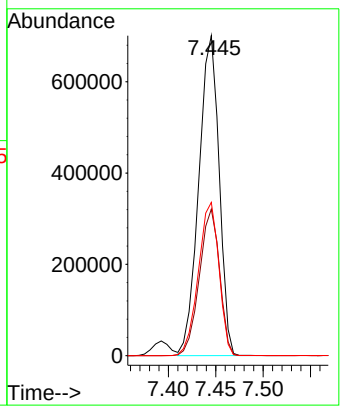
Tgt Ion: 82 Resp: 104336

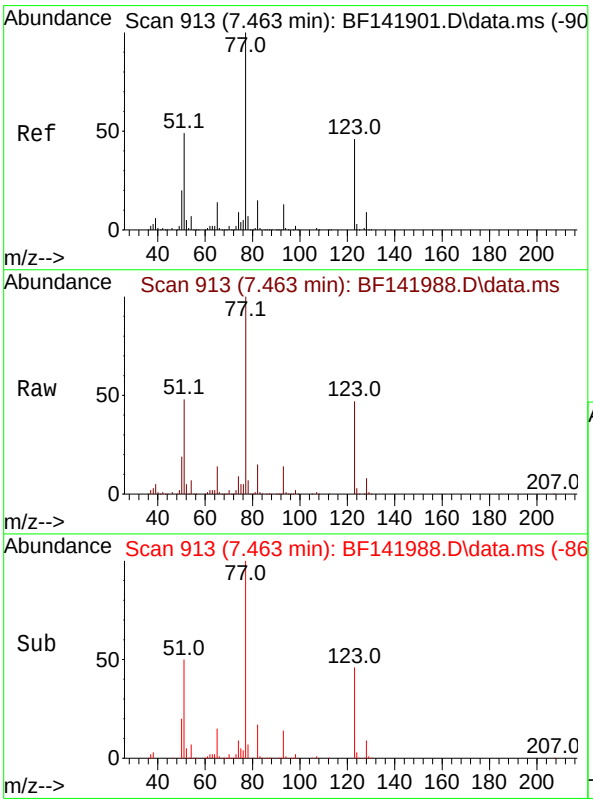
Ion	Ratio	Lower	Upper
82	100		
128	45.8	36.0	54.0
54	47.9	39.6	59.4

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

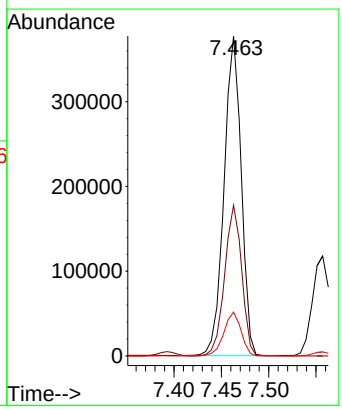


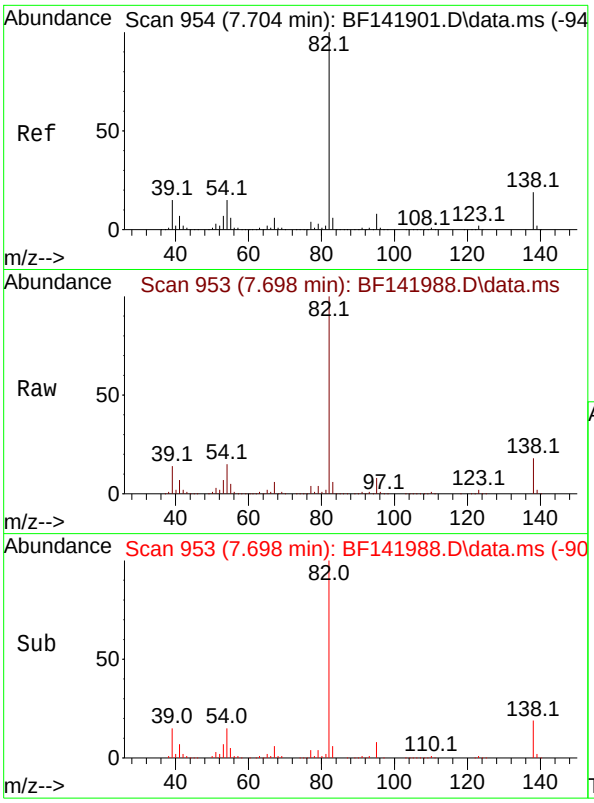


#24
Nitrobenzene
Concen: 44.560 ng
RT: 7.463 min Scan# 913
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 77 Resp: 476326

Ion	Ratio	Lower	Upper
77	100		
123	47.1	37.0	55.4
65	13.7	11.3	16.9

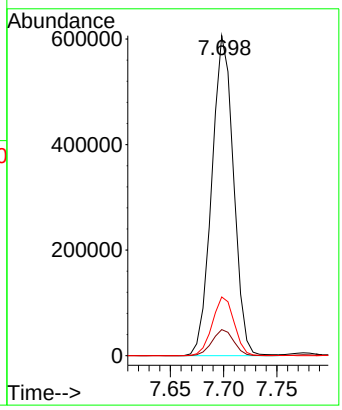




#25
Isophorone
Concen: 45.339 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 82 Resp: 86177

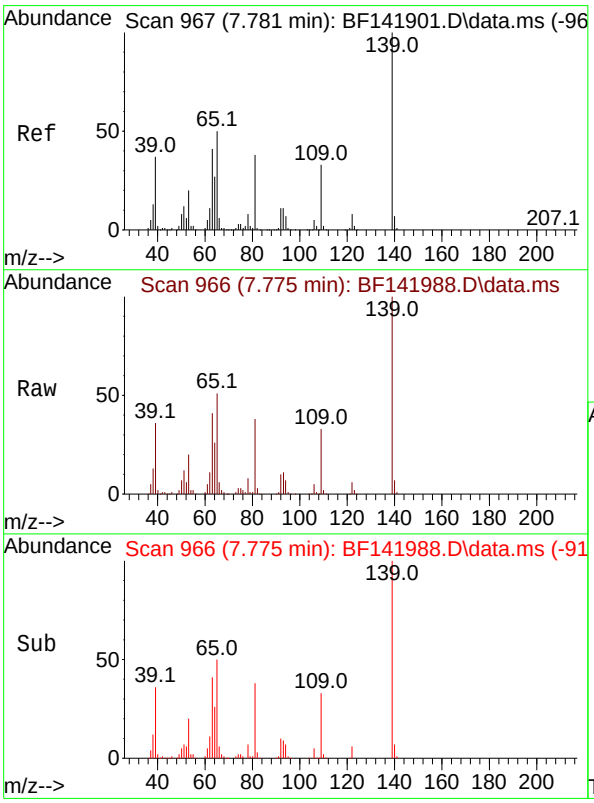
Ion	Ratio	Lower	Upper
82	100		
95	8.1	6.4	9.6
138	18.3	14.9	22.3



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations APPROVED

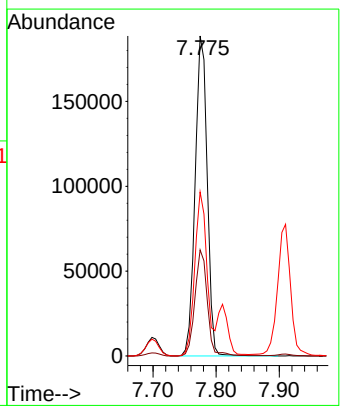
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

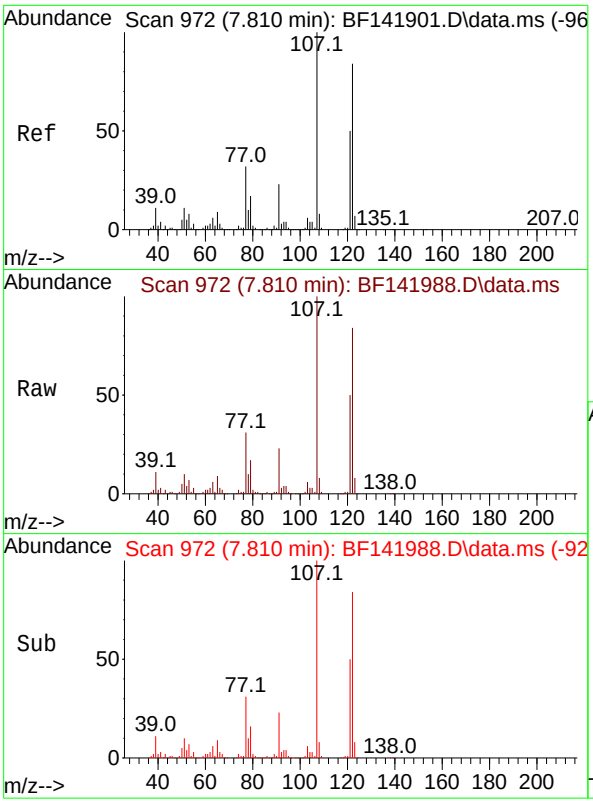


#26
2-Nitrophenol
Concen: 47.756 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:139 Resp: 250549

Ion	Ratio	Lower	Upper
139	100		
109	33.1	26.5	39.7
65	51.2	40.3	60.5

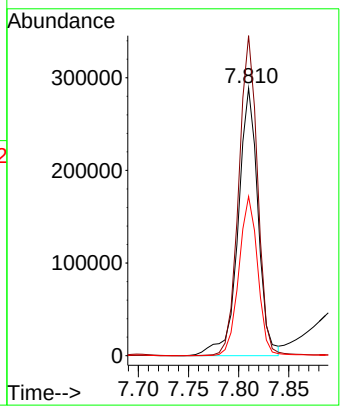




#27
2,4-Dimethylphenol
Concen: 55.226 ng
RT: 7.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:122 Resp: 39895

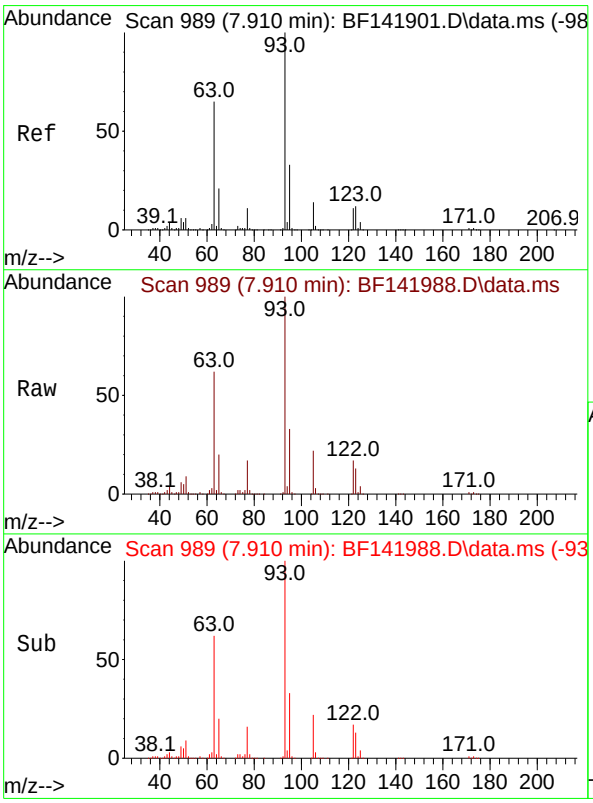
Ion	Ratio	Lower	Upper
122	100		
107	119.6	94.8	142.2
121	59.5	47.8	71.6



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

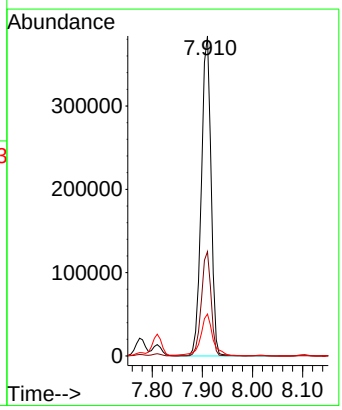
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

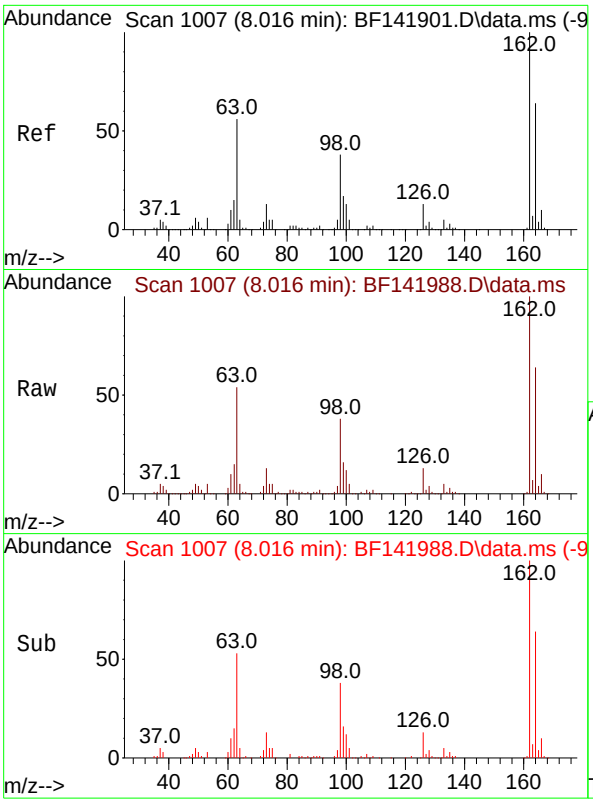


#28
bis(2-Chloroethoxy)methane
Concen: 43.409 ng
RT: 7.910 min Scan# 989
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 93 Resp: 517502

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.6	40.0
123	13.1	10.2	15.4

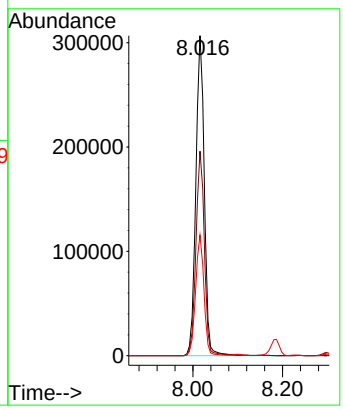




#29
2,4-Dichlorophenol
Concen: 44.955 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:162 Resp: 40310

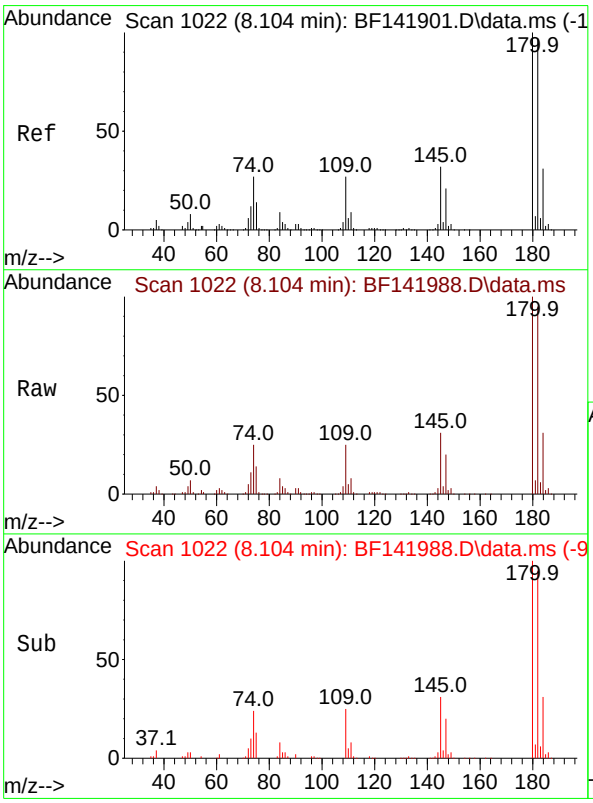
Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.8	83.8
98	37.7	18.1	58.1



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

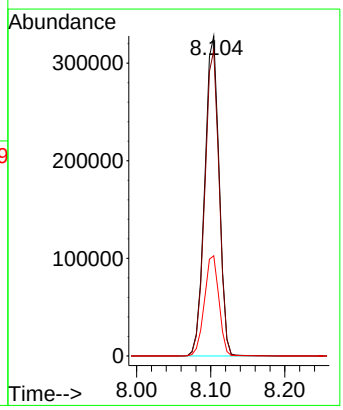
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

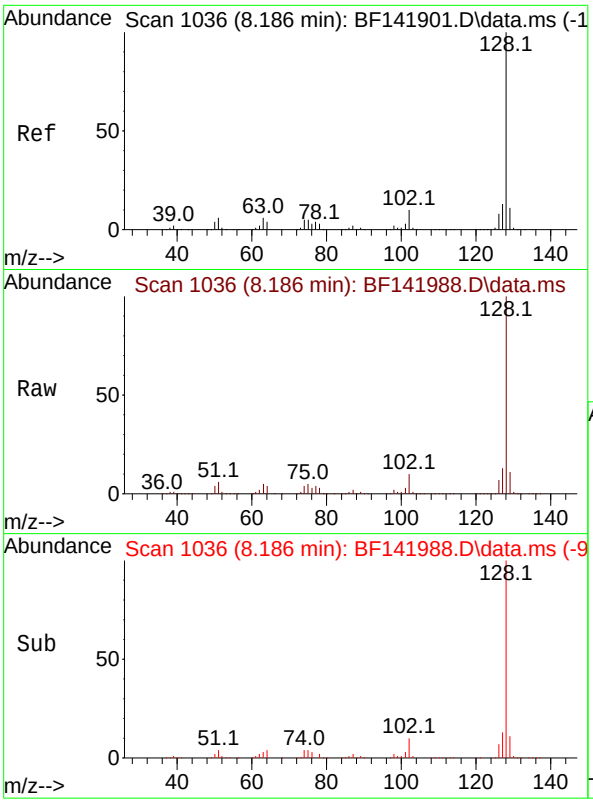


#30
1,2,4-Trichlorobenzene
Concen: 44.802 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:180 Resp: 442720

Ion	Ratio	Lower	Upper
180	100		
182	95.4	77.5	116.3
145	31.3	25.8	38.6





#31
Naphthalene
Concen: 43.417 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

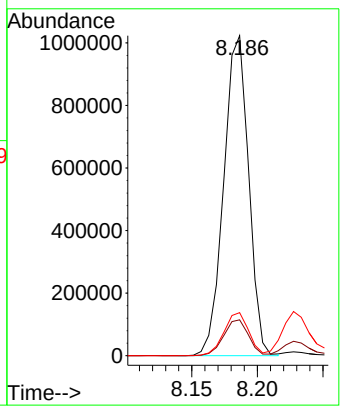
Tgt Ion:128 Resp: 134958

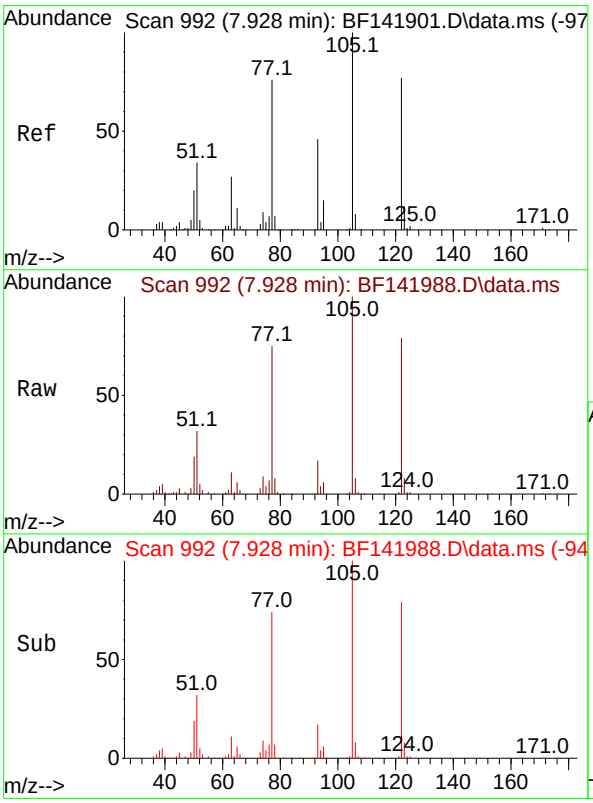
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	13.5	10.8	16.2

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

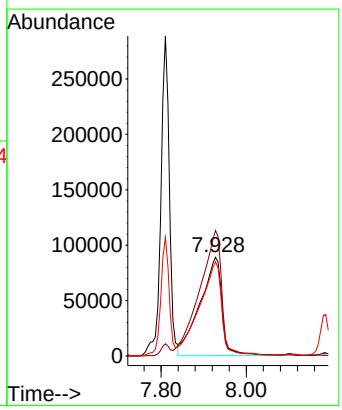


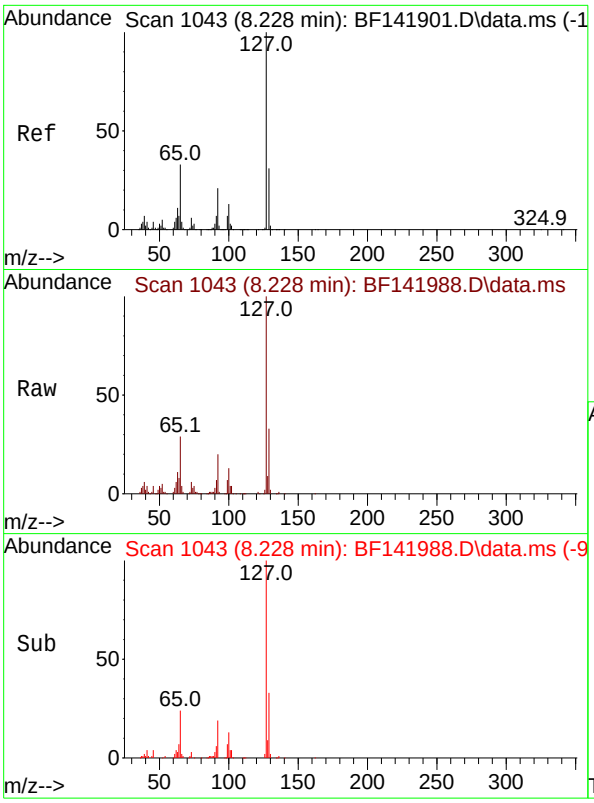


#32
Benzoic acid
Concen: 50.192 ng
RT: 7.928 min Scan# 992
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:122 Resp: 318732

Ion	Ratio	Lower	Upper
122	100		
105	126.9	107.9	147.9
77	95.4	79.0	119.0

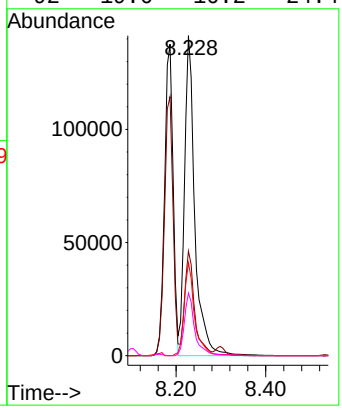




#33
4-Chloroaniline
Concen: 20.593 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:127 Resp: 22597

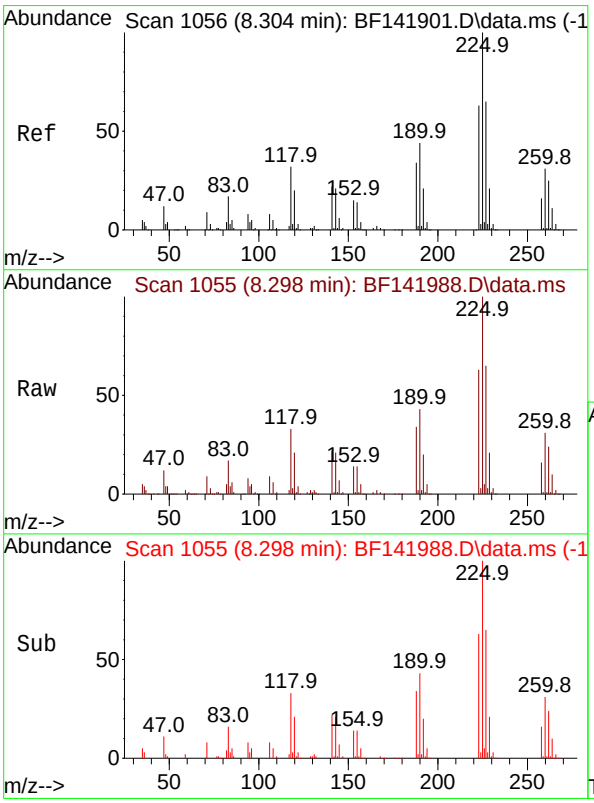
Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.2	39.4
65	29.0	25.4	38.2
92	19.6	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

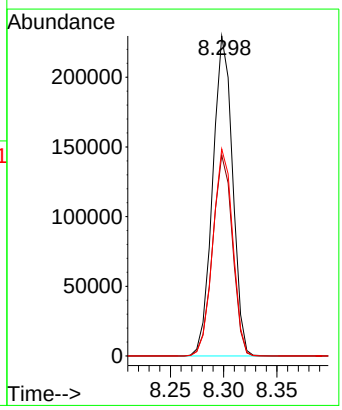
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

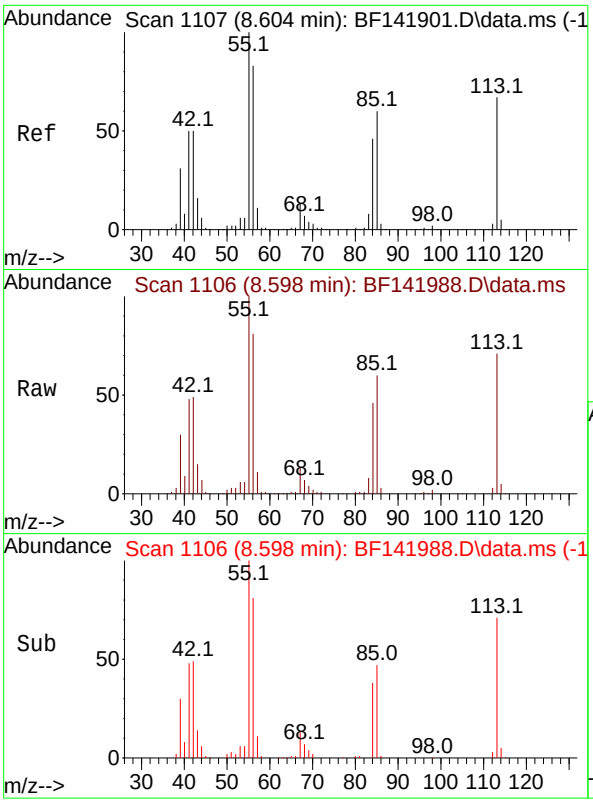


#34
Hexachlorobutadiene
Concen: 46.093 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:225 Resp: 297040

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.6	75.8
227	64.7	52.2	78.2

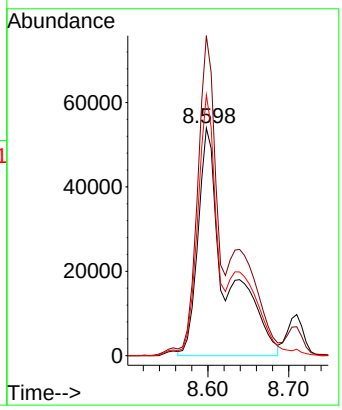




#35
Caprolactam
Concen: 47.974 ng m
RT: 8.598 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:113 Resp: 13115

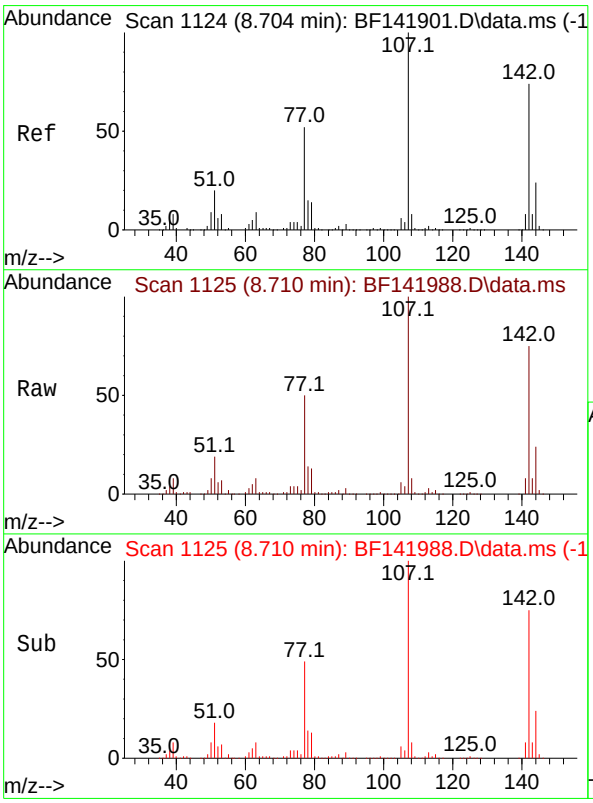
Ion	Ratio	Lower	Upper
113	100		
55	140.5	129.6	169.6
56	114.5	104.0	144.0



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

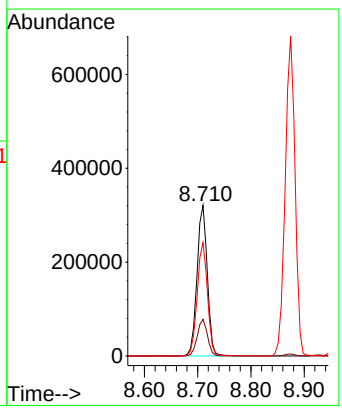
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

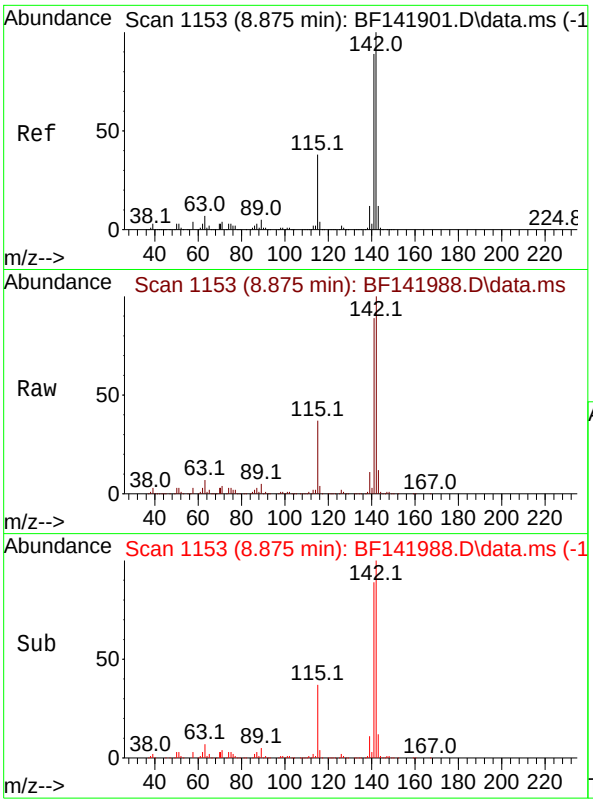


#36
4-Chloro-3-methylphenol
Concen: 43.152 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:107 Resp: 431630

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.0	28.6
142	75.2	59.2	88.8

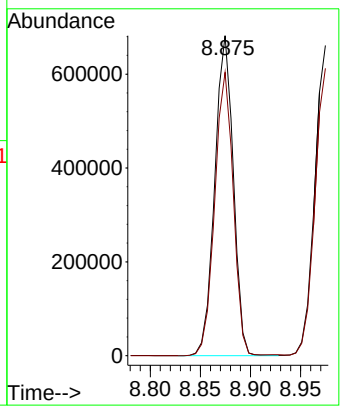




#37
2-Methylnaphthalene
Concen: 42.173 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:142 Resp: 87622

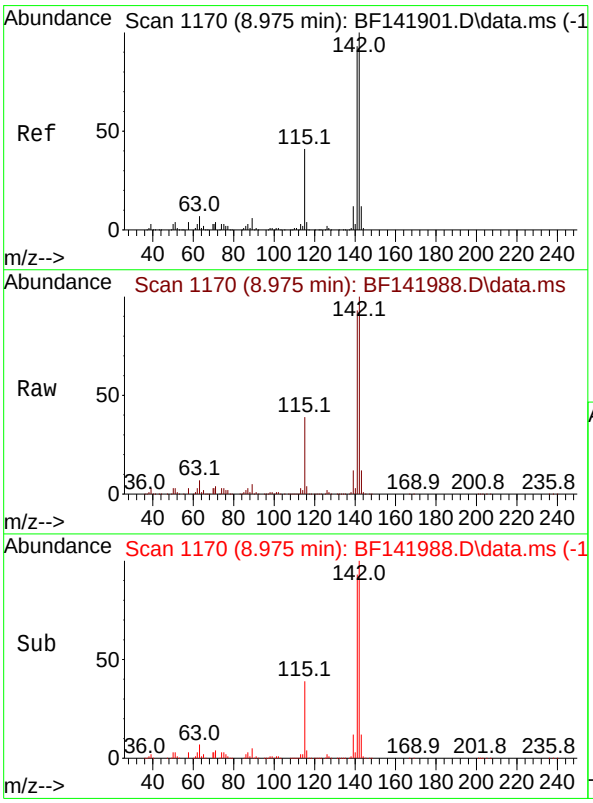
Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.2	106.8



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

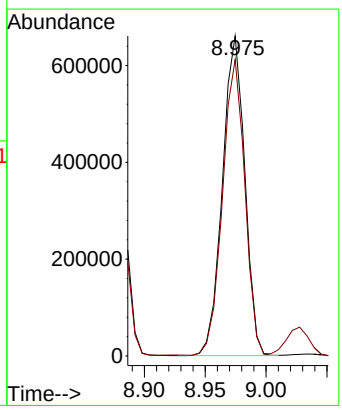
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

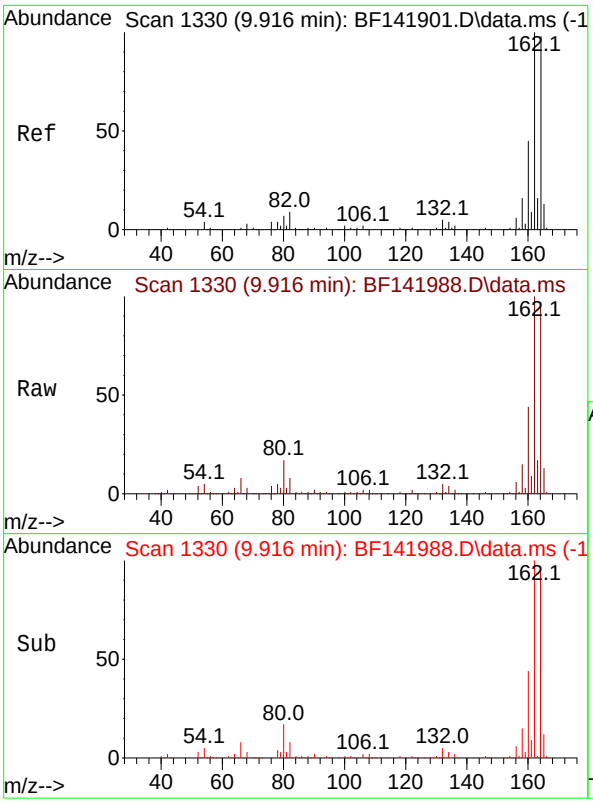


#38
1-Methylnaphthalene
Concen: 42.077 ng
RT: 8.975 min Scan# 1170
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:142 Resp: 843623

Ion	Ratio	Lower	Upper
142	100		
141	92.6	74.2	111.4

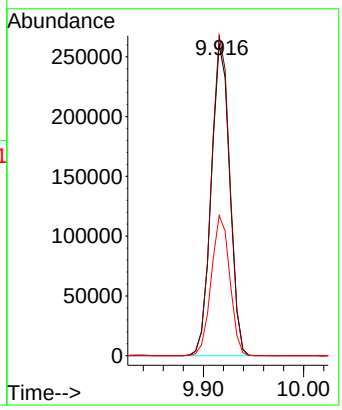




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:164 Resp: 33325

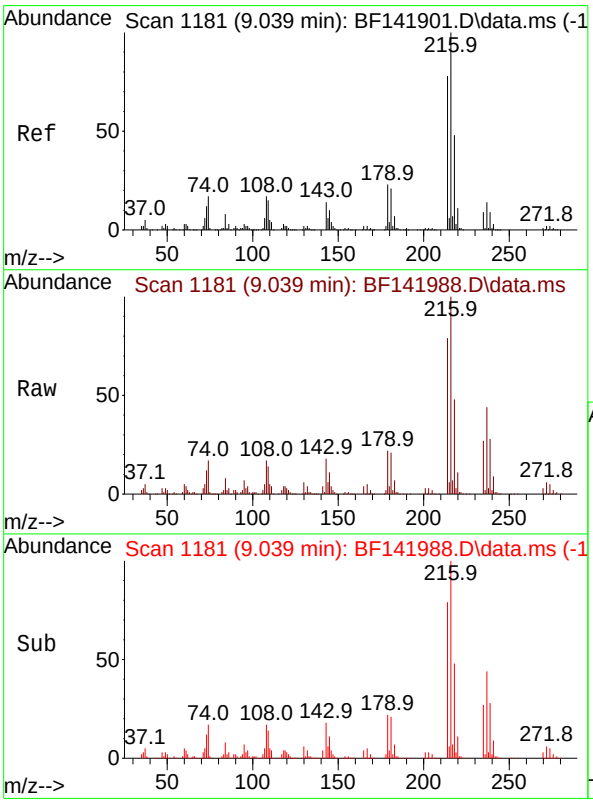
Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.8	122.6
160	45.0	36.7	55.1



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

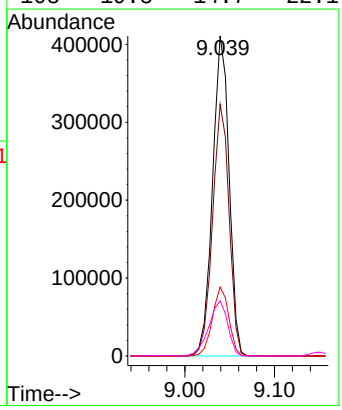
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

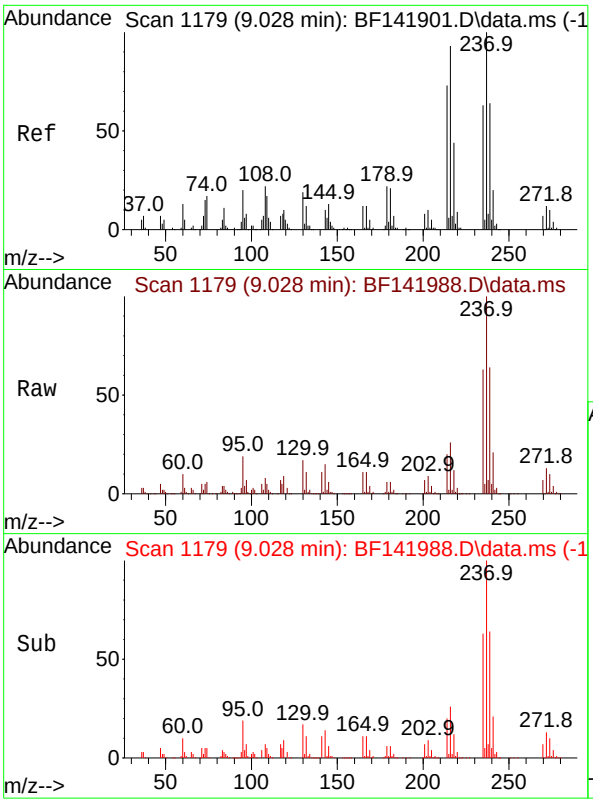


#40
1,2,4,5-Tetrachlorobenzene
Concen: 51.726 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:216 Resp: 524826

Ion	Ratio	Lower	Upper
216	100		
214	78.7	61.9	92.9
179	21.4	18.1	27.1
108	19.8	14.7	22.1

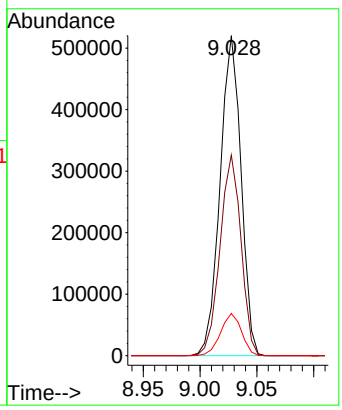




#41
Hexachlorocyclopentadiene
Concen: 168.290 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:237 Resp: 66825

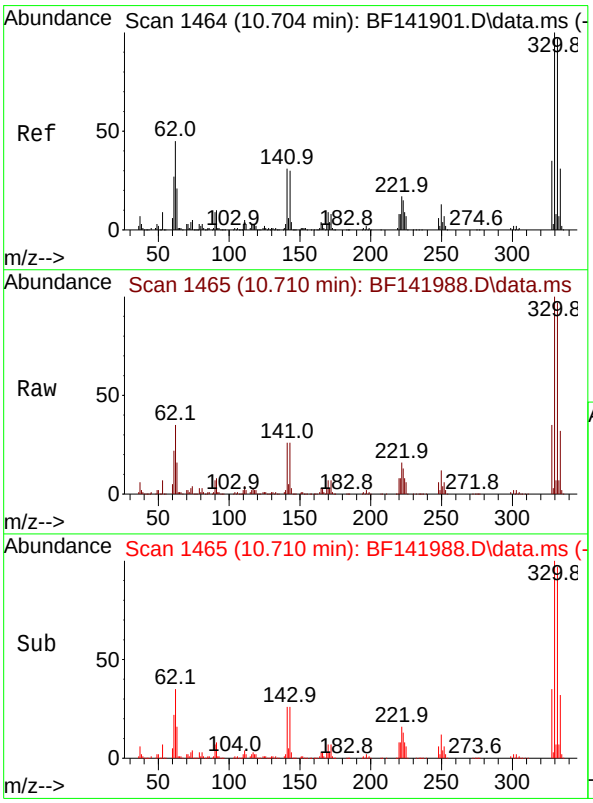
Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.1	83.1
272	13.2	0.0	32.0



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

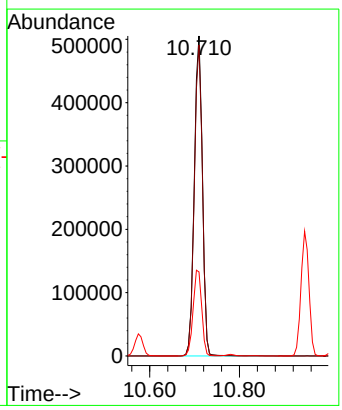
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

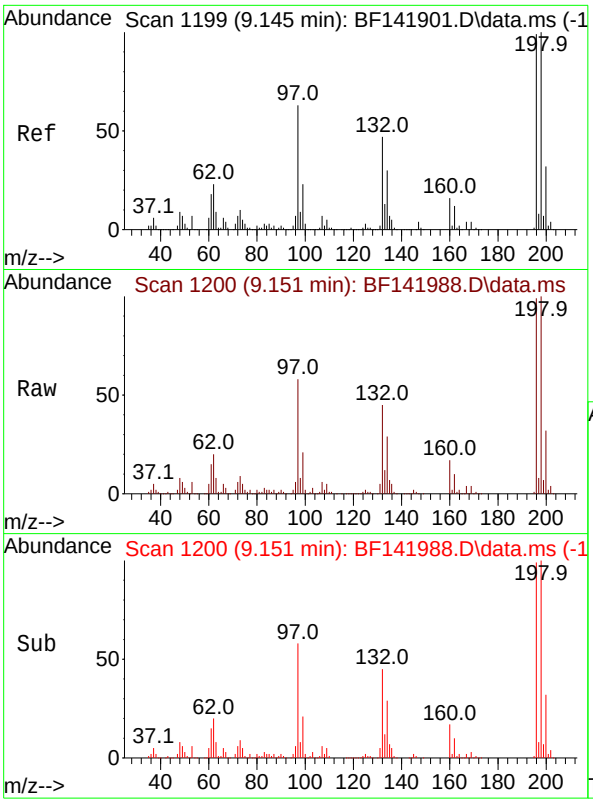


#42
2,4,6-Tribromophenol
Concen: 150.024 ng
RT: 10.710 min Scan# 1465
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:330 Resp: 634270

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.6	116.4
141	28.4	24.7	37.1

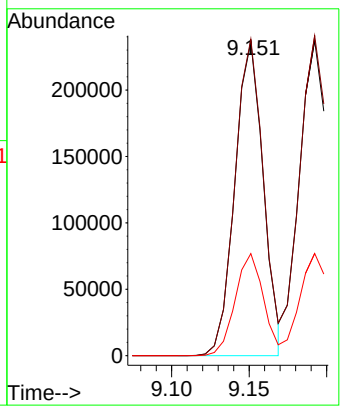




#43
2,4,6-Trichlorophenol
Concen: 45.456 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:196 Resp: 30141

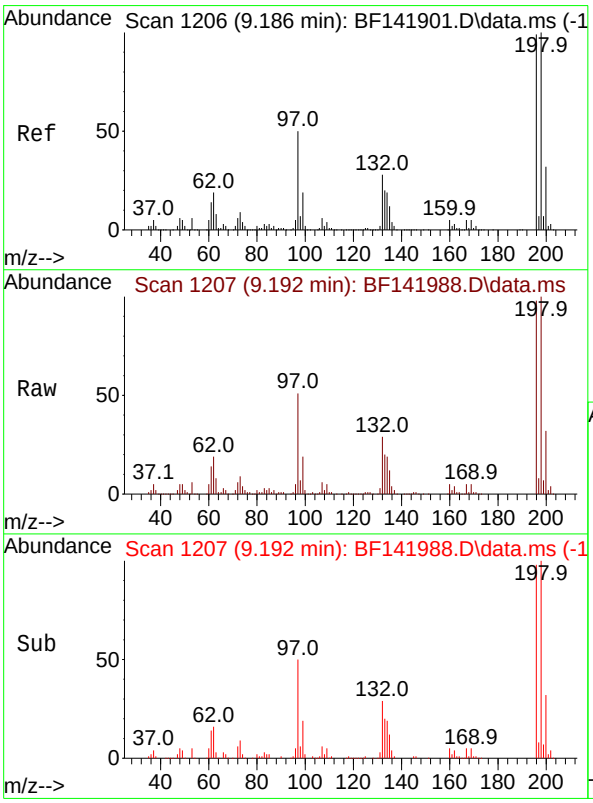
Ion	Ratio	Lower	Upper
196	100		
198	100.9	80.6	121.0
200	32.5	25.8	38.6



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

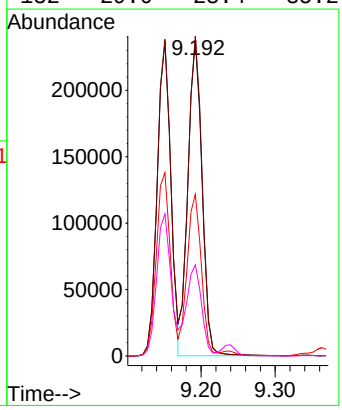
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

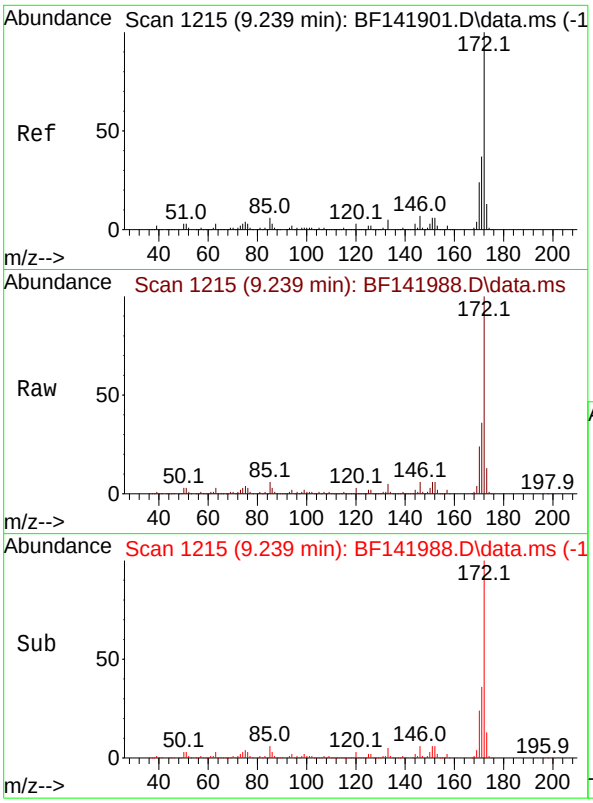


#44
2,4,5-Trichlorophenol
Concen: 46.874 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:196 Resp: 314799

Ion	Ratio	Lower	Upper
196	100		
198	101.5	80.7	121.1
97	51.3	42.1	63.1
132	29.0	23.4	35.2

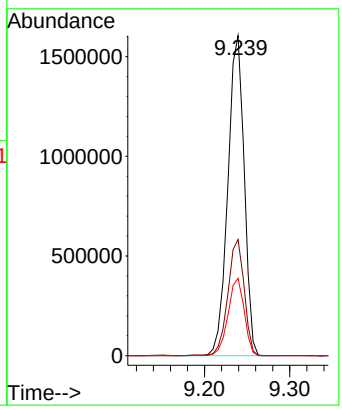




#45
2-Fluorobiphenyl
Concen: 97.649 ng
RT: 9.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:172 Resp: 213979

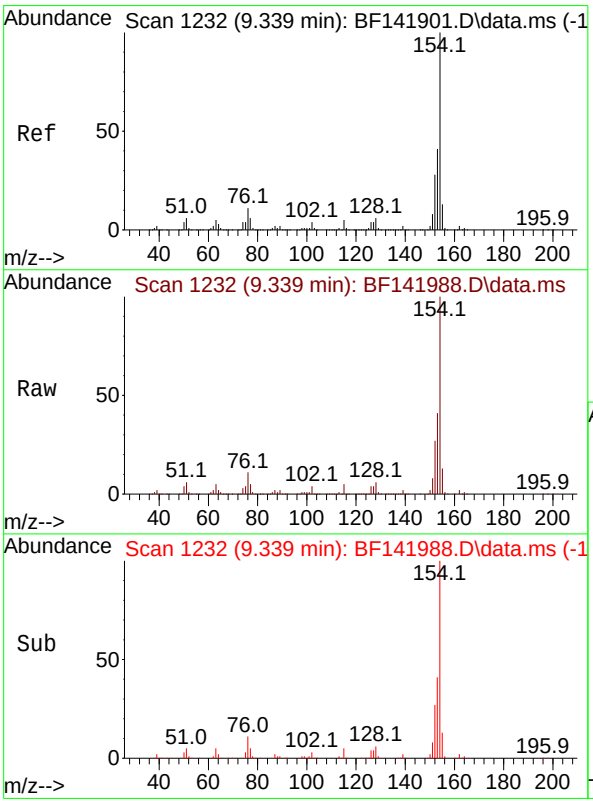
Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.3	43.9
170	24.1	19.4	29.0



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

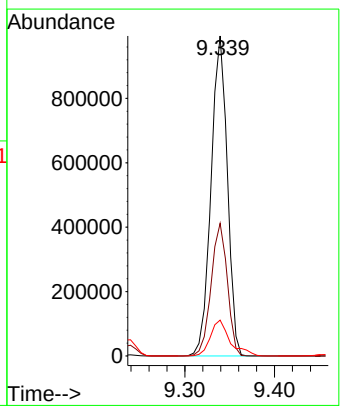
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

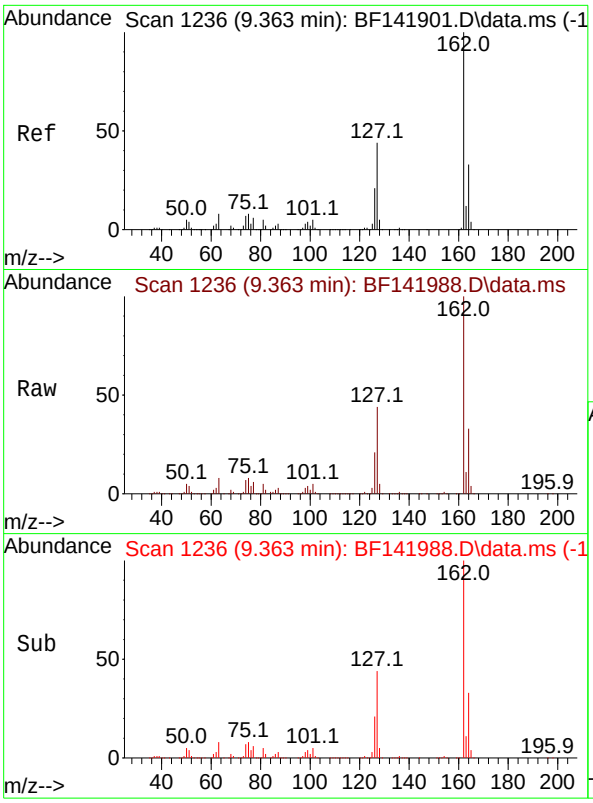


#46
1,1'-Biphenyl
Concen: 49.420 ng
RT: 9.339 min Scan# 1232
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:154 Resp: 1251387

Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.1	61.1
76	11.2	0.0	31.3

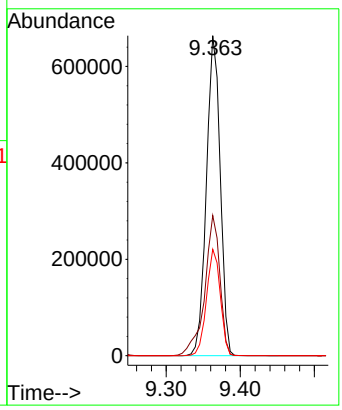




#47
2-Chloronaphthalene
Concen: 45.544 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:162 Resp: 85955

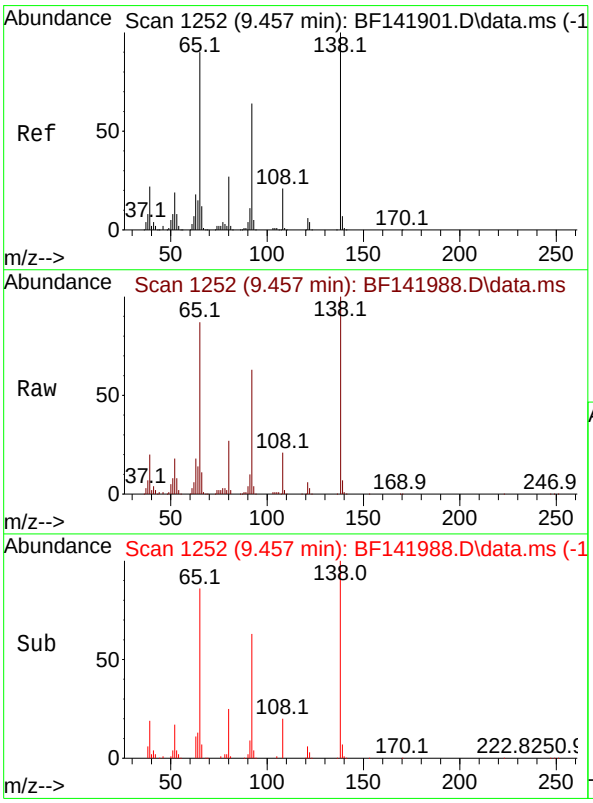
Ion	Ratio	Lower	Upper
162	100		
127	43.8	35.5	53.3
164	33.2	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

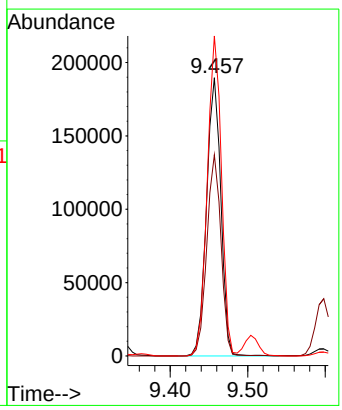
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

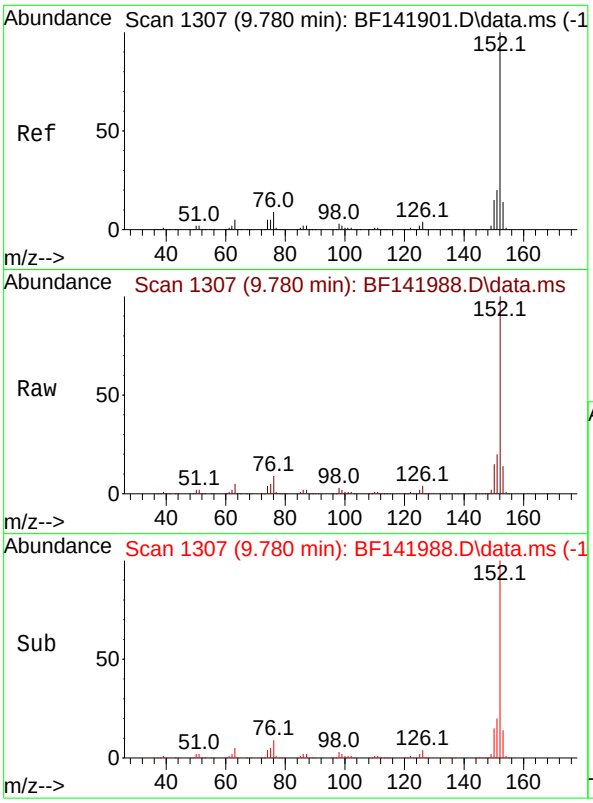


#48
2-Nitroaniline
Concen: 44.601 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 65 Resp: 243726

Ion	Ratio	Lower	Upper
65	100		
92	72.3	56.6	84.8
138	115.0	88.6	133.0

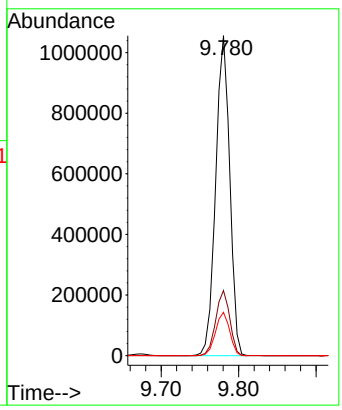




#49
Acenaphthylene
Concen: 47.682 ng
RT: 9.780 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:152 Resp: 133543

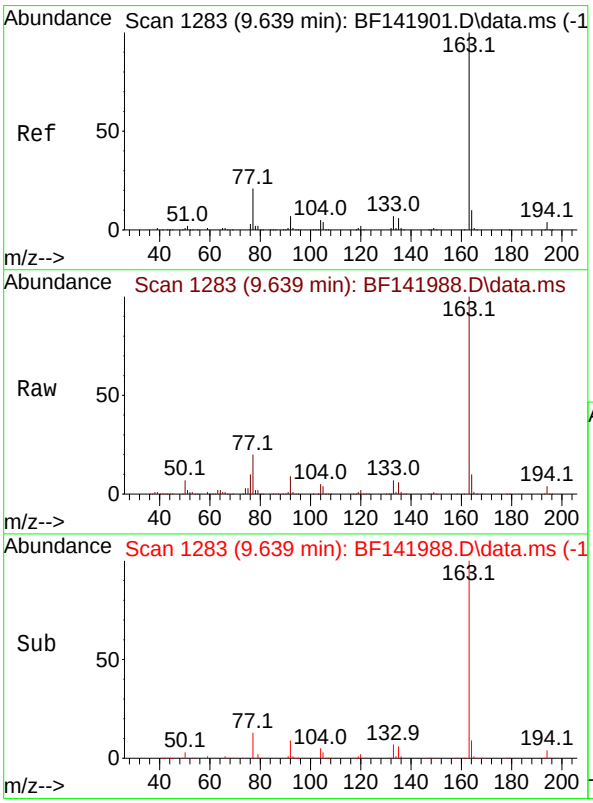
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	13.5	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

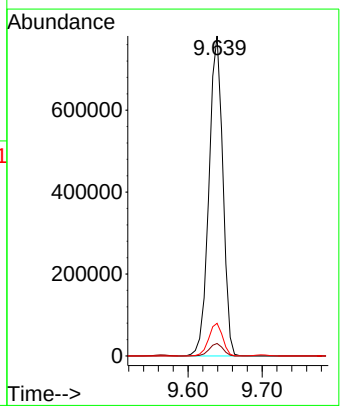
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

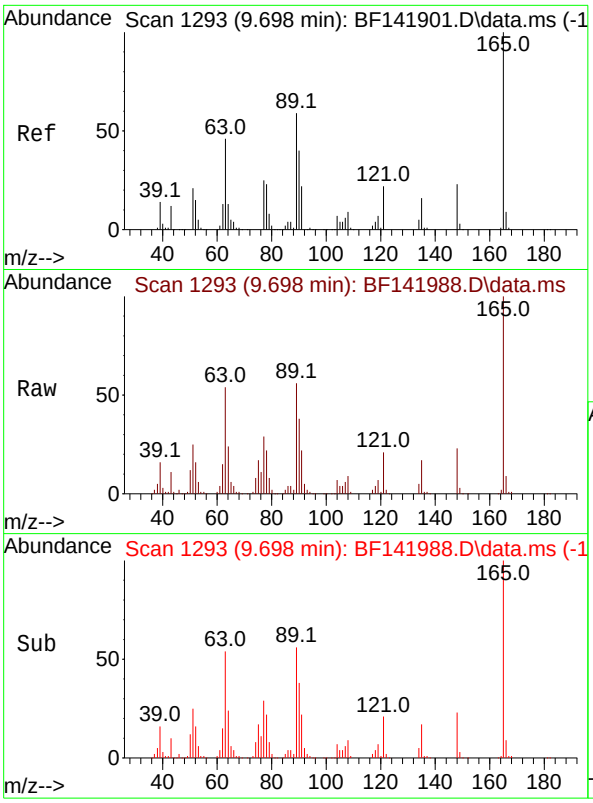


#50
Dimethylphthalate
Concen: 43.521 ng
RT: 9.639 min Scan# 1283
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:163 Resp: 1015664

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.2	8.2	12.4





#51
2,6-Dinitrotoluene
Concen: 45.610 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

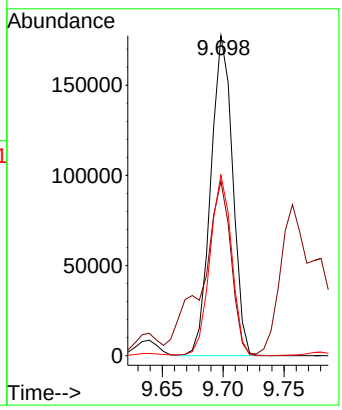
Tgt Ion:165 Resp: 22161

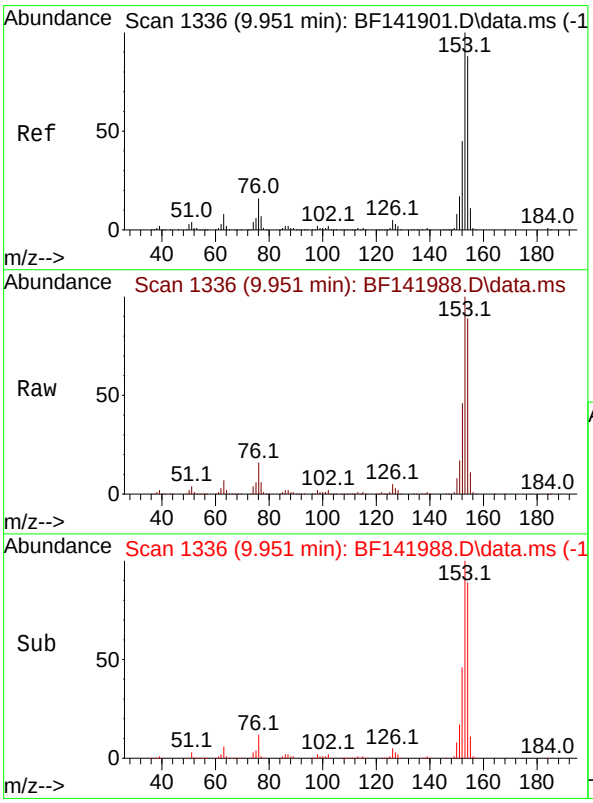
Ion	Ratio	Lower	Upper
165	100		
63	54.5	47.0	70.4
89	56.4	47.4	71.2

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

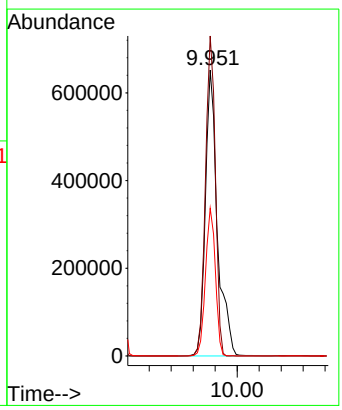


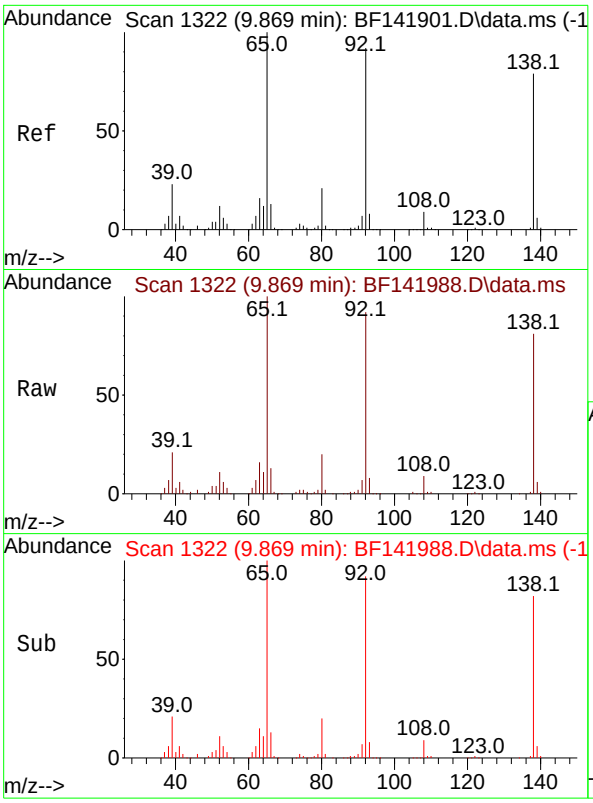


#52
Acenaphthene
Concen: 50.351 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:154 Resp: 991021

Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.7	136.1
152	51.7	41.1	61.7





#53
3-Nitroaniline
Concen: 27.894 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

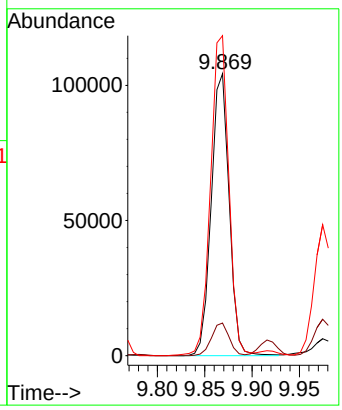
Tgt Ion:138 Resp: 13748

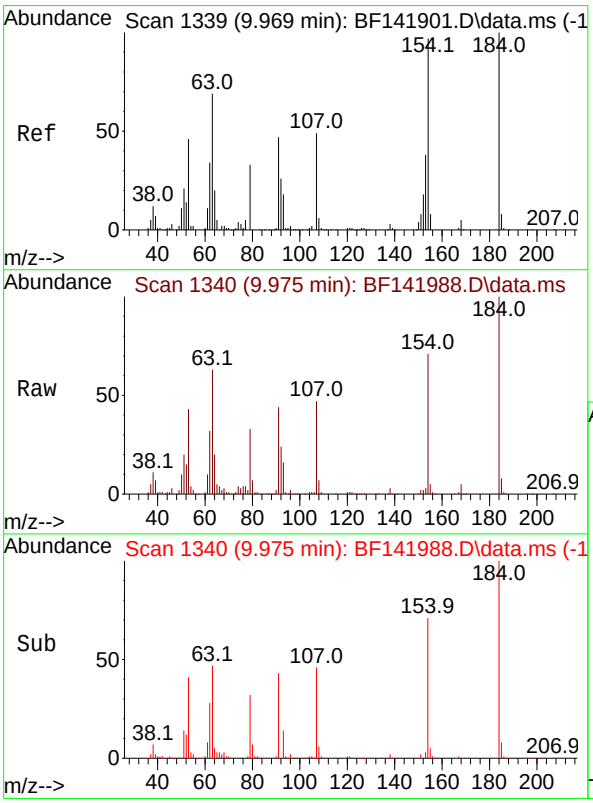
Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.3	13.9
92	113.5	93.5	140.3

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

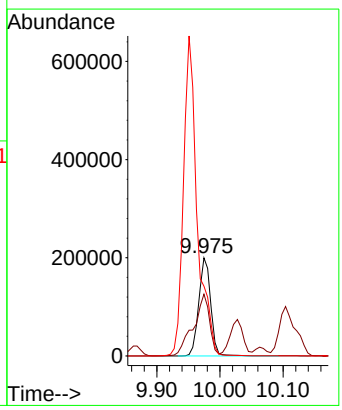


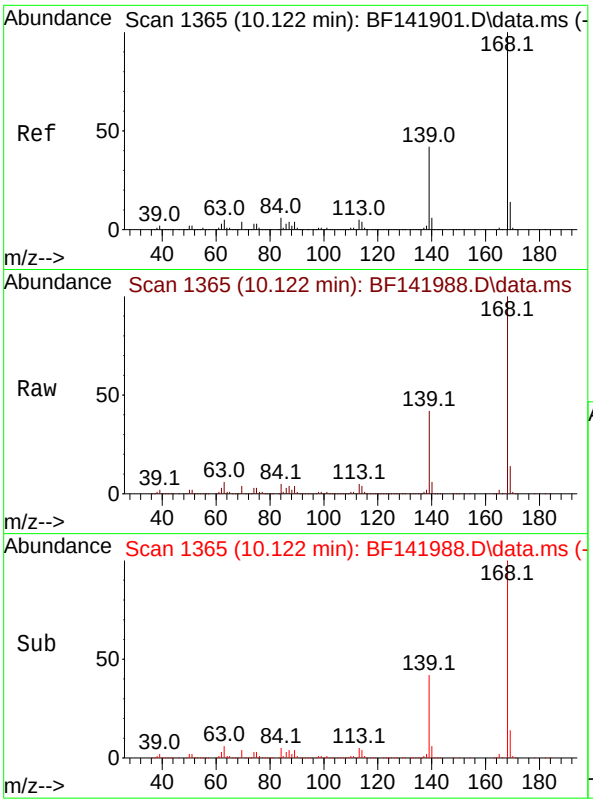


#54
2,4-Dinitrophenol
Concen: 93.511 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:184 Resp: 261502

Ion	Ratio	Lower	Upper
184	100		
63	63.0	60.2	90.4
154	71.1	132.9	199.3#

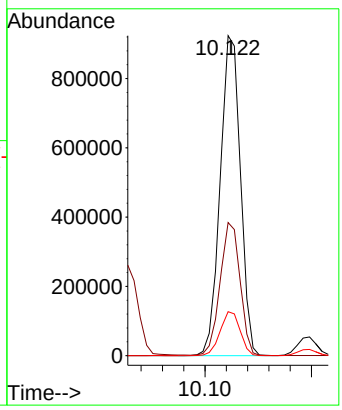




#55
Dibenzofuran
Concen: 43.277 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:168 Resp: 121709

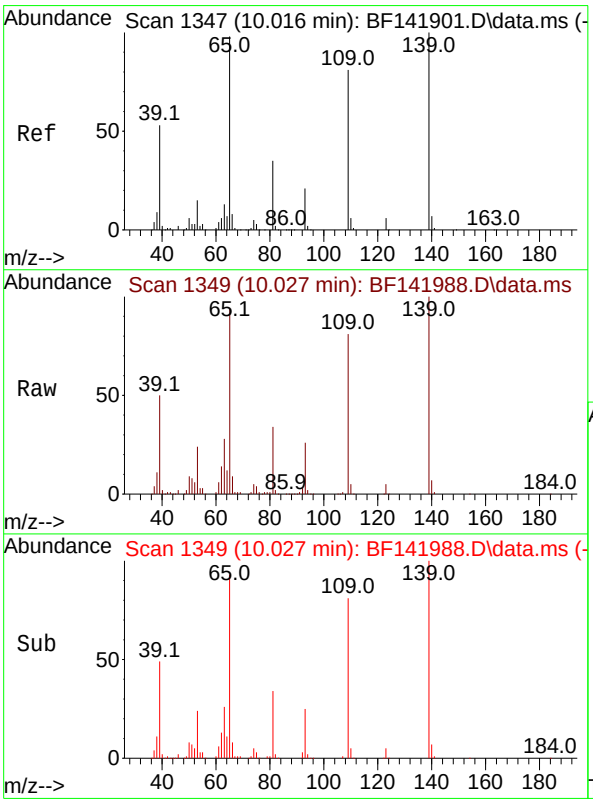
Ion	Ratio	Lower	Upper
168	100		
139	41.6	33.9	50.9
169	13.7	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

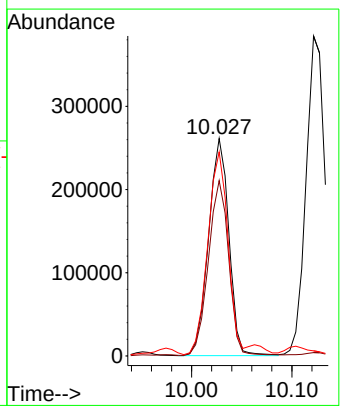
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

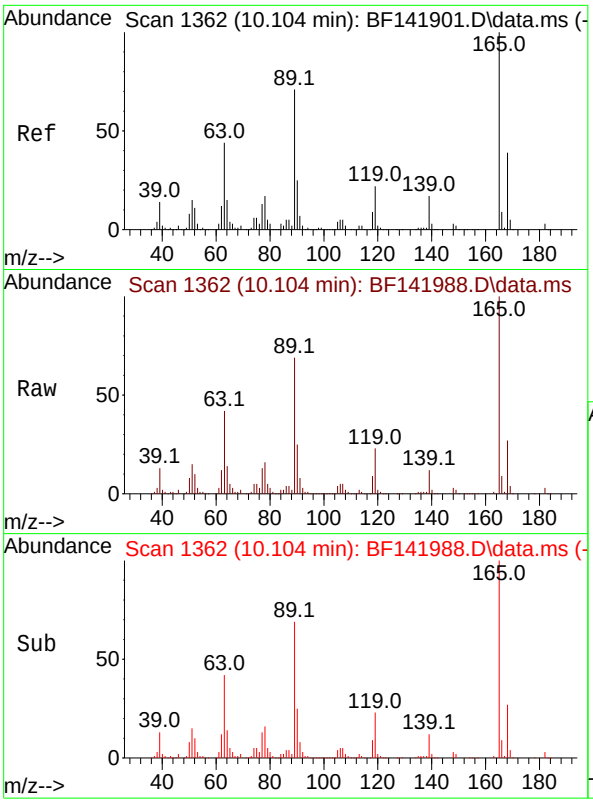


#56
4-Nitrophenol
Concen: 98.900 ng
RT: 10.027 min Scan# 1349
Delta R.T. 0.012 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:139 Resp: 367609

Ion	Ratio	Lower	Upper
139	100		
109	80.7	61.6	101.6
65	93.8	79.4	119.4

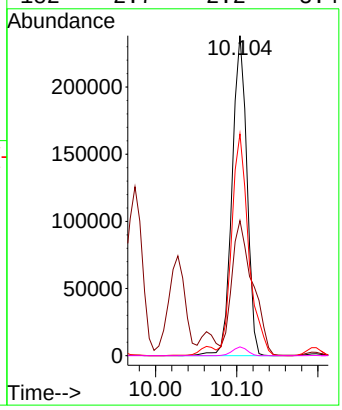




#57
2,4-Dinitrotoluene
Concen: 47.561 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:165 Resp: 30183

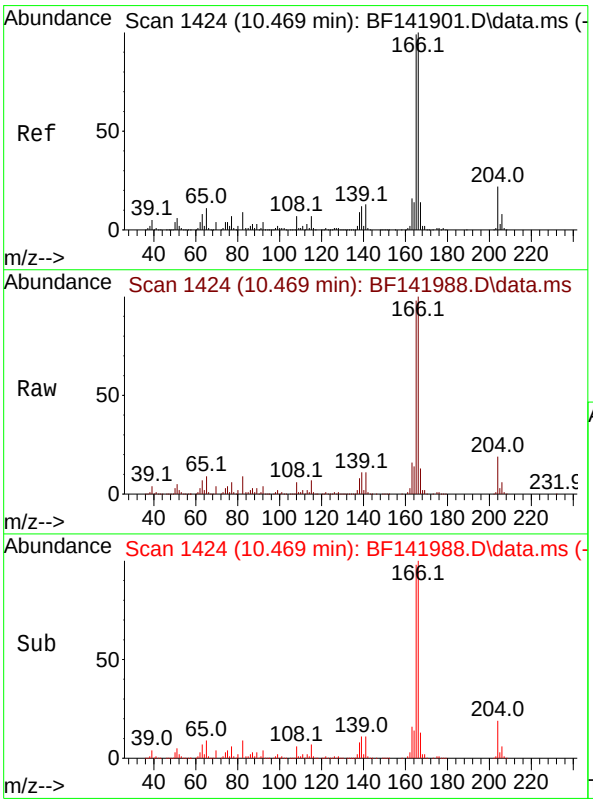
Ion	Ratio	Lower	Upper
165	100		
63	42.2	35.4	53.2
89	69.3	56.6	84.8
182	2.7	2.2	3.4



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

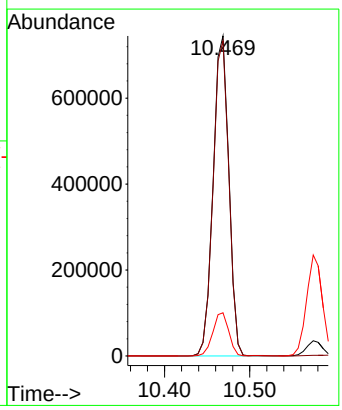
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

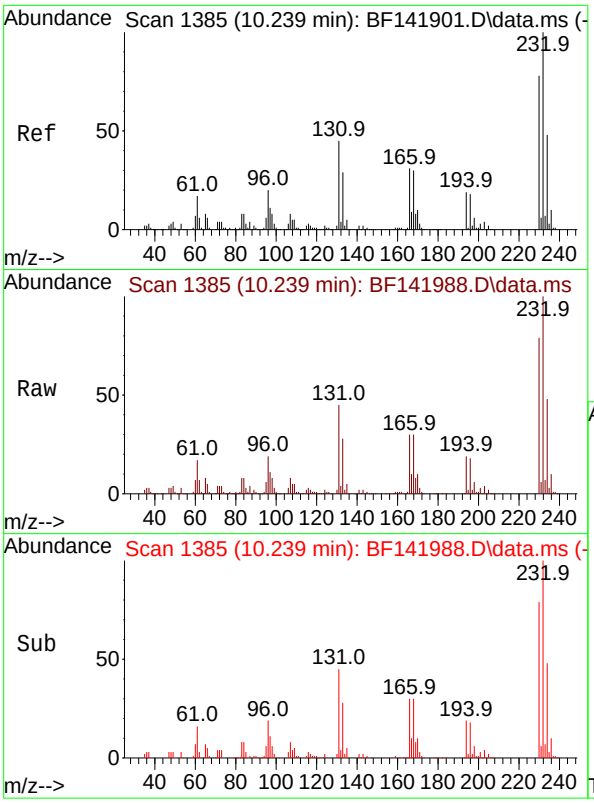


#58
Fluorene
Concen: 44.021 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:166 Resp: 954715

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.0	118.4
167	13.5	11.0	16.4

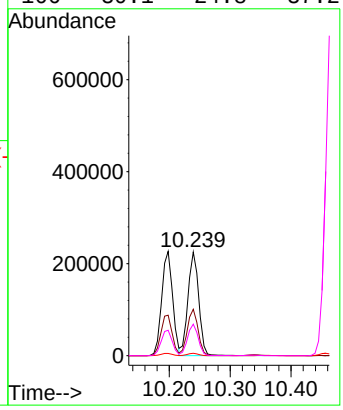




#59
2,3,4,6-Tetrachlorophenol
Concen: 45.502 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:232 Resp: 27807

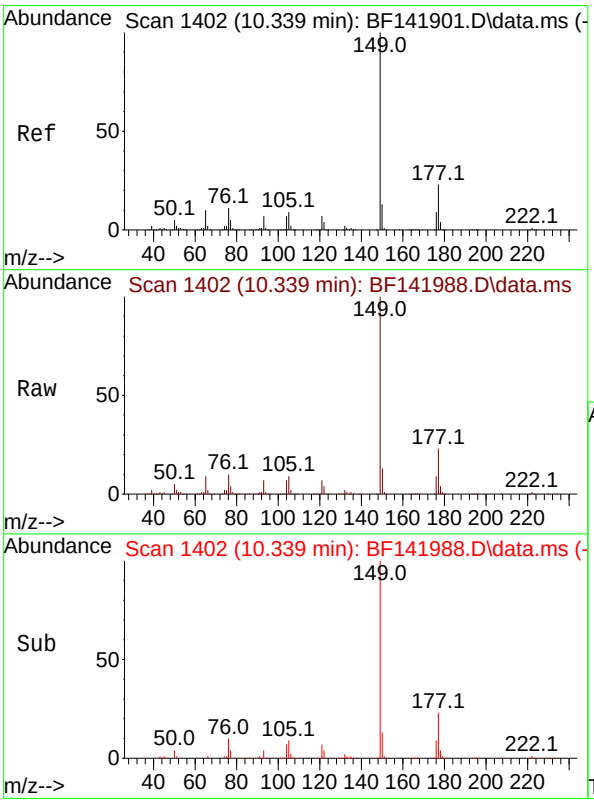
Ion	Ratio	Lower	Upper
232	100		
131	44.8	37.3	55.9
130	2.3	1.9	2.9
166	30.1	24.8	37.2



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

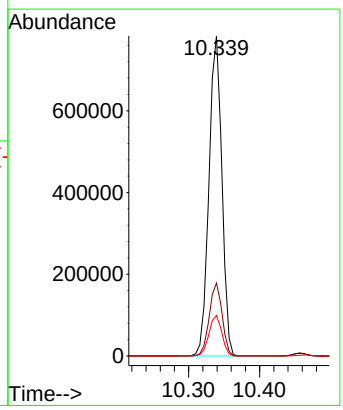
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

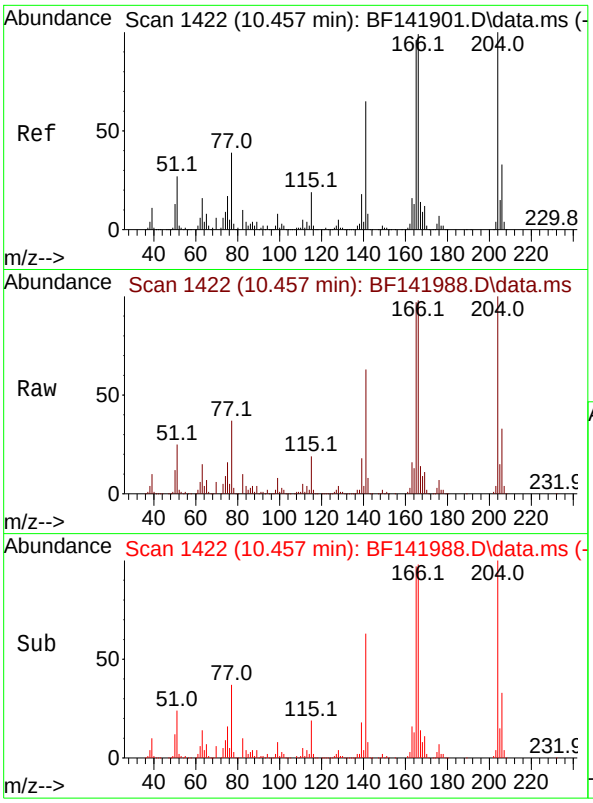


#60
Diethylphthalate
Concen: 42.558 ng
RT: 10.339 min Scan# 1402
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:149 Resp: 990323

Ion	Ratio	Lower	Upper
149	100		
177	22.8	18.0	27.0
150	12.7	10.2	15.4





#61
4-Chlorophenyl-phenylether
Concen: 43.691 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

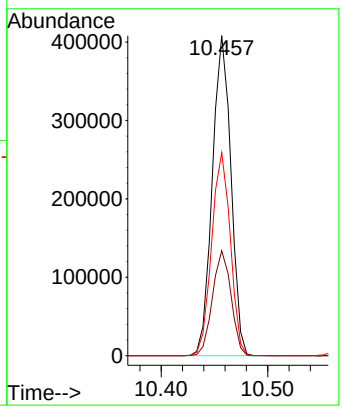
Instrument :
BNA_F
ClientSampleId :
PB167168BS

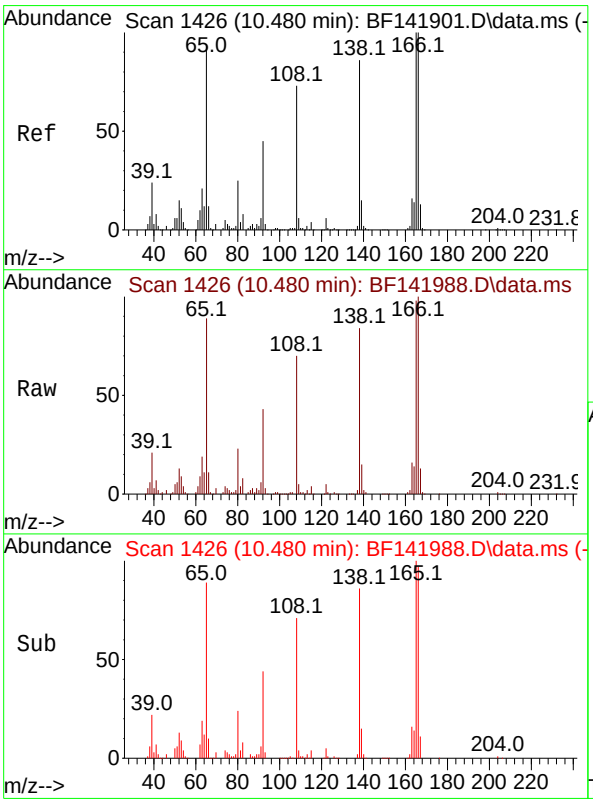
Tgt Ion:204 Resp: 49401(

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.8	40.2
141	63.5	52.4	78.6

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

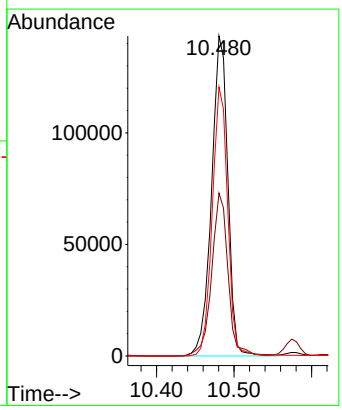


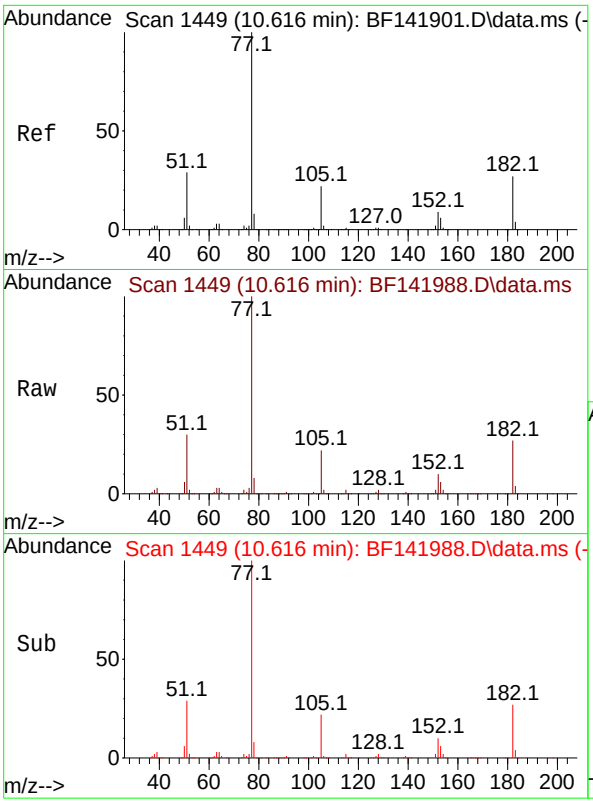


#62
4-Nitroaniline
Concen: 43.724 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:138 Resp: 209808

Ion	Ratio	Lower	Upper
138	100		
92	50.9	32.6	72.6
108	84.1	65.0	105.0

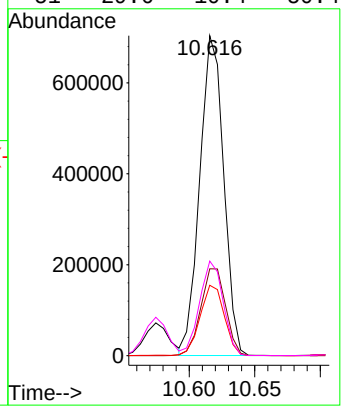




#63
Azobenzene
Concen: 41.365 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 77 Resp: 89490

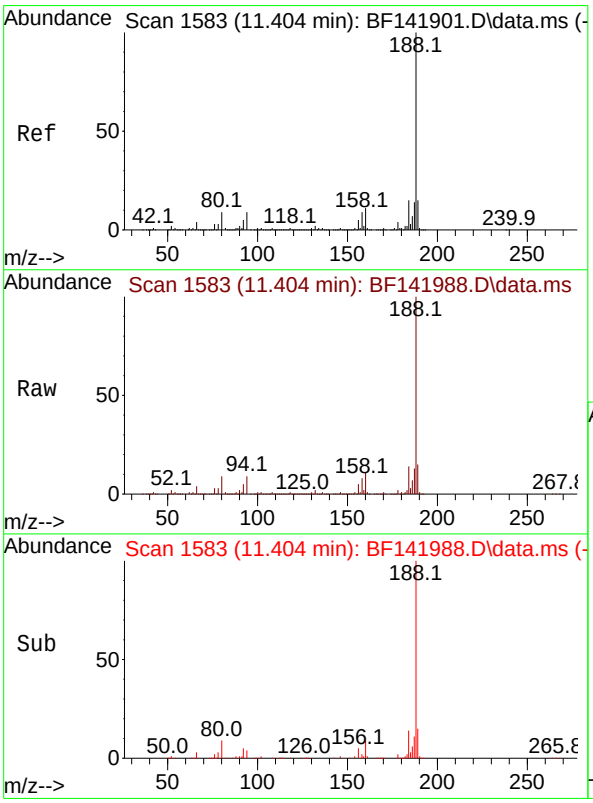
Ion	Ratio	Lower	Upper
77	100		
182	27.2	6.6	46.6
105	22.0	1.3	41.3
51	29.6	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

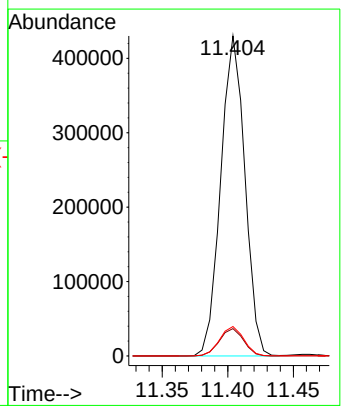
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

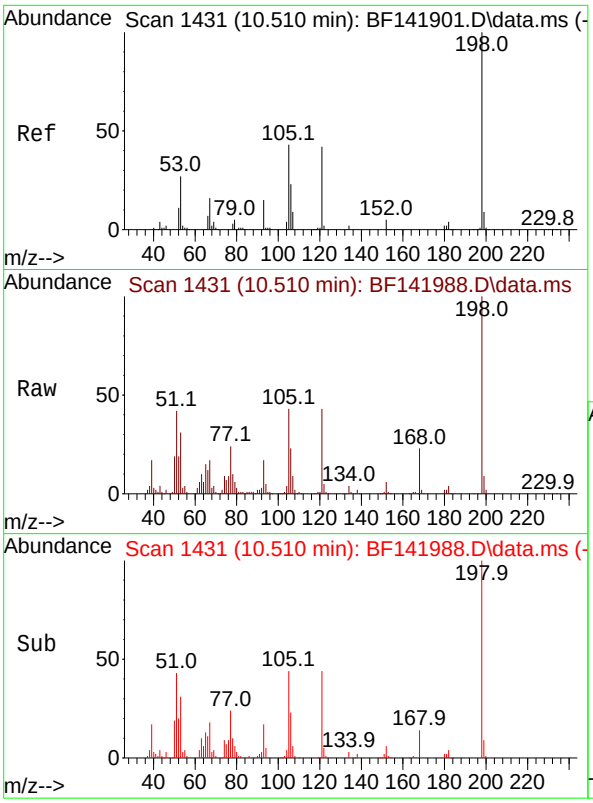


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:188 Resp: 550204

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.8	10.2
80	9.2	7.6	11.4





#65
4,6-Dinitro-2-methylphenol
Concen: 49.508 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

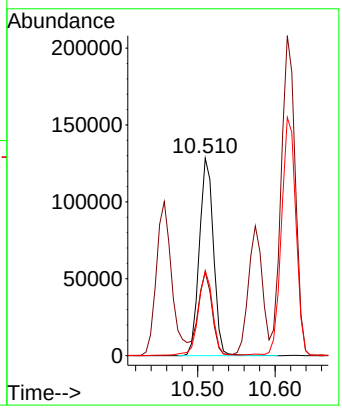
Tgt Ion:198 Resp: 16238

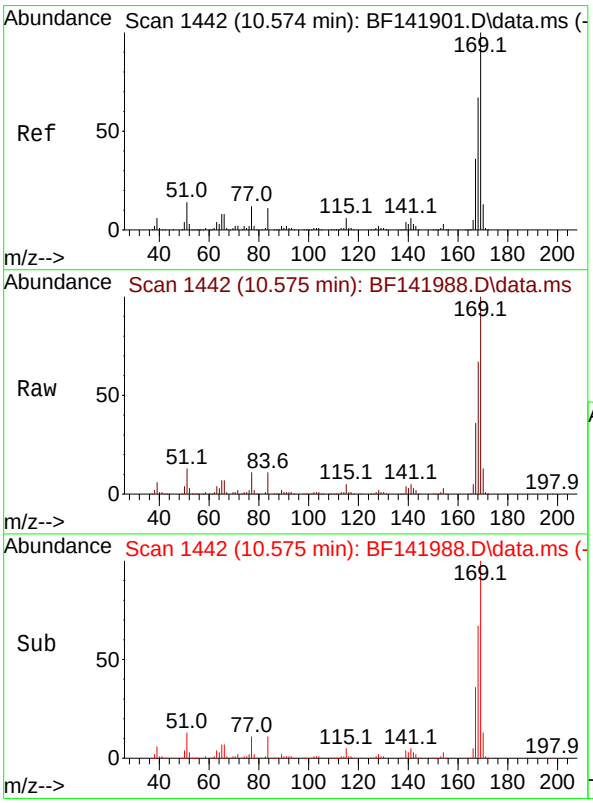
Ion	Ratio	Lower	Upper
198	100		
51	42.3	22.3	62.3
105	43.1	23.0	63.0

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

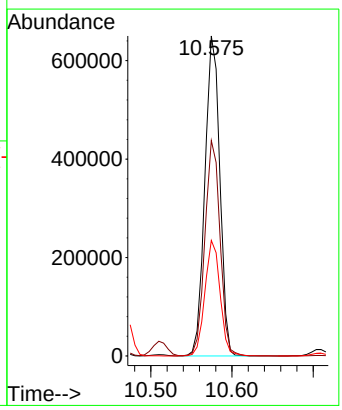


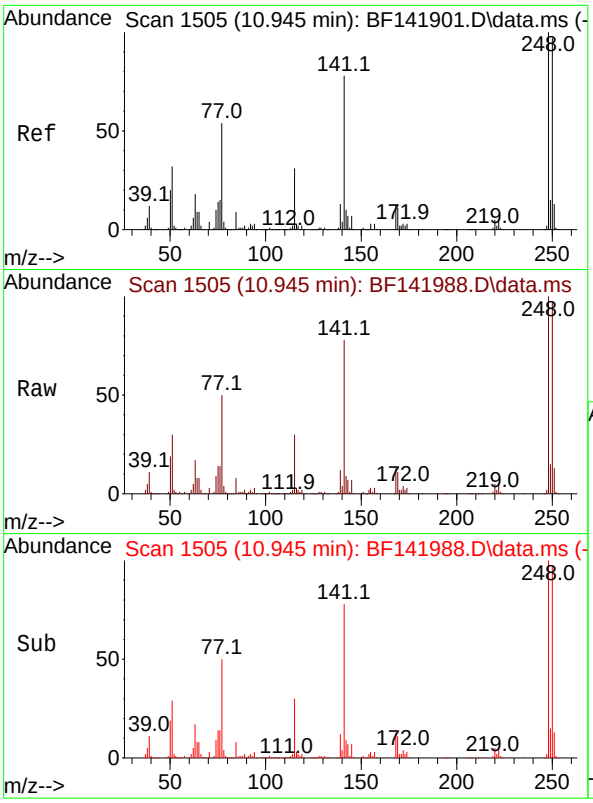


#66
n-Nitrosodiphenylamine
Concen: 46.450 ng
RT: 10.575 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:169 Resp: 827044

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.7	80.5
167	36.1	29.2	43.8





#67
4-Bromophenyl-phenylether
Concen: 45.987 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

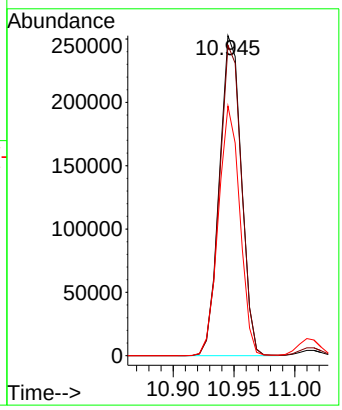
Tgt Ion:248 Resp: 31776

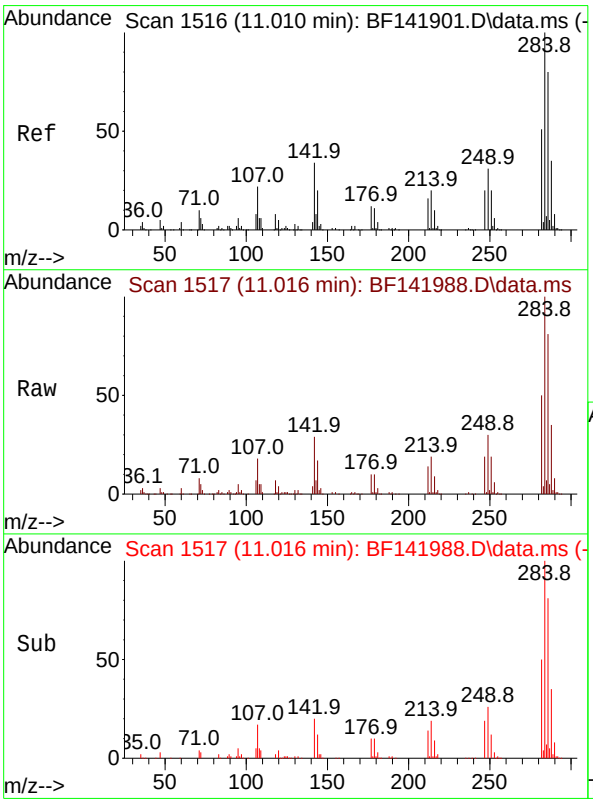
Ion	Ratio	Lower	Upper
248	100		
250	97.0	77.8	116.8
141	78.0	62.6	93.8

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

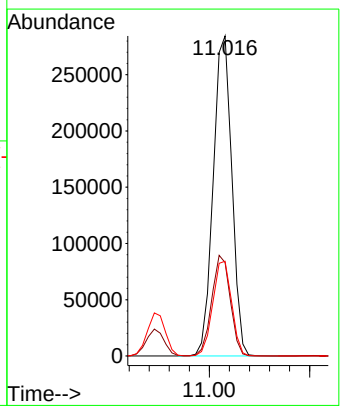


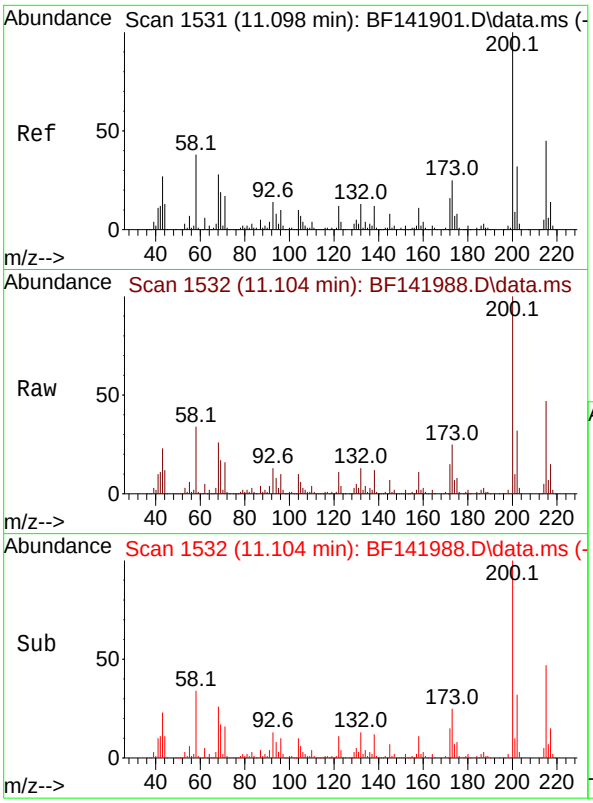


#68
Hexachlorobenzene
Concen: 48.306 ng
RT: 11.016 min Scan# 1517
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:284 Resp: 366094

Ion	Ratio	Lower	Upper
284	100		
142	29.2	27.0	40.6
249	29.6	25.2	37.8

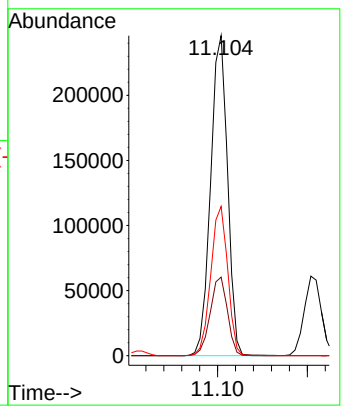




#69
Atrazine
Concen: 59.022 ng
RT: 11.104 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:200 Resp: 32215

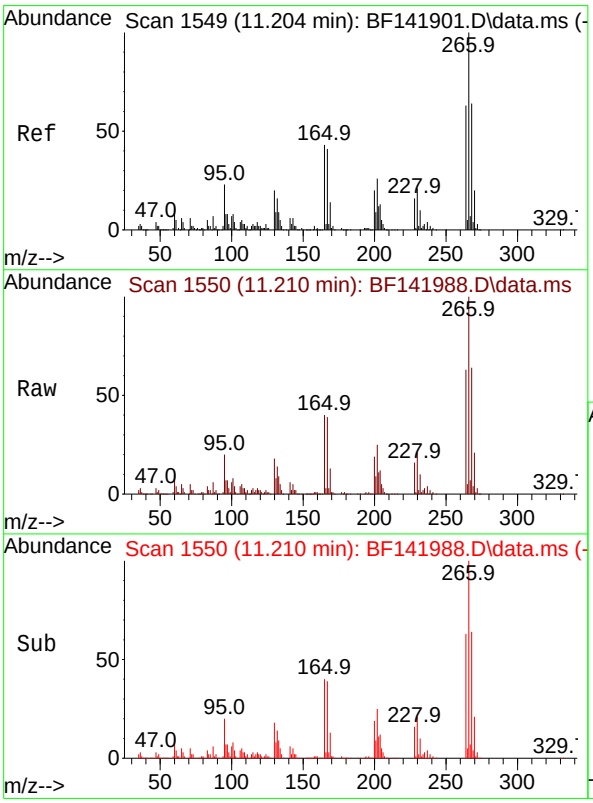
Ion	Ratio	Lower	Upper
200	100		
173	24.6	4.7	44.7
215	46.7	25.4	65.4



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

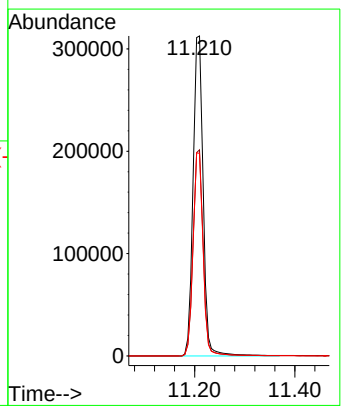
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

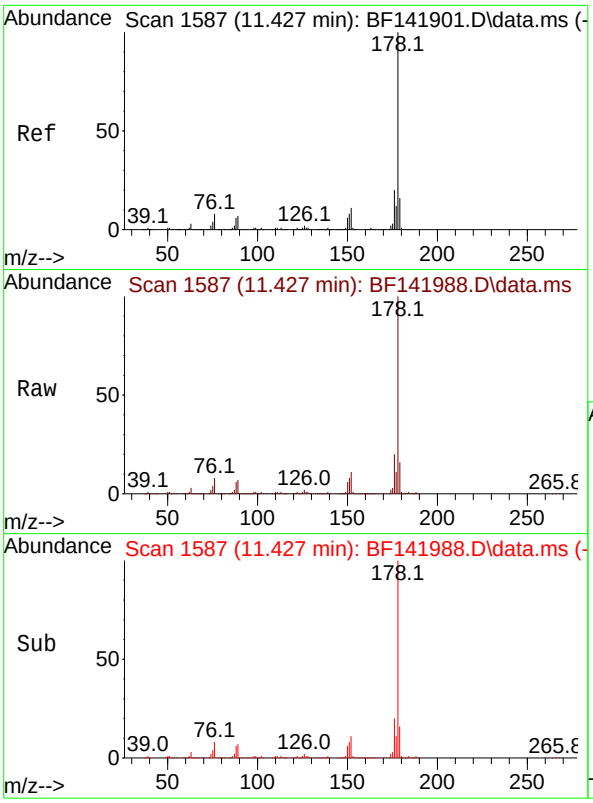


#70
Pentachlorophenol
Concen: 93.351 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:266 Resp: 435894

Ion	Ratio	Lower	Upper
266	100		
268	64.4	51.0	76.6
264	63.3	50.2	75.2

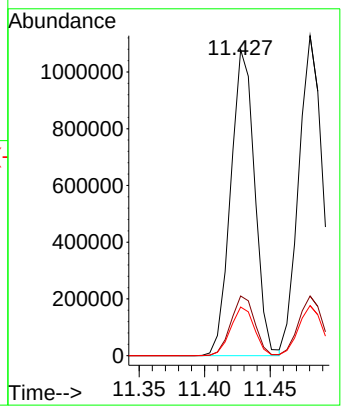




#71
Phenanthrene
Concen: 46.249 ng
RT: 11.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:178 Resp: 137445

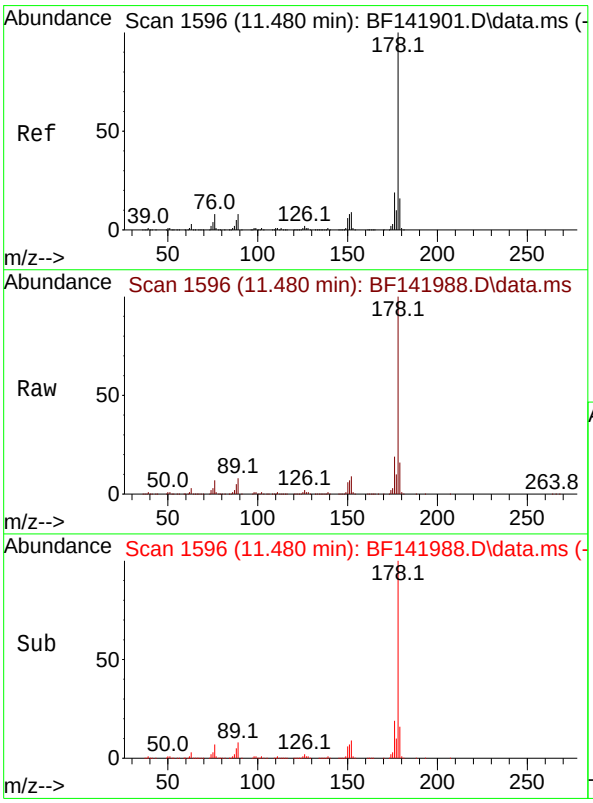
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.9	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

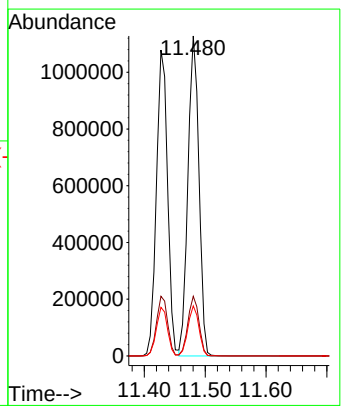
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

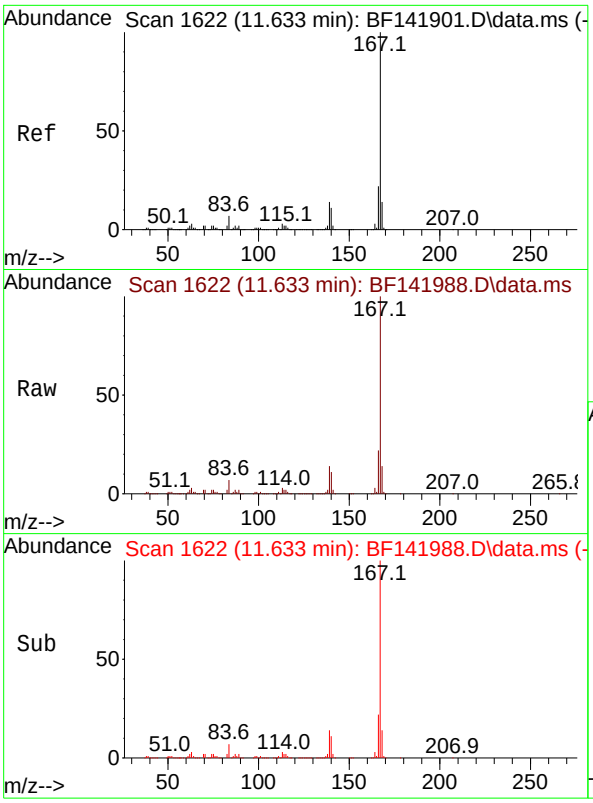


#72
Anthracene
Concen: 47.387 ng
RT: 11.480 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:178 Resp: 1412854

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.1	22.7
179	15.7	12.6	19.0

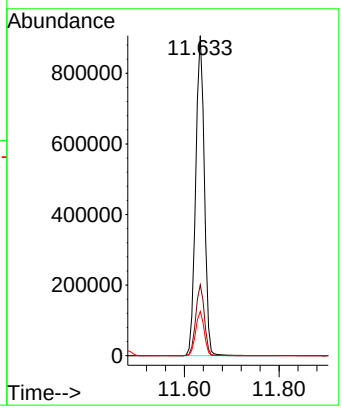




#73
Carbazole
Concen: 44.932 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

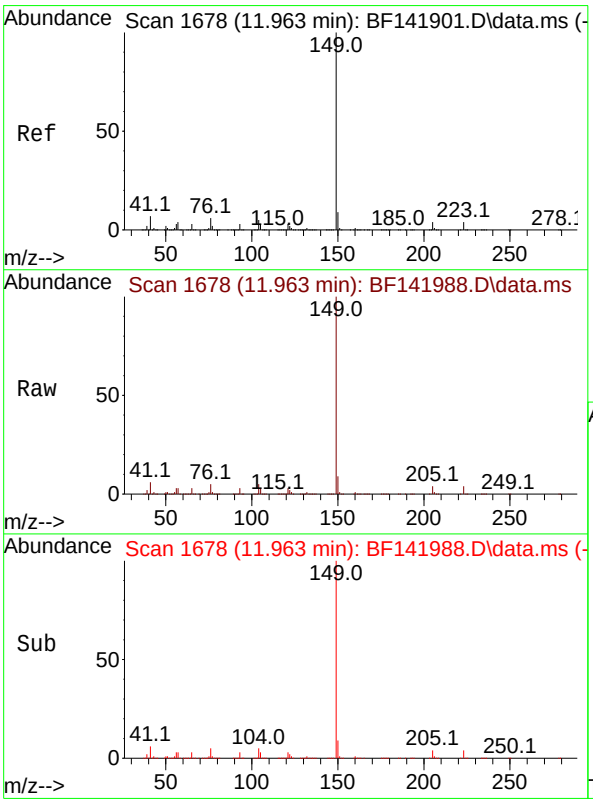
Tgt Ion:167 Resp: 115534

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.4	26.2
139	13.8	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
PB167168BS

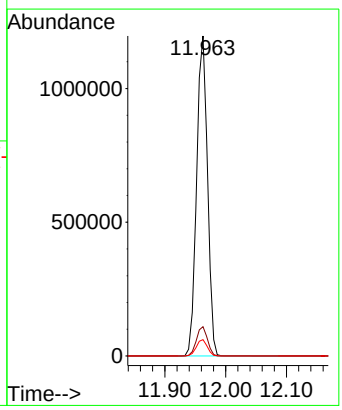
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

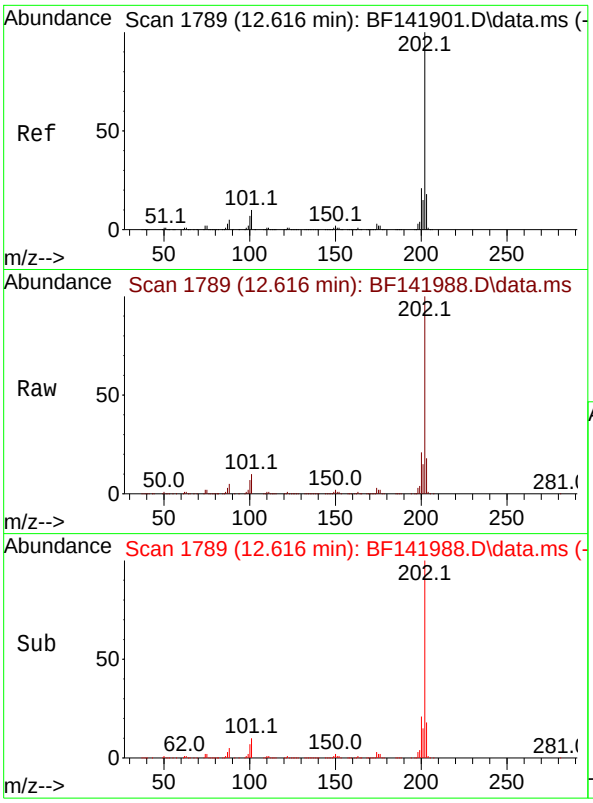


#74
Di-n-butylphthalate
Concen: 43.374 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:149 Resp: 1479834

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.6	11.4
104	5.1	4.4	6.6

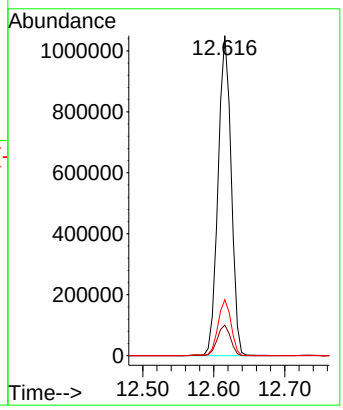




#75
Fluoranthene
Concen: 42.479 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:202 Resp: 133912

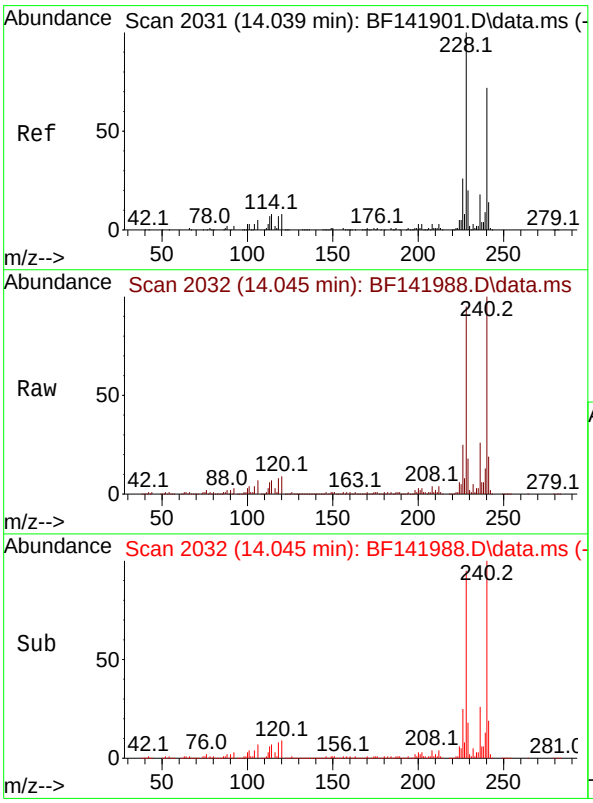
Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	29.7
203	17.5	0.0	37.8



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

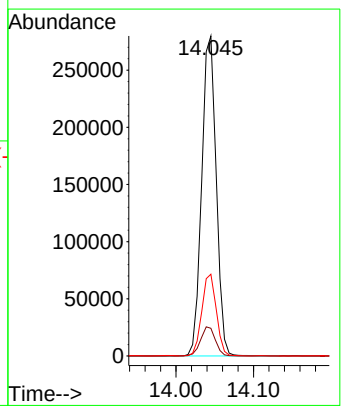
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

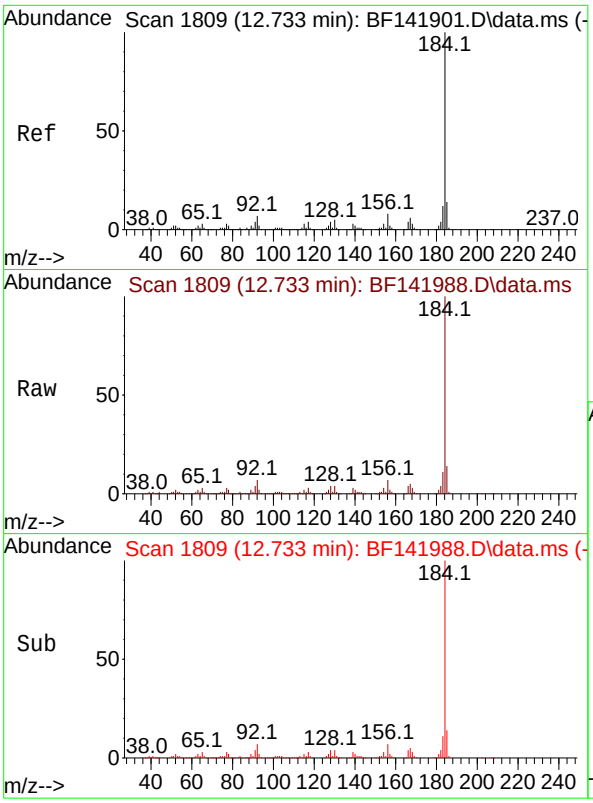


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:240 Resp: 364178

Ion	Ratio	Lower	Upper
240	100		
120	8.6	8.4	12.6
236	25.5	20.5	30.7

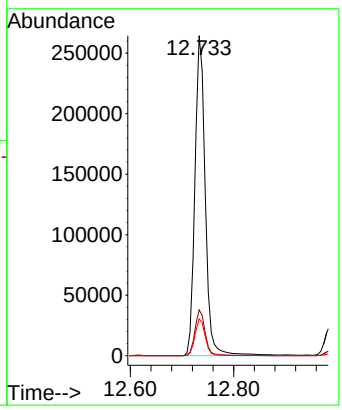




#77
Benzidine
Concen: 72.405 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:184 Resp: 36789

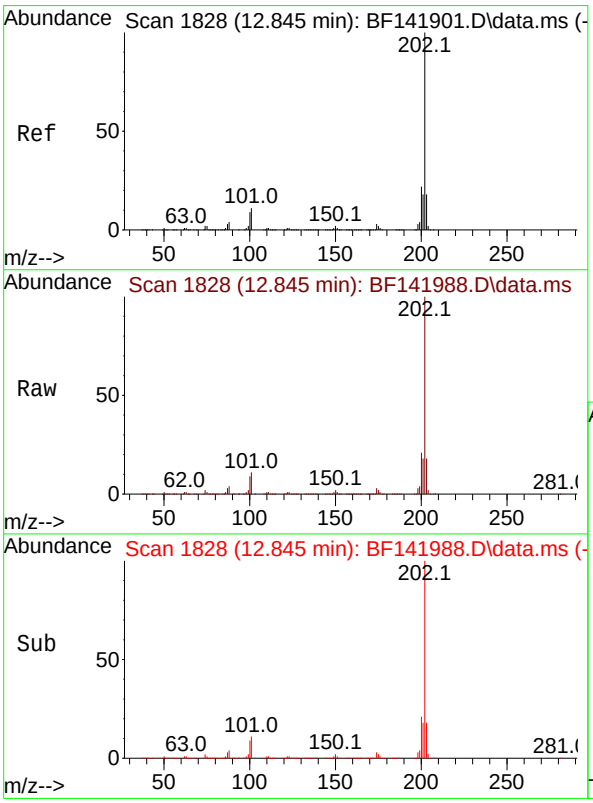
Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.5	17.3
183	11.5	9.7	14.5



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

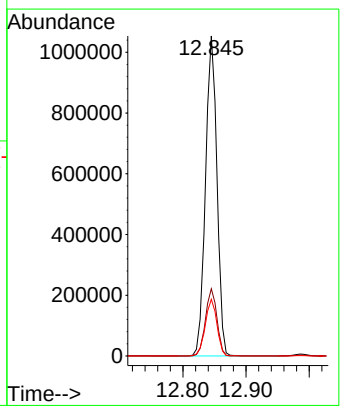
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

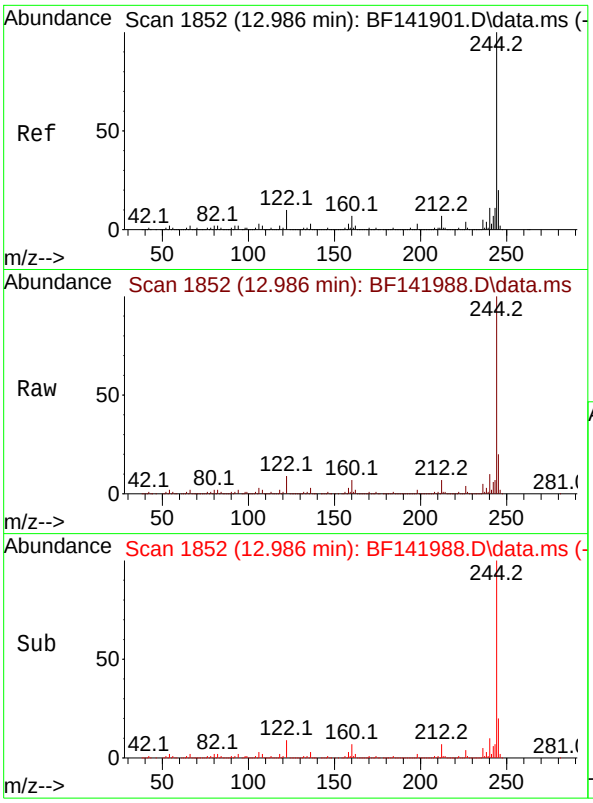


#78
Pyrene
Concen: 42.241 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:202 Resp: 1330654

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.3	25.9
203	17.7	14.4	21.6

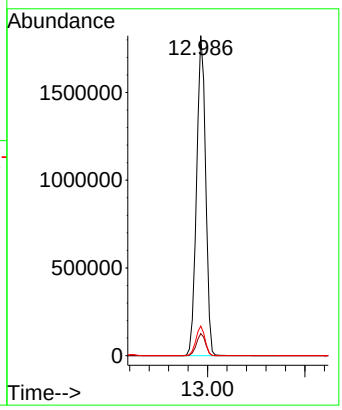




#79
Terphenyl-d14
Concen: 96.185 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:244 Resp: 236925

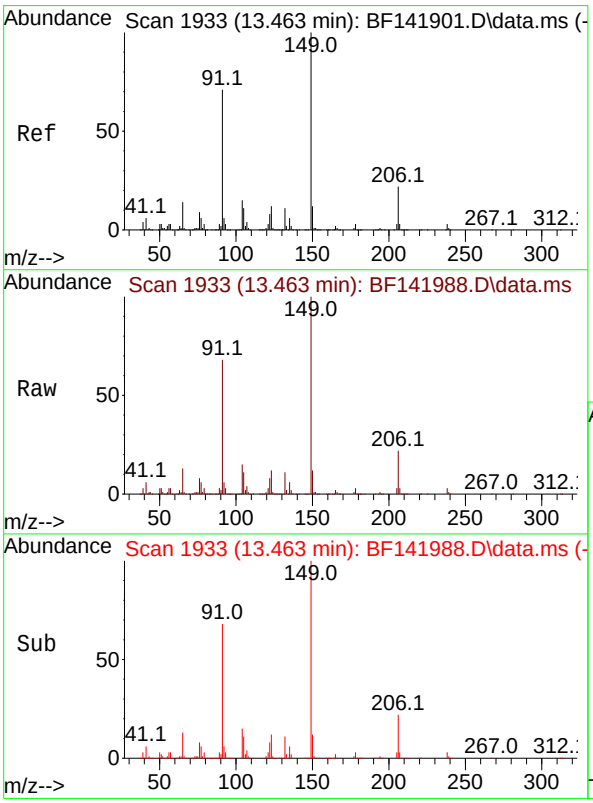
Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	9.2	7.7	11.5



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

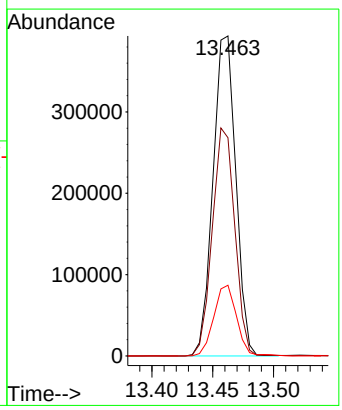
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

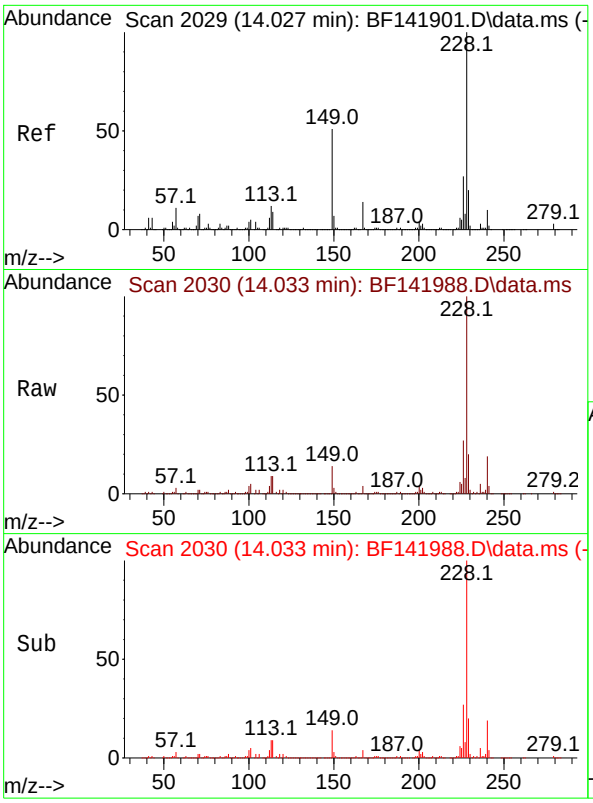


#80
Butylbenzylphthalate
Concen: 41.703 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:149 Resp: 514197

Ion	Ratio	Lower	Upper
149	100		
91	68.2	56.5	84.7
206	22.1	17.3	25.9

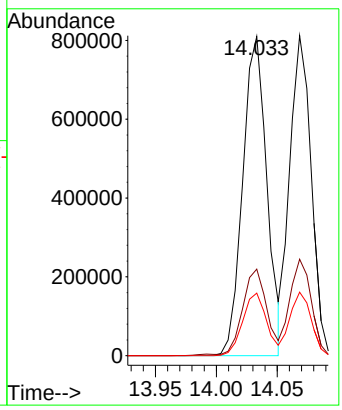




#81
Benzo(a)anthracene
Concen: 46.751 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:228 Resp: 111723

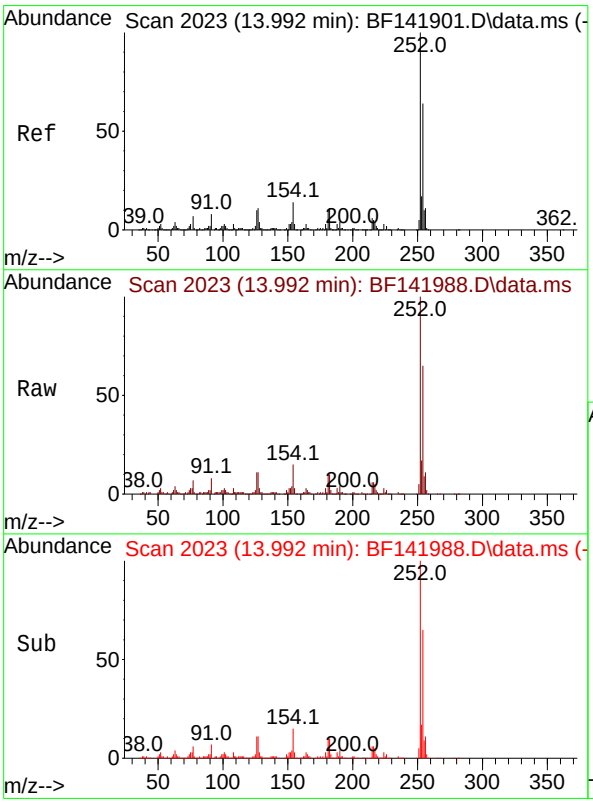
Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.6	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

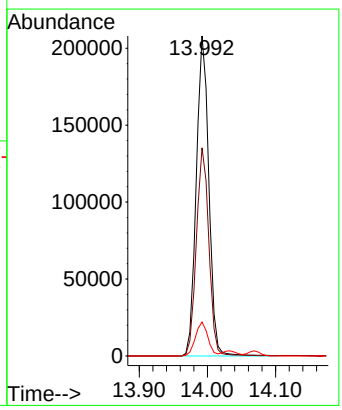
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

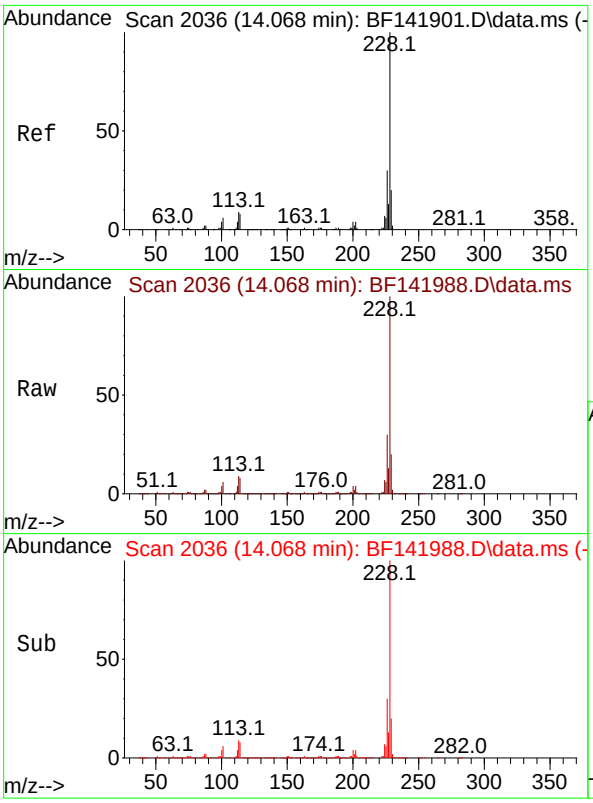


#82
3,3'-Dichlorobenzidine
Concen: 38.409 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:252 Resp: 265251

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.0	76.6
126	10.6	8.4	12.6





#83
Chrysene
Concen: 46.080 ng
RT: 14.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

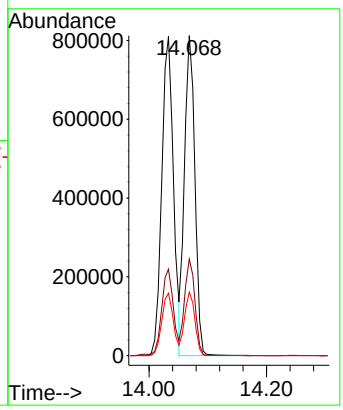
Tgt Ion:228 Resp: 99820

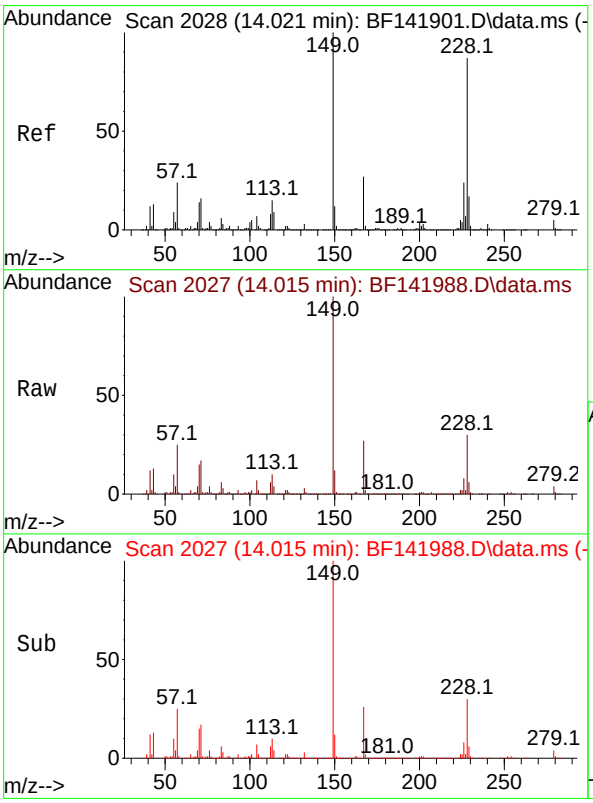
Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.1	36.1
229	19.8	15.7	23.5

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

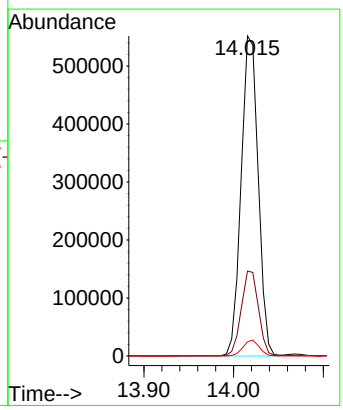


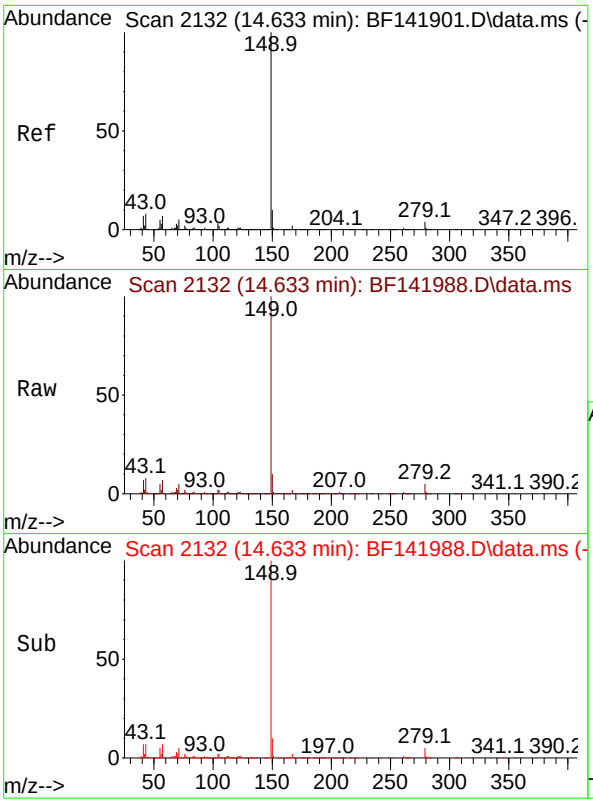


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.841 ng
RT: 14.015 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:149 Resp: 728315

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.0
279	4.5	3.8	5.6

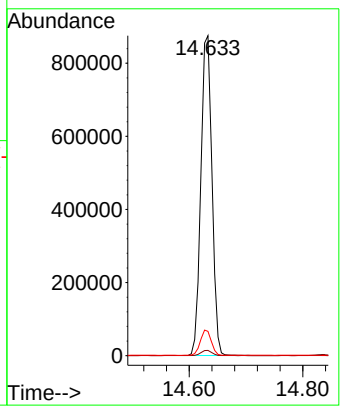




#85
Di-n-octyl phthalate
Concen: 50.266 ng
RT: 14.633 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:149 Resp: 118900

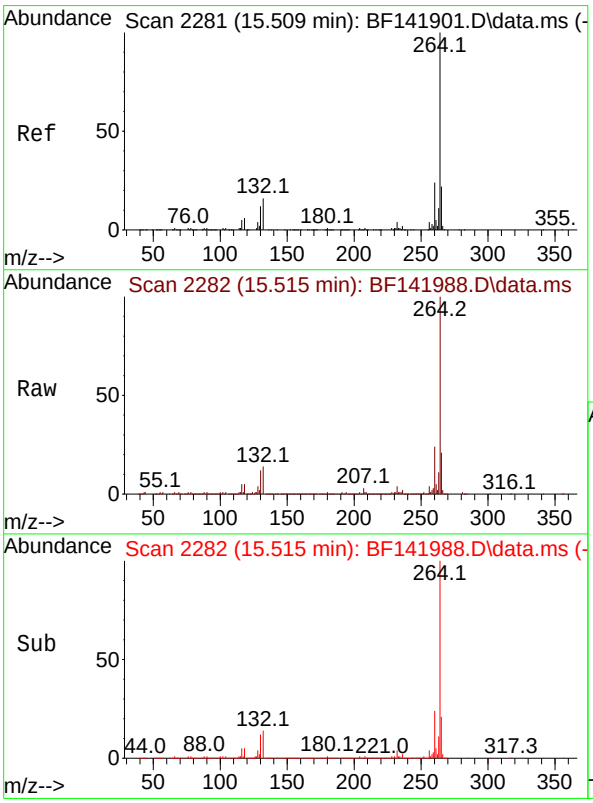
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.8	6.9	10.3



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

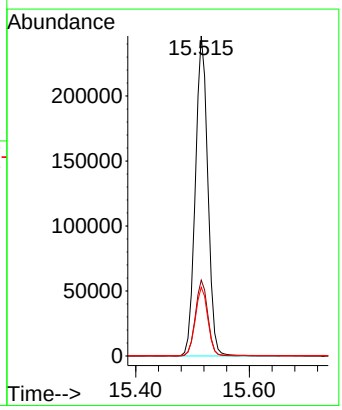
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

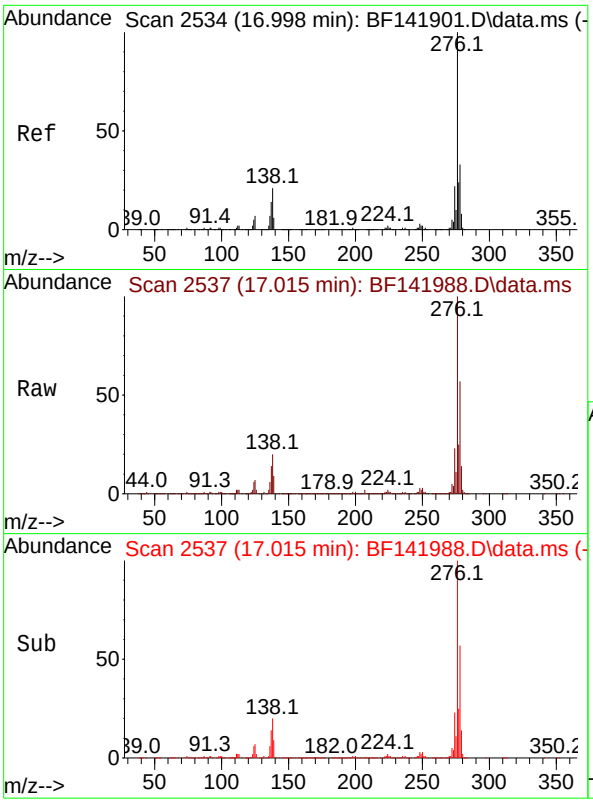


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:264 Resp: 375705

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.1	28.7
265	21.5	17.5	26.3

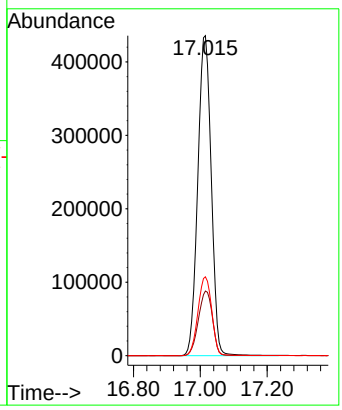




#87
Indeno(1,2,3-cd)pyrene
Concen: 50.004 ng
RT: 17.015 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:276 Resp: 121529

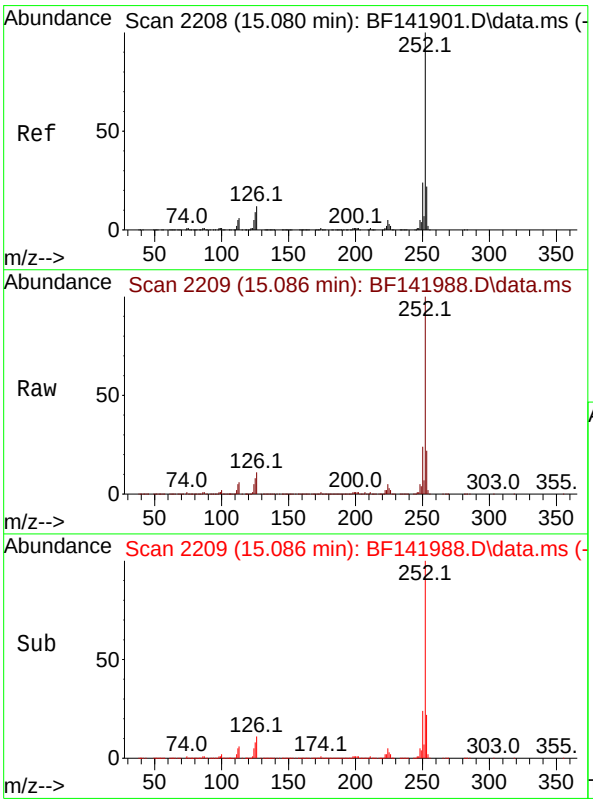
Ion	Ratio	Lower	Upper
276	100		
138	21.2	18.4	27.6
277	25.3	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

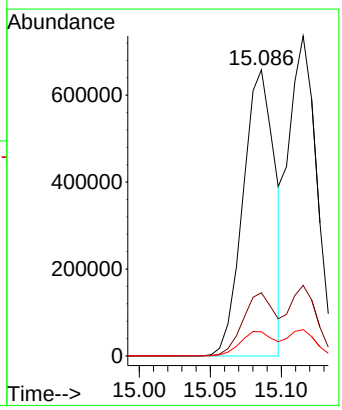
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

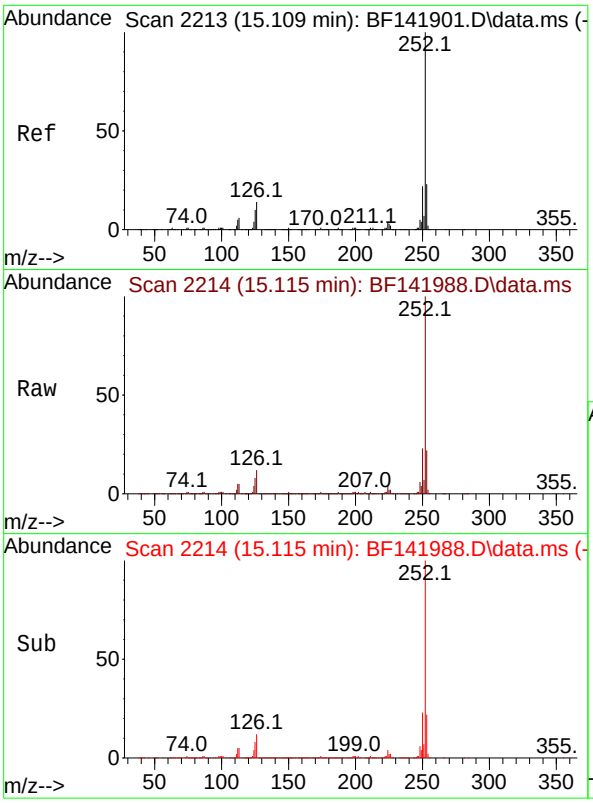


#88
Benzo(b)fluoranthene
Concen: 39.719 ng
RT: 15.086 min Scan# 2209
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:252 Resp: 1022729

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	8.5	7.0	10.4

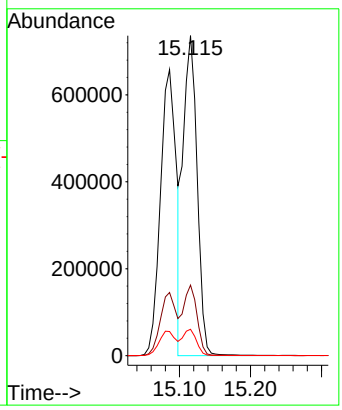




#89
Benzo(k)fluoranthene
Concen: 45.431 ng
RT: 15.115 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:252 Resp: 100108

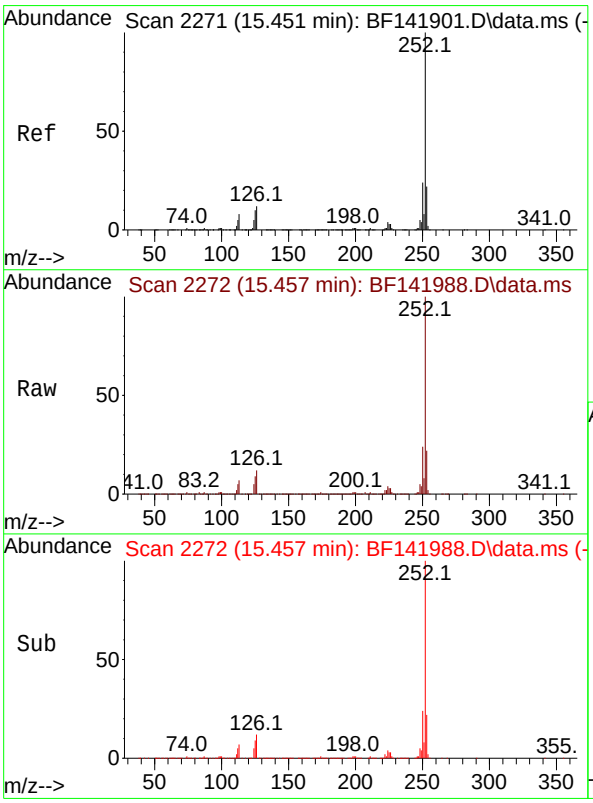
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	8.2	7.2	10.8



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

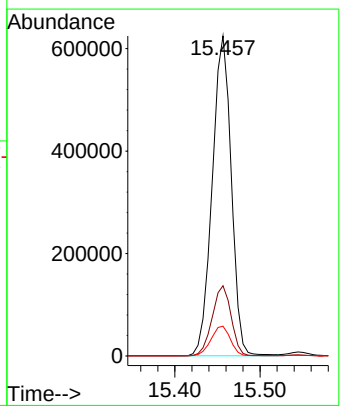
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

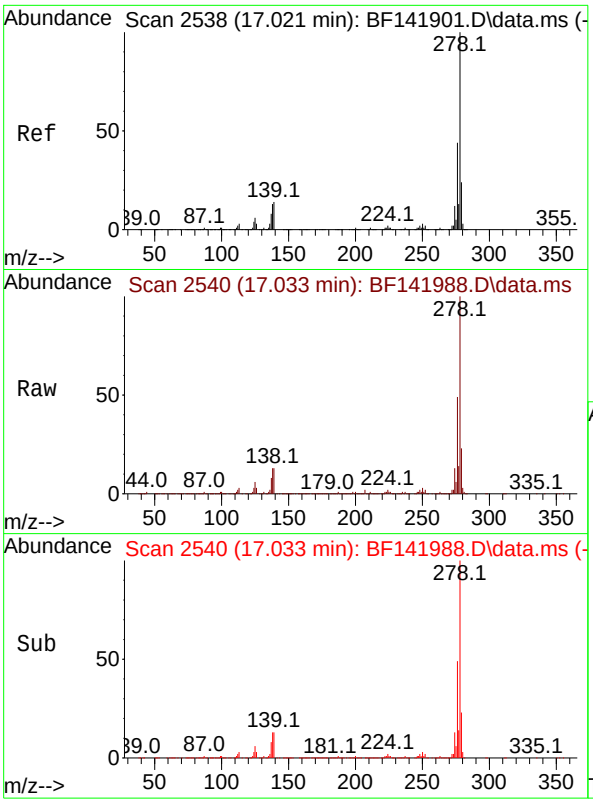


#90
Benzo(a)pyrene
Concen: 48.179 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:252 Resp: 970694

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	9.3	7.8	11.8

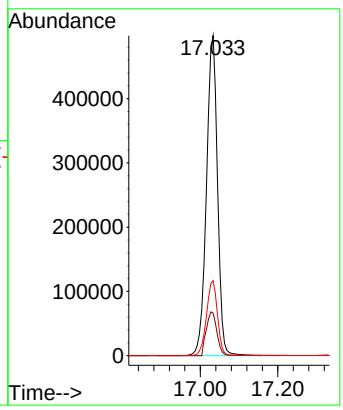




#91
Dibenzo(a,h)anthracene
Concen: 49.287 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:278 Resp: 98831

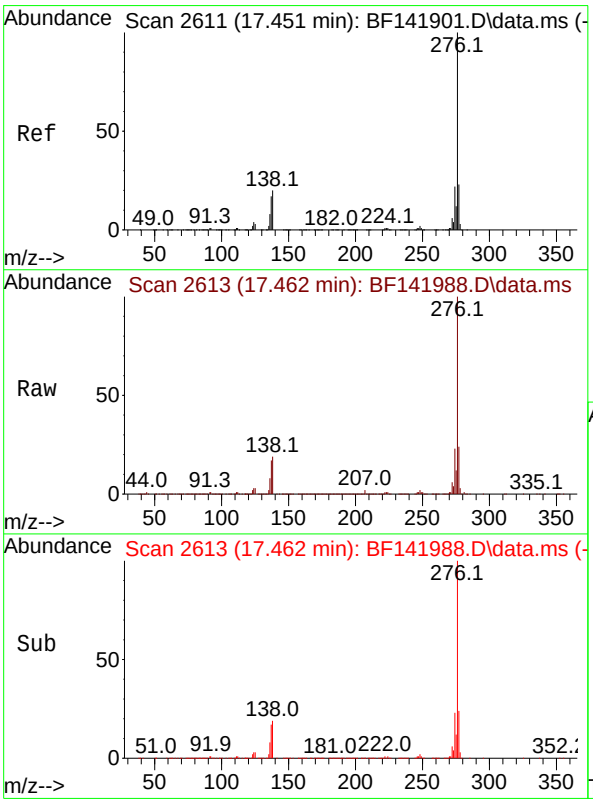
Ion	Ratio	Lower	Upper
278	100		
139	13.3	11.4	17.2
279	23.5	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
PB167168BS

Manual Integrations
APPROVED

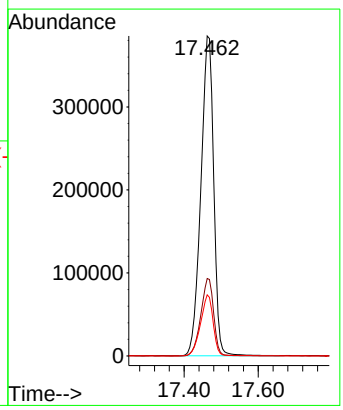
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025



#92
Benzo(g,h,i)perylene
Concen: 46.622 ng
RT: 17.462 min Scan# 2613
Delta R.T. 0.012 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:276 Resp: 923868

Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.7	28.1
138	19.1	15.8	23.8



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

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/13/25
Client Sample ID:	JC-03-03132025MS	SDG No.:	Q1569
Lab Sample ID:	Q1568-04MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141992.D	1	03/17/25 10:15	03/18/25 13:01	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	320		12.8	40.0	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	430		5.30	40.0	50.0	ug/L
95-48-7	2-Methylphenol	420		11.2	40.0	50.0	ug/L
65794-96-9	3+4-Methylphenols	410		11.0	80.0	100	ug/L
67-72-1	Hexachloroethane	430		6.50	40.0	50.0	ug/L
98-95-3	Nitrobenzene	440		7.60	40.0	50.0	ug/L
87-68-3	Hexachlorobutadiene	460		5.40	40.0	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	450		5.10	40.0	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	460		6.20	40.0	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	460		12.2	40.0	50.0	ug/L
118-74-1	Hexachlorobenzene	510		5.20	40.0	50.0	ug/L
87-86-5	Pentachlorophenol	950	E	15.8	80.0	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	124		19 - 119		83%	SPK: 150
13127-88-3	Phenol-d6	110		10 - 130		73%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.6		44 - 120		97%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.8		44 - 119		97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	143		43 - 140		95%	SPK: 150
1718-51-0	Terphenyl-d14	85.4		50 - 134		85%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	153000	6.881				
1146-65-2	Naphthalene-d8	588000	8.163				
15067-26-2	Acenaphthene-d10	327000	9.916				
1517-22-2	Phenanthrene-d10	504000	11.404				
1719-03-5	Chrysene-d12	334000	14.039				
1520-96-3	Perylene-d12	409000	15.515				

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/13/25
Client Sample ID:	JC-03-03132025MS	SDG No.:	Q1569
Lab Sample ID:	Q1568-04MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141992.D	1	03/17/25 10:15	03/18/25 13:01	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141992.D
Acq On : 18 Mar 2025 13:01
Operator : RC/JU
Sample : Q1568-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 13:34:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	152727	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	588011	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	327264	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	504077	20.000	ng		0.00
76) Chrysene-d12	14.039	240	334257	20.000	ng		0.00
86) Perylene-d12	15.515	264	409135	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	1136926	124.240	ng		0.02
7) Phenol-d6	6.510	99	1280431	109.896	ng		0.00
23) Nitrobenzene-d5	7.445	82	1008886	96.556	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	594720	143.245	ng		0.00
45) 2-Fluorobiphenyl	9.234	172	2082406	96.770	ng		0.00
79) Terphenyl-d14	12.986	244	1930998	85.410	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.846	88	156699	40.868	ng	#	83
3) Pyridine	3.563	79	300215	31.920	ng		97
4) n-Nitrosodimethylamine	3.487	42	173633	38.728	ng		97
6) Aniline	6.545	93	142434	12.392	ng		98
8) 2-Chlorophenol	6.669	128	439960	43.349	ng		98
9) Benzaldehyde	6.434	77	66556	10.214	ng		100
10) Phenol	6.522	94	427945	34.913	ng		99
11) bis(2-Chloroethyl)ether	6.616	93	400564	43.521	ng		99
12) 1,3-Dichlorobenzene	6.822	146	464963	42.435	ng		99
13) 1,4-Dichlorobenzene	6.898	146	475531	42.894	ng		99
14) 1,2-Dichlorobenzene	7.051	146	452650	43.348	ng		99
15) Benzyl Alcohol	7.022	79	387785	41.169	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	444126	39.969	ng		98
17) 2-Methylphenol	7.128	107	339393	42.058	ng		99
18) Hexachloroethane	7.392	117	176772	42.521	ng		97
19) n-Nitroso-di-n-propyla...	7.292	70	301483	40.270	ng		99
20) 3+4-Methylphenols	7.281	107	423212	40.945	ng	#	85
22) Acetophenone	7.287	105	663243	47.100	ng		97
24) Nitrobenzene	7.463	77	461040	44.385	ng		98
25) Isophorone	7.698	82	832994	45.100	ng		99
26) 2-Nitrophenol	7.775	139	238666	46.815	ng		99
27) 2,4-Dimethylphenol	7.810	122	390542	55.634	ng		99
28) bis(2-Chloroethoxy)met...	7.904	93	511976	44.195	ng		99
29) 2,4-Dichlorophenol	8.016	162	381941	43.834	ng		99
30) 1,2,4-Trichlorobenzene	8.098	180	420277	43.768	ng		98
31) Naphthalene	8.181	128	1309559	43.355	ng		100
32) Benzoic acid	7.922	122	295135m	47.829	ng		
33) 4-Chloroaniline	8.228	127	59797	5.608	ng		98
34) Hexachlorobutadiene	8.298	225	285735	45.629	ng		99
35) Caprolactam	8.592	113	99351m	37.400	ng		
36) 4-Chloro-3-methylphenol	8.710	107	411335	42.320	ng		98
37) 2-Methylnaphthalene	8.875	142	855032	42.350	ng		99
38) 1-Methylnaphthalene	8.975	142	819498	42.063	ng		99
40) 1,2,4,5-Tetrachloroben...	9.039	216	499037	50.085	ng		98
41) Hexachlorocyclopentadiene	9.028	237	599566	153.756	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	291587	44.778	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141992.D
Acq On : 18 Mar 2025 13:01
Operator : RC/JU
Sample : Q1568-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 13:34:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	301802	45.761	ng		99
46) 1,1'-Biphenyl	9.339	154	1223225	49.193	ng		100
47) 2-Chloronaphthalene	9.363	162	835177	45.062	ng		98
48) 2-Nitroaniline	9.457	65	231642	43.166	ng		97
49) Acenaphthylene	9.781	152	1304148	47.417	ng		99
50) Dimethylphthalate	9.634	163	1003942	43.807	ng		100
51) 2,6-Dinitrotoluene	9.698	165	218594	45.811	ng		91
52) Acenaphthene	9.951	154	975716	50.481	ng		98
53) 3-Nitroaniline	9.863	138	59186	12.228	ng		96
54) 2,4-Dinitrophenol	9.975	184	246349	89.973	ng	#	46
55) Dibenzofuran	10.122	168	1177594	42.639	ng		99
56) 4-Nitrophenol	10.022	139	287055	78.642	ng		98
57) 2,4-Dinitrotoluene	10.104	165	285453	45.803	ng		95
58) Fluorene	10.463	166	927784	43.562	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	262341	43.713	ng		96
60) Diethylphthalate	10.333	149	965154	42.236	ng		100
61) 4-Chlorophenyl-phenyle...	10.457	204	490233	44.150	ng		96
62) 4-Nitroaniline	10.481	138	170182	36.115	ng		97
63) Azobenzene	10.616	77	856245	40.302	ng		97
65) 4,6-Dinitro-2-methylph...	10.510	198	149599	49.783	ng		96
66) n-Nitrosodiphenylamine	10.575	169	784826	48.113	ng		100
67) 4-Bromophenyl-phenylether	10.945	248	310869	49.106	ng		98
68) Hexachlorobenzene	11.010	284	353910	50.972	ng		97
69) Atrazine	11.098	200	287531	57.499	ng		99
70) Pentachlorophenol	11.204	266	405413	94.768	ng		99
71) Phenanthrene	11.428	178	1275909	46.862	ng		99
72) Anthracene	11.480	178	1305550	47.795	ng		100
73) Carbazole	11.633	167	981674	41.672	ng		100
74) Di-n-butylphthalate	11.963	149	1327416	42.467	ng		99
75) Fluoranthene	12.616	202	1149890	39.814	ng		99
77) Benzidine	12.733	184	64248	13.777	ng		98
78) Pyrene	12.845	202	1139056	39.395	ng		99
80) Butylbenzylphthalate	13.457	149	456006	40.294	ng		98
81) Benzo(a)anthracene	14.027	228	1046091	47.692	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	143508	22.640	ng		99
83) Chrysene	14.069	228	902529	45.393	ng		100
84) Bis(2-ethylhexyl)phtha...	14.016	149	660288	42.317	ng		99
85) Di-n-octyl phthalate	14.633	149	1189713	54.798	ng		98
87) Indeno(1,2,3-cd)pyrene	17.015	276	1355219	51.205	ng		98
88) Benzo(b)fluoranthene	15.080	252	1146744	40.896	ng		99
89) Benzo(k)fluoranthene	15.116	252	1038112	43.262	ng		99
90) Benzo(a)pyrene	15.457	252	1064045	48.497	ng		99
91) Dibenzo(a,h)anthracene	17.033	278	1112019	50.924	ng		99
92) Benzo(g,h,i)perylene	17.468	276	1004916	46.569	ng		98

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

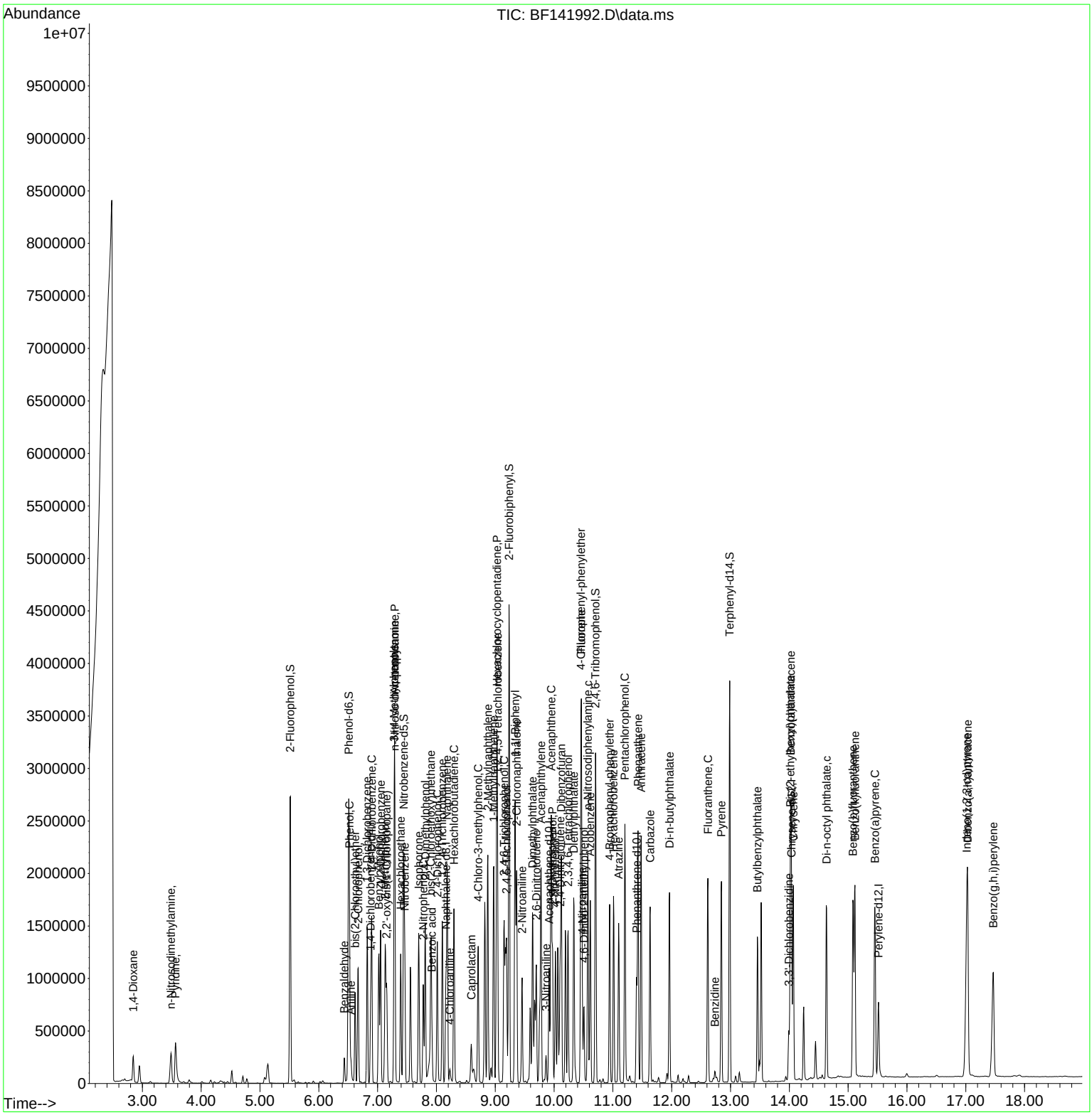
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141992.D
Acq On : 18 Mar 2025 13:01
Operator : RC/JU
Sample : Q1568-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

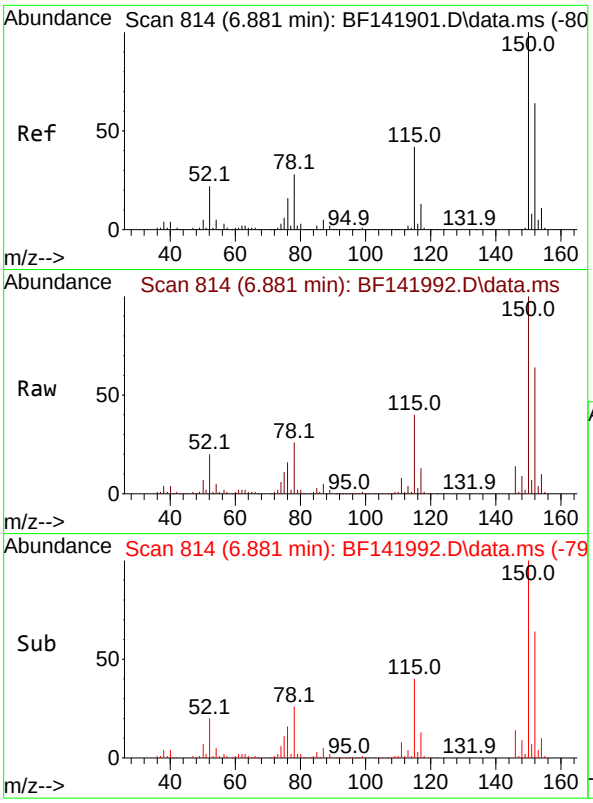
Quant Time: Mar 18 13:34:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

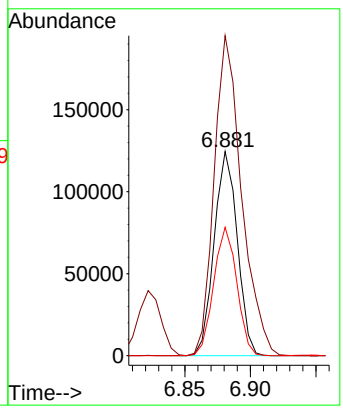




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:152 Resp: 15272

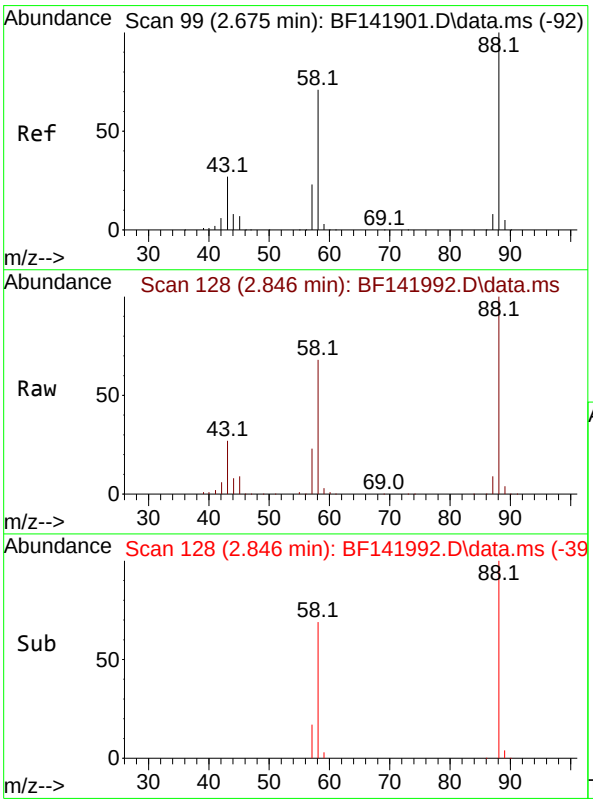
Ion	Ratio	Lower	Upper
152	100		
150	156.7	127.4	191.2
115	62.9	51.9	77.9



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

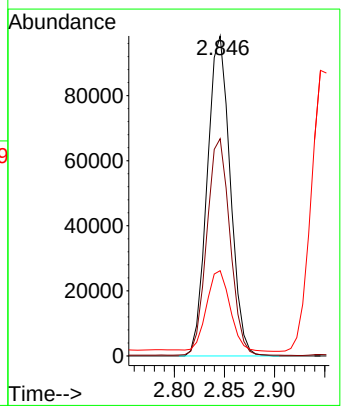
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

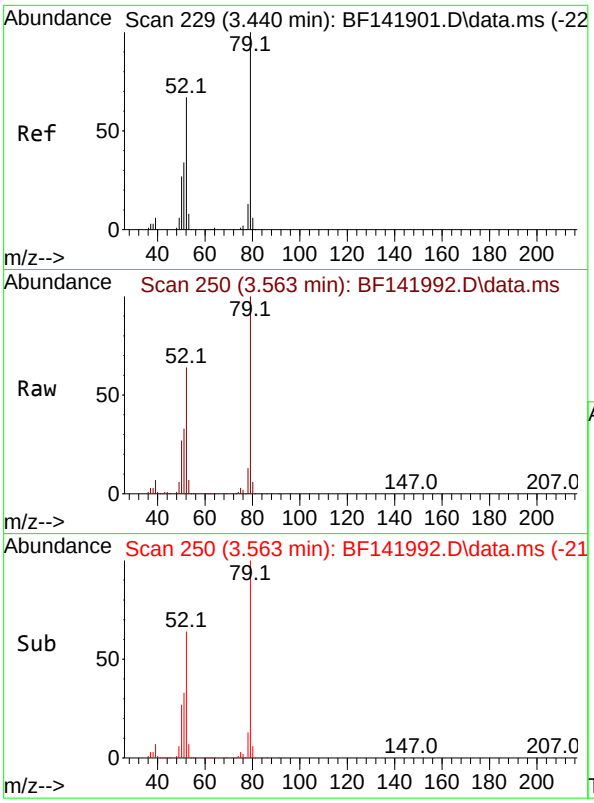


#2
1,4-Dioxane
Concen: 40.868 ng
RT: 2.846 min Scan# 128
Delta R.T. 0.171 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 88 Resp: 156699

Ion	Ratio	Lower	Upper
88	100		
58	68.3	57.4	86.2
43	0.0	21.5	32.3#

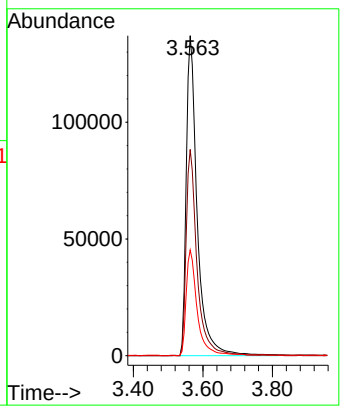




#3
Pyridine
Concen: 31.920 ng
RT: 3.563 min Scan# 2
Delta R.T. 0.124 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 79 Resp: 30021

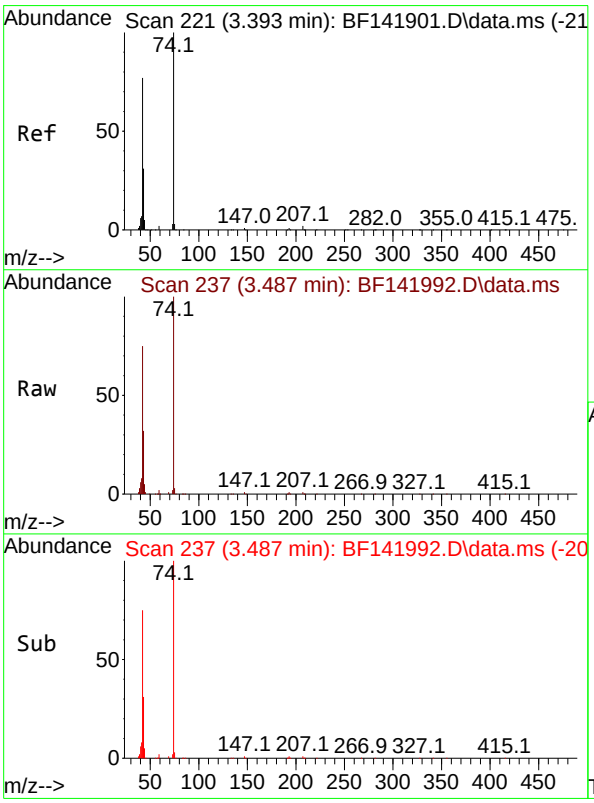
Ion	Ratio	Lower	Upper
79	100		
52	64.5	53.3	79.9
51	33.1	27.6	41.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

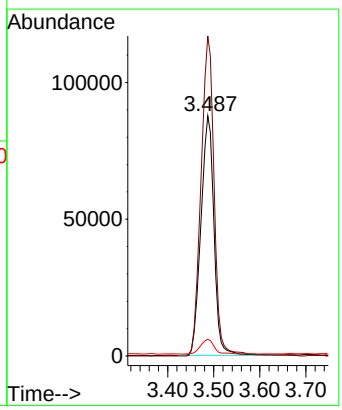
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

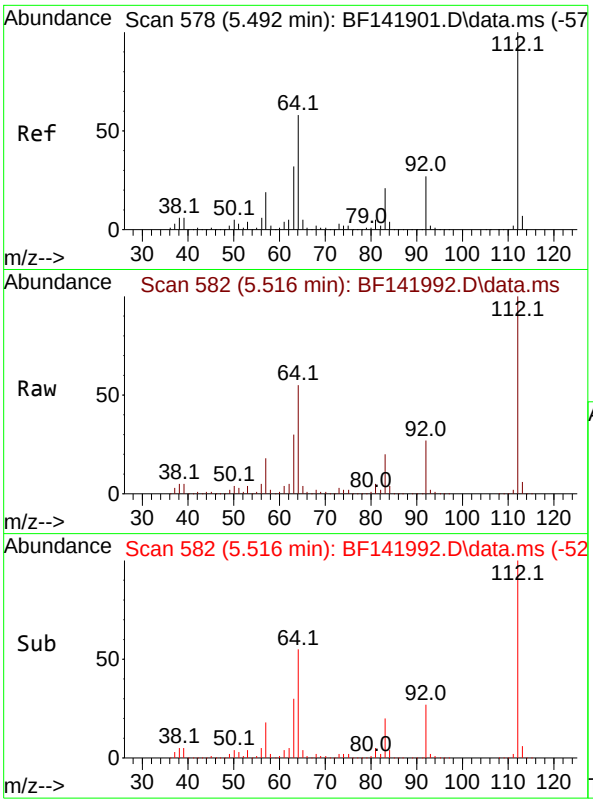


#4
n-Nitrosodimethylamine
Concen: 38.728 ng
RT: 3.487 min Scan# 237
Delta R.T. 0.094 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 42 Resp: 173633

Ion	Ratio	Lower	Upper
42	100		
74	133.2	103.4	155.0
44	6.9	5.0	7.4

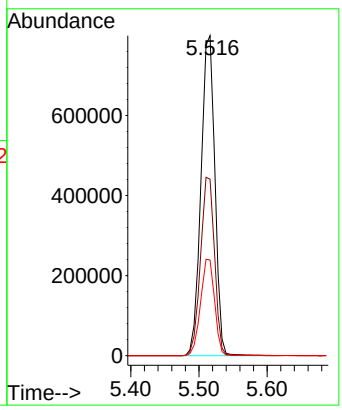




#5
2-Fluorophenol
Concen: 124.240 ng
RT: 5.516 min Scan# 5
Delta R.T. 0.024 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:112 Resp: 113692

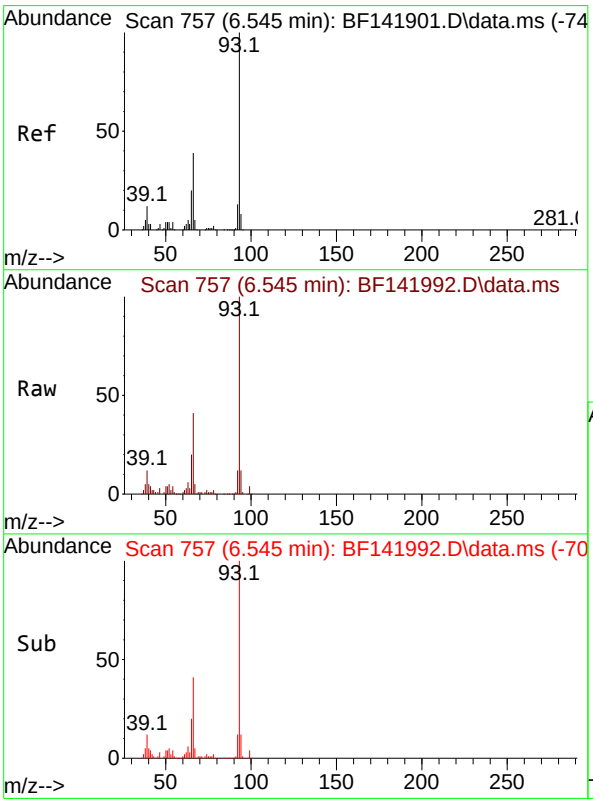
Ion	Ratio	Lower	Upper
112	100		
64	55.2	46.5	69.7
63	29.9	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

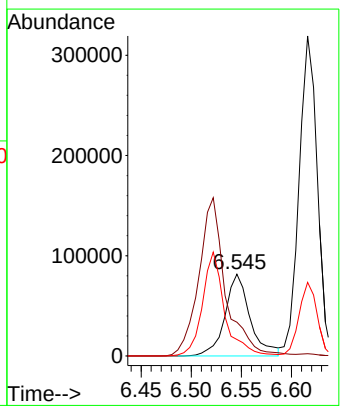
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

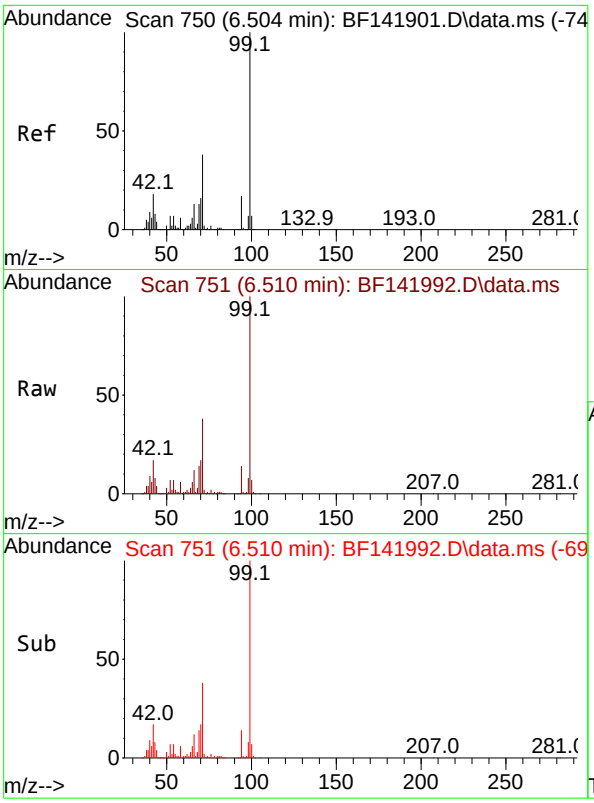


#6
Aniline
Concen: 12.392 ng
RT: 6.545 min Scan# 757
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 93 Resp: 142434

Ion	Ratio	Lower	Upper
93	100		
66	41.4	31.9	47.9
65	20.1	15.8	23.6

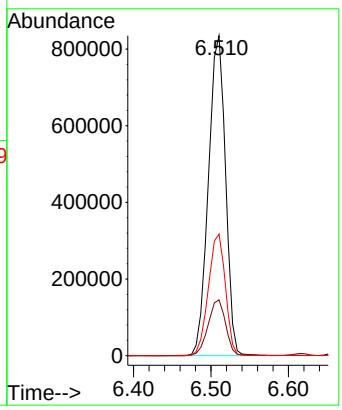




#7
Phenol-d6
Concen: 109.896 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 99 Resp: 128043

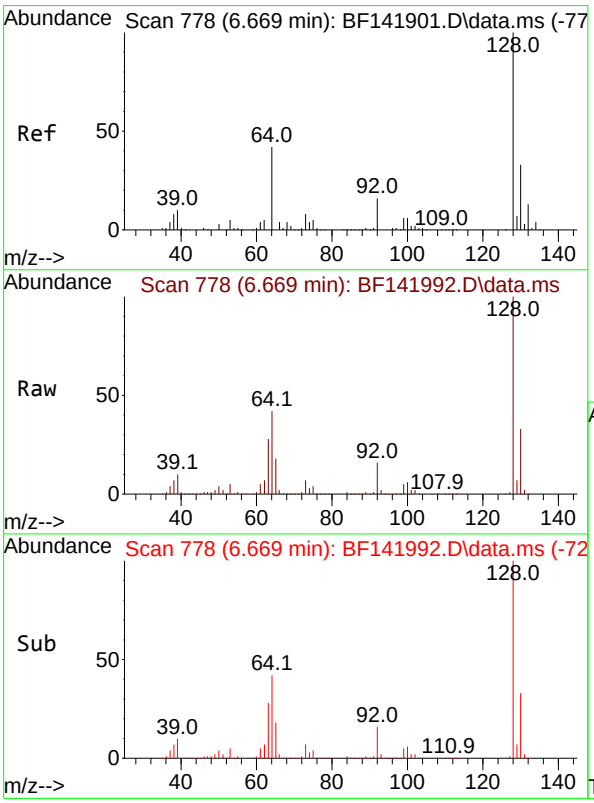
Ion	Ratio	Lower	Upper
99	100		
42	17.5	14.6	21.8
71	38.1	30.8	46.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

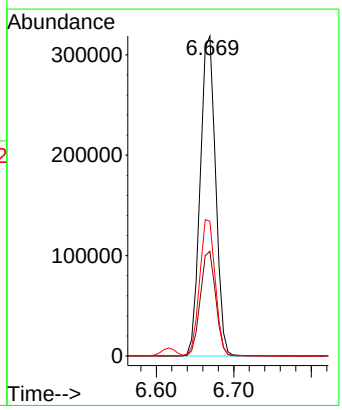
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

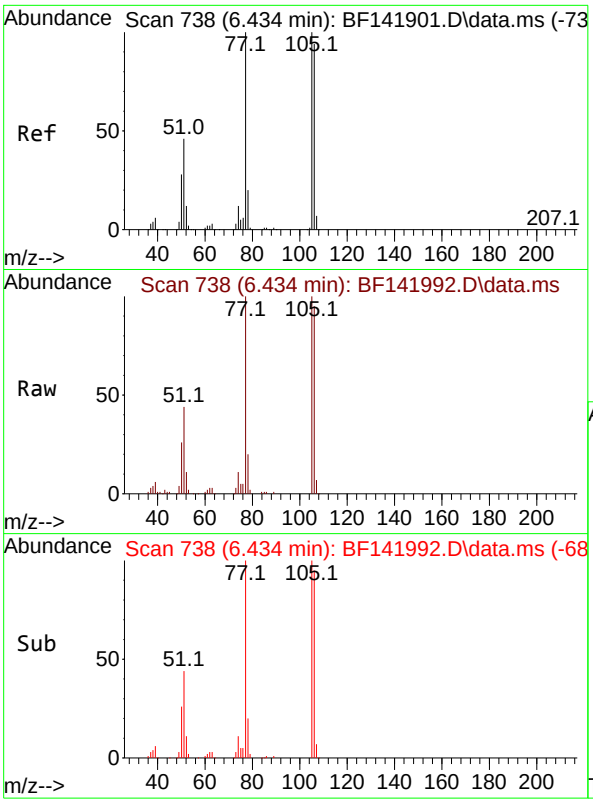


#8
2-Chlorophenol
Concen: 43.349 ng
RT: 6.669 min Scan# 778
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:128 Resp: 439960

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.8	52.8
64	42.1	24.4	64.4

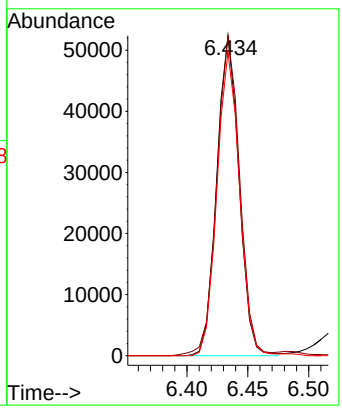




#9
Benzaldehyde
Concen: 10.214 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 77 Resp: 6655

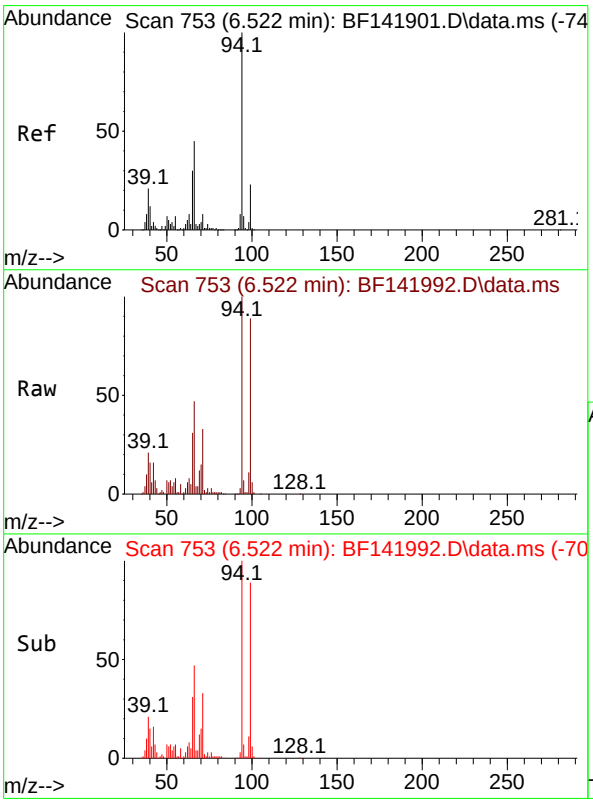
Ion	Ratio	Lower	Upper
77	100		
105	100.2	80.0	120.0
106	95.1	74.5	114.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

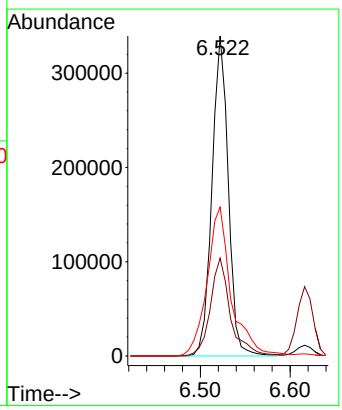
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

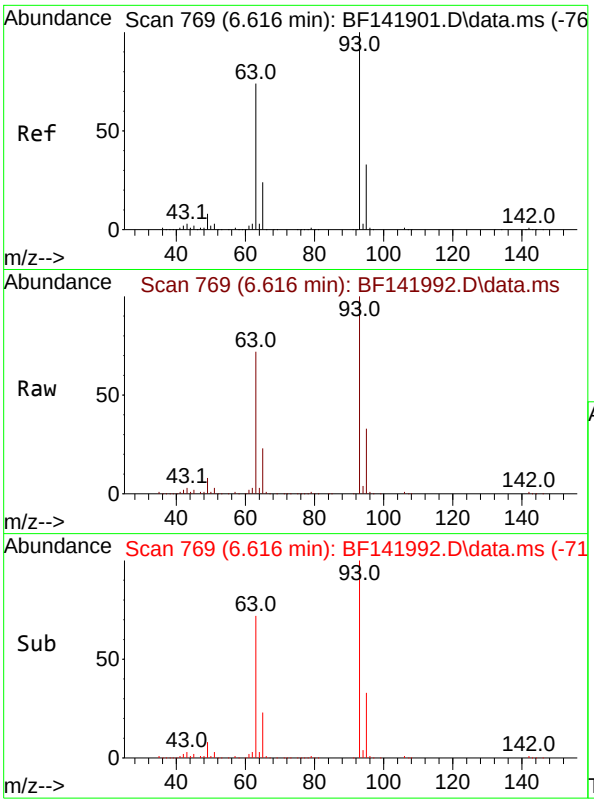


#10
Phenol
Concen: 34.913 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 94 Resp: 427945

Ion	Ratio	Lower	Upper
94	100		
65	30.5	10.5	50.5
66	46.5	25.8	65.8

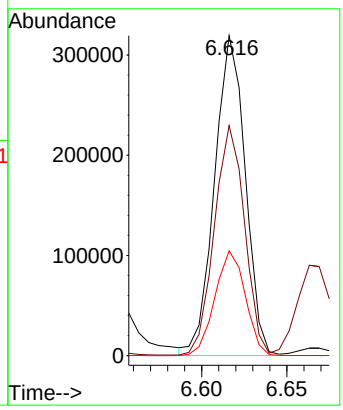




#11
bis(2-Chloroethyl)ether
Concen: 43.521 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 93 Resp: 40056

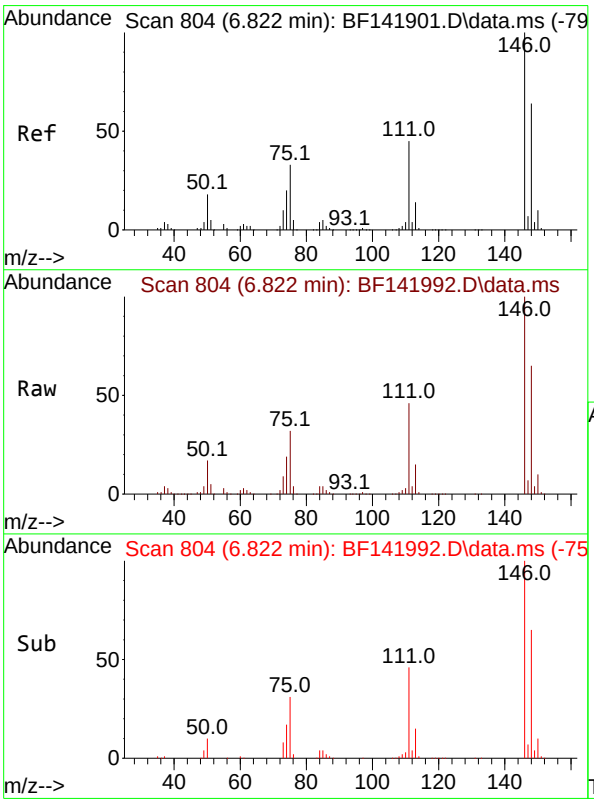
Ion	Ratio	Lower	Upper
93	100		
63	71.9	53.0	93.0
95	32.7	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

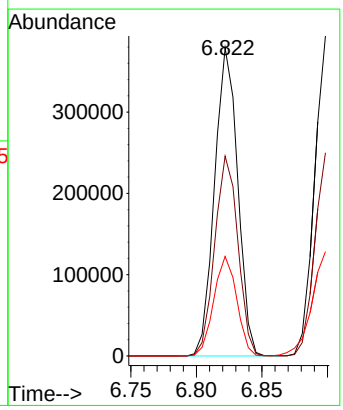
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

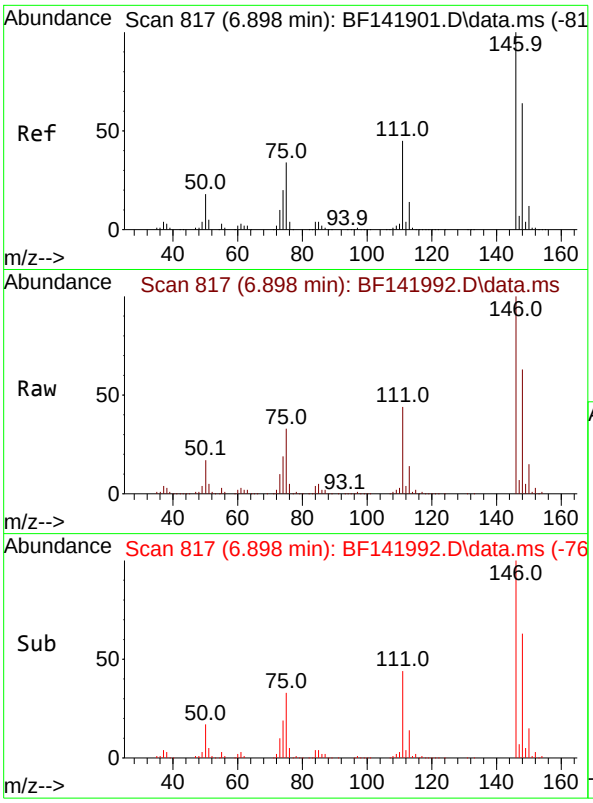


#12
1,3-Dichlorobenzene
Concen: 42.435 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:146 Resp: 464963

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.3	76.9
75	32.3	26.6	40.0

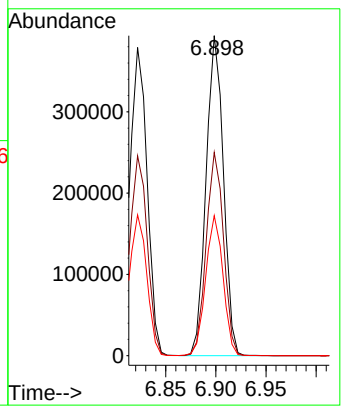




#13
1,4-Dichlorobenzene
Concen: 42.894 ng
RT: 6.898 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:146 Resp: 47553

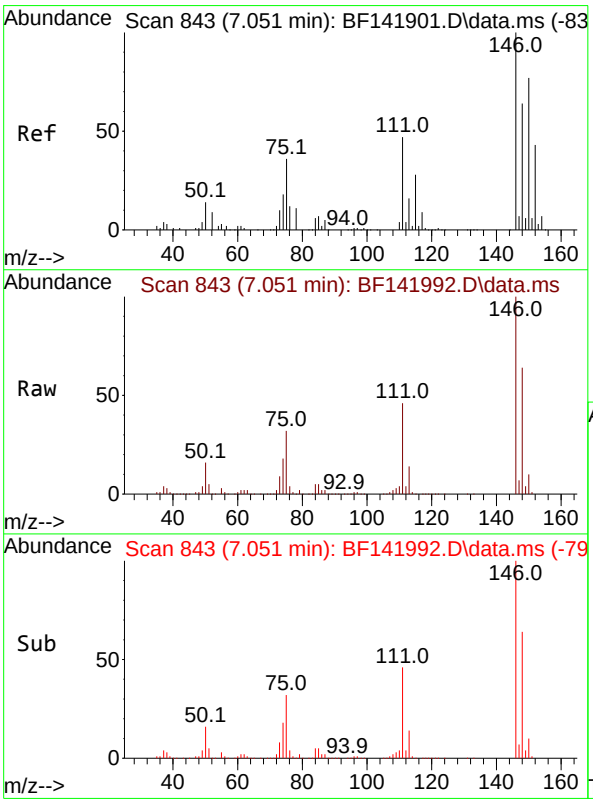
Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.0	76.6
111	43.7	35.7	53.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

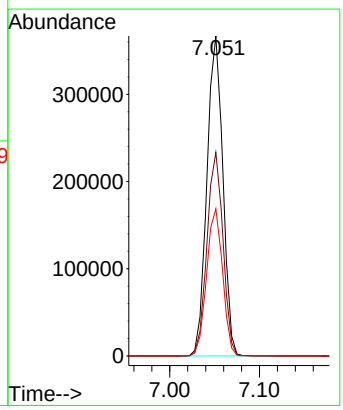
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

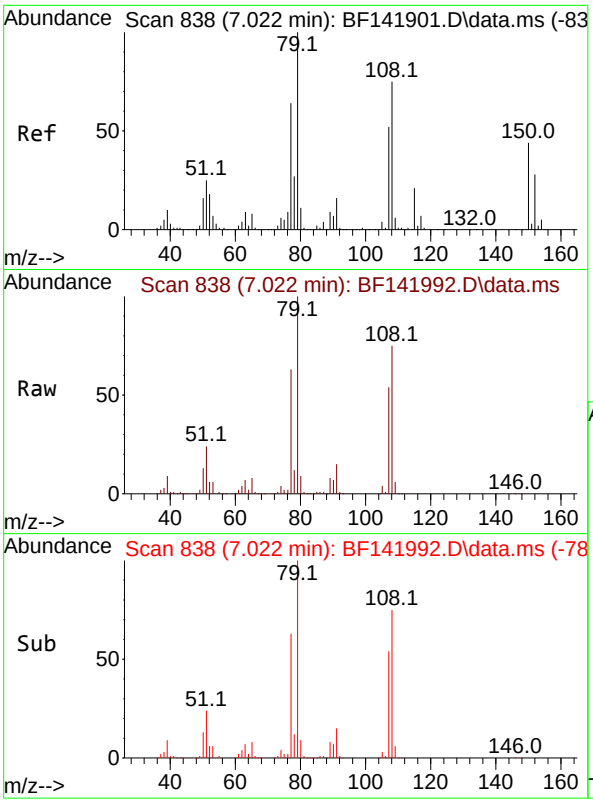


#14
1,2-Dichlorobenzene
Concen: 43.348 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:146 Resp: 452650

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.8	76.2
111	46.0	38.0	57.0





#15
Benzyl Alcohol
Concen: 41.169 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

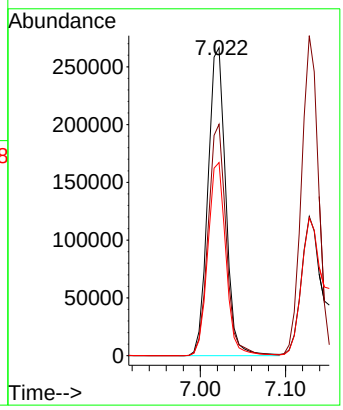
Tgt Ion: 79 Resp: 38778

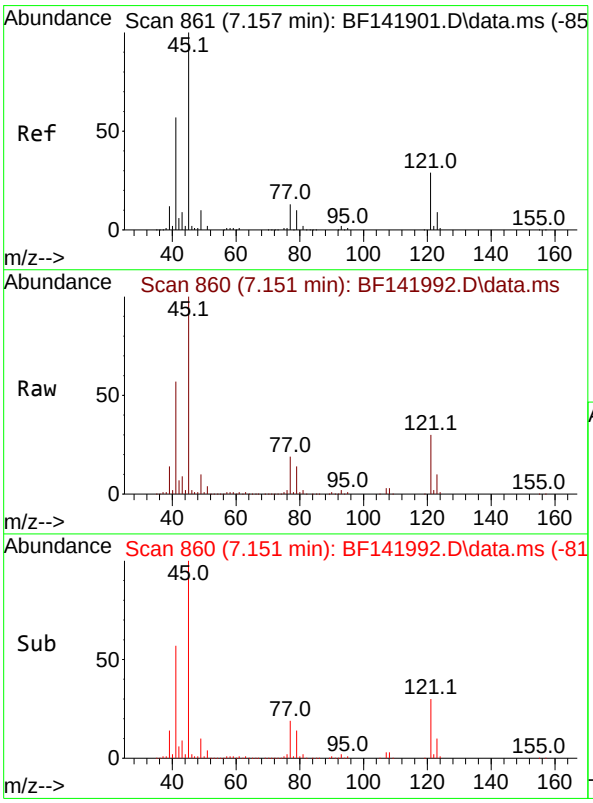
Ion	Ratio	Lower	Upper
79	100		
108	75.1	59.7	89.5
77	62.7	51.0	76.6

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

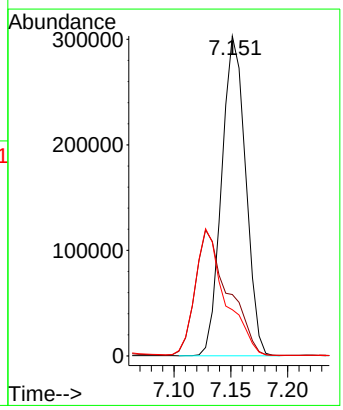


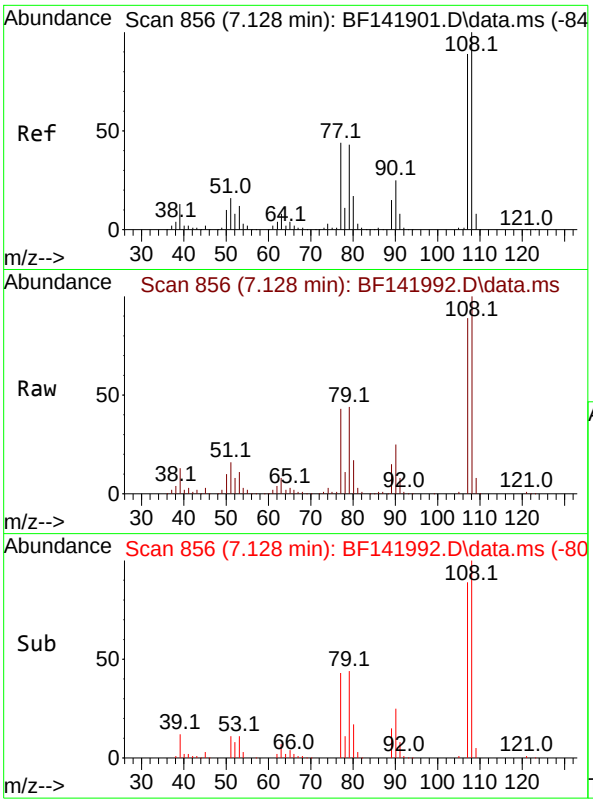


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.969 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 45 Resp: 444126

Ion	Ratio	Lower	Upper
45	100		
77	19.2	0.0	37.8
79	14.5	0.0	34.2

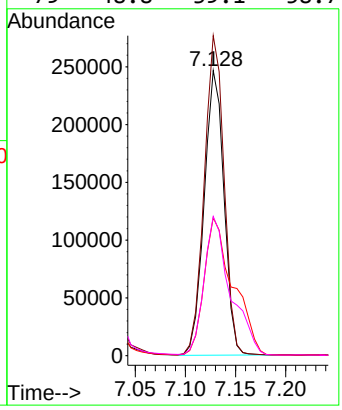




#17
2-Methylphenol
Concen: 42.058 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:107 Resp: 33939

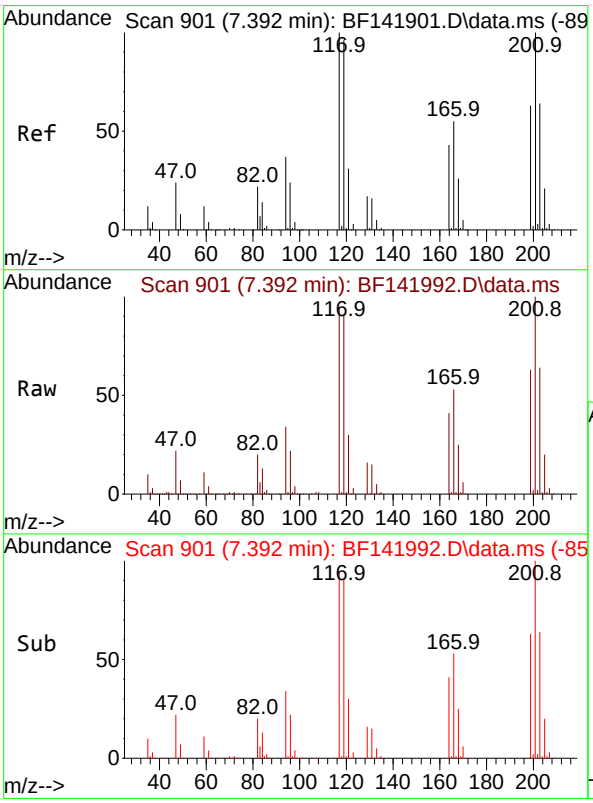
Ion	Ratio	Lower	Upper
107	100		
108	112.2	90.2	135.2
77	48.3	39.6	59.4
79	48.8	39.1	58.7



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

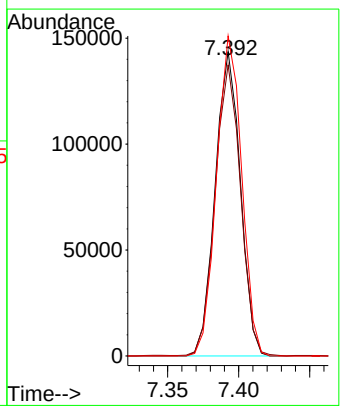
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

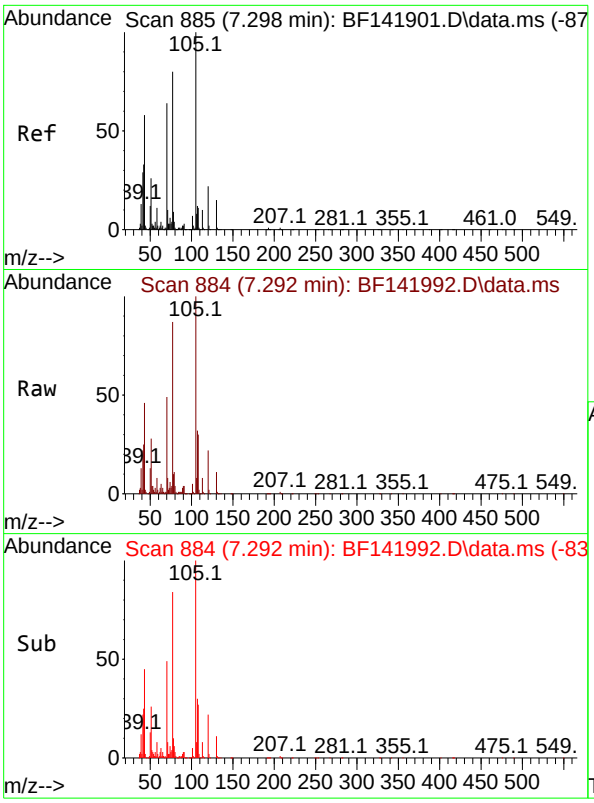


#18
Hexachloroethane
Concen: 42.521 ng
RT: 7.392 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:117 Resp: 176772

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.9	115.3
201	105.2	79.9	119.9

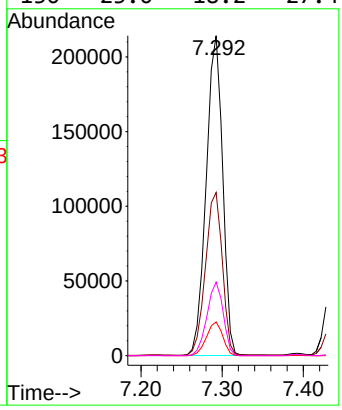




#19
n-Nitroso-di-n-propylamine
Concen: 40.270 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 70 Resp: 30148

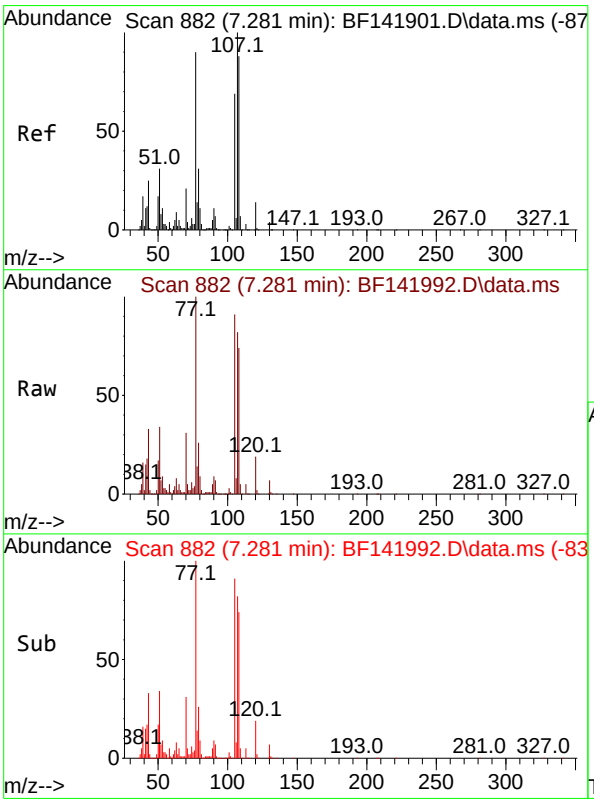
Ion	Ratio	Lower	Upper
70	100		
42	51.0	41.4	62.0
101	10.6	8.2	12.2
130	23.0	18.2	27.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

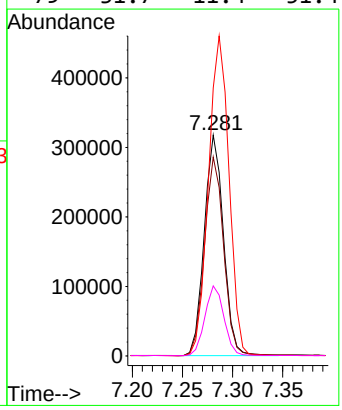
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

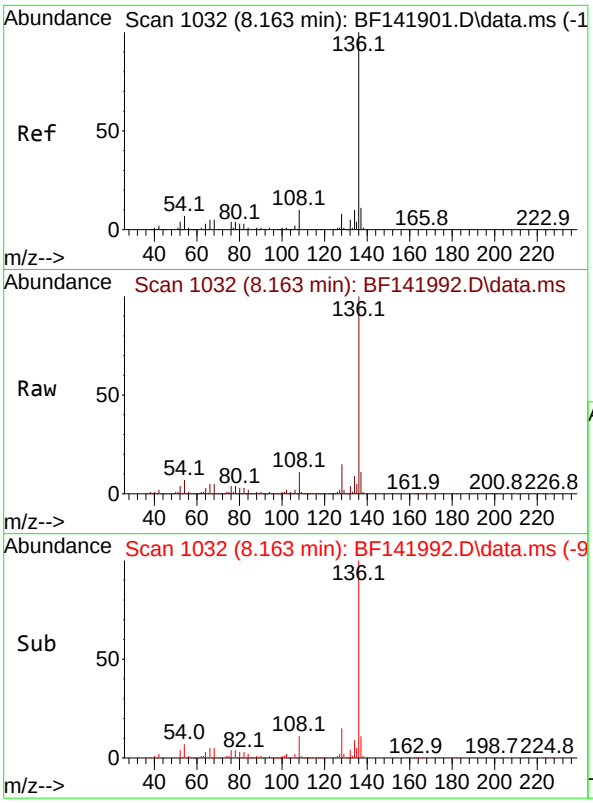


#20
3+4-Methylphenols
Concen: 40.945 ng
RT: 7.281 min Scan# 882
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:107 Resp: 423212

Ion	Ratio	Lower	Upper
107	100		
108	90.0	68.4	108.4
77	121.4	69.7	109.7#
79	31.7	11.4	51.4

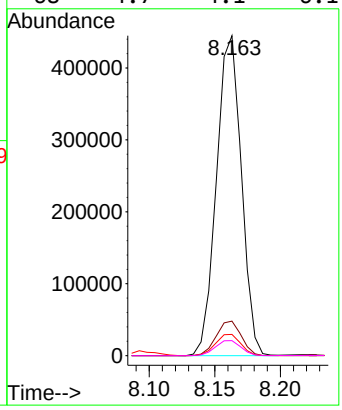




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:136 Resp: 58801

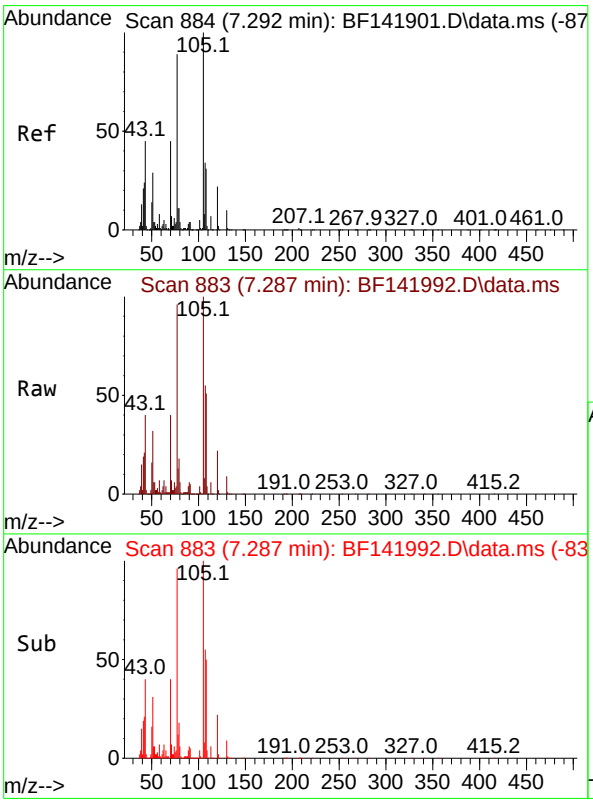
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	6.6	5.8	8.8
68	4.7	4.1	6.1



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

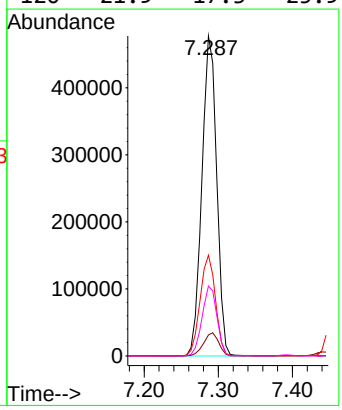
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

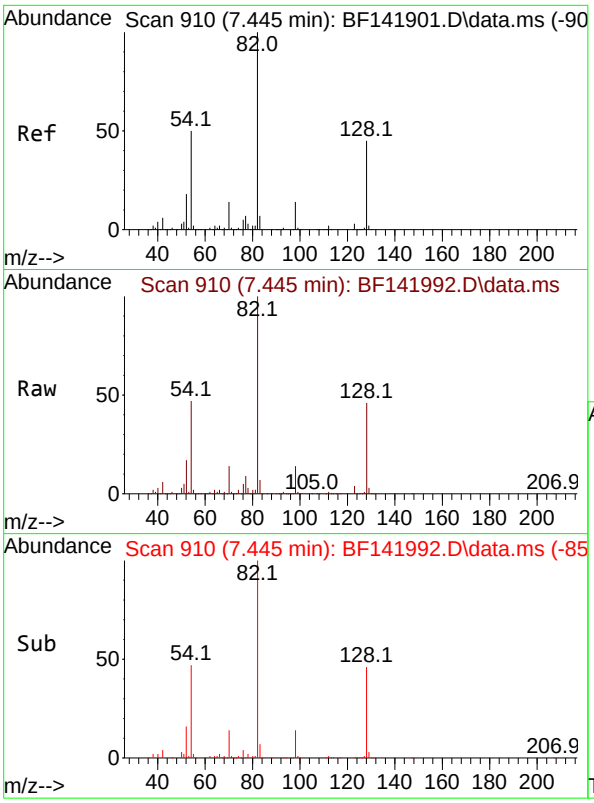


#22
Acetophenone
Concen: 47.100 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:105 Resp: 663243

Ion	Ratio	Lower	Upper
105	100		
71	6.5	5.8	8.8
51	31.5	23.4	35.0
120	21.9	17.3	25.9

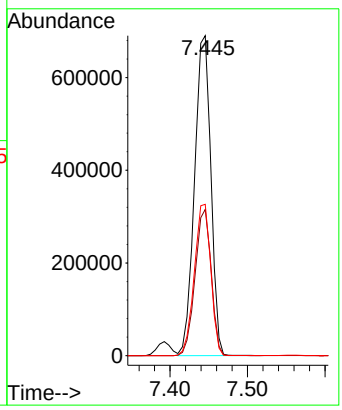




#23
Nitrobenzene-d5
Concen: 96.556 ng
RT: 7.445 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 82 Resp: 100888

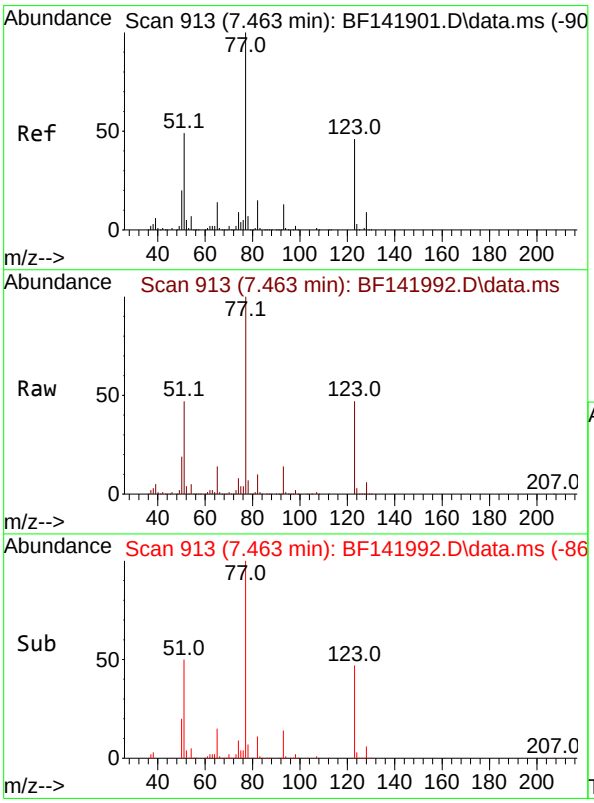
Ion	Ratio	Lower	Upper
82	100		
128	45.7	36.0	54.0
54	47.3	39.6	59.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

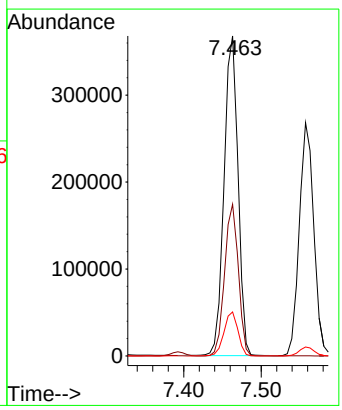
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

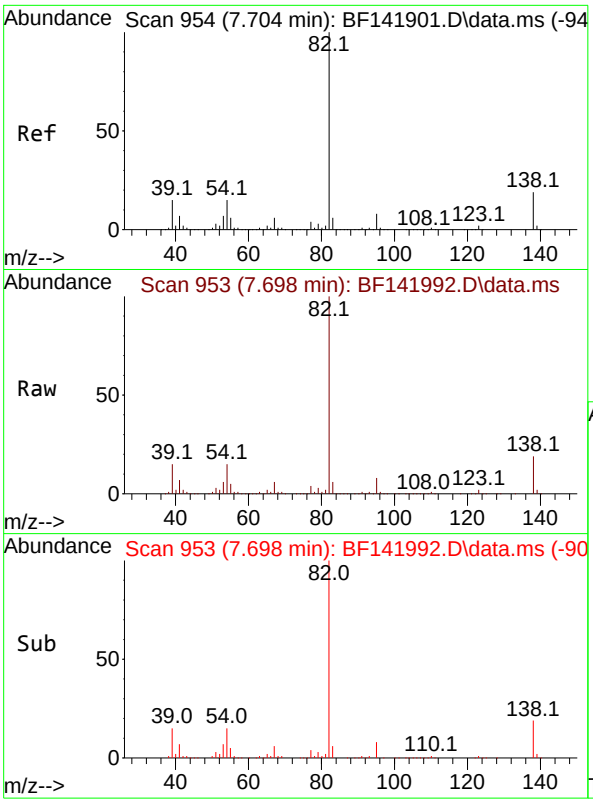


#24
Nitrobenzene
Concen: 44.385 ng
RT: 7.463 min Scan# 913
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 77 Resp: 461040

Ion	Ratio	Lower	Upper
77	100		
123	47.4	37.0	55.4
65	13.7	11.3	16.9

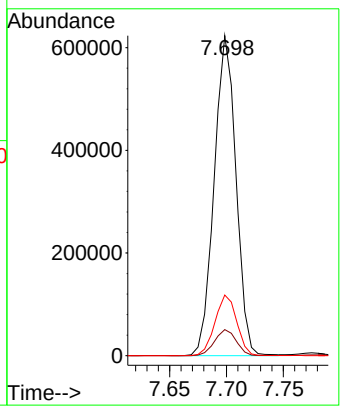




#25
Isophorone
Concen: 45.100 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 82 Resp: 83299

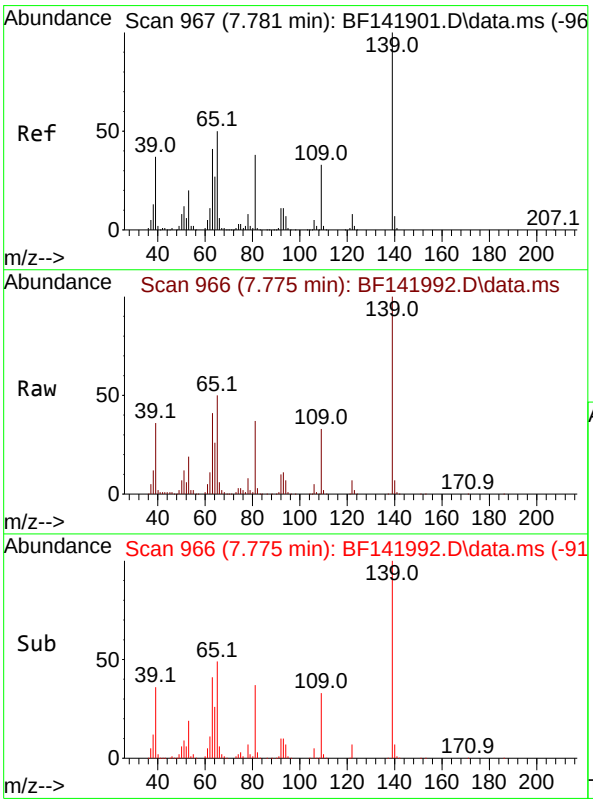
Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.4	9.6
138	18.9	14.9	22.3



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

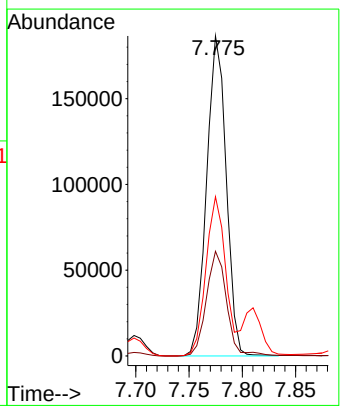
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

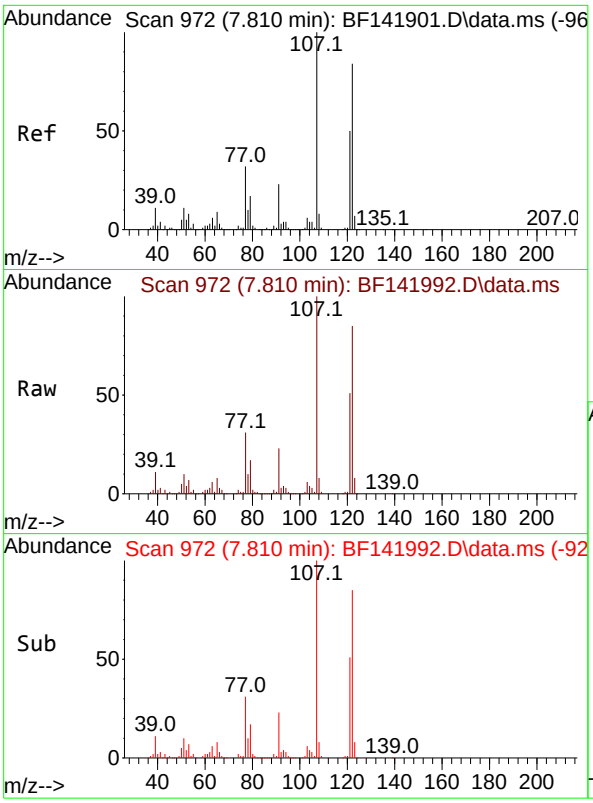


#26
2-Nitrophenol
Concen: 46.815 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:139 Resp: 238666

Ion	Ratio	Lower	Upper
139	100		
109	32.7	26.5	39.7
65	49.8	40.3	60.5

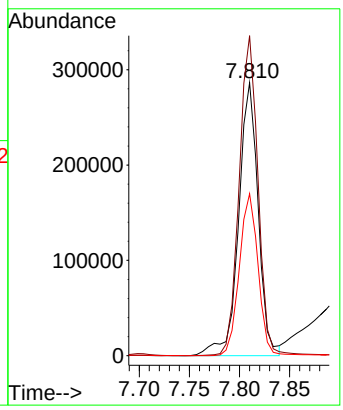




#27
2,4-Dimethylphenol
Concen: 55.634 ng
RT: 7.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:122 Resp: 39054

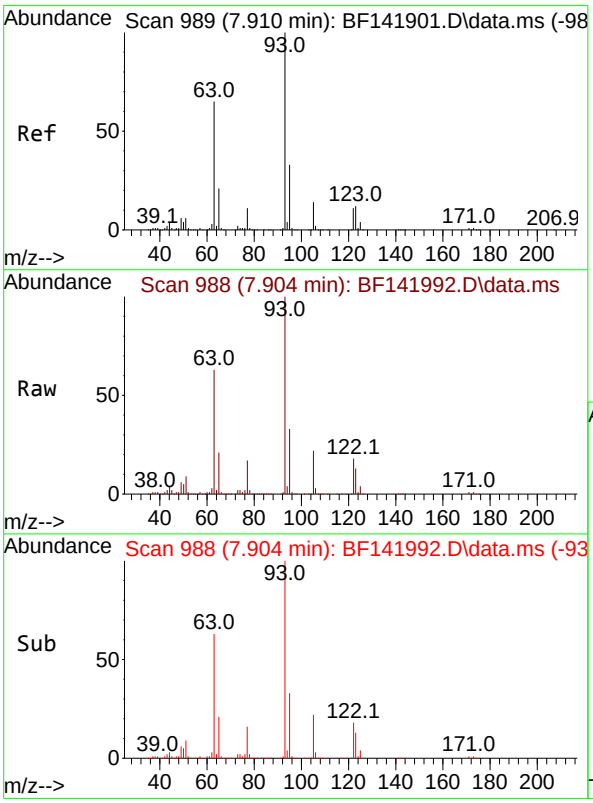
Ion	Ratio	Lower	Upper
122	100		
107	117.2	94.8	142.2
121	59.3	47.8	71.6



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

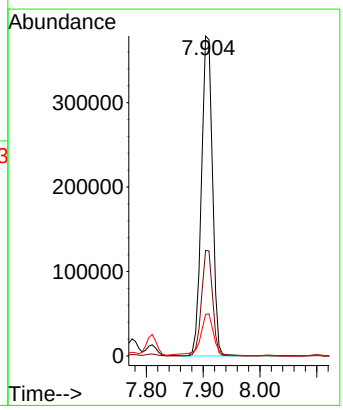
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

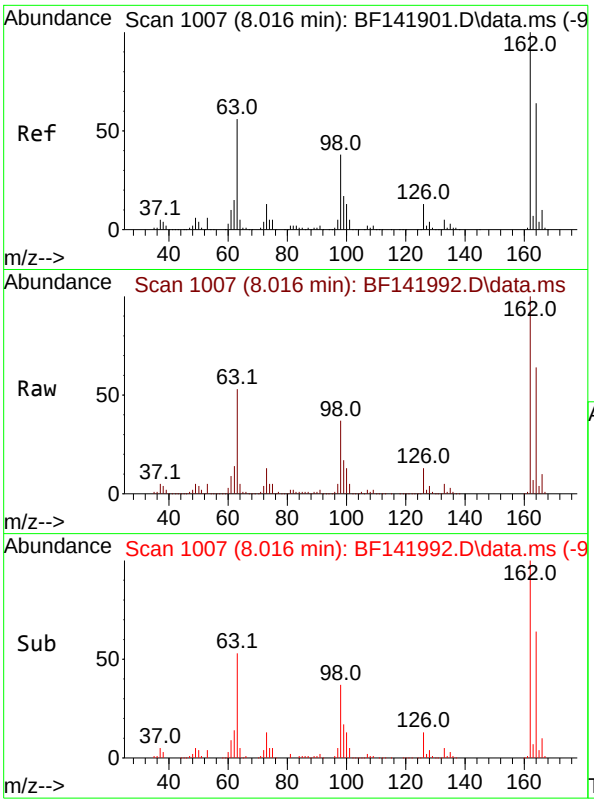


#28
bis(2-Chloroethoxy)methane
Concen: 44.195 ng
RT: 7.904 min Scan# 988
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 93 Resp: 511976

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.6	40.0
123	13.0	10.2	15.4

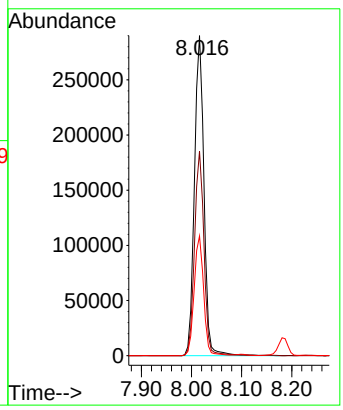




#29
2,4-Dichlorophenol
Concen: 43.834 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:162 Resp: 38194

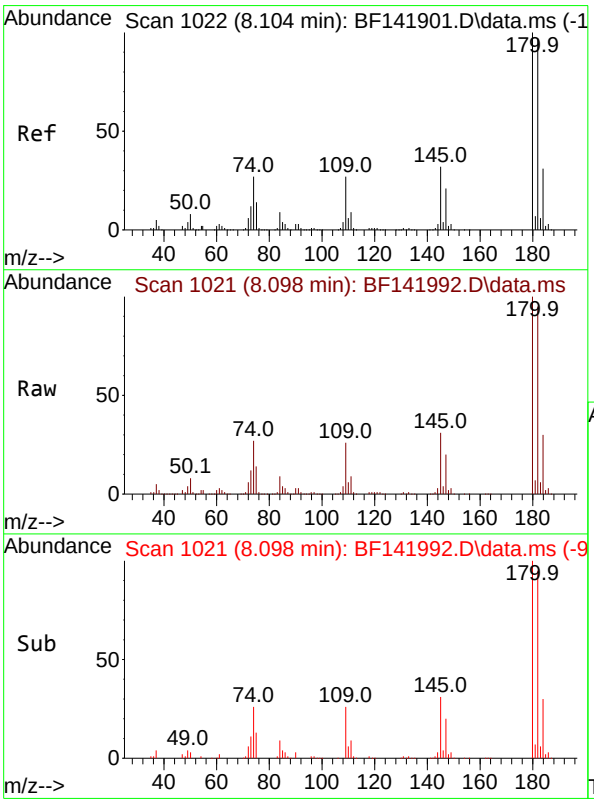
Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.8	83.8
98	37.4	18.1	58.1



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

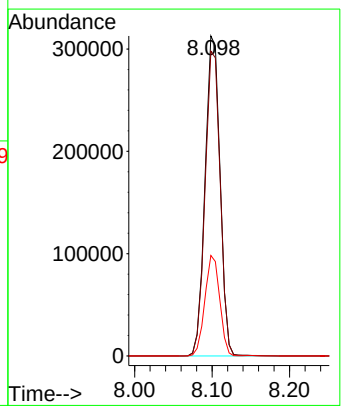
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

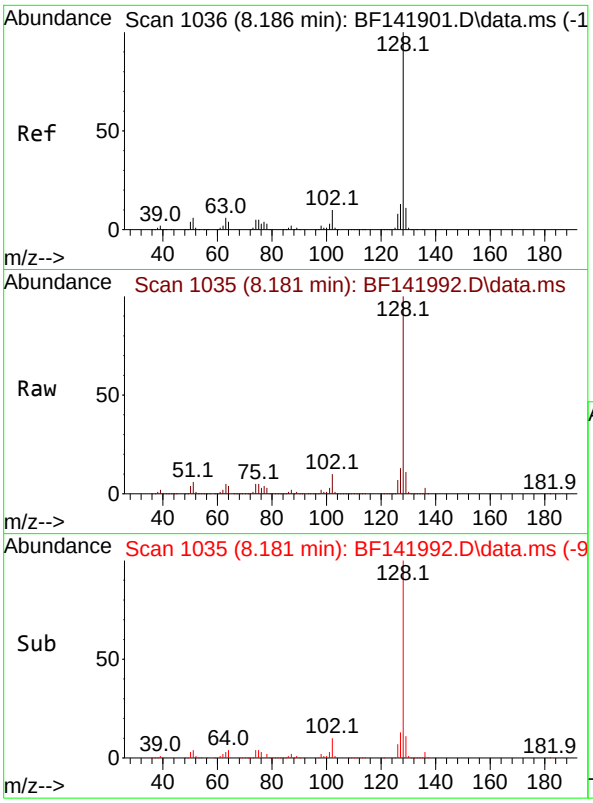


#30
1,2,4-Trichlorobenzene
Concen: 43.768 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:180 Resp: 420277

Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.5	116.3
145	31.4	25.8	38.6

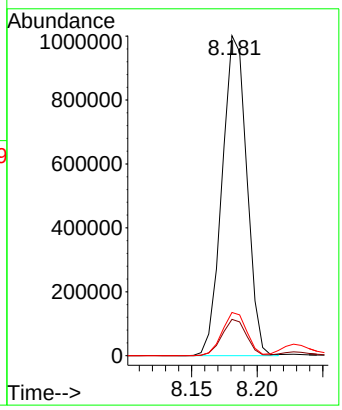




#31
Naphthalene
Concen: 43.355 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:128 Resp: 130955

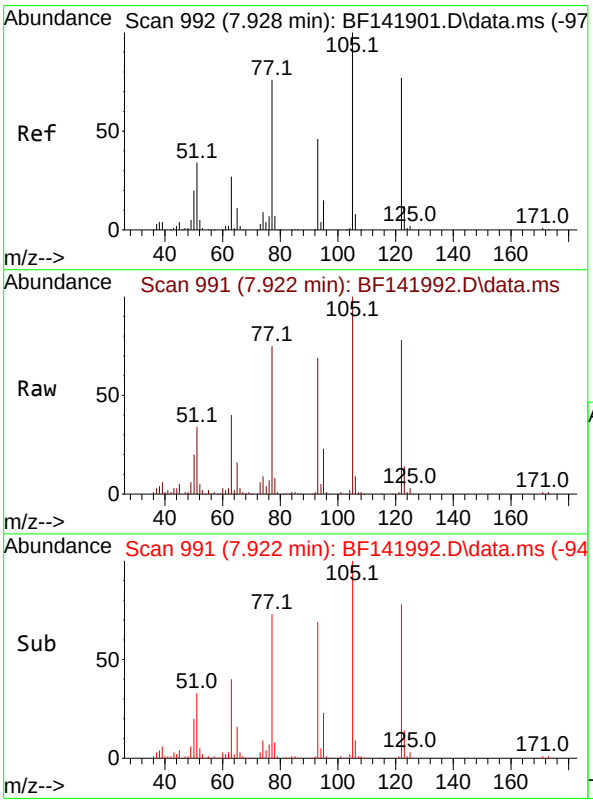
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.6
127	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

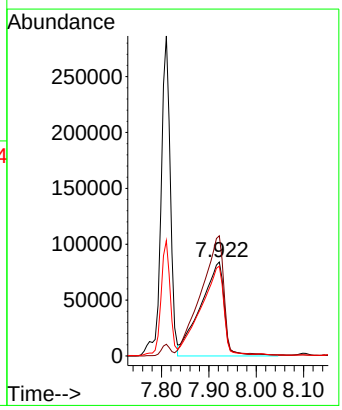
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

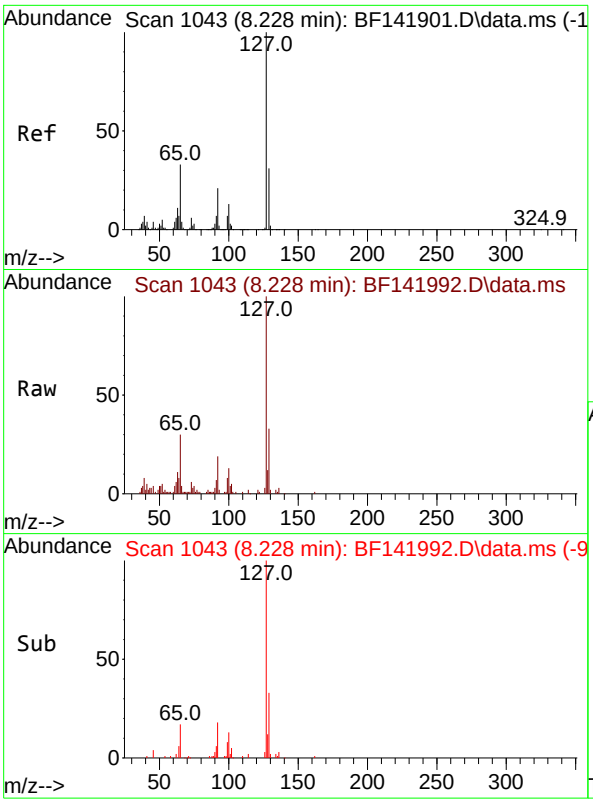


#32
Benzoic acid
Concen: 47.829 ng m
RT: 7.922 min Scan# 991
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:122 Resp: 295135

Ion	Ratio	Lower	Upper
122	100		
105	127.9	107.9	147.9
77	95.5	79.0	119.0

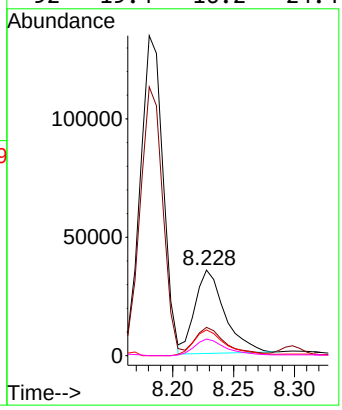




#33
4-Chloroaniline
Concen: 5.608 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:127 Resp: 5979

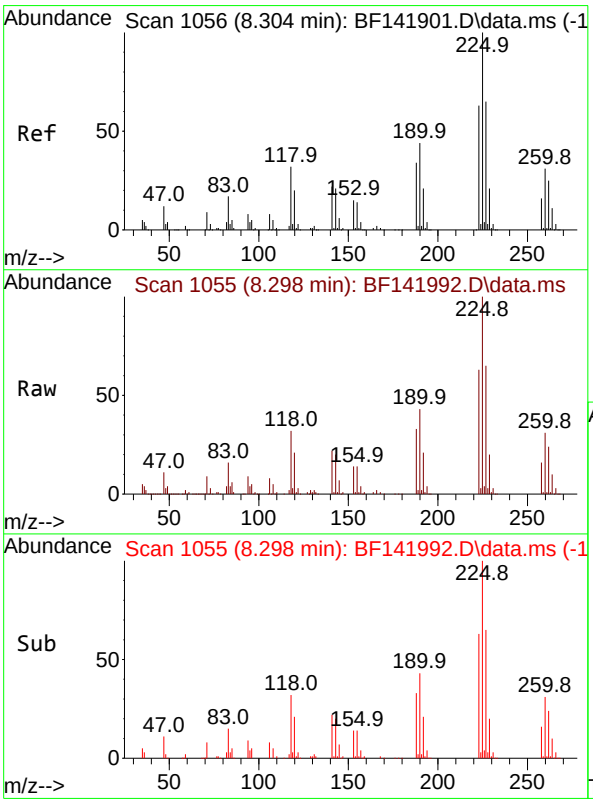
Ion	Ratio	Lower	Upper
127	100		
129	33.1	26.2	39.4
65	30.2	25.4	38.2
92	19.4	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

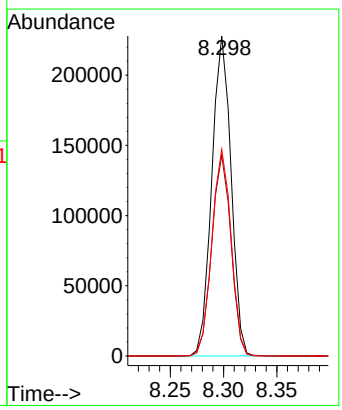
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

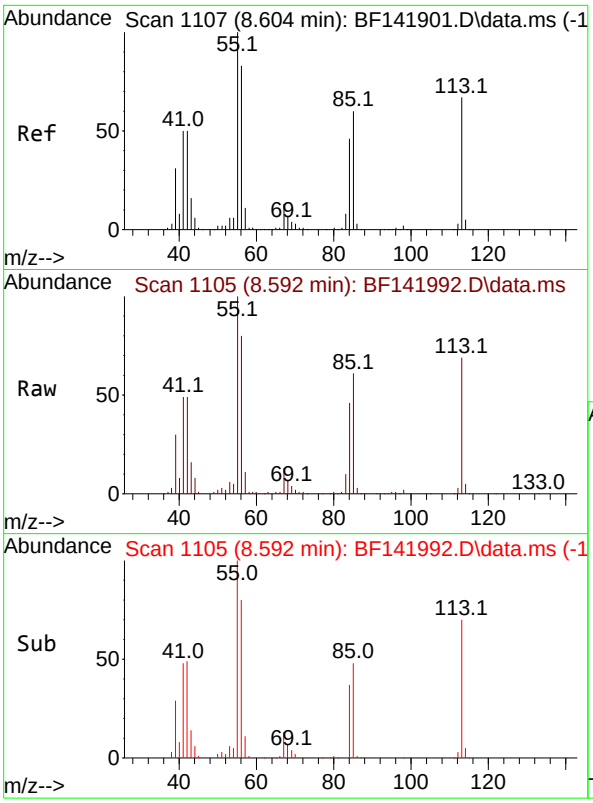


#34
Hexachlorobutadiene
Concen: 45.629 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:225 Resp: 285735

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.6	75.8
227	64.6	52.2	78.2

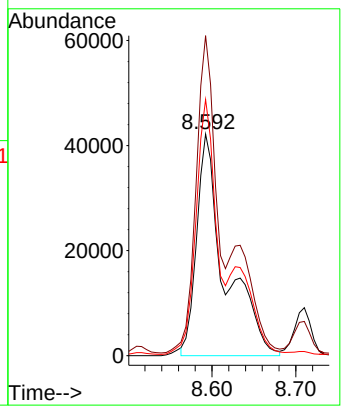




#35
Caprolactam
Concen: 37.400 ng m
RT: 8.592 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

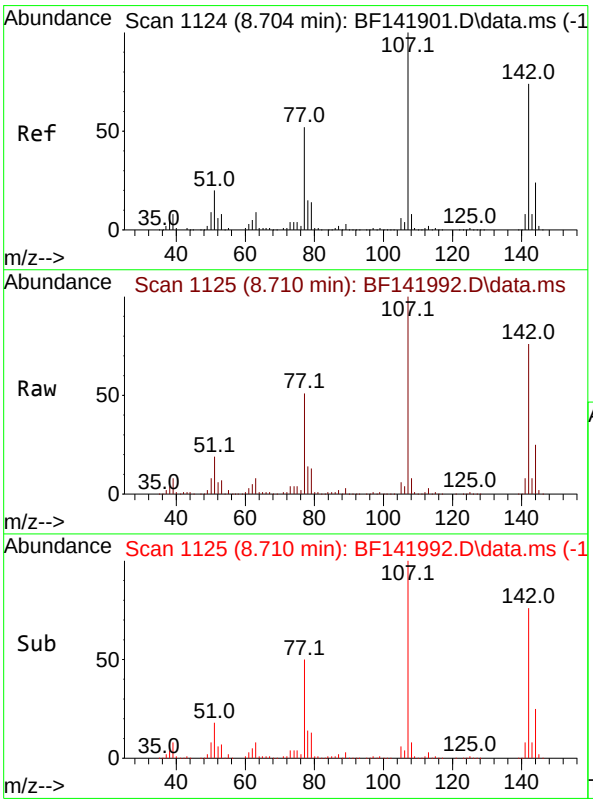
Tgt Ion:113 Resp: 9935

Ion	Ratio	Lower	Upper
113	100		
55	144.4	129.6	169.6
56	115.6	104.0	144.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

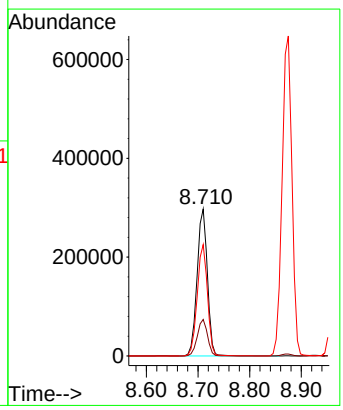
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

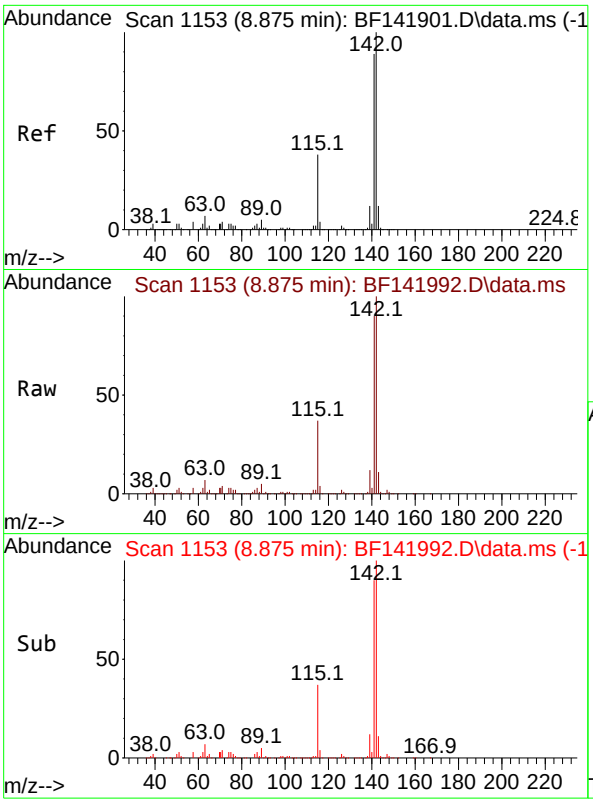


#36
4-Chloro-3-methylphenol
Concen: 42.320 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:107 Resp: 411335

Ion	Ratio	Lower	Upper
107	100		
144	24.9	19.0	28.6
142	75.9	59.2	88.8

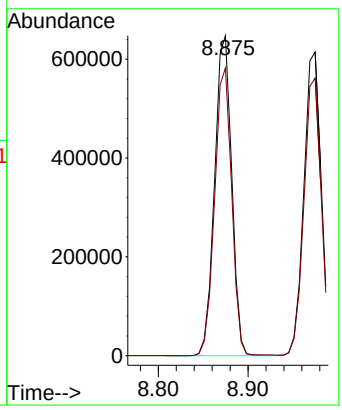




#37
2-Methylnaphthalene
Concen: 42.350 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

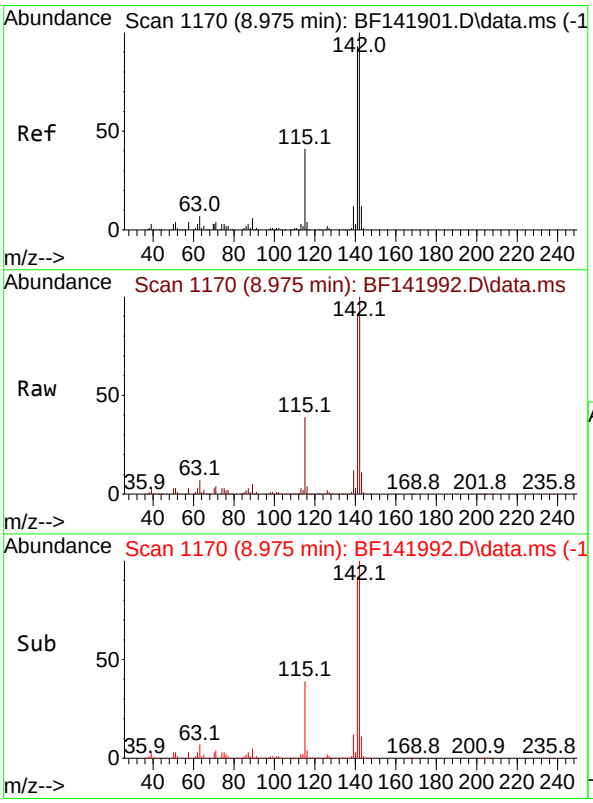
Tgt Ion:142 Resp: 85503

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.2	106.8



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

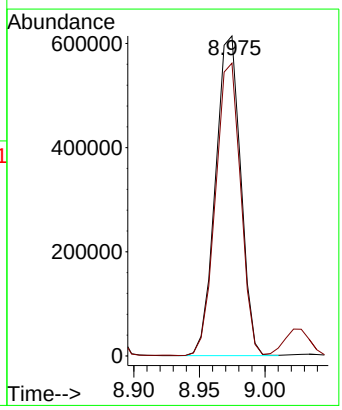
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

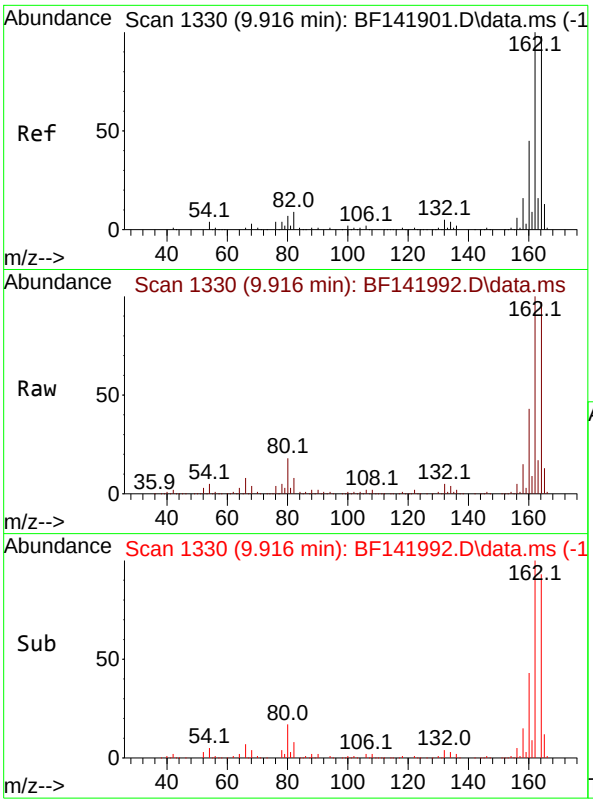


#38
1-Methylnaphthalene
Concen: 42.063 ng
RT: 8.975 min Scan# 1170
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:142 Resp: 819498

Ion	Ratio	Lower	Upper
142	100		
141	91.5	74.2	111.4

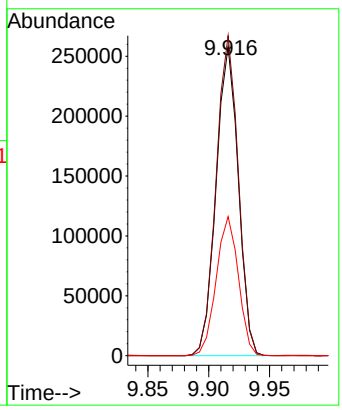




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:164 Resp: 32726

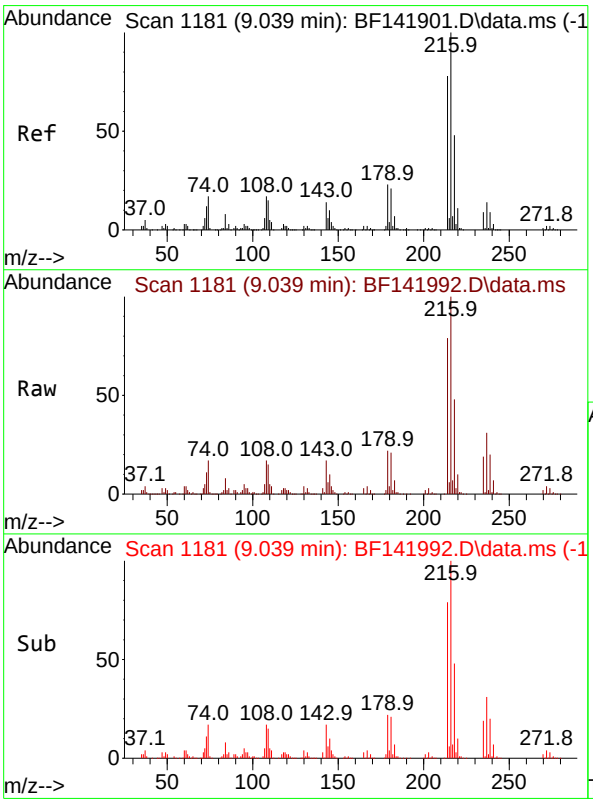
Ion	Ratio	Lower	Upper
164	100		
162	103.5	81.8	122.6
160	45.0	36.7	55.1



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations APPROVED

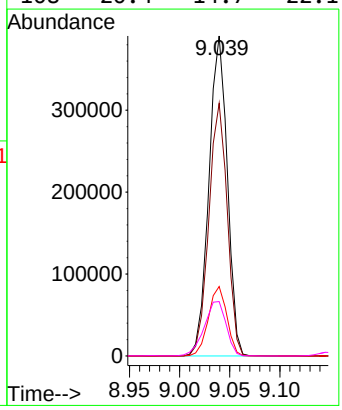
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

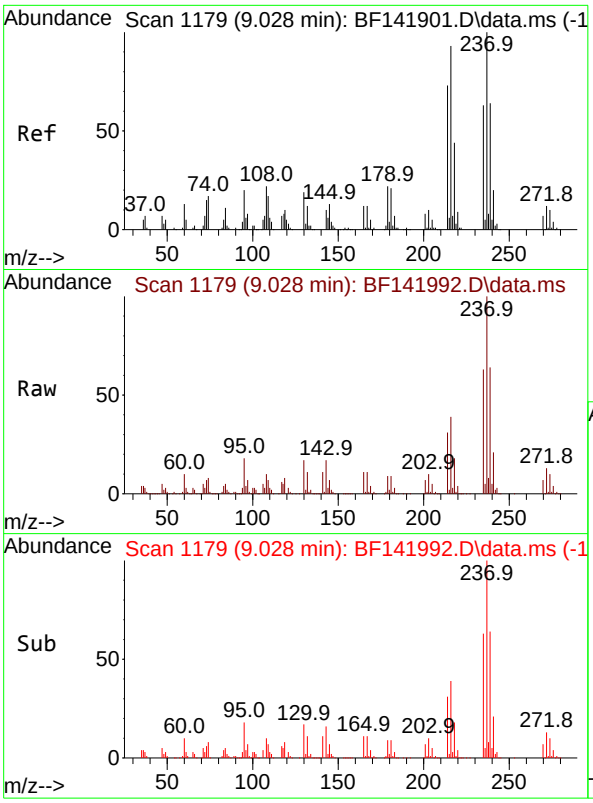


#40
1,2,4,5-Tetrachlorobenzene
Concen: 50.085 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:216 Resp: 499037

Ion	Ratio	Lower	Upper
216	100		
214	79.0	61.9	92.9
179	21.8	18.1	27.1
108	20.4	14.7	22.1

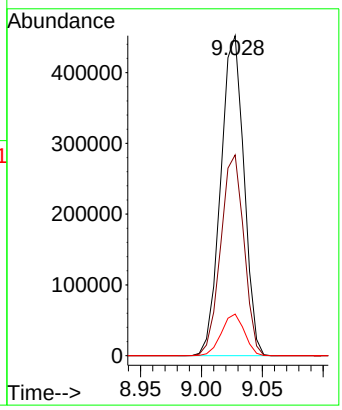




#41
Hexachlorocyclopentadiene
Concen: 153.756 ng
RT: 9.028 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:237 Resp: 59956

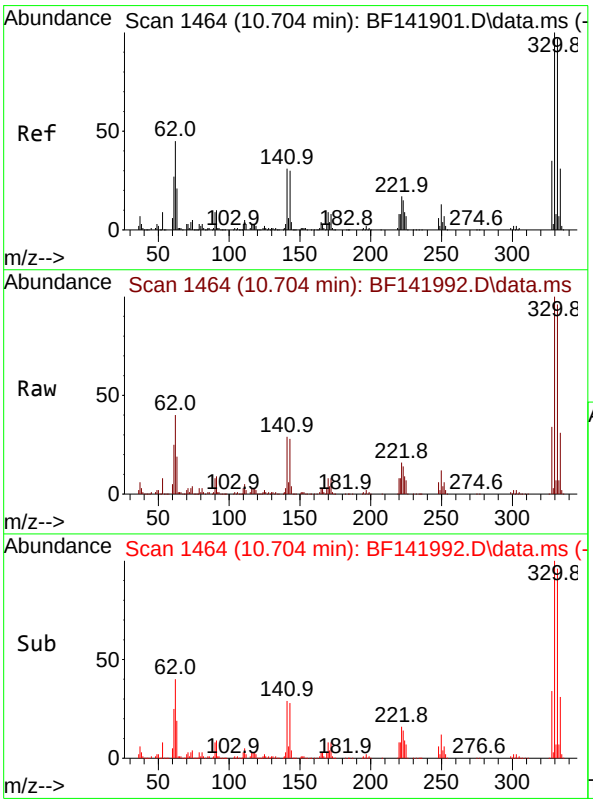
Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.1	83.1
272	13.0	0.0	32.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

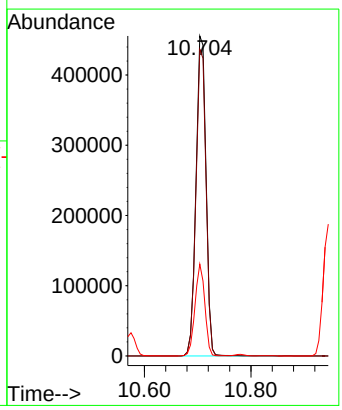
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

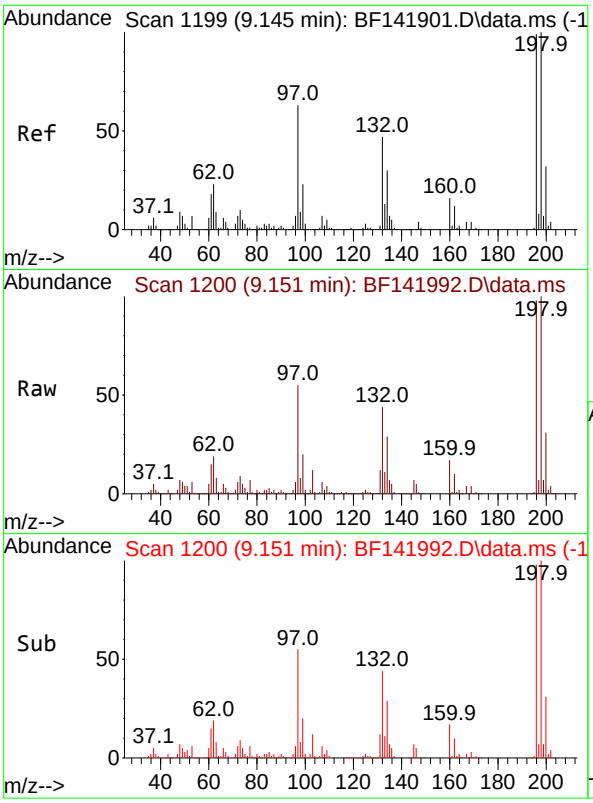


#42
2,4,6-Tribromophenol
Concen: 143.245 ng
RT: 10.704 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:330 Resp: 594720

Ion	Ratio	Lower	Upper
330	100		
332	96.1	77.6	116.4
141	28.1	24.7	37.1

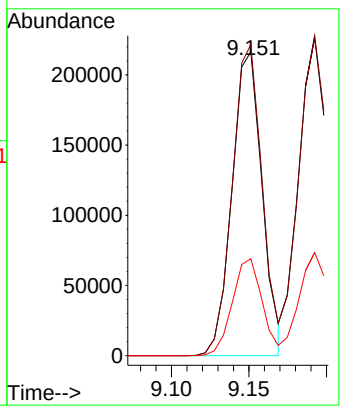




#43
2,4,6-Trichlorophenol
Concen: 44.778 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:196 Resp: 29158

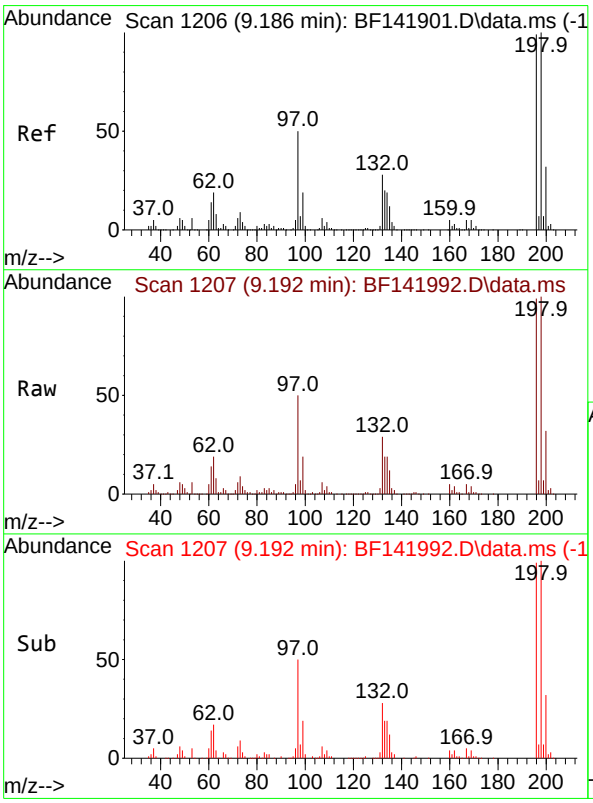
Ion	Ratio	Lower	Upper
196	100		
198	102.4	80.6	121.0
200	31.9	25.8	38.6



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

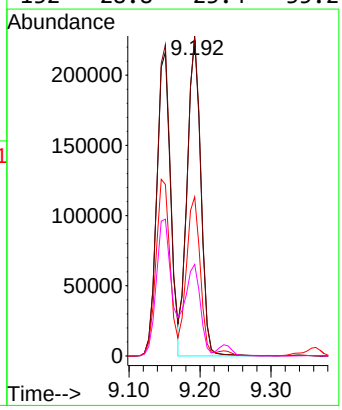
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

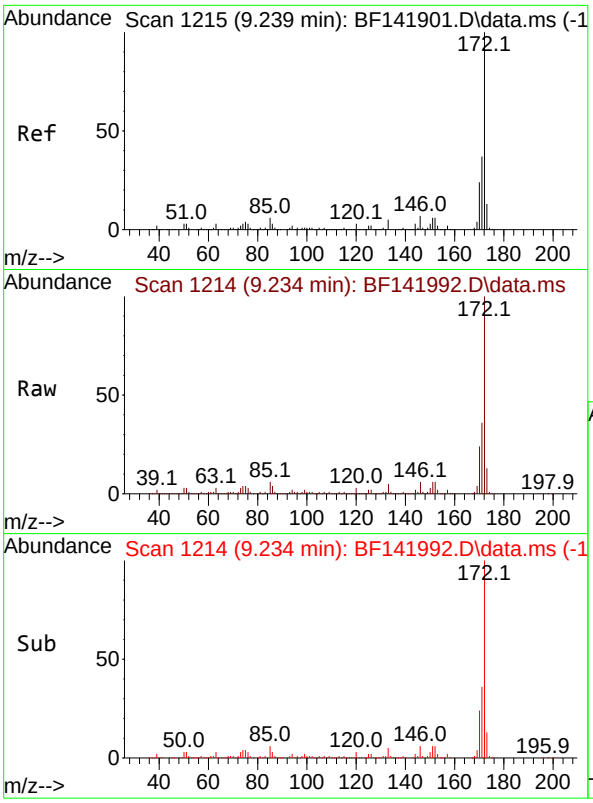


#44
2,4,5-Trichlorophenol
Concen: 45.761 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:196 Resp: 301802

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.7	121.1
97	50.1	42.1	63.1
132	28.8	23.4	35.2

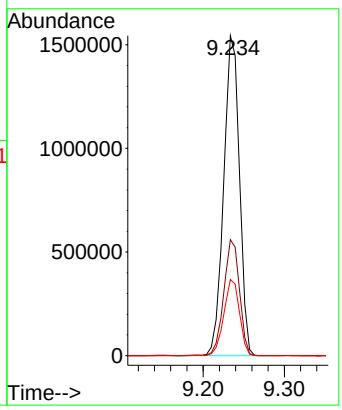




#45
2-Fluorobiphenyl
Concen: 96.770 ng
RT: 9.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:172 Resp: 208240

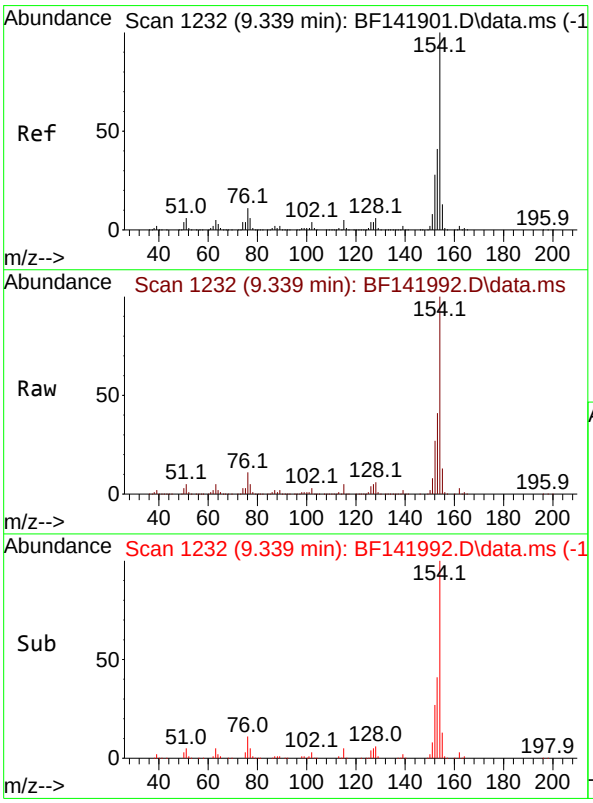
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.3	43.9
170	23.8	19.4	29.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

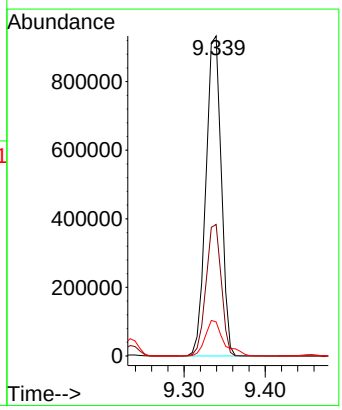
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

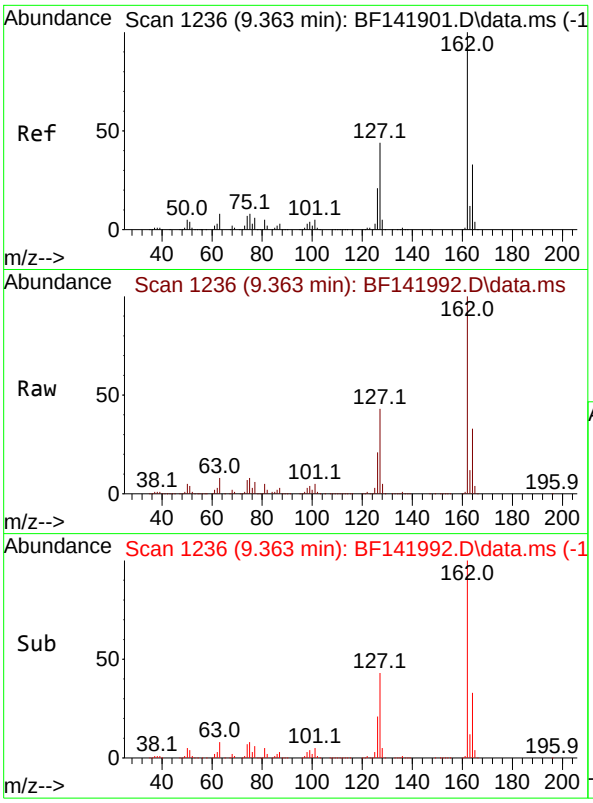


#46
1,1'-Biphenyl
Concen: 49.193 ng
RT: 9.339 min Scan# 1232
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:154 Resp: 1223225

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.1	61.1
76	10.7	0.0	31.3

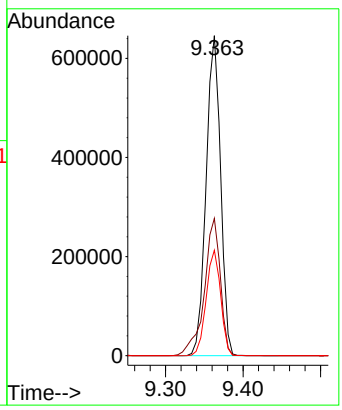




#47
2-Chloronaphthalene
Concen: 45.062 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:162 Resp: 83517

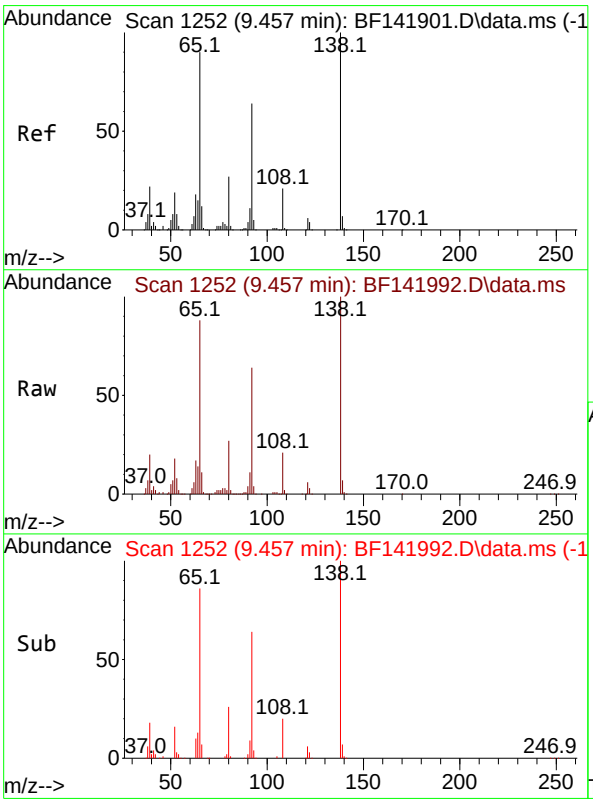
Ion	Ratio	Lower	Upper
162	100		
127	42.9	35.5	53.3
164	33.0	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

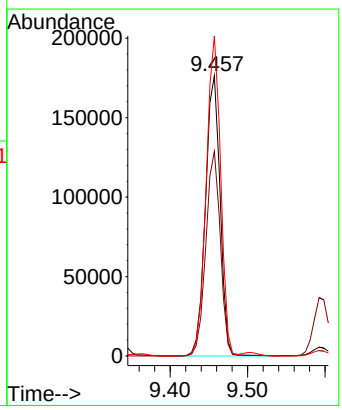
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

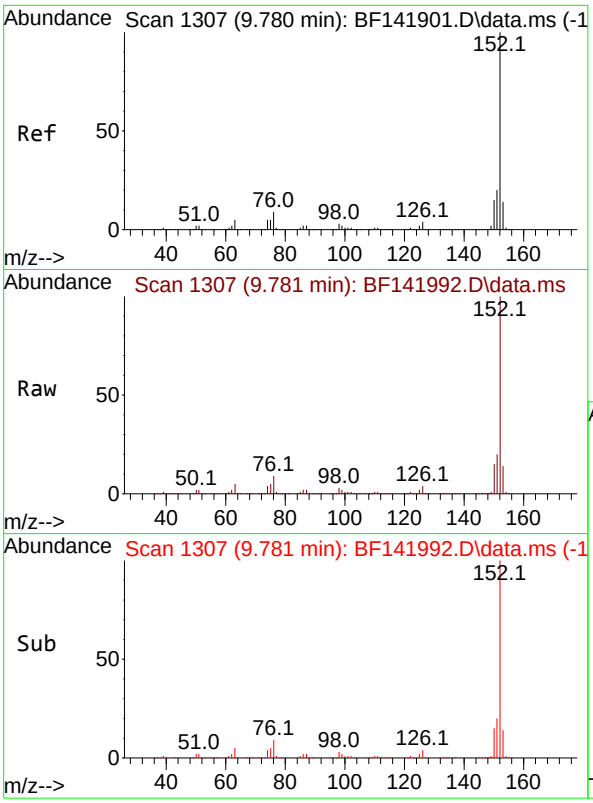


#48
2-Nitroaniline
Concen: 43.166 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 65 Resp: 231642

Ion	Ratio	Lower	Upper
65	100		
92	73.0	56.6	84.8
138	114.2	88.6	133.0

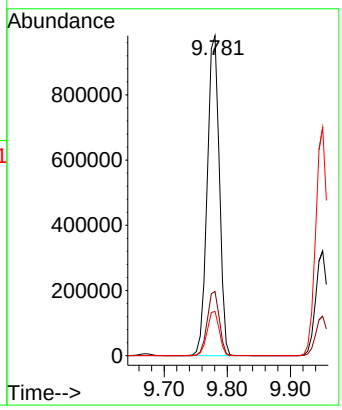




#49
Acenaphthylene
Concen: 47.417 ng
RT: 9.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:152 Resp: 130414

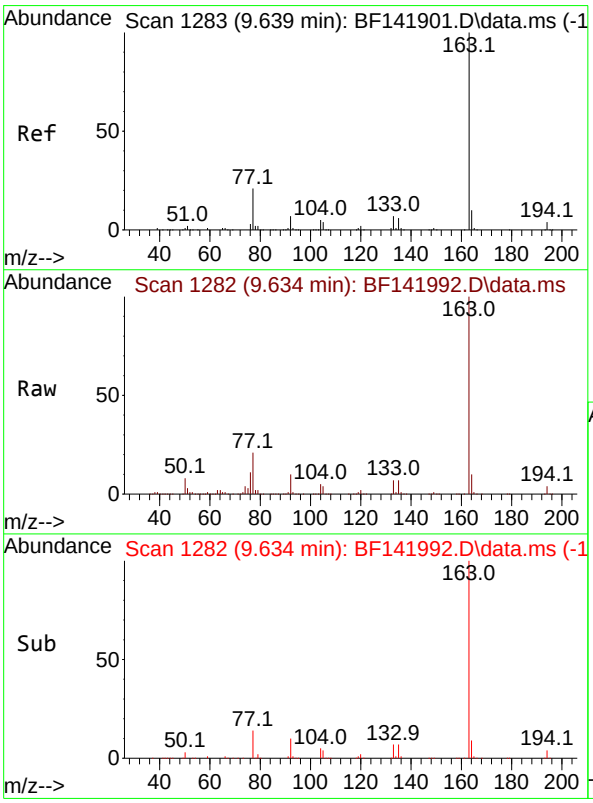
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	13.8	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

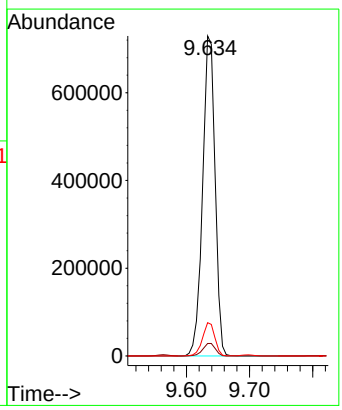
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

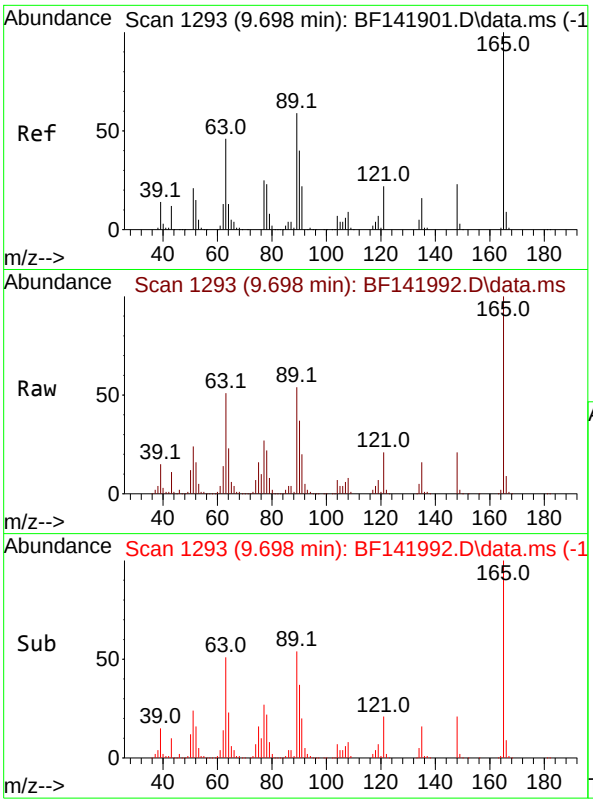


#50
Dimethylphthalate
Concen: 43.807 ng
RT: 9.634 min Scan# 1282
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:163 Resp: 1003942

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.4	8.2	12.4

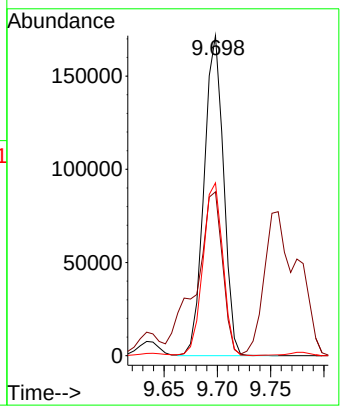




#51
2,6-Dinitrotoluene
Concen: 45.811 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:165 Resp: 21859

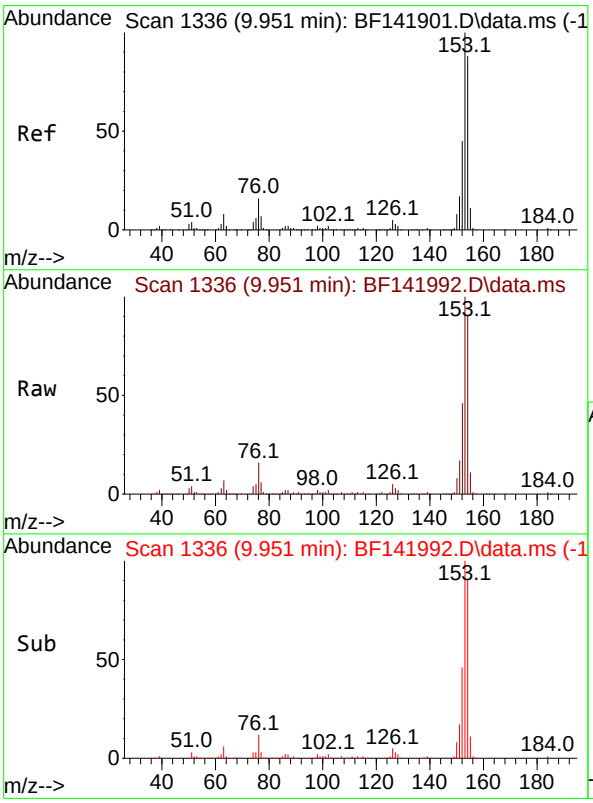
Ion	Ratio	Lower	Upper
165	100		
63	51.2	47.0	70.4
89	54.0	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

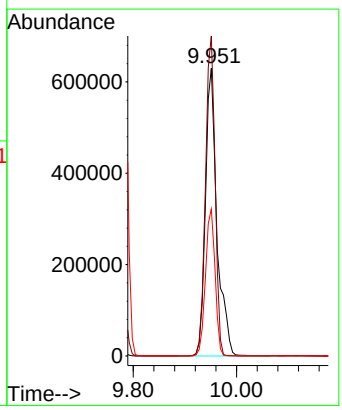
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

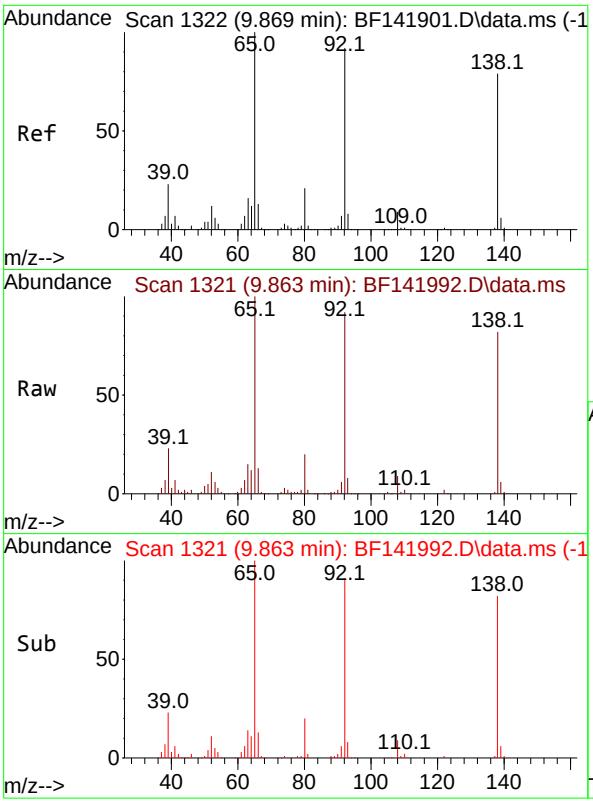


#52
Acenaphthene
Concen: 50.481 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:154 Resp: 975716

Ion	Ratio	Lower	Upper
154	100		
153	111.2	90.7	136.1
152	51.1	41.1	61.7





#53
3-Nitroaniline
Concen: 12.228 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

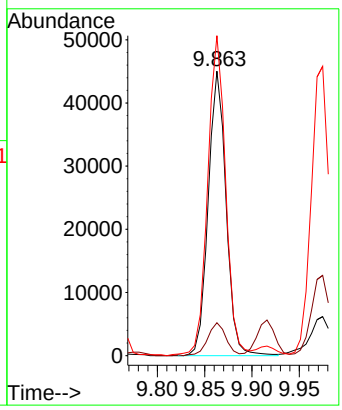
Tgt Ion:138 Resp: 5918

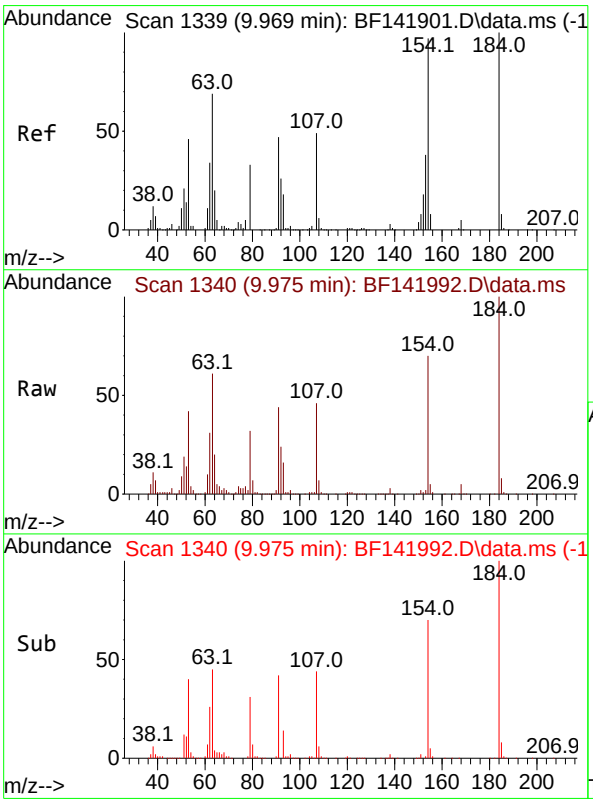
Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.3	13.9
92	112.5	93.5	140.3

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

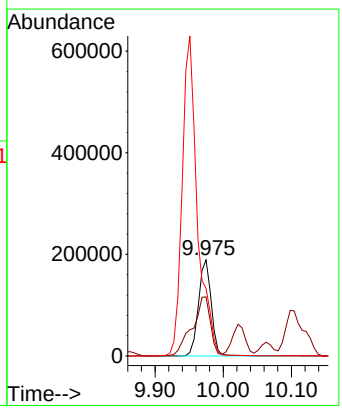


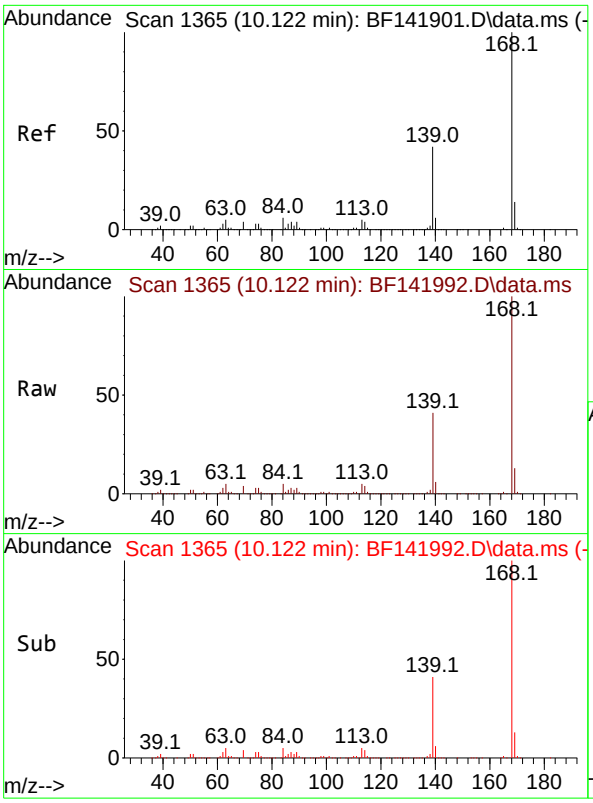


#54
2,4-Dinitrophenol
Concen: 89.973 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:184 Resp: 246349

Ion	Ratio	Lower	Upper
184	100		
63	61.4	60.2	90.4
154	70.5	132.9	199.3#

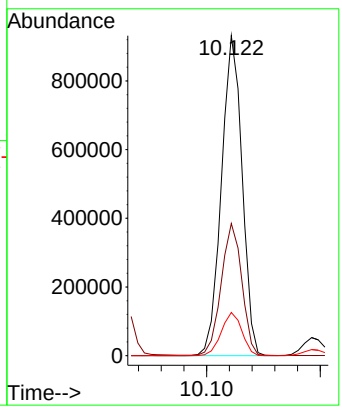




#55
Dibenzofuran
Concen: 42.639 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:168 Resp: 117759

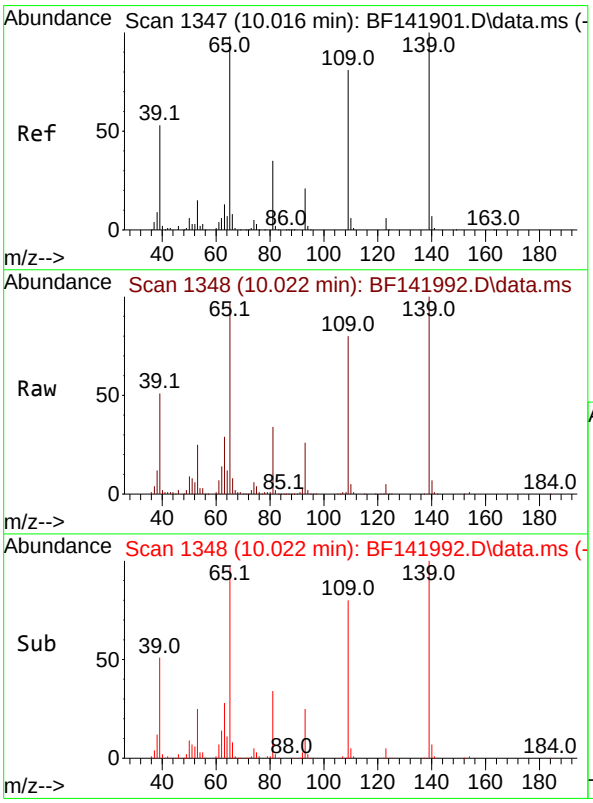
Ion	Ratio	Lower	Upper
168	100		
139	41.3	33.9	50.9
169	13.5	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

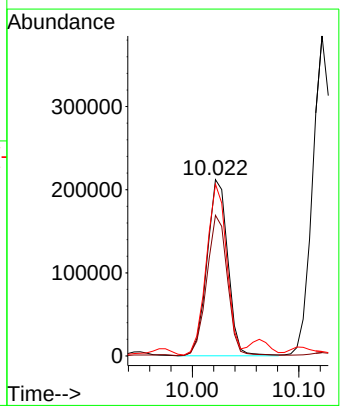
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

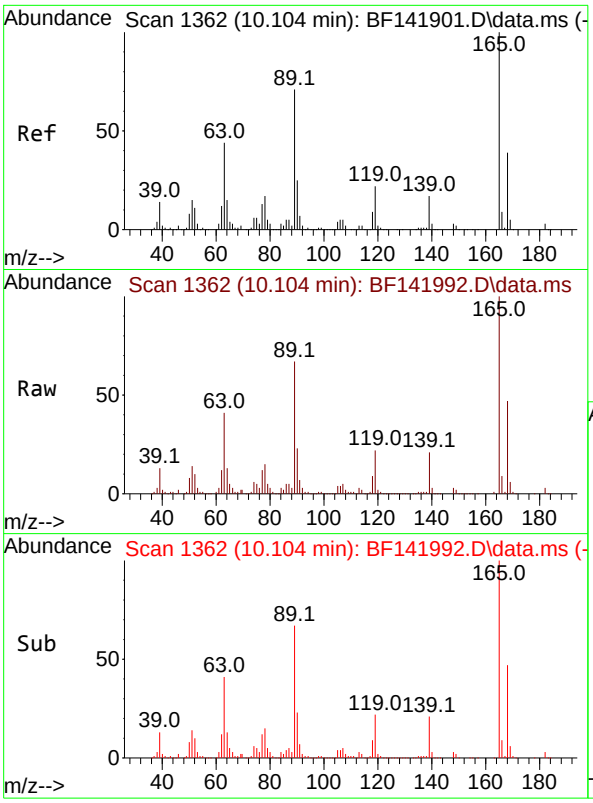


#56
4-Nitrophenol
Concen: 78.642 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:139 Resp: 287055

Ion	Ratio	Lower	Upper
139	100		
109	79.8	61.6	101.6
65	97.5	79.4	119.4

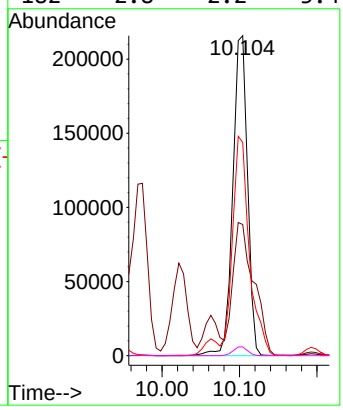




#57
2,4-Dinitrotoluene
Concen: 45.803 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:165 Resp: 28545

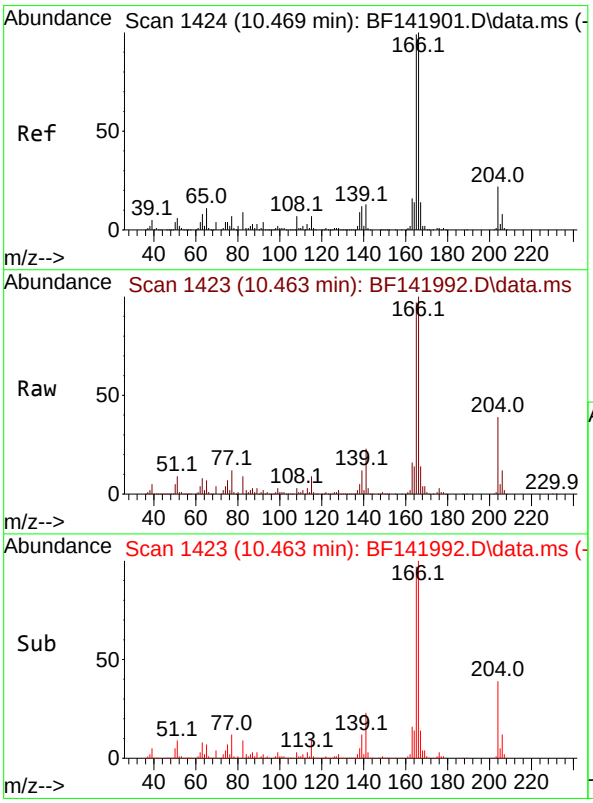
Ion	Ratio	Lower	Upper
165	100		
63	41.0	35.4	53.2
89	66.6	56.6	84.8
182	2.8	2.2	3.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

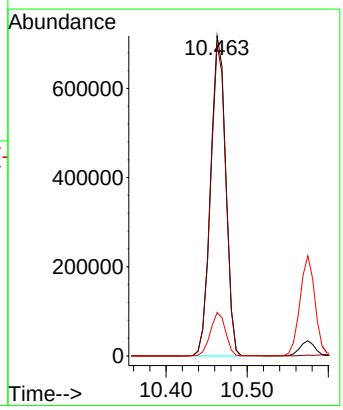
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

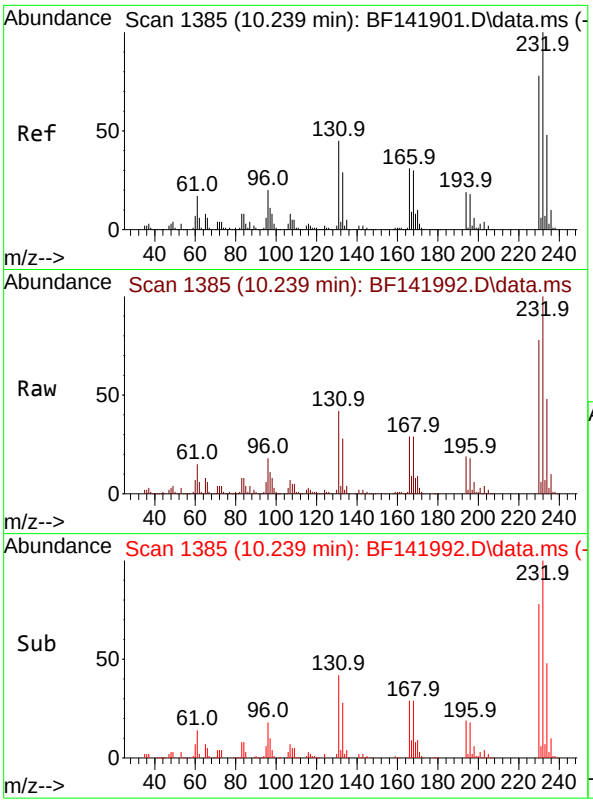


#58
Fluorene
Concen: 43.562 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:166 Resp: 927784

Ion	Ratio	Lower	Upper
166	100		
165	97.2	79.0	118.4
167	13.5	11.0	16.4

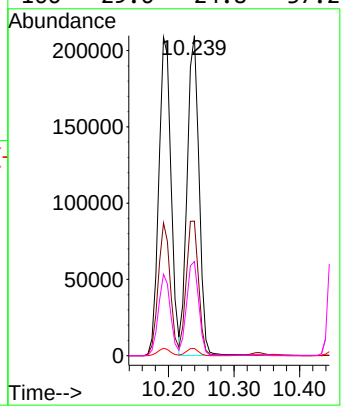




#59
2,3,4,6-Tetrachlorophenol
Concen: 43.713 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:232 Resp: 26234

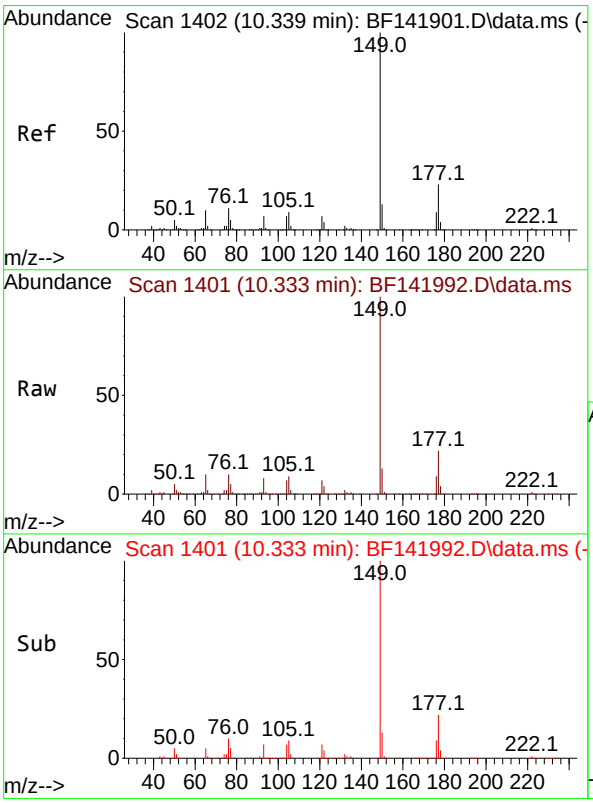
Ion	Ratio	Lower	Upper
232	100		
131	43.7	37.3	55.9
130	2.3	1.9	2.9
166	29.6	24.8	37.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

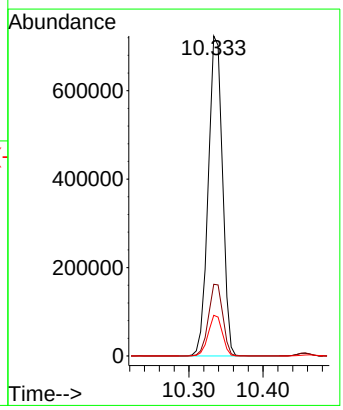
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

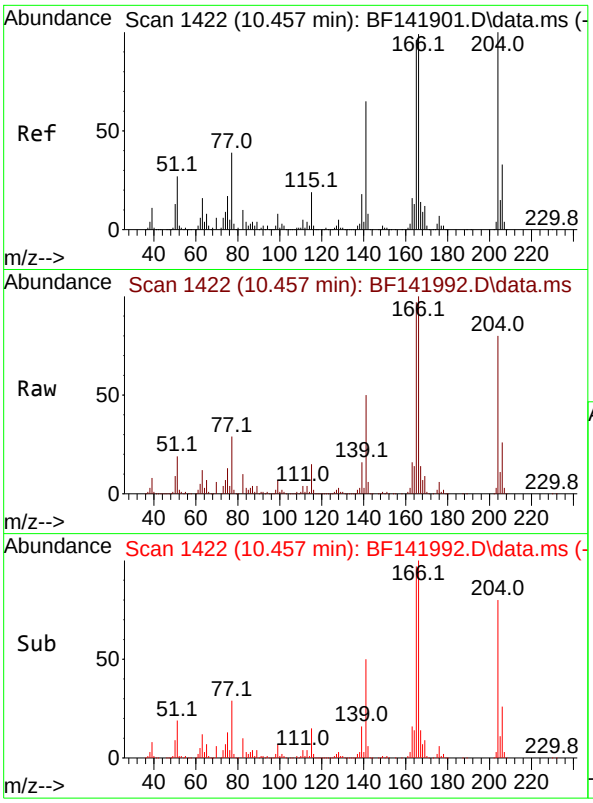


#60
Diethylphthalate
Concen: 42.236 ng
RT: 10.333 min Scan# 1401
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:149 Resp: 965154

Ion	Ratio	Lower	Upper
149	100		
177	22.4	18.0	27.0
150	12.7	10.2	15.4

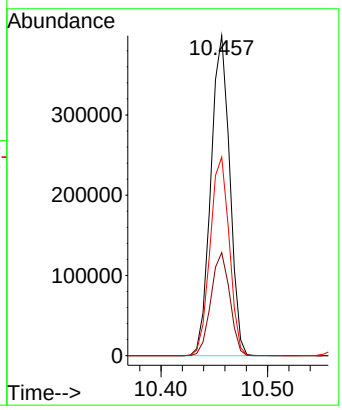




#61
4-Chlorophenyl-phenylether
Concen: 44.150 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:204 Resp: 49023

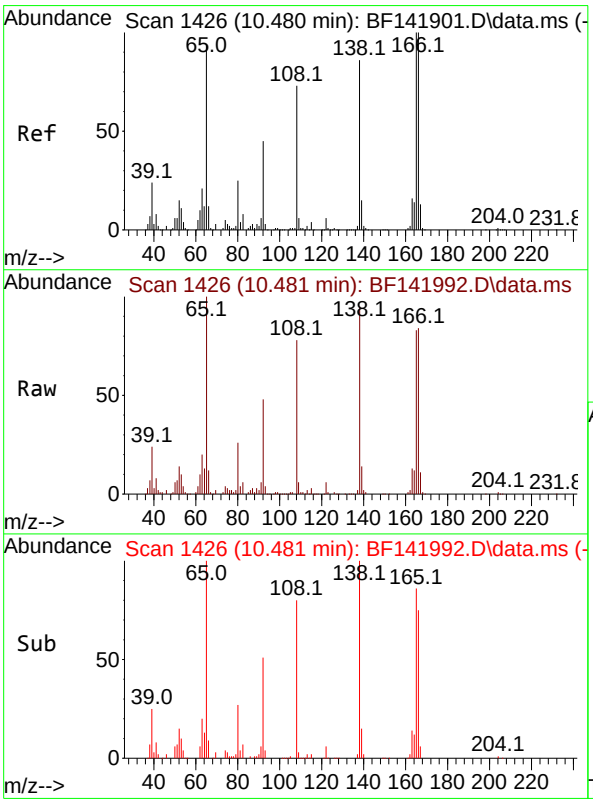
Ion	Ratio	Lower	Upper
204	100		
206	32.2	26.8	40.2
141	62.1	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

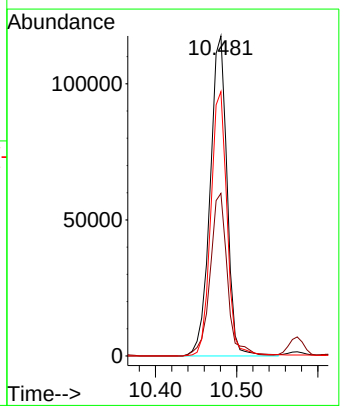
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

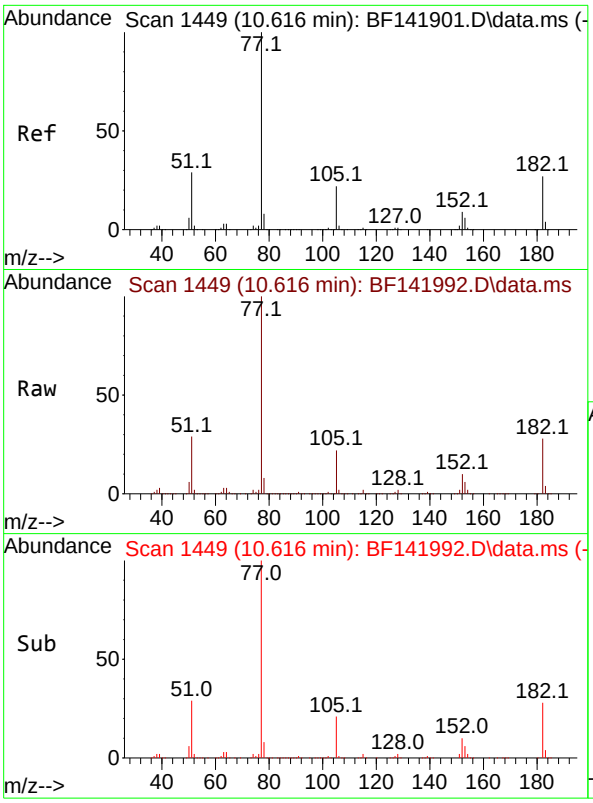


#62
4-Nitroaniline
Concen: 36.115 ng
RT: 10.481 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:138 Resp: 170182

Ion	Ratio	Lower	Upper
138	100		
92	50.8	32.6	72.6
108	82.6	65.0	105.0

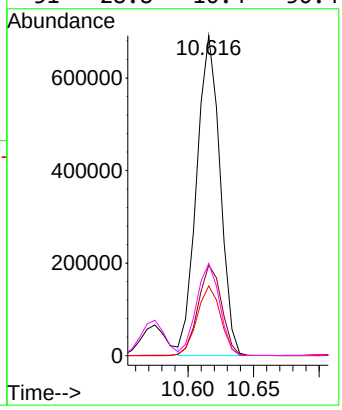




#63
Azobenzene
Concen: 40.302 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

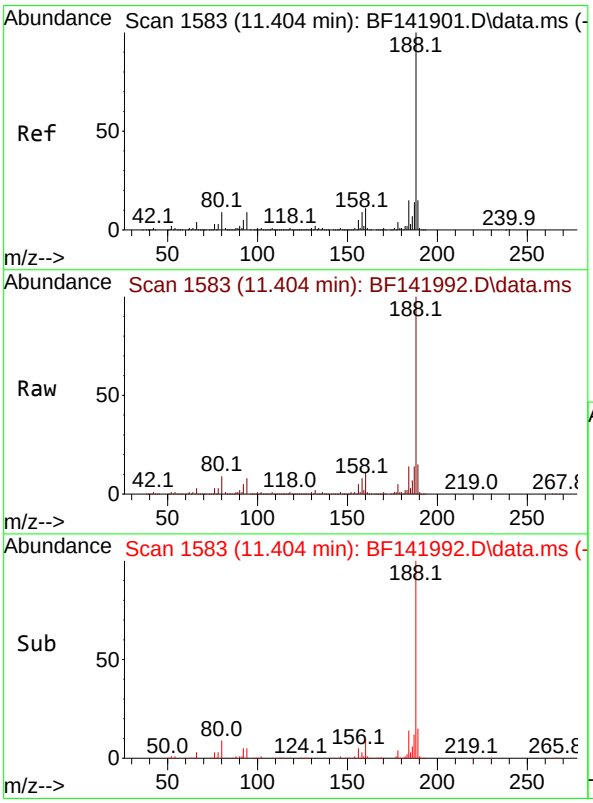
Tgt Ion: 77 Resp: 85624

Ion	Ratio	Lower	Upper
77	100		
182	28.3	6.6	46.6
105	21.8	1.3	41.3
51	28.8	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

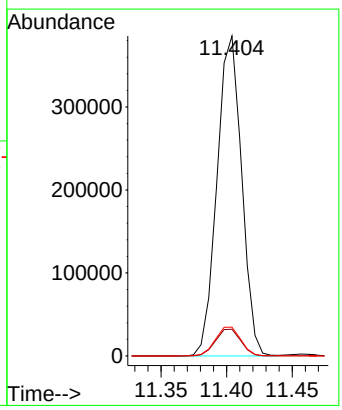
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

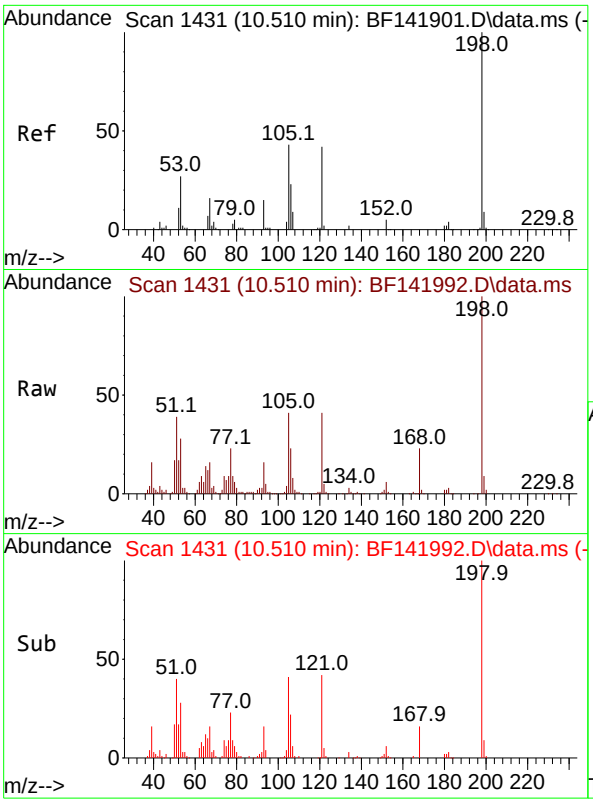


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:188 Resp: 504077

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.8	10.2
80	9.0	7.6	11.4





#65
4,6-Dinitro-2-methylphenol
Concen: 49.783 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

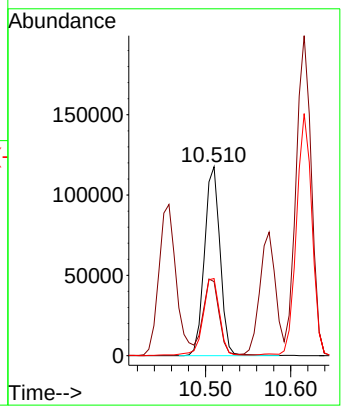
Tgt Ion:198 Resp: 14959

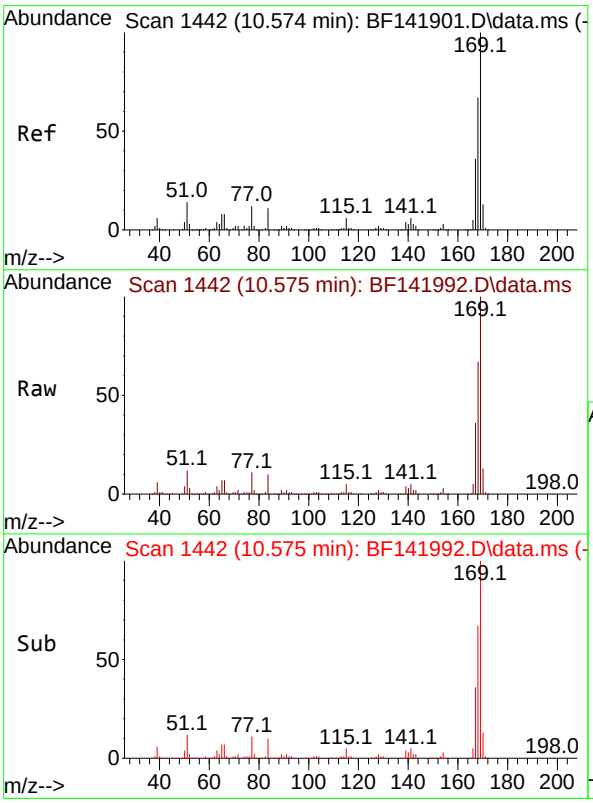
Ion	Ratio	Lower	Upper
198	100		
51	39.2	22.3	62.3
105	40.8	23.0	63.0

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

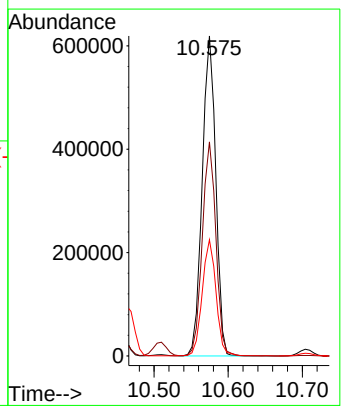


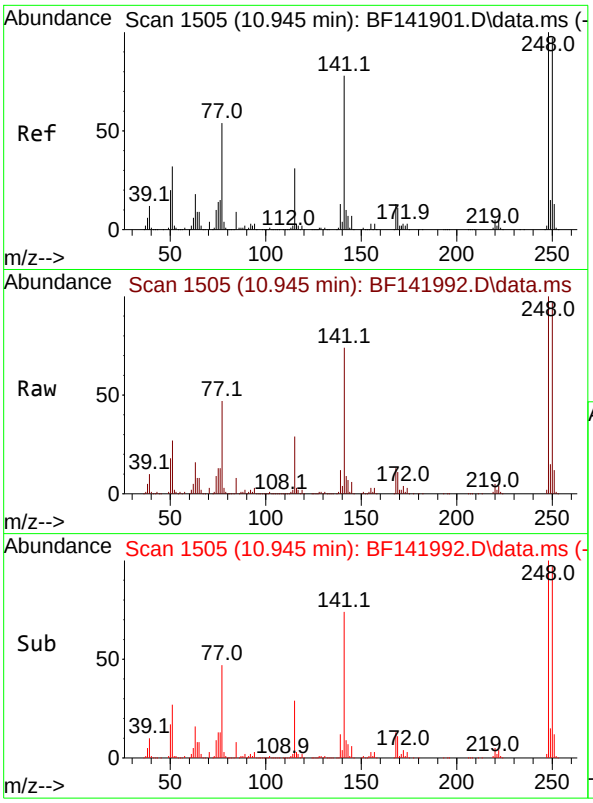


#66
n-Nitrosodiphenylamine
Concen: 48.113 ng
RT: 10.575 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:169 Resp: 784826

Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.7	80.5
167	36.3	29.2	43.8

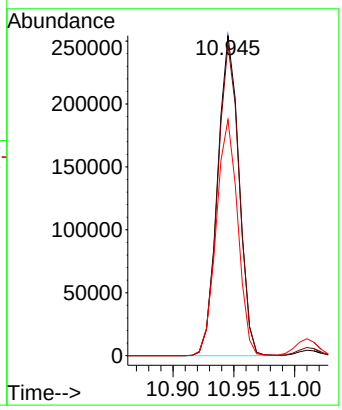




#67
4-Bromophenyl-phenylether
Concen: 49.106 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:248 Resp: 31086

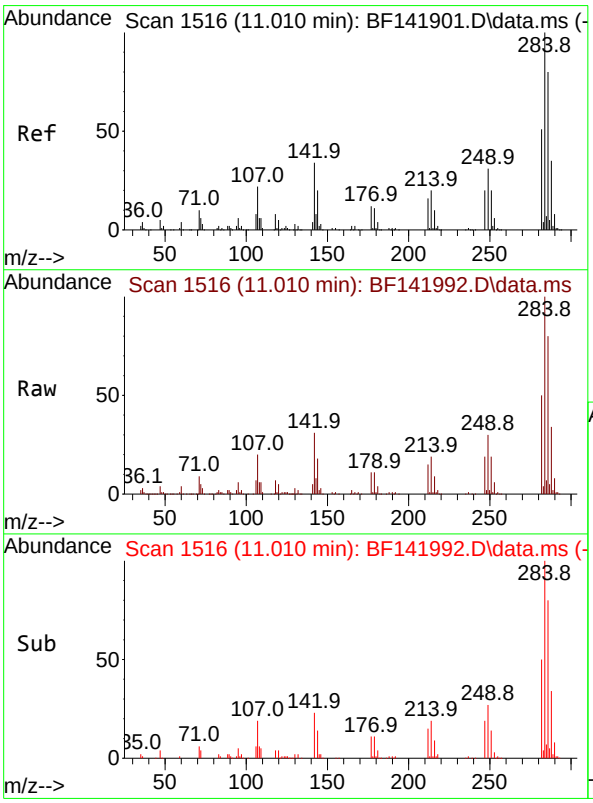
Ion	Ratio	Lower	Upper
248	100		
250	97.3	77.8	116.8
141	73.8	62.6	93.8



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

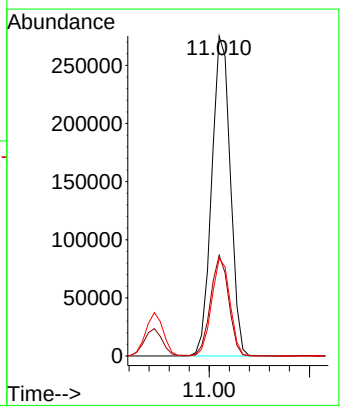
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

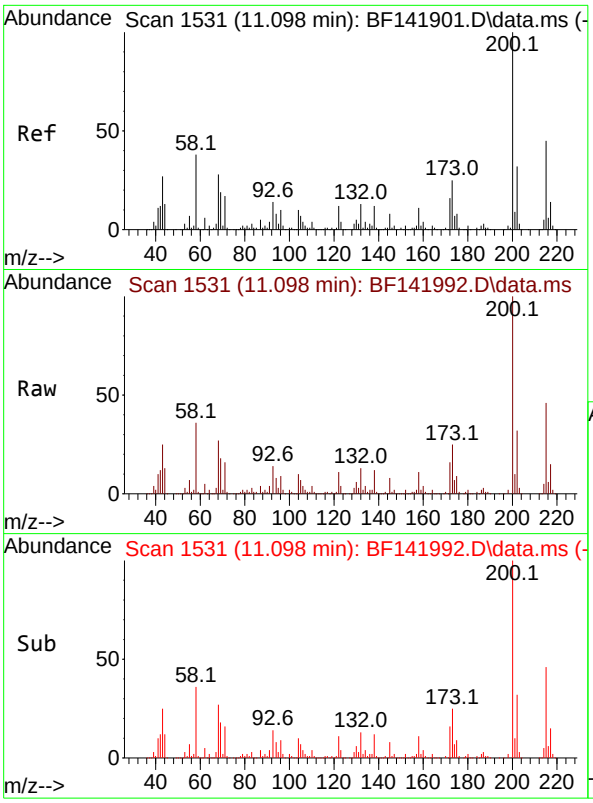


#68
Hexachlorobenzene
Concen: 50.972 ng
RT: 11.010 min Scan# 1516
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:284 Resp: 353910

Ion	Ratio	Lower	Upper
284	100		
142	31.5	27.0	40.6
249	30.4	25.2	37.8

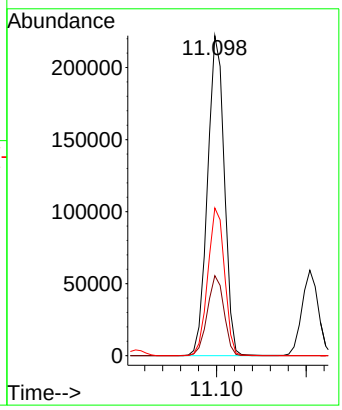




#69
Atrazine
Concen: 57.499 ng
RT: 11.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:200 Resp: 28753

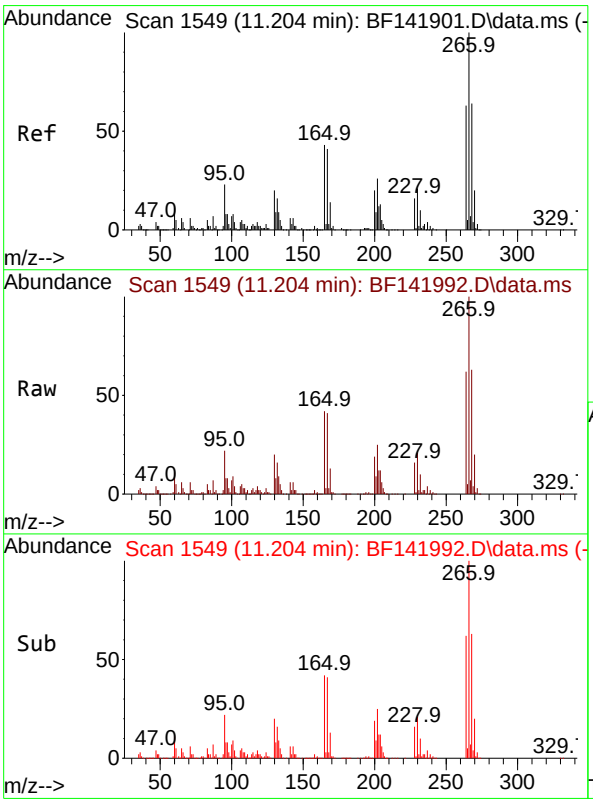
Ion	Ratio	Lower	Upper
200	100		
173	25.0	4.7	44.7
215	46.1	25.4	65.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

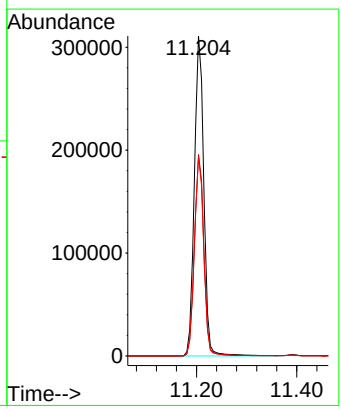
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

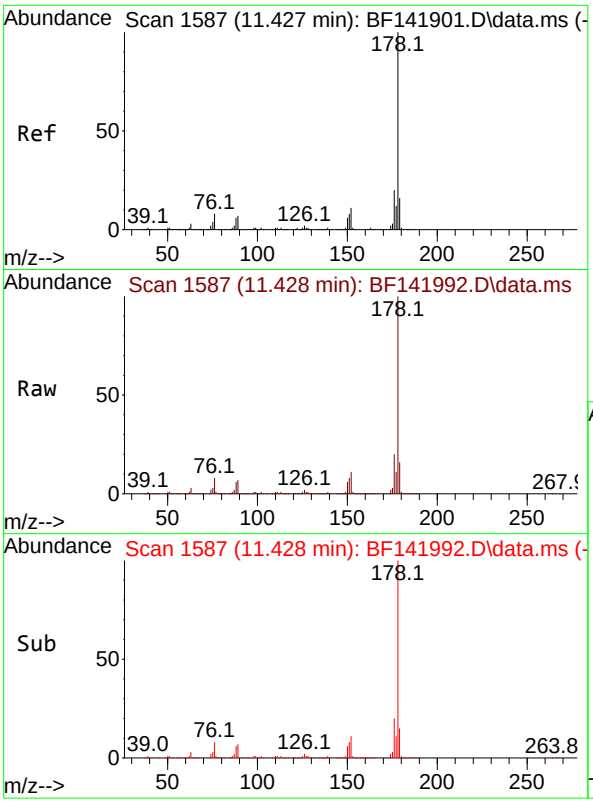


#70
Pentachlorophenol
Concen: 94.768 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:266 Resp: 405413

Ion	Ratio	Lower	Upper
266	100		
268	62.9	51.0	76.6
264	62.4	50.2	75.2

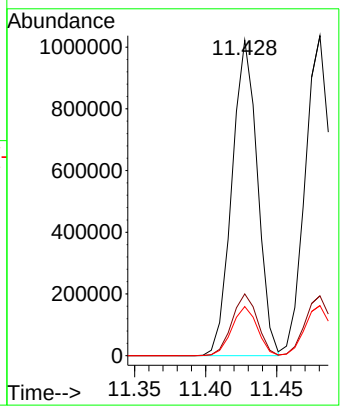




#71
Phenanthrene
Concen: 46.862 ng
RT: 11.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:178 Resp: 127590

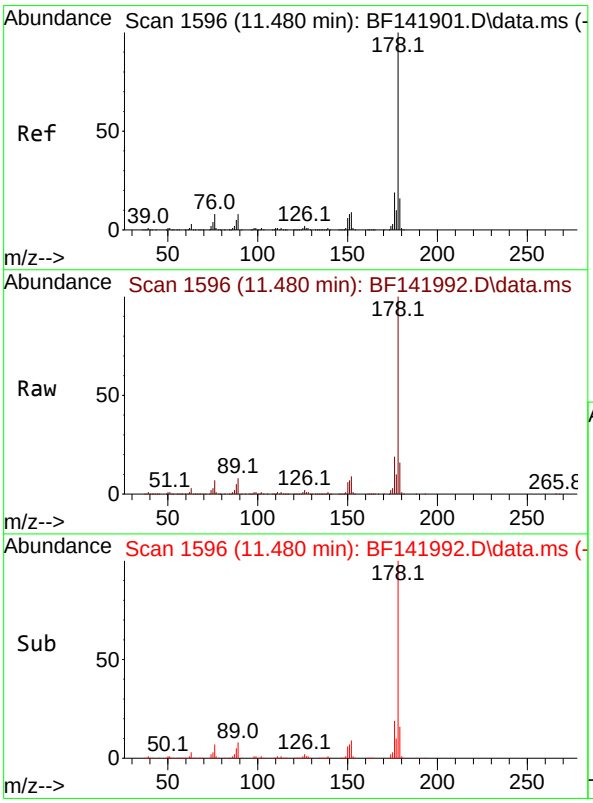
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.5	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

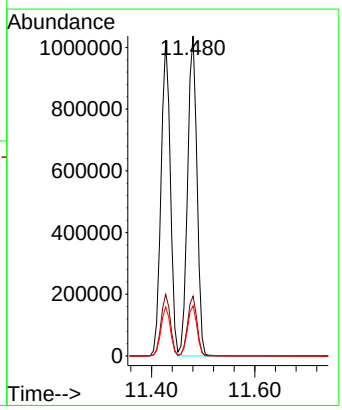
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

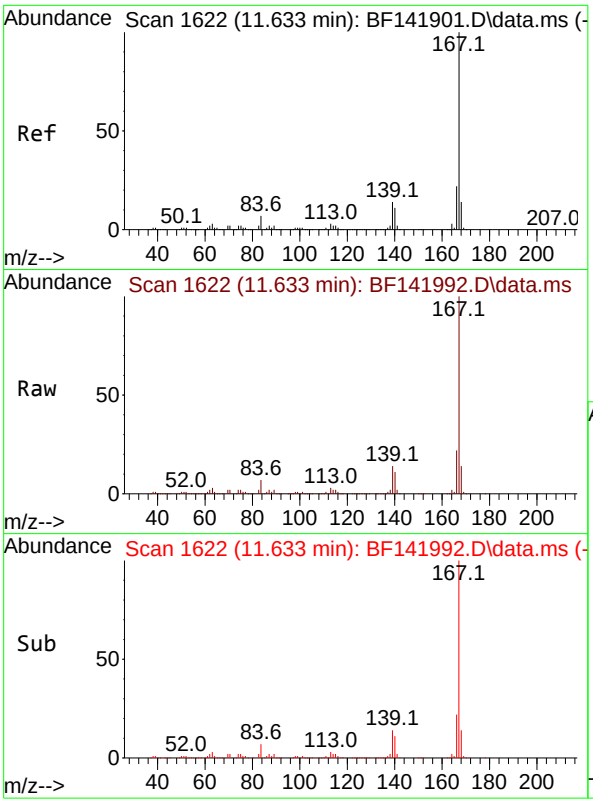


#72
Anthracene
Concen: 47.795 ng
RT: 11.480 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:178 Resp: 1305550

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.1	22.7
179	15.6	12.6	19.0

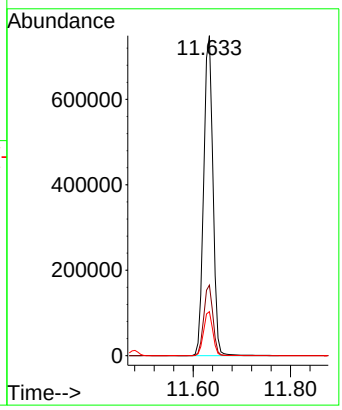




#73
Carbazole
Concen: 41.672 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:167 Resp: 98167

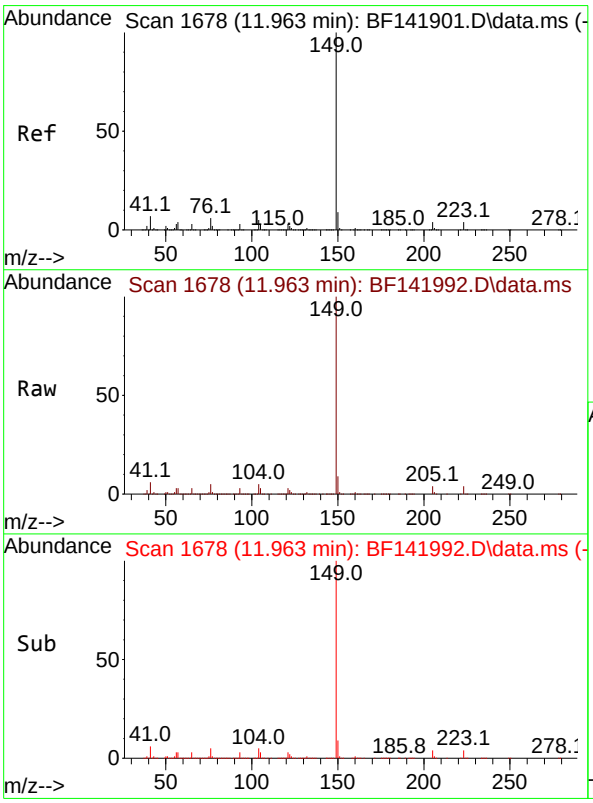
Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.4	26.2
139	13.7	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

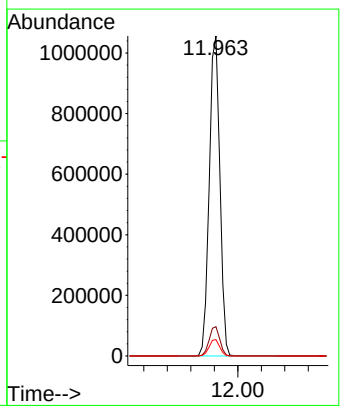
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

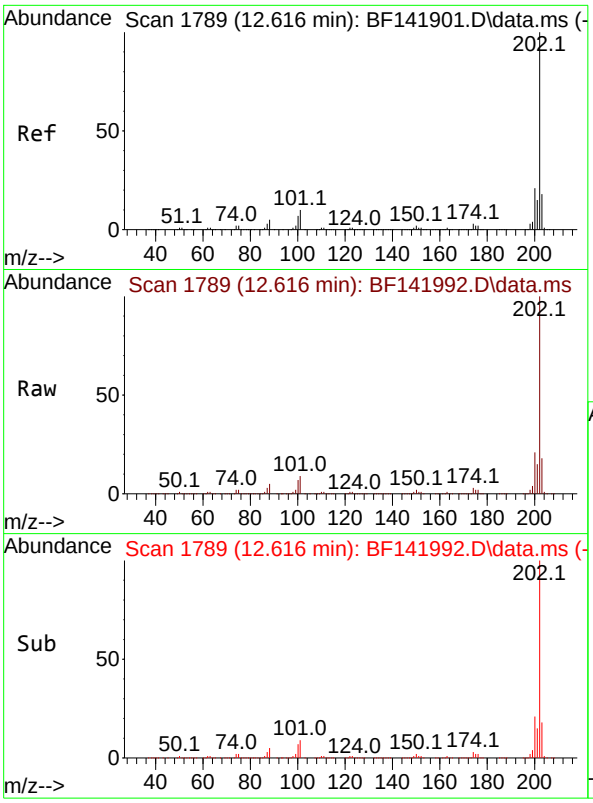


#74
Di-n-butylphthalate
Concen: 42.467 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:149 Resp: 1327416

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.6	11.4
104	5.1	4.4	6.6





#75
Fluoranthene
Concen: 39.814 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

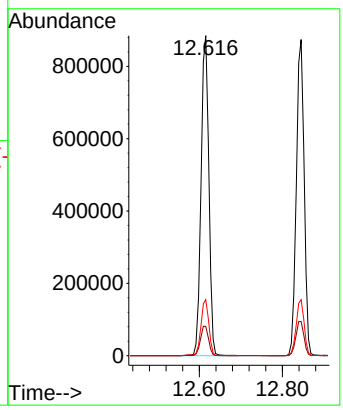
Tgt Ion:202 Resp: 114989

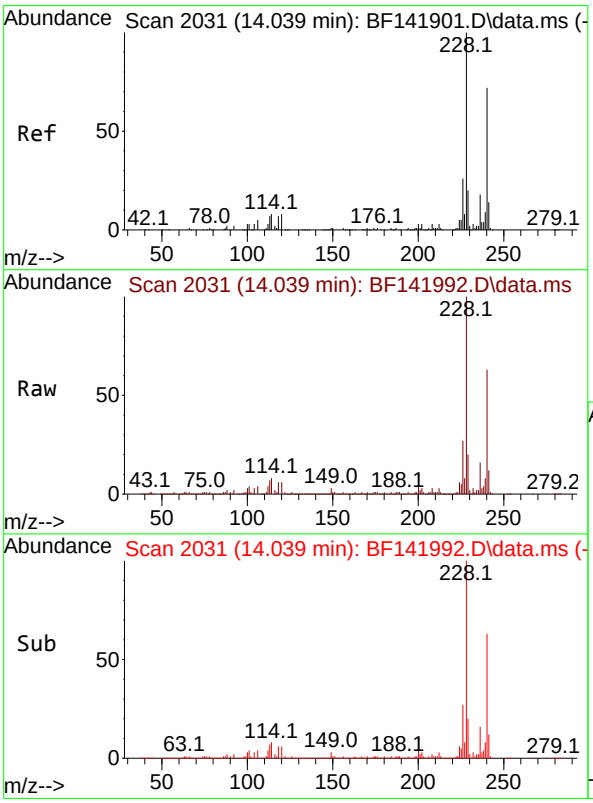
Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	29.7
203	17.5	0.0	37.8

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

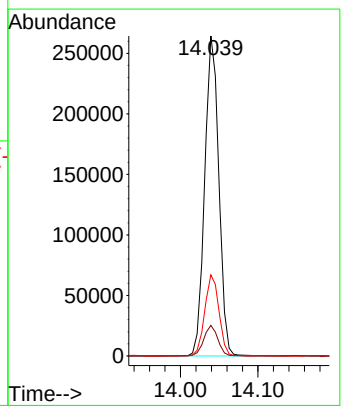


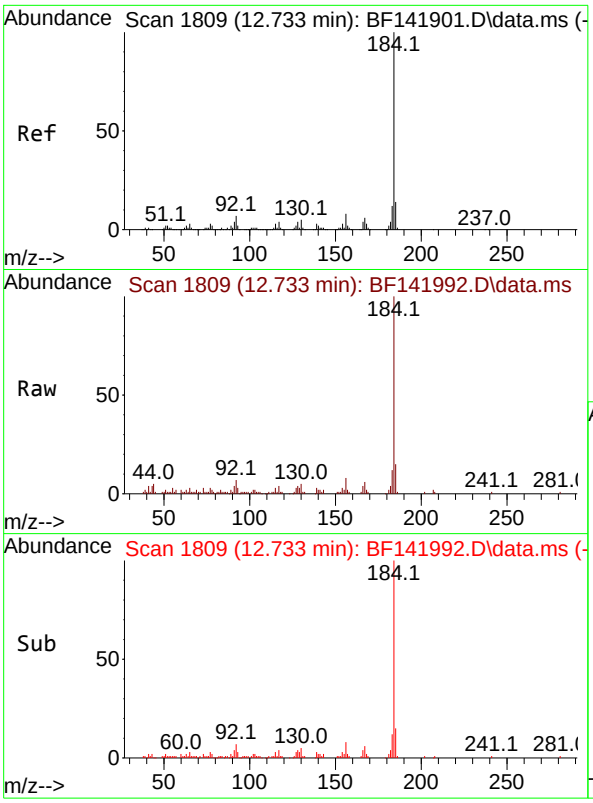


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:240 Resp: 334257

Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.4	12.6
236	25.3	20.5	30.7

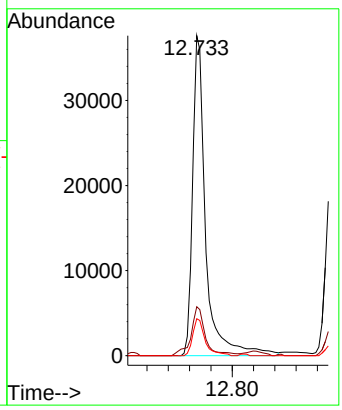




#77
Benzidine
Concen: 13.777 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

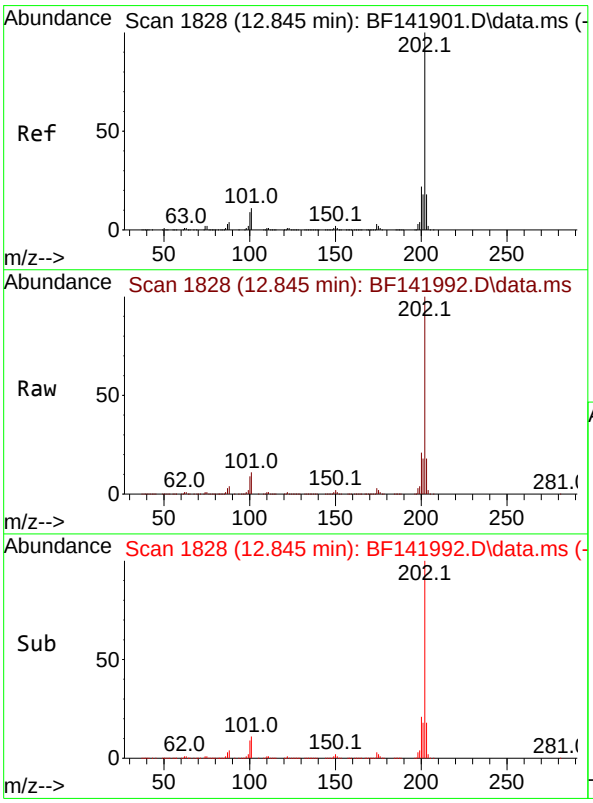
Tgt Ion:184 Resp: 6424

Ion	Ratio	Lower	Upper
184	100		
185	15.3	11.5	17.3
183	11.5	9.7	14.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

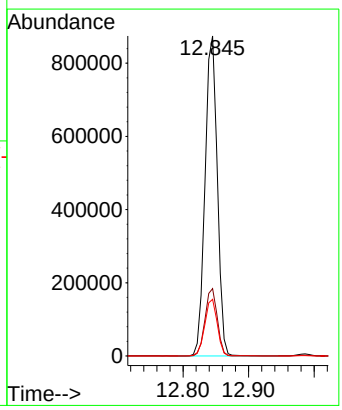
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

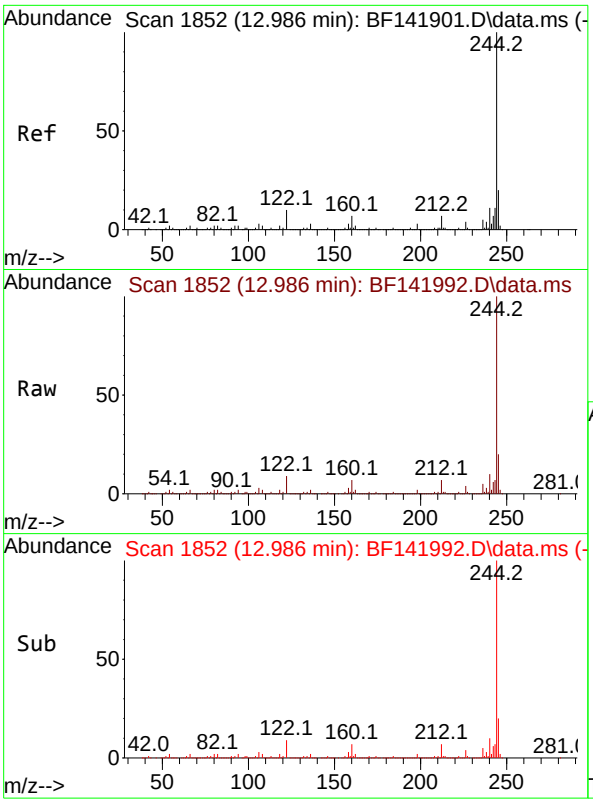


#78
Pyrene
Concen: 39.395 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:202 Resp: 1139056

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.3	25.9
203	17.7	14.4	21.6

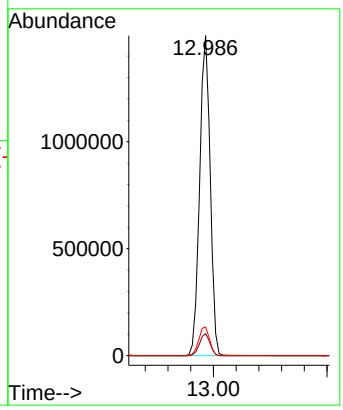




#79
Terphenyl-d14
Concen: 85.410 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:244 Resp: 193099

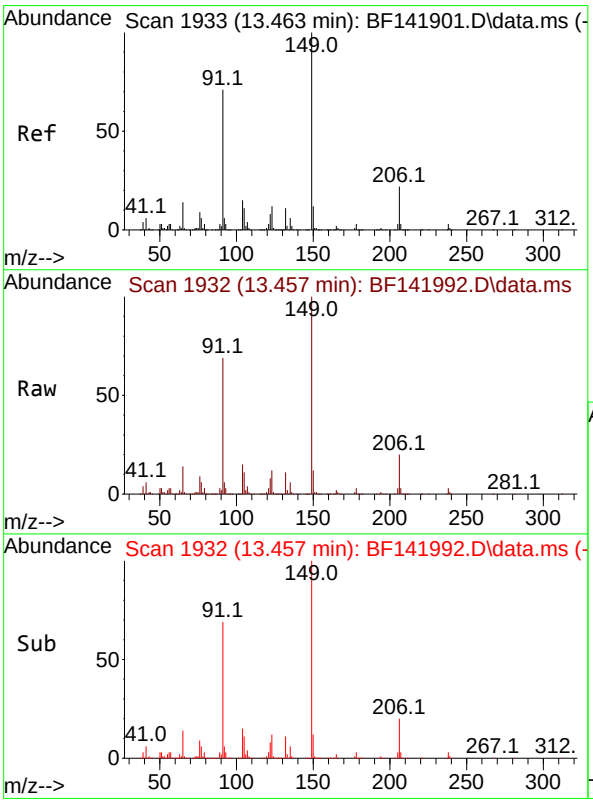
Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	8.9	7.7	11.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

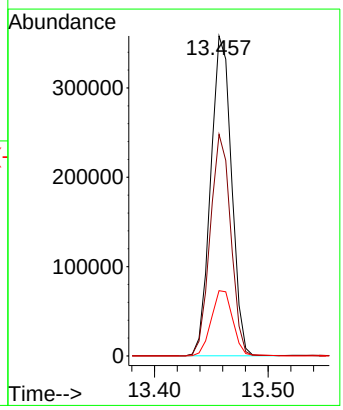
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

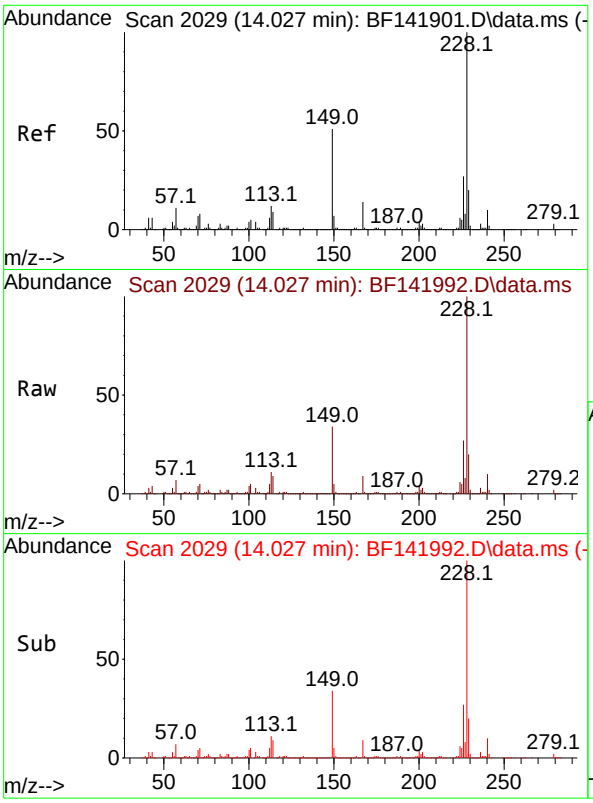


#80
Butylbenzylphthalate
Concen: 40.294 ng
RT: 13.457 min Scan# 1932
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:149 Resp: 456006

Ion	Ratio	Lower	Upper
149	100		
91	69.3	56.5	84.7
206	20.4	17.3	25.9

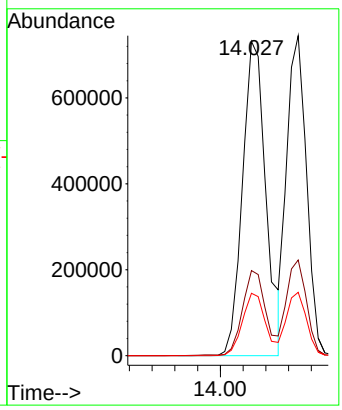




#81
Benzo(a)anthracene
Concen: 47.692 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:228 Resp: 104609

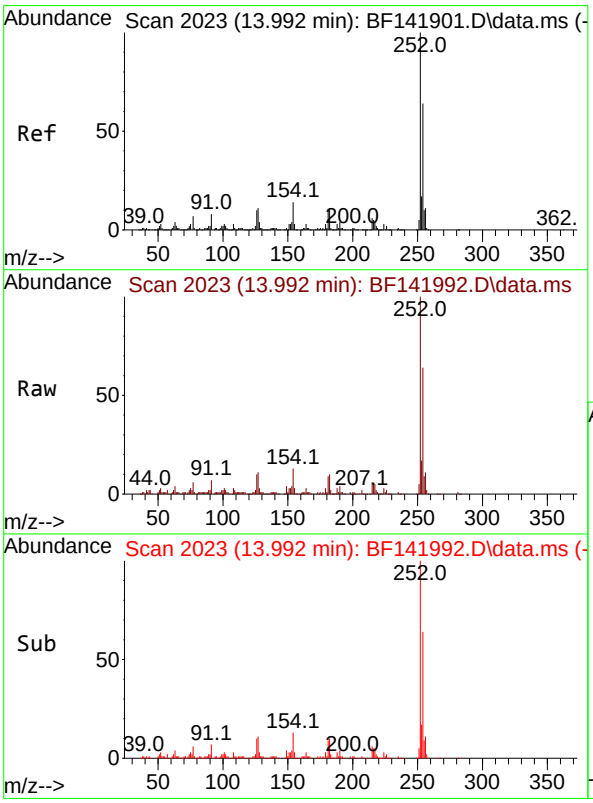
Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.9	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

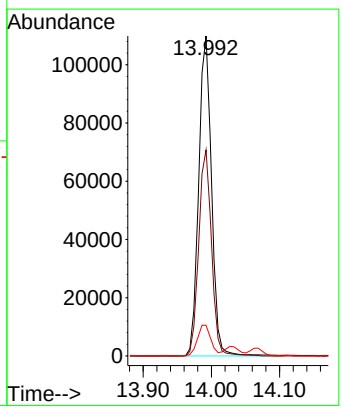
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

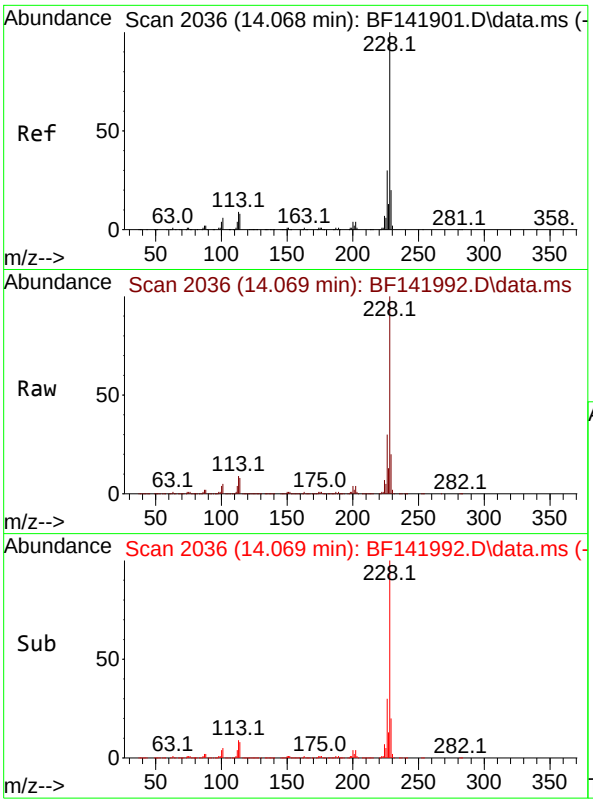


#82
3,3'-Dichlorobenzidine
Concen: 22.640 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:252 Resp: 143508

Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.0	76.6
126	9.6	8.4	12.6

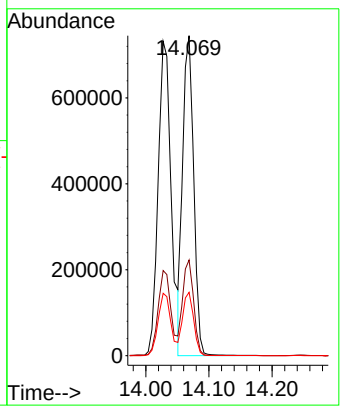




#83
Chrysene
Concen: 45.393 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:228 Resp: 90252

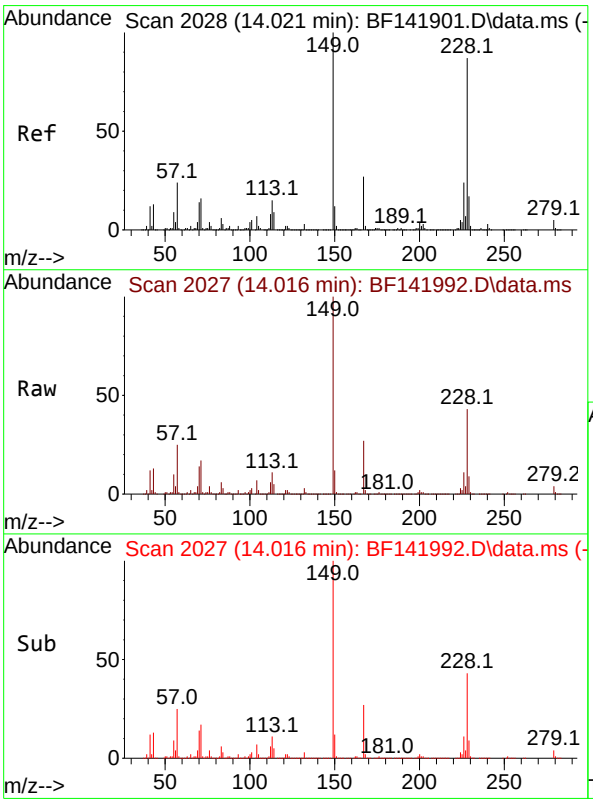
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.1	36.1
229	19.8	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

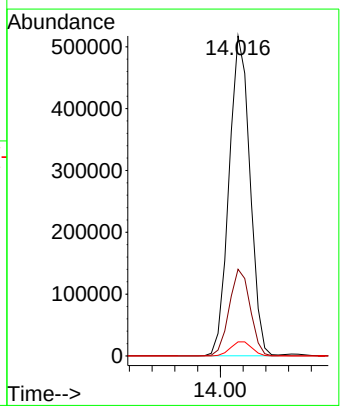
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

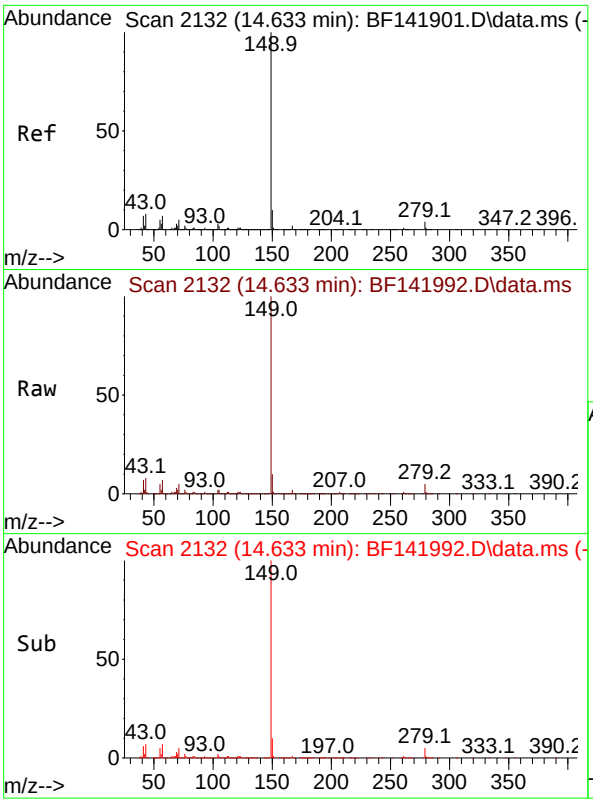


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.317 ng
RT: 14.016 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:149 Resp: 660288

Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.4	32.0
279	4.4	3.8	5.6

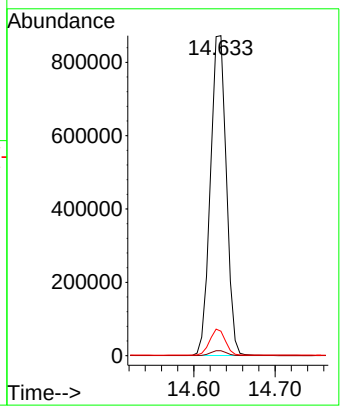




#85
Di-n-octyl phthalate
Concen: 54.798 ng
RT: 14.633 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:149 Resp: 118971

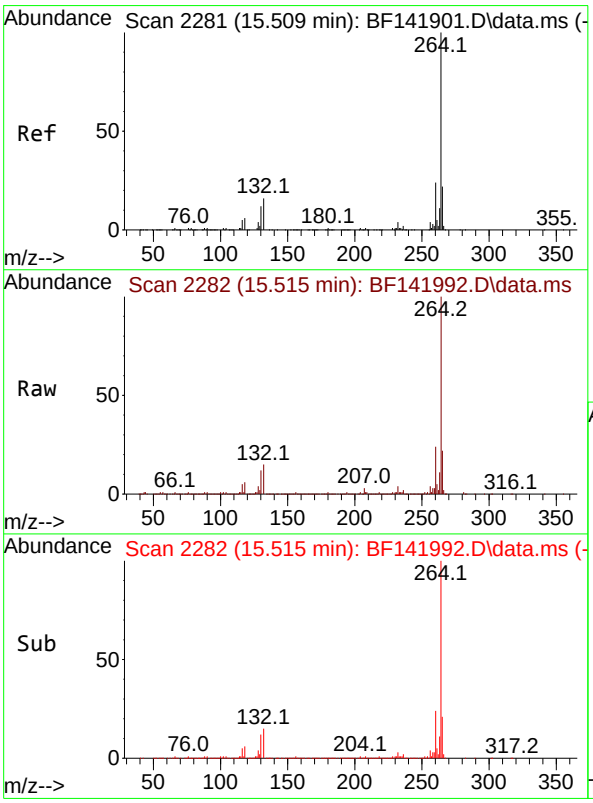
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.8	6.9	10.3



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations APPROVED

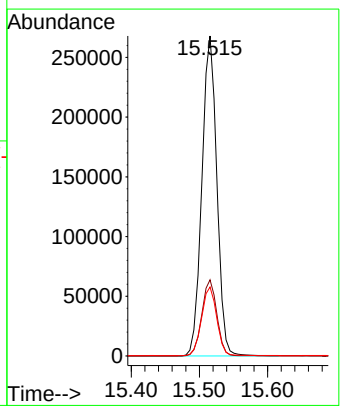
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

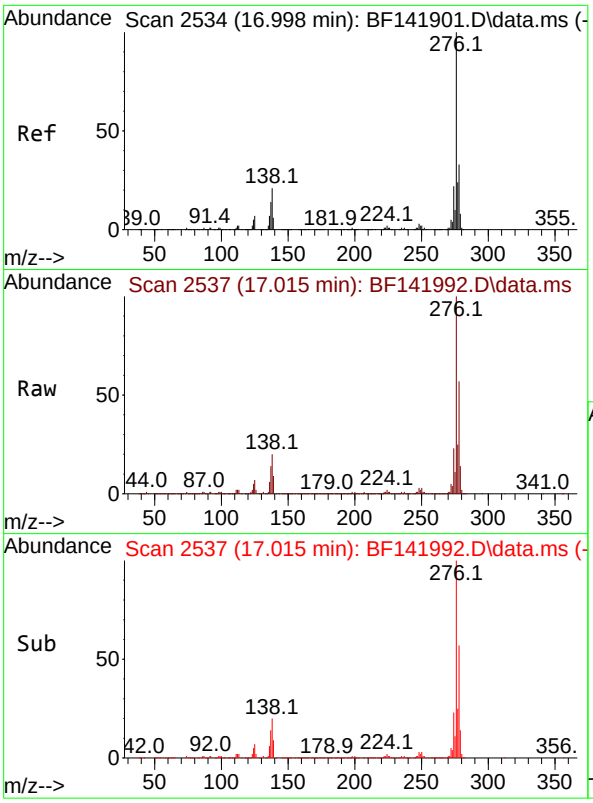


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:264 Resp: 409135

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.1	28.7
265	21.6	17.5	26.3

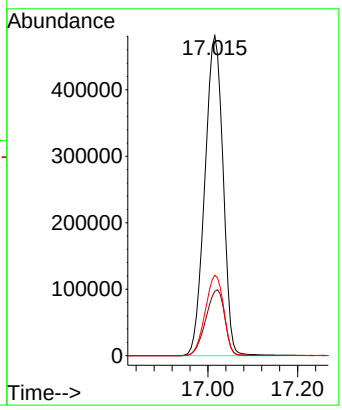




#87
Indeno(1,2,3-cd)pyrene
Concen: 51.205 ng
RT: 17.015 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

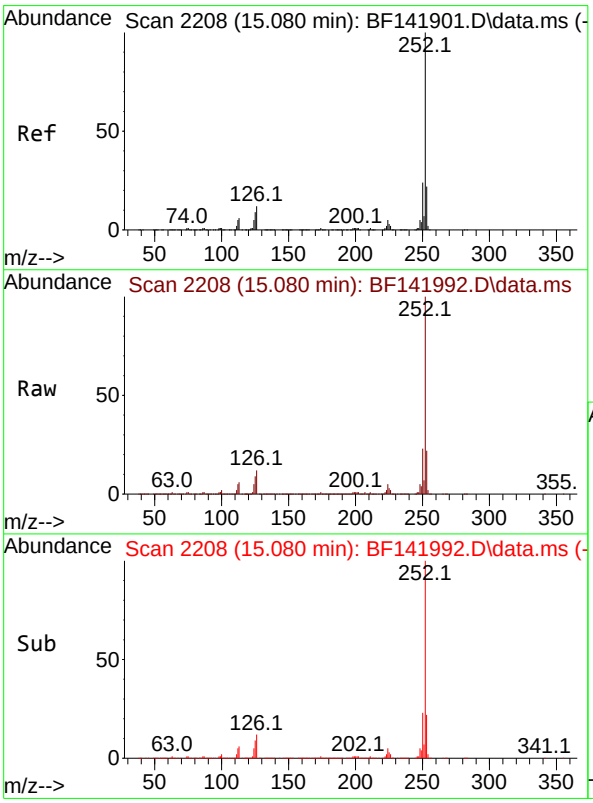
Tgt Ion:276 Resp: 135521

Ion	Ratio	Lower	Upper
276	100		
138	21.4	18.4	27.6
277	25.5	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

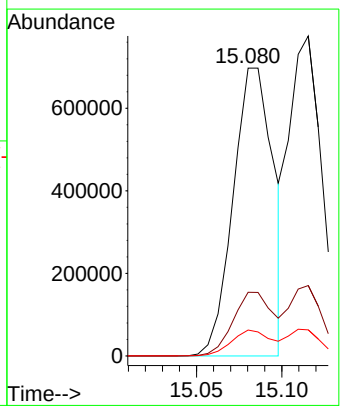
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

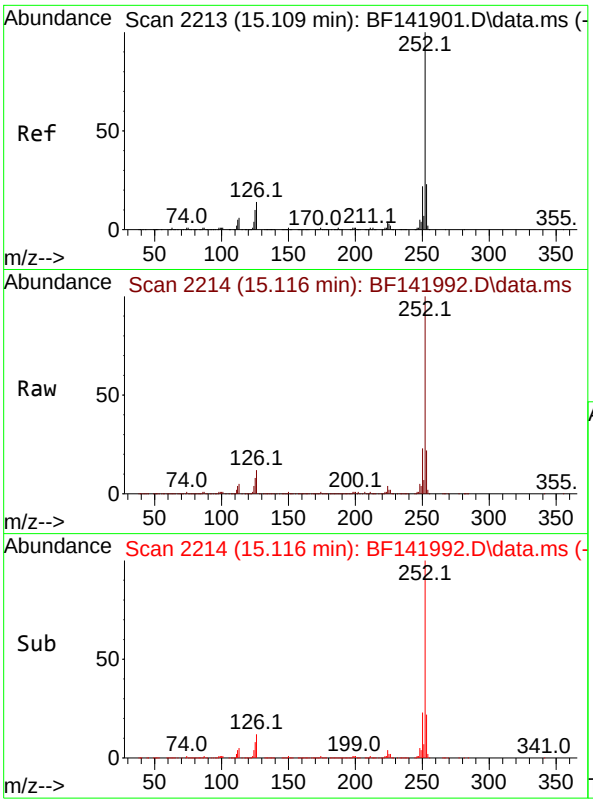


#88
Benzo(b)fluoranthene
Concen: 40.896 ng
RT: 15.080 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:252 Resp: 1146744

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.0	7.0	10.4

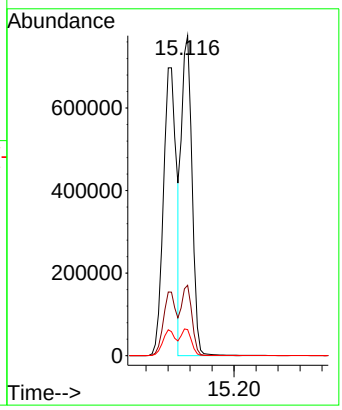




#89
Benzo(k)fluoranthene
Concen: 43.262 ng
RT: 15.116 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:252 Resp: 103811

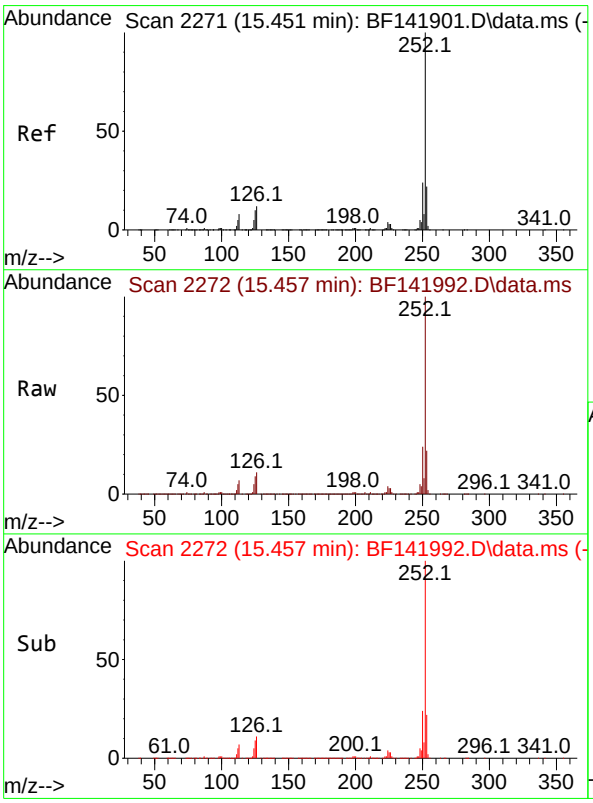
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	8.2	7.2	10.8



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Manual Integrations
APPROVED

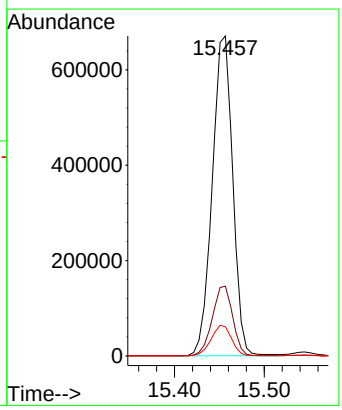
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

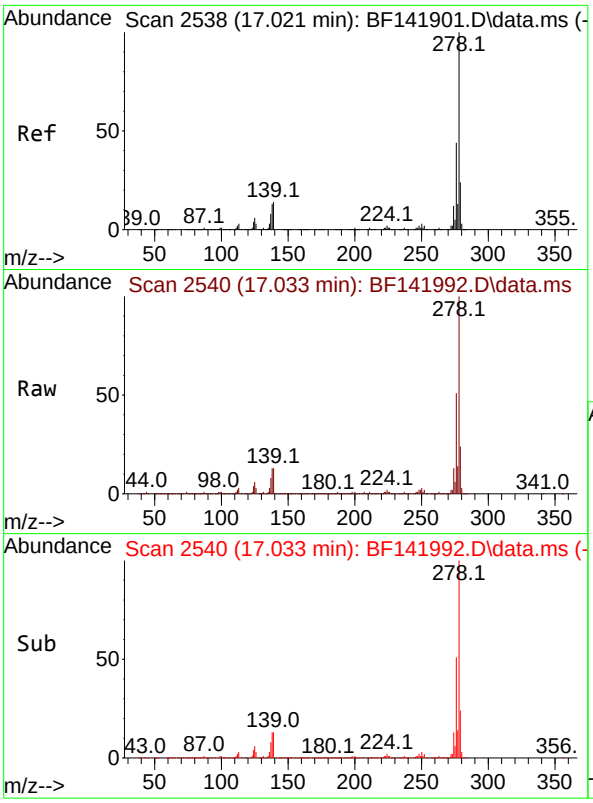


#90
Benzo(a)pyrene
Concen: 48.497 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:252 Resp: 1064045

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0
125	9.1	7.8	11.8

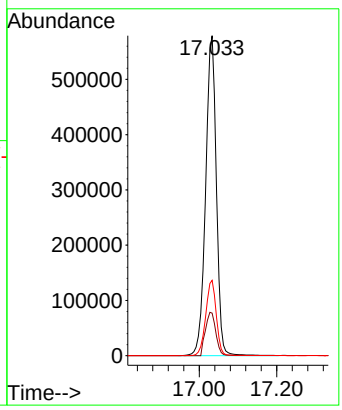




#91
Dibenzo(a,h)anthracene
Concen: 50.924 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

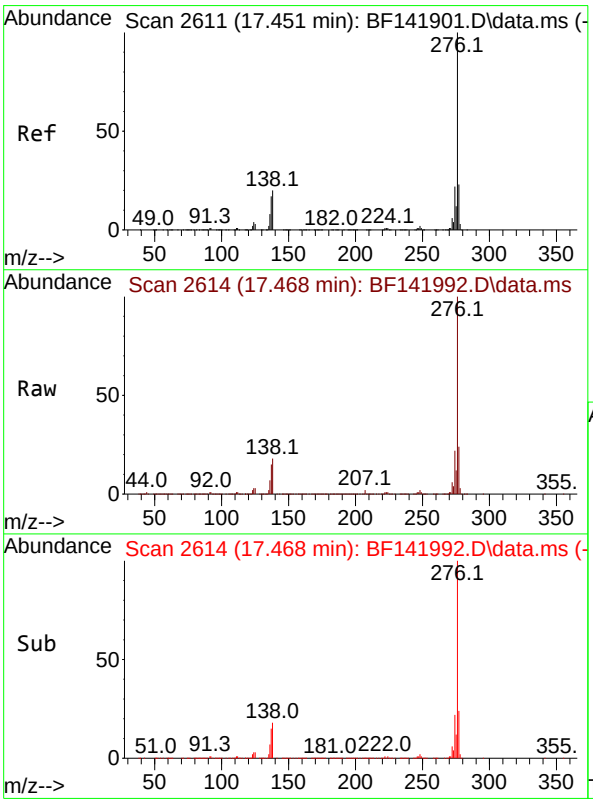
Tgt Ion:278 Resp: 111201

Ion	Ratio	Lower	Upper
278	100		
139	13.3	11.4	17.2
279	23.5	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

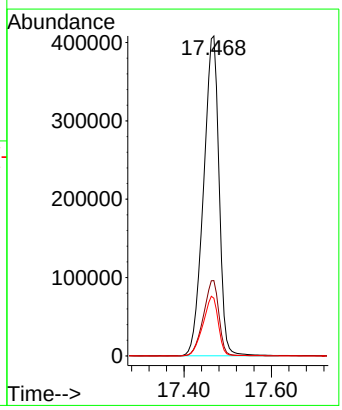
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025



#92
Benzo(g,h,i)perylene
Concen: 46.569 ng
RT: 17.468 min Scan# 2614
Delta R.T. 0.018 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:276 Resp: 1004916

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.7	28.1
138	18.0	15.8	23.8



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

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/13/25
Client Sample ID:	JC-03-03132025MSD	SDG No.:	Q1569
Lab Sample ID:	Q1568-04MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141993.D	1	03/17/25 10:15	03/18/25 13:31	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	320		12.8	40.0	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	430		5.30	40.0	50.0	ug/L
95-48-7	2-Methylphenol	430		11.2	40.0	50.0	ug/L
65794-96-9	3+4-Methylphenols	420		11.0	80.0	100	ug/L
67-72-1	Hexachloroethane	430		6.50	40.0	50.0	ug/L
98-95-3	Nitrobenzene	440		7.60	40.0	50.0	ug/L
87-68-3	Hexachlorobutadiene	450		5.40	40.0	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	460		5.10	40.0	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	470		6.20	40.0	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	470		12.2	40.0	50.0	ug/L
118-74-1	Hexachlorobenzene	500		5.20	40.0	50.0	ug/L
87-86-5	Pentachlorophenol	940	E	15.8	80.0	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	127		19 - 119		84%	SPK: 150
13127-88-3	Phenol-d6	112		10 - 130		75%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.7		44 - 120		97%	SPK: 100
321-60-8	2-Fluorobiphenyl	99.2		44 - 119		99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		43 - 140		96%	SPK: 150
1718-51-0	Terphenyl-d14	85.7		50 - 134		86%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	139000	6.881				
1146-65-2	Naphthalene-d8	535000	8.163				
15067-26-2	Acenaphthene-d10	299000	9.916				
1517-22-2	Phenanthrene-d10	470000	11.404				
1719-03-5	Chrysene-d12	321000	14.039				
1520-96-3	Perylene-d12	375000	15.516				

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/13/25
Client Sample ID:	JC-03-03132025MSD	SDG No.:	Q1569
Lab Sample ID:	Q1568-04MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141993.D	1	03/17/25 10:15	03/18/25 13:31	PB167168

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141993.D
Acq On : 18 Mar 2025 13:31
Operator : RC/JU
Sample : Q1568-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 18 14:02:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	138565	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	535417	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	298567	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	470466	20.000	ng		0.00
76) Chrysene-d12	14.039	240	320562	20.000	ng		0.00
86) Perylene-d12	15.516	264	374866	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	1051904	126.698	ng		0.02
7) Phenol-d6	6.510	99	1186613	112.253	ng		0.00
23) Nitrobenzene-d5	7.440	82	919626	96.659	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	547526	144.553	ng		0.00
45) 2-Fluorobiphenyl	9.234	172	1947912	99.221	ng		0.00
79) Terphenyl-d14	12.986	244	1857933	85.689	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.840	88	146493	42.111	ng	#	83
3) Pyridine	3.563	79	273215	32.018	ng		97
4) n-Nitrosodimethylamine	3.487	42	164232	40.375	ng		96
6) Aniline	6.546	93	135605	13.004	ng		99
8) 2-Chlorophenol	6.669	128	403907	43.864	ng		98
9) Benzaldehyde	6.434	77	60077	10.162	ng		97
10) Phenol	6.522	94	399017	35.880	ng		99
11) bis(2-Chloroethyl)ether	6.616	93	362129	43.366	ng		98
12) 1,3-Dichlorobenzene	6.822	146	428325	43.086	ng		99
13) 1,4-Dichlorobenzene	6.898	146	435945	43.342	ng		99
14) 1,2-Dichlorobenzene	7.051	146	417522	44.071	ng		98
15) Benzyl Alcohol	7.016	79	359681	42.088	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	400292	39.706	ng		98
17) 2-Methylphenol	7.128	107	315654	43.114	ng		99
18) Hexachloroethane	7.393	117	161459	42.807	ng		97
19) n-Nitroso-di-n-propyla...	7.293	70	275937	40.624	ng		99
20) 3+4-Methylphenols	7.281	107	394412	42.058	ng	#	83
22) Acetophenone	7.287	105	619784	48.338	ng		98
24) Nitrobenzene	7.463	77	417210	44.111	ng		98
25) Isophorone	7.698	82	758880	45.124	ng		99
26) 2-Nitrophenol	7.775	139	216360	46.608	ng		99
27) 2,4-Dimethylphenol	7.810	122	349454	54.671	ng		99
28) bis(2-Chloroethoxy)met...	7.904	93	463580	43.949	ng		99
29) 2,4-Dichlorophenol	8.016	162	355926	44.861	ng		99
30) 1,2,4-Trichlorobenzene	8.098	180	386209	44.171	ng		99
31) Naphthalene	8.181	128	1188930	43.228	ng		100
32) Benzoic acid	7.922	122	271645m	48.346	ng		
33) 4-Chloroaniline	8.228	127	52746	5.433	ng		98
34) Hexachlorobutadiene	8.298	225	257669	45.189	ng		100
35) Caprolactam	8.592	113	91819m	37.960	ng		
36) 4-Chloro-3-methylphenol	8.710	107	379366	42.865	ng		98
37) 2-Methylnaphthalene	8.875	142	784913	42.696	ng		99
38) 1-Methylnaphthalene	8.969	142	760948	42.894	ng		99
40) 1,2,4,5-Tetrachloroben...	9.039	216	466352	51.303	ng		99
41) Hexachlorocyclopentadiene	9.028	237	552351	155.263	ng		100
43) 2,4,6-Trichlorophenol	9.151	196	271244	45.658	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141993.D
Acq On : 18 Mar 2025 13:31
Operator : RC/JU
Sample : Q1568-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 18 14:02:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	281314	46.754	ng		98
46) 1,1'-Biphenyl	9.334	154	1147658	50.590	ng		100
47) 2-Chloronaphthalene	9.363	162	776730	45.937	ng		99
48) 2-Nitroaniline	9.457	65	217153	44.355	ng		96
49) Acenaphthylene	9.781	152	1197410	47.721	ng		99
50) Dimethylphthalate	9.634	163	924934	44.238	ng		100
51) 2,6-Dinitrotoluene	9.698	165	198413	45.578	ng		93
52) Acenaphthene	9.951	154	893147	50.651	ng		99
53) 3-Nitroaniline	9.863	138	53697	12.160	ng		97
54) 2,4-Dinitrophenol	9.975	184	231559	92.501	ng	#	45
55) Dibenzofuran	10.122	168	1090329	43.274	ng		99
56) 4-Nitrophenol	10.022	139	263665	79.177	ng		97
57) 2,4-Dinitrotoluene	10.098	165	267316	47.015	ng		99
58) Fluorene	10.463	166	861532	44.339	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	242183	44.233	ng		98
60) Diethylphthalate	10.334	149	894203	42.892	ng		99
61) 4-Chlorophenyl-phenyle...	10.457	204	454829	44.899	ng		97
62) 4-Nitroaniline	10.481	138	162752	37.858	ng		98
63) Azobenzene	10.616	77	807900	41.682	ng		98
65) 4,6-Dinitro-2-methylph...	10.510	198	139678	49.802	ng		95
66) n-Nitrosodiphenylamine	10.575	169	729426	47.911	ng		100
67) 4-Bromophenyl-phenylether	10.945	248	283205	47.932	ng		99
68) Hexachlorobenzene	11.010	284	324295	50.043	ng		98
69) Atrazine	11.098	200	264785	56.733	ng		99
70) Pentachlorophenol	11.204	266	376512	94.300	ng		100
71) Phenanthrene	11.428	178	1184936	46.630	ng		99
72) Anthracene	11.480	178	1202057	47.150	ng		100
73) Carbazole	11.633	167	944218	42.945	ng		99
74) Di-n-butylphthalate	11.963	149	1246779	42.737	ng		99
75) Fluoranthene	12.616	202	1106426	41.046	ng		99
77) Benzidine	12.733	184	68935	15.413	ng		99
78) Pyrene	12.845	202	1093026	39.418	ng		99
80) Butylbenzylphthalate	13.457	149	433069	39.902	ng		99
81) Benzo(a)anthracene	14.027	228	1010312	48.029	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	136983	22.534	ng		99
83) Chrysene	14.069	228	864000	45.312	ng		100
84) Bis(2-ethylhexyl)phtha...	14.016	149	624421	41.728	ng		99
85) Di-n-octyl phthalate	14.627	149	1106352	53.136	ng		98
87) Indeno(1,2,3-cd)pyrene	17.010	276	1247538	51.446	ng		98
88) Benzo(b)fluoranthene	15.080	252	1074570	41.826	ng		100
89) Benzo(k)fluoranthene	15.116	252	939725	42.742	ng		99
90) Benzo(a)pyrene	15.451	252	967379	48.122	ng		100
91) Dibenzo(a,h)anthracene	17.027	278	1013729	50.667	ng		99
92) Benzo(g,h,i)perylene	17.462	276	927863	46.929	ng		97

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

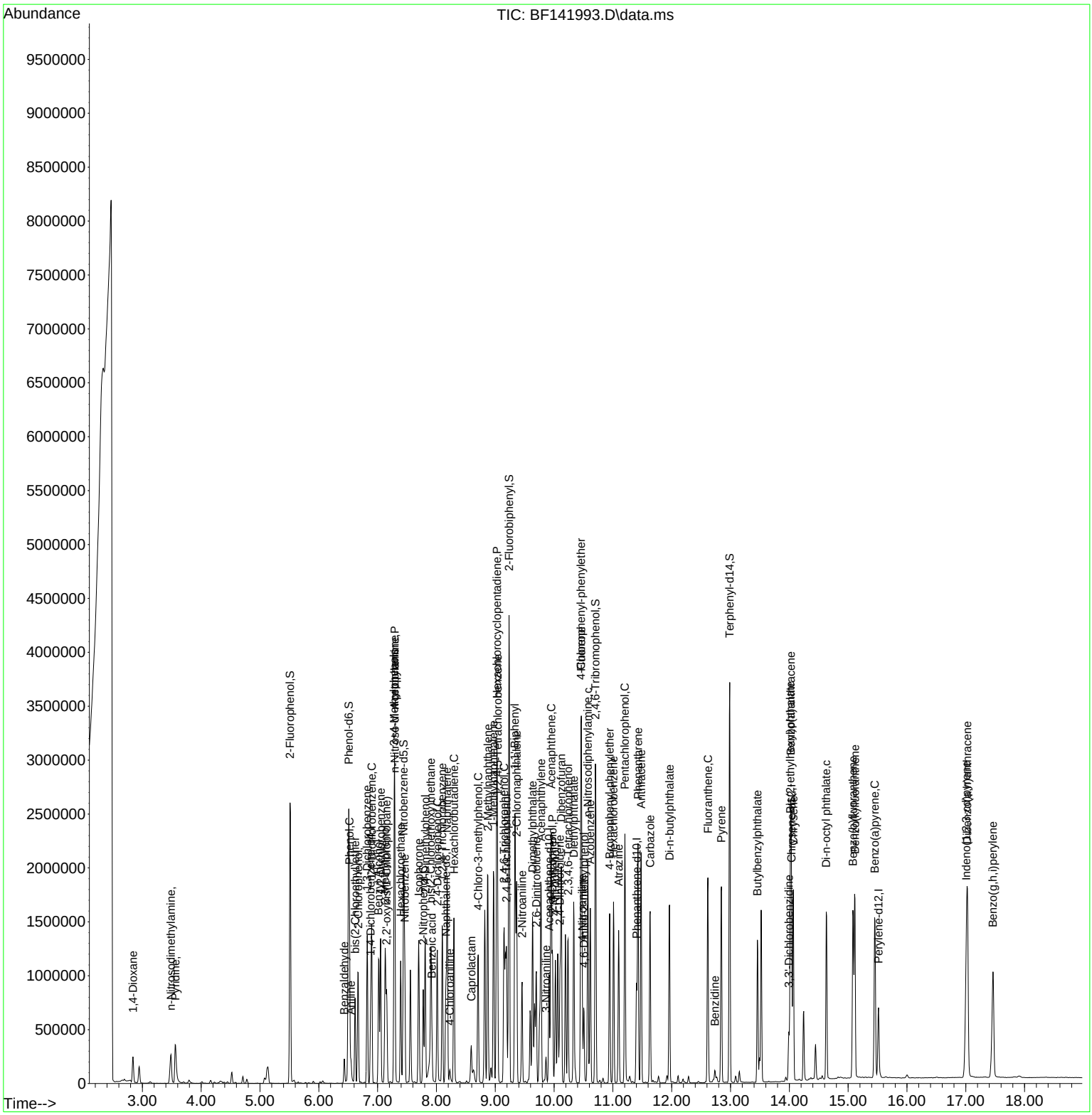
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141993.D
Acq On : 18 Mar 2025 13:31
Operator : RC/JU
Sample : Q1568-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

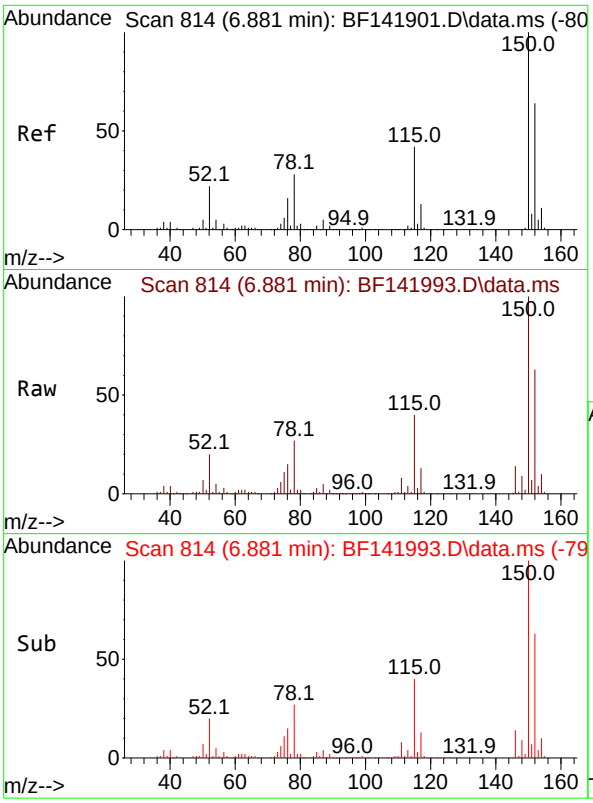
Quant Time: Mar 18 14:02:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

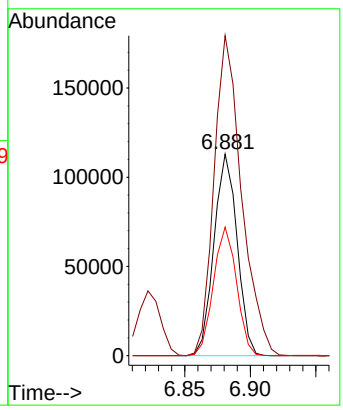




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:152 Resp: 13856

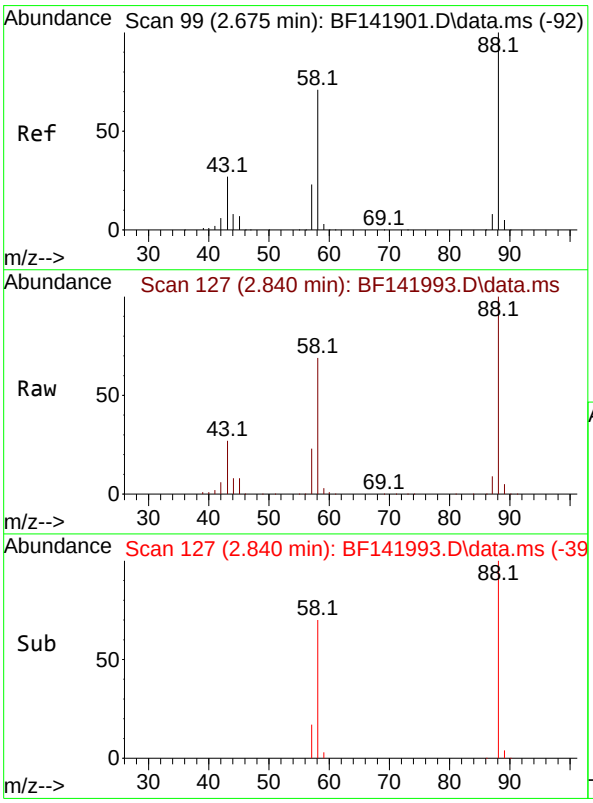
Ion	Ratio	Lower	Upper
152	100		
150	158.7	127.4	191.2
115	63.7	51.9	77.9



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

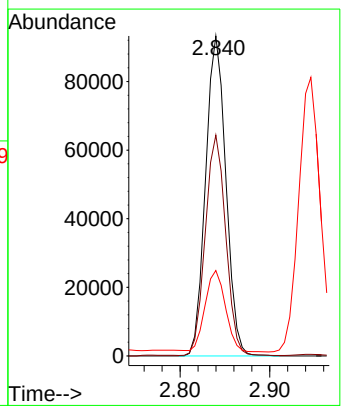
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

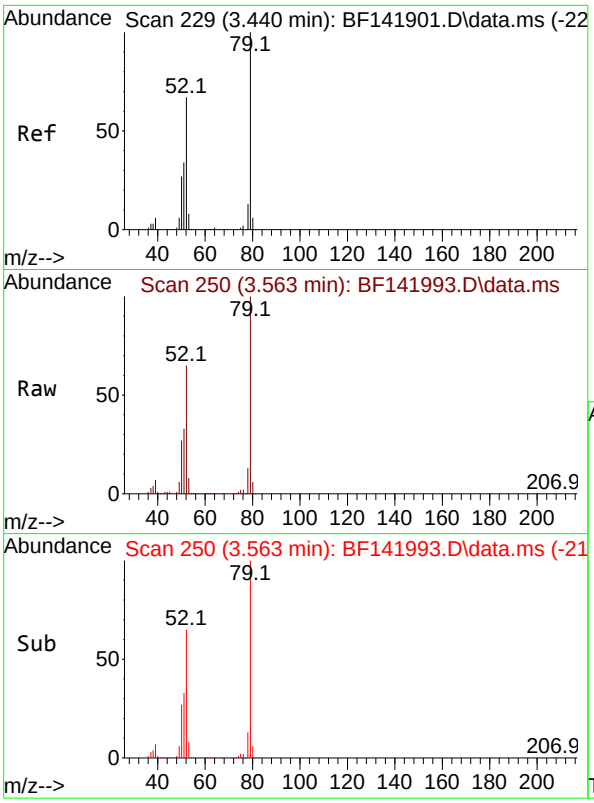


#2
1,4-Dioxane
Concen: 42.111 ng
RT: 2.840 min Scan# 127
Delta R.T. 0.165 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 88 Resp: 146493

Ion	Ratio	Lower	Upper
88	100		
58	69.1	57.4	86.2
43	0.0	21.5	32.3#

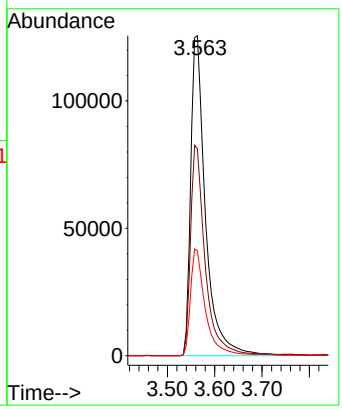




#3
Pyridine
Concen: 32.018 ng
RT: 3.563 min Scan# 2
Delta R.T. 0.124 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 79 Resp: 27321

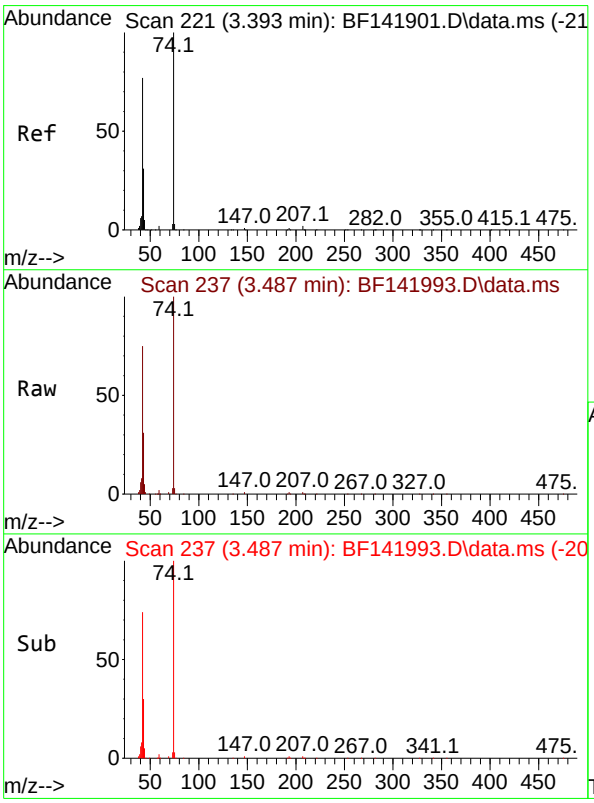
Ion	Ratio	Lower	Upper
79	100		
52	64.6	53.3	79.9
51	32.7	27.6	41.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

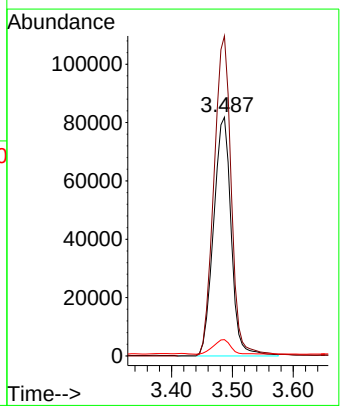
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

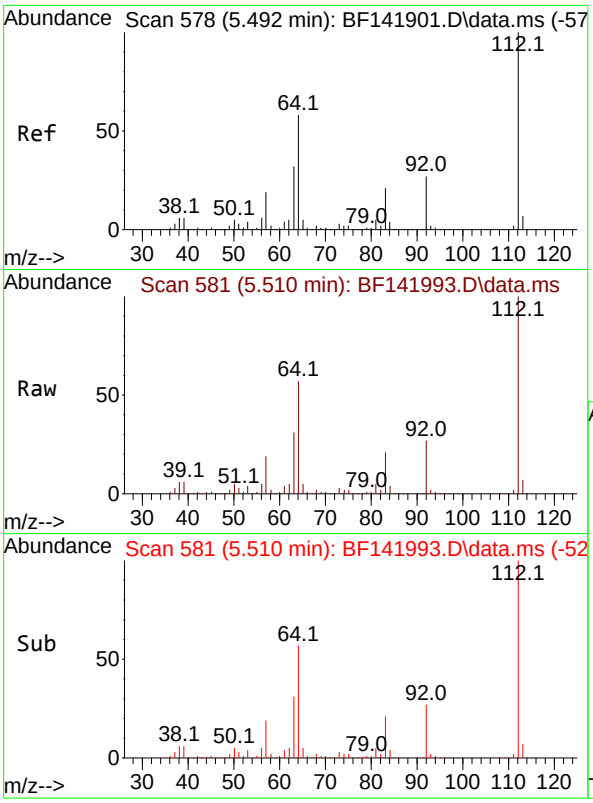


#4
n-Nitrosodimethylamine
Concen: 40.375 ng
RT: 3.487 min Scan# 237
Delta R.T. 0.094 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 42 Resp: 164232

Ion	Ratio	Lower	Upper
42	100		
74	134.0	103.4	155.0
44	6.9	5.0	7.4

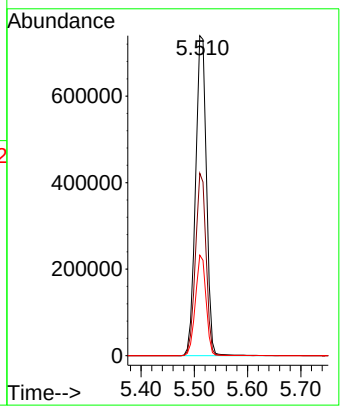




#5
2-Fluorophenol
Concen: 126.698 ng
RT: 5.510 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:112 Resp: 105190

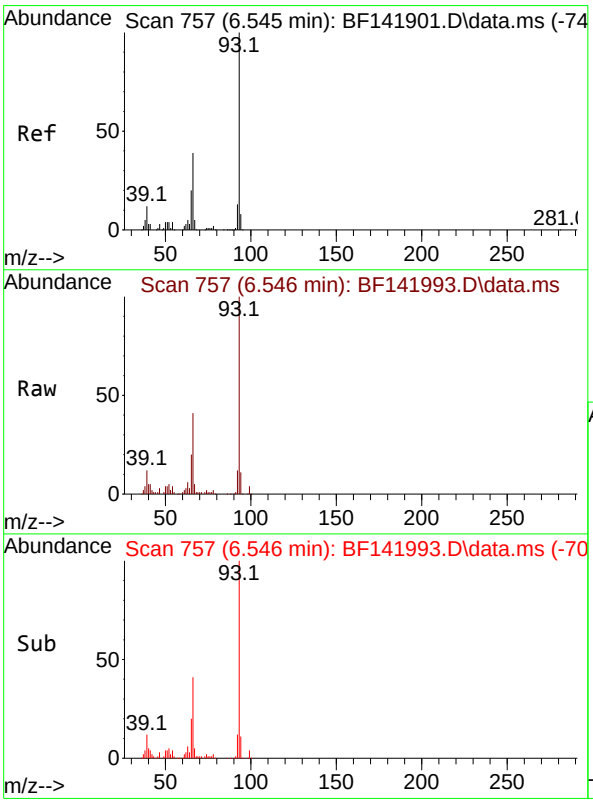
Ion	Ratio	Lower	Upper
112	100		
64	57.0	46.5	69.7
63	31.4	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

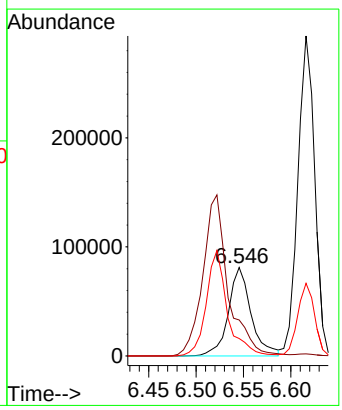
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

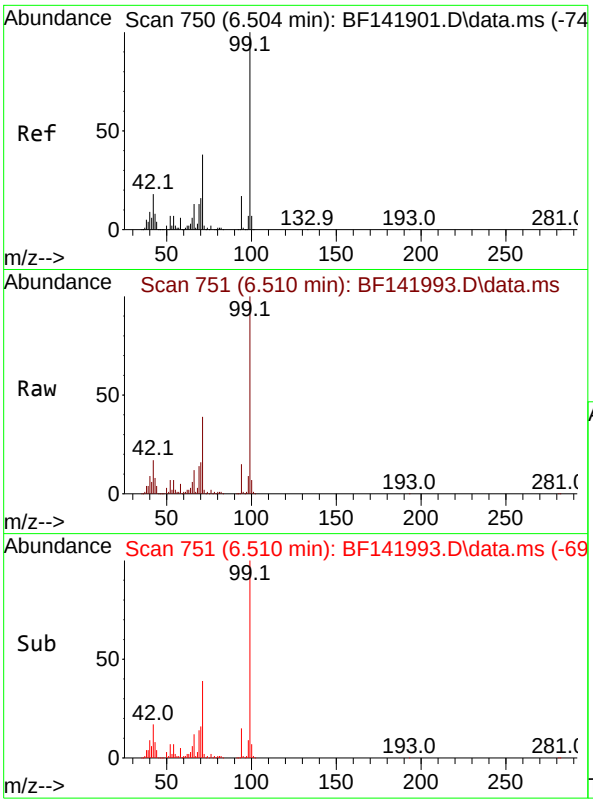


#6
Aniline
Concen: 13.004 ng
RT: 6.546 min Scan# 757
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 93 Resp: 135605

Ion	Ratio	Lower	Upper
93	100		
66	40.8	31.9	47.9
65	19.7	15.8	23.6

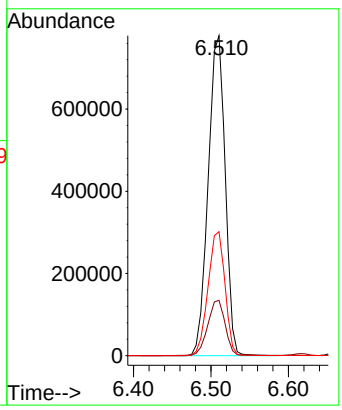




#7
Phenol-d6
Concen: 112.253 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 99 Resp: 118661

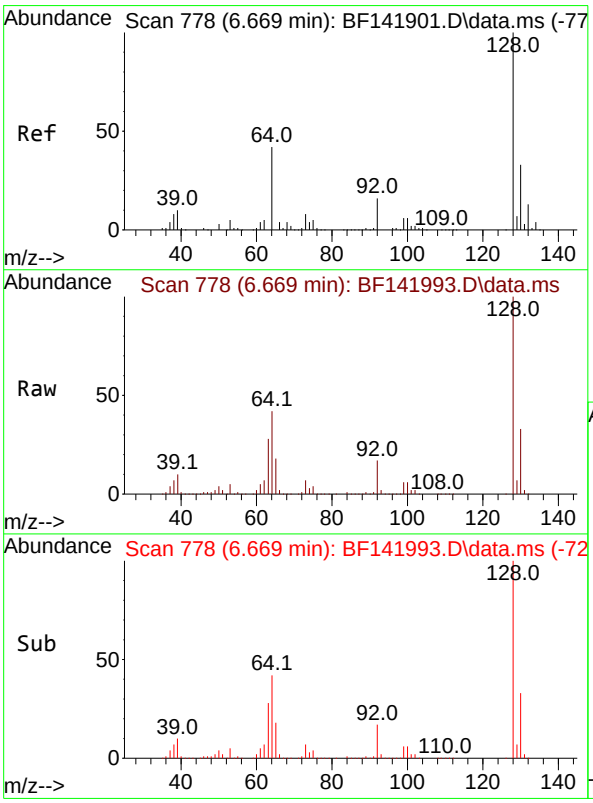
Ion	Ratio	Lower	Upper
99	100		
42	17.3	14.6	21.8
71	38.8	30.8	46.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

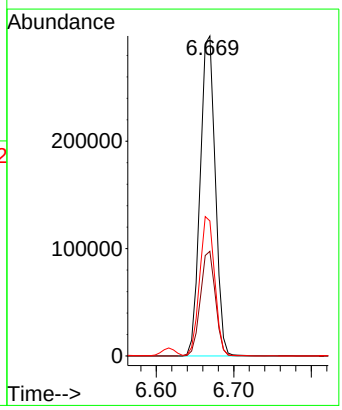
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

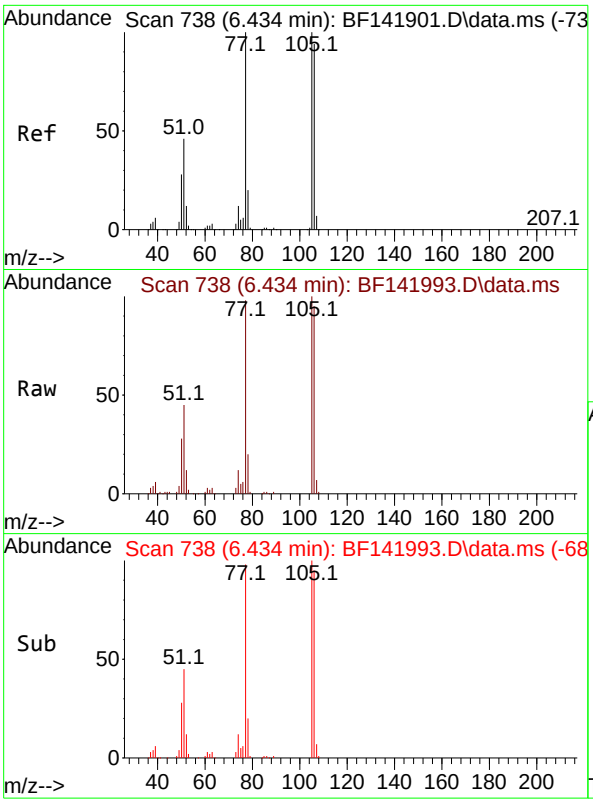


#8
2-Chlorophenol
Concen: 43.864 ng
RT: 6.669 min Scan# 778
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:128 Resp: 403907

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.8	52.8
64	42.2	24.4	64.4

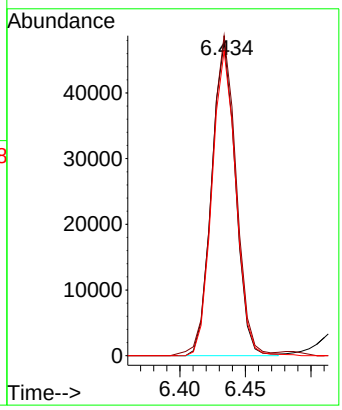




#9
Benzaldehyde
Concen: 10.162 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 77 Resp: 6007

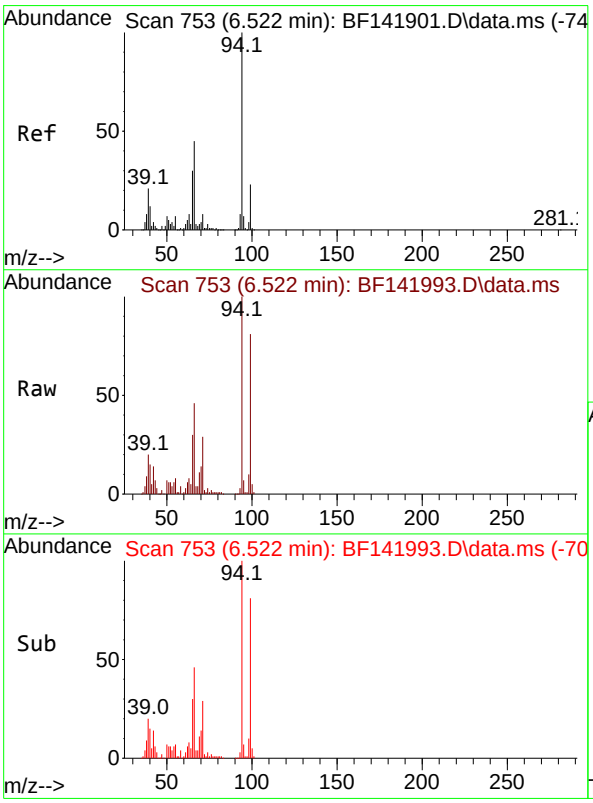
Ion	Ratio	Lower	Upper
77	100		
105	102.2	80.0	120.0
106	97.3	74.5	114.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

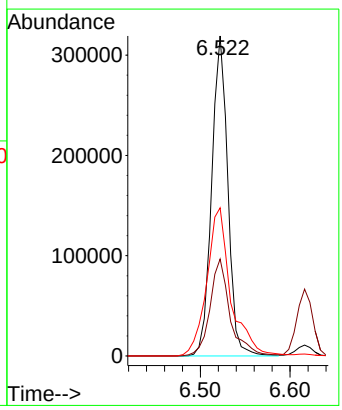
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

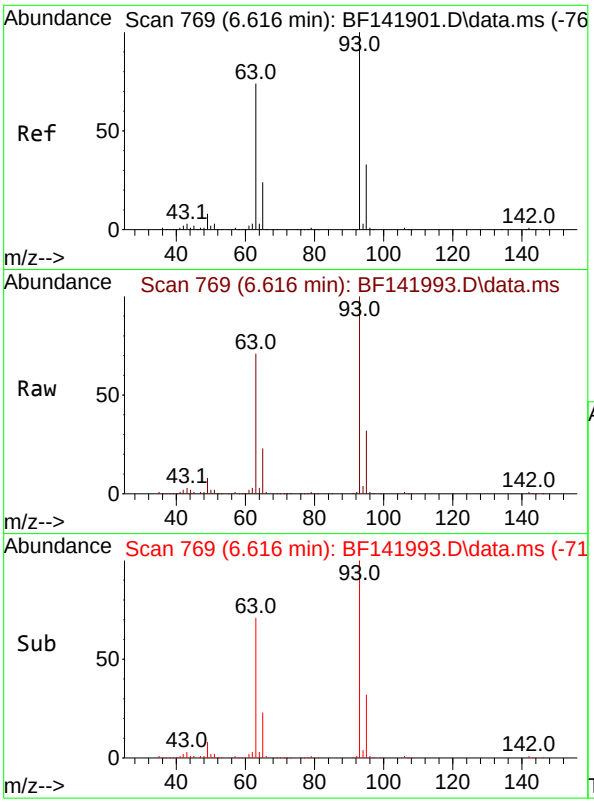


#10
Phenol
Concen: 35.880 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 94 Resp: 399017

Ion	Ratio	Lower	Upper
94	100		
65	30.3	10.5	50.5
66	46.3	25.8	65.8

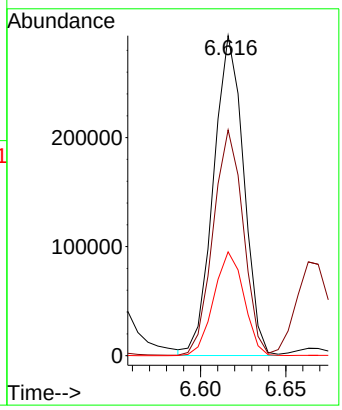




#11
bis(2-Chloroethyl)ether
Concen: 43.366 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 93 Resp: 36212

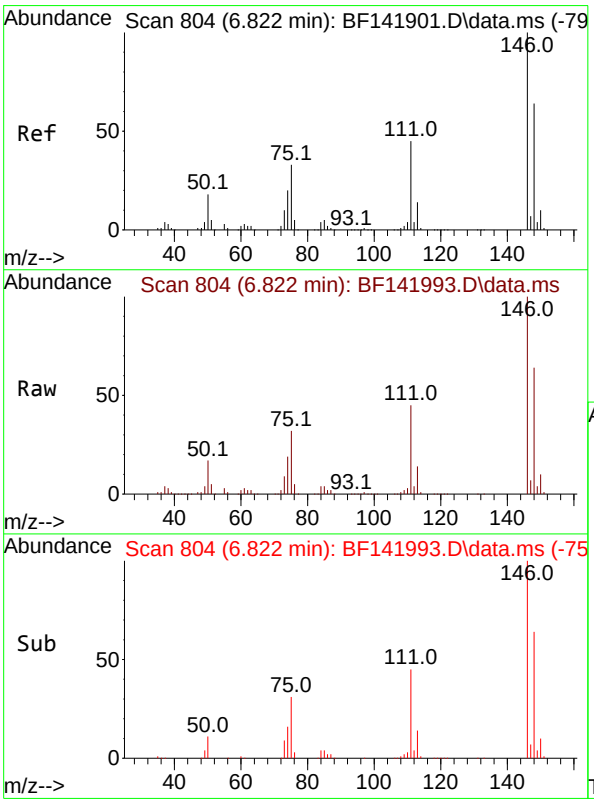
Ion	Ratio	Lower	Upper
93	100		
63	70.6	53.0	93.0
95	32.5	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

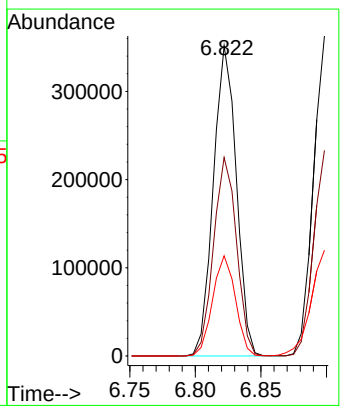
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

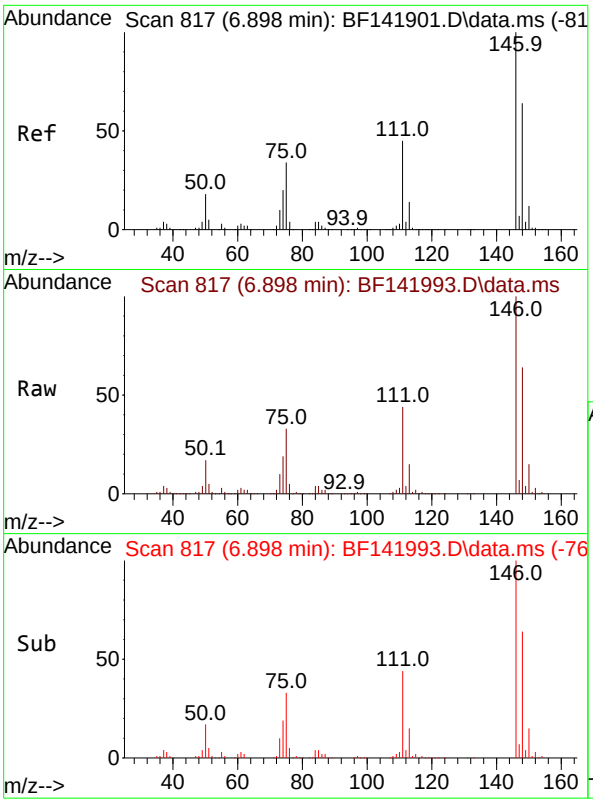


#12
1,3-Dichlorobenzene
Concen: 43.086 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:146 Resp: 428325

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.3	76.9
75	32.3	26.6	40.0

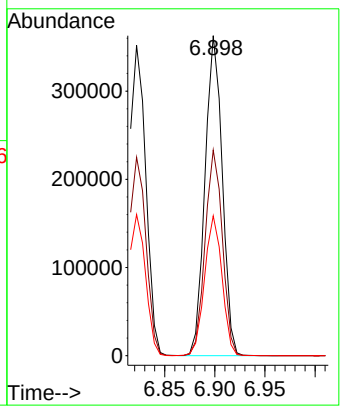




#13
1,4-Dichlorobenzene
Concen: 43.342 ng
RT: 6.898 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:146 Resp: 43594

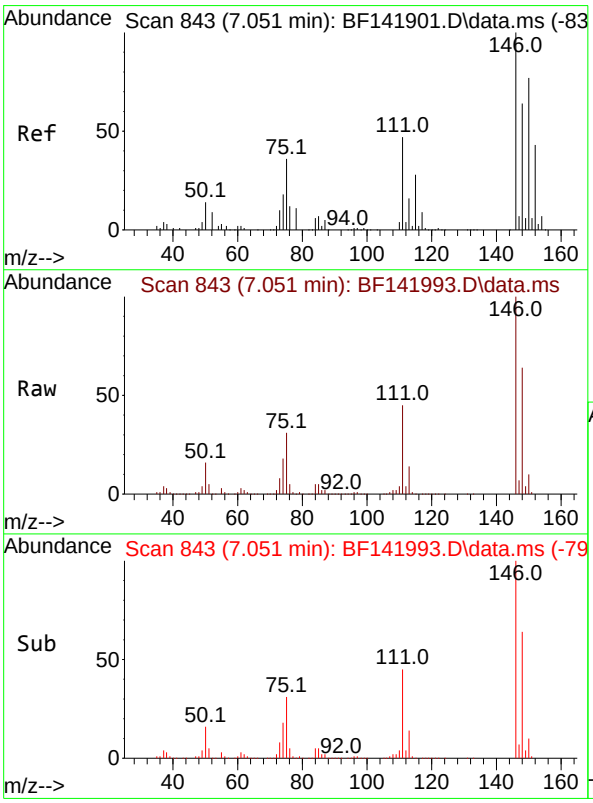
Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.0	76.6
111	43.7	35.7	53.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

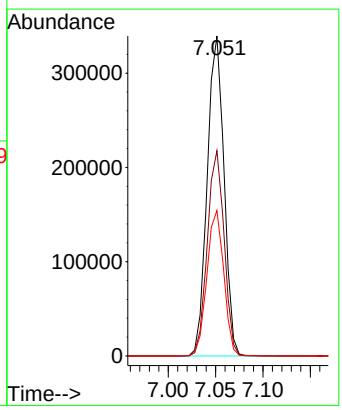
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

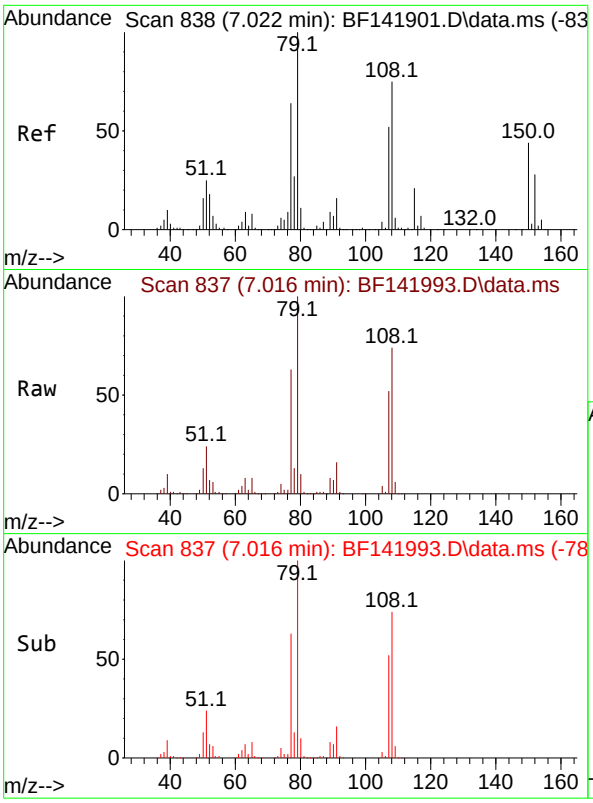


#14
1,2-Dichlorobenzene
Concen: 44.071 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:146 Resp: 417522

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.8	76.2
111	45.5	38.0	57.0





#15
Benzyl Alcohol
Concen: 42.088 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

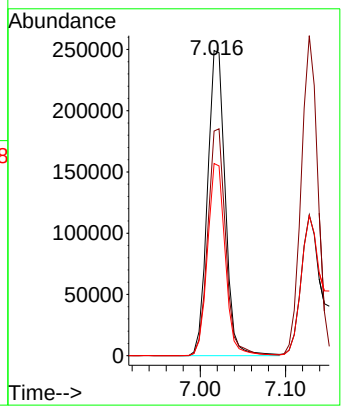
Tgt Ion: 79 Resp: 35968

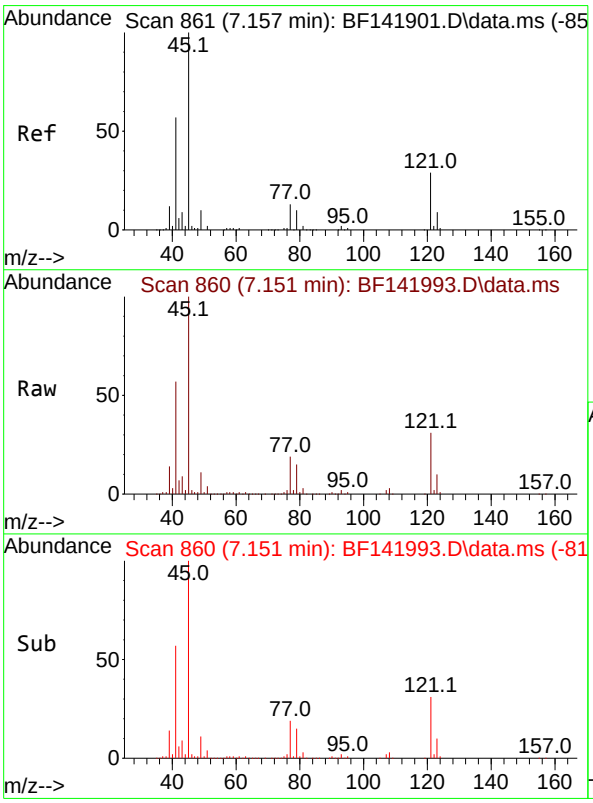
Ion	Ratio	Lower	Upper
79	100		
108	73.6	59.7	89.5
77	63.0	51.0	76.6

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

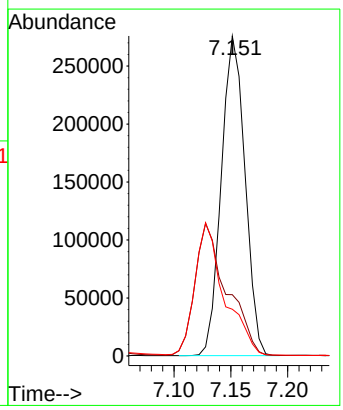


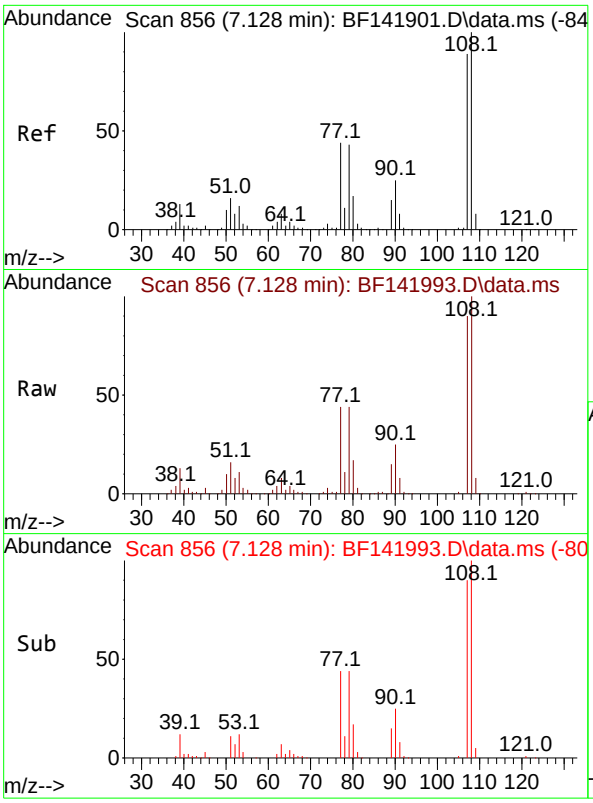


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.706 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 45 Resp: 400292

Ion	Ratio	Lower	Upper
45	100		
77	19.2	0.0	37.8
79	14.6	0.0	34.2

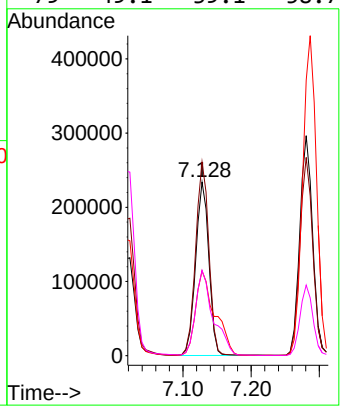




#17
2-Methylphenol
Concen: 43.114 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:107 Resp: 31565

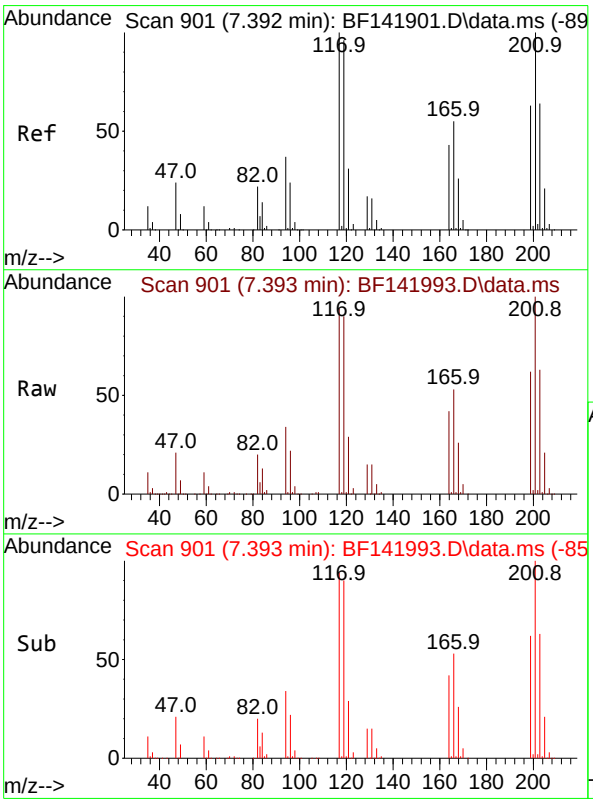
Ion	Ratio	Lower	Upper
107	100		
108	111.7	90.2	135.2
77	48.9	39.6	59.4
79	49.1	39.1	58.7



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

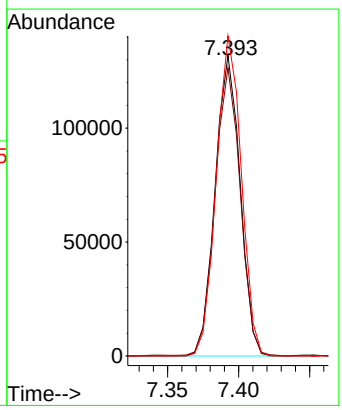
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

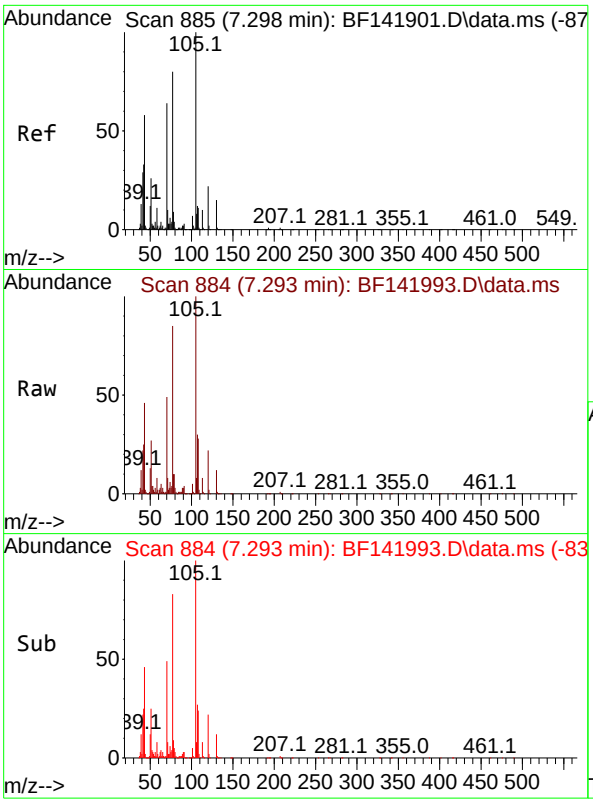


#18
Hexachloroethane
Concen: 42.807 ng
RT: 7.393 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:117 Resp: 161459

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.9	115.3
201	106.5	79.9	119.9

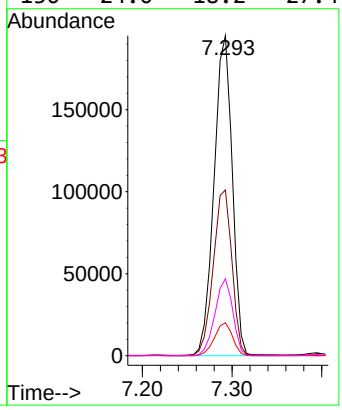




#19
n-Nitroso-di-n-propylamine
Concen: 40.624 ng
RT: 7.293 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

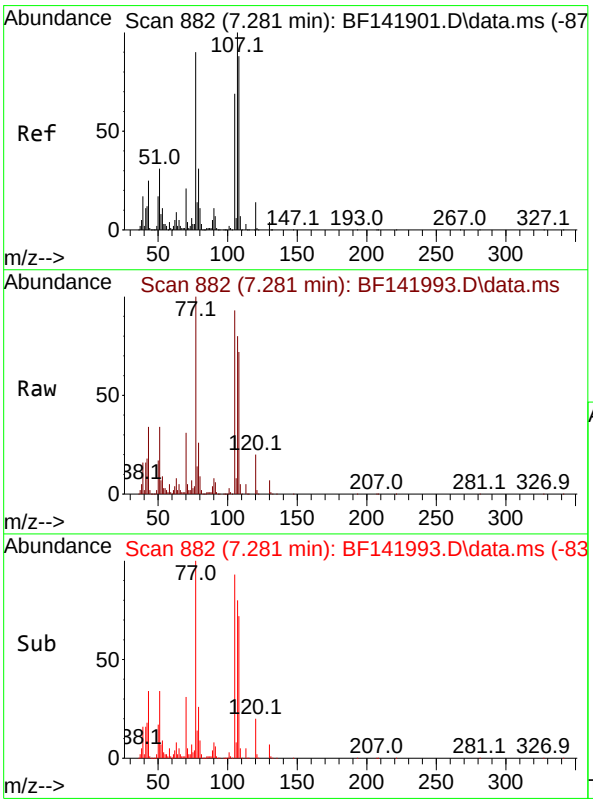
Tgt Ion: 70 Resp: 27593

Ion	Ratio	Lower	Upper
70	100		
42	51.8	41.4	62.0
101	10.3	8.2	12.2
130	24.0	18.2	27.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

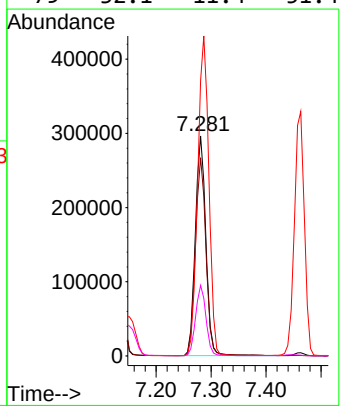
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

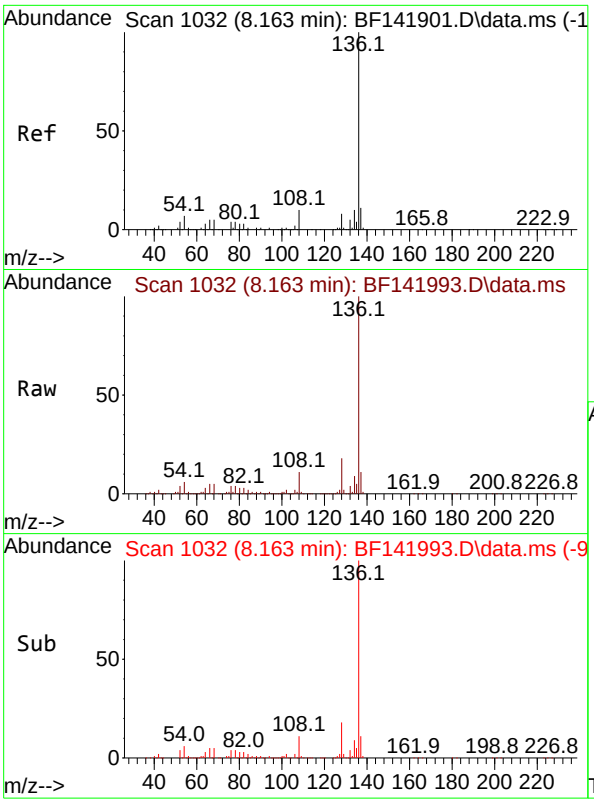


#20
3+4-Methylphenols
Concen: 42.058 ng
RT: 7.281 min Scan# 882
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:107 Resp: 394412

Ion	Ratio	Lower	Upper
107	100		
108	90.1	68.4	108.4
77	125.2	69.7	109.7#
79	32.1	11.4	51.4

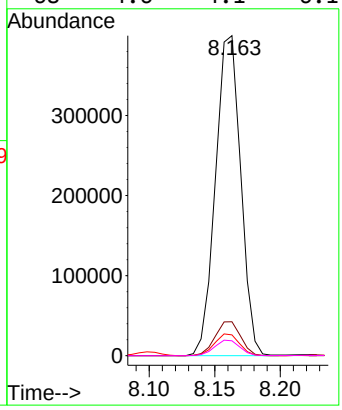




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:136 Resp: 53541

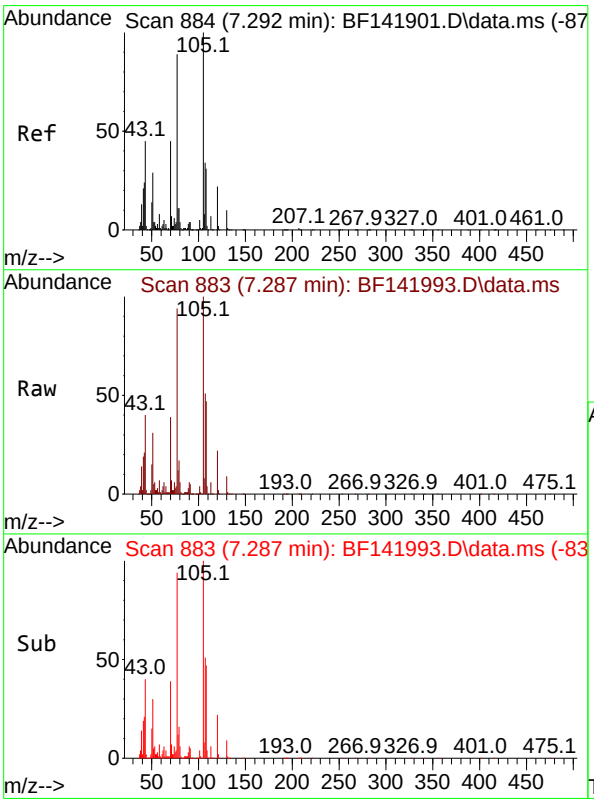
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.5	5.8	8.8
68	4.6	4.1	6.1



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

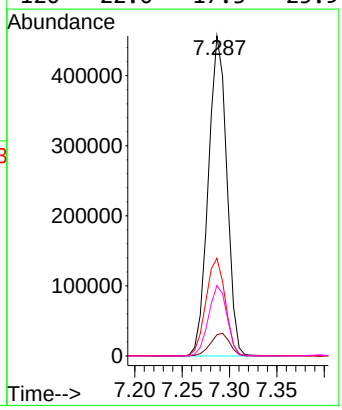
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

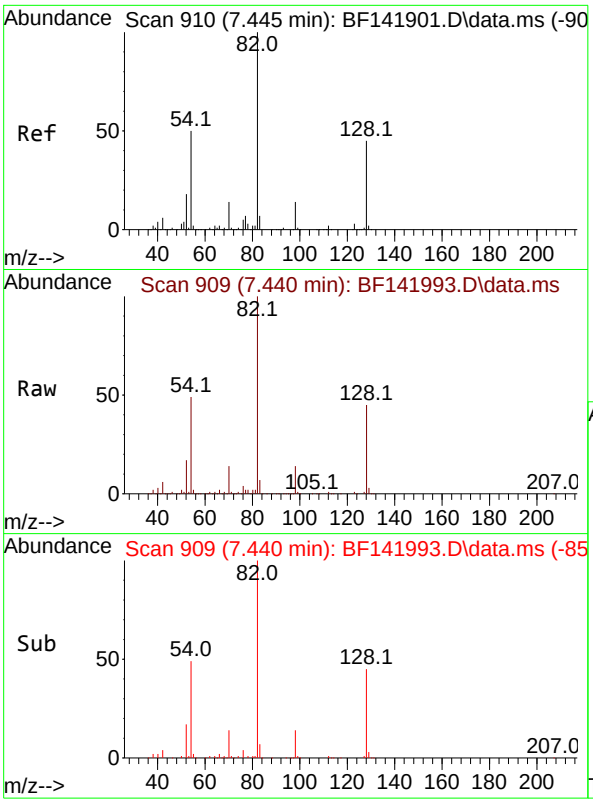


#22
Acetophenone
Concen: 48.338 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:105 Resp: 619784

Ion	Ratio	Lower	Upper
105	100		
71	6.6	5.8	8.8
51	30.5	23.4	35.0
120	22.0	17.3	25.9

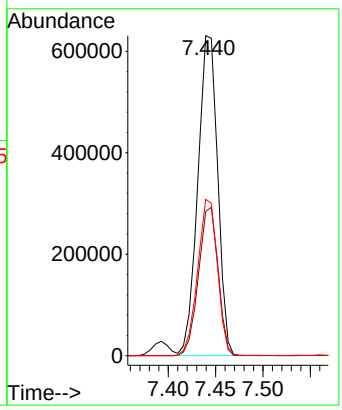




#23
Nitrobenzene-d5
Concen: 96.659 ng
RT: 7.440 min Scan# 9(
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 82 Resp: 91962(

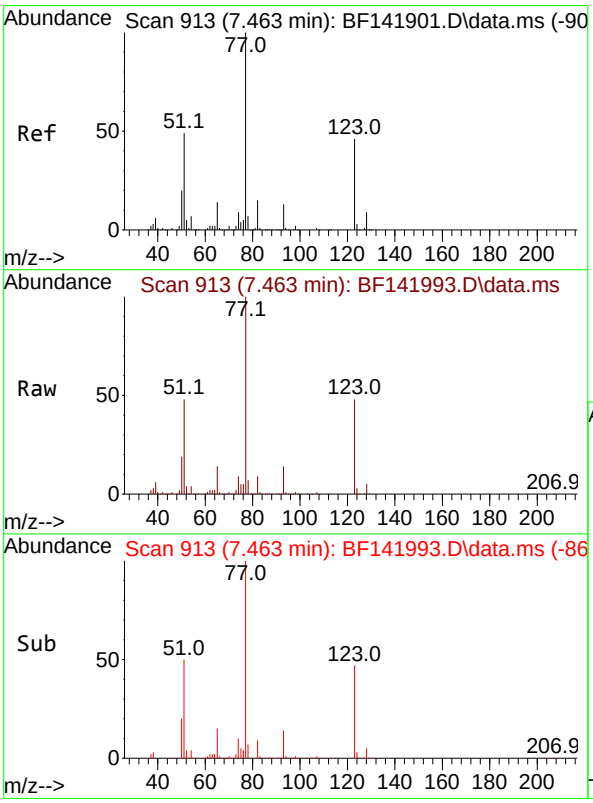
Ion	Ratio	Lower	Upper
82	100		
128	45.1	36.0	54.0
54	48.8	39.6	59.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

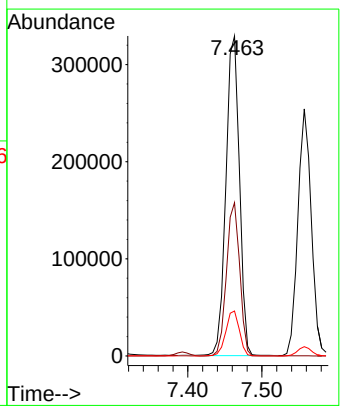
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

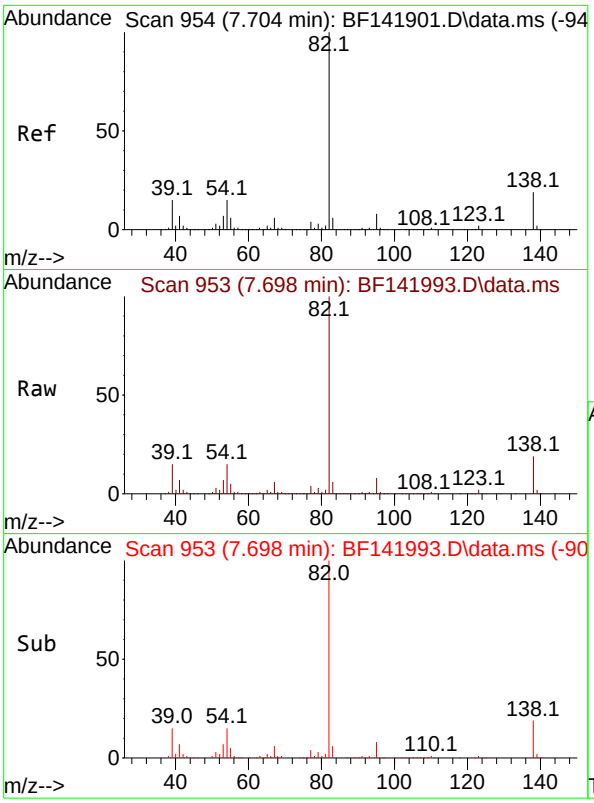


#24
Nitrobenzene
Concen: 44.111 ng
RT: 7.463 min Scan# 913
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 77 Resp: 417210

Ion	Ratio	Lower	Upper
77	100		
123	47.9	37.0	55.4
65	14.0	11.3	16.9

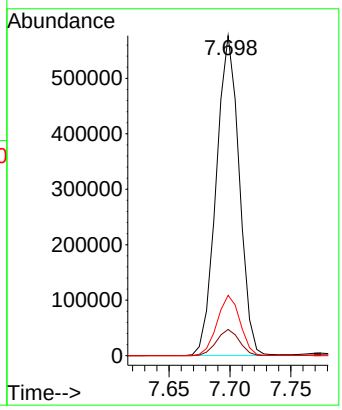




#25
Isophorone
Concen: 45.124 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 82 Resp: 75888

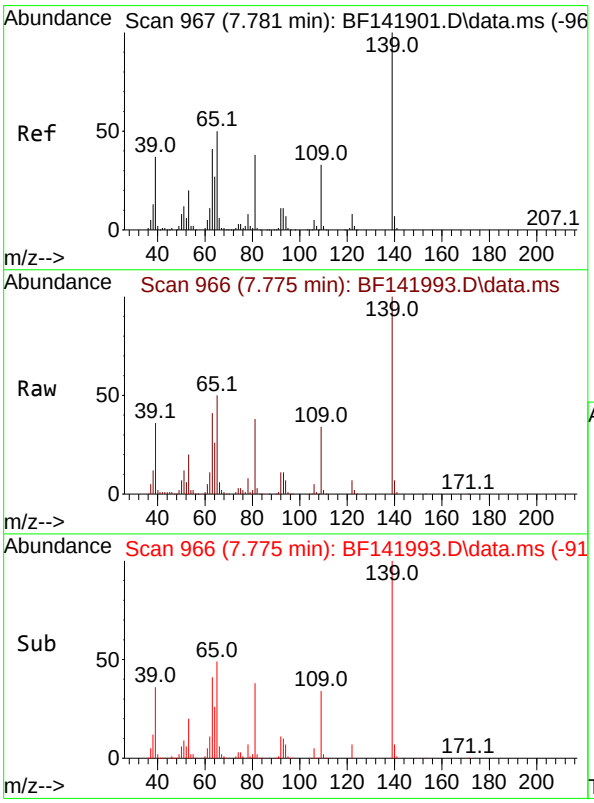
Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.4	9.6
138	18.8	14.9	22.3



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

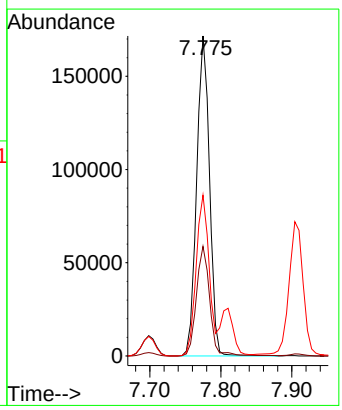
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

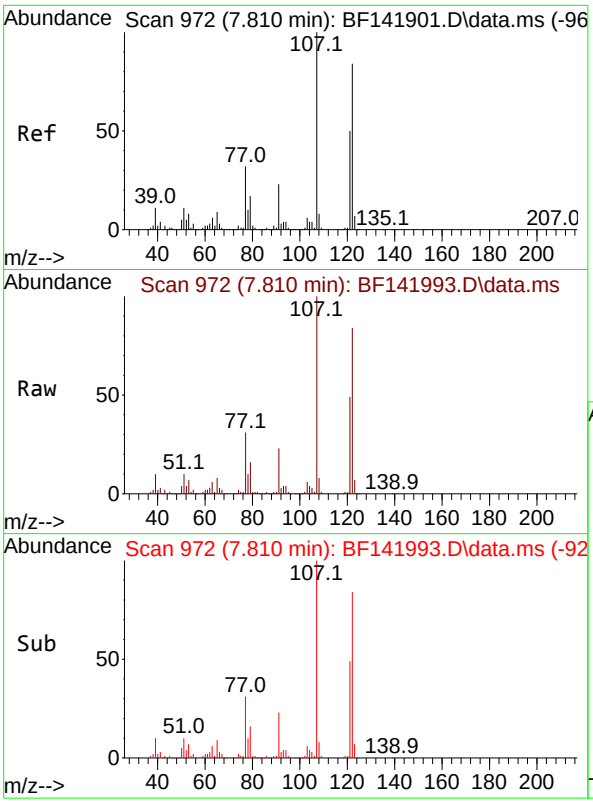


#26
2-Nitrophenol
Concen: 46.608 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:139 Resp: 216360

Ion	Ratio	Lower	Upper
139	100		
109	34.2	26.5	39.7
65	50.3	40.3	60.5

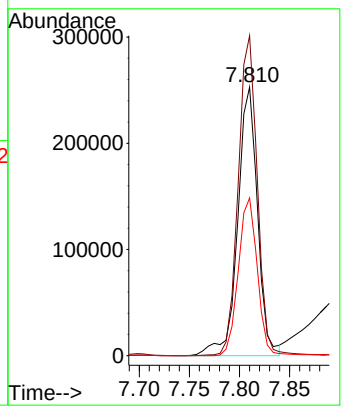




#27
2,4-Dimethylphenol
Concen: 54.671 ng
RT: 7.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:122 Resp: 34945

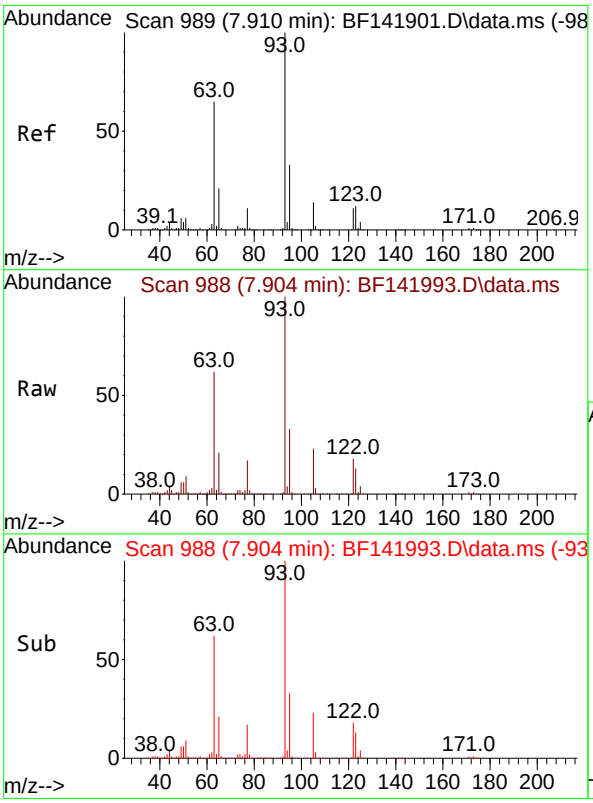
Ion	Ratio	Lower	Upper
122	100		
107	119.1	94.8	142.2
121	58.7	47.8	71.6



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

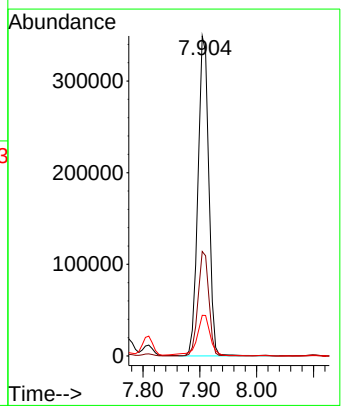
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

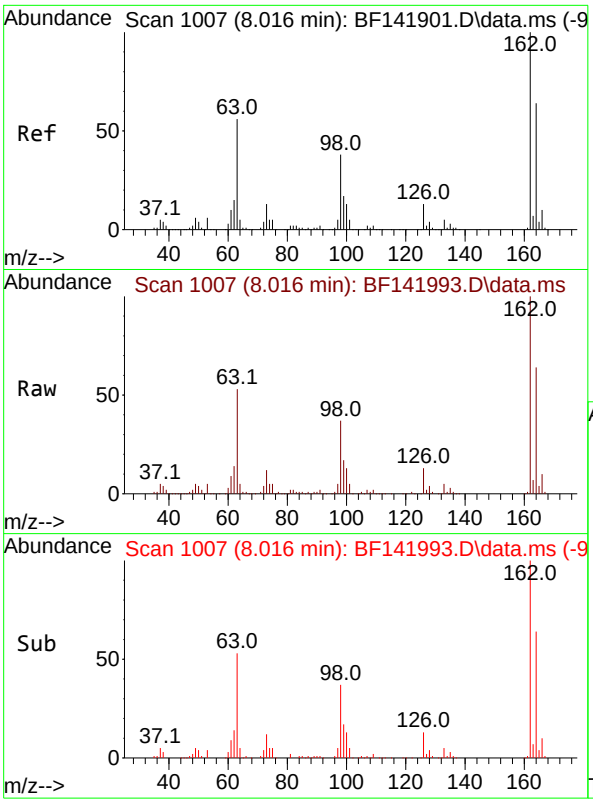


#28
bis(2-Chloroethoxy)methane
Concen: 43.949 ng
RT: 7.904 min Scan# 988
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 93 Resp: 463580

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.6	40.0
123	12.7	10.2	15.4

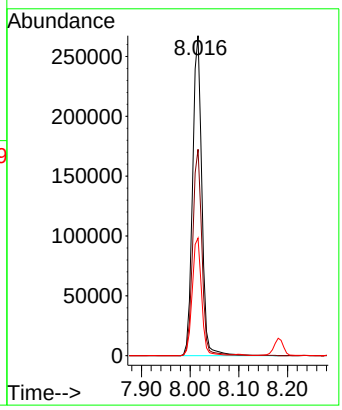




#29
2,4-Dichlorophenol
Concen: 44.861 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:162 Resp: 35592

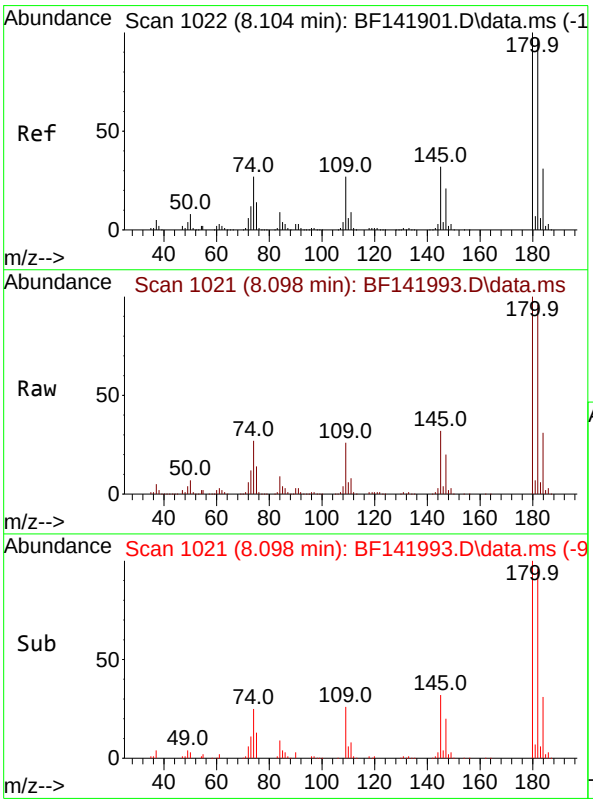
Ion	Ratio	Lower	Upper
162	100		
164	64.5	43.8	83.8
98	36.7	18.1	58.1



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

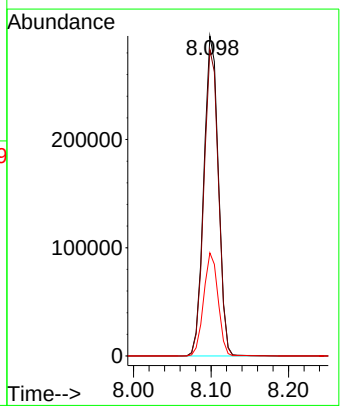
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

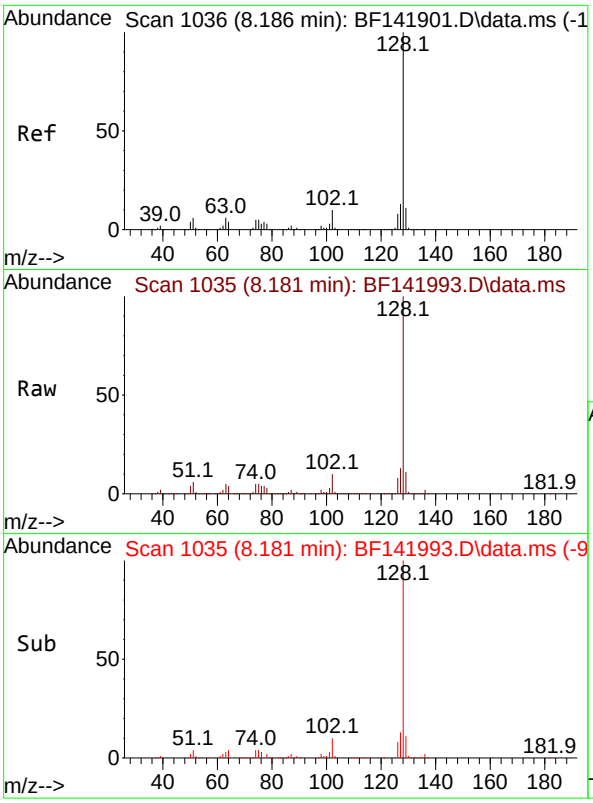


#30
1,2,4-Trichlorobenzene
Concen: 44.171 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:180 Resp: 386209

Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.5	116.3
145	32.2	25.8	38.6

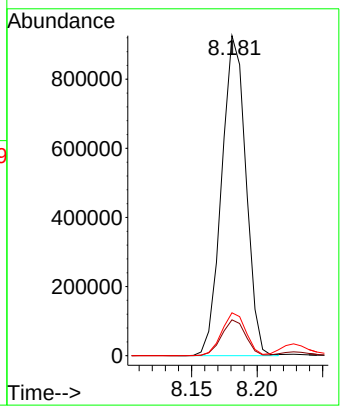




#31
Naphthalene
Concen: 43.228 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

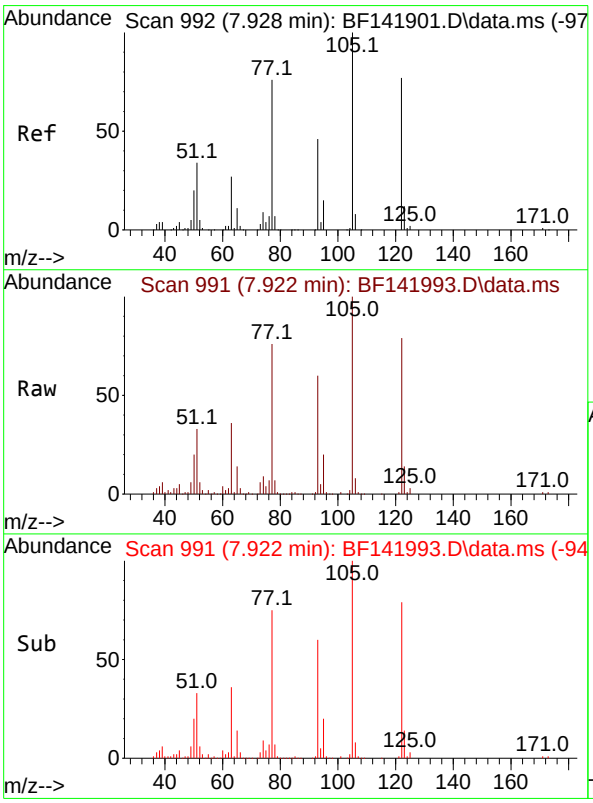
Tgt Ion:128 Resp: 118893

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	13.4	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

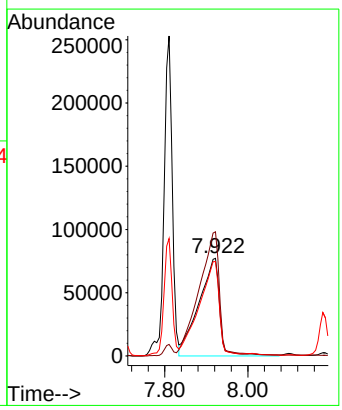
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

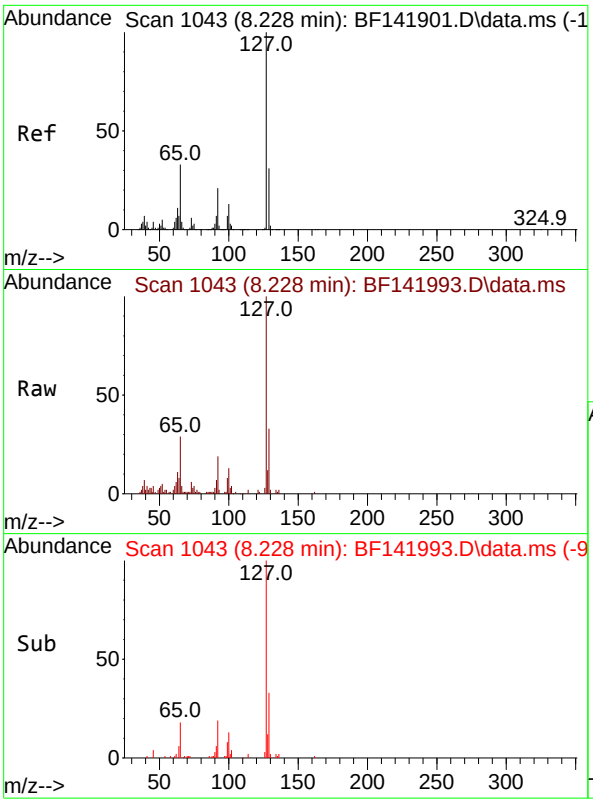


#32
Benzoic acid
Concen: 48.346 ng m
RT: 7.922 min Scan# 991
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:122 Resp: 271645

Ion	Ratio	Lower	Upper
122	100		
105	127.2	107.9	147.9
77	96.7	79.0	119.0

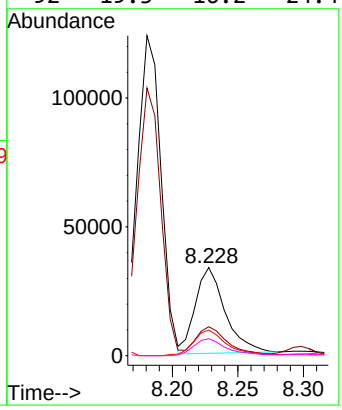




#33
4-Chloroaniline
Concen: 5.433 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

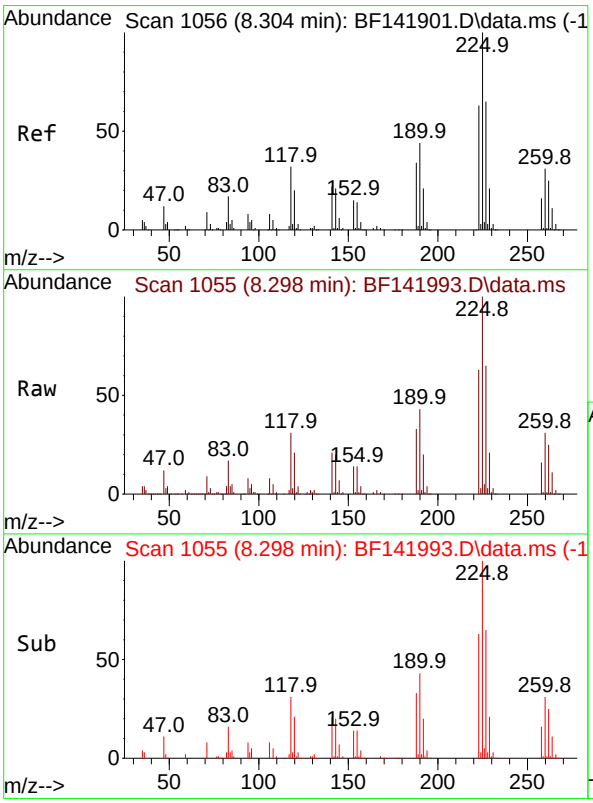
Tgt Ion:127 Resp: 5274

Ion	Ratio	Lower	Upper
127	100		
129	32.9	26.2	39.4
65	29.1	25.4	38.2
92	19.3	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

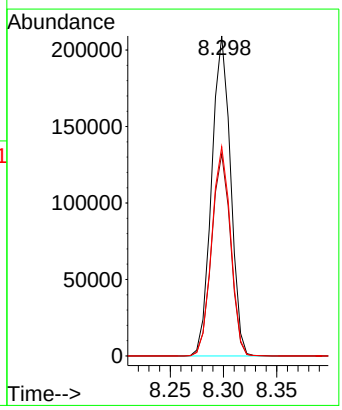
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

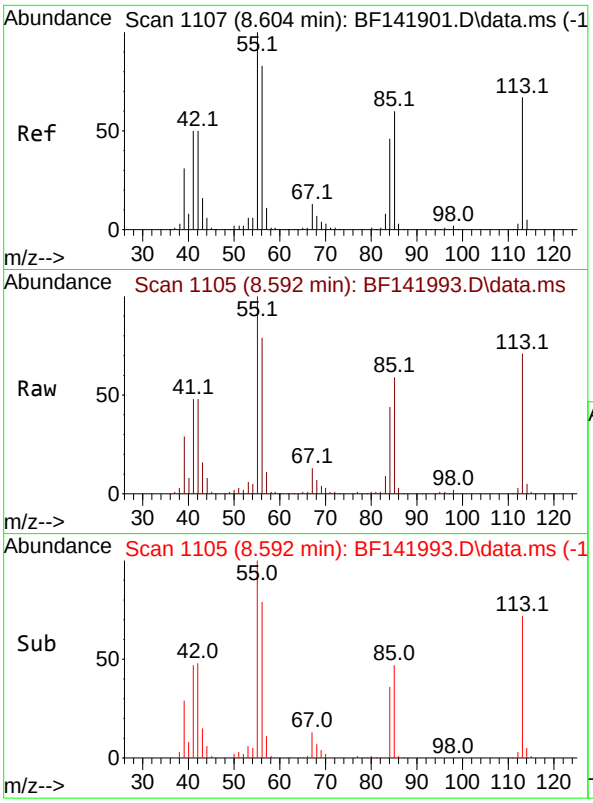


#34
Hexachlorobutadiene
Concen: 45.189 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:225 Resp: 257669

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.6	75.8
227	65.4	52.2	78.2

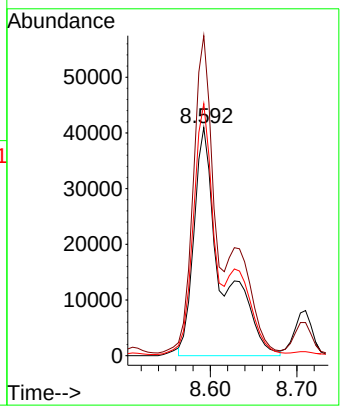




#35
Caprolactam
Concen: 37.960 ng m
RT: 8.592 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:113 Resp: 9181

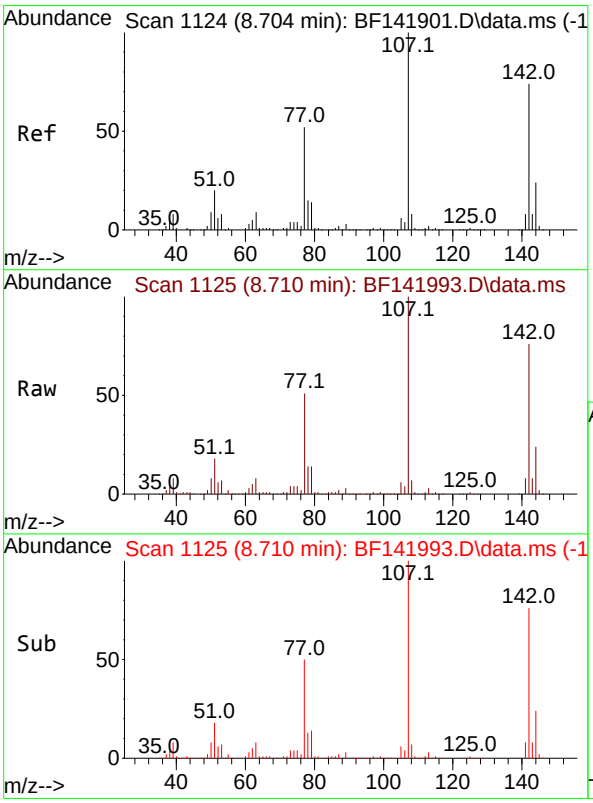
Ion	Ratio	Lower	Upper
113	100		
55	140.3	129.6	169.6
56	110.5	104.0	144.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

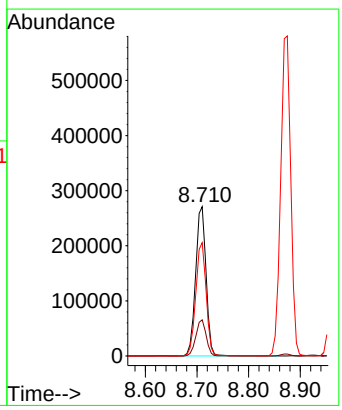
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

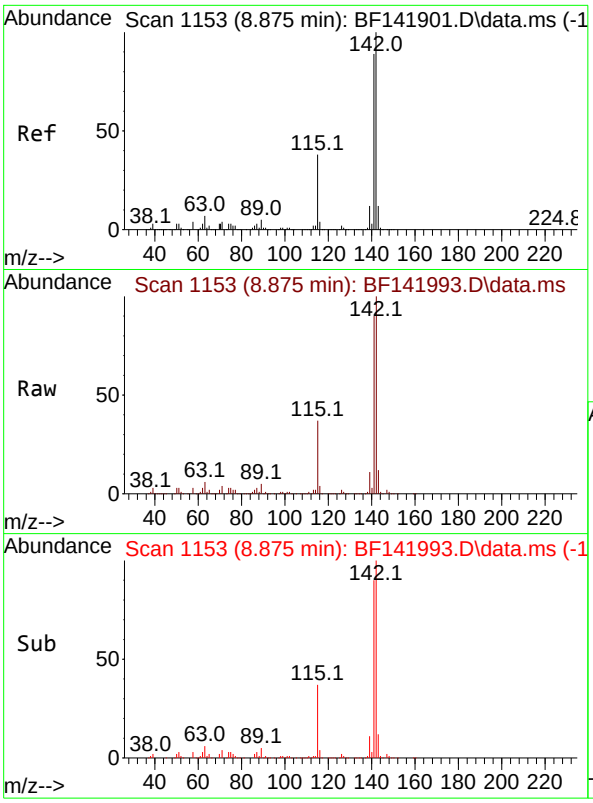


#36
4-Chloro-3-methylphenol
Concen: 42.865 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:107 Resp: 379366

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.0	28.6
142	76.0	59.2	88.8

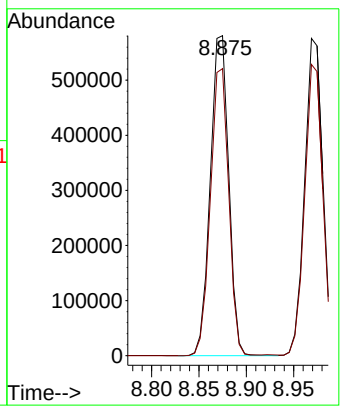




#37
2-Methylnaphthalene
Concen: 42.696 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:142 Resp: 78491

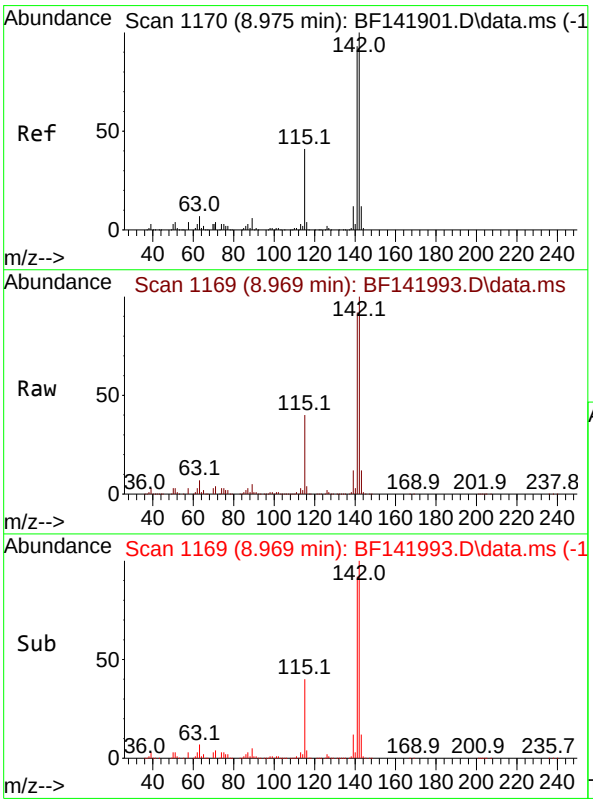
Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.2	106.8



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

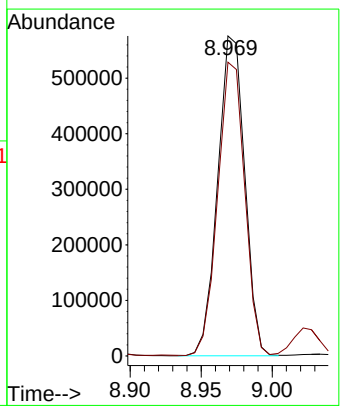
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

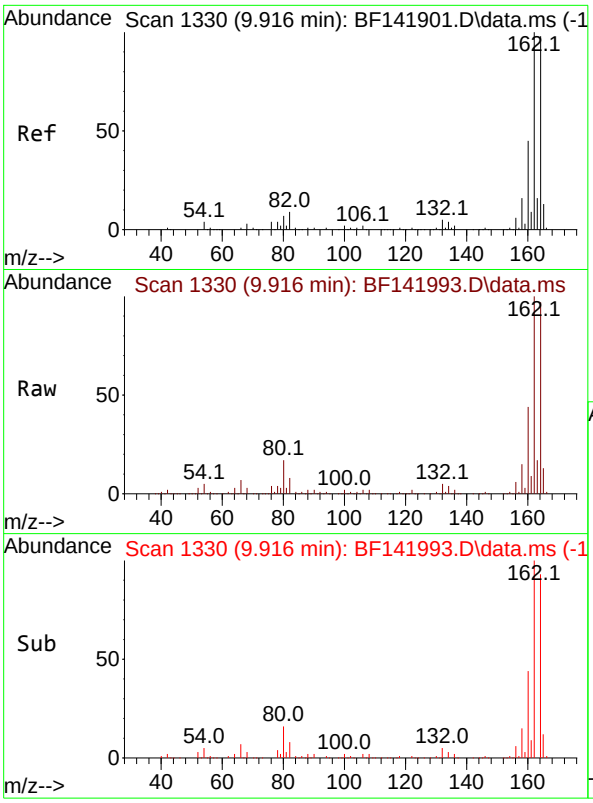


#38
1-Methylnaphthalene
Concen: 42.894 ng
RT: 8.969 min Scan# 1169
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:142 Resp: 760948

Ion	Ratio	Lower	Upper
142	100		
141	91.8	74.2	111.4

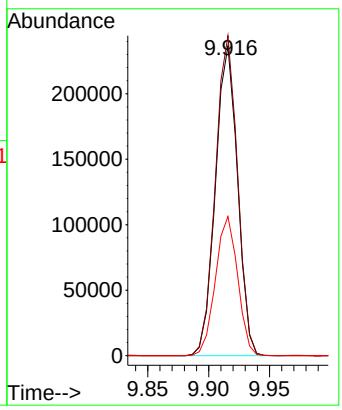




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:164 Resp: 29856

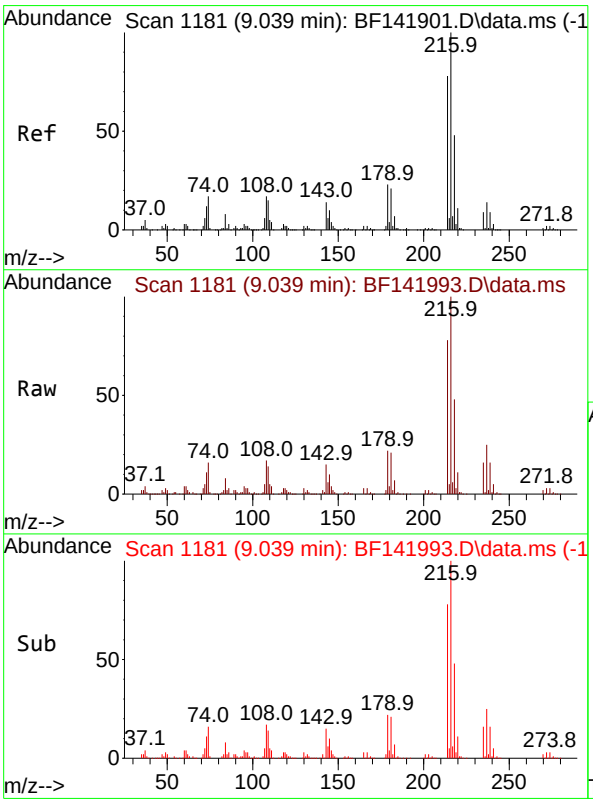
Ion	Ratio	Lower	Upper
164	100		
162	103.3	81.8	122.6
160	45.0	36.7	55.1



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

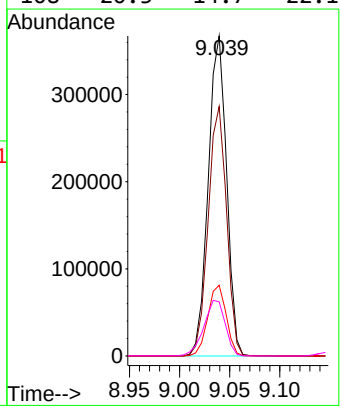
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

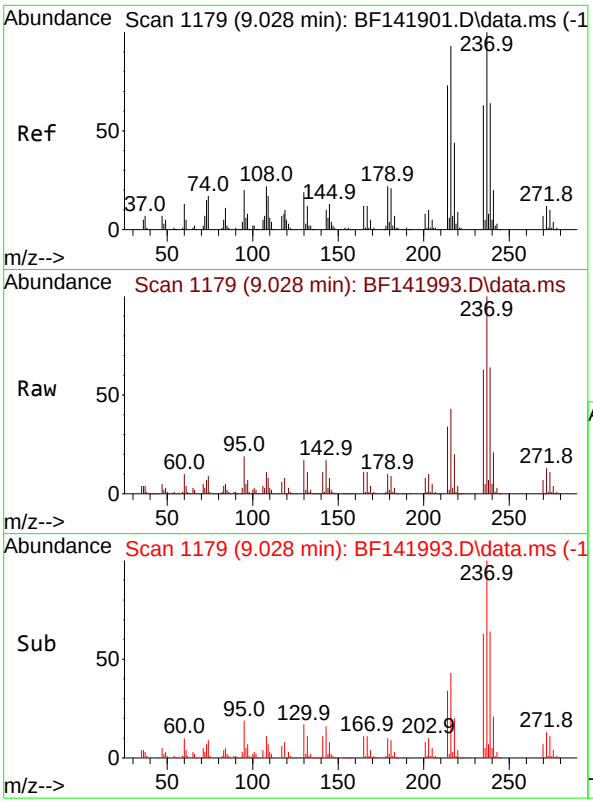


#40
1,2,4,5-Tetrachlorobenzene
Concen: 51.303 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:216 Resp: 466352

Ion	Ratio	Lower	Upper
216	100		
214	78.2	61.9	92.9
179	22.2	18.1	27.1
108	20.3	14.7	22.1

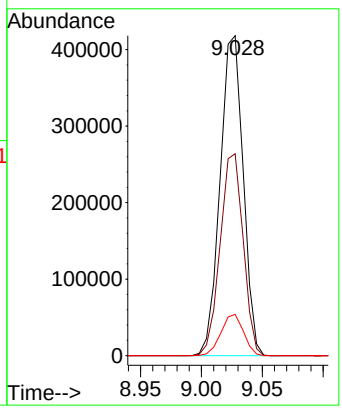




#41
Hexachlorocyclopentadiene
Concen: 155.263 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:237 Resp: 55235

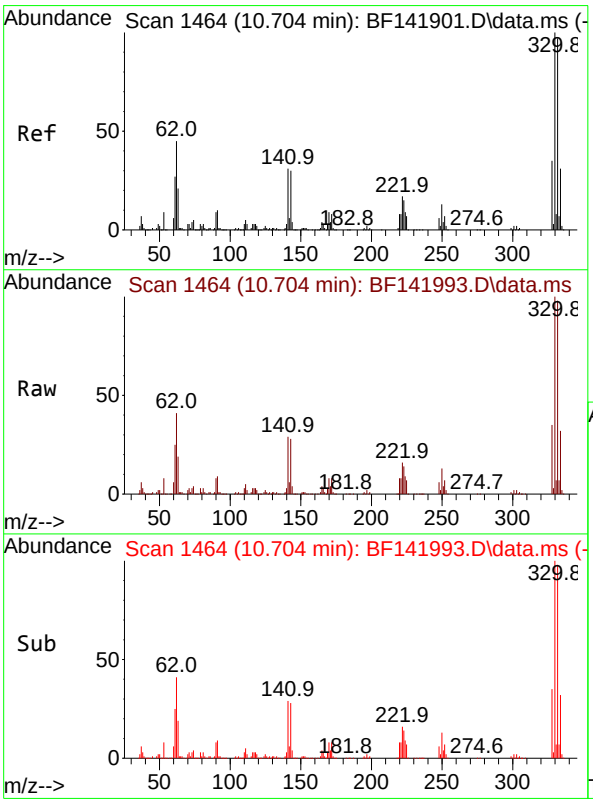
Ion	Ratio	Lower	Upper
237	100		
235	63.1	43.1	83.1
272	12.9	0.0	32.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

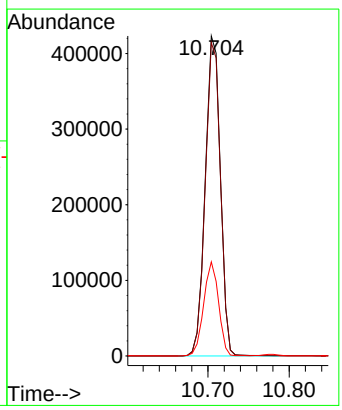
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

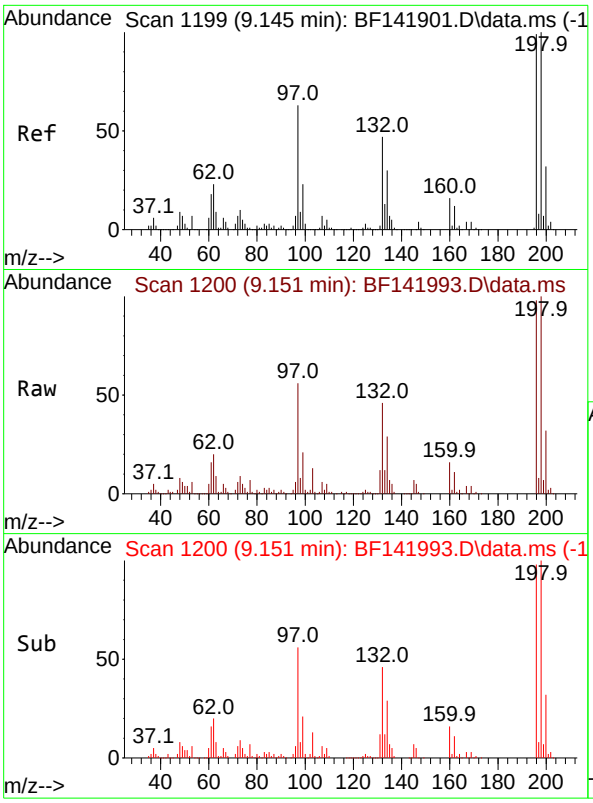


#42
2,4,6-Tribromophenol
Concen: 144.553 ng
RT: 10.704 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:330 Resp: 547526

Ion	Ratio	Lower	Upper
330	100		
332	98.3	77.6	116.4
141	29.0	24.7	37.1

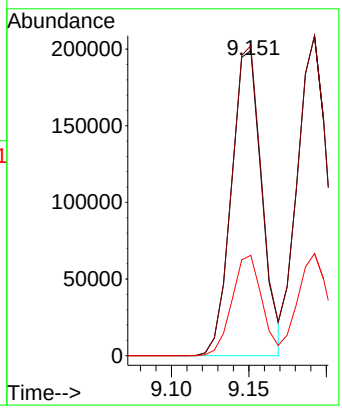




#43
2,4,6-Trichlorophenol
Concen: 45.658 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:196 Resp: 27124

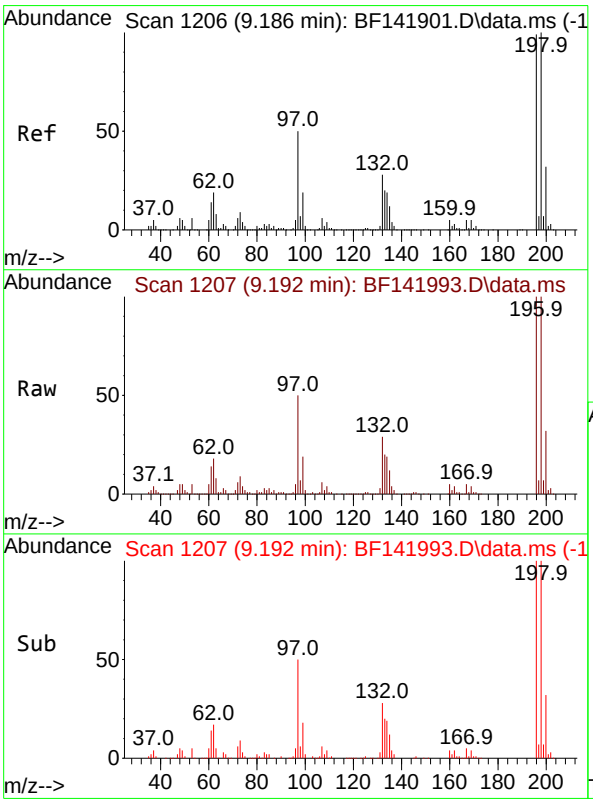
Ion	Ratio	Lower	Upper
196	100		
198	101.6	80.6	121.0
200	32.9	25.8	38.6



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

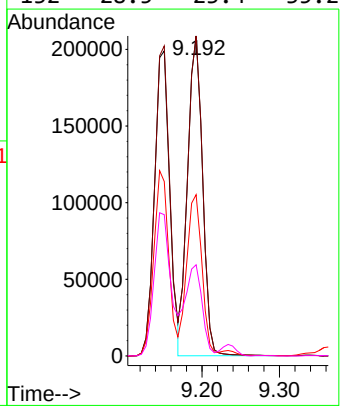
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

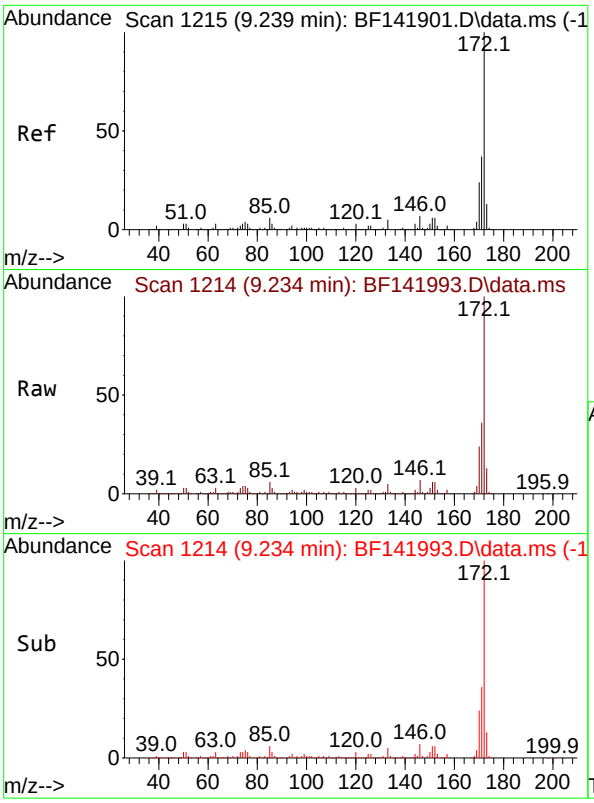


#44
2,4,5-Trichlorophenol
Concen: 46.754 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:196 Resp: 281314

Ion	Ratio	Lower	Upper
196	100		
198	100.0	80.7	121.1
97	50.4	42.1	63.1
132	28.5	23.4	35.2

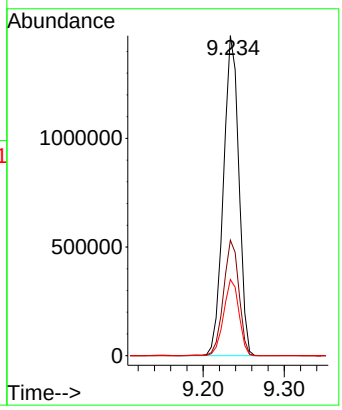




#45
2-Fluorobiphenyl
Concen: 99.221 ng
RT: 9.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:172 Resp: 194791

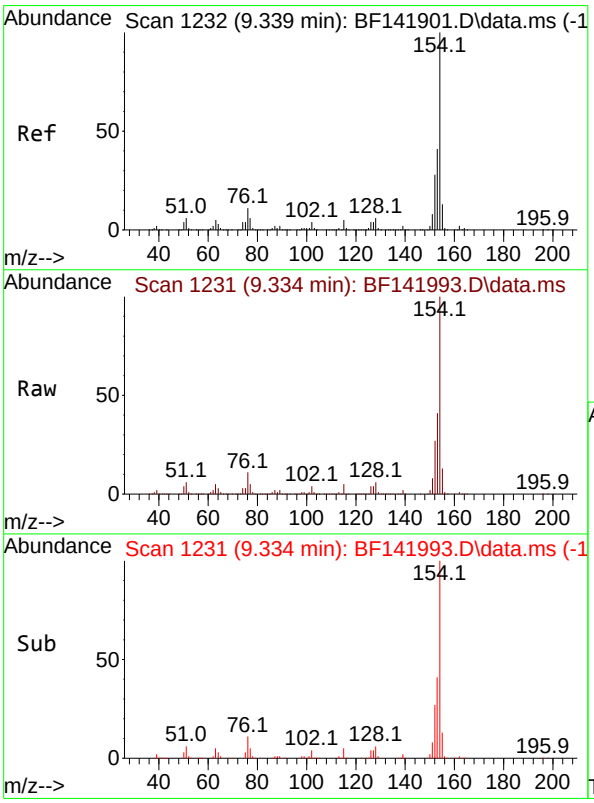
Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.3	43.9
170	23.8	19.4	29.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

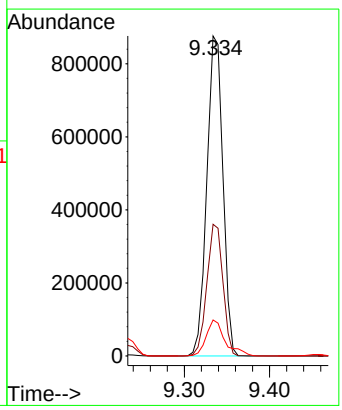
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

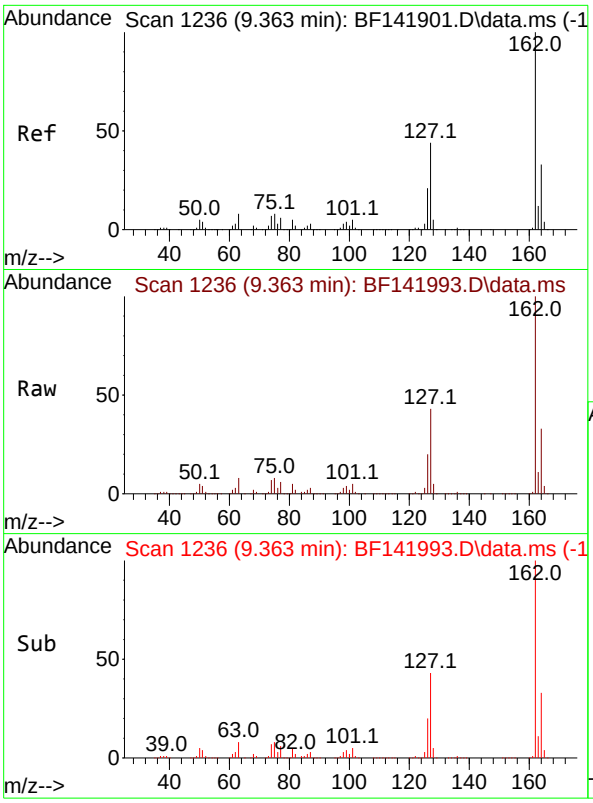


#46
1,1'-Biphenyl
Concen: 50.590 ng
RT: 9.334 min Scan# 1231
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:154 Resp: 1147658

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.1	61.1
76	11.2	0.0	31.3

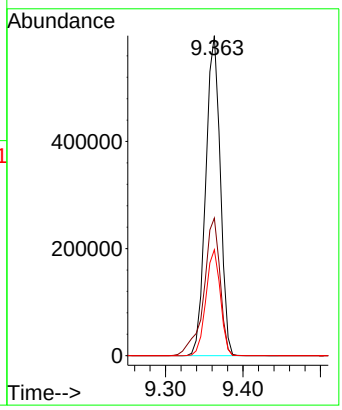




#47
2-Chloronaphthalene
Concen: 45.937 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:162 Resp: 77673

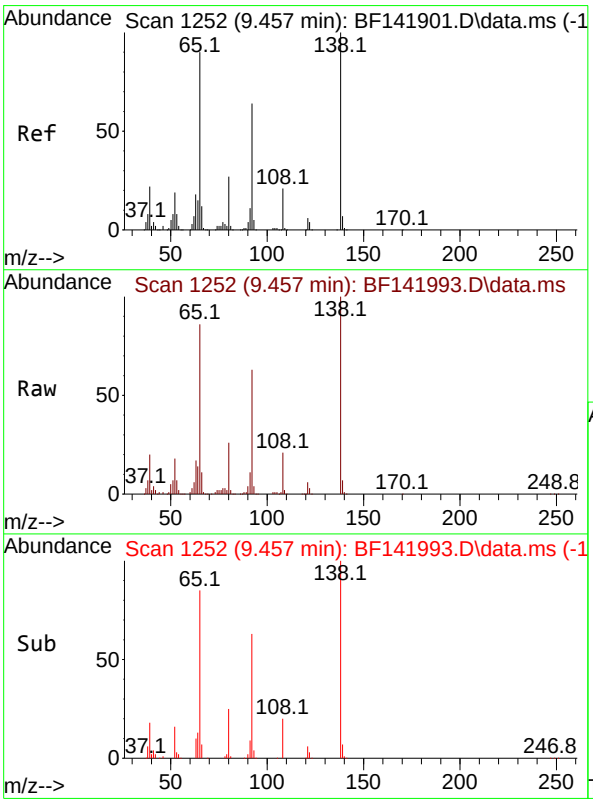
Ion	Ratio	Lower	Upper
162	100		
127	43.0	35.5	53.3
164	33.1	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

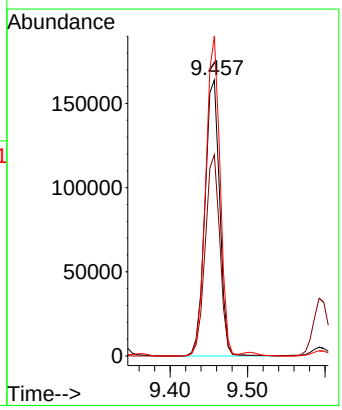
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

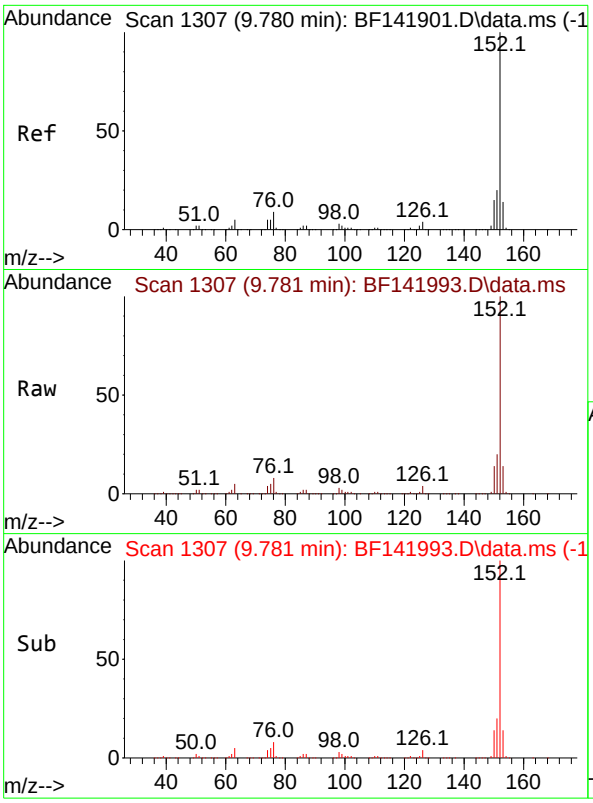


#48
2-Nitroaniline
Concen: 44.355 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 65 Resp: 217153

Ion	Ratio	Lower	Upper
65	100		
92	72.9	56.6	84.8
138	116.0	88.6	133.0

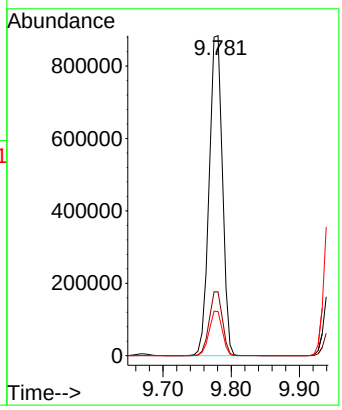




#49
Acenaphthylene
Concen: 47.721 ng
RT: 9.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

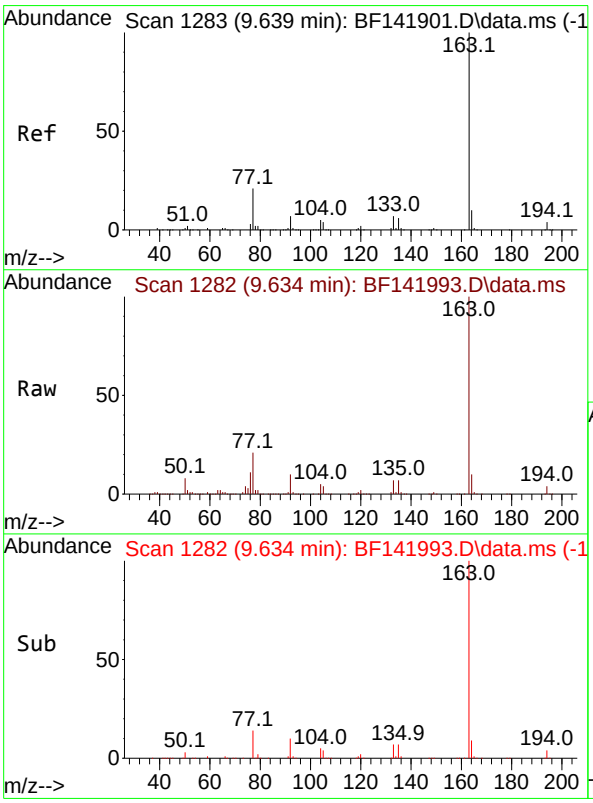
Tgt Ion:152 Resp: 119741

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.3	24.5
153	13.8	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

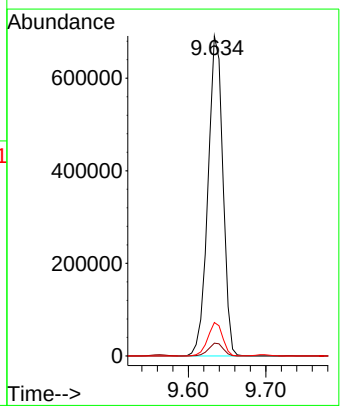
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

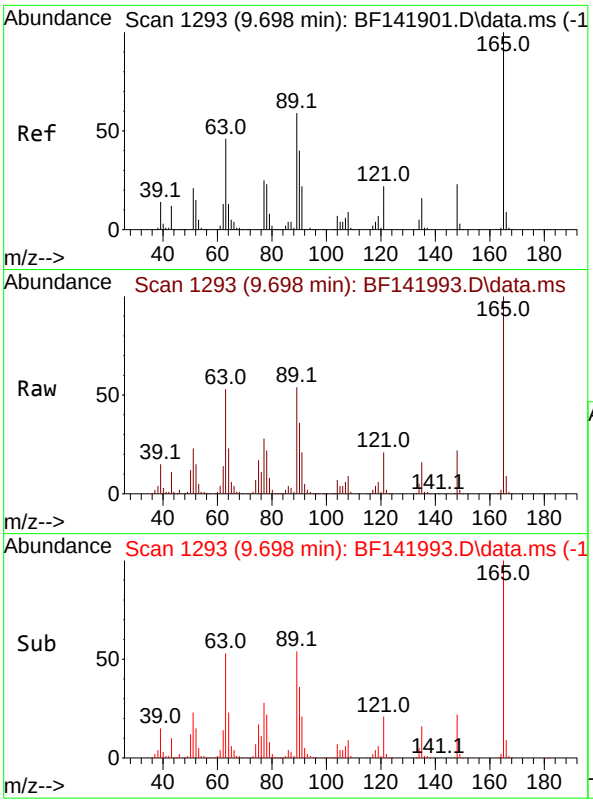


#50
Dimethylphthalate
Concen: 44.238 ng
RT: 9.634 min Scan# 1282
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:163 Resp: 924934

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.4	8.2	12.4

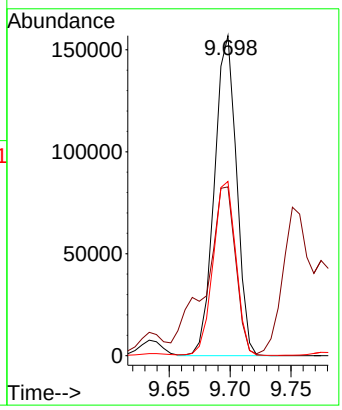




#51
2,6-Dinitrotoluene
Concen: 45.578 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:165 Resp: 19841

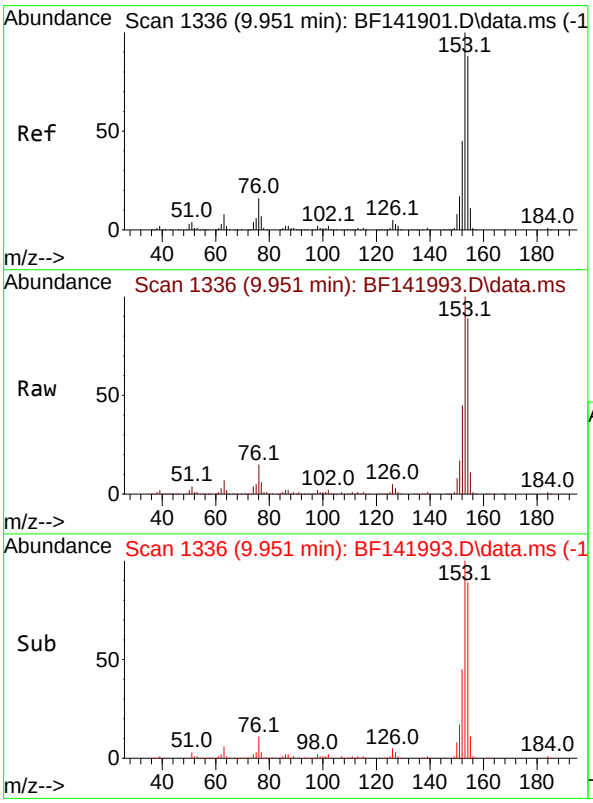
Ion	Ratio	Lower	Upper
165	100		
63	52.8	47.0	70.4
89	54.5	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

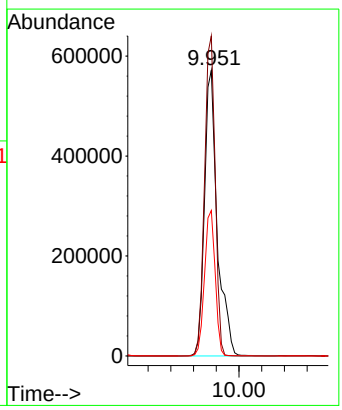
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

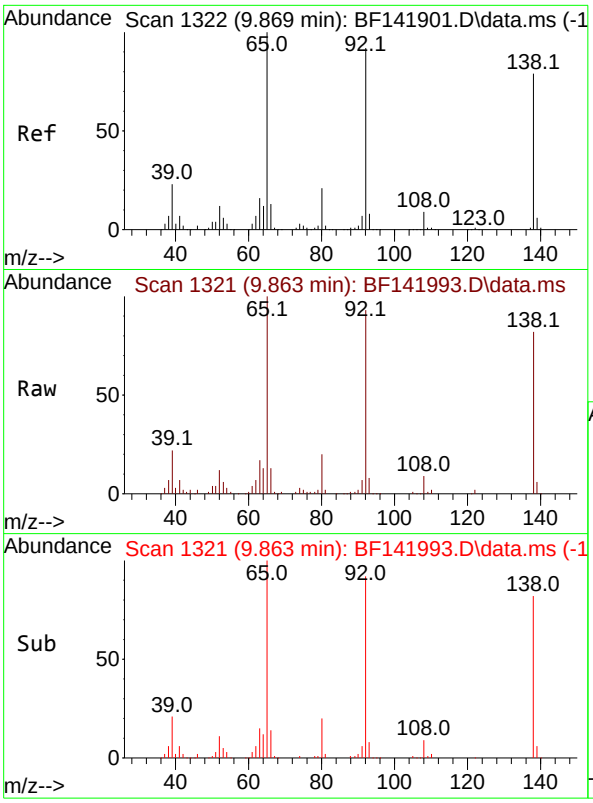


#52
Acenaphthene
Concen: 50.651 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:154 Resp: 893147

Ion	Ratio	Lower	Upper
154	100		
153	112.0	90.7	136.1
152	50.9	41.1	61.7





#53
3-Nitroaniline
Concen: 12.160 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

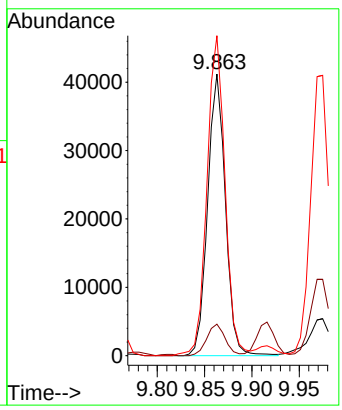
Tgt Ion:138 Resp: 5369

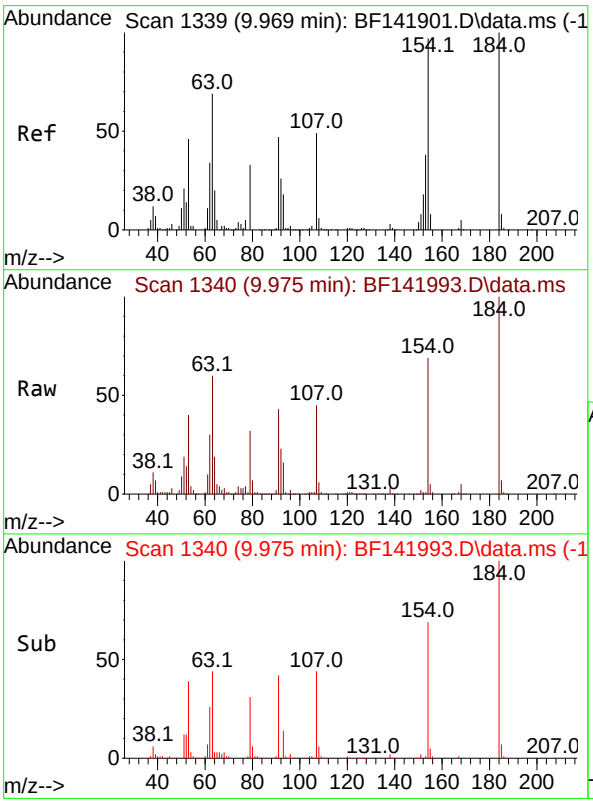
Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.3	13.9
92	113.6	93.5	140.3

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

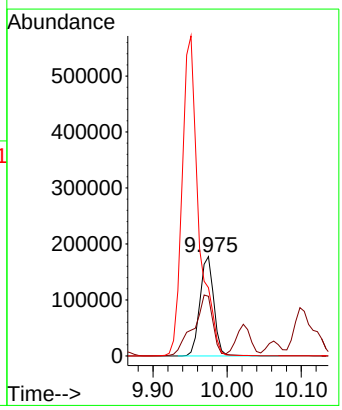


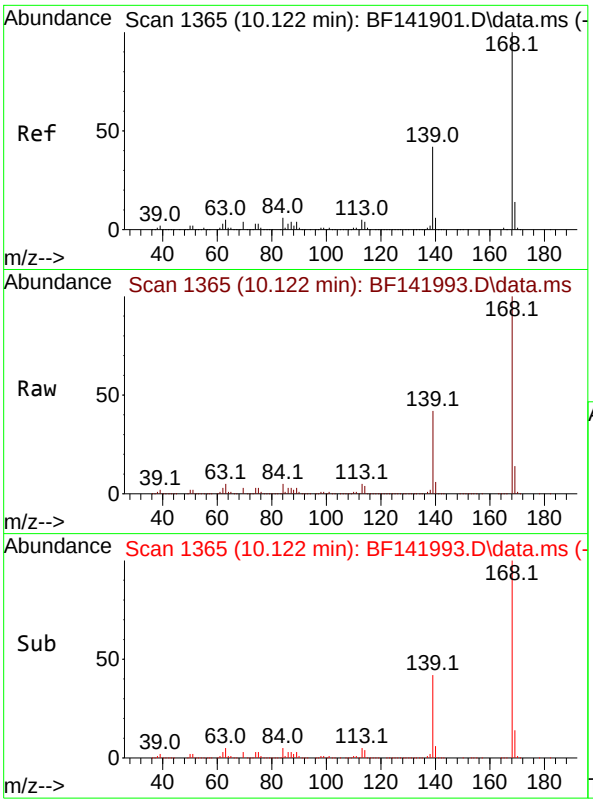


#54
2,4-Dinitrophenol
Concen: 92.501 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:184 Resp: 231559

Ion	Ratio	Lower	Upper
184	100		
63	60.0	60.2	90.4#
154	68.8	132.9	199.3#

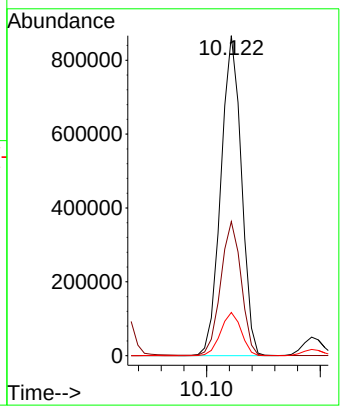




#55
Dibenzofuran
Concen: 43.274 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:168 Resp: 109032

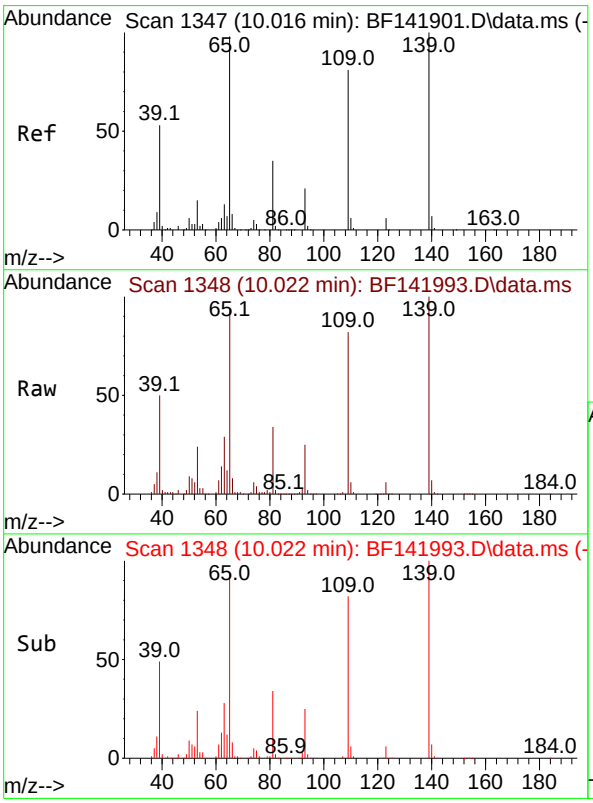
Ion	Ratio	Lower	Upper
168	100		
139	41.9	33.9	50.9
169	13.5	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

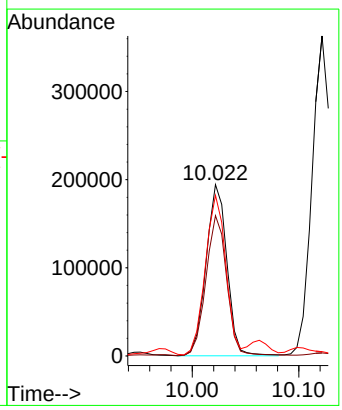
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

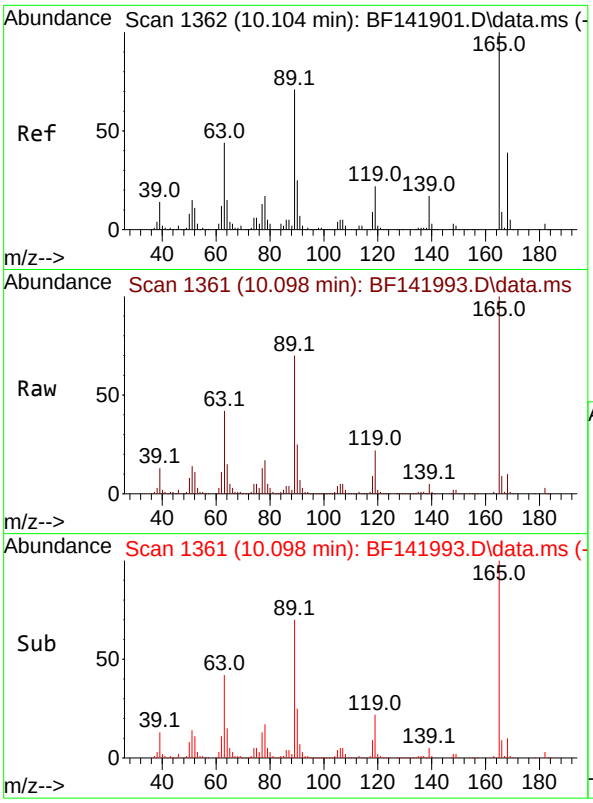


#56
4-Nitrophenol
Concen: 79.177 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:139 Resp: 263665

Ion	Ratio	Lower	Upper
139	100		
109	81.9	61.6	101.6
65	93.8	79.4	119.4

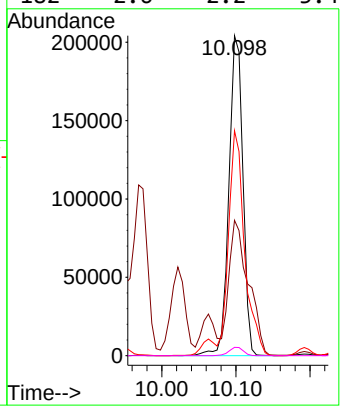




#57
2,4-Dinitrotoluene
Concen: 47.015 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:165 Resp: 26731

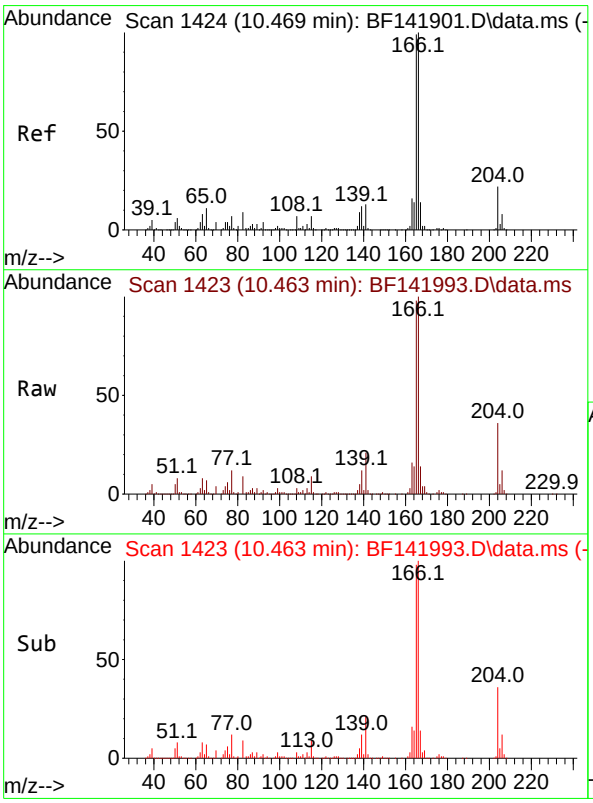
Ion	Ratio	Lower	Upper
165	100		
63	42.3	35.4	53.2
89	70.3	56.6	84.8
182	2.6	2.2	3.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

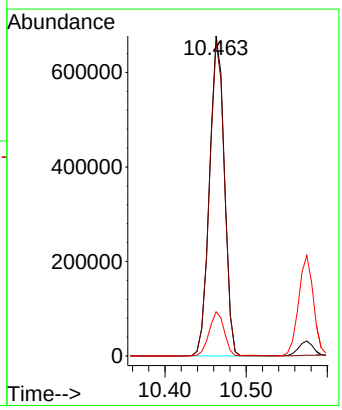
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

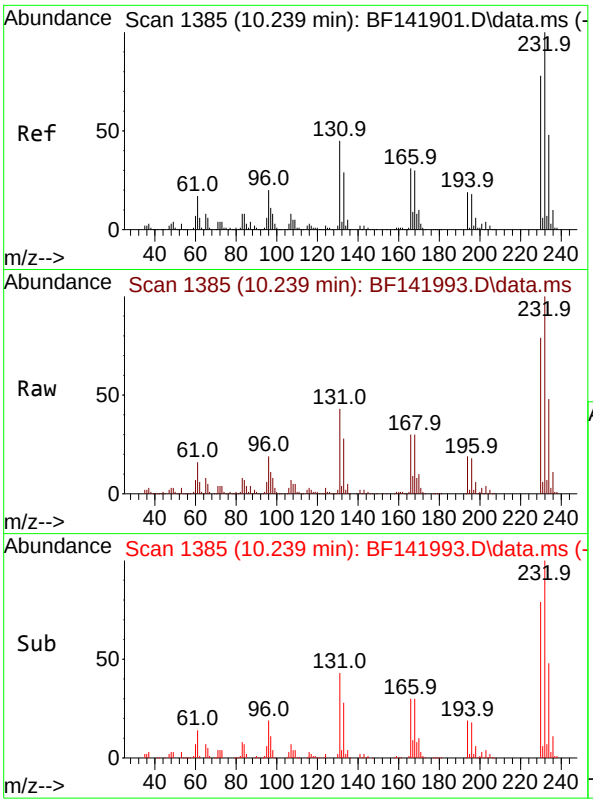


#58
Fluorene
Concen: 44.339 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:166 Resp: 861532

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.0	118.4
167	13.8	11.0	16.4

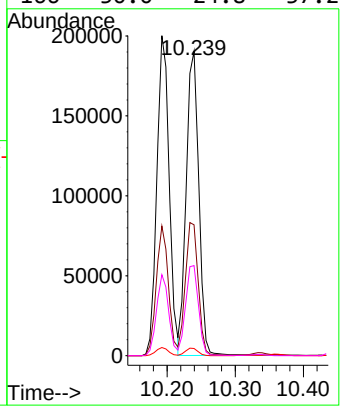




#59
2,3,4,6-Tetrachlorophenol
Concen: 44.233 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:232 Resp: 24218

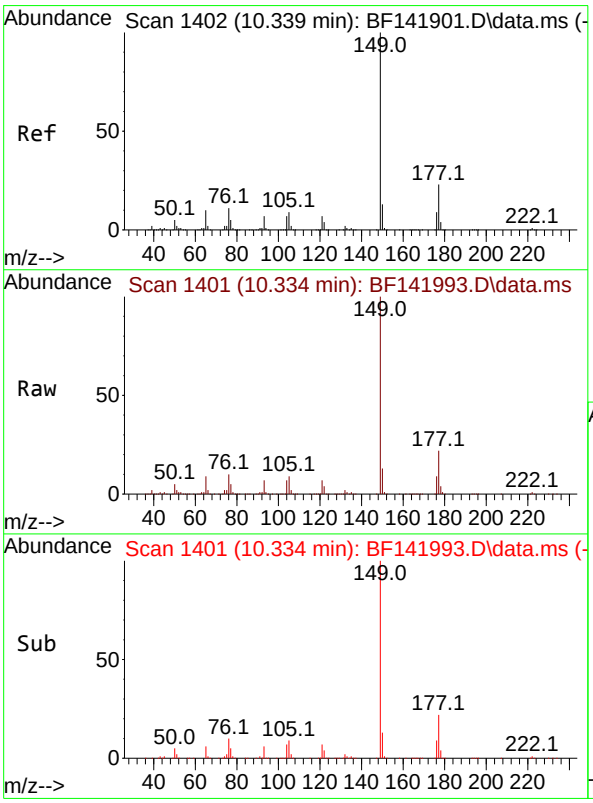
Ion	Ratio	Lower	Upper
232	100		
131	44.6	37.3	55.9
130	2.5	1.9	2.9
166	30.0	24.8	37.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

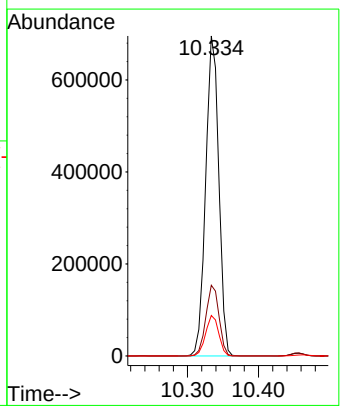
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

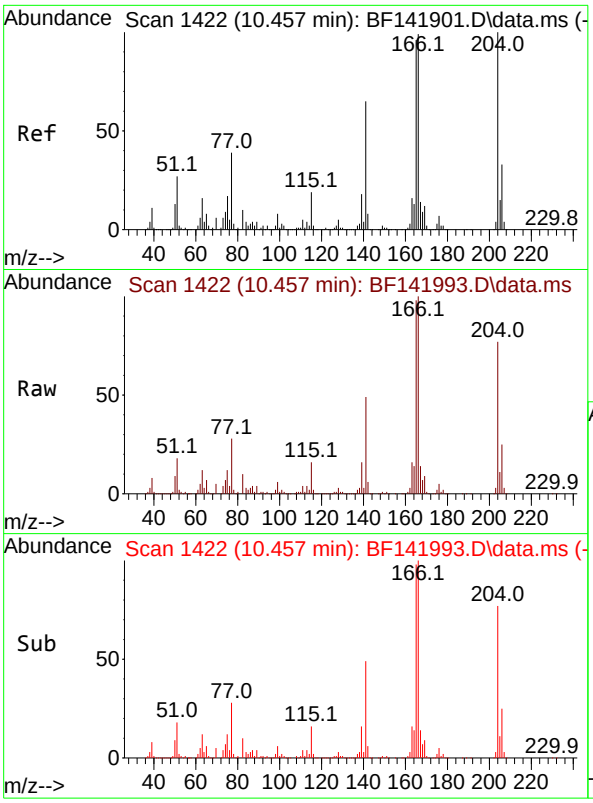


#60
Diethylphthalate
Concen: 42.892 ng
RT: 10.334 min Scan# 1401
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:149 Resp: 894203

Ion	Ratio	Lower	Upper
149	100		
177	22.1	18.0	27.0
150	12.6	10.2	15.4

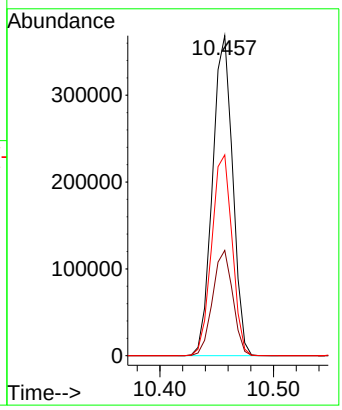




#61
4-Chlorophenyl-phenylether
Concen: 44.899 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:204 Resp: 45482

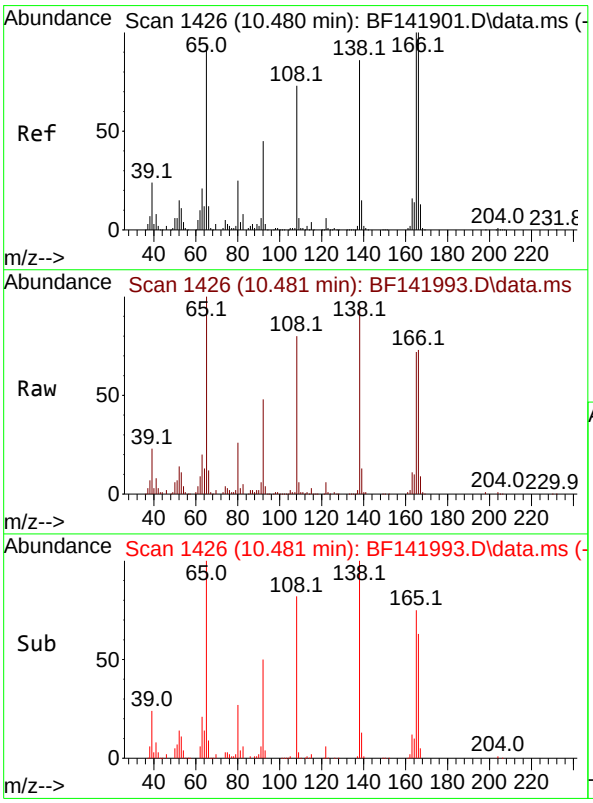
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.8	40.2
141	62.7	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

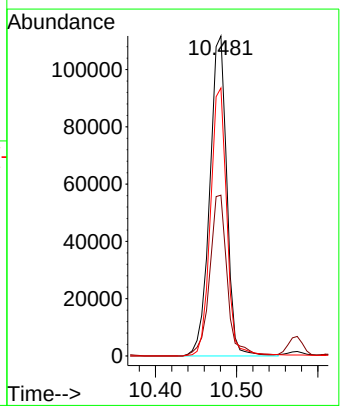
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

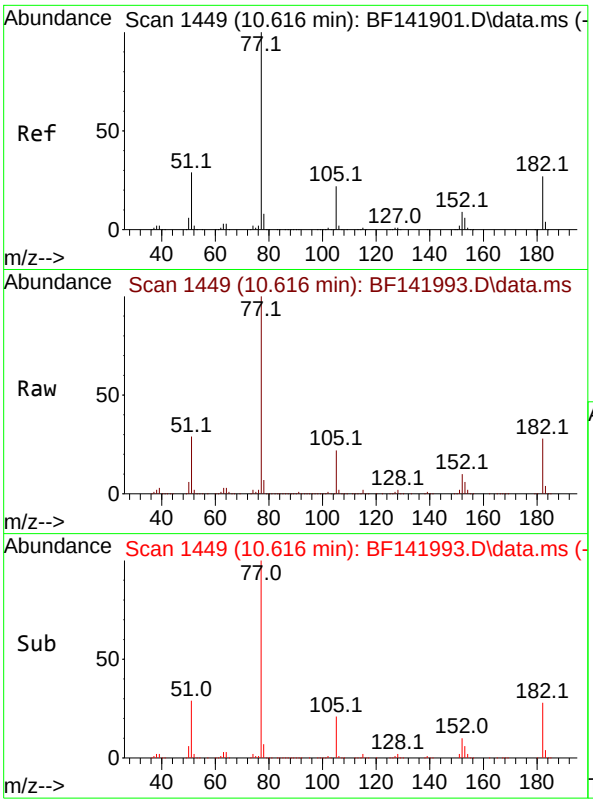


#62
4-Nitroaniline
Concen: 37.858 ng
RT: 10.481 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:138 Resp: 162752

Ion	Ratio	Lower	Upper
138	100		
92	50.3	32.6	72.6
108	83.8	65.0	105.0

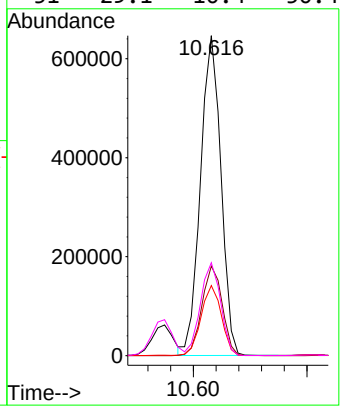




#63
Azobenzene
Concen: 41.682 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 77 Resp: 80790

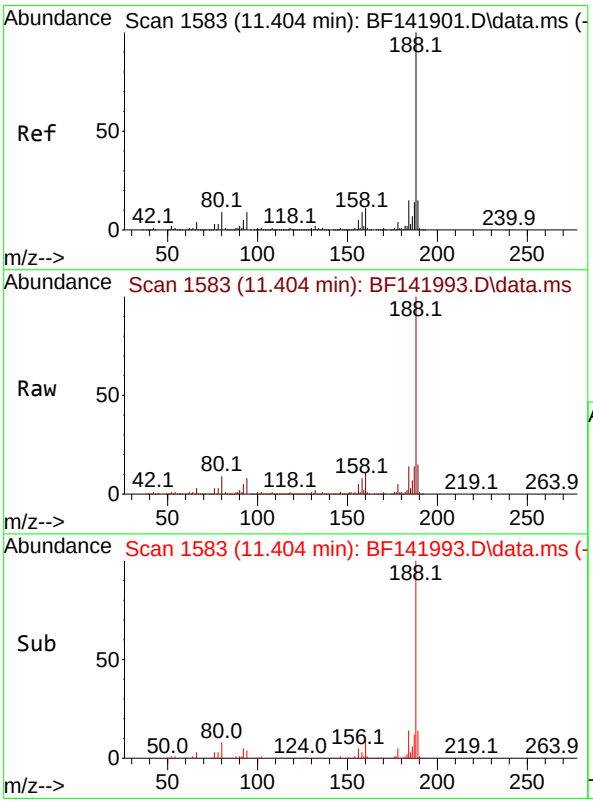
Ion	Ratio	Lower	Upper
77	100		
182	28.0	6.6	46.6
105	21.9	1.3	41.3
51	29.1	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

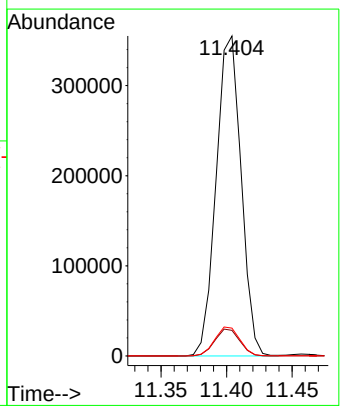
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

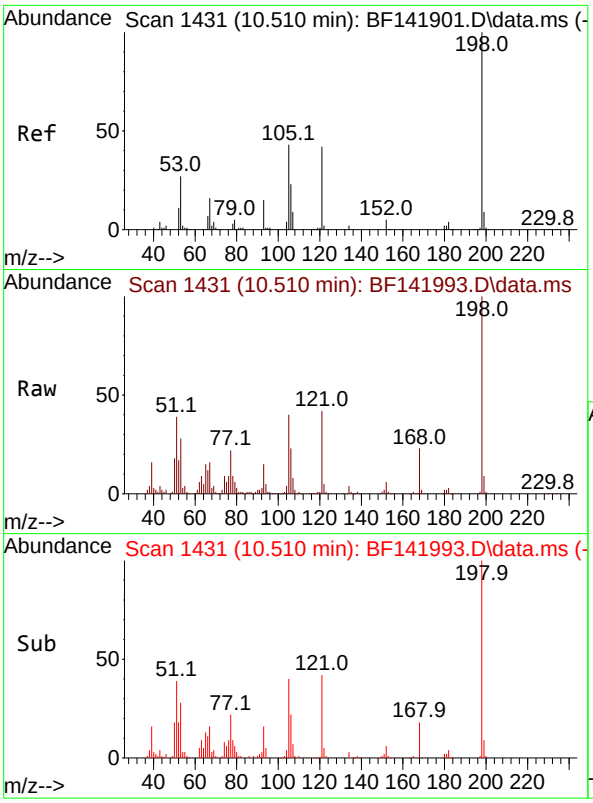


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:188 Resp: 470466

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.8	10.2
80	8.7	7.6	11.4

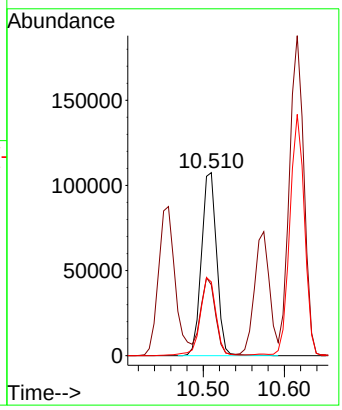




#65
4,6-Dinitro-2-methylphenol
Concen: 49.802 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

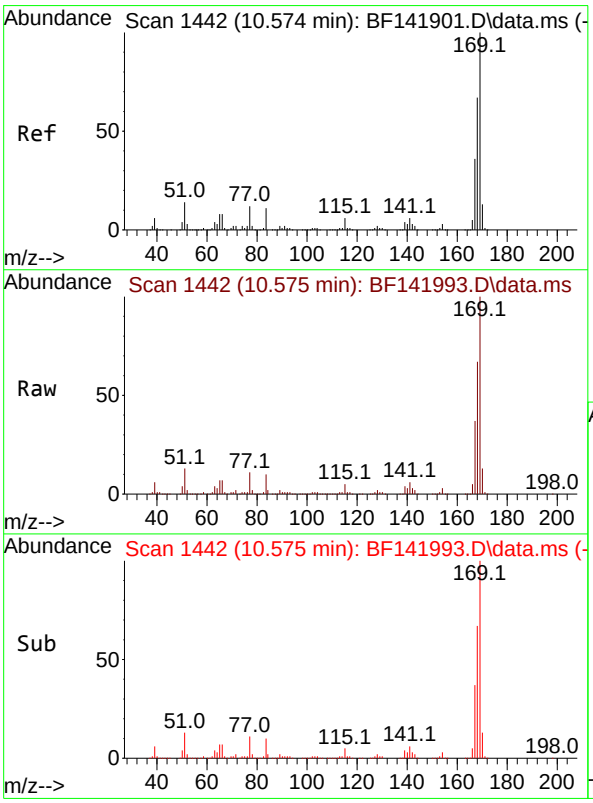
Tgt Ion:198 Resp: 13967

Ion	Ratio	Lower	Upper
198	100		
51	38.7	22.3	62.3
105	40.3	23.0	63.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

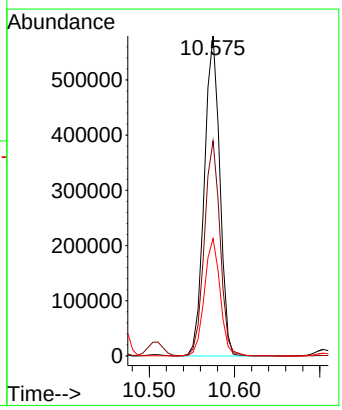
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

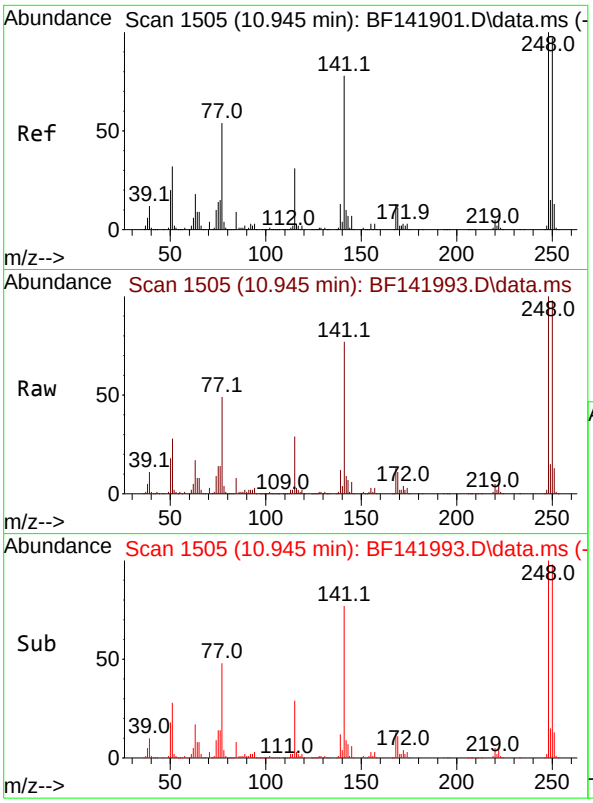


#66
n-Nitrosodiphenylamine
Concen: 47.911 ng
RT: 10.575 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:169 Resp: 729426

Ion	Ratio	Lower	Upper
169	100		
168	67.2	53.7	80.5
167	36.7	29.2	43.8

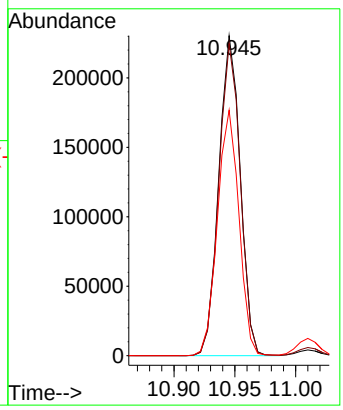




#67
4-Bromophenyl-phenylether
Concen: 47.932 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:248 Resp: 28320

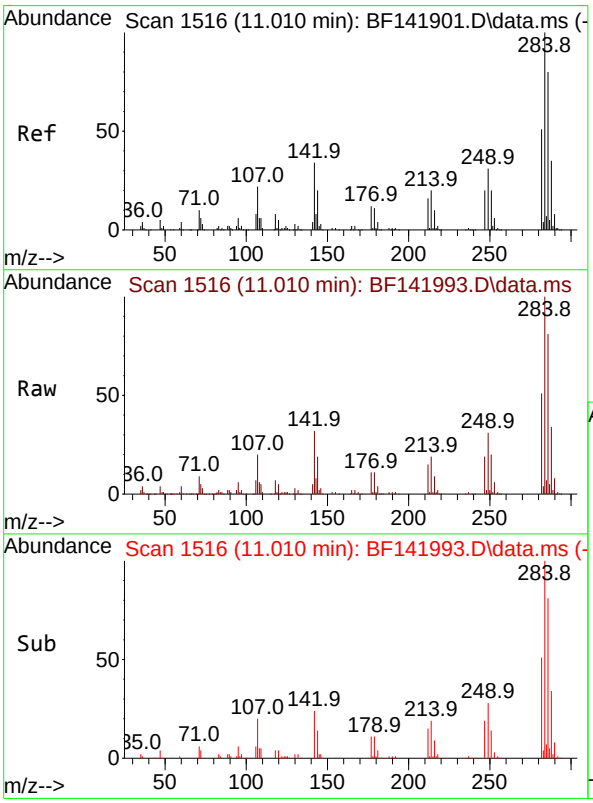
Ion	Ratio	Lower	Upper
248	100		
250	97.5	77.8	116.8
141	76.7	62.6	93.8



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

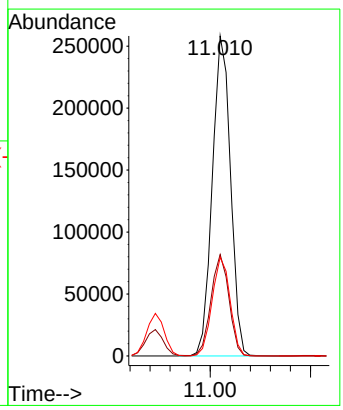
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

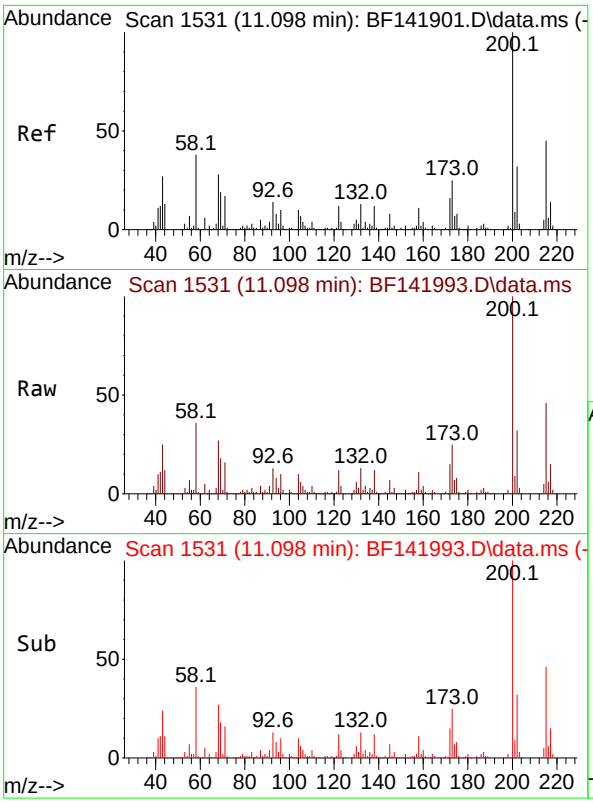


#68
Hexachlorobenzene
Concen: 50.043 ng
RT: 11.010 min Scan# 1516
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:284 Resp: 324295

Ion	Ratio	Lower	Upper
284	100		
142	31.7	27.0	40.6
249	30.9	25.2	37.8

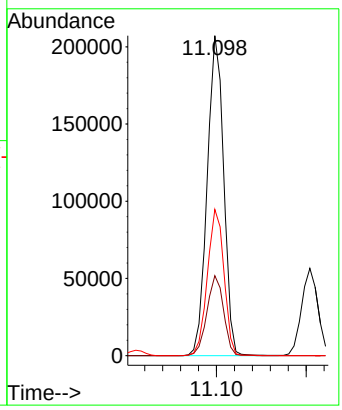




#69
Atrazine
Concen: 56.733 ng
RT: 11.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:200 Resp: 26478

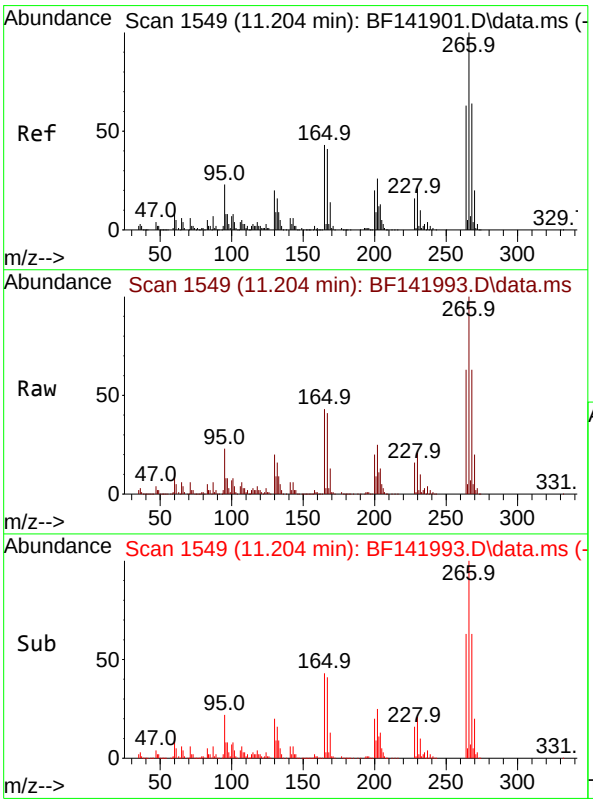
Ion	Ratio	Lower	Upper
200	100		
173	25.0	4.7	44.7
215	45.7	25.4	65.4



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

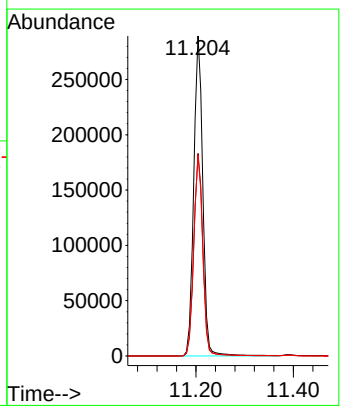
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

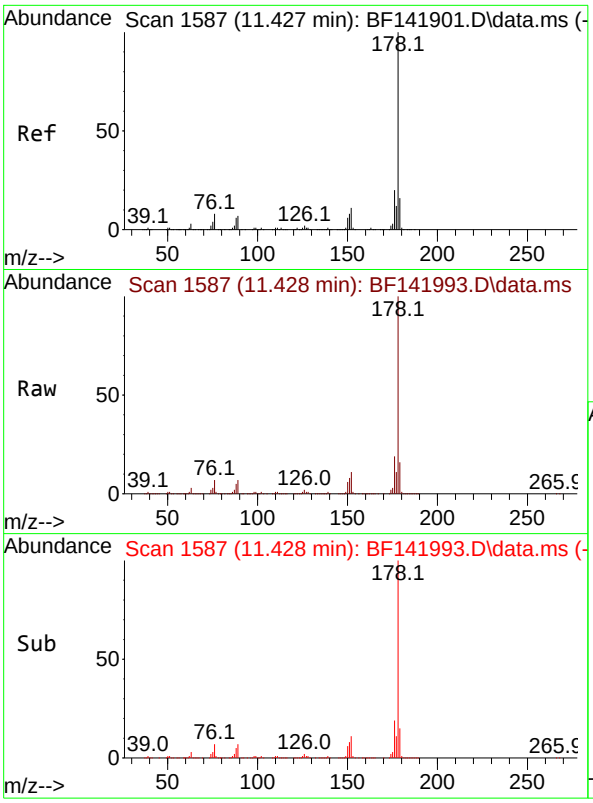


#70
Pentachlorophenol
Concen: 94.300 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:266 Resp: 376512

Ion	Ratio	Lower	Upper
266	100		
268	63.3	51.0	76.6
264	62.8	50.2	75.2

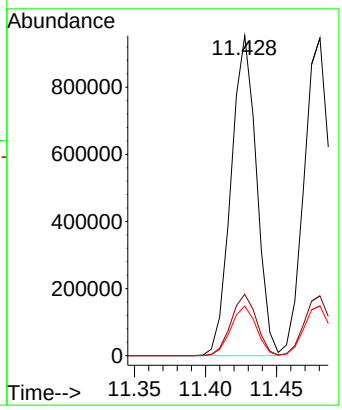




#71
Phenanthrene
Concen: 46.630 ng
RT: 11.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:178 Resp: 118493

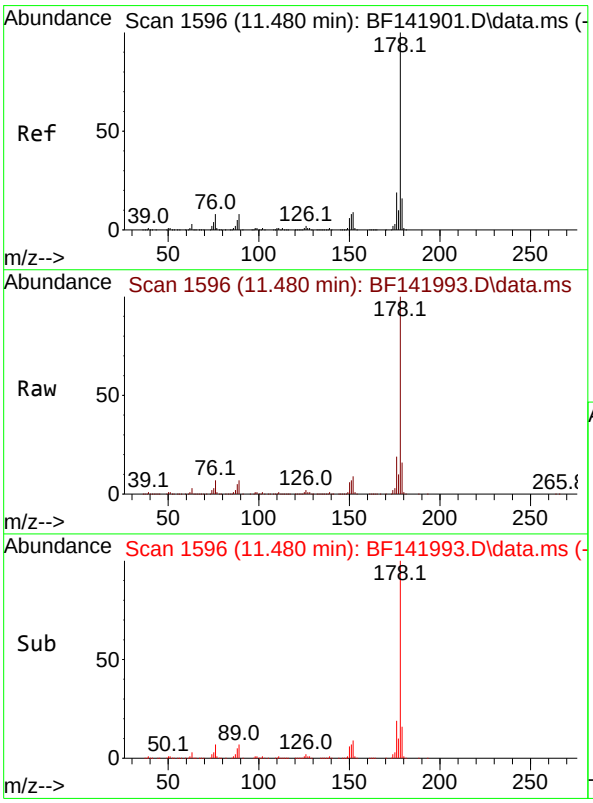
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	15.5	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

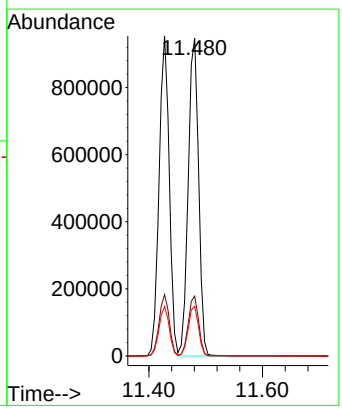
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

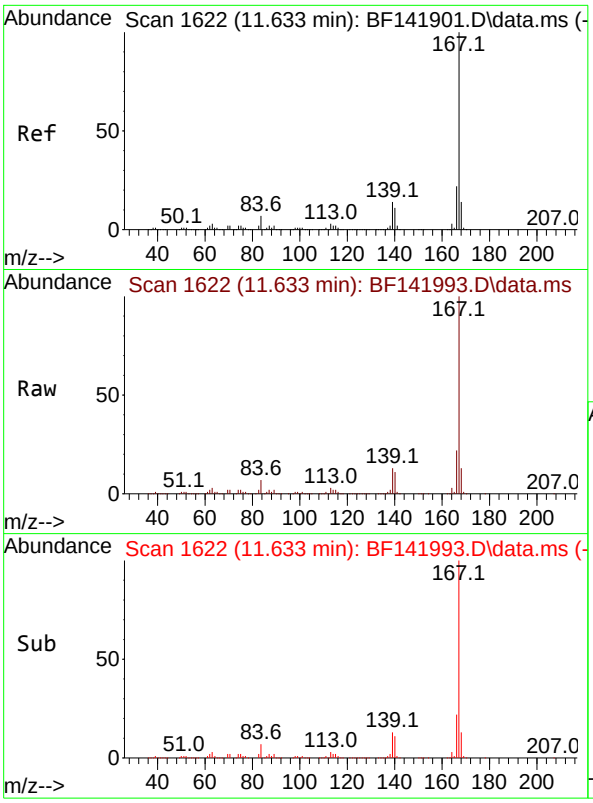


#72
Anthracene
Concen: 47.150 ng
RT: 11.480 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:178 Resp: 1202057

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.1	22.7
179	15.6	12.6	19.0

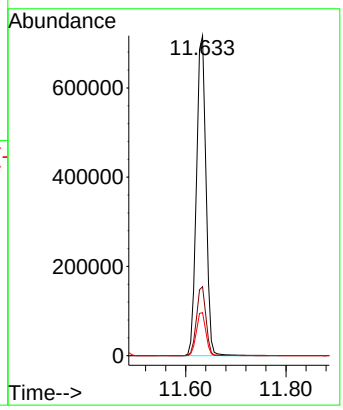




#73
Carbazole
Concen: 42.945 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:167 Resp: 94421

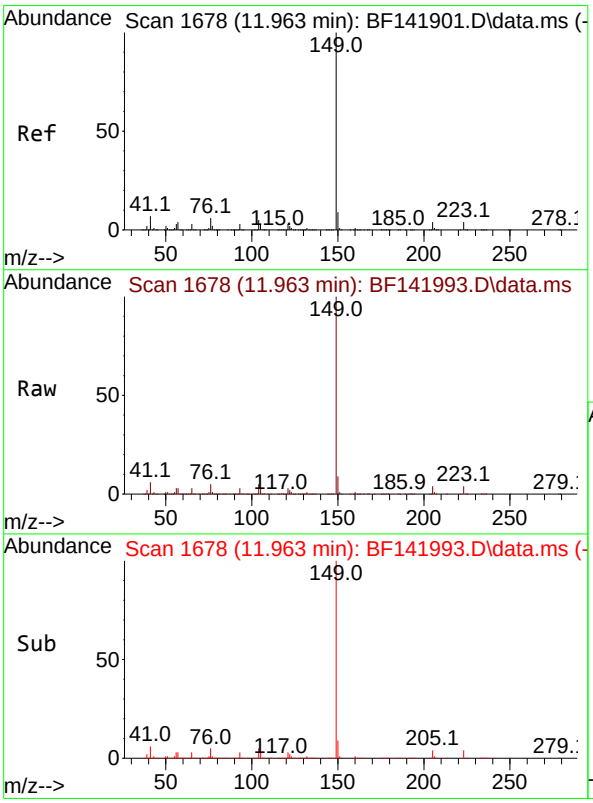
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.5	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

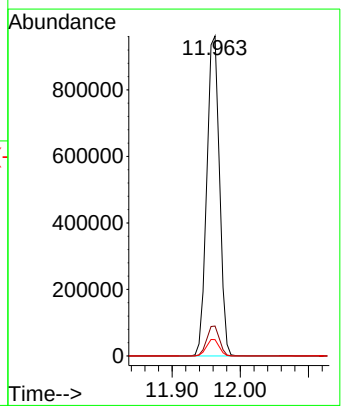
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

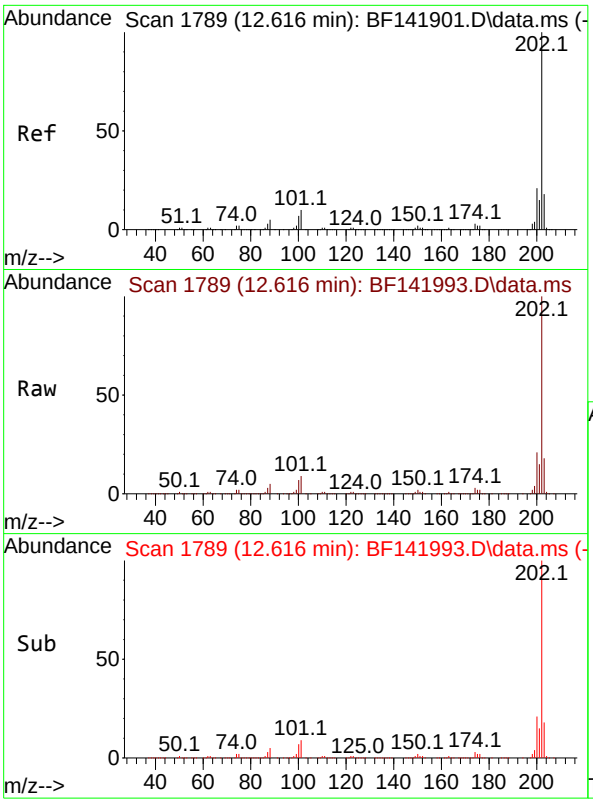


#74
Di-n-butylphthalate
Concen: 42.737 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:149 Resp: 1246779

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.6	11.4
104	5.1	4.4	6.6

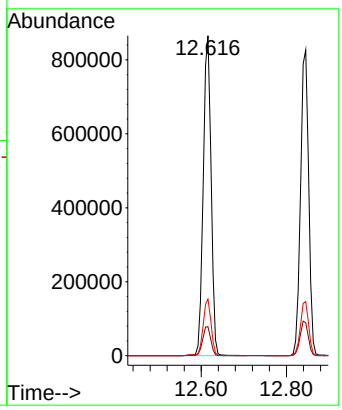




#75
Fluoranthene
Concen: 41.046 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:202 Resp: 110642

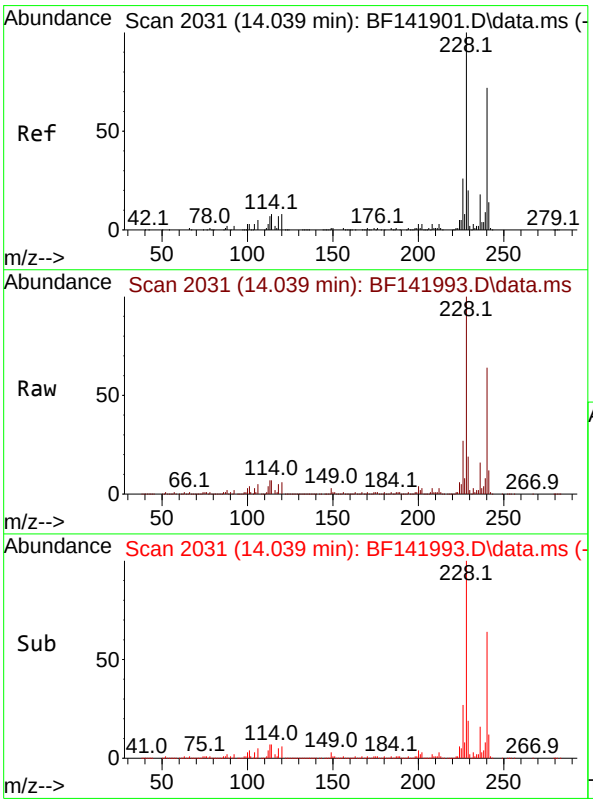
Ion	Ratio	Lower	Upper
202	100		
101	9.0	0.0	29.7
203	17.6	0.0	37.8



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

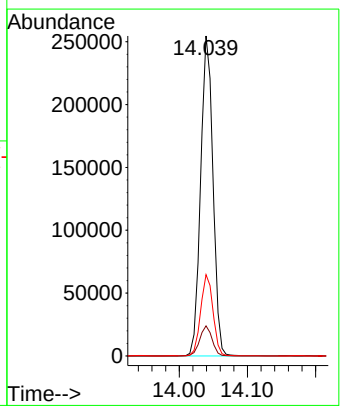
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

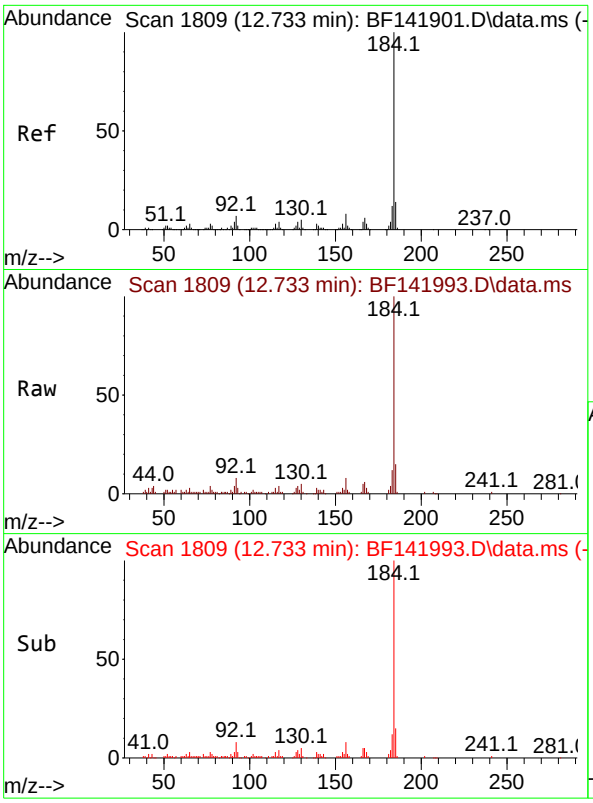


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:240 Resp: 320562

Ion	Ratio	Lower	Upper
240	100		
120	9.4	8.4	12.6
236	25.4	20.5	30.7

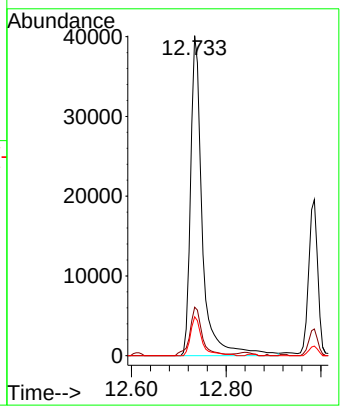




#77
Benzidine
Concen: 15.413 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

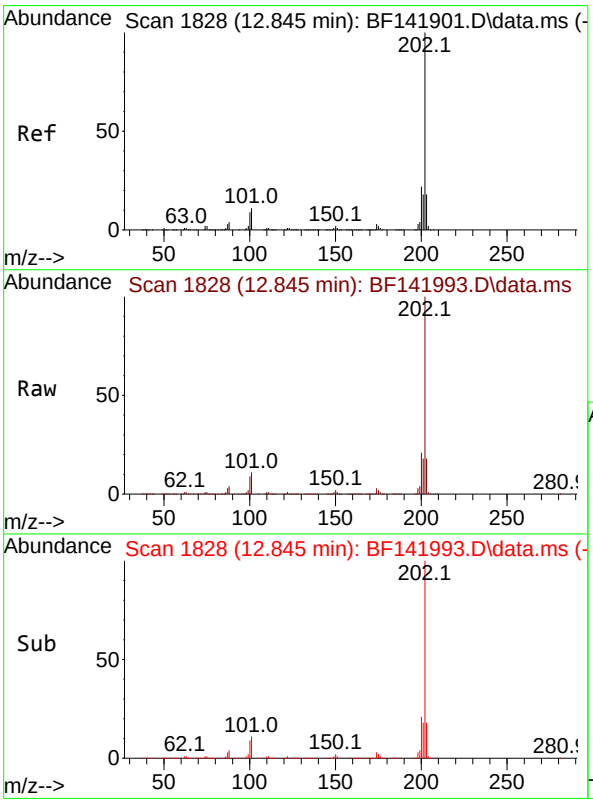
Tgt Ion:184 Resp: 6893

Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.5	17.3
183	12.1	9.7	14.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

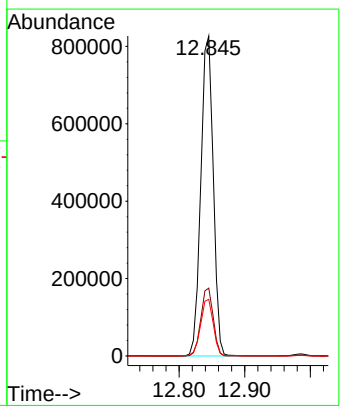
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

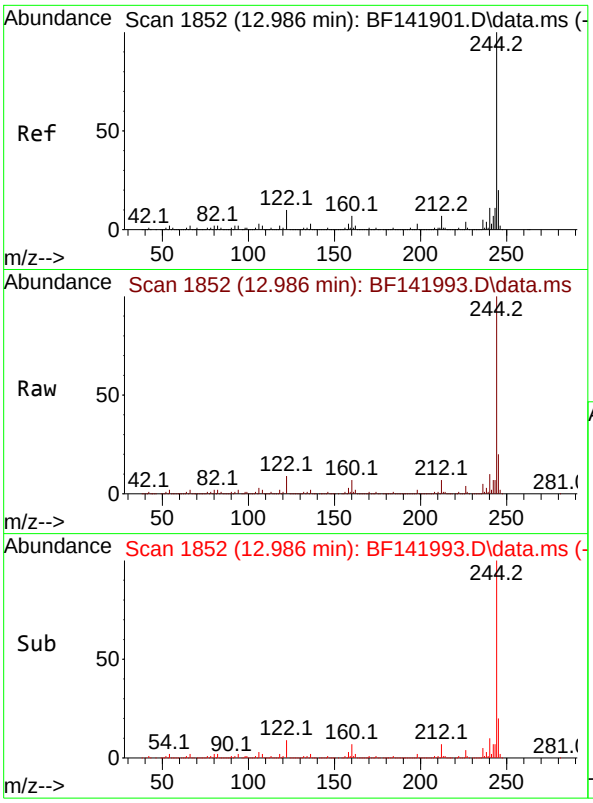


#78
Pyrene
Concen: 39.418 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:202 Resp: 1093026

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.3	25.9
203	17.7	14.4	21.6

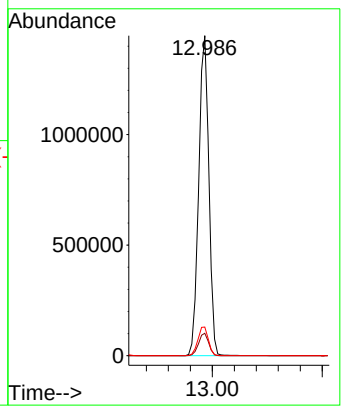




#79
Terphenyl-d14
Concen: 85.689 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:244 Resp: 185793

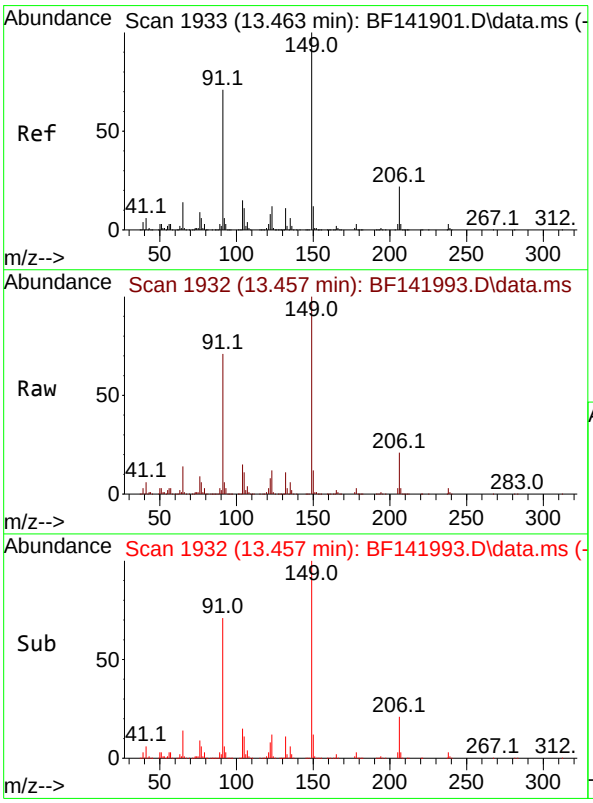
Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	9.0	7.7	11.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

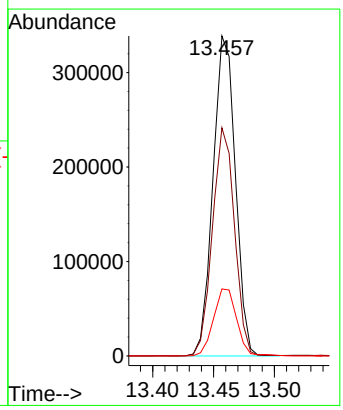
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

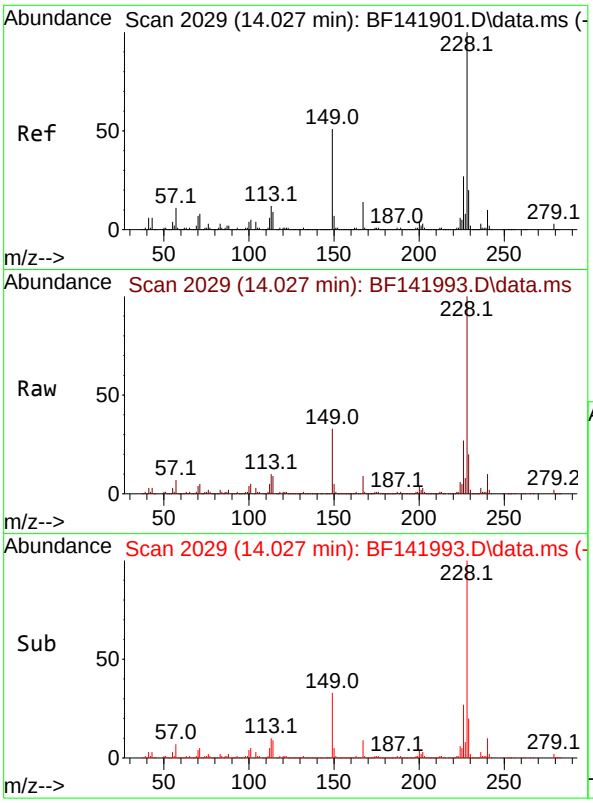


#80
Butylbenzylphthalate
Concen: 39.902 ng
RT: 13.457 min Scan# 1932
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:149 Resp: 433069

Ion	Ratio	Lower	Upper
149	100		
91	71.3	56.5	84.7
206	21.0	17.3	25.9

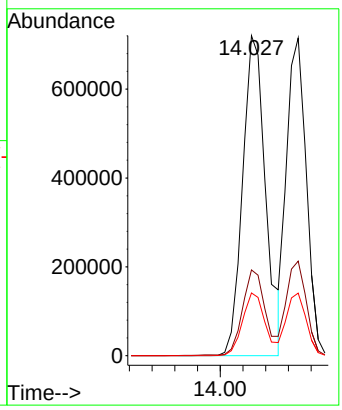




#81
Benzo(a)anthracene
Concen: 48.029 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:228 Resp: 101031

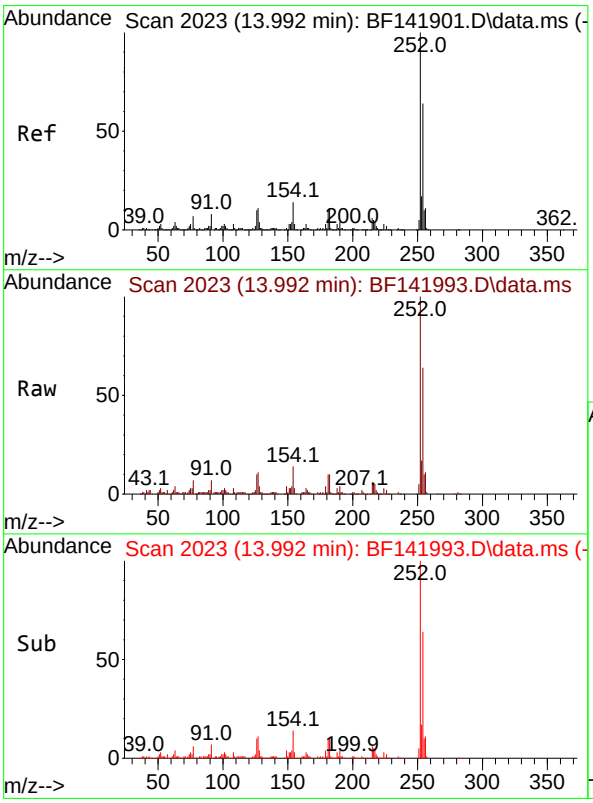
Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.8	32.8
229	19.6	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

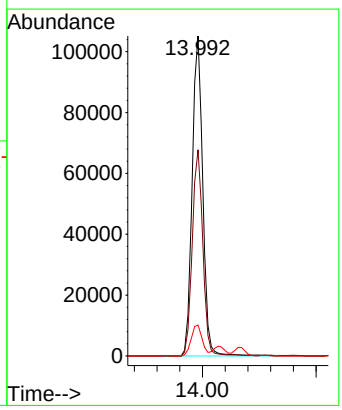
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

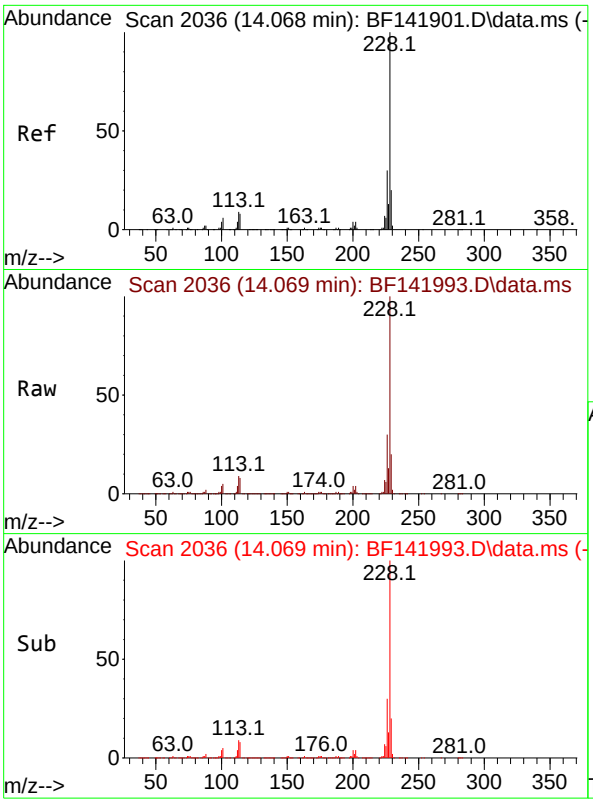


#82
3,3'-Dichlorobenzidine
Concen: 22.534 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:252 Resp: 136983

Ion	Ratio	Lower	Upper
252	100		
254	64.5	51.0	76.6
126	9.7	8.4	12.6

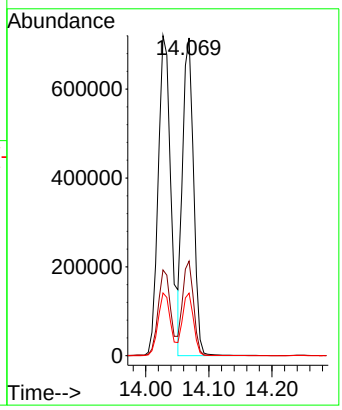




#83
Chrysene
Concen: 45.312 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:228 Resp: 86400

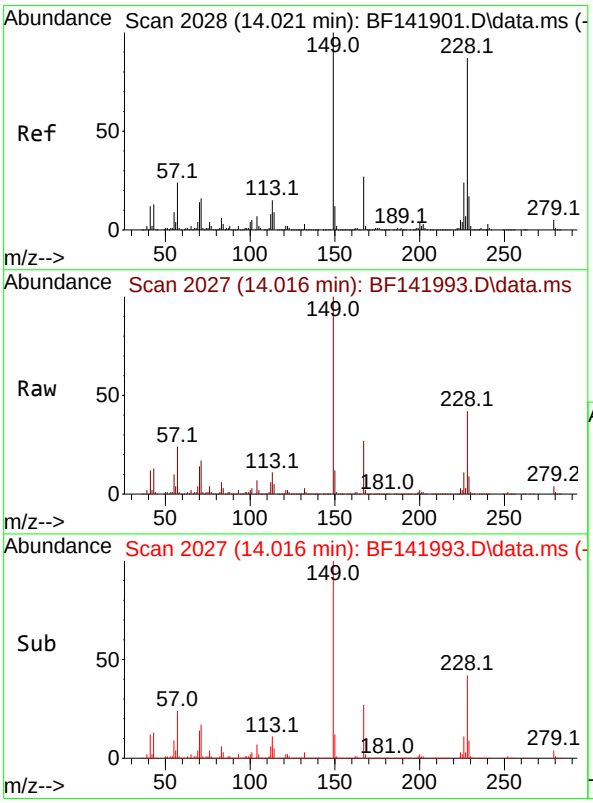
Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.1	36.1
229	19.7	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

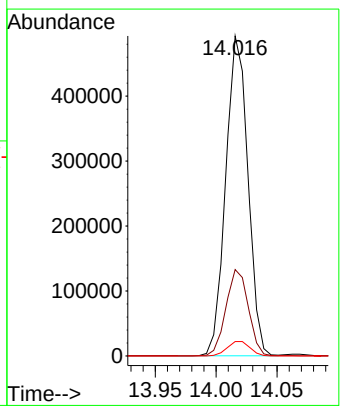
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

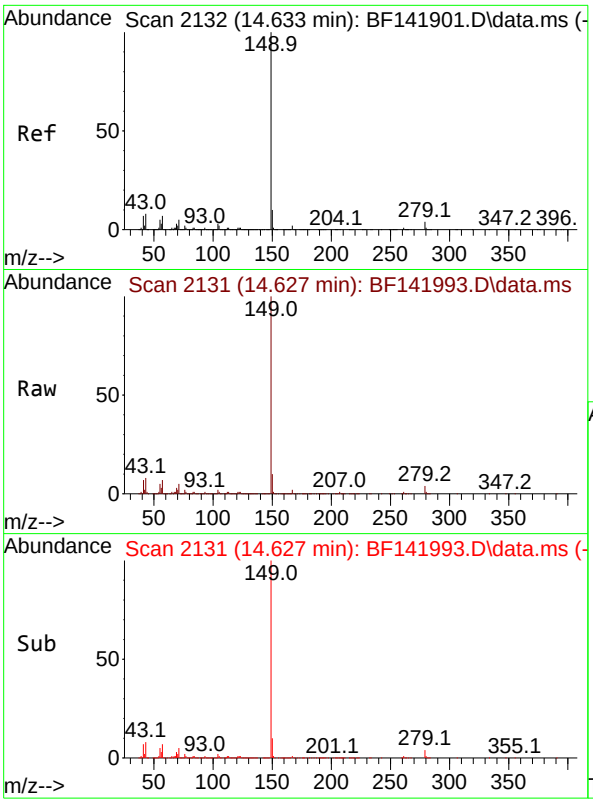


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.728 ng
RT: 14.016 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:149 Resp: 624421

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.4	32.0
279	4.5	3.8	5.6

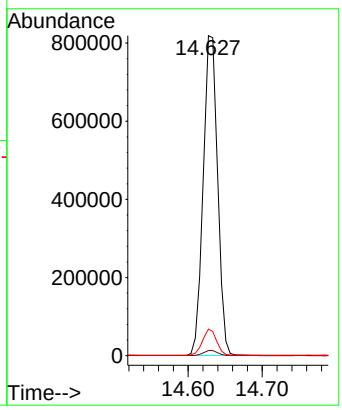




#85
Di-n-octyl phthalate
Concen: 53.136 ng
RT: 14.627 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:149 Resp: 110635

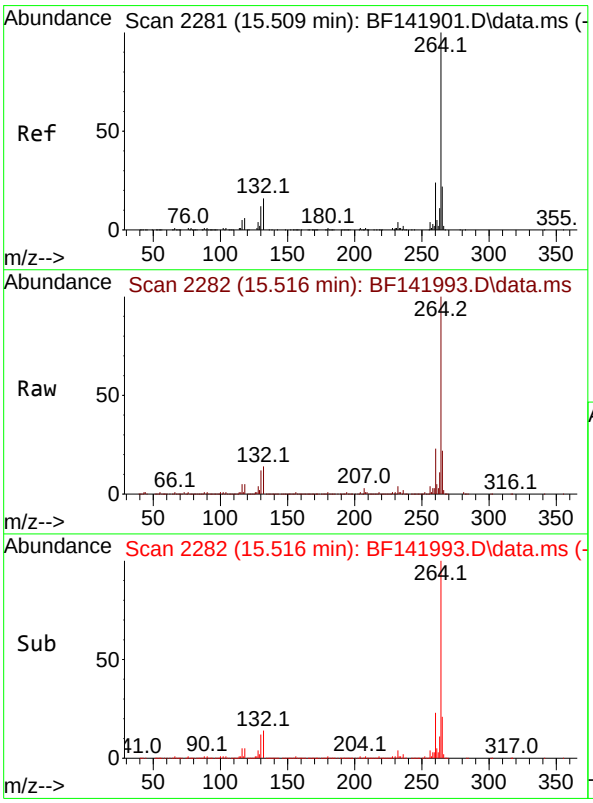
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.9	6.9	10.3



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

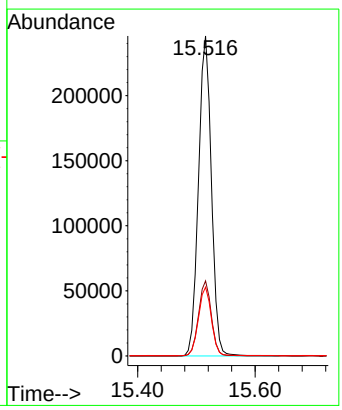
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

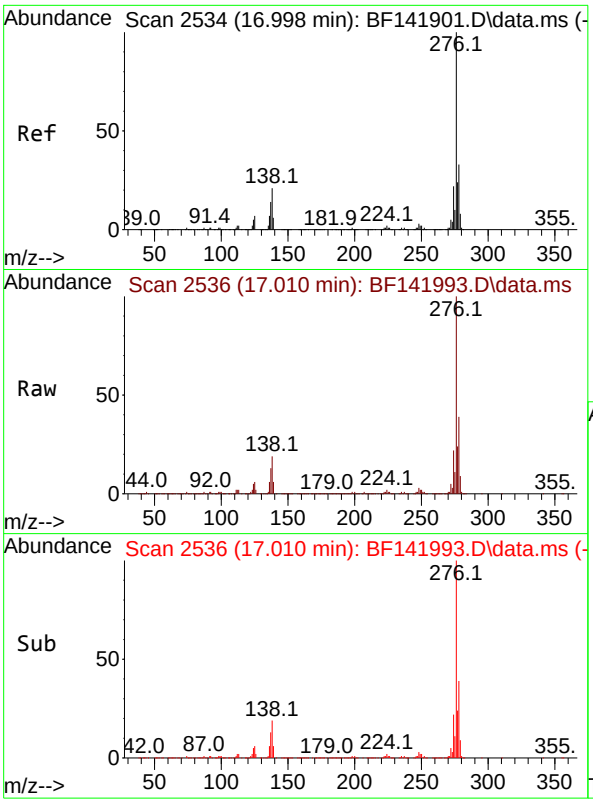


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.516 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:264 Resp: 374866

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.1	28.7
265	21.5	17.5	26.3

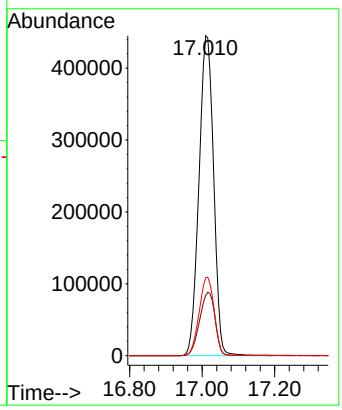




#87
Indeno(1,2,3-cd)pyrene
Concen: 51.446 ng
RT: 17.010 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:276 Resp: 124753

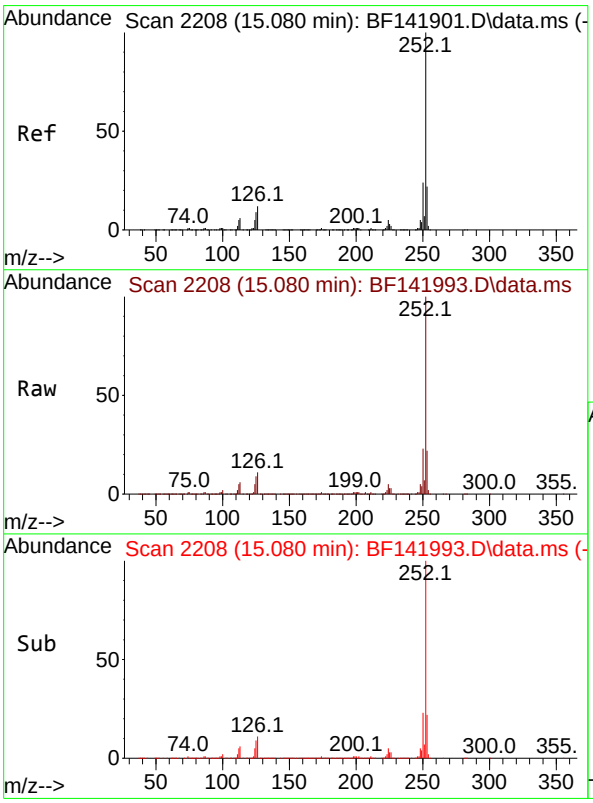
Ion	Ratio	Lower	Upper
276	100		
138	21.0	18.4	27.6
277	25.2	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations APPROVED

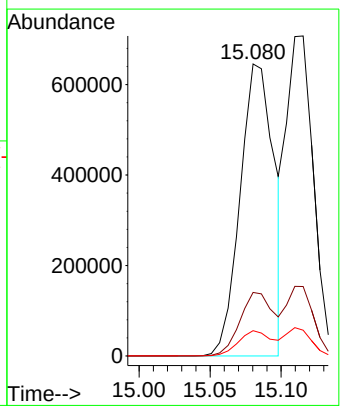
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

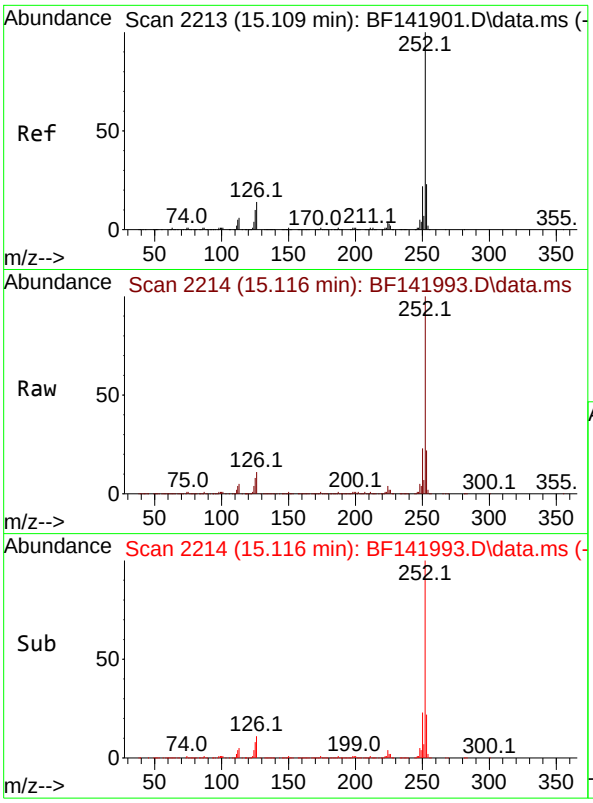


#88
Benzo(b)fluoranthene
Concen: 41.826 ng
RT: 15.080 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:252 Resp: 1074570

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	8.6	7.0	10.4

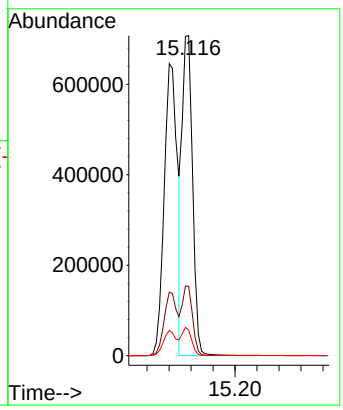




#89
Benzo(k)fluoranthene
Concen: 42.742 ng
RT: 15.116 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:252 Resp: 93972

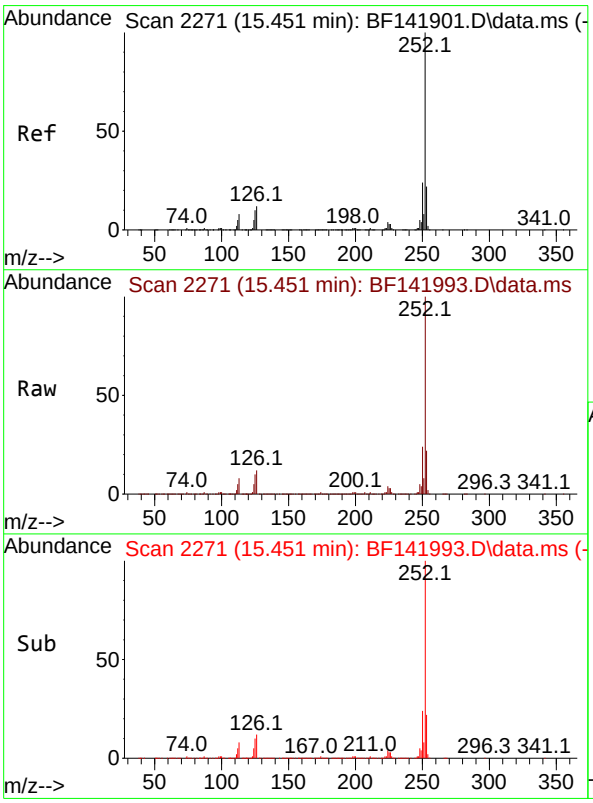
Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	8.0	7.2	10.8



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

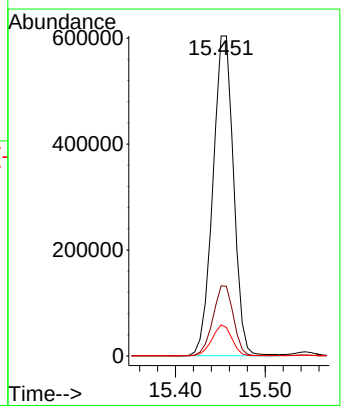
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025

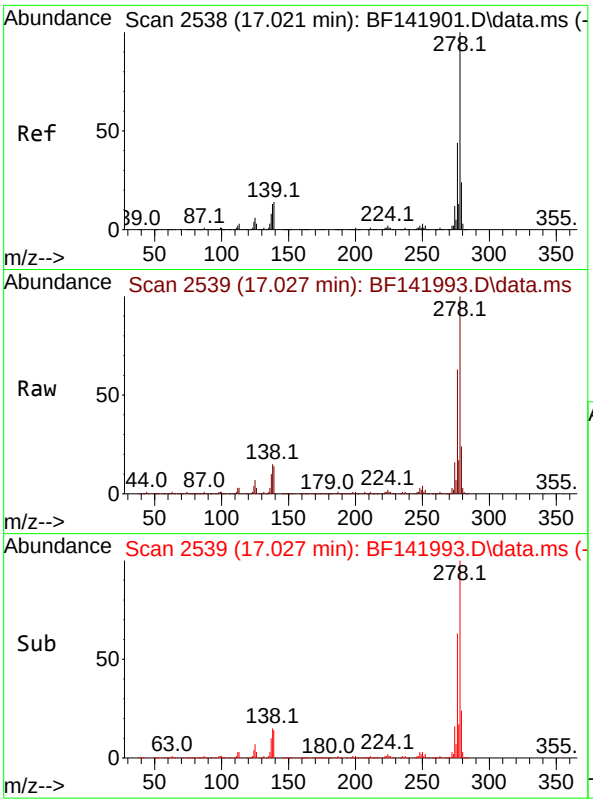


#90
Benzo(a)pyrene
Concen: 48.122 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:252 Resp: 967379

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	9.7	7.8	11.8

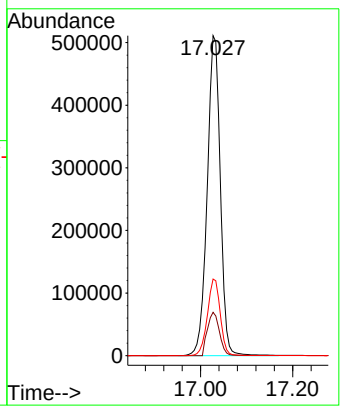




#91
Dibenzo(a,h)anthracene
Concen: 50.667 ng
RT: 17.027 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:278 Resp: 101372

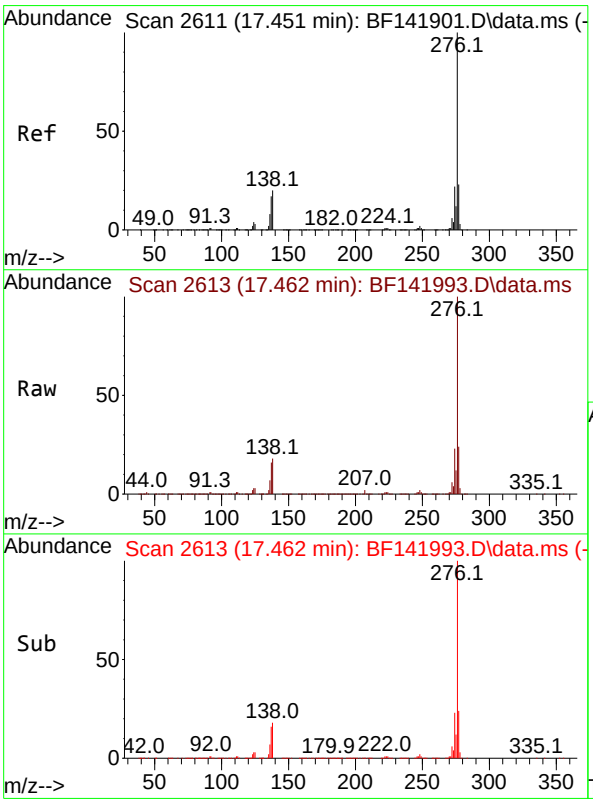
Ion	Ratio	Lower	Upper
278	100		
139	13.6	11.4	17.2
279	24.0	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Manual Integrations
APPROVED

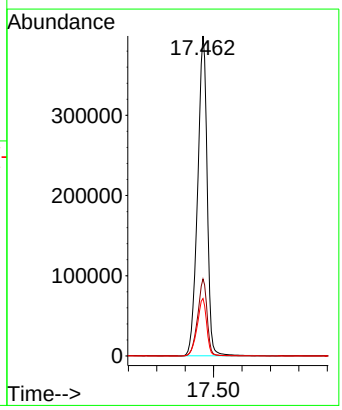
Reviewed By :Anahy Claudio 03/19/2025
Supervised By :mohammad ahmed 03/24/2025



#92
Benzo(g,h,i)perylene
Concen: 46.929 ng
RT: 17.462 min Scan# 2613
Delta R.T. 0.012 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:276 Resp: 927863

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.7	28.1
138	17.9	15.8	23.8



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

Manual Integration Report

Sequence:	BF031025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC080	BF141904.D	Caprolactam	anahy	3/11/2025 9:10:54 AM	Jagrut	3/11/2025 10:18:21 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF031825	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167168BS	BF141988.D	Caprolactam	anahy	3/19/2025 8:55:22 AM	Jagrut	3/20/2025 5:00:16 PM	Peak Integrated by Software
Q1568-04MS	BF141992.D	Benzoic acid	anahy	3/19/2025 8:57:10 AM	Jagrut	3/20/2025 5:00:21 PM	Peak Integrated by Software
Q1568-04MS	BF141992.D	Caprolactam	anahy	3/19/2025 8:57:10 AM	Jagrut	3/20/2025 5:00:21 PM	Peak Integrated by Software
Q1568-04MSD	BF141993.D	Benzoic acid	anahy	3/19/2025 8:59:07 AM	Jagrut	3/20/2025 5:00:19 PM	Peak Integrated by Software
Q1568-04MSD	BF141993.D	Caprolactam	anahy	3/19/2025 8:59:07 AM	Jagrut	3/20/2025 5:00:19 PM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF031025

Review By	anahy	Review On	3/11/2025 9:11:47 AM		
Supervise By	Jagrut	Supervise On	3/11/2025 10:18:40 AM		
SubDirectory	BF031025	HP Acquire Method	BNA_F	HP Processing Method	bf031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141896.D	10 Mar 2025 10:31	RC/JU	Ok
2	SSTDICC2.5	BF141897.D	10 Mar 2025 11:01	RC/JU	Ok
3	SSTDICC005	BF141898.D	10 Mar 2025 11:30	RC/JU	Ok
4	SSTDICC010	BF141899.D	10 Mar 2025 12:00	RC/JU	Ok
5	SSTDICC020	BF141900.D	10 Mar 2025 12:29	RC/JU	Ok
6	SSTDICCC040	BF141901.D	10 Mar 2025 12:58	RC/JU	Ok
7	SSTDICC050	BF141902.D	10 Mar 2025 13:28	RC/JU	Not Ok
8	SSTDICC060	BF141903.D	10 Mar 2025 13:57	RC/JU	Ok
9	SSTDICC080	BF141904.D	10 Mar 2025 14:27	RC/JU	Ok,M
10	SSTDICC050	BF141905.D	10 Mar 2025 15:20	RC/JU	Ok
11	SSTDICV040	BF141906.D	10 Mar 2025 15:53	RC/JU	Ok
12	PB167012BL	BF141907.D	10 Mar 2025 17:09	RC/JU	Ok
13	SP6752	BF141908.D	10 Mar 2025 17:39	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 # BF031825

Review By	anahy	Review On	3/19/2025 8:59:28 AM		
Supervise By	Jagrut	Supervise On	3/20/2025 5:01:44 PM		
SubDirectory	BF031825	HP Acquire Method	BNA_F	HP Processing Method	bf031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12655,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141985.D	18 Mar 2025 09:31	RC/JU	Ok
2	SSTDCCC040	BF141986.D	18 Mar 2025 10:00	RC/JU	Ok
3	PB167168BL	BF141987.D	18 Mar 2025 10:30	RC/JU	Ok
4	PB167168BS	BF141988.D	18 Mar 2025 10:59	RC/JU	Ok,M
5	PB167133TB	BF141989.D	18 Mar 2025 11:28	RC/JU	Ok
6	Q1569-02	BF141990.D	18 Mar 2025 12:03	RC/JU	Ok
7	Q1569-05	BF141991.D	18 Mar 2025 12:32	RC/JU	Ok
8	Q1568-04MS	BF141992.D	18 Mar 2025 13:01	RC/JU	Ok,M
9	Q1568-04MSD	BF141993.D	18 Mar 2025 13:31	RC/JU	Ok,M
10	SSTDCCC040	BF141994.D	18 Mar 2025 14:30	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF031025

Review By	anahy	Review On	3/11/2025 9:11:47 AM		
Supervise By	Jagrut	Supervise On	3/11/2025 10:18:40 AM		
SubDirectory	BF031025	HP Acquire Method	BNA_F	HP Processing Method	bf031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141896.D	10 Mar 2025 10:31		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141897.D	10 Mar 2025 11:01		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141898.D	10 Mar 2025 11:30	Compound#9,32,54,65 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF141899.D	10 Mar 2025 12:00		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF141900.D	10 Mar 2025 12:29	Compound #54 Kept on LR, Method is good for DOD . Method failed for compound #77.	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF141901.D	10 Mar 2025 12:58		RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF141902.D	10 Mar 2025 13:28	Not used	RC/JU	Not Ok
8	SSTDICC060	SSTDICC060	BF141903.D	10 Mar 2025 13:57	Compound#69 Removed from 60 ppm	RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141904.D	10 Mar 2025 14:27	Compound#9,69 Removed from 80 ppm	RC/JU	Ok,M
10	SSTDICC050	SSTDICC050	BF141905.D	10 Mar 2025 15:20		RC/JU	Ok
11	SSTDICV040	ICVBF031025	BF141906.D	10 Mar 2025 15:53		RC/JU	Ok
12	PB167012BL	PB167012BL	BF141907.D	10 Mar 2025 17:09		RC/JU	Ok
13	SP6752	SP6752	BF141908.D	10 Mar 2025 17:39	8270 SPIKE-SP6752	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 # BF031825

Review By	anahy	Review On	3/19/2025 8:59:28 AM		
Supervise By	Jagrut	Supervise On	3/20/2025 5:01:44 PM		
SubDirectory	BF031825	HP Acquire Method	BNA_F	HP Processing Method	bf031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12655,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141985.D	18 Mar 2025 09:31		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141986.D	18 Mar 2025 10:00		RC/JU	Ok
3	PB167168BL	PB167168BL	BF141987.D	18 Mar 2025 10:30		RC/JU	Ok
4	PB167168BS	PB167168BS	BF141988.D	18 Mar 2025 10:59		RC/JU	Ok,M
5	PB167133TB	PB167133TB	BF141989.D	18 Mar 2025 11:28		RC/JU	Ok
6	Q1569-02	TAP-IDW-SOIL-031325	BF141990.D	18 Mar 2025 12:03		RC/JU	Ok
7	Q1569-05	TAP-IDW-SOIL-031325	BF141991.D	18 Mar 2025 12:32		RC/JU	Ok
8	Q1568-04MS	JC-03-03132025MS	BF141992.D	18 Mar 2025 13:01		RC/JU	Ok,M
9	Q1568-04MSD	JC-03-03132025MSD	BF141993.D	18 Mar 2025 13:31		RC/JU	Ok,M
10	SSTDCCC040	SSTDCCC040EC	BF141994.D	18 Mar 2025 14:30		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167133

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1

TCLP Filter ID : 115525

Start Prep Date : 03/14/2025 **Time :** 14:00

End Prep Date : 03/15/2025 **Time :** 08:30

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 18

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : 18

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	W3172.	W1931,W1934,W3171,W3172
N/A	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked.30 rpm. Particle size reduction is not required. q1568-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03117125 10:00	18 /TCLP Room	[illegible] /EXT
	Preparation Group	Analysis Group /MET 3/19

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167133

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167133TB	LEB133	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1
Q1507-04	50-MIDDLESEX-AVE	01	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q1568-04	JC-03-03132025	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1569-02	TAP-IDW-SOIL-031325-01	03	100.01	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1569-05	TAP-IDW-SOIL-031325-02	04	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1574-02	WC1	05	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167133TB	LEB133	N/A	N/A	N/A	N/A	N/A	N/A
Q1507-04	50-MIDDLESEX-AVE	N/A	N/A	N/A	N/A	100	N/A
Q1568-04	JC-03-03132025	N/A	N/A	N/A	N/A	100	N/A
Q1569-02	TAP-IDW-SOIL-031325-01	N/A	N/A	N/A	N/A	100	N/A
Q1569-05	TAP-IDW-SOIL-031325-02	N/A	N/A	N/A	N/A	100	N/A
Q1574-02	WC1	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167133

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167133TB	LEB133	N/A	N/A	N/A	N/A	#1	4.93
Q1507-04	50-MIDDLESEX-AVE	5.02	96.5	7.0	2.5	#1	4.93
Q1568-04	JC-03-03132025	5.01	96.5	7.0	2.5	#1	4.93
Q1569-02	TAP-IDW-SOIL-031325-01	5.03	96.5	6.8	2.0	#1	4.93
Q1569-05	TAP-IDW-SOIL-031325-02	5.04	96.5	10.0	4.0	#1	4.93
Q1574-02	WC1	5.03	96.5	6.8	2.0	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1569 **WorkList ID :** 188283 **Department :** TCLP Extraction **Date :** 03-14-2025 11:14:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1507-04	50-MIDDLESEX-AVE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I21	03/06/2025	1311
Q1568-04	JC-03-03132025	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	I41	03/13/2025	1311
Q1569-02	TAP-IDW-SOIL-031325-01	Solid	TCLP Extraction	Cool 4 deg C	WEST04	I33	03/13/2025	1311
Q1569-05	TAP-IDW-SOIL-031325-02	Solid	TCLP Extraction	Cool 4 deg C	WEST04		03/13/2025	1311
Q1574-02	WC1	Solid	TCLP Extraction	Cool 4 deg C	GENV01	I41	03/12/2025	1311

Date/Time 03/14/25 12:30

Raw Sample Received by: JP coil

Raw Sample Relinquished by: CP SM

Date/Time 03/14/25 15:00

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JP coil

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167168

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 03/17/2025

Extraction Start Time : 10:15

Extraction End Date : 03/17/2025

Extraction End Time : 15:15

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3904
Baked Na2SO4	N/A	EP2593
H2SO4 1:1	N/A	EP2565
10N NaoH	N/A	EP2559
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/17/25 15:20	RS (6,4,6b)	RC/SVOC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167168

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/17/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167133TB	PB167133TB	TCLP BNA	100	6	RUPESH	ritesh	1			SEP-1
PB167168BL	PB167168BL	TCLP BNA	1000	6	RUPESH	ritesh	1			2
PB167168BS	PB167168BS	TCLP BNA	1000	6	RUPESH	ritesh	1			3
Q1568-04	JC-03-03132025	TCLP BNA	100	6	RUPESH	ritesh	1	A		4
Q1568-04MS	JC-03-03132025MS	TCLP BNA	100	6	RUPESH	ritesh	1	A		5
Q1568-04MSD	JC-03-03132025MSD	TCLP BNA	100	6	RUPESH	ritesh	1	A		6
Q1569-02	TAP-IDW-SOIL-031325-01	TCLP BNA	100	6	RUPESH	ritesh	1	A		7
Q1569-05	TAP-IDW-SOIL-031325-02	TCLP BNA	100	6	RUPESH	ritesh	1	A		8

RS 3/17

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167133

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167133TB	LEB133	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1
Q1507-04	50-MIDDLESEX-AVE	01	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q1568-04	JC-03-03132025	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1569-02	TAP-IDW-SOIL-031325-01	03	100.01	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1569-05	TAP-IDW-SOIL-031325-02	04	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1574-02	WC1	05	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1

03/17/25
10:00

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

Prep Standard - Chemical Standard Summary

Order ID : Q1569

Test : TCLP BNA

Prepbatch ID : PB167168,

Sequence ID/Qc Batch ID: BF031825,

Standard ID :
EP2559,EP2565,EP2593,SP6638,SP6685,SP6686,SP6717,SP6720,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,

Chemical ID :
10ul/1000ul sample,E3551,E3657,E3815,E3828,E3846,E3871,E3874,E3904,M5173,S10104,S10246,S10397,S10584,S10978,S10979,S10980,S11004,S11005,S11006,S11007,S11008,S11009,S11010,S11074,S11087,S11143,S11161,S11487,S11495,S11650,S11781,S11782,S11783,S11784,S11785,S12114,S12142,S12143,S12144,S12145,S12146,S12187,S12188,S12189,S12207,S12208,S12270,S12276,S12327,S12469,S12470,S12471,S12472,S12473,S12474,S12475,S12476,S12477,S12478,S12517,S12518,S12519,S12520,S12521,S12522,S12523,S12524,S12525,S12649,S12655,S12791,S12963,S12964,S12965,S12966,W3112,

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2593	03/07/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 03/07/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6638	10/10/2024	04/04/2025	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024

FROM 1930.00000ml of E3815 + 5.00000ml of S10978 + 5.00000ml of S10979 + 5.00000ml of S10980 + 5.00000ml of S11004 + 5.00000ml of S11005 + 5.00000ml of S11006 + 5.00000ml of S11007 + 5.00000ml of S11008 + 5.00000ml of S11009 + 5.00000ml of S11010 + 5.00000ml of S12187 + 5.00000ml of S12188 + 5.00000ml of S12189 + 5.00000ml of S12207 = Final Quantity: 2000.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
18	Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP)	SP6685	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.04000ml of S12189 + 0.08000ml of S12208 + 0.10000ml of S11074 + 0.20000ml of S12142 + 0.20000ml of S12469 + 0.20000ml of S12517 + 1.18000ml of E3828 = Final Quantity: 2.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
416	40 ng BNA ICV, 40 PPM	SP6686	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6685 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel 01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
171	8270/625 Spike Solution, 50/100 PPM	SP6720	01/29/2025	04/30/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/06/2025

FROM 0.40000ml of S10397 + 0.40000ml of S10584 + 0.40000ml of S11143 + 0.40000ml of S11487 + 0.40000ml of S11650 + 0.40000ml of S12478 + 0.50000ml of S11781 + 0.50000ml of S12470 + 0.60000ml of S11785 + 0.90000ml of S12518 + 0.90000ml of S12966 + 1.30000ml of S11782 + 1.30000ml of S11783 + 1.30000ml of S11784 + 1.30000ml of S12143 + 1.30000ml of S12144 + 1.30000ml of S12145 + 1.30000ml of S12146 + 1.30000ml of S12471 + 1.30000ml of S12472 + 1.30000ml of S12473 + 1.30000ml of S12474 + 1.30000ml of S12475 + 1.30000ml of S12476 + 1.30000ml of S12477 + 1.30000ml of S12519 + 1.30000ml of S12520 + 1.30000ml of S12521 + 1.30000ml of S12522 + 1.30000ml of S12523 + 1.30000ml of S12524 + 1.30000ml of S12525 + 1.30000ml of S12963 + 1.30000ml of S12964 + 1.30000ml of S12965 + 163.00000ml of E3846 = Final Quantity: 200.000 ml

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	SP6721	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.26700ml of S10104 + 0.40000ml of S11495 + 0.50000ml of S12114 + 1.00000ml of S11087 + 1.00000ml of S11161 + 1.00000ml of S12270 + 1.00000ml of S12276 + 1.00000ml of S12791 + 3.83300ml of E3874 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
413	80 ng BNA ICC, 80 PPM	SP6722	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.20000ml of E3874 + 0.80000ml of SP6721 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
412	60 ng BNA ICC, 60 PPM	SP6723	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.40000ml of E3874 + 0.60000ml of SP6721 = 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	SP6724	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6721 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
410	40 ng BNA ICC, 40 PPM	SP6725	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.60000ml of E3874 + 0.40000ml of SP6721 = 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	SP6726	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.80000ml of E3874 + 0.20000ml of SP6721 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
408	10 ng BNA ICC, 10 PPM	SP6727	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.90000ml of E3874 + 0.10000ml of SP6721 = 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	SP6728	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.95000ml of E3874 + 0.05000ml of SP6721 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
175	2.5 ng BNA ICC, 2.5 PPM	SP6729	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6728 = Final Quantity: 1.010 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0185300	05/31/2025	01/29/2025 / anahy	05/18/2022 / Christian	S10397

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555868 / Custom Standard, Benzidine Std [CS 5328-1]	A0186373	06/30/2025	01/29/2025 / anahy	07/05/2022 / Christian	S10584

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10980

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11004

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11005

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11006

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11007

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11008

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11010

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	07/30/2025	01/30/2025 / anahy	02/07/2023 / Christian	S11087

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0194702	07/29/2025	01/29/2025 / anahy	02/20/2023 / Christian	S11143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	06/21/2025	01/30/2025 / anahy	03/06/2023 / Christian	S11161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0200549	08/31/2026	01/29/2025 / anahy	08/10/2023 / yogesh	S11487

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	06/26/2025	12/26/2024 / Jagrut	11/21/2023 / Rahul	S11781

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11783

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12187

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12188

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12276

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/12/2025	11/12/2024 / anahy	05/30/2024 / Rahul	S12327

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/26/2025	11/26/2024 / Jagrut	07/23/2024 / RAHUL	S12470

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12471

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12473

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12474

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12475

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12476

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12477

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/03/2025	01/03/2025 / Jagrut	07/23/2024 / RAHUL	S12518

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12520

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12523

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	07/21/2025	01/21/2025 / anahy	09/20/2024 / anahy	S12649

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	09/13/2025	03/13/2025 / Jagrut	09/20/2024 / anahy	S12655

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12963

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12964

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12965

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG

S11084
to
S11088

*Not a certified value

Certified By: _____
Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110817-01	414125	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK®
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 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)

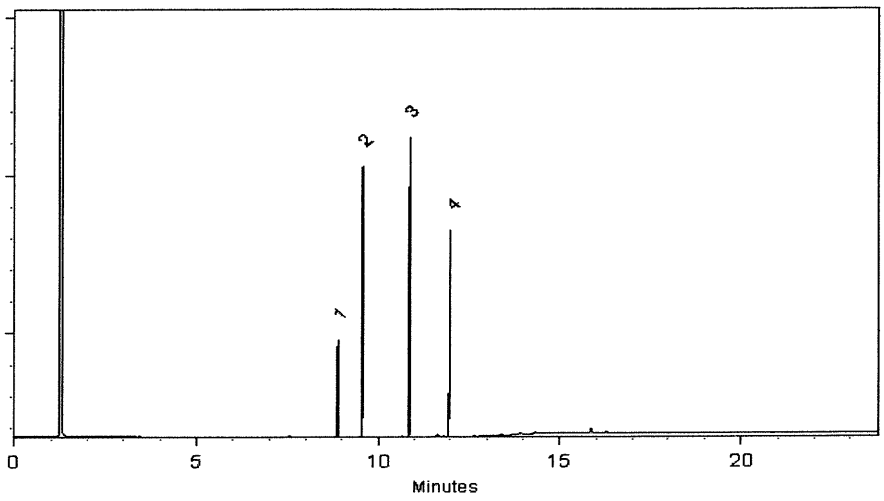
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 S10583 to S10592

Catalog No. : 555868 **Lot No.:** A0186373

Description : Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzidine	25,200.0 µg/mL	+/- 233.2055 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 220511RSR)		+/- 351.6606 µg/mL	Unstressed
	Purity 99%		+/- 512.6054 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 16-Jun-2022 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

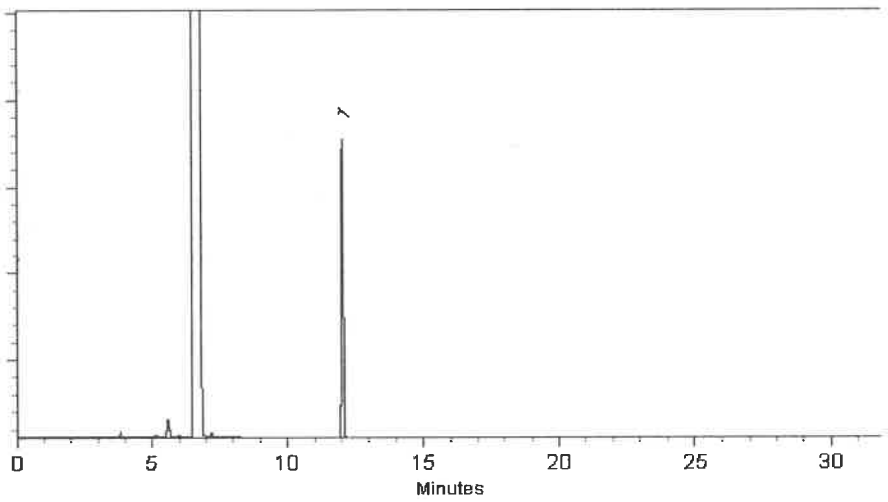
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

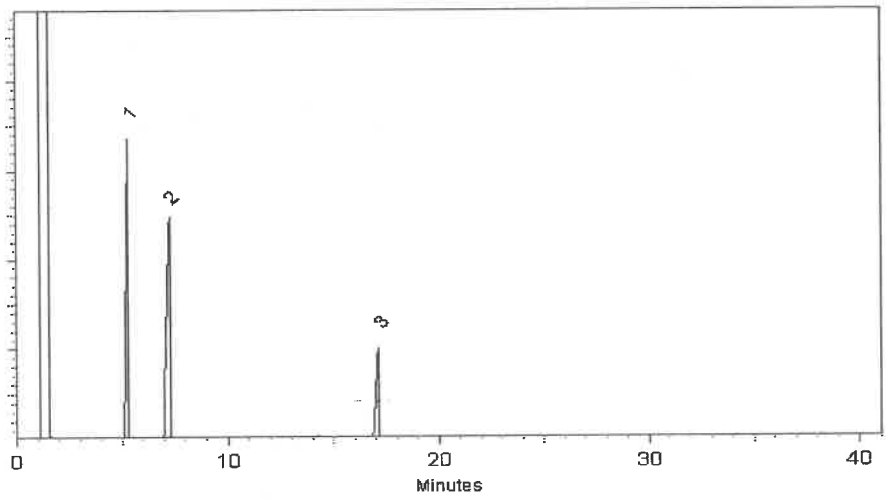
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

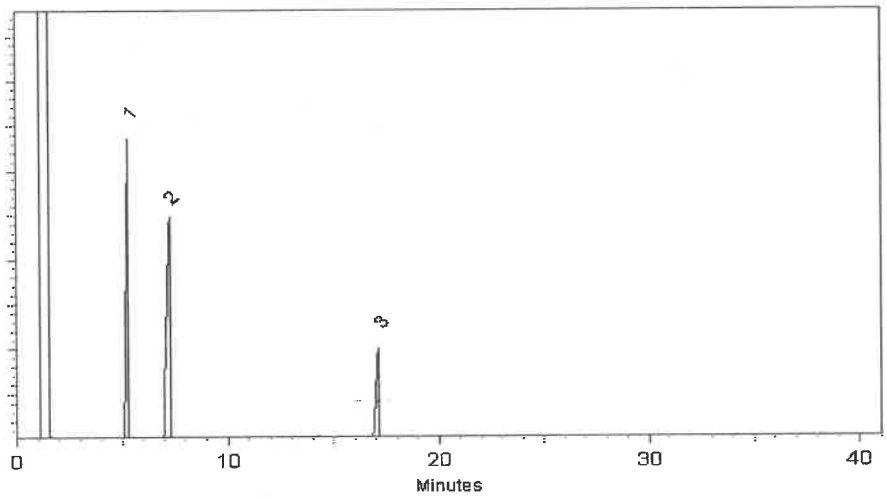
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

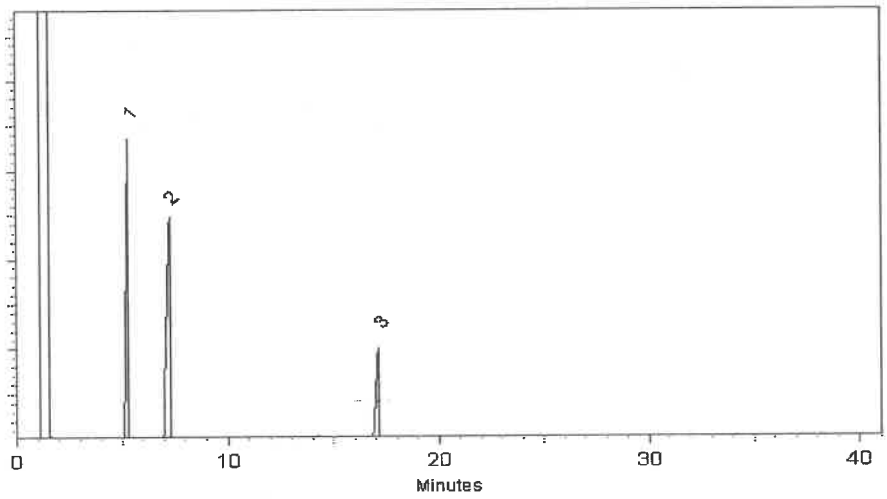
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

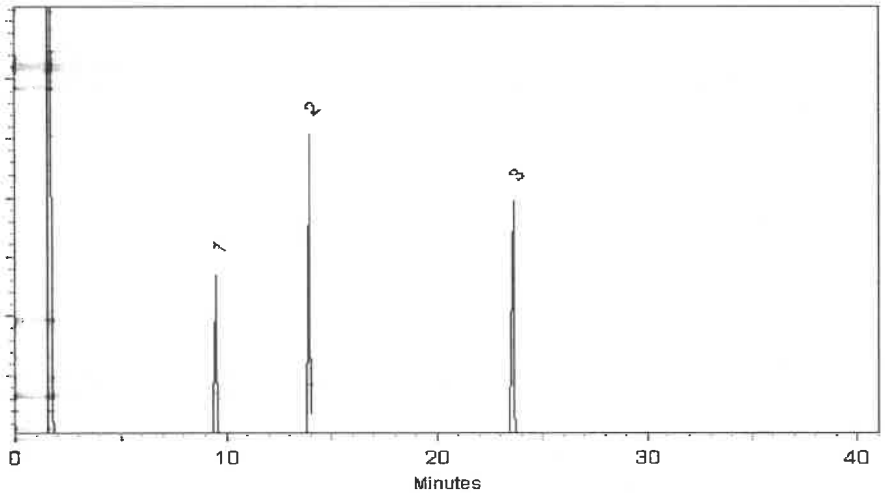
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5		5,009.8 µg/mL	+/- 29.1271 µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421 µg/mL	Unstressed
	Purity 99%			+/- 250.3778 µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250 µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003 µg/mL	Unstressed
	Purity 99%			+/- 251.2191 µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289 µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304 µg/mL	Unstressed
	Purity 99%			+/- 251.2524 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

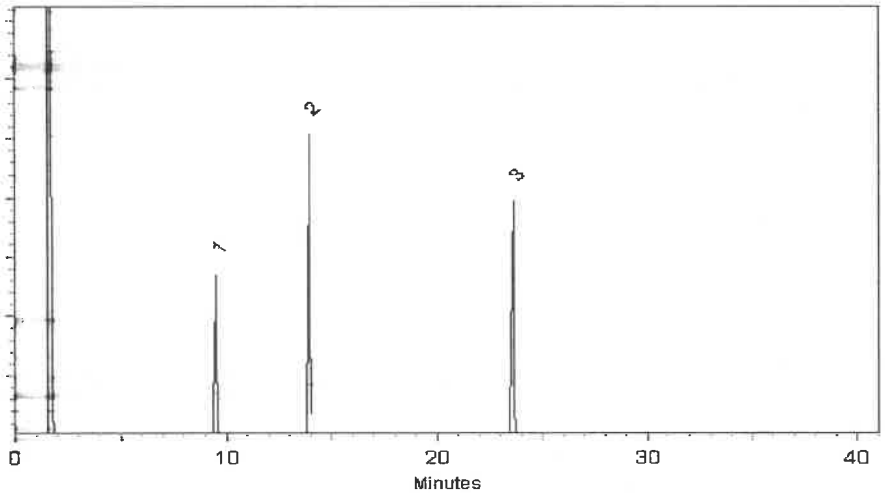
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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		5,009.8 µg/mL	+/- 29.1271 µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421 µg/mL	Unstressed
	Purity 99%			+/- 250.3778 µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250 µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003 µg/mL	Unstressed
	Purity 99%			+/- 251.2191 µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289 µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304 µg/mL	Unstressed
	Purity 99%			+/- 251.2524 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

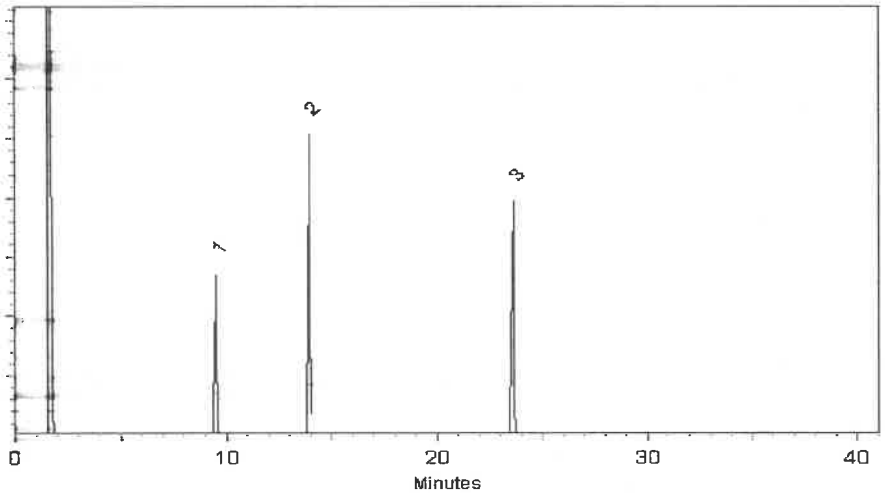
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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		5,009.8 µg/mL	+/- 29.1271 µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421 µg/mL	Unstressed
	Purity 99%			+/- 250.3778 µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250 µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003 µg/mL	Unstressed
	Purity 99%			+/- 251.2191 µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289 µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304 µg/mL	Unstressed
	Purity 99%			+/- 251.2524 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

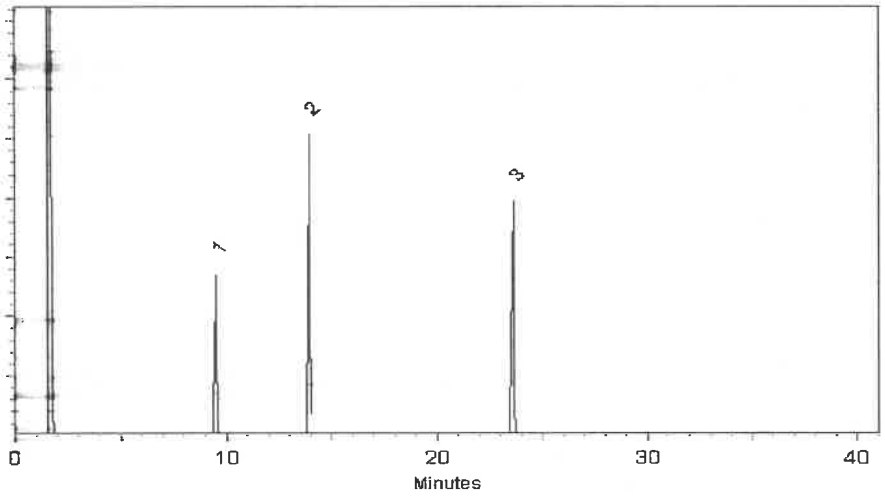
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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)

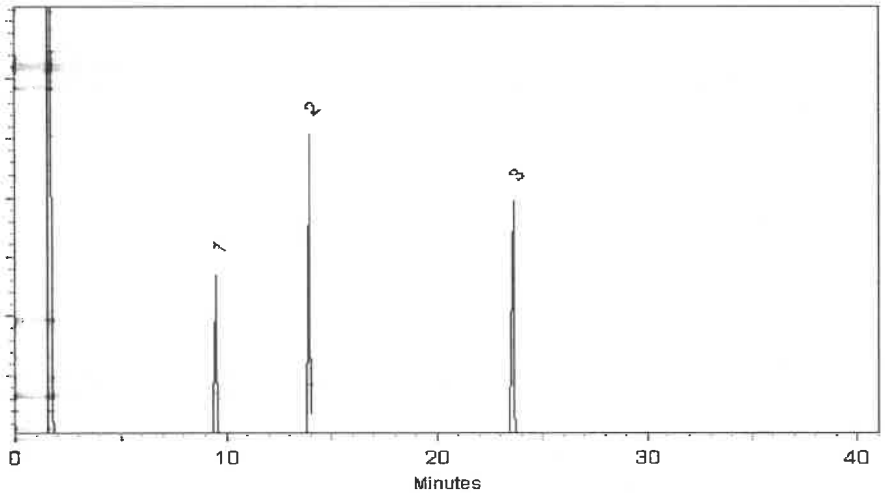
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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 **Purity** 99%	(Lot PR-29940A)	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 **Purity** 99%	(Lot 00021384)	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 **Purity** 99%	(Lot PR-30504)	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

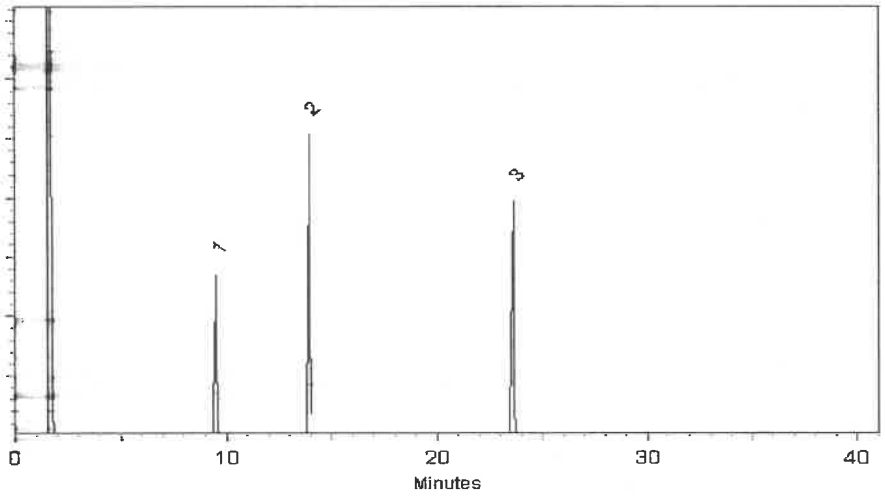
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
$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		5,009.8 µg/mL	+/- 29.1271 µg/mL		Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421 µg/mL		Unstressed
	Purity 99%			+/- 250.3778 µg/mL		Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250 µg/mL		Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003 µg/mL		Unstressed
	Purity 99%			+/- 251.2191 µg/mL		Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289 µg/mL		Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304 µg/mL		Unstressed
	Purity 99%			+/- 251.2524 µg/mL		Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

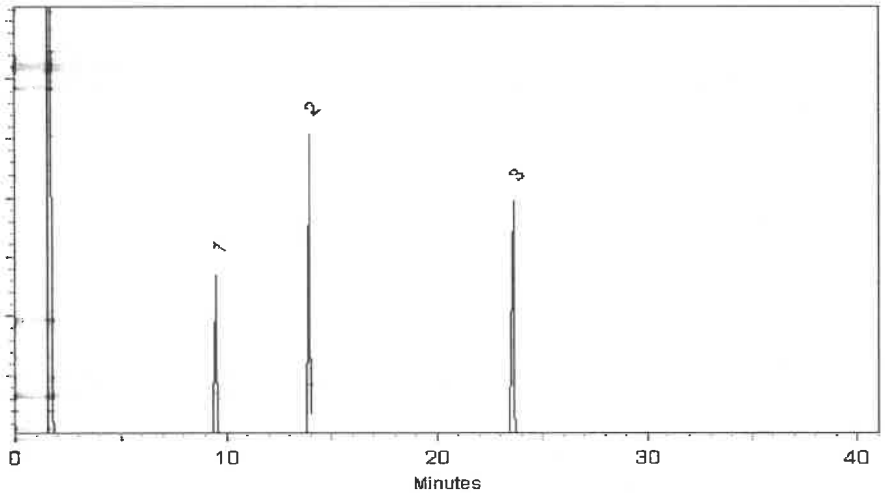
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555869 **Lot No.:** A0194702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	Hexachlorocyclopentadiene	77-47-4	0012019	99%	25,008.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek Registered Quality Certificate #FM

tified Reference Material Notes

tes:

n date valid for unopened ampul stored in compliance with the recommended conditions.

nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3815

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 12/13/24

E 3846

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

12/9-1/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3871

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3904

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

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

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.

S11484 ↓ S11493 Y.P. 08/10/23

Catalog No. : 555870 **Lot No.:** A0200549

Description : Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	25,008.0 µg/mL	+/- 777.3323

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 02-Aug-2023 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

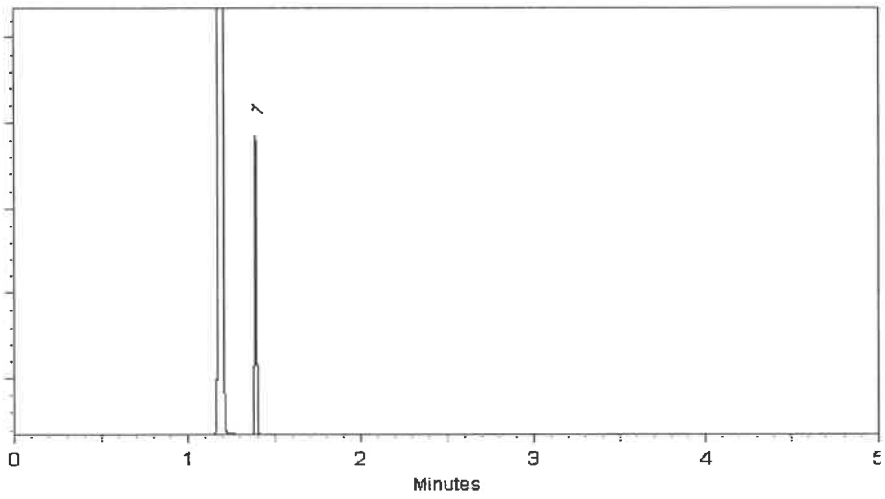
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

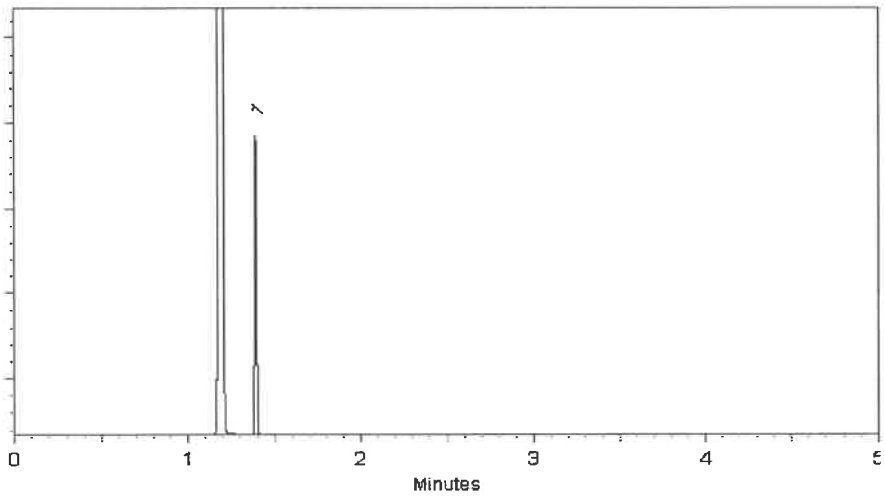
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

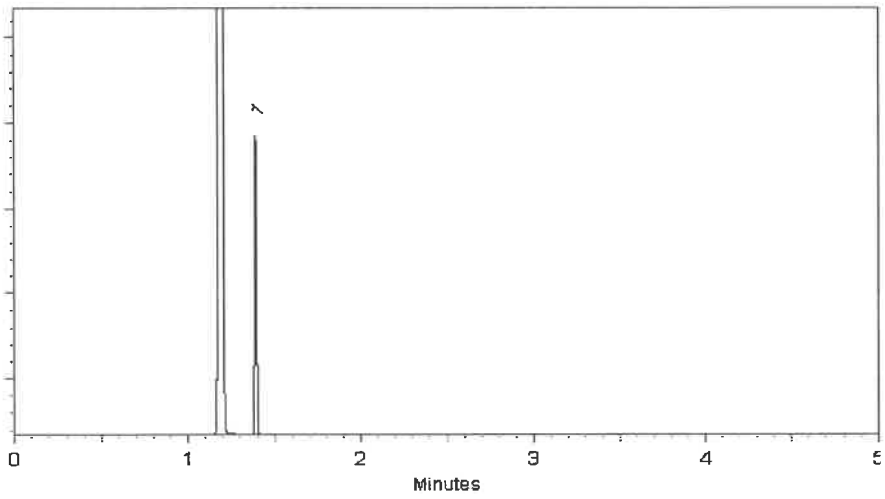
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

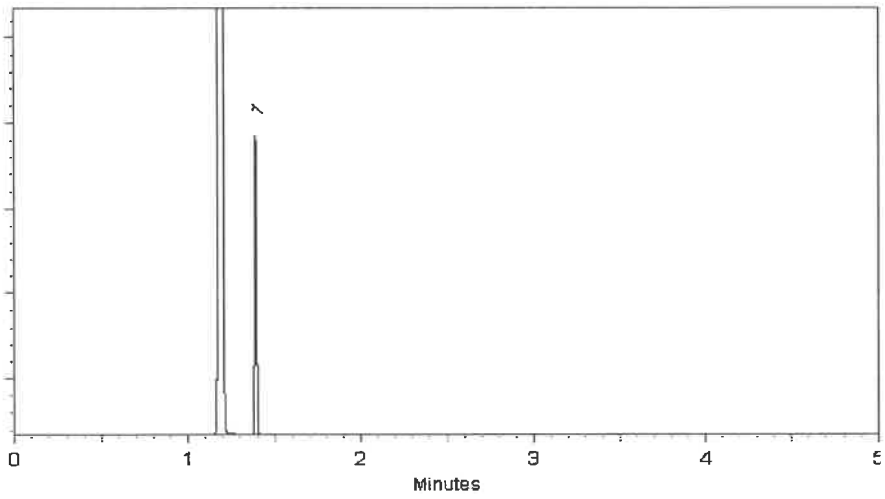
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

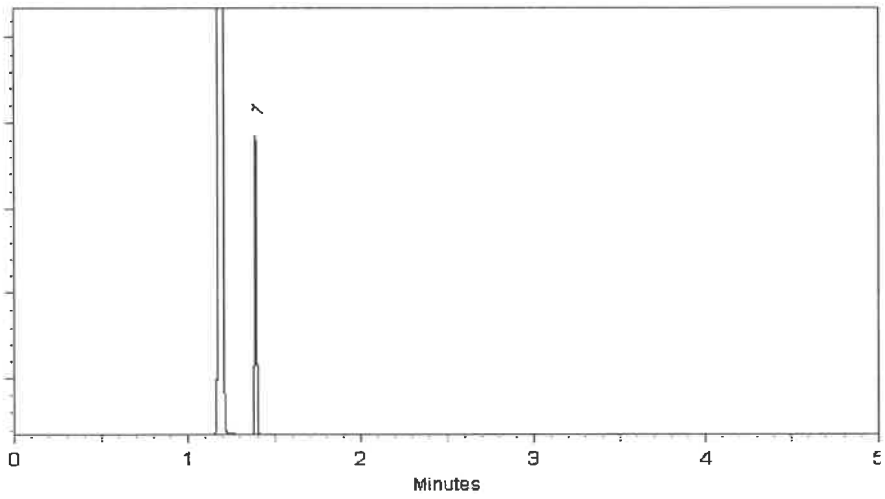
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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

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

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

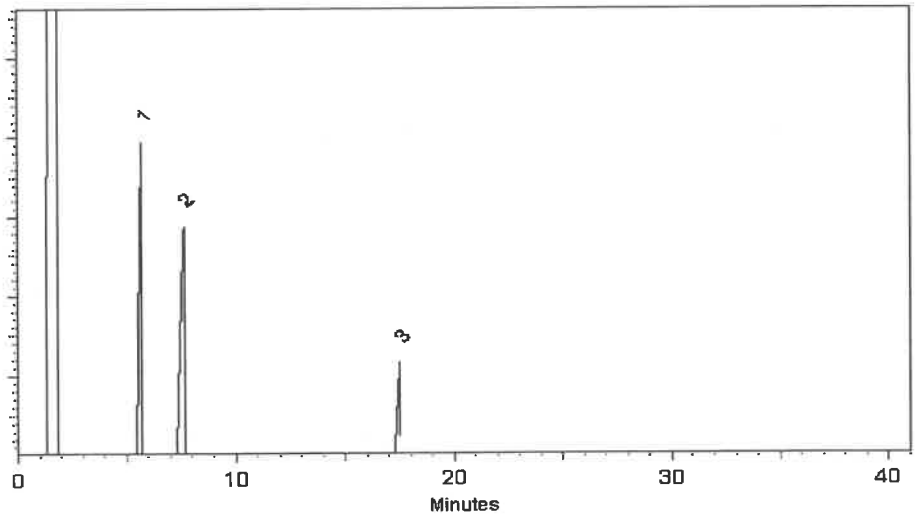
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

S12187 ↓ S12206 } RC/ 03/18/24

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

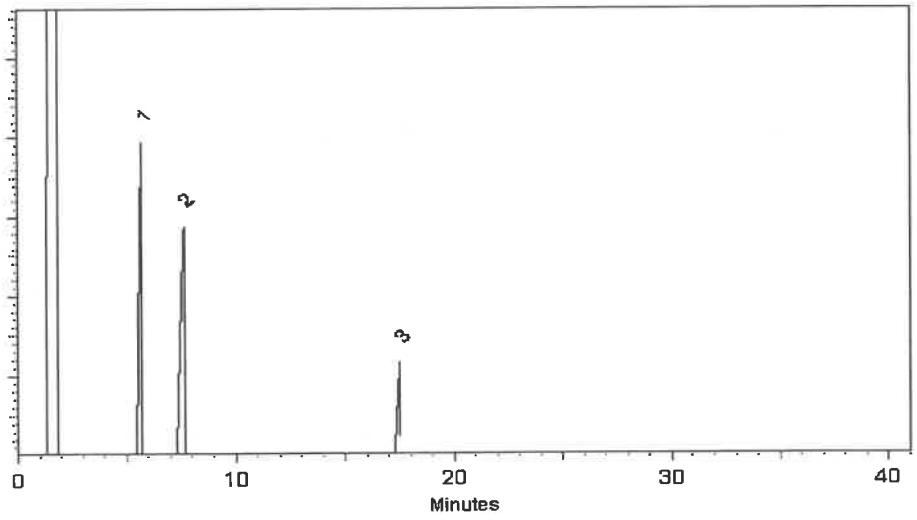
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

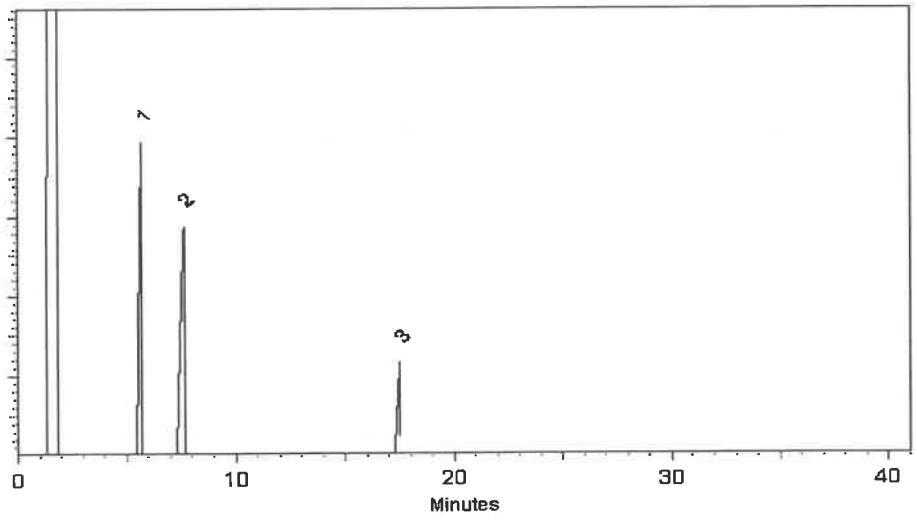
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

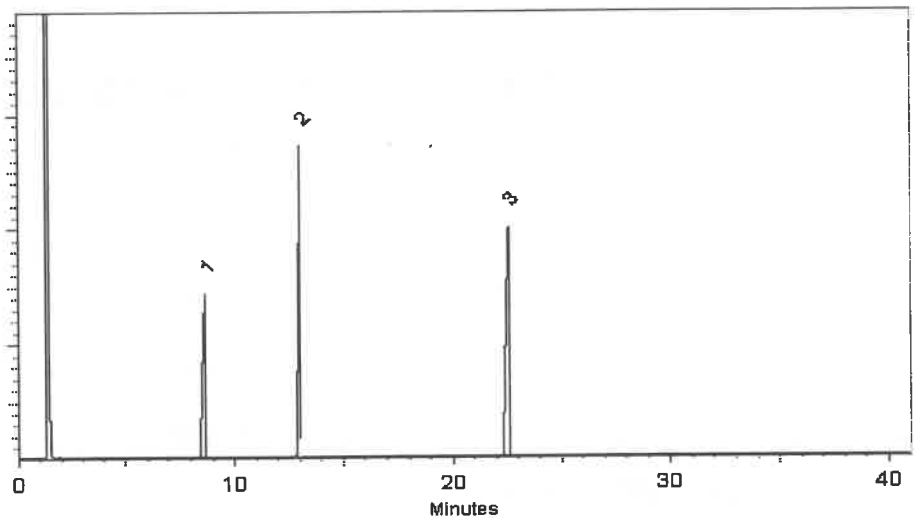
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

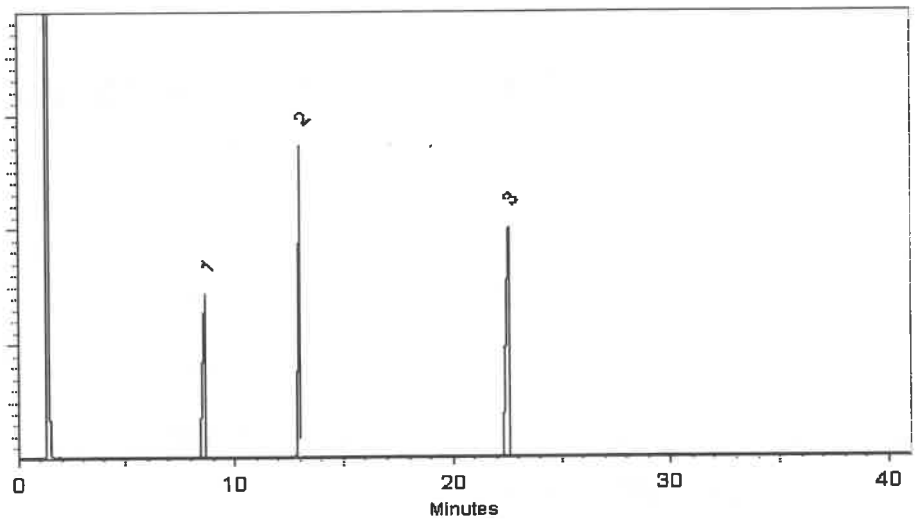
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC/ 05/24/24

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °C	Methylene Chloride	1/16/2028	Benzaldehyde Solution, 1000 mg/L, 1.3 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
benzaldehyde	100-52-7	98.3	442.421.1P	996.8 ± 11.49

S12275 ↓ S12279 } RC/ 05/24/24

*Not a certified value

Certified By: S. Hunter

Scott Hunter
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

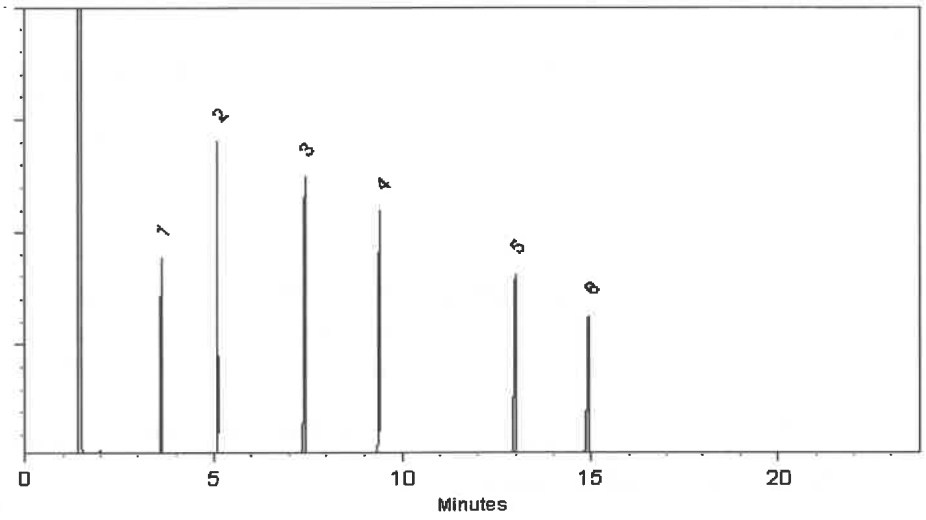
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I **Date Mixed:** 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~S12280~~ ↓ S12284 RCI 05/24/24

New numbers Generated.

S12790 ↓ S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

SHIPPING DOCUMENTS

Q1569

Weston COC ID
Weston_20250313_1208

Chain of Custody Record/Lab Work Request

Page 1 of 1

Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	**Project POC:**	Nathan Fretz
PO Number	0111169	**Phone:**	484-524-5665
W.O. #:		**POC e-mail:**	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	**Lab POC:**	Jordan Hedvat
TAT (days):	21	**Lab Phone:**	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Matrix Codes
SS - Soil
SE - Sediment
SO - Solid
SL - Sludge
GW - Groundwater
W - Water
SB - Soil Boring
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected	TCLP VOCs by EPA 8260D (1311)	TCLP SVOCs by EPA 8270E (1311)	TCLP Metals by EPA 6010D/7470A	TCLP Pesticides by EPA 8081B	TCLP Herbicides by EPA 8151A	Total Cyanide by EPA 9012B	Total Sulfide by EPA 9034	PCBs by EPA 8082A	pH by EPA 9045D	Ignitability by EPA 1030	Special Instructions/Comments
	Analyses Requested:																	
	Container Type:							Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	
	Container Size:							4 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	
	Preservative:							Ice to 0-6	Ice to 0-6 deg	Ice to 0-6 deg	Ice to 0-6 deg	Ice to 0-6 deg c	Ice to 0-	Ice to 0-6	Ice to 0-	Ice to 0-6	Ice to 0-6	
1	TAP-IDW-SOIL-031325-01	c	DS	7	no	3/13/2025	10:20	X	X	X	X	X	X	X	X	X	X	VOCs no headspace, prep immediately
2	TAP-IDW-SOIL-031325-02	c	DS	7	no	3/13/2025	10:50	X	X	X	X	X	X	X	X	X	X	VOCs no headspace, prep immediately
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Shipping Airbill Number: 7726 9601 3376

Cooler Number: 1 of 1

	Relinquished By	Date	Time	Received By	Date	Time
1.)	Lynn Hoyt	3/13/25	1315		3/14/25	1000
2.)						
3.)						

Additional Comments

QSM 6.0 Compliant

Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD

2-9-C

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

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141904.D
Acq On : 10 Mar 2025 14:27
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Mar 10 15:37:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	214737	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	826030	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	452864	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	738472	20.000	ng		0.00
76) Chrysene-d12	14.045	240	424370	20.000	ng		0.00
86) Perylene-d12	15.510	264	391768	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	1930406	149.991	ng		0.00
7) Phenol-d6	6.522	99	2446183	149.235	ng		0.02
23) Nitrobenzene-d5	7.457	82	2335417	158.463	ng		0.01
42) 2,4,6-Tribromophenol	10.716	330	986206	171.858	ng		0.01
45) 2-Fluorobiphenyl	9.245	172	4513418	151.763	ng		0.00
79) Terphenyl-d14	12.992	244	4700026	163.713	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.669	88	436007	80.831	ng		98
3) Pyridine	3.440	79	1059473	79.923	ng		99
4) n-Nitrosodimethylamine	3.416	42	521442	82.752	ng		99
6) Aniline	6.563	93	1160437	71.712	ng		99
8) 2-Chlorophenol	6.675	128	1078659	75.616	ng		98
9) Benzaldehyde	6.440	77	516360	56.359	ng		99
10) Phenol	6.534	94	1285145	74.308	ng		89
11) bis(2-Chloroethyl)ether	6.628	93	968280	74.725	ng		99
12) 1,3-Dichlorobenzene	6.828	146	1173924	76.153	ng		100
13) 1,4-Dichlorobenzene	6.904	146	1181975	75.784	ng		99
14) 1,2-Dichlorobenzene	7.063	146	1093316	74.440	ng		99
15) Benzyl Alcohol	7.034	79	1013314	76.376	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.163	45	1127534	72.198	ng		98
17) 2-Methylphenol	7.134	107	876665	77.326	ng		98
18) Hexachloroethane	7.398	117	448765	76.745	ng		96
19) n-Nitroso-di-n-propyla...	7.316	70	783318	74.351	ng		100
20) 3+4-Methylphenols	7.298	107	1050191	72.219	ng	#	84
22) Acetophenone	7.304	105	1496035	75.498	ng	#	95
24) Nitrobenzene	7.475	77	1162753	79.572	ng		100
25) Isophorone	7.722	82	2056405	79.032	ng		100
26) 2-Nitrophenol	7.787	139	599261	83.688	ng		99
27) 2,4-Dimethylphenol	7.822	122	767514	77.821	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	1248549	76.598	ng		100
29) 2,4-Dichlorophenol	8.028	162	971886	79.403	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	1062793	78.705	ng		99
31) Naphthalene	8.192	128	3152444	74.497	ng		99
32) Benzoic acid	7.975	122	795850	92.323	ng		98
33) 4-Chloroaniline	8.239	127	1088546	72.896	ng		100
34) Hexachlorobutadiene	8.304	225	713827	81.299	ng		99
35) Caprolactam	8.639	113	222427	59.762	ng		96
36) 4-Chloro-3-methylphenol	8.716	107	1056917	77.644	ng		99
37) 2-Methylnaphthalene	8.881	142	2129990	75.023	ng		100
38) 1-Methylnaphthalene	8.981	142	2050191	74.568	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	1127671	81.667	ng		98
41) Hexachlorocyclopentadiene	9.028	237	463300	85.031	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	741710	82.399	ng		100

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141904.D
Acq On : 10 Mar 2025 14:27
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Mar 10 15:37:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration

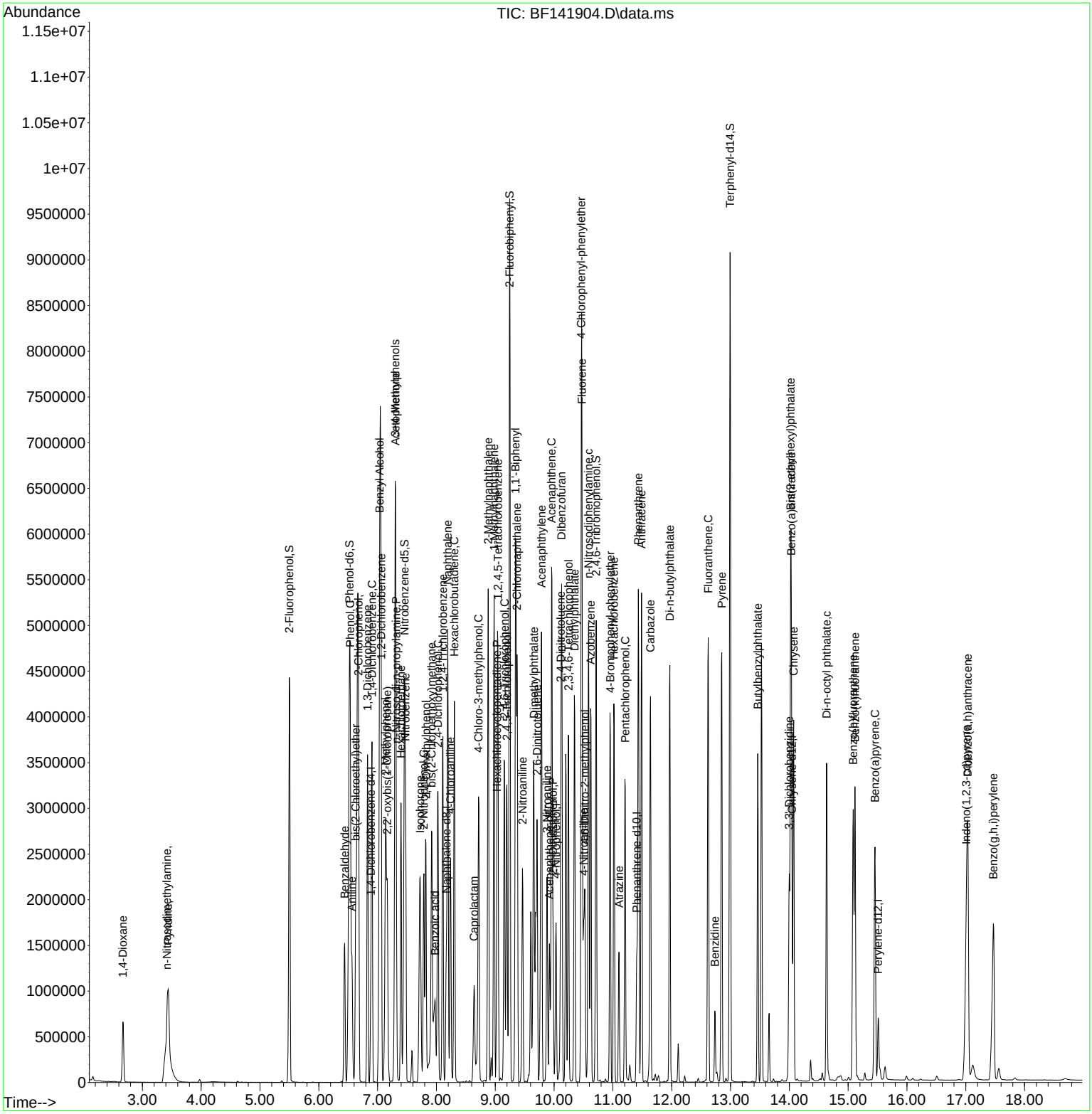
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	736926	80.579	ng		100
46) 1,1'-Biphenyl	9.345	154	2626697	76.503	ng		99
47) 2-Chloronaphthalene	9.369	162	1992242	77.859	ng		99
48) 2-Nitroaniline	9.463	65	597778	81.326	ng		98
49) Acenaphthylene	9.786	152	2878496	75.877	ng		99
50) Dimethylphthalate	9.657	163	2428843	77.192	ng		100
51) 2,6-Dinitrotoluene	9.710	165	529139	80.867	ng		99
52) Acenaphthene	9.957	154	2085941	77.872	ng		99
53) 3-Nitroaniline	9.881	138	526980	78.435	ng		100
54) 2,4-Dinitrophenol	9.981	184	305399	81.479	ng	#	55
55) Dibenzofuran	10.128	168	2844432	74.474	ng		99
56) 4-Nitrophenol	10.033	139	416153	82.456	ng		97
57) 2,4-Dinitrotoluene	10.116	165	681278	79.099	ng		95
58) Fluorene	10.475	166	2210653	74.974	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	668027	80.507	ng		99
60) Diethylphthalate	10.345	149	2358921	74.681	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	1209021	78.724	ng		97
62) 4-Nitroaniline	10.504	138	502894	77.243	ng		98
63) Azobenzene	10.622	77	2168742	73.911	ng		99
65) 4,6-Dinitro-2-methylph...	10.522	198	404505	92.396	ng		98
66) n-Nitrosodiphenylamine	10.586	169	1882098	78.895	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	774645	84.232	ng		95
68) Hexachlorobenzene	11.016	284	862357	84.832	ng		97
69) Atrazine	11.104	200	258544	44.445	ng		99
70) Pentachlorophenol	11.210	266	563030	89.813	ng		100
71) Phenanthrene	11.433	178	3020950	75.649	ng		99
72) Anthracene	11.486	178	3031014	75.653	ng		99
73) Carbazole	11.639	167	2552563	74.002	ng		98
74) Di-n-butylphthalate	11.969	149	3342776	73.399	ng		99
75) Fluoranthene	12.622	202	3005566	71.694	ng		99
77) Benzidine	12.733	184	427770	71.330	ng		99
78) Pyrene	12.851	202	2930115	80.513	ng		99
80) Butylbenzylphthalate	13.463	149	1149989	80.189	ng		99
81) Benzo(a)anthracene	14.033	228	2196935	78.692	ng		100
82) 3,3'-Dichlorobenzidine	13.998	252	652678	80.884	ng		99
83) Chrysene	14.074	228	2018832	80.498	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	1573231	79.962	ng		98
85) Di-n-octyl phthalate	14.633	149	2310836	84.386	ng		100
87) Indeno(1,2,3-cd)pyrene	17.009	276	2238588	88.111	ng		99
88) Benzo(b)fluoranthene	15.086	252	2246428	84.536	ng		99
89) Benzo(k)fluoranthene	15.116	252	1631675	70.292	ng		99
90) Benzo(a)pyrene	15.457	252	1725632	82.339	ng		100
91) Dibenzo(a,h)anthracene	17.033	278	1846778	88.098	ng		99
92) Benzo(g,h,i)perylene	17.468	276	1828662	87.950	ng		99

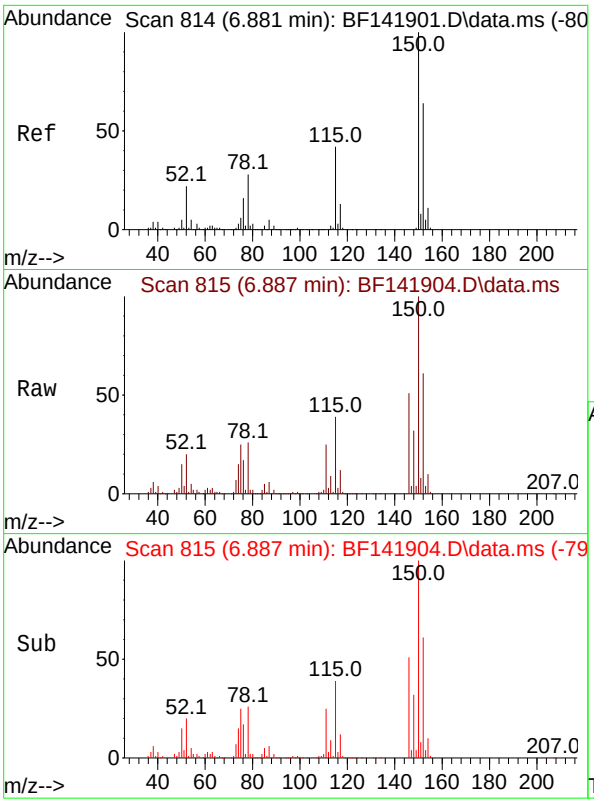
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031025\
Data File : BF141904.D
Acq On : 10 Mar 2025 14:27
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Mar 10 15:37:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:01:52 2025
Response via : Initial Calibration



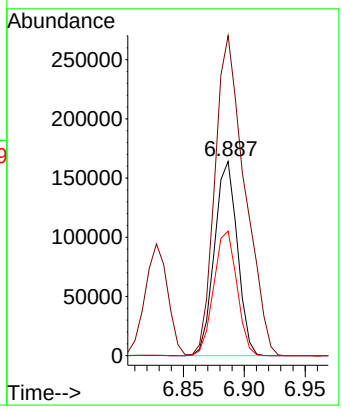


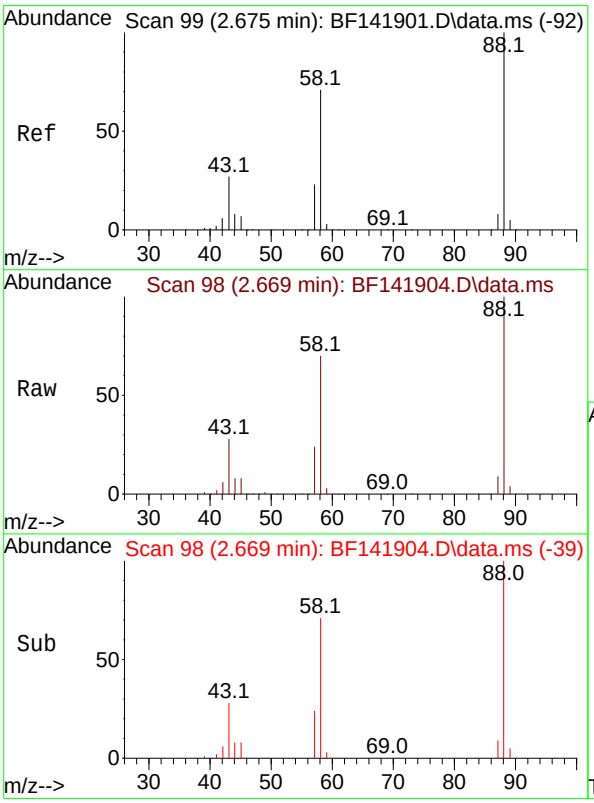
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 214737

Ion	Ratio	Lower	Upper
152	100		
150	164.7	127.4	191.2
115	64.2	51.9	77.9

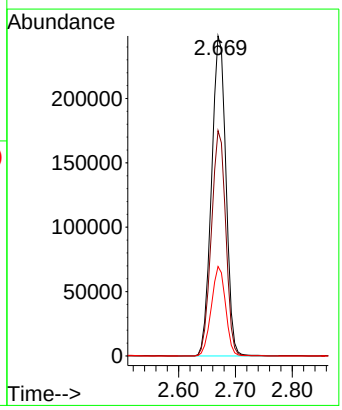


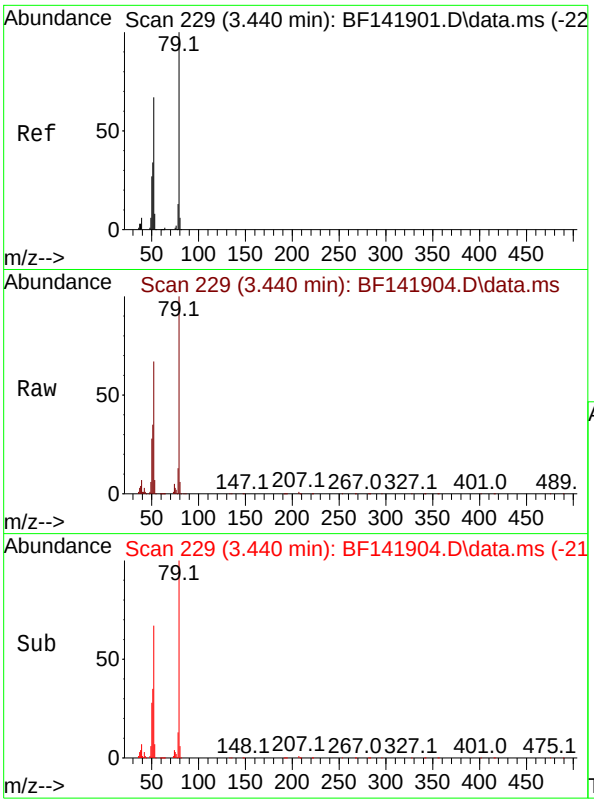


#2
1,4-Dioxane
Concen: 80.831 ng
RT: 2.669 min Scan# 98
Delta R.T. -0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 88 Resp: 436007

Ion	Ratio	Lower	Upper
88	100		
58	70.3	57.4	86.2
43	27.6	21.5	32.3



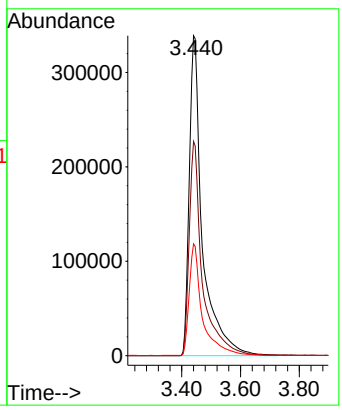


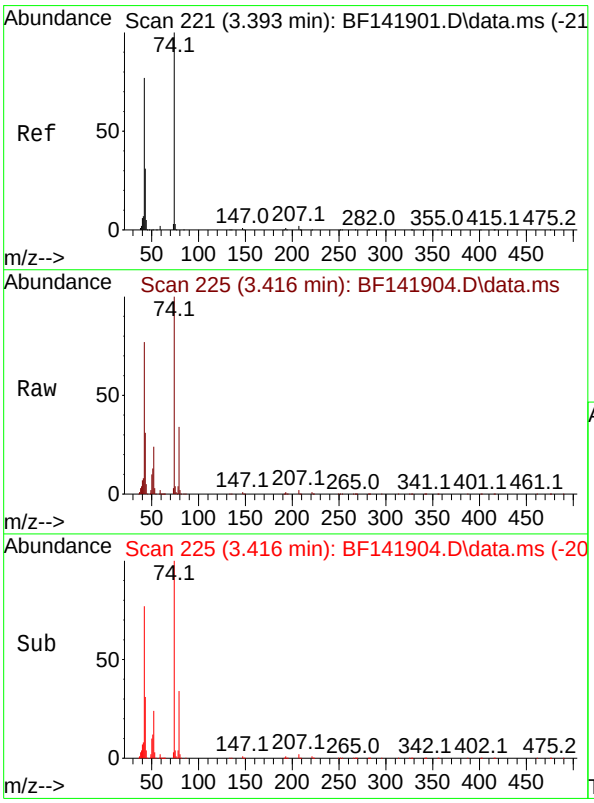
#3
Pyridine
Concen: 79.923 ng
RT: 3.440 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 1059473

Ion	Ratio	Lower	Upper
79	100		
52	66.9	53.3	79.9
51	35.0	27.6	41.4

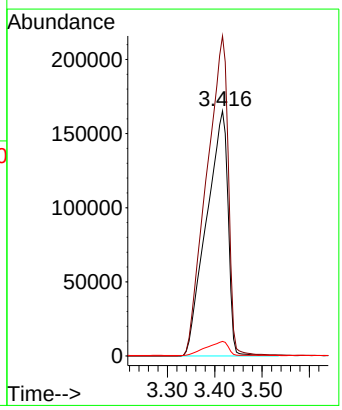


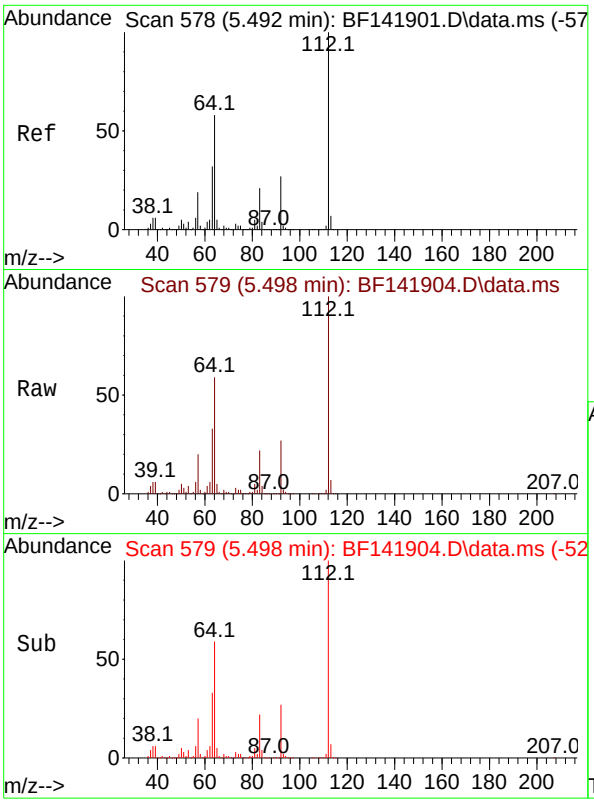


#4
n-Nitrosodimethylamine
Concen: 82.752 ng
RT: 3.416 min Scan# 225
Delta R.T. 0.024 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 42 Resp: 521442

Ion	Ratio	Lower	Upper
42	100		
74	130.6	103.4	155.0
44	6.0	5.0	7.4



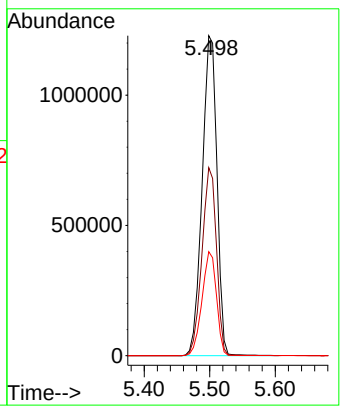


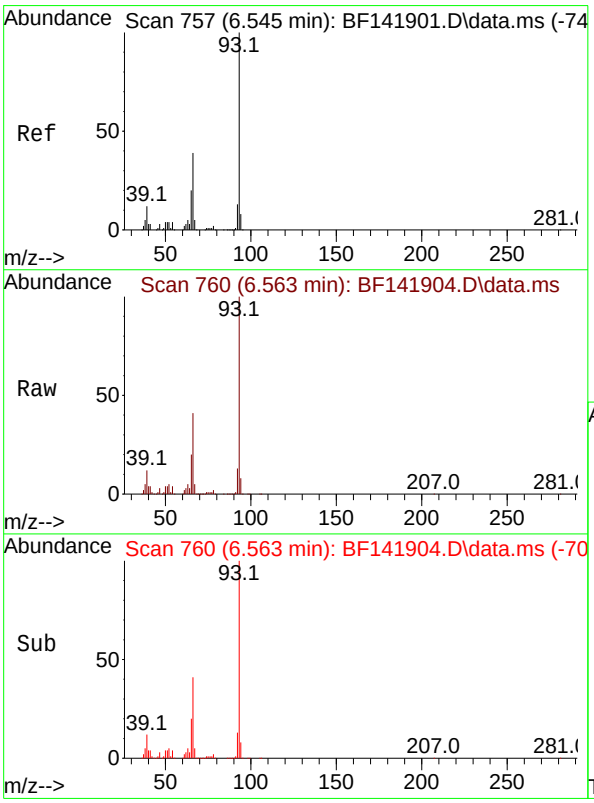
#5
2-Fluorophenol
Concen: 149.991 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 1930406

Ion	Ratio	Lower	Upper
112	100		
64	58.7	46.5	69.7
63	32.5	25.4	38.2

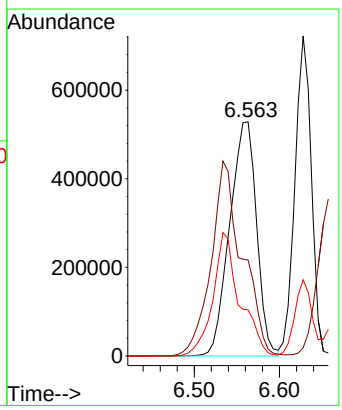


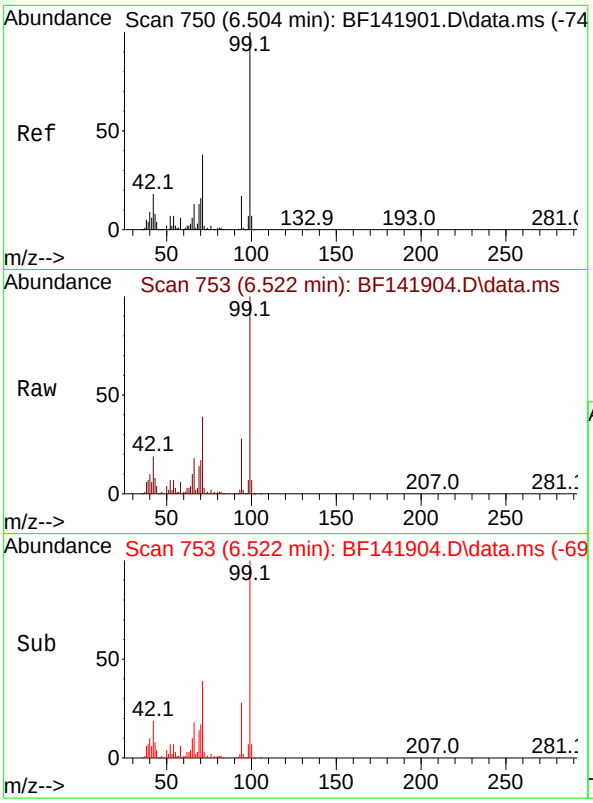


#6
Aniline
Concen: 71.712 ng
RT: 6.563 min Scan# 760
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 93 Resp: 1160437

Ion	Ratio	Lower	Upper
93	100		
66	40.9	31.9	47.9
65	19.7	15.8	23.6



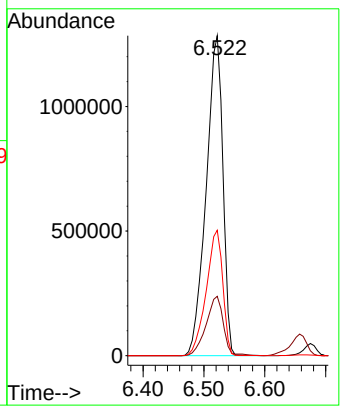


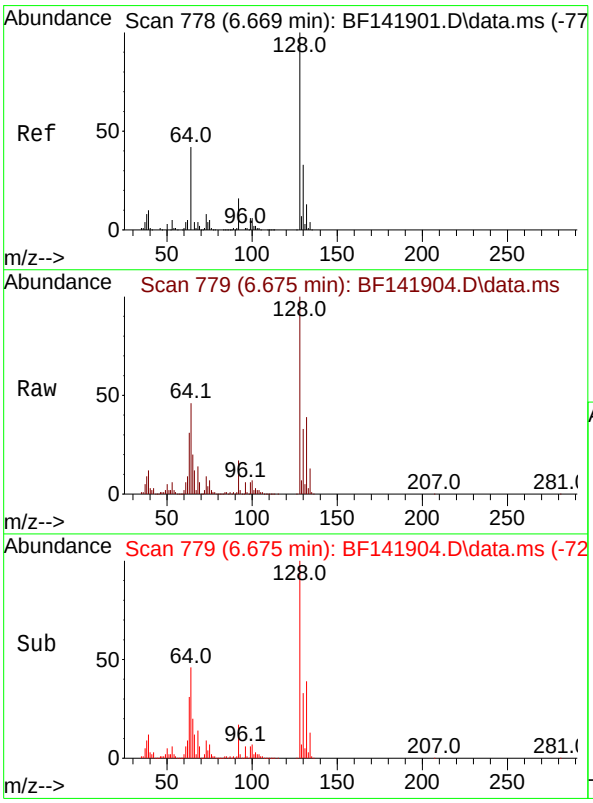
#7
Phenol-d6
Concen: 149.235 ng
RT: 6.522 min Scan# 7
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 2446183

Ion	Ratio	Lower	Upper
99	100		
42	18.5	14.6	21.8
71	39.2	30.8	46.2

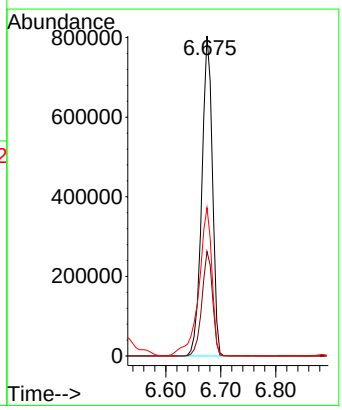


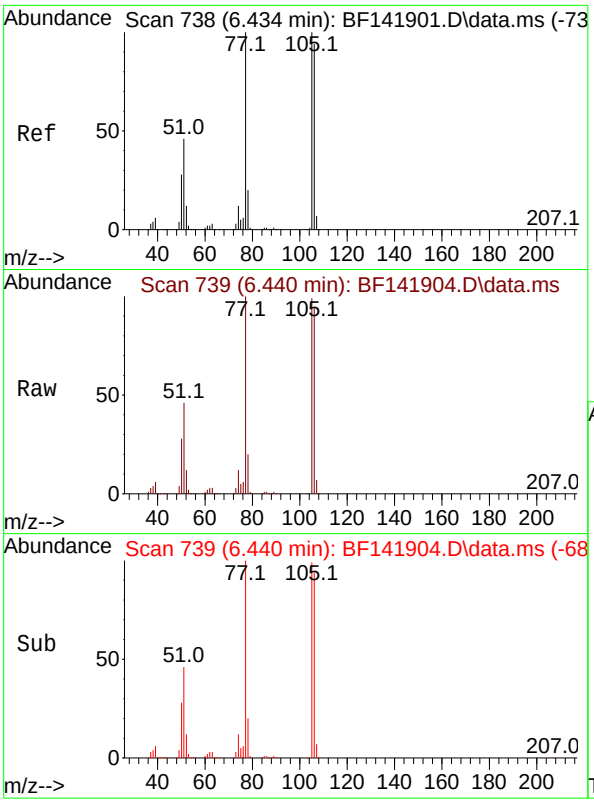


#8
2-Chlorophenol
Concen: 75.616 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:128 Resp: 1078659

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.8	52.8
64	46.4	24.4	64.4



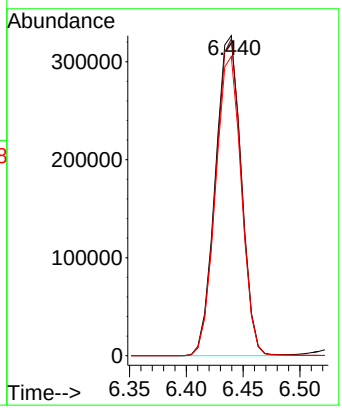


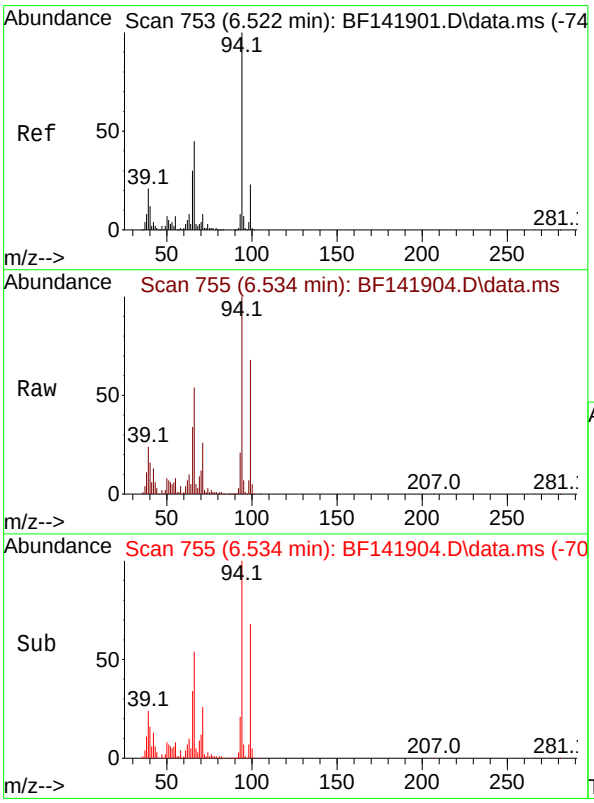
#9
Benzaldehyde
Concen: 56.359 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 516360

Ion	Ratio	Lower	Upper
77	100		
105	99.0	80.0	120.0
106	93.5	74.5	114.5

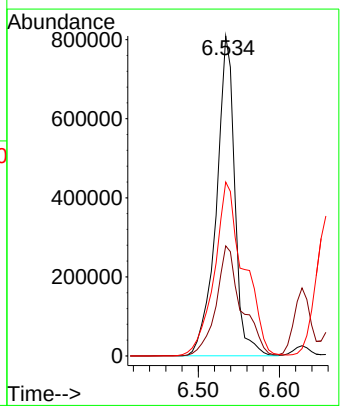


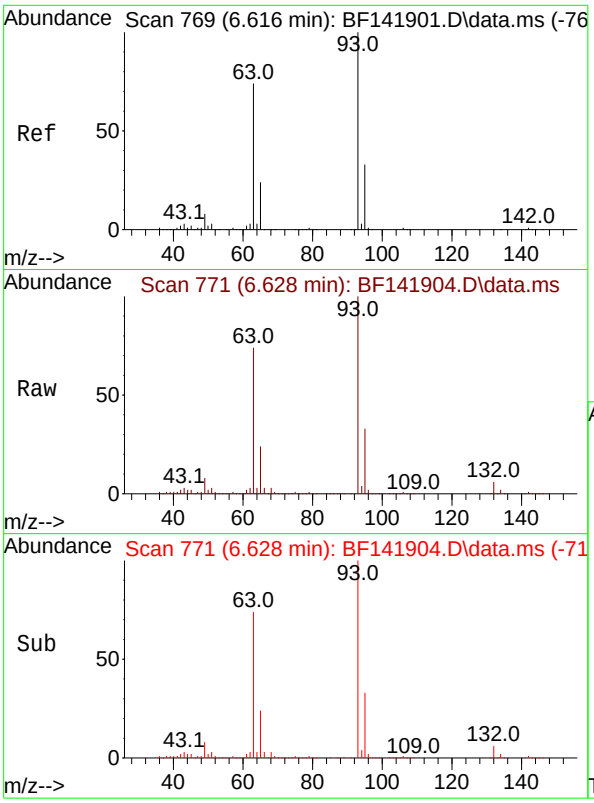


#10
Phenol
Concen: 74.308 ng
RT: 6.534 min Scan# 755
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 94 Resp: 1285145

Ion	Ratio	Lower	Upper
94	100		
65	34.4	10.5	50.5
66	54.3	25.8	65.8



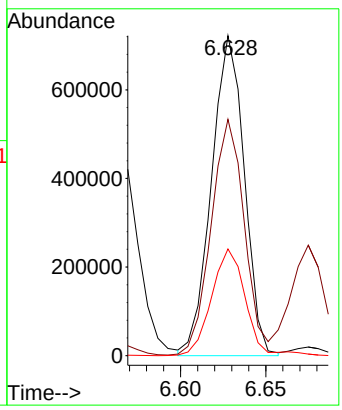


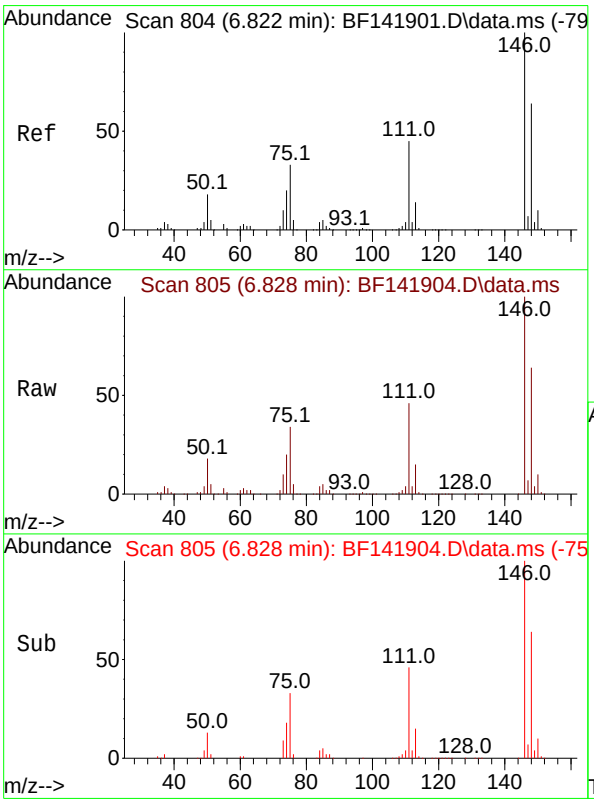
#11
bis(2-Chloroethyl)ether
Concen: 74.725 ng
RT: 6.628 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 968280

Ion	Ratio	Lower	Upper
93	100		
63	73.9	53.0	93.0
95	33.4	12.9	52.9

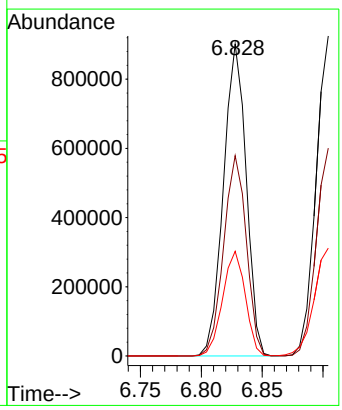


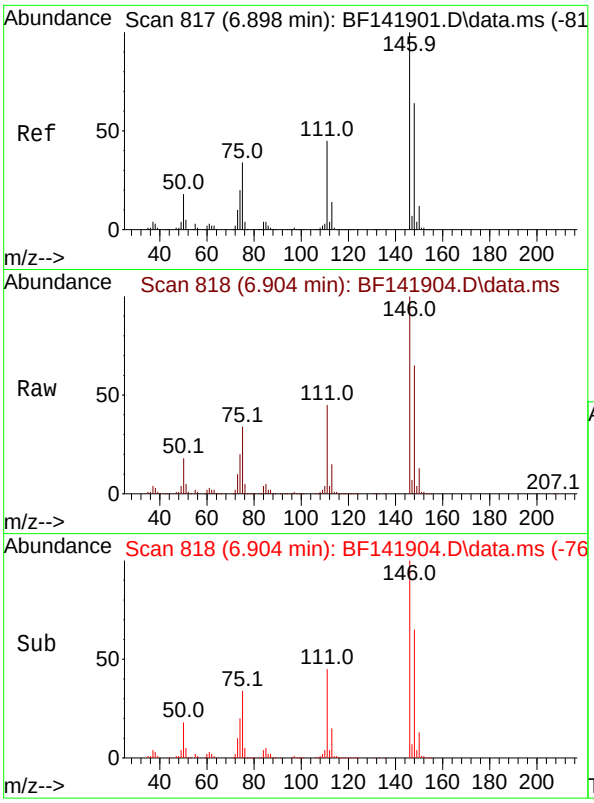


#12
1,3-Dichlorobenzene
Concen: 76.153 ng
RT: 6.828 min Scan# 805
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:146 Resp: 1173924

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.3	76.9
75	33.6	26.6	40.0



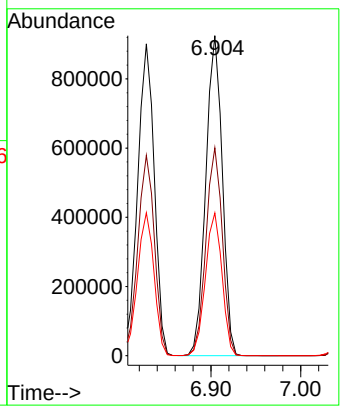


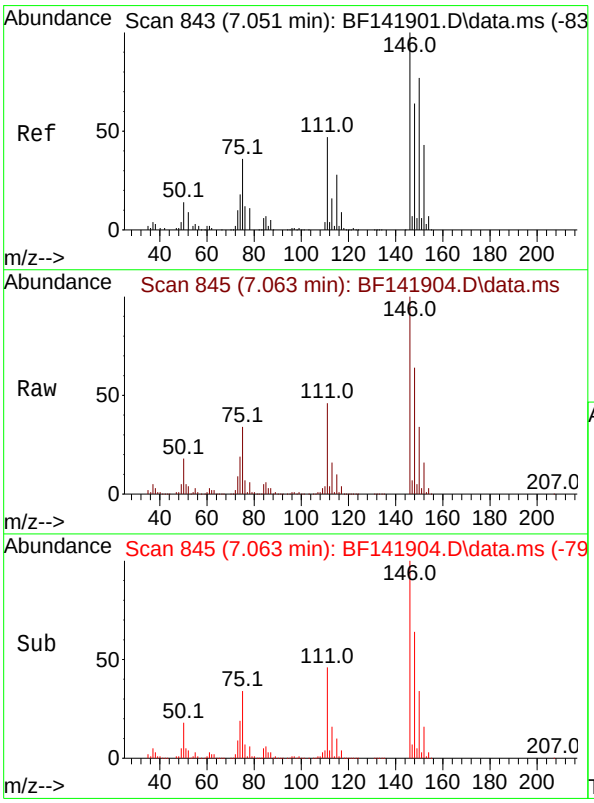
#13
1,4-Dichlorobenzene
Concen: 75.784 ng
RT: 6.904 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 1181975

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.0	76.6
111	44.6	35.7	53.5

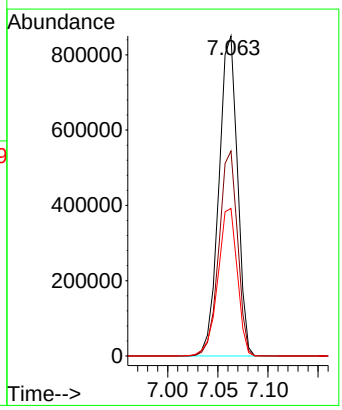


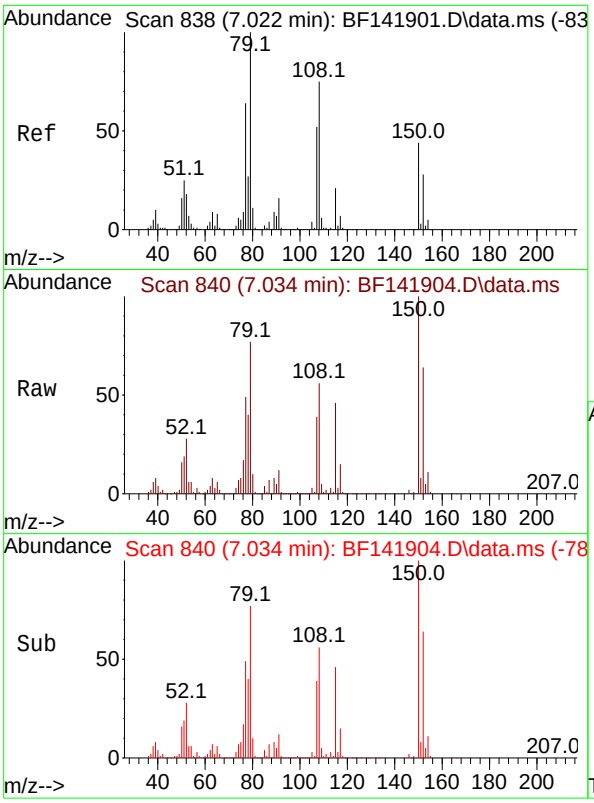


#14
1,2-Dichlorobenzene
Concen: 74.440 ng
RT: 7.063 min Scan# 845
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:146 Resp: 1093316

Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.8	76.2
111	46.1	38.0	57.0



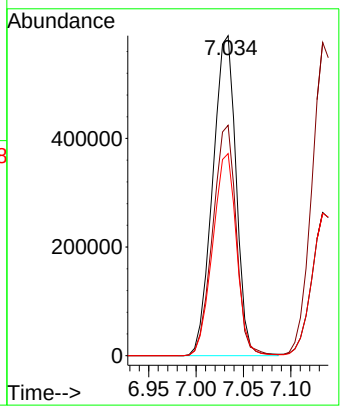


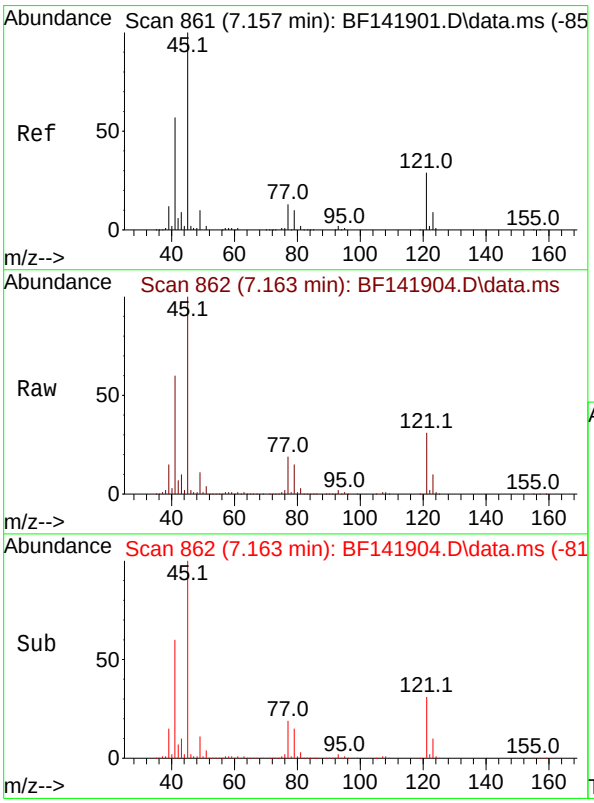
#15
Benzyl Alcohol
Concen: 76.376 ng
RT: 7.034 min Scan# 84
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 1013314

Ion	Ratio	Lower	Upper
79	100		
108	72.0	59.7	89.5
77	63.1	51.0	76.6

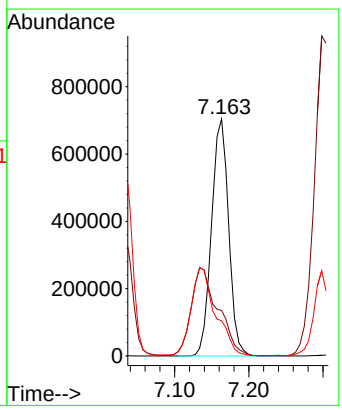


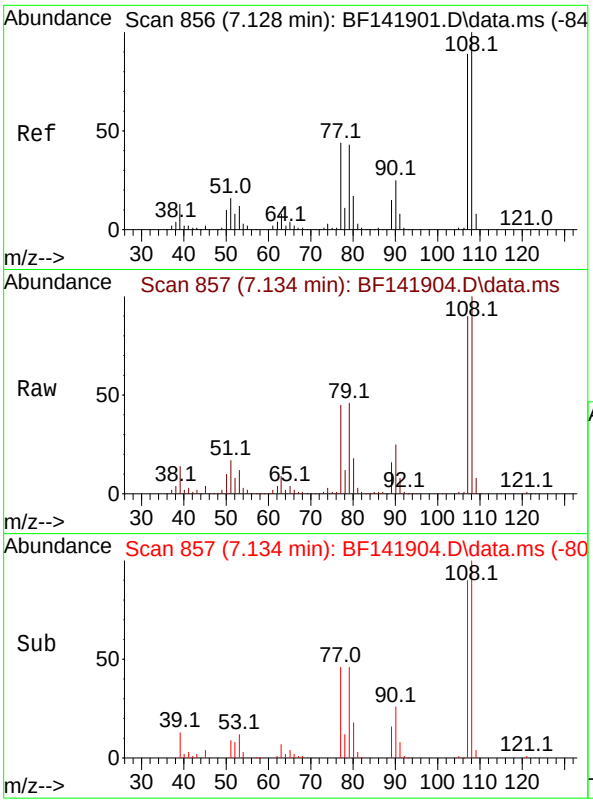


#16
2,2'-oxybis(1-Chloropropane)
Concen: 72.198 ng
RT: 7.163 min Scan# 862
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 45 Resp: 1127534

Ion	Ratio	Lower	Upper
45	100		
77	19.3	0.0	37.8
79	14.8	0.0	34.2



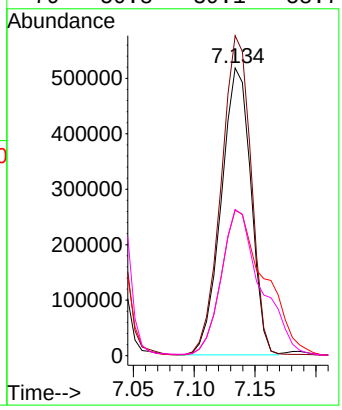


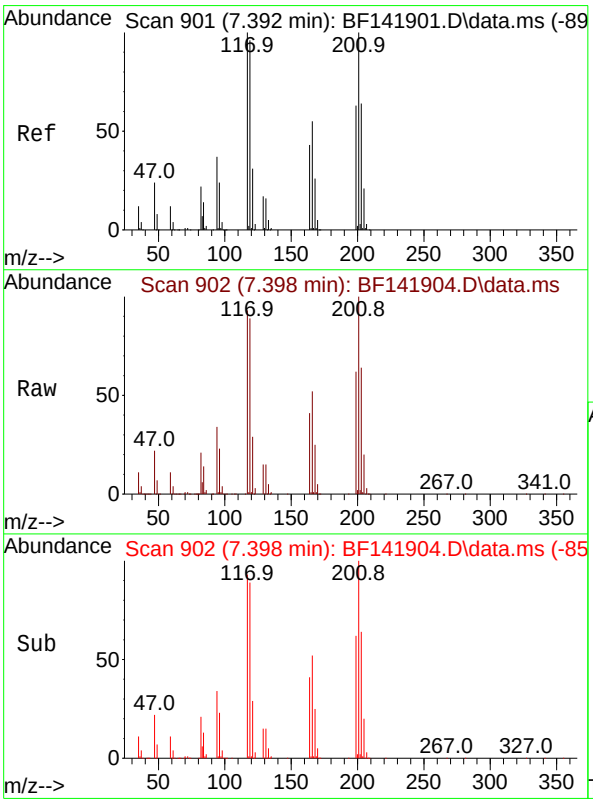
#17
2-Methylphenol
Concen: 77.326 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 876665

Ion	Ratio	Lower	Upper
107	100		
108	111.3	90.2	135.2
77	50.5	39.6	59.4
79	50.8	39.1	58.7

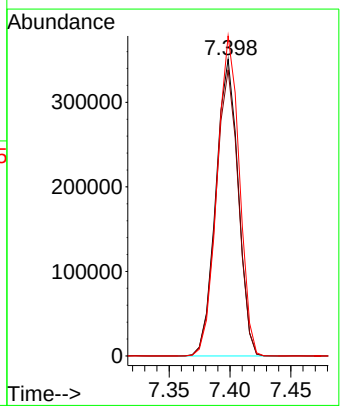


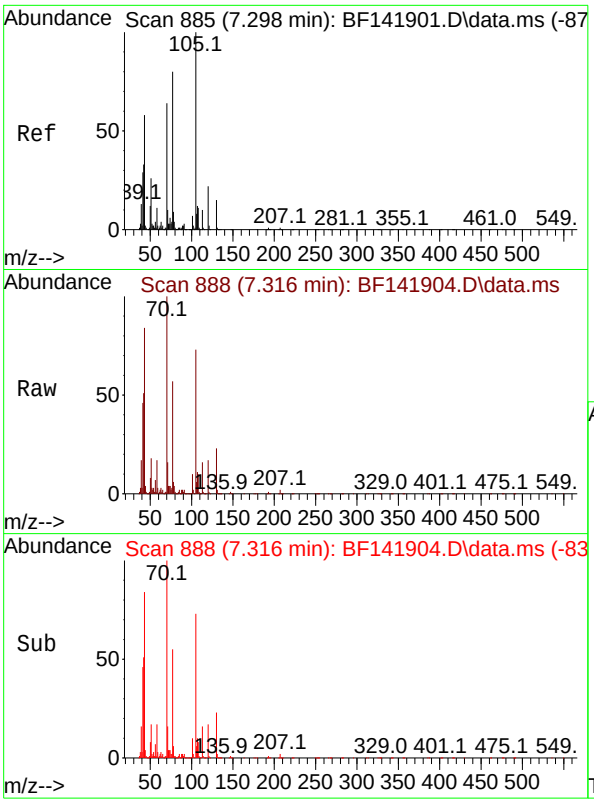


#18
Hexachloroethane
Concen: 76.745 ng
RT: 7.398 min Scan# 902
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:117 Resp: 448765

Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.9	115.3
201	107.9	79.9	119.9



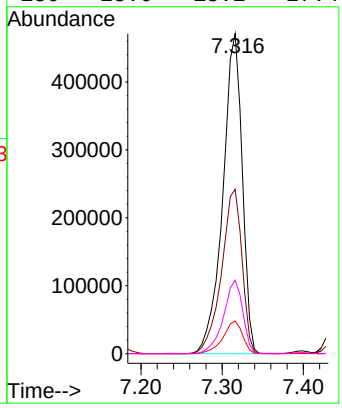


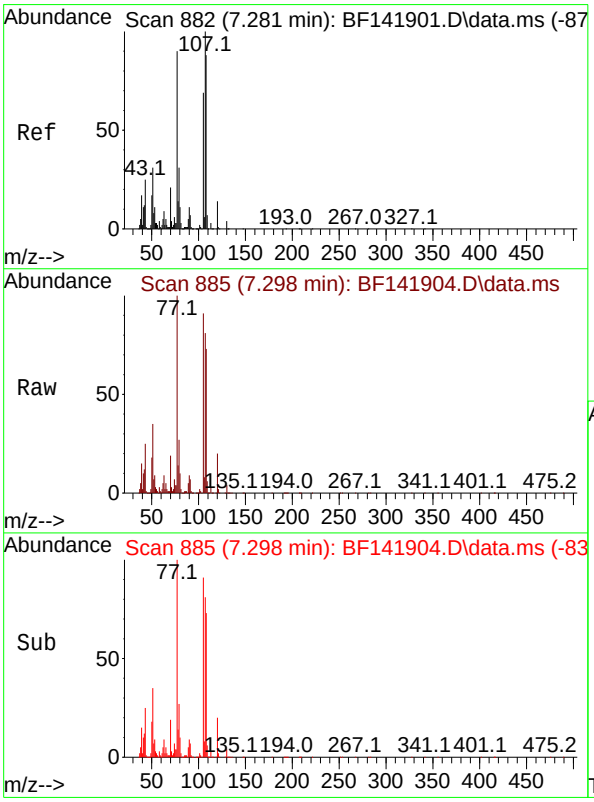
#19
n-Nitroso-di-n-propylamine
Concen: 74.351 ng
RT: 7.316 min Scan# 8
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 70 Resp: 783318

Ion	Ratio	Lower	Upper
70	100		
42	51.4	41.4	62.0
101	10.2	8.2	12.2
130	23.0	18.2	27.4

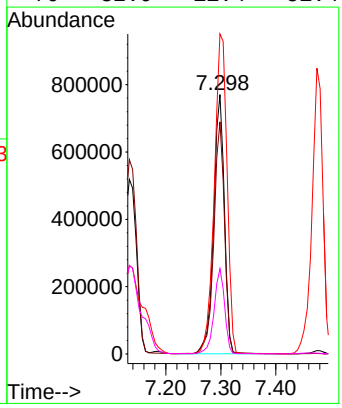


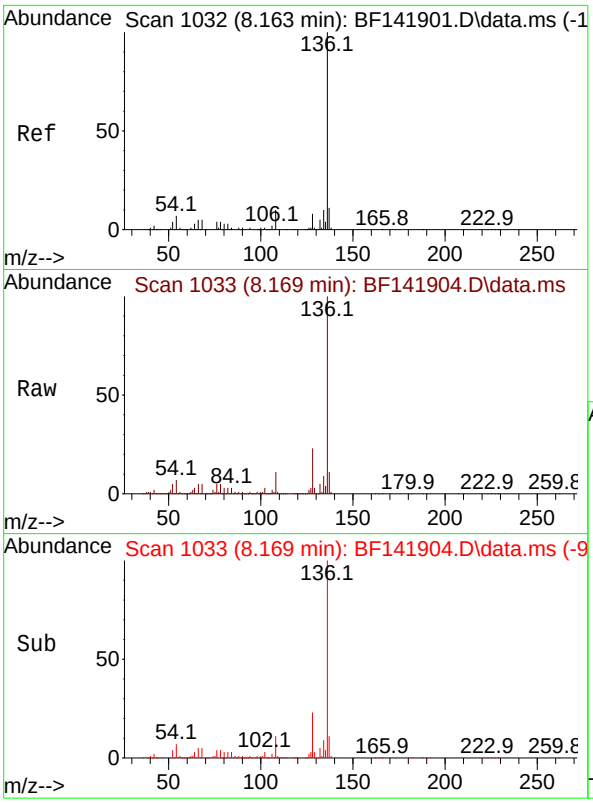


#20
3+4-Methylphenols
Concen: 72.219 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:107 Resp: 1050191

Ion	Ratio	Lower	Upper
107	100		
108	89.5	68.4	108.4
77	123.4	69.7	109.7#
79	32.9	11.4	51.4



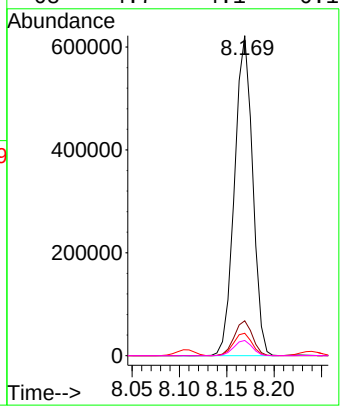


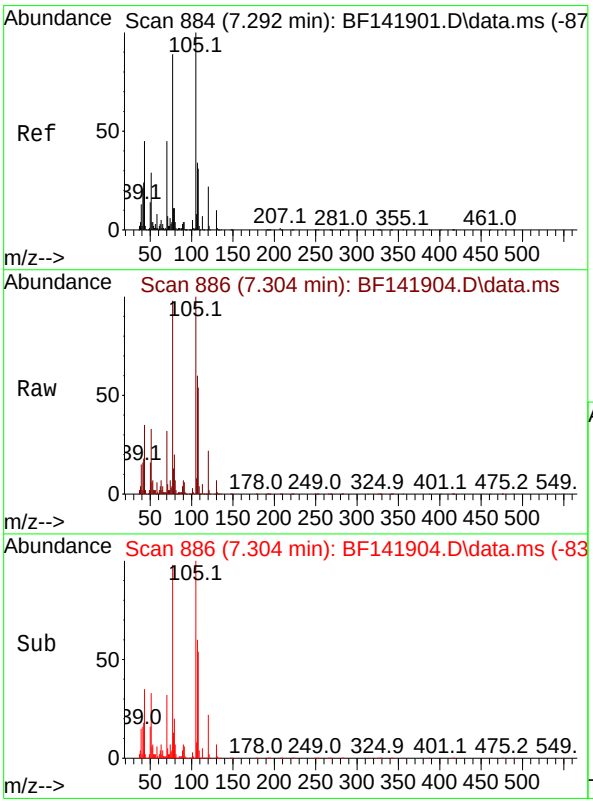
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:136 Resp: 826030

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.0	5.8	8.8
68	4.7	4.1	6.1

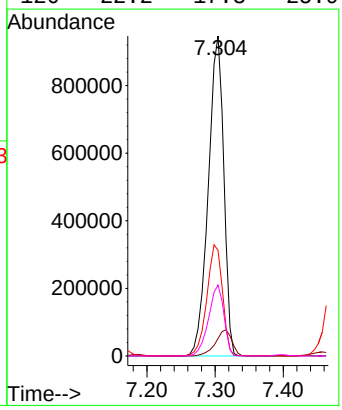


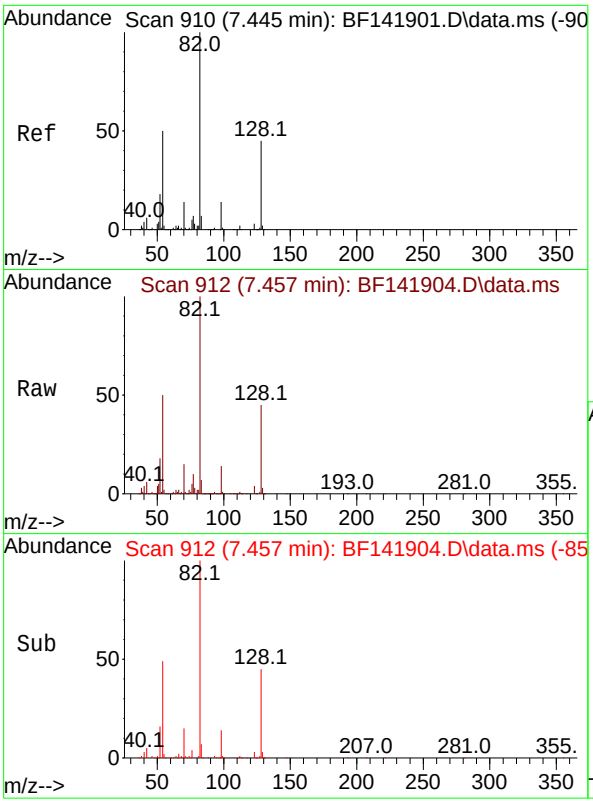


#22
Acetophenone
Concen: 75.498 ng
RT: 7.304 min Scan# 886
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:105 Resp: 1496035

Ion	Ratio	Lower	Upper
105	100		
71	5.4	5.8	8.8#
51	33.0	23.4	35.0
120	22.2	17.3	25.9



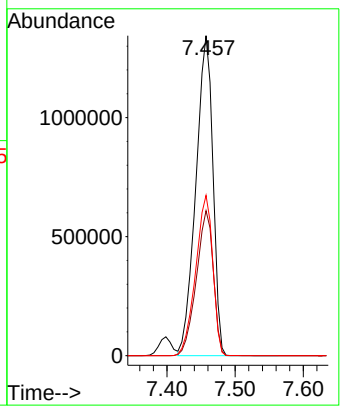


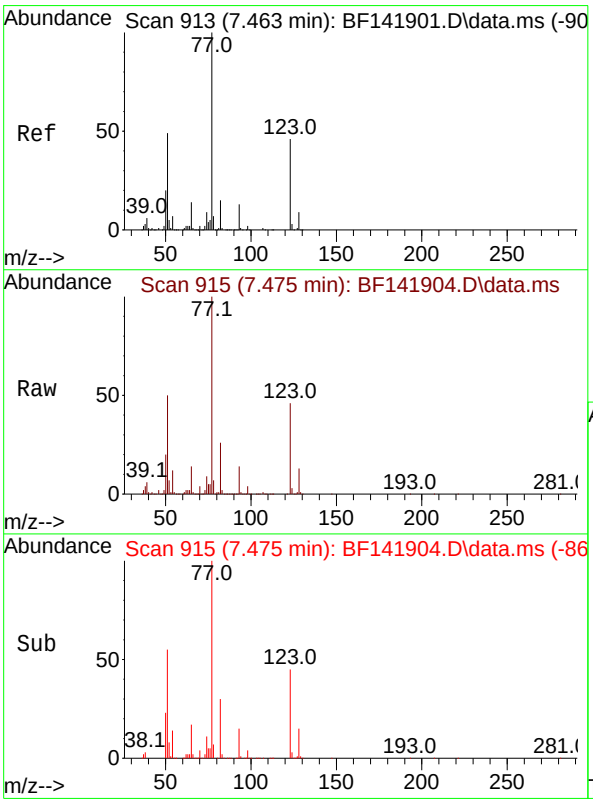
#23
Nitrobenzene-d5
Concen: 158.463 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 2335417

Ion	Ratio	Lower	Upper
82	100		
128	45.3	36.0	54.0
54	50.1	39.6	59.4

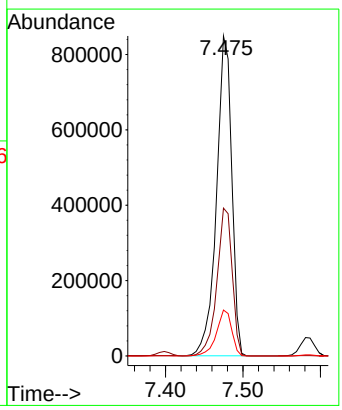


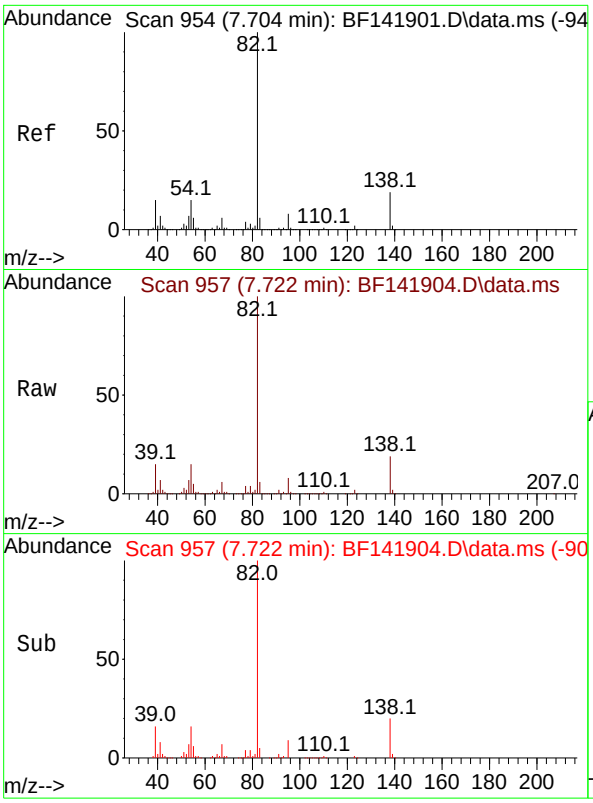


#24
Nitrobenzene
Concen: 79.572 ng
RT: 7.475 min Scan# 915
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 77 Resp: 1162753

Ion	Ratio	Lower	Upper
77	100		
123	46.2	37.0	55.4
65	14.4	11.3	16.9



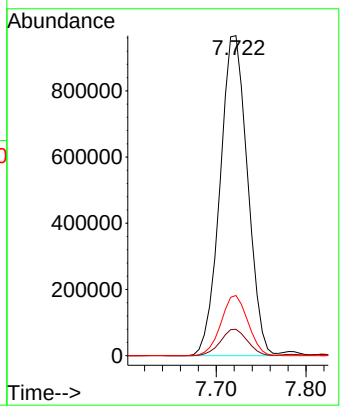


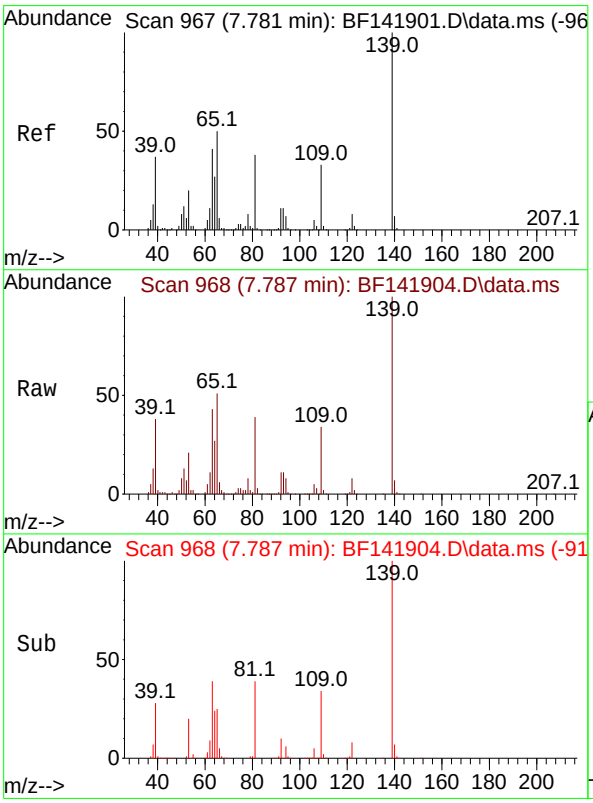
#25
Isophorone
Concen: 79.032 ng
RT: 7.722 min Scan# 9
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 2056405

Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.4	9.6
138	18.8	14.9	22.3

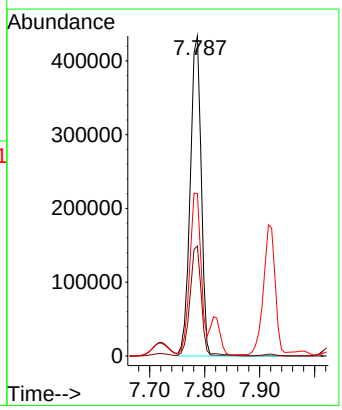


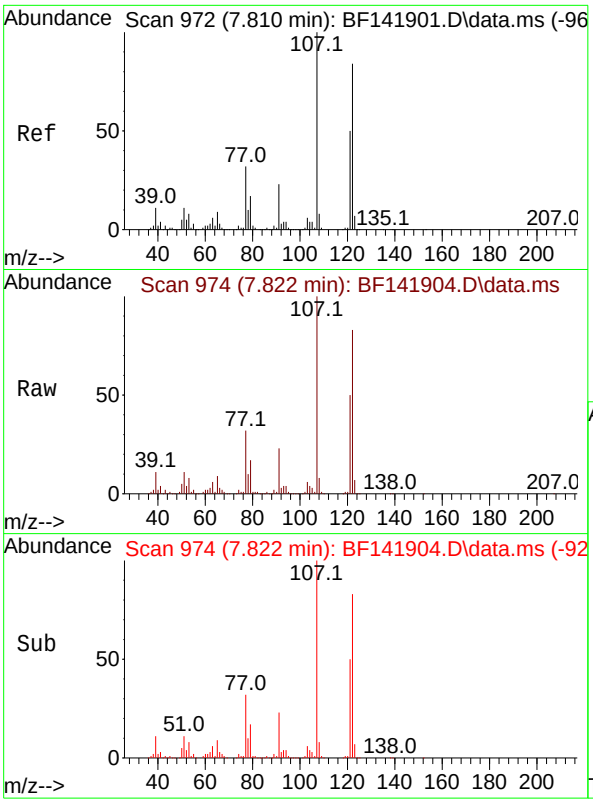


#26
2-Nitrophenol
Concen: 83.688 ng
RT: 7.787 min Scan# 968
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:139 Resp: 599261

Ion	Ratio	Lower	Upper
139	100		
109	34.4	26.5	39.7
65	50.8	40.3	60.5



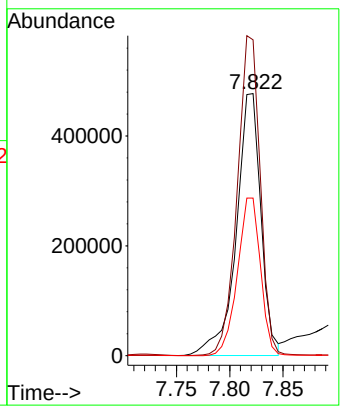


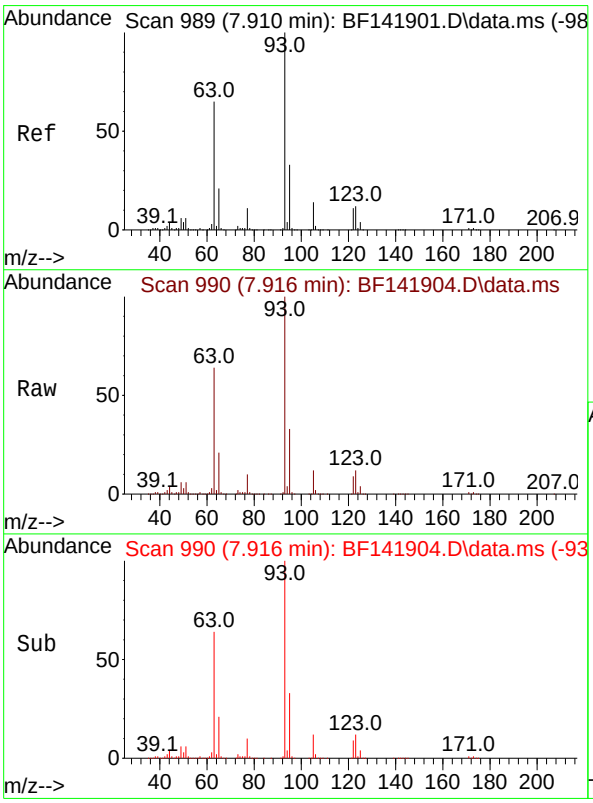
#27
2,4-Dimethylphenol
Concen: 77.821 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 767514

Ion	Ratio	Lower	Upper
122	100		
107	120.5	94.8	142.2
121	60.1	47.8	71.6

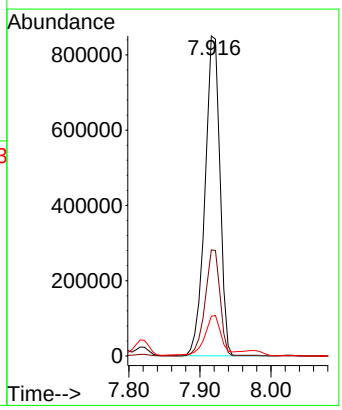


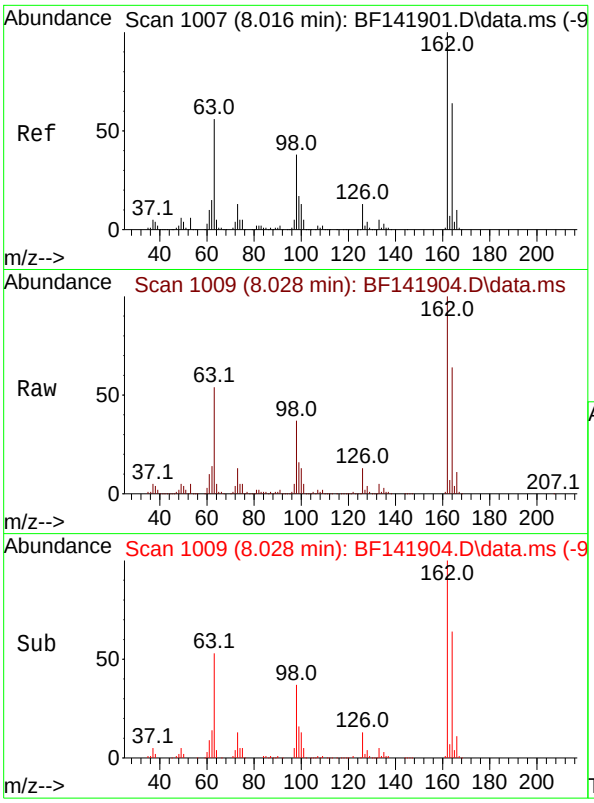


#28
bis(2-Chloroethoxy)methane
Concen: 76.598 ng
RT: 7.916 min Scan# 990
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 93 Resp: 1248549

Ion	Ratio	Lower	Upper
93	100		
95	33.2	26.6	40.0
123	12.4	10.2	15.4



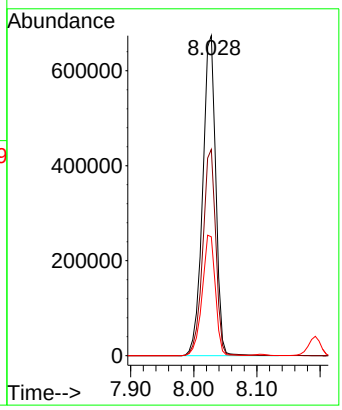


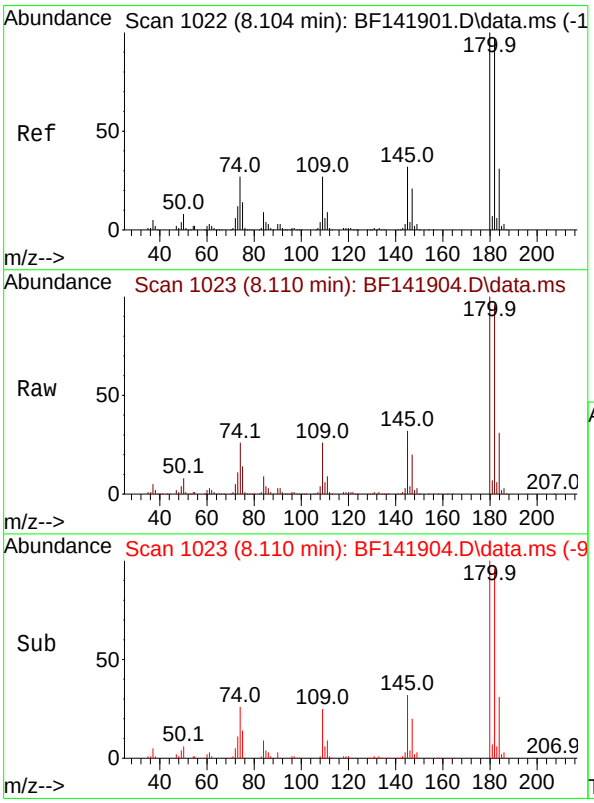
#29
2,4-Dichlorophenol
Concen: 79.403 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 971886

Ion	Ratio	Lower	Upper
162	100		
164	64.4	43.8	83.8
98	37.1	18.1	58.1

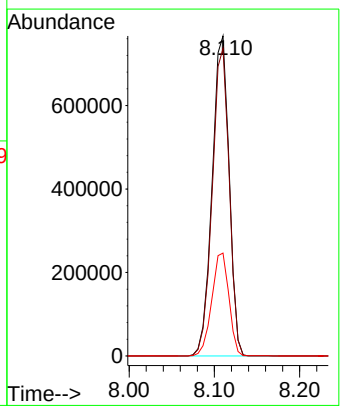


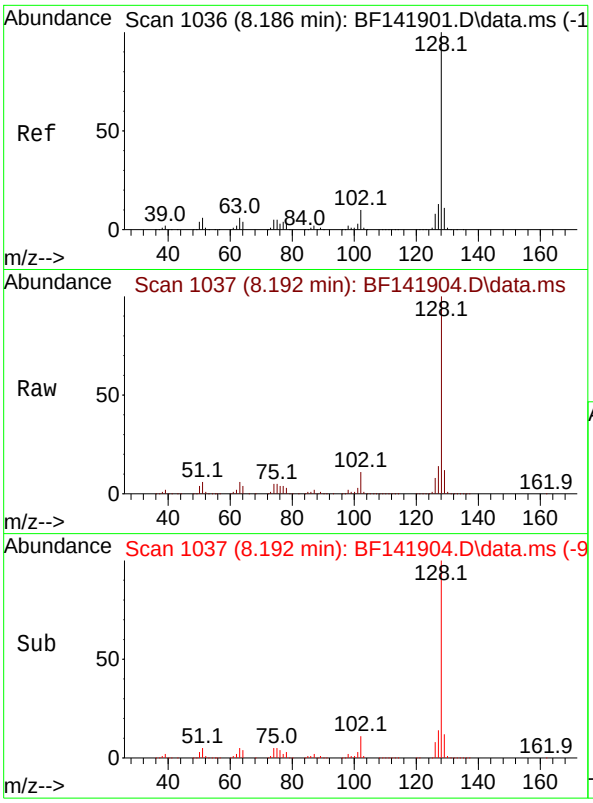


#30
1,2,4-Trichlorobenzene
Concen: 78.705 ng
RT: 8.110 min Scan# 1023
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:180 Resp: 1062793

Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.5	116.3
145	32.2	25.8	38.6



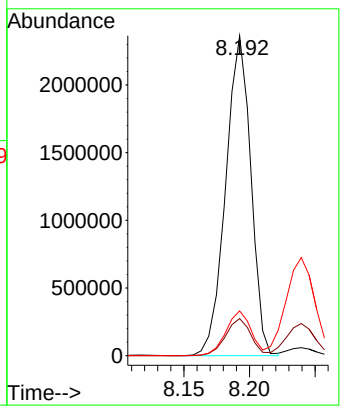


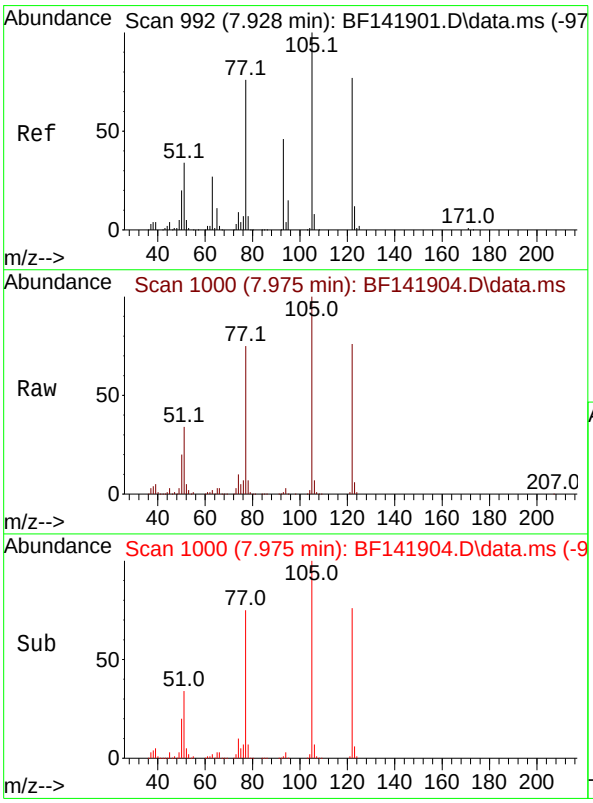
#31
Naphthalene
Concen: 74.497 ng
RT: 8.192 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:128 Resp: 3152444

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.0	13.6
127	14.0	10.8	16.2

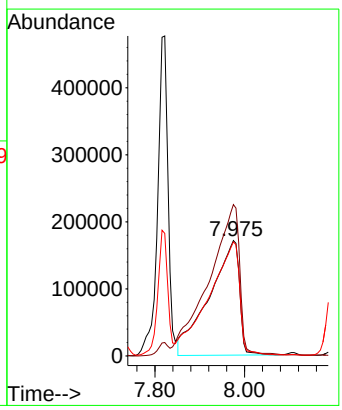


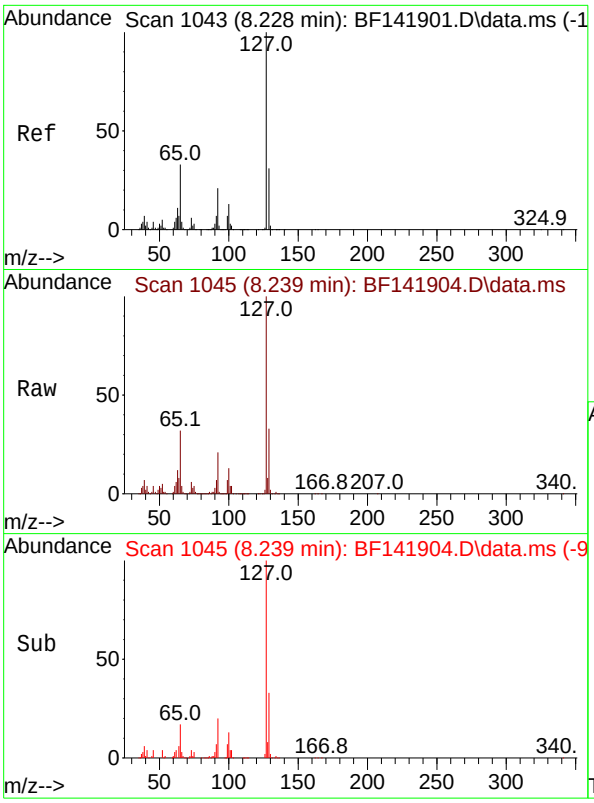


#32
Benzoic acid
Concen: 92.323 ng
RT: 7.975 min Scan# 1000
Delta R.T. 0.047 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:122 Resp: 795850

Ion	Ratio	Lower	Upper
122	100		
105	131.3	107.9	147.9
77	98.9	79.0	119.0



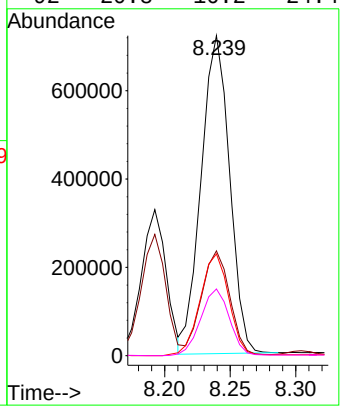


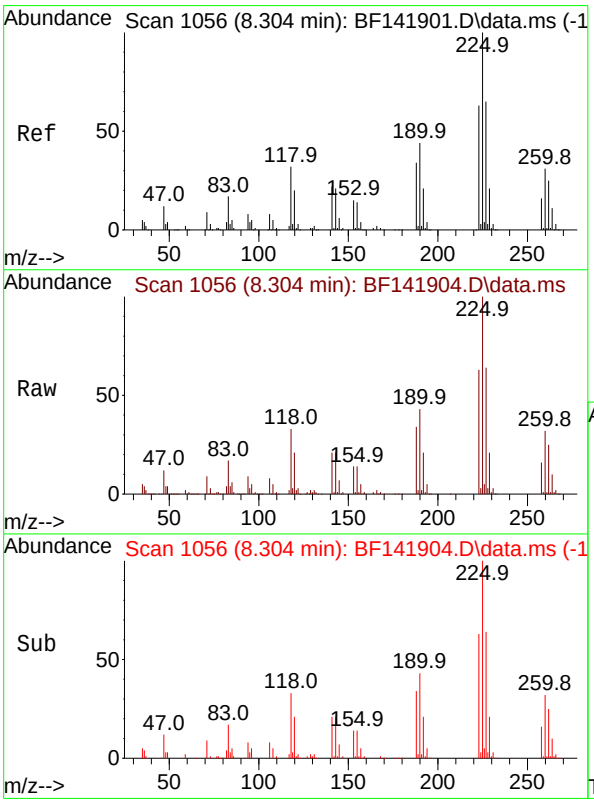
#33
4-Chloroaniline
Concen: 72.896 ng
RT: 8.239 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:127 Resp: 1088546

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.2	39.4
65	31.8	25.4	38.2
92	20.8	16.2	24.4

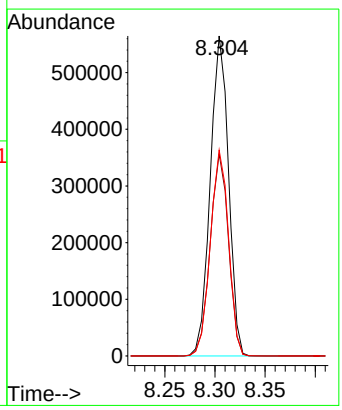


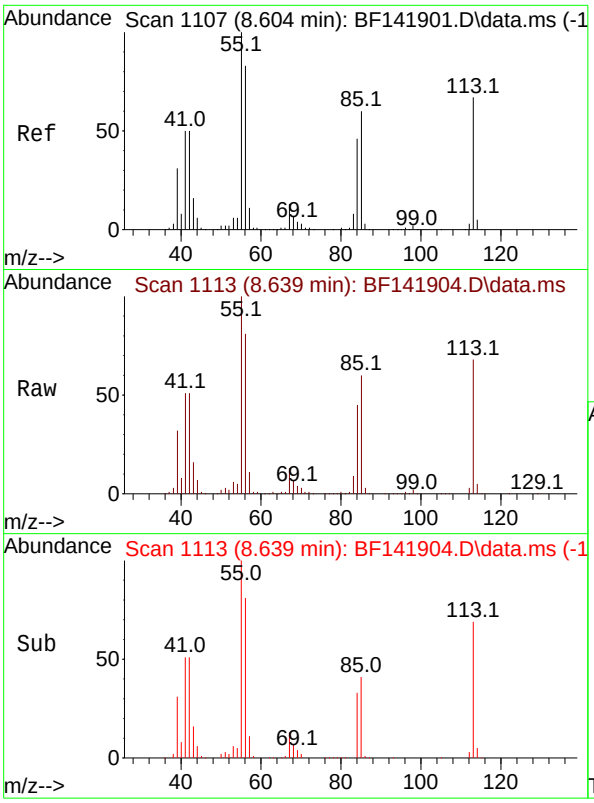


#34
Hexachlorobutadiene
Concen: 81.299 ng
RT: 8.304 min Scan# 1056
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:225 Resp: 713827

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.6	75.8
227	64.3	52.2	78.2



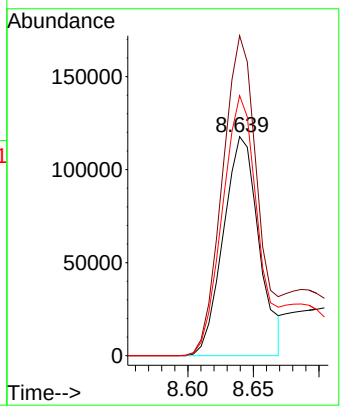


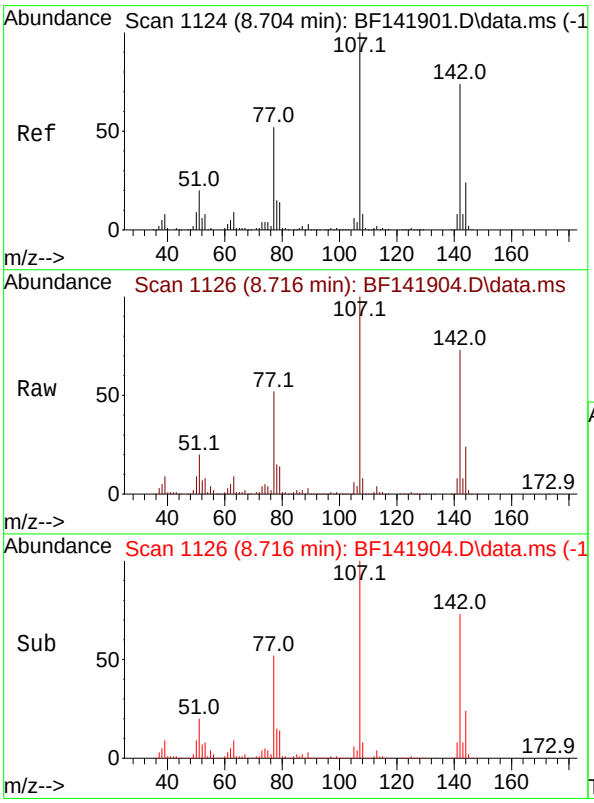
#35
Caprolactam
Concen: 59.762 ng
RT: 8.639 min Scan# 11
Delta R.T. 0.035 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:113 Resp: 222427

Ion	Ratio	Lower	Upper
113	100		
55	146.1	129.6	169.6
56	118.7	104.0	144.0

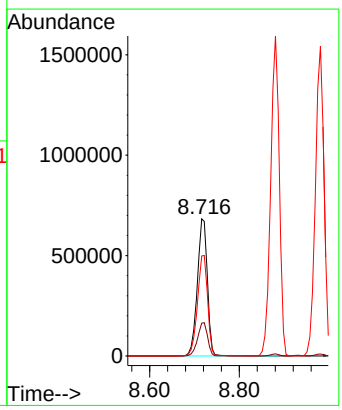


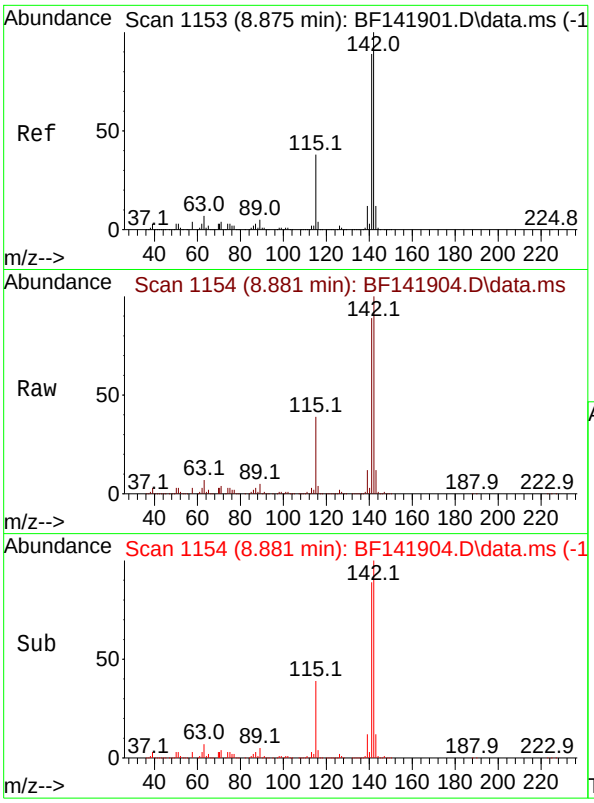


#36
4-Chloro-3-methylphenol
Concen: 77.644 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:107 Resp: 1056917

Ion	Ratio	Lower	Upper
107	100		
144	24.0	19.0	28.6
142	72.9	59.2	88.8



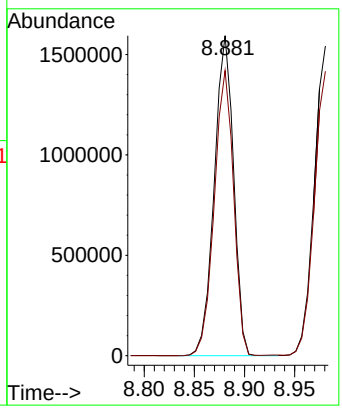


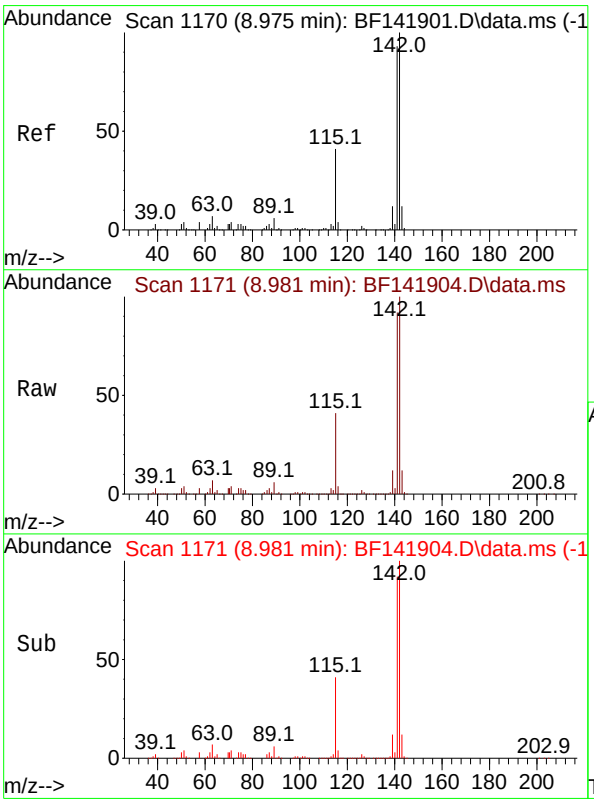
#37
2-Methylnaphthalene
Concen: 75.023 ng
RT: 8.881 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 2129990

Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.2	106.8

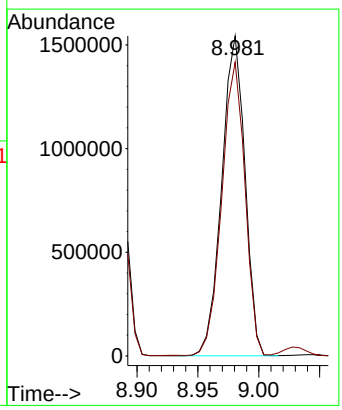


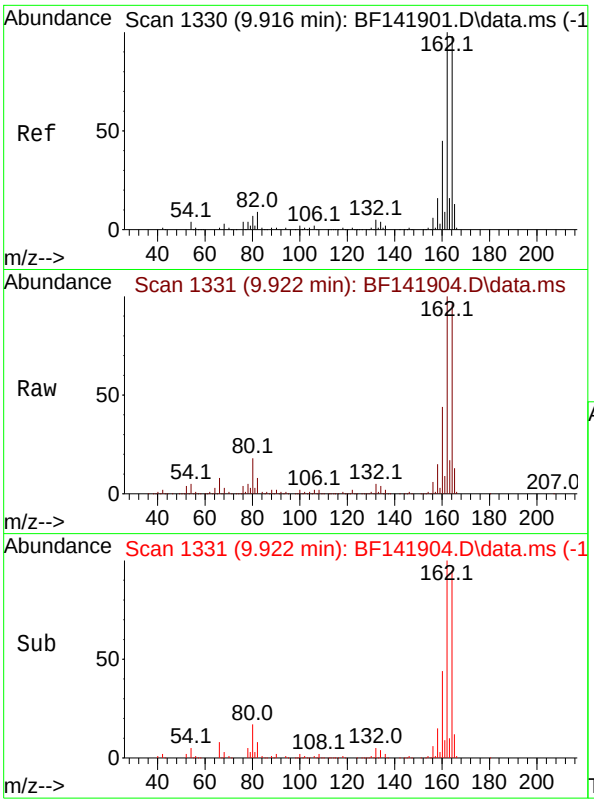


#38
1-Methylnaphthalene
Concen: 74.568 ng
RT: 8.981 min Scan# 1171
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:142 Resp: 2050191

Ion	Ratio	Lower	Upper
142	100		
141	91.8	74.2	111.4



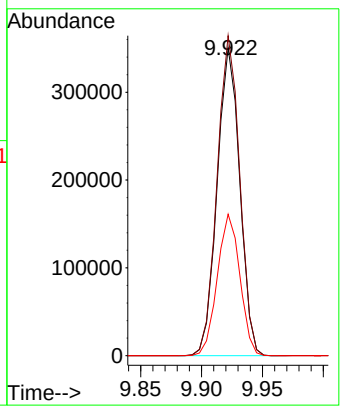


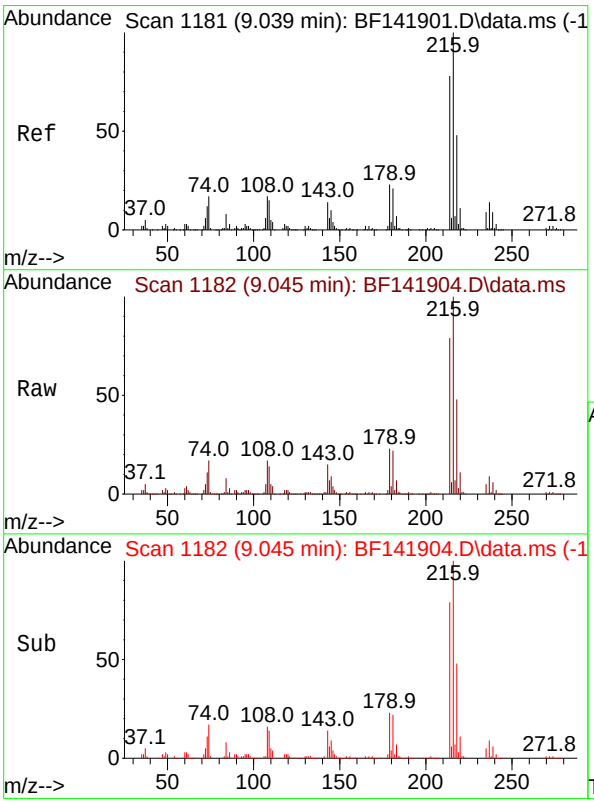
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:164 Resp: 452864

Ion	Ratio	Lower	Upper
164	100		
162	103.9	81.8	122.6
160	45.9	36.7	55.1

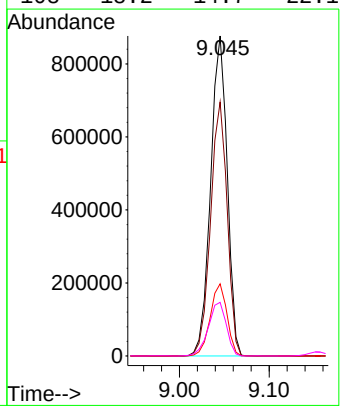


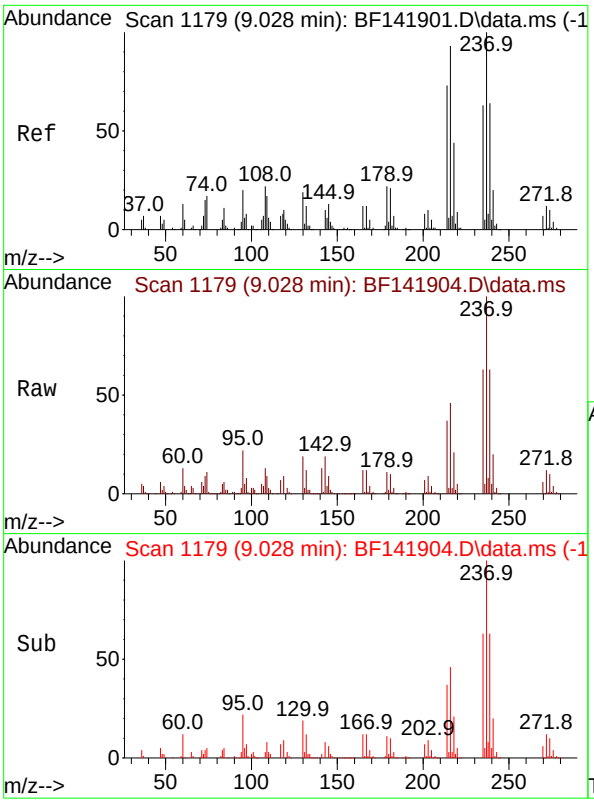


#40
1,2,4,5-Tetrachlorobenzene
Concen: 81.667 ng
RT: 9.045 min Scan# 1182
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:216 Resp: 1127671

Ion	Ratio	Lower	Upper
216	100		
214	79.3	61.9	92.9
179	22.7	18.1	27.1
108	18.2	14.7	22.1



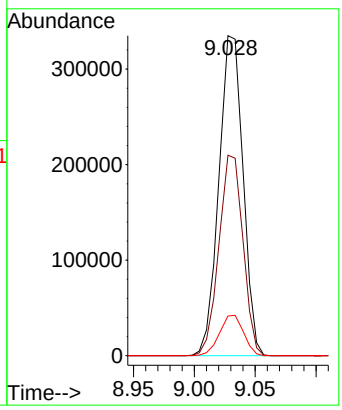


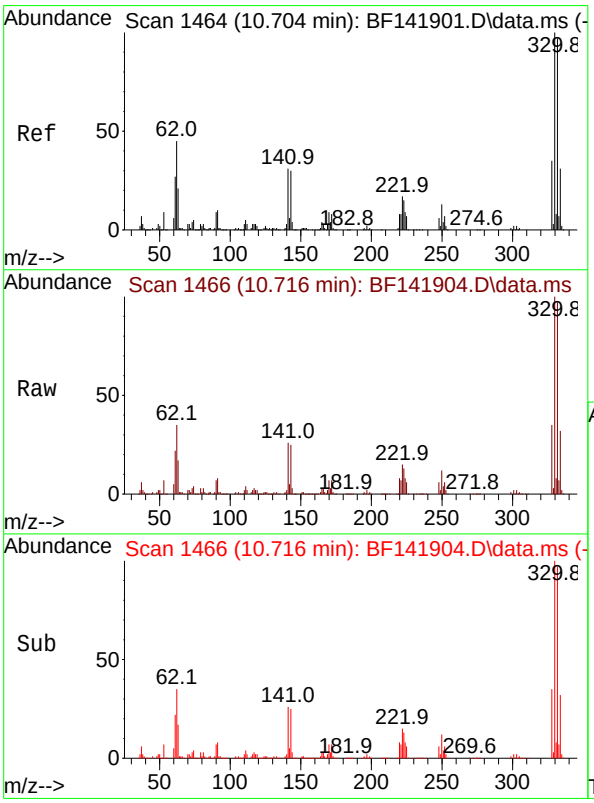
#41
Hexachlorocyclopentadiene
Concen: 85.031 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:237 Resp: 463300

Ion	Ratio	Lower	Upper
237	100		
235	62.6	43.1	83.1
272	12.4	0.0	32.0

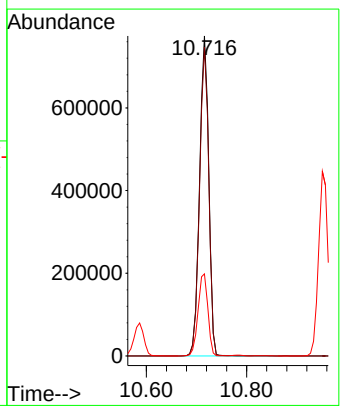


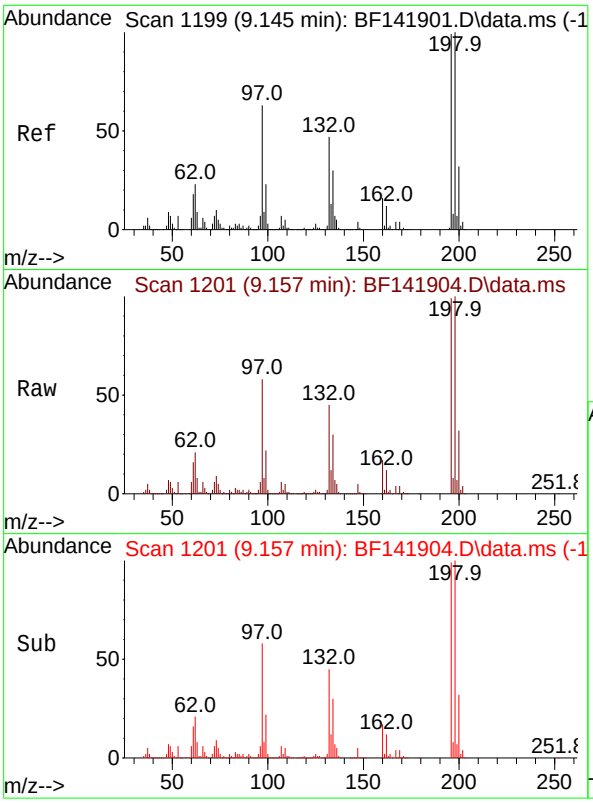


#42
2,4,6-Tribromophenol
Concen: 171.858 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:330 Resp: 986206

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.6	116.4
141	27.3	24.7	37.1



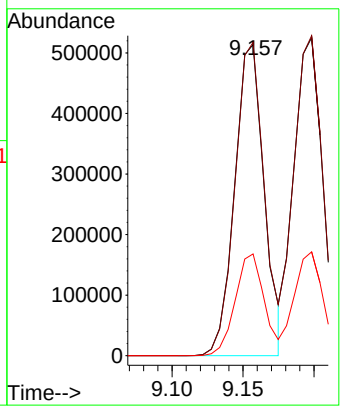


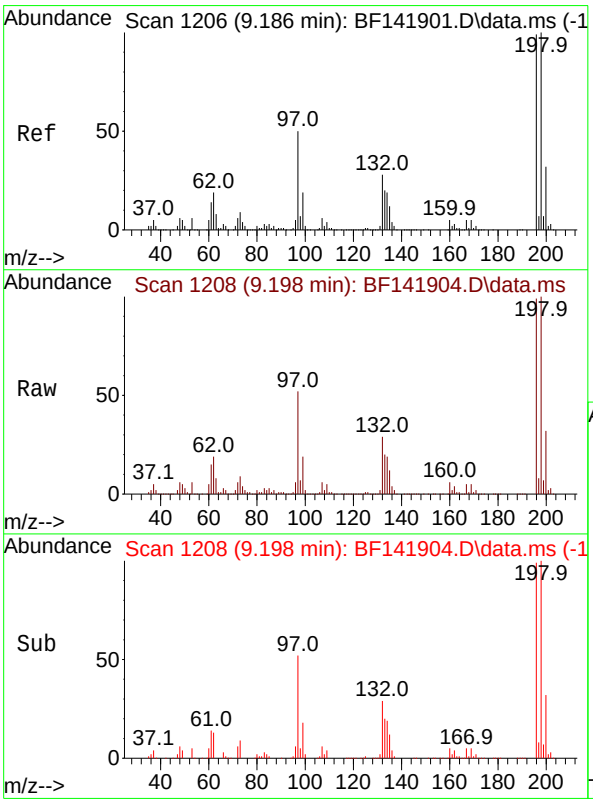
#43
2,4,6-Trichlorophenol
Concen: 82.399 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 741710

Ion	Ratio	Lower	Upper
196	100		
198	100.7	80.6	121.0
200	32.7	25.8	38.6

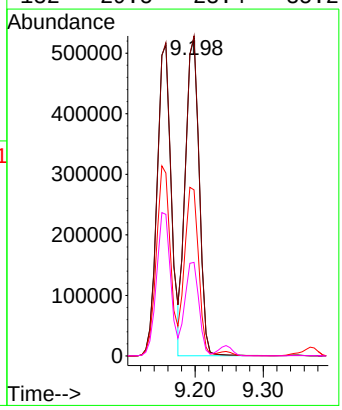


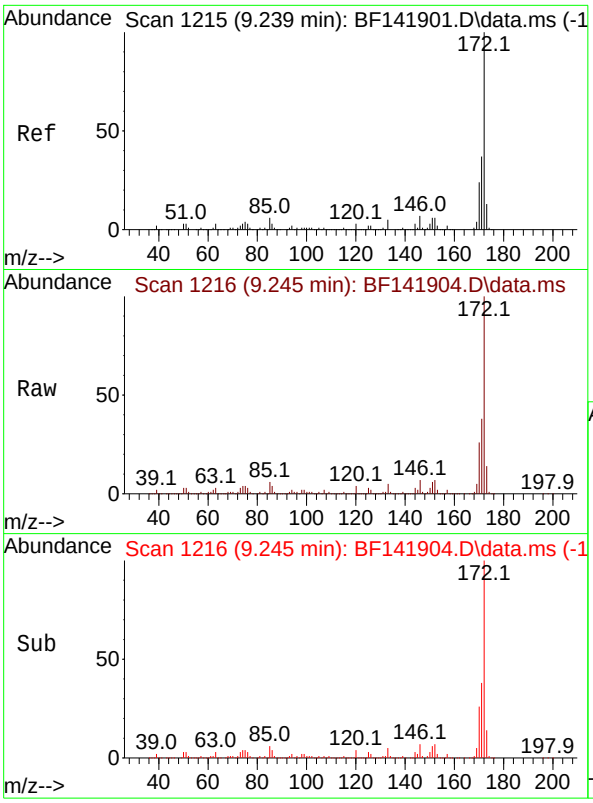


#44
2,4,5-Trichlorophenol
Concen: 80.579 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:196 Resp: 736926

Ion	Ratio	Lower	Upper
196	100		
198	100.6	80.7	121.1
97	52.2	42.1	63.1
132	29.5	23.4	35.2



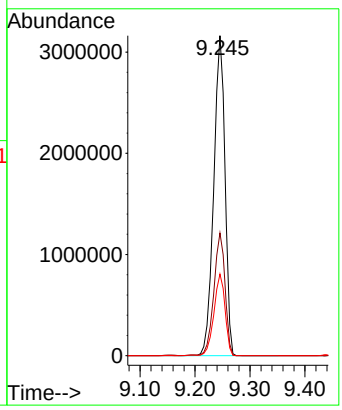


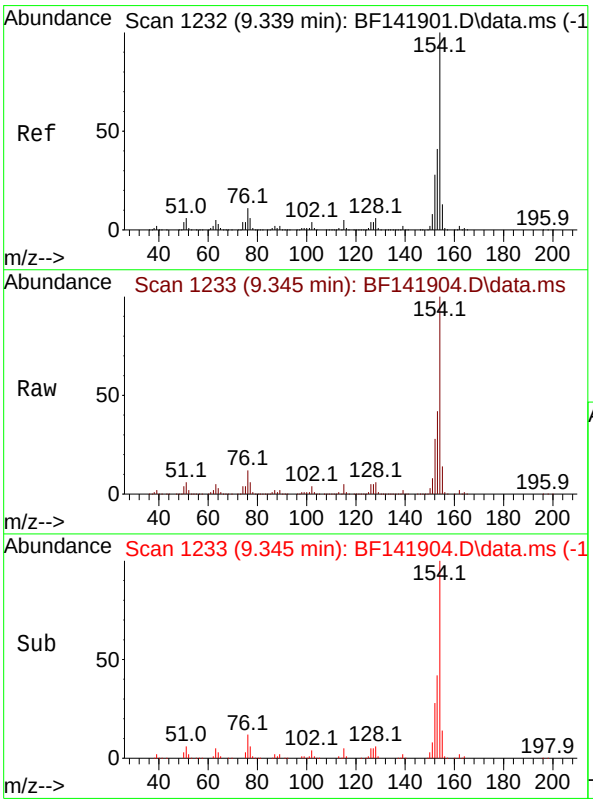
#45
2-Fluorobiphenyl
Concen: 151.763 ng
RT: 9.245 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:172 Resp: 4513418

Ion	Ratio	Lower	Upper
172	100		
171	38.4	29.3	43.9
170	25.5	19.4	29.0

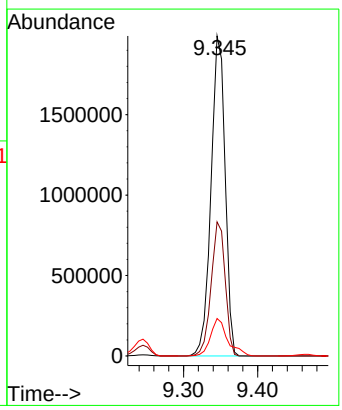


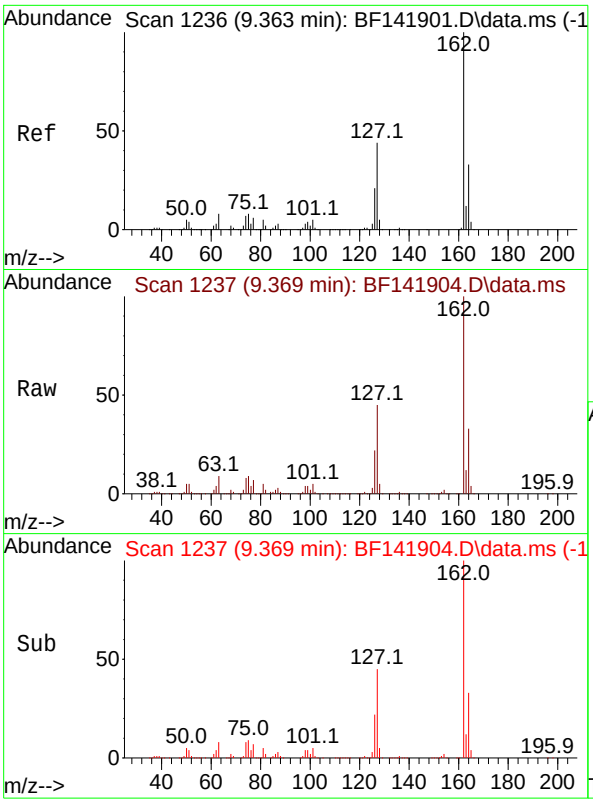


#46
1,1'-Biphenyl
Concen: 76.503 ng
RT: 9.345 min Scan# 1233
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:154 Resp: 2626697

Ion	Ratio	Lower	Upper
154	100		
153	41.9	21.1	61.1
76	11.7	0.0	31.3



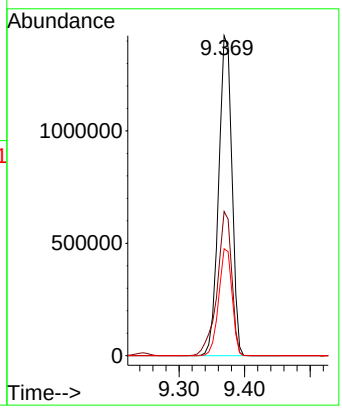


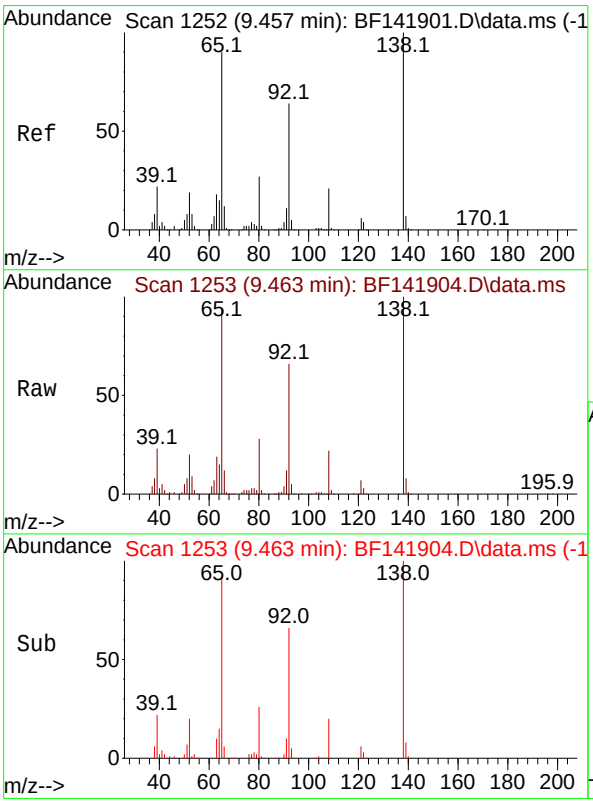
#47
2-Chloronaphthalene
Concen: 77.859 ng
RT: 9.369 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 1992242

Ion	Ratio	Lower	Upper
162	100		
127	45.0	35.5	53.3
164	33.4	26.6	40.0

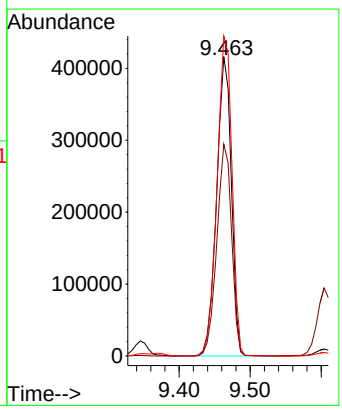


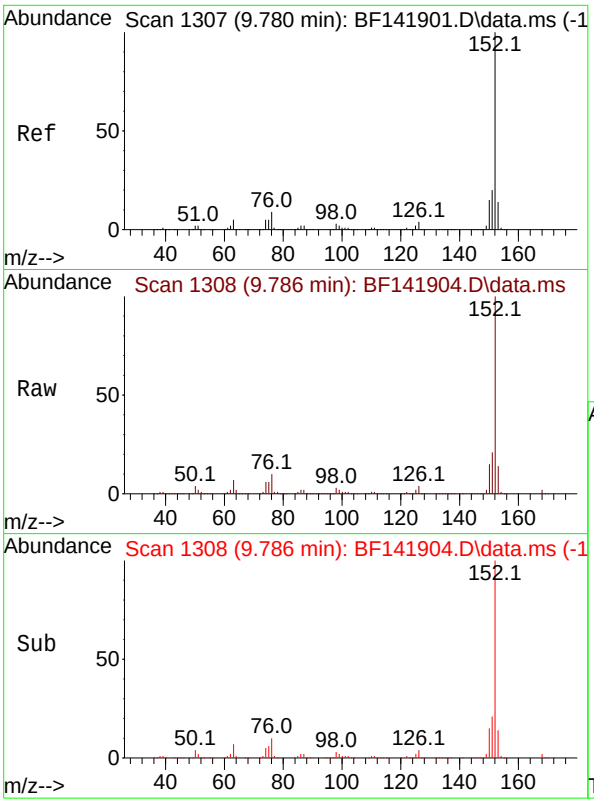


#48
2-Nitroaniline
Concen: 81.326 ng
RT: 9.463 min Scan# 1253
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion: 65 Resp: 597778

Ion	Ratio	Lower	Upper
65	100		
92	70.8	56.6	84.8
138	106.9	88.6	133.0



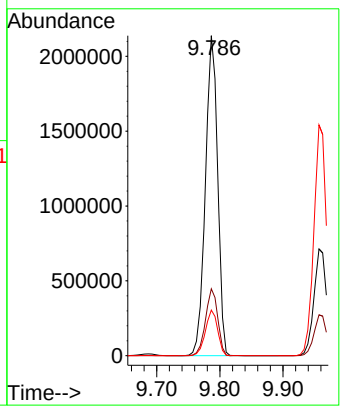


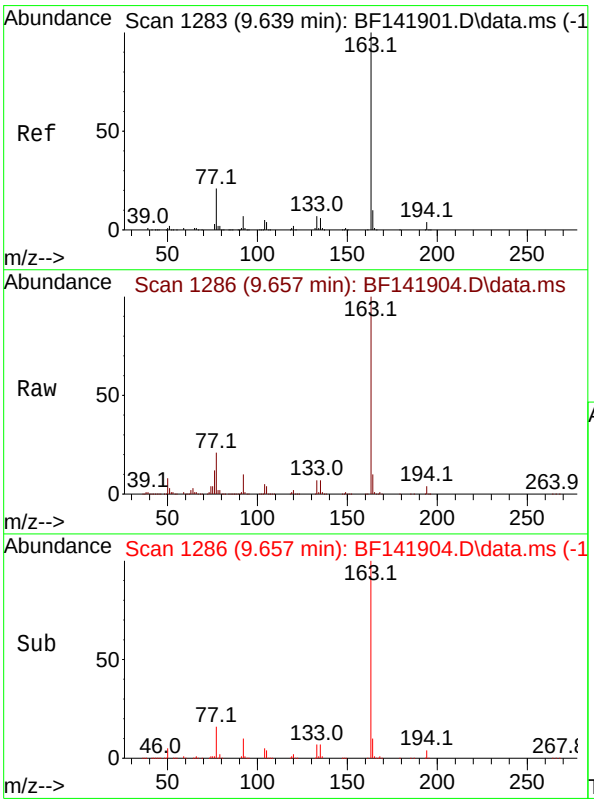
#49
Acenaphthylene
Concen: 75.877 ng
RT: 9.786 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 2878496

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.3	24.5
153	14.2	11.1	16.7

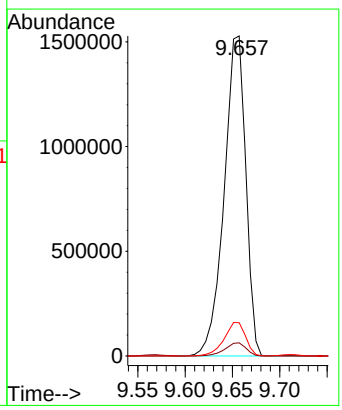


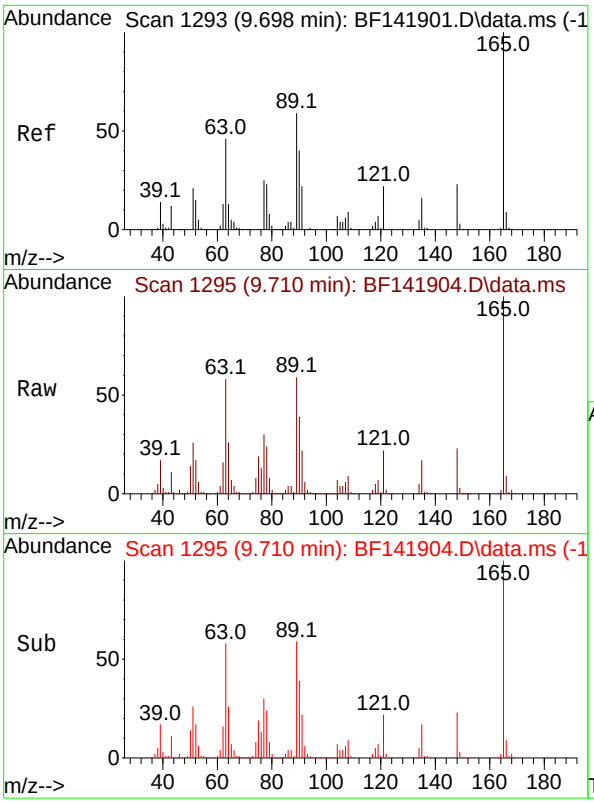


#50
Dimethylphthalate
Concen: 77.192 ng
RT: 9.657 min Scan# 1286
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:163 Resp: 2428843

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	10.4	8.2	12.4



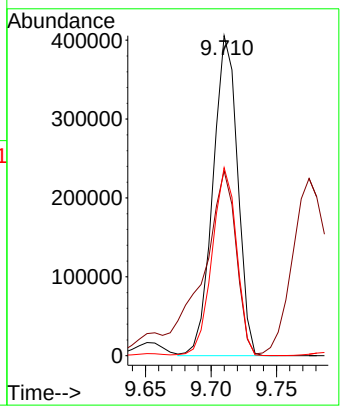


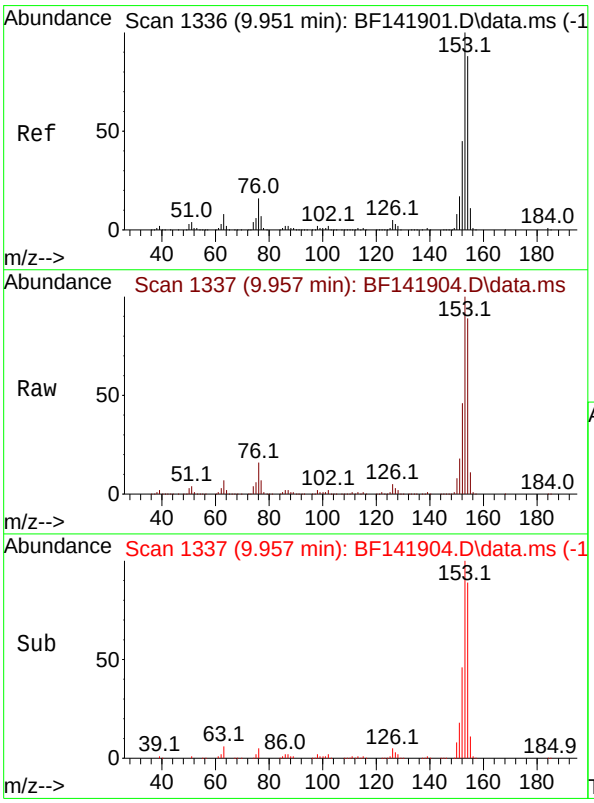
#51
2,6-Dinitrotoluene
Concen: 80.867 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 529139

Ion	Ratio	Lower	Upper
165	100		
63	57.7	47.0	70.4
89	58.8	47.4	71.2

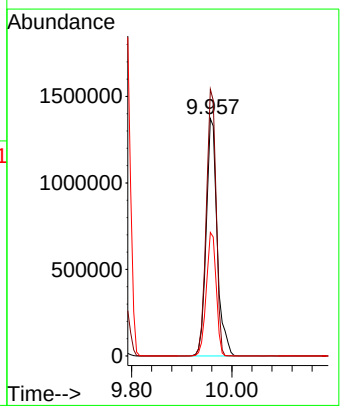


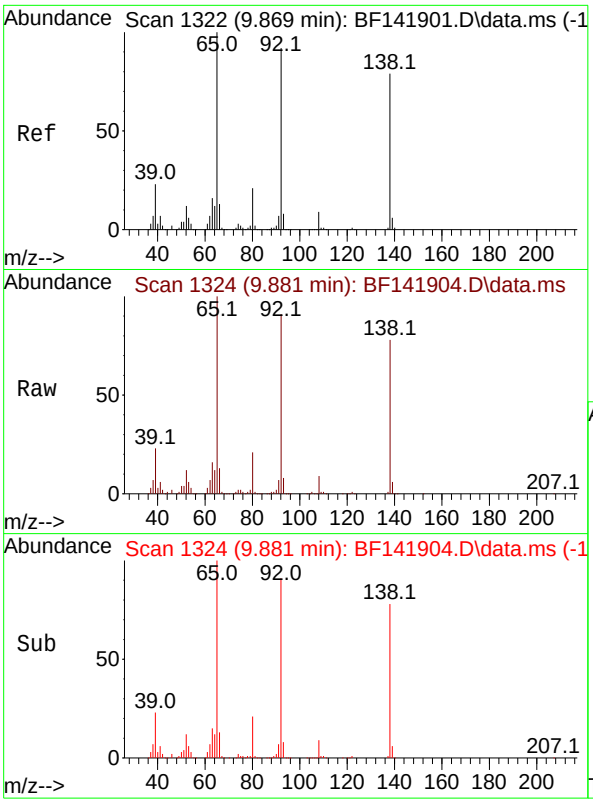


#52
Acenaphthene
Concen: 77.872 ng
RT: 9.957 min Scan# 1337
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:154 Resp: 2085941

Ion	Ratio	Lower	Upper
154	100		
153	112.4	90.7	136.1
152	52.0	41.1	61.7



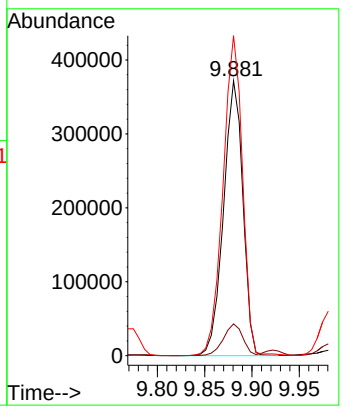


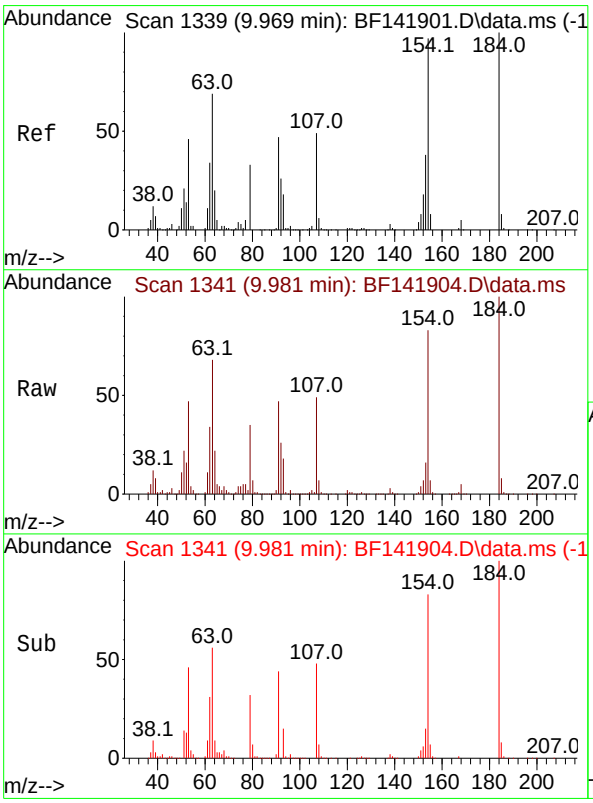
#53
3-Nitroaniline
Concen: 78.435 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 526980

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.3	13.9
92	116.4	93.5	140.3

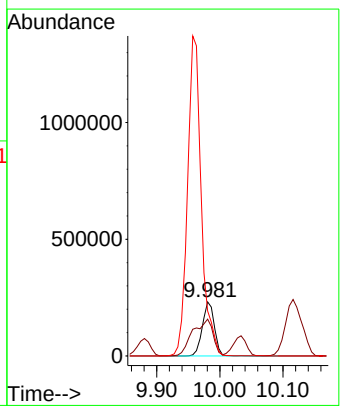


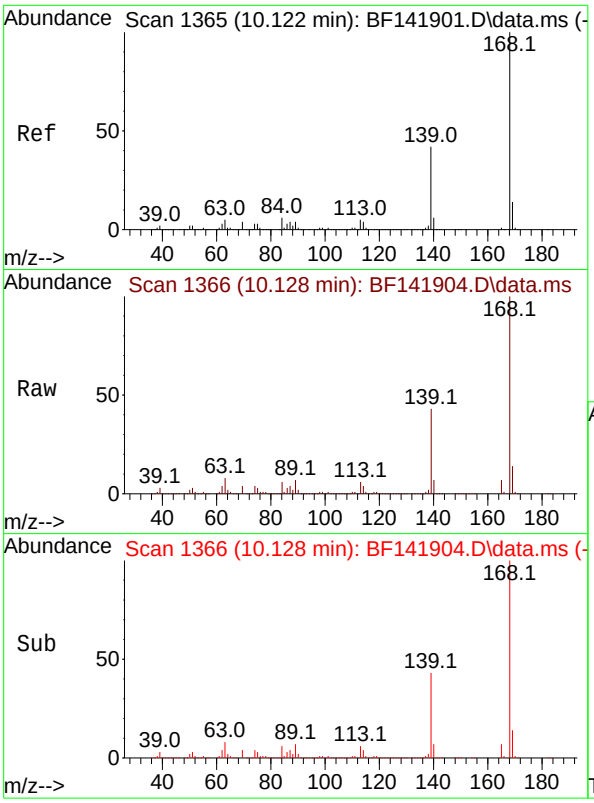


#54
2,4-Dinitrophenol
Concen: 81.479 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:184 Resp: 305399

Ion	Ratio	Lower	Upper
184	100		
63	68.1	60.2	90.4
154	82.9	132.9	199.3#



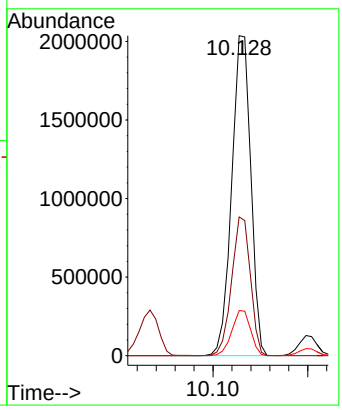


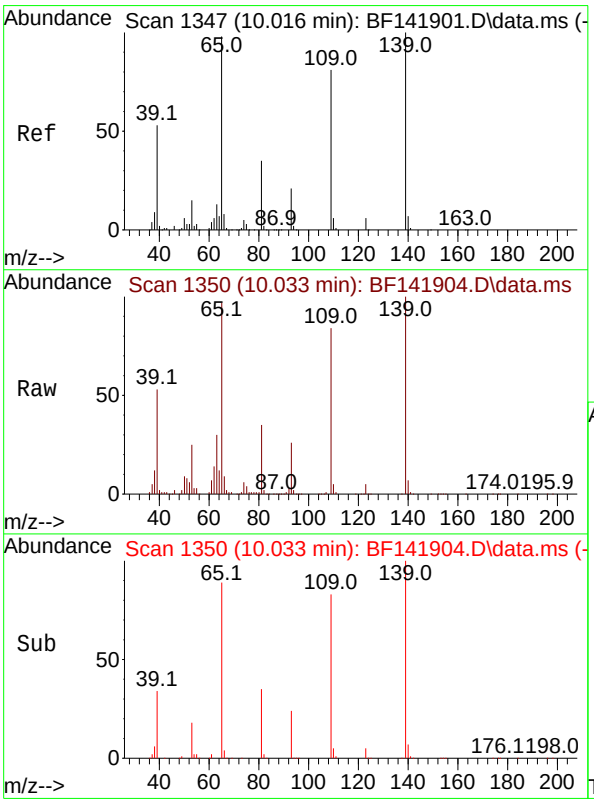
#55
Dibenzofuran
Concen: 74.474 ng
RT: 10.128 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:168 Resp: 2844432

Ion	Ratio	Lower	Upper
168	100		
139	43.4	33.9	50.9
169	14.1	11.0	16.4

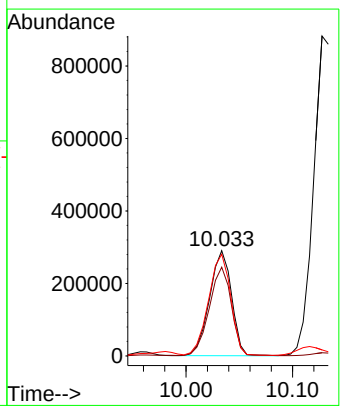


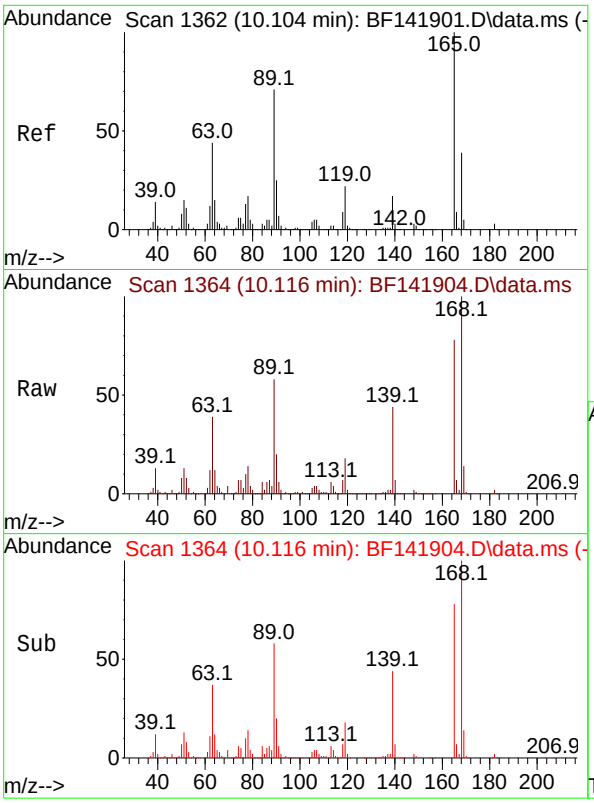


#56
4-Nitrophenol
Concen: 82.456 ng
RT: 10.033 min Scan# 1350
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:139 Resp: 416153

Ion	Ratio	Lower	Upper
139	100		
109	84.3	61.6	101.6
65	96.7	79.4	119.4



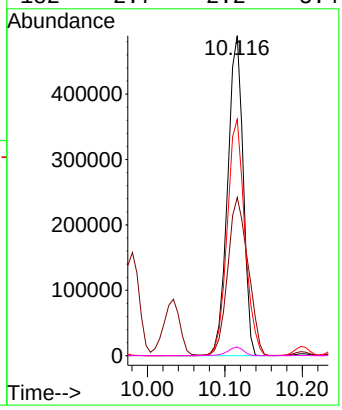


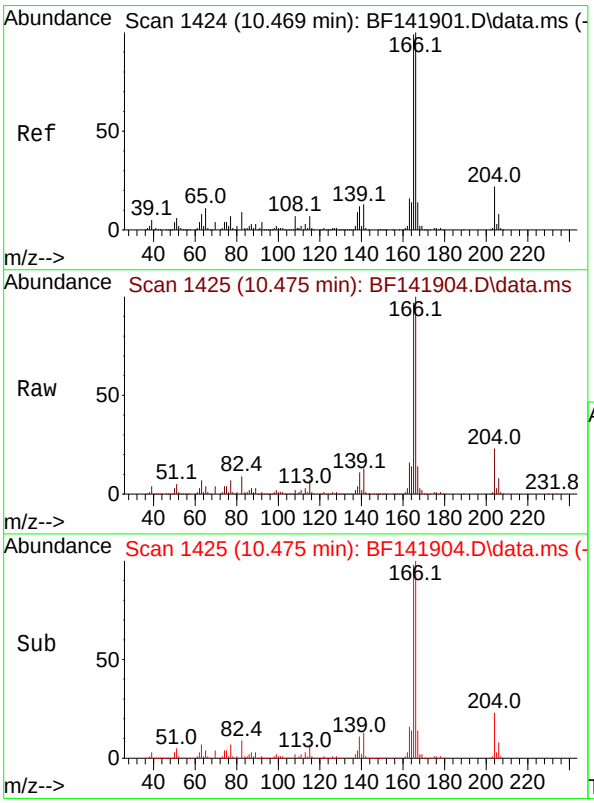
#57
2,4-Dinitrotoluene
Concen: 79.099 ng
RT: 10.116 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 681278

Ion	Ratio	Lower	Upper
165	100		
63	49.4	35.4	53.2
89	73.9	56.6	84.8
182	2.7	2.2	3.4

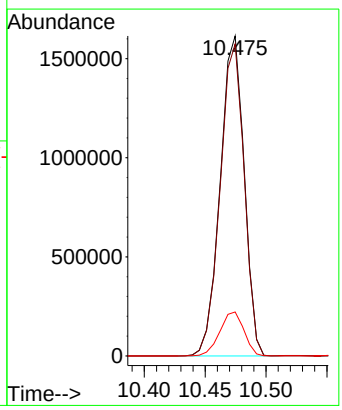


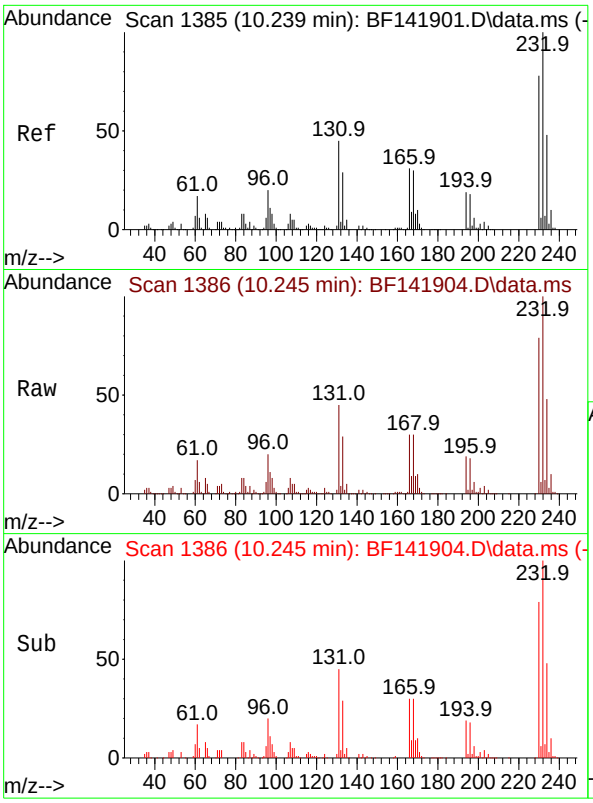


#58
Fluorene
Concen: 74.974 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:166 Resp: 2210653

Ion	Ratio	Lower	Upper
166	100		
165	97.5	79.0	118.4
167	13.8	11.0	16.4



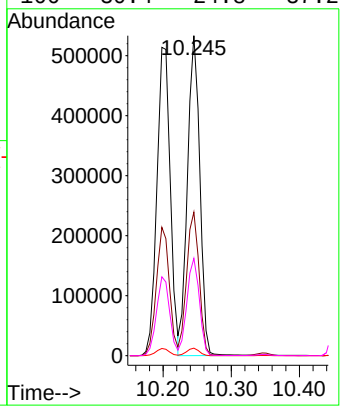


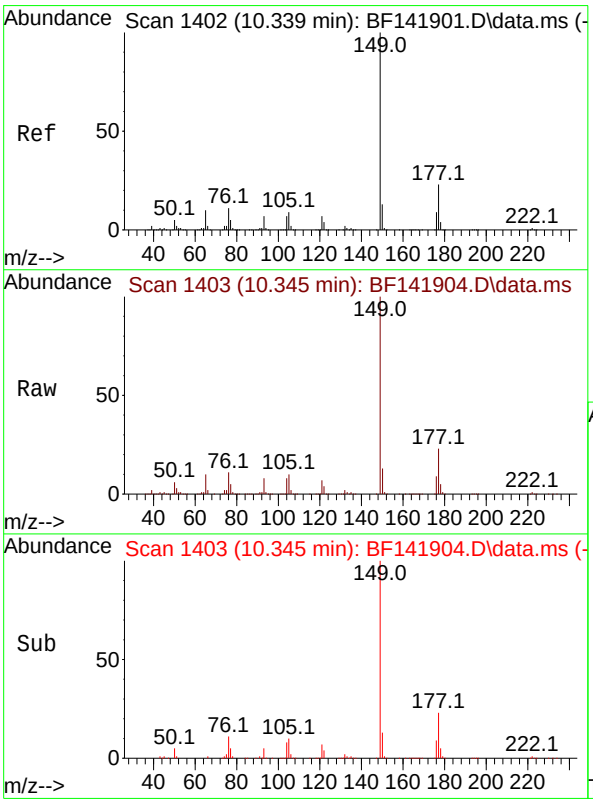
#59
2,3,4,6-Tetrachlorophenol
Concen: 80.507 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:232 Resp: 668027

Ion	Ratio	Lower	Upper
232	100		
131	45.4	37.3	55.9
130	2.3	1.9	2.9
166	30.4	24.8	37.2

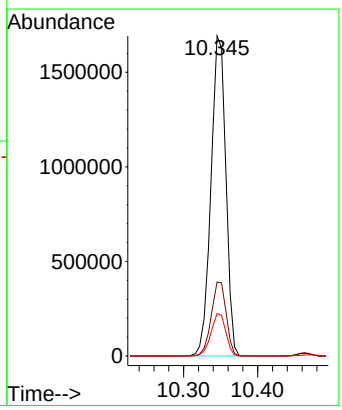


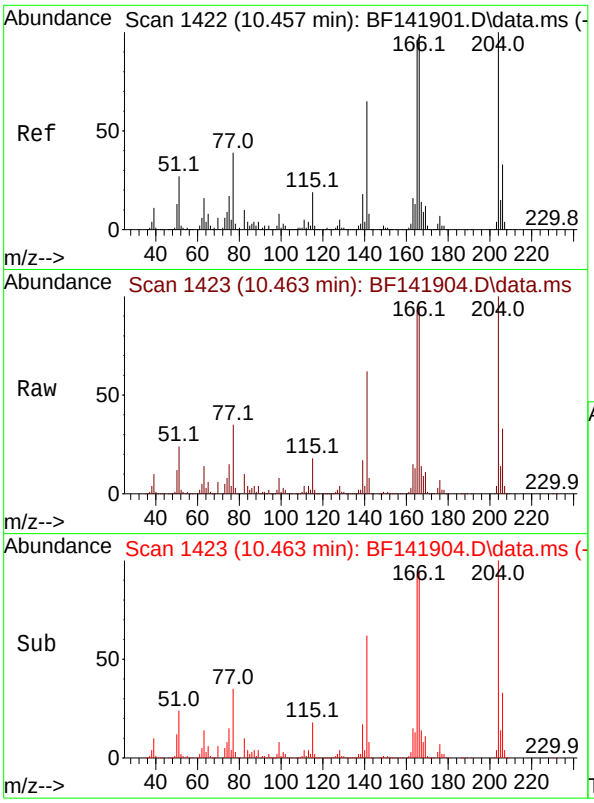


#60
Diethylphthalate
Concen: 74.681 ng
RT: 10.345 min Scan# 1403
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:149 Resp: 2358921

Ion	Ratio	Lower	Upper
149	100		
177	23.1	18.0	27.0
150	13.3	10.2	15.4



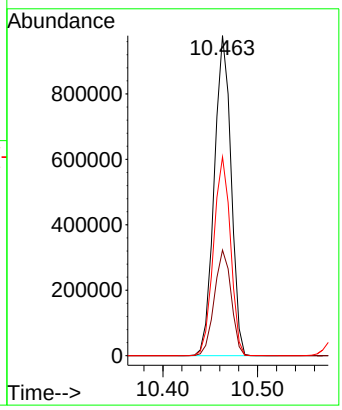


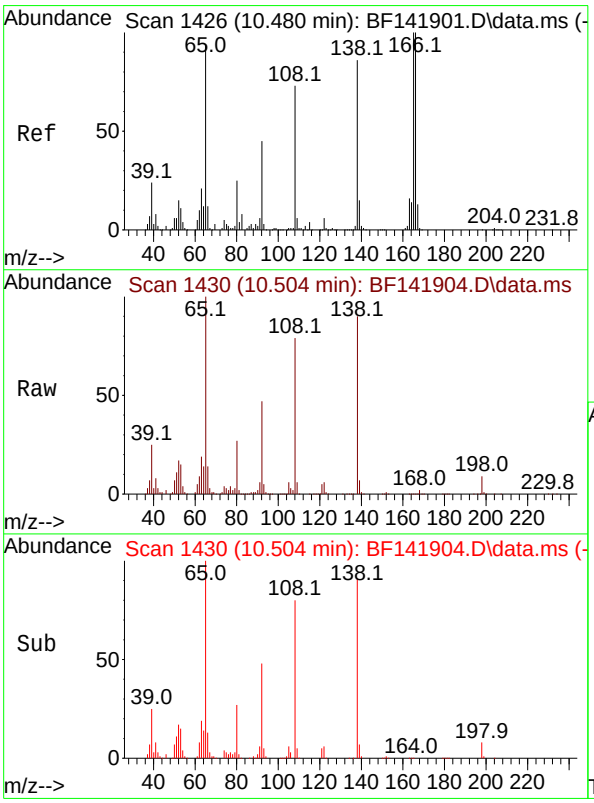
#61
4-Chlorophenyl-phenylether
Concen: 78.724 ng
RT: 10.463 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:204 Resp: 1209021

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.8	40.2
141	62.1	52.4	78.6

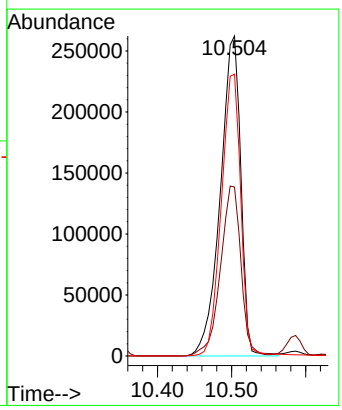


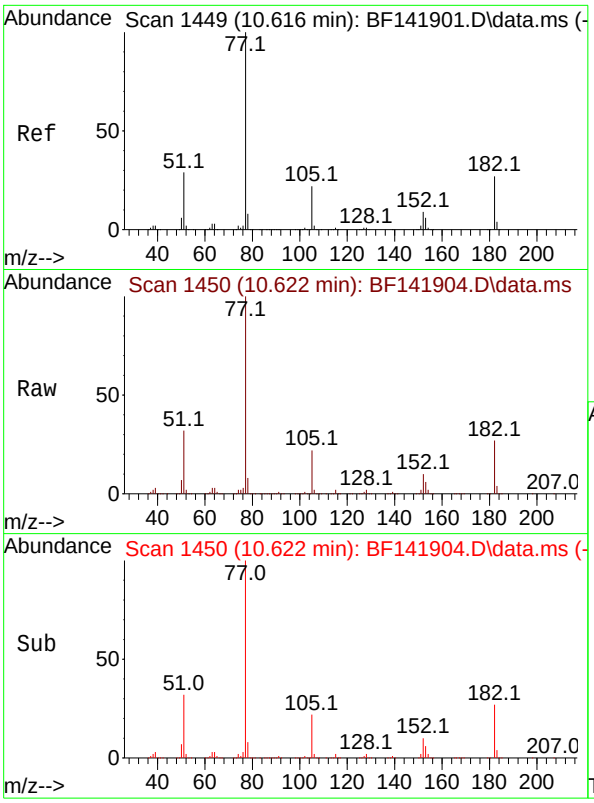


#62
4-Nitroaniline
Concen: 77.243 ng
RT: 10.504 min Scan# 1430
Delta R.T. 0.024 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:138 Resp: 502894

Ion	Ratio	Lower	Upper
138	100		
92	52.8	32.6	72.6
108	88.1	65.0	105.0



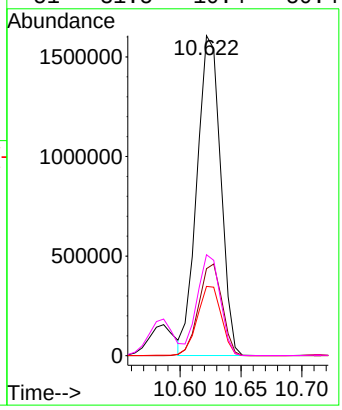


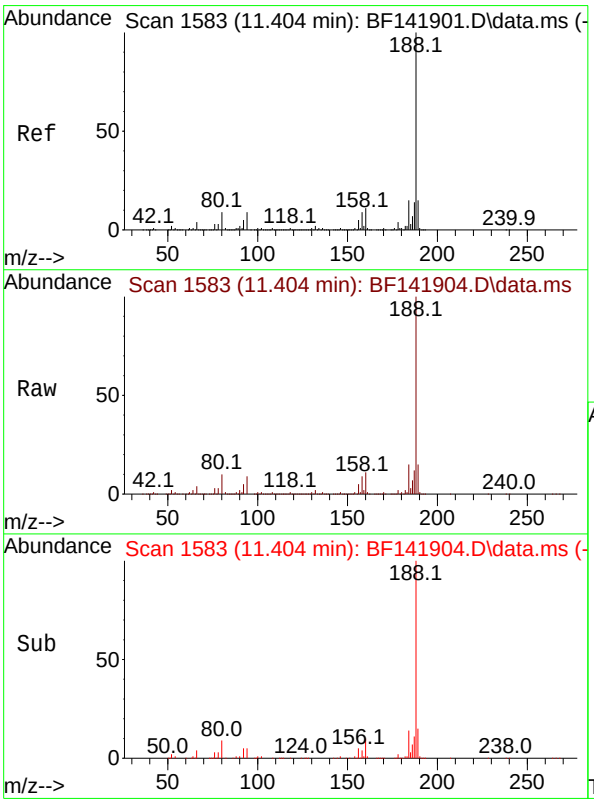
#63
Azobenzene
Concen: 73.911 ng
RT: 10.622 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 2168742

Ion	Ratio	Lower	Upper
77	100		
182	27.2	6.6	46.6
105	21.7	1.3	41.3
51	31.5	10.4	50.4

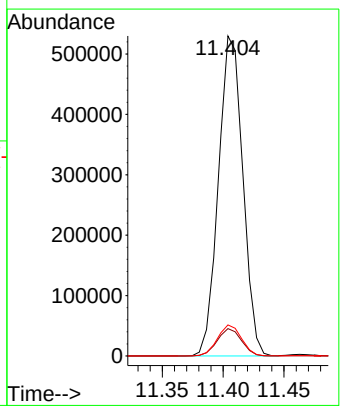


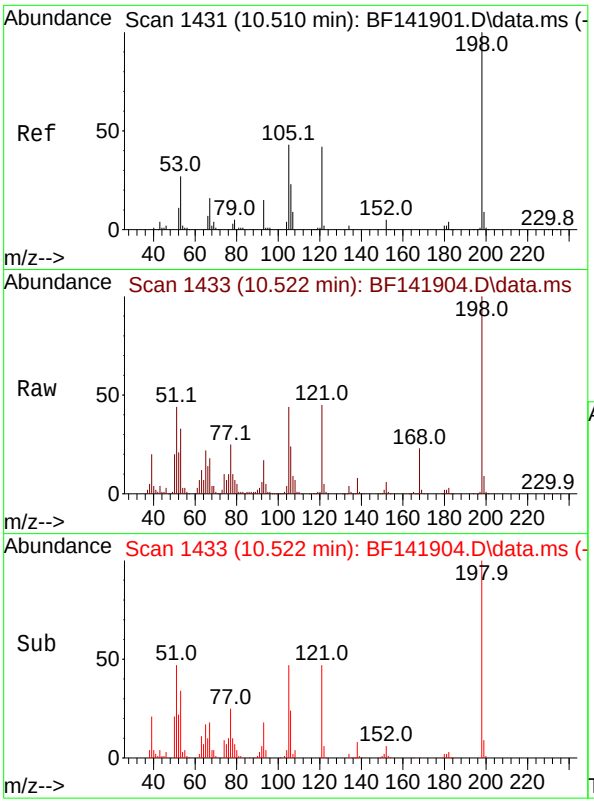


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:188 Resp: 738472

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.8	10.2
80	9.7	7.6	11.4



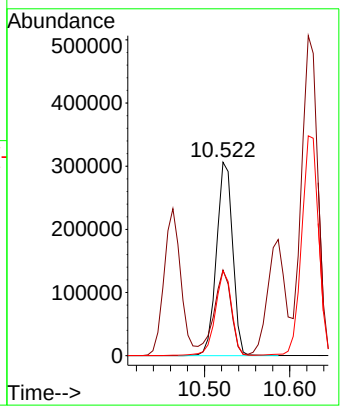


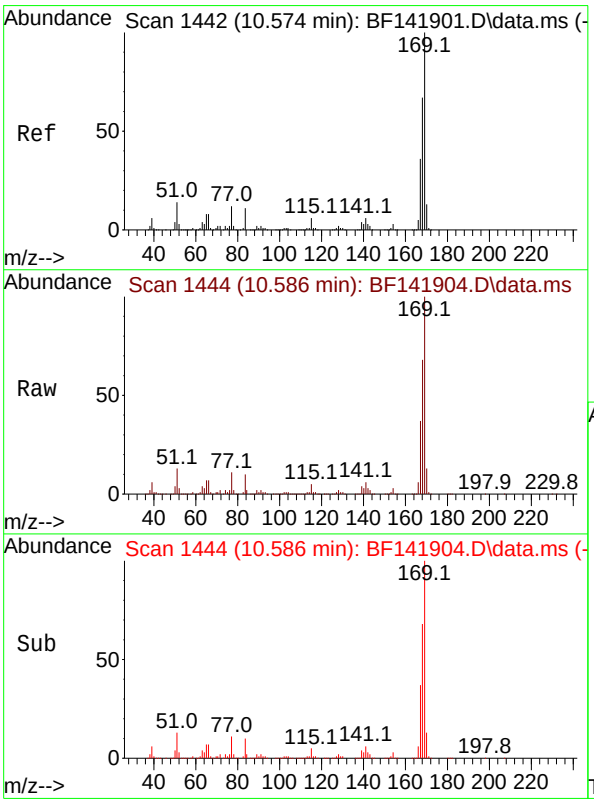
#65
4,6-Dinitro-2-methylphenol
Concen: 92.396 ng
RT: 10.522 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:198 Resp: 404505

Ion	Ratio	Lower	Upper
198	100		
51	44.2	22.3	62.3
105	43.9	23.0	63.0

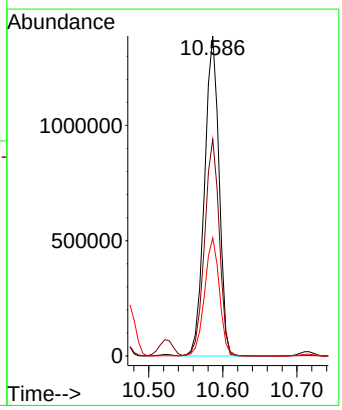


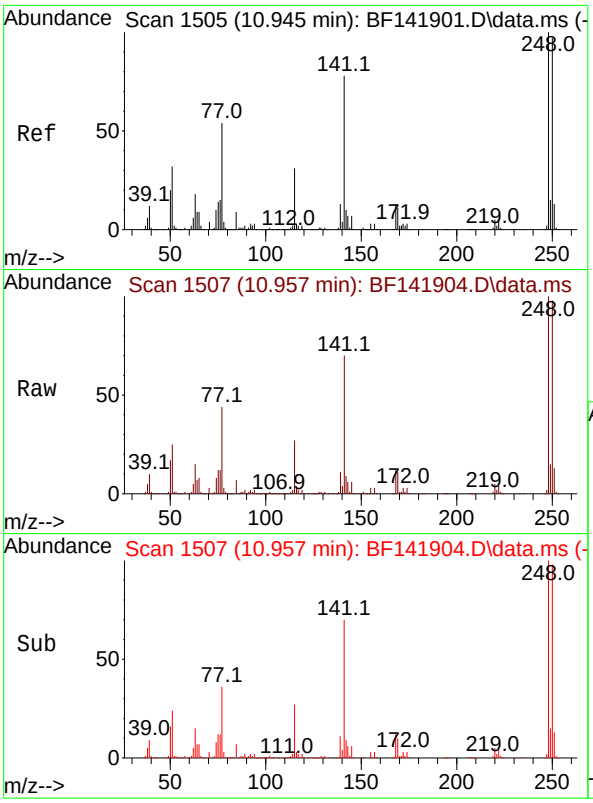


#66
n-Nitrosodiphenylamine
Concen: 78.895 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:169 Resp: 1882098

Ion	Ratio	Lower	Upper
169	100		
168	67.8	53.7	80.5
167	36.9	29.2	43.8



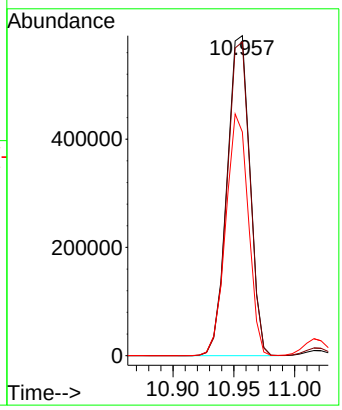


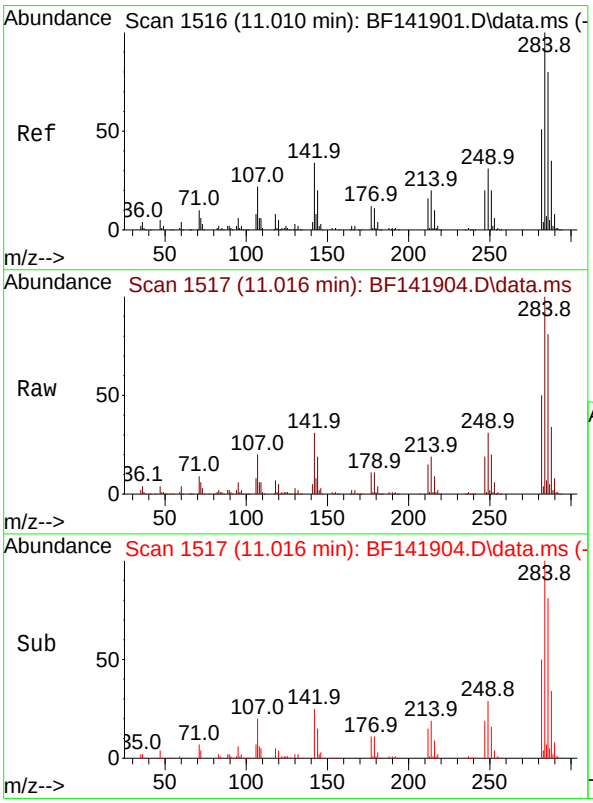
#67
4-Bromophenyl-phenylether
Concen: 84.232 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:248 Resp: 774645

Ion	Ratio	Lower	Upper
248	100		
250	98.1	77.8	116.8
141	69.9	62.6	93.8

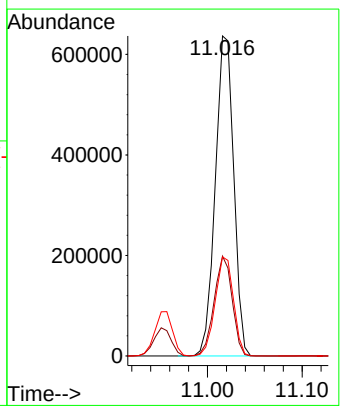


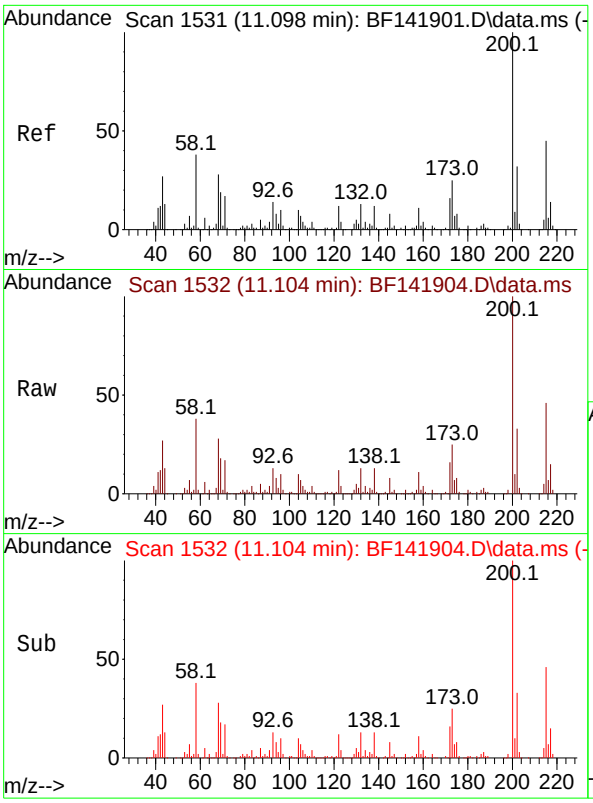


#68
Hexachlorobenzene
Concen: 84.832 ng
RT: 11.016 min Scan# 1517
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:284 Resp: 862357

Ion	Ratio	Lower	Upper
284	100		
142	31.2	27.0	40.6
249	31.0	25.2	37.8



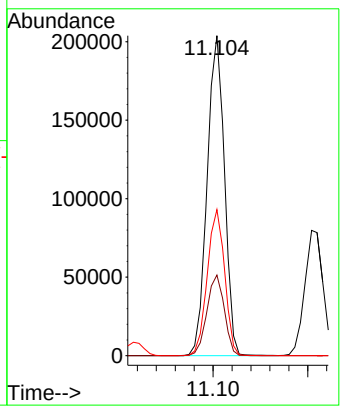


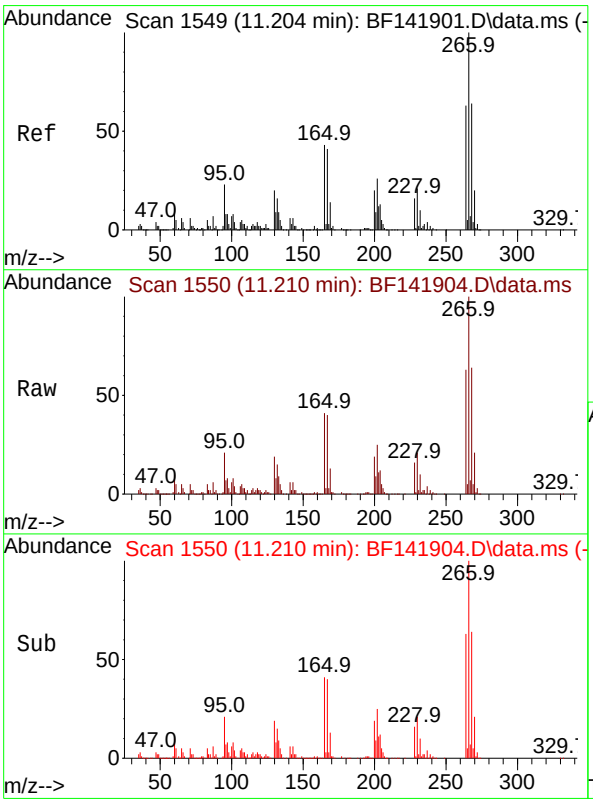
#69
Atrazine
Concen: 44.445 ng
RT: 11.104 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:200 Resp: 258544

Ion	Ratio	Lower	Upper
200	100		
173	25.2	4.7	44.7
215	45.7	25.4	65.4

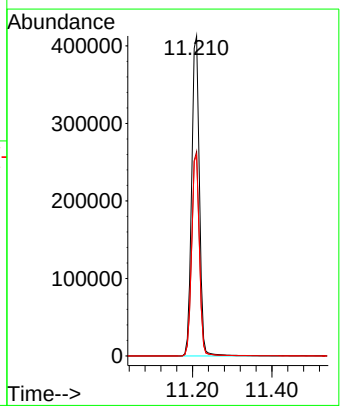


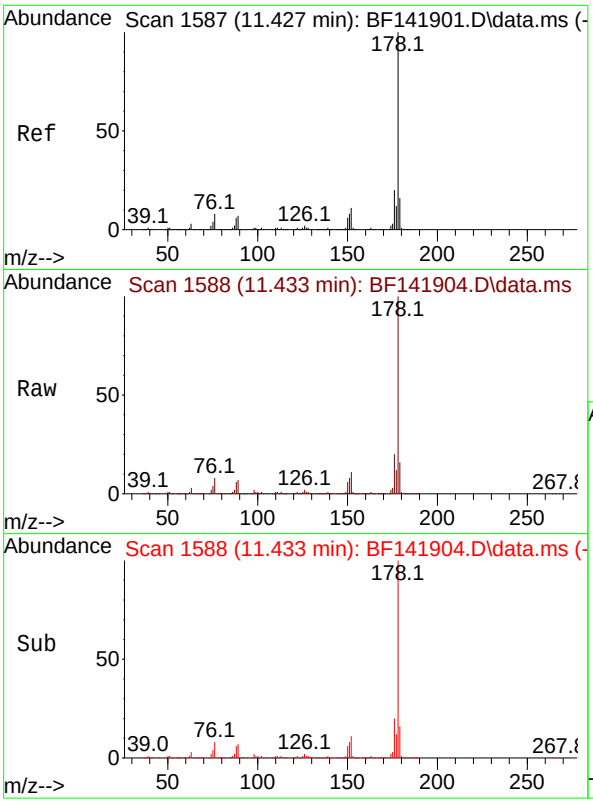


#70
Pentachlorophenol
Concen: 89.813 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:266 Resp: 563030

Ion	Ratio	Lower	Upper
266	100		
268	63.9	51.0	76.6
264	62.9	50.2	75.2



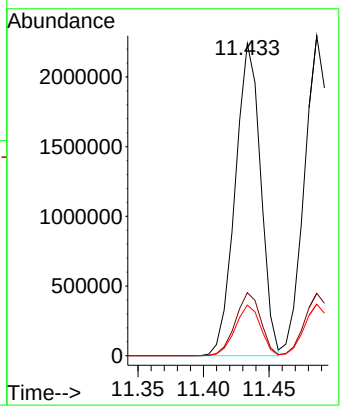


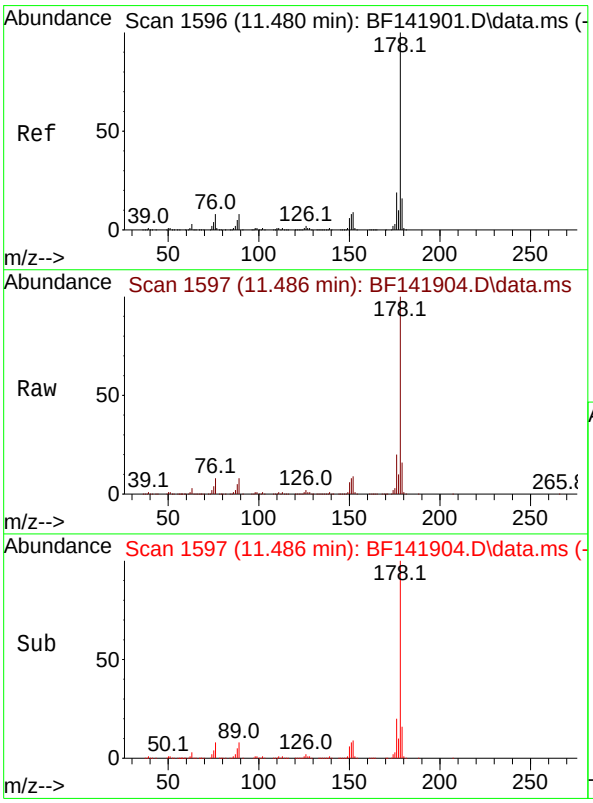
#71
Phenanthrene
Concen: 75.649 ng
RT: 11.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 3020950

Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.8	23.8
179	16.2	12.6	19.0

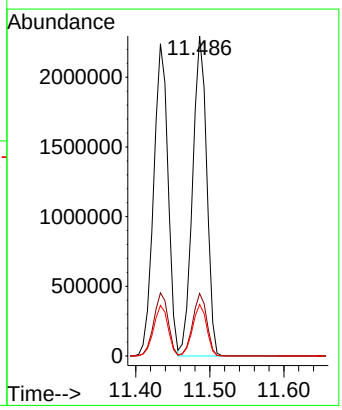


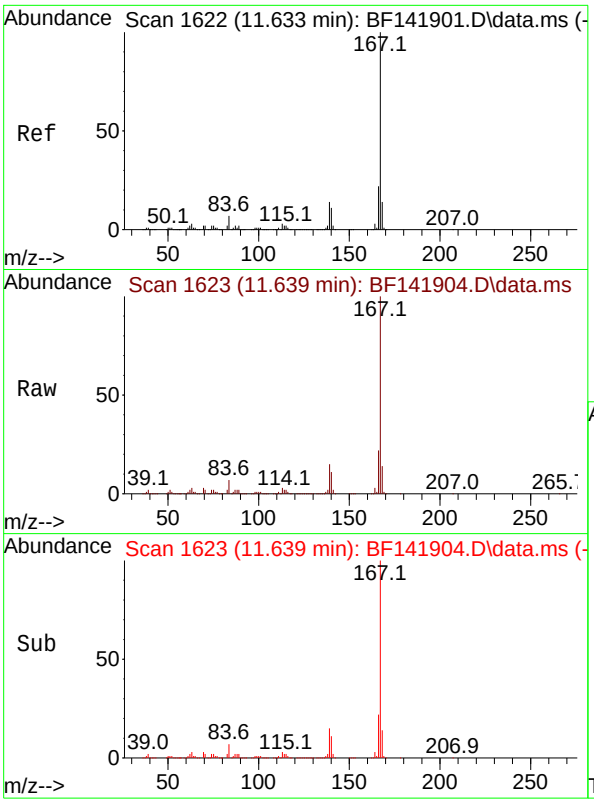


#72
Anthracene
Concen: 75.653 ng
RT: 11.486 min Scan# 1597
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:178 Resp: 3031014

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.1	22.7
179	16.1	12.6	19.0



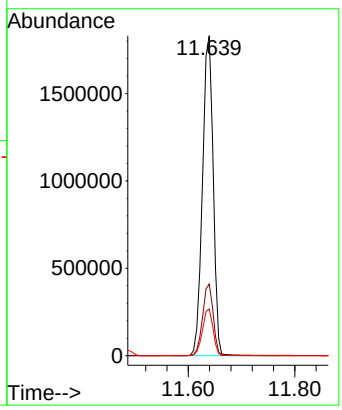


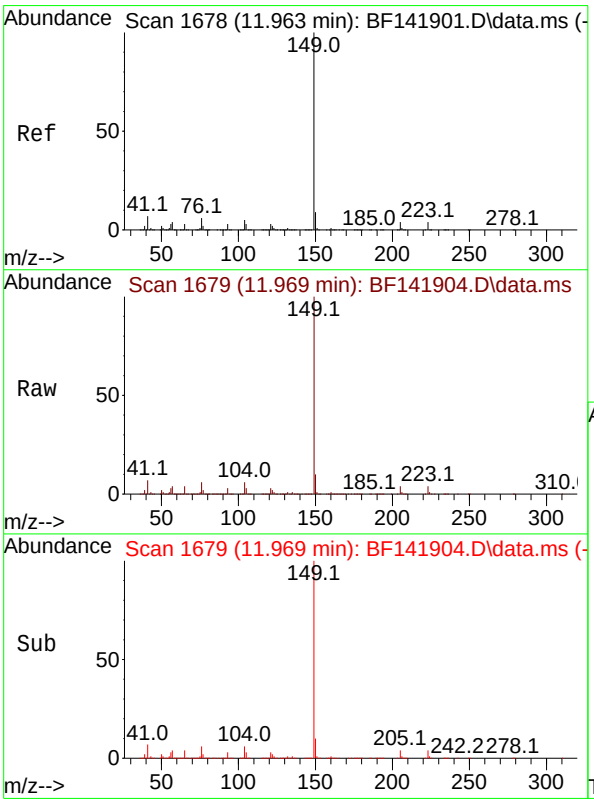
#73
Carbazole
Concen: 74.002 ng
RT: 11.639 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:167 Resp: 2552563

Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.4	26.2
139	14.6	11.0	16.6

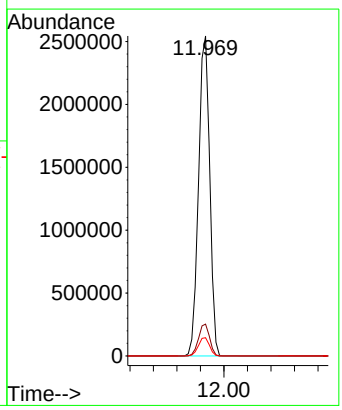


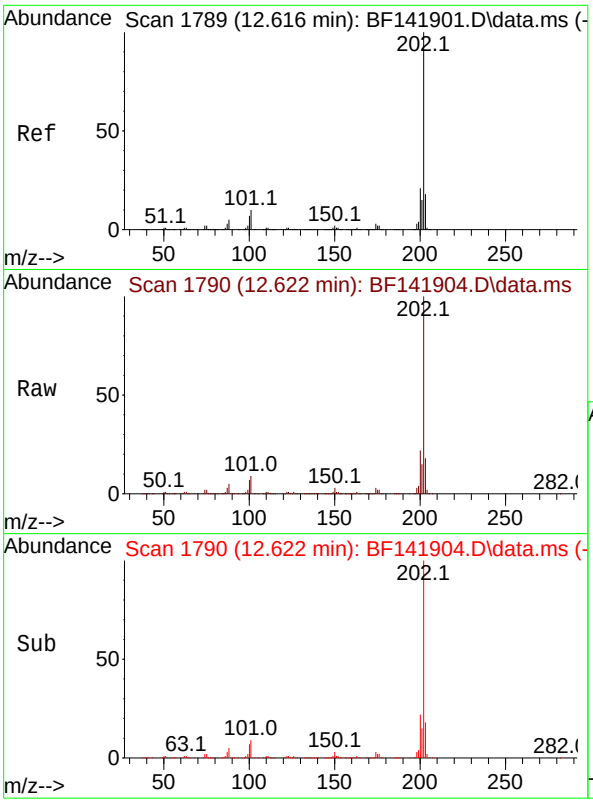


#74
Di-n-butylphthalate
Concen: 73.399 ng
RT: 11.969 min Scan# 1679
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:149 Resp: 3342776

Ion	Ratio	Lower	Upper
149	100		
150	10.0	7.6	11.4
104	5.7	4.4	6.6



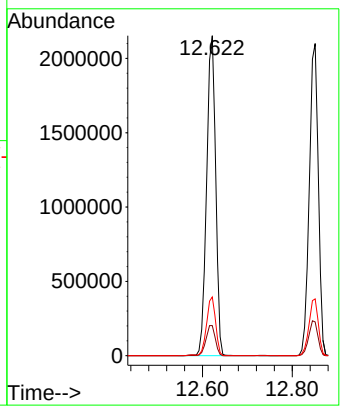


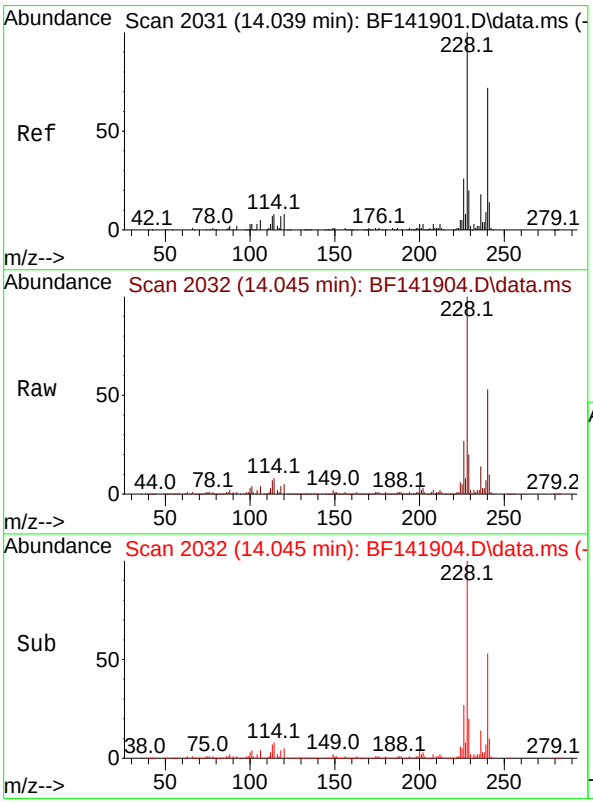
#75
Fluoranthene
Concen: 71.694 ng
RT: 12.622 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp: 3005566

Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	29.7
203	18.4	0.0	37.8

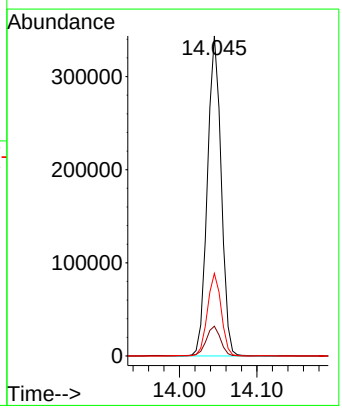


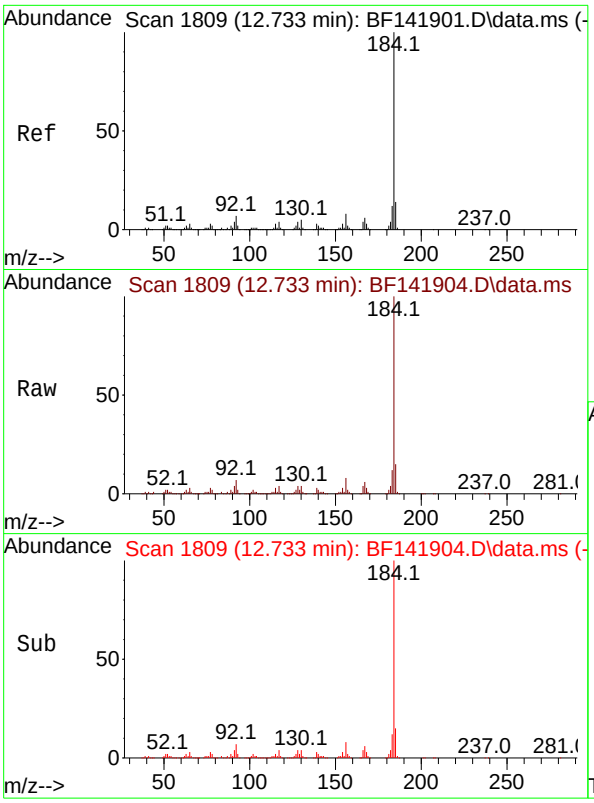


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:240 Resp: 424370

Ion	Ratio	Lower	Upper
240	100		
120	9.3	8.4	12.6
236	25.8	20.5	30.7



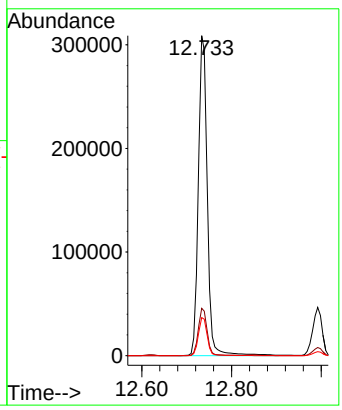


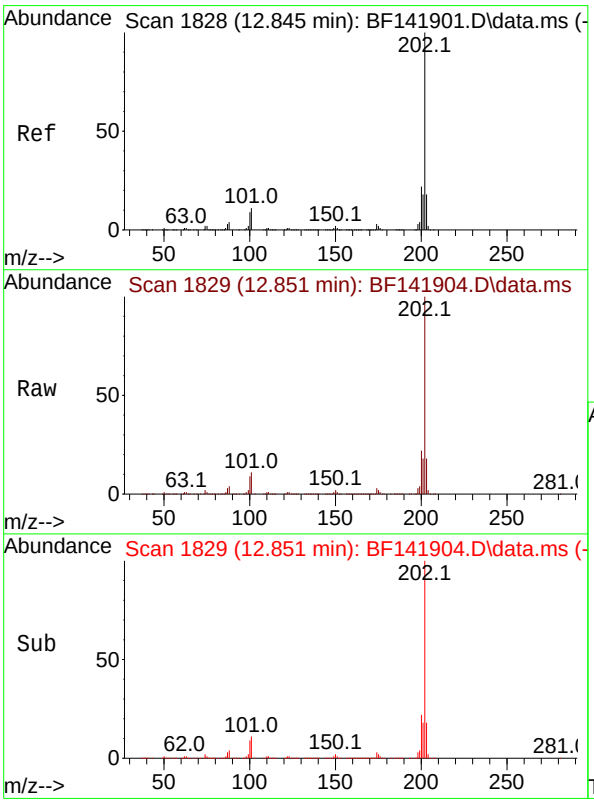
#77
Benzidine
Concen: 71.330 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 427770

Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.5	17.3
183	11.9	9.7	14.5

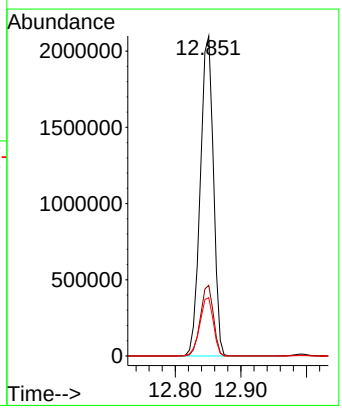


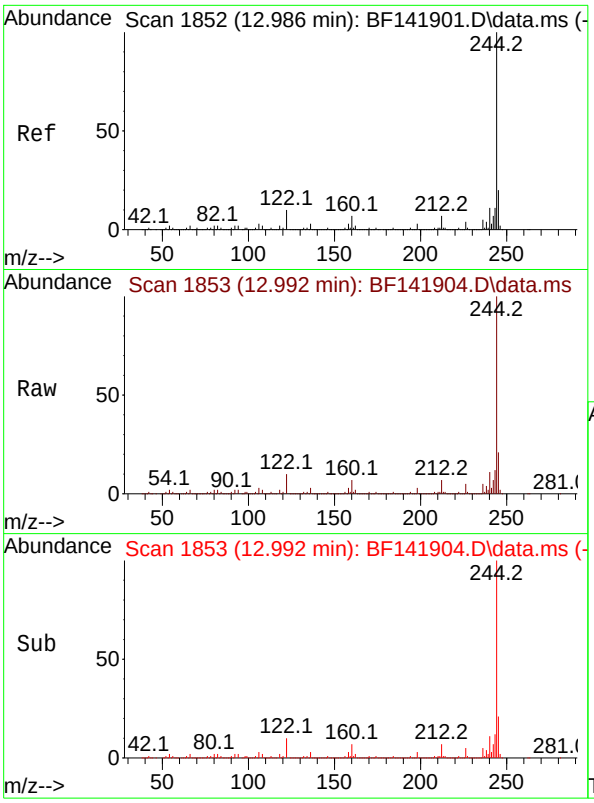


#78
Pyrene
Concen: 80.513 ng
RT: 12.851 min Scan# 1829
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:202 Resp: 2930115

Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.3	25.9
203	18.2	14.4	21.6



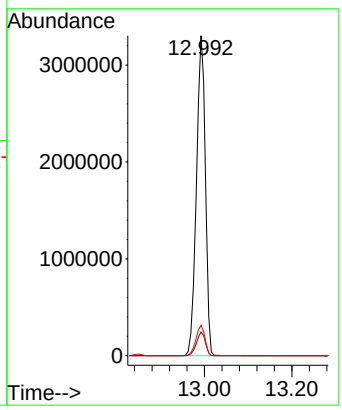


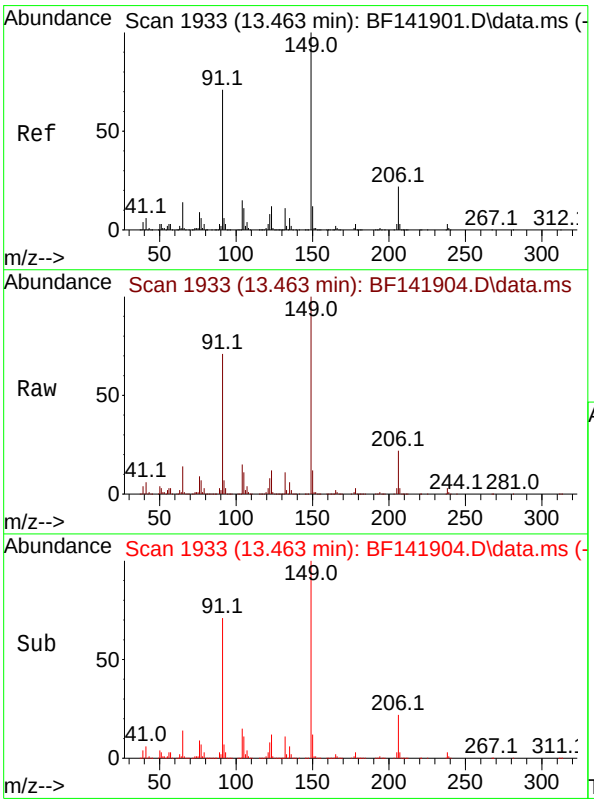
#79
Terphenyl-d14
Concen: 163.713 ng
RT: 12.992 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:244 Resp: 4700026

Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	9.5	7.7	11.5

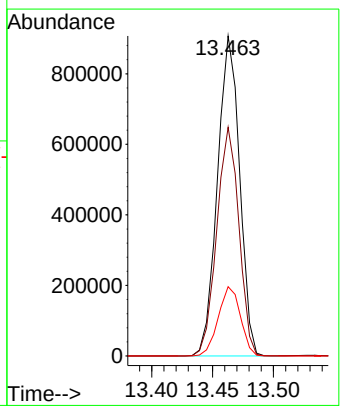


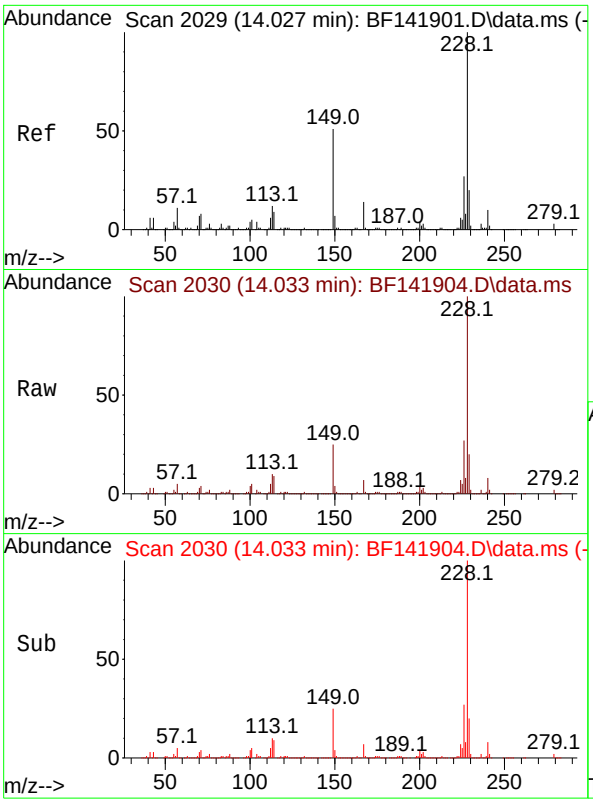


#80
Butylbenzylphthalate
Concen: 80.189 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:149 Resp: 1149989

Ion	Ratio	Lower	Upper
149	100		
91	71.4	56.5	84.7
206	21.7	17.3	25.9



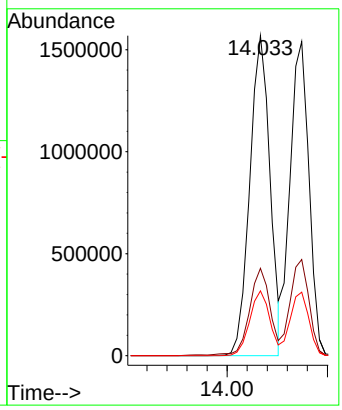


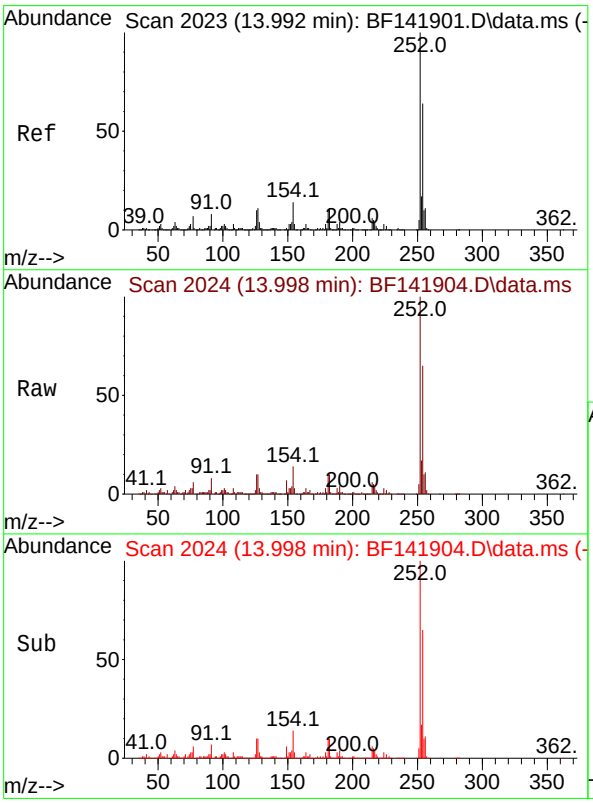
#81
Benzo(a)anthracene
Concen: 78.692 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 2196935

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	20.3	16.0	24.0

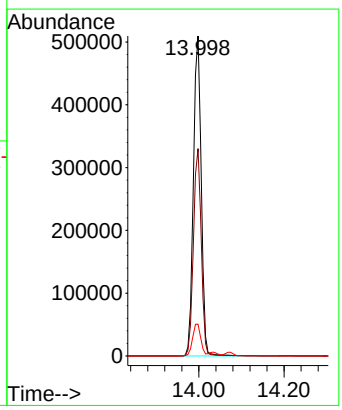


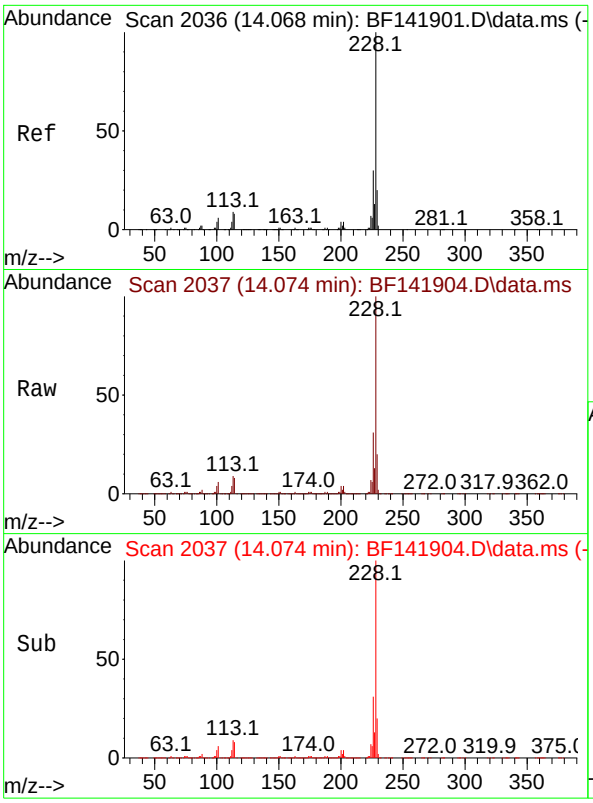


#82
3,3'-Dichlorobenzidine
Concen: 80.884 ng
RT: 13.998 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:252 Resp: 652678

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.0	76.6
126	9.9	8.4	12.6



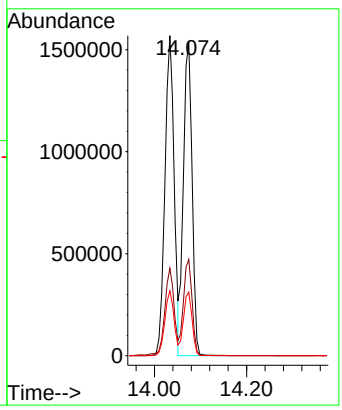


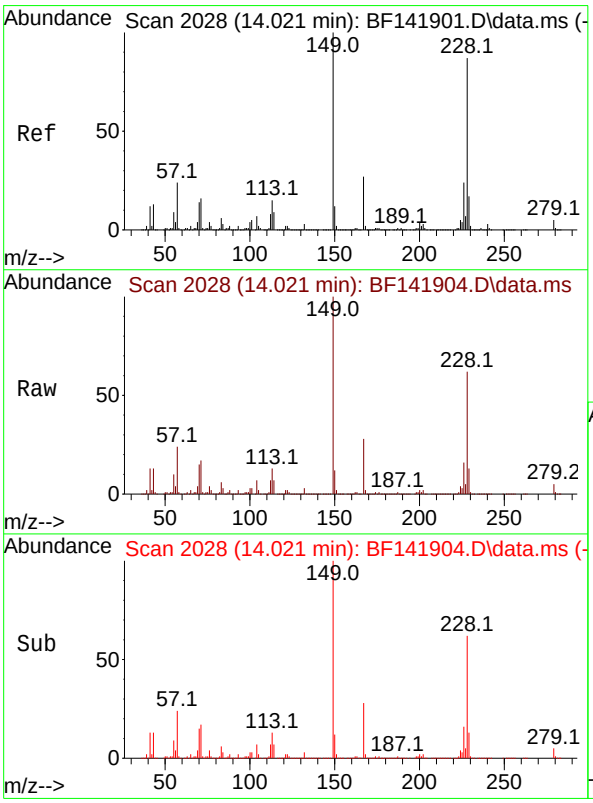
#83
Chrysene
Concen: 80.498 ng
RT: 14.074 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 2018832

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.1	36.1
229	20.2	15.7	23.5

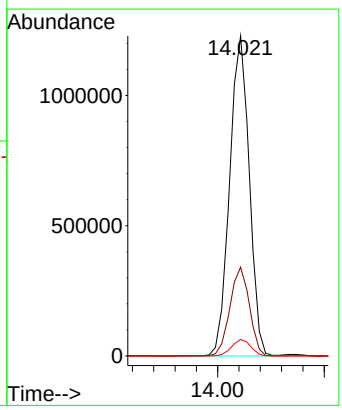


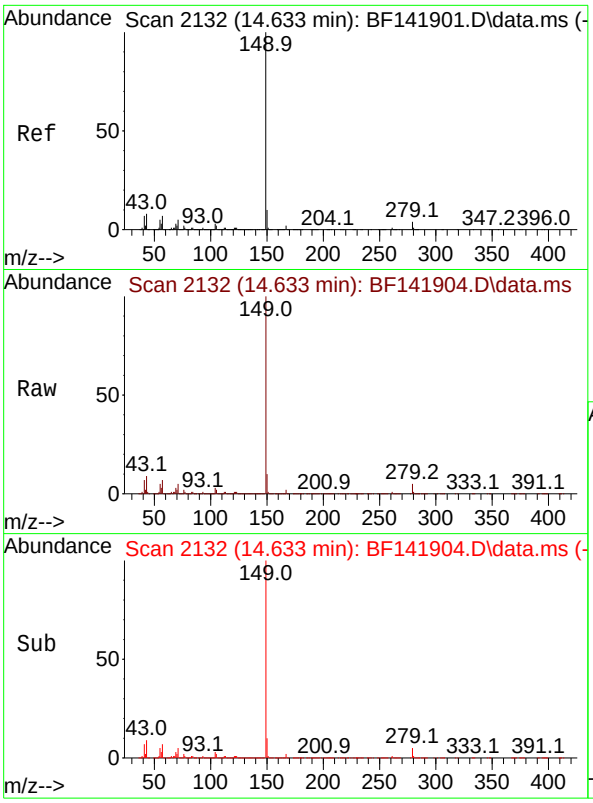


#84
Bis(2-ethylhexyl)phthalate
Concen: 79.962 ng
RT: 14.021 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:149 Resp: 1573231

Ion	Ratio	Lower	Upper
149	100		
167	27.7	21.4	32.0
279	5.2	3.8	5.6



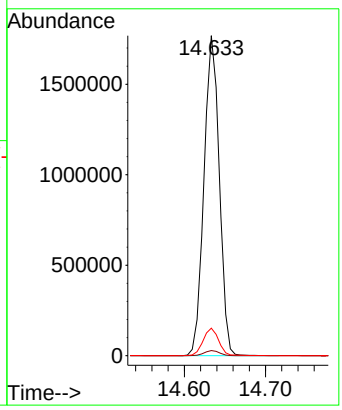


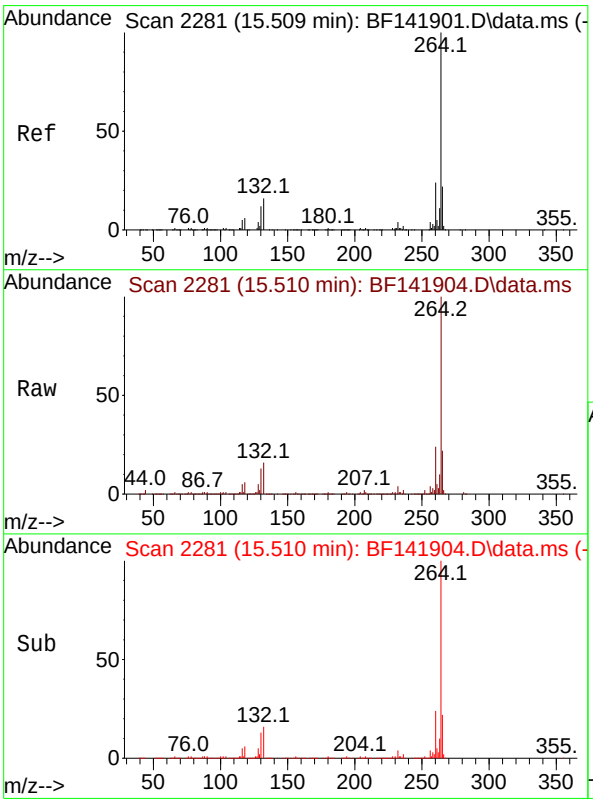
#85
Di-n-octyl phthalate
Concen: 84.386 ng
RT: 14.633 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 2310836

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.7	6.9	10.3

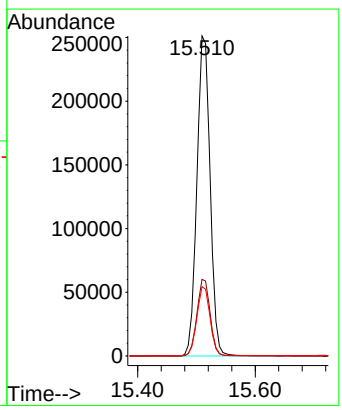


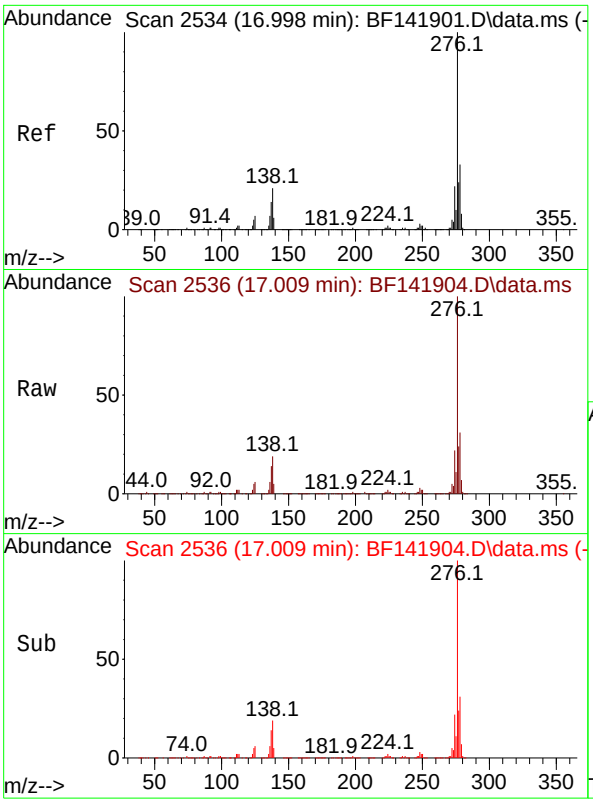


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. 0.000 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:264 Resp: 391768

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	21.7	17.5	26.3



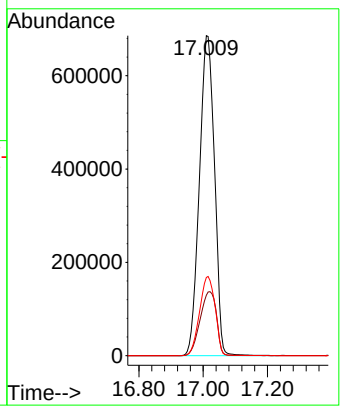


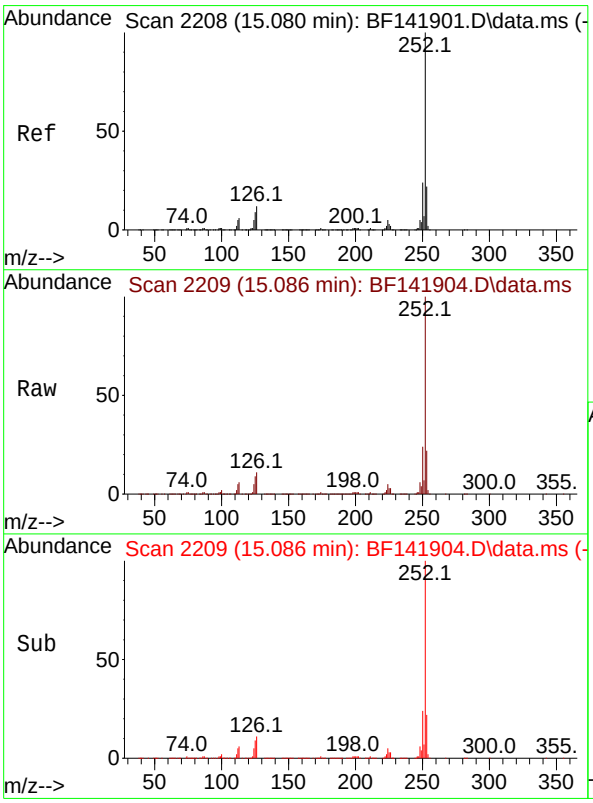
#87
Indeno(1,2,3-cd)pyrene
Concen: 88.111 ng
RT: 17.009 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 2238588

Ion	Ratio	Lower	Upper
276	100		
138	21.6	18.4	27.6
277	25.5	20.3	30.5

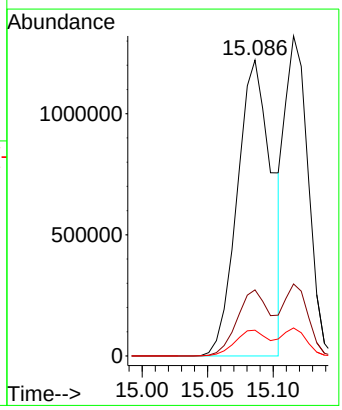


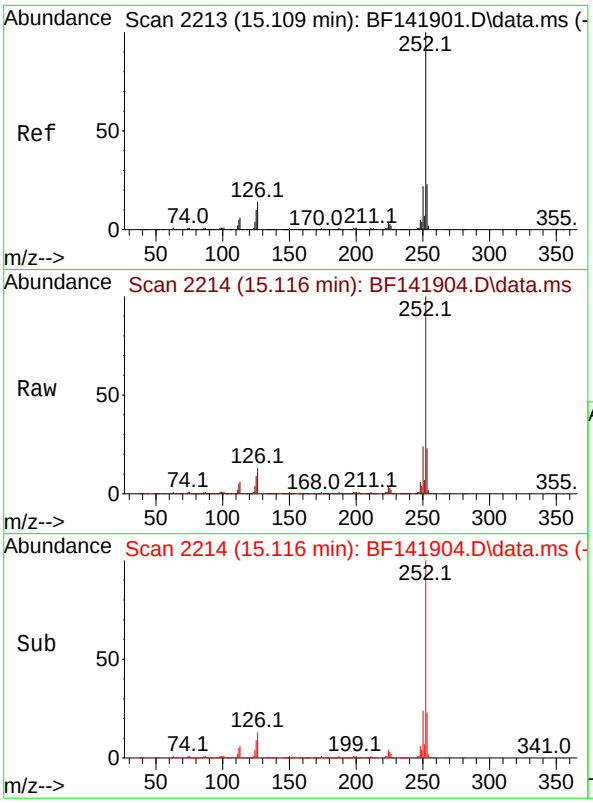


#88
Benzo(b)fluoranthene
Concen: 84.536 ng
RT: 15.086 min Scan# 2209
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:252 Resp: 2246428

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	8.7	7.0	10.4



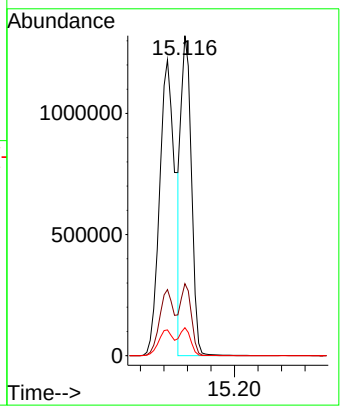


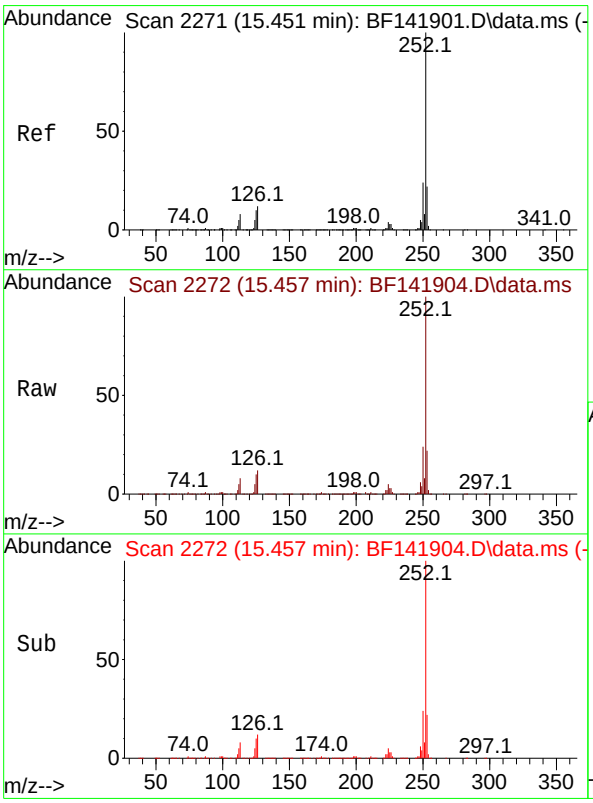
#89
Benzo(k)fluoranthene
Concen: 70.292 ng
RT: 15.116 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 1631675

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	8.8	7.2	10.8

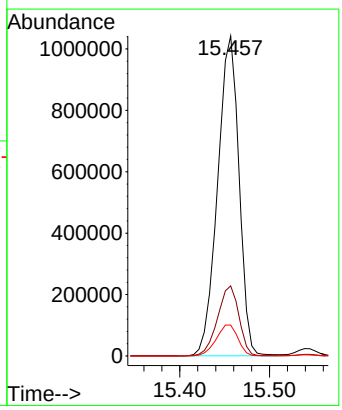


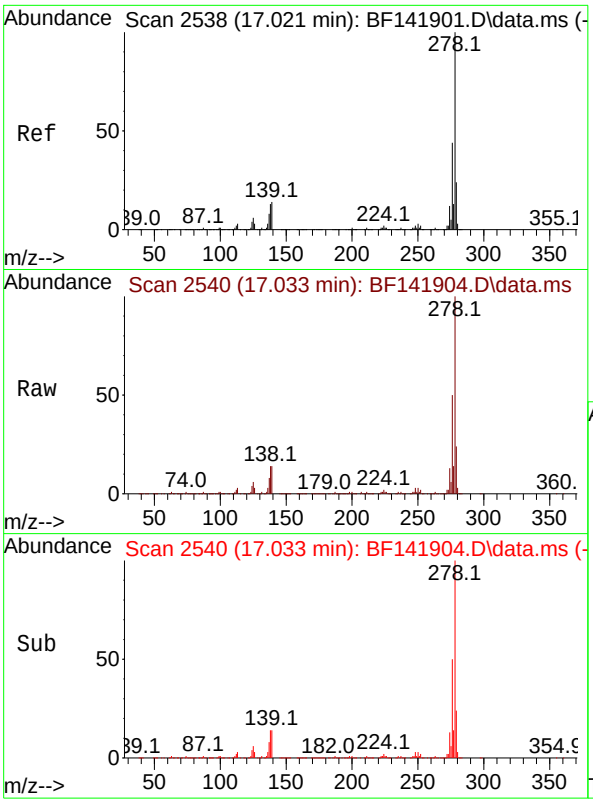


#90
Benzo(a)pyrene
Concen: 82.339 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:252 Resp: 1725632

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	9.7	7.8	11.8



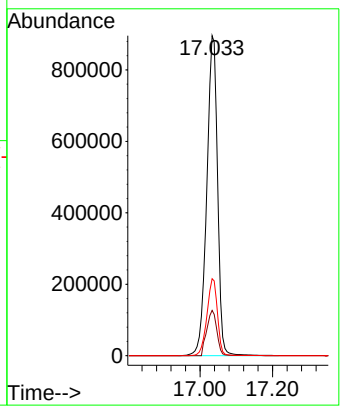


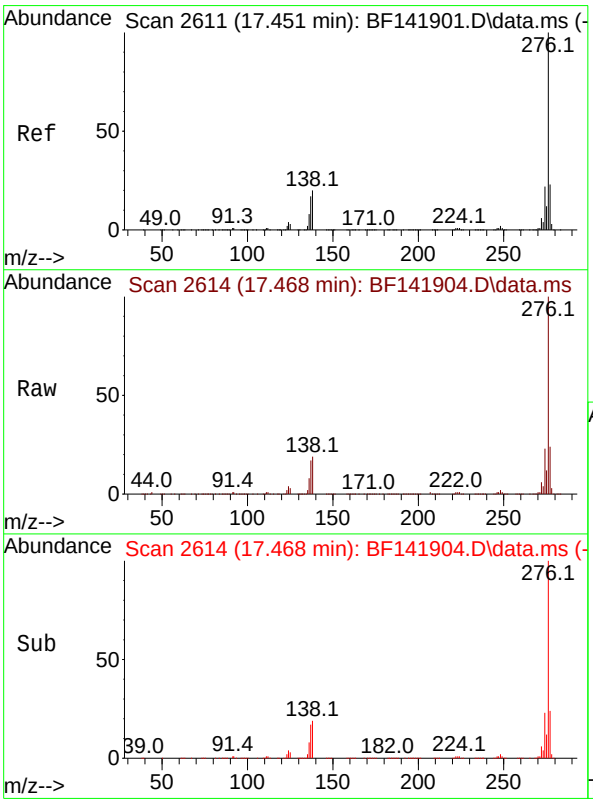
#91
Dibenzo(a,h)anthracene
Concen: 88.098 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:278 Resp: 1846778

Ion	Ratio	Lower	Upper
278	100		
139	14.1	11.4	17.2
279	24.1	18.8	28.2

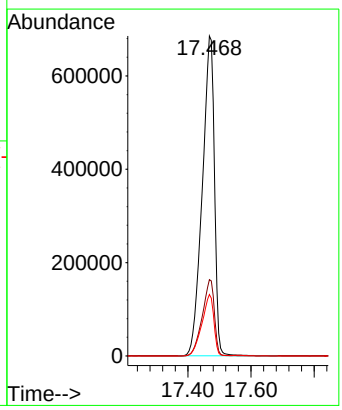




#92
Benzo(g,h,i)perylene
Concen: 87.950 ng
RT: 17.468 min Scan# 2614
Delta R.T. 0.018 min
Lab File: BF141904.D
Acq: 10 Mar 2025 14:27

Tgt Ion:276 Resp: 1828662

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.7	28.1
138	19.2	15.8	23.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141988.D
Acq On : 18 Mar 2025 10:59
Operator : RC/JU
Sample : PB167168BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Quant Time: Mar 18 11:46:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	153624	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	605121	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	333256	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	550204	20.000	ng		0.00
76) Chrysene-d12	14.045	240	364178	20.000	ng		0.00
86) Perylene-d12	15.515	264	375705	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	1289349	140.074	ng		0.02
7) Phenol-d6	6.510	99	1576383	134.507	ng		0.00
23) Nitrobenzene-d5	7.445	82	1043365	97.032	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	634270	150.024	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	2139796	97.649	ng		0.00
79) Terphenyl-d14	12.986	244	2369251	96.185	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.751	88	160315	41.567	ng		97
3) Pyridine	3.510	79	378424	40.000	ng		98
4) n-Nitrosodimethylamine	3.457	42	191144	42.385	ng		98
6) Aniline	6.545	93	467295	40.418	ng		99
8) 2-Chlorophenol	6.663	128	473450	46.377	ng		99
9) Benzaldehyde	6.428	77	131199	20.017	ng		99
10) Phenol	6.522	94	547930	44.441	ng		97
11) bis(2-Chloroethyl)ether	6.616	93	410827	44.375	ng		99
12) 1,3-Dichlorobenzene	6.822	146	496621	45.059	ng		98
13) 1,4-Dichlorobenzene	6.898	146	507150	45.478	ng		99
14) 1,2-Dichlorobenzene	7.051	146	484885	46.164	ng		98
15) Benzyl Alcohol	7.022	79	412918	43.581	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	462263	41.359	ng		98
17) 2-Methylphenol	7.128	107	371351	45.750	ng		100
18) Hexachloroethane	7.392	117	186696	44.646	ng		96
19) n-Nitroso-di-n-propyla...	7.292	70	315123	41.846	ng		100
20) 3+4-Methylphenols	7.281	107	464568	44.683	ng	#	90
22) Acetophenone	7.286	105	703789	48.567	ng		96
24) Nitrobenzene	7.463	77	476326	44.560	ng		99
25) Isophorone	7.698	82	861775	45.339	ng		99
26) 2-Nitrophenol	7.775	139	250549	47.756	ng		99
27) 2,4-Dimethylphenol	7.810	122	398959	55.226	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	517502	43.409	ng		99
29) 2,4-Dichlorophenol	8.016	162	403105	44.955	ng		100
30) 1,2,4-Trichlorobenzene	8.104	180	442720	44.802	ng		98
31) Naphthalene	8.186	128	1349583	43.417	ng		100
32) Benzoic acid	7.928	122	318732	50.192	ng		98
33) 4-Chloroaniline	8.228	127	225971	20.593	ng		98
34) Hexachlorobutadiene	8.298	225	297040	46.093	ng		99
35) Caprolactam	8.598	113	87663	32.067	ng		92
36) 4-Chloro-3-methylphenol	8.710	107	431630	43.152	ng		99
37) 2-Methylnaphthalene	8.875	142	876224	42.173	ng		100
38) 1-Methylnaphthalene	8.975	142	843623	42.077	ng		100
40) 1,2,4,5-Tetrachloroben...	9.039	216	524826	51.726	ng		98
41) Hexachlorocyclopentadiene	9.028	237	668256	168.290	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	301417	45.456	ng		100

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141988.D
Acq On : 18 Mar 2025 10:59
Operator : RC/JU
Sample : PB167168BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Quant Time: Mar 18 11:46:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

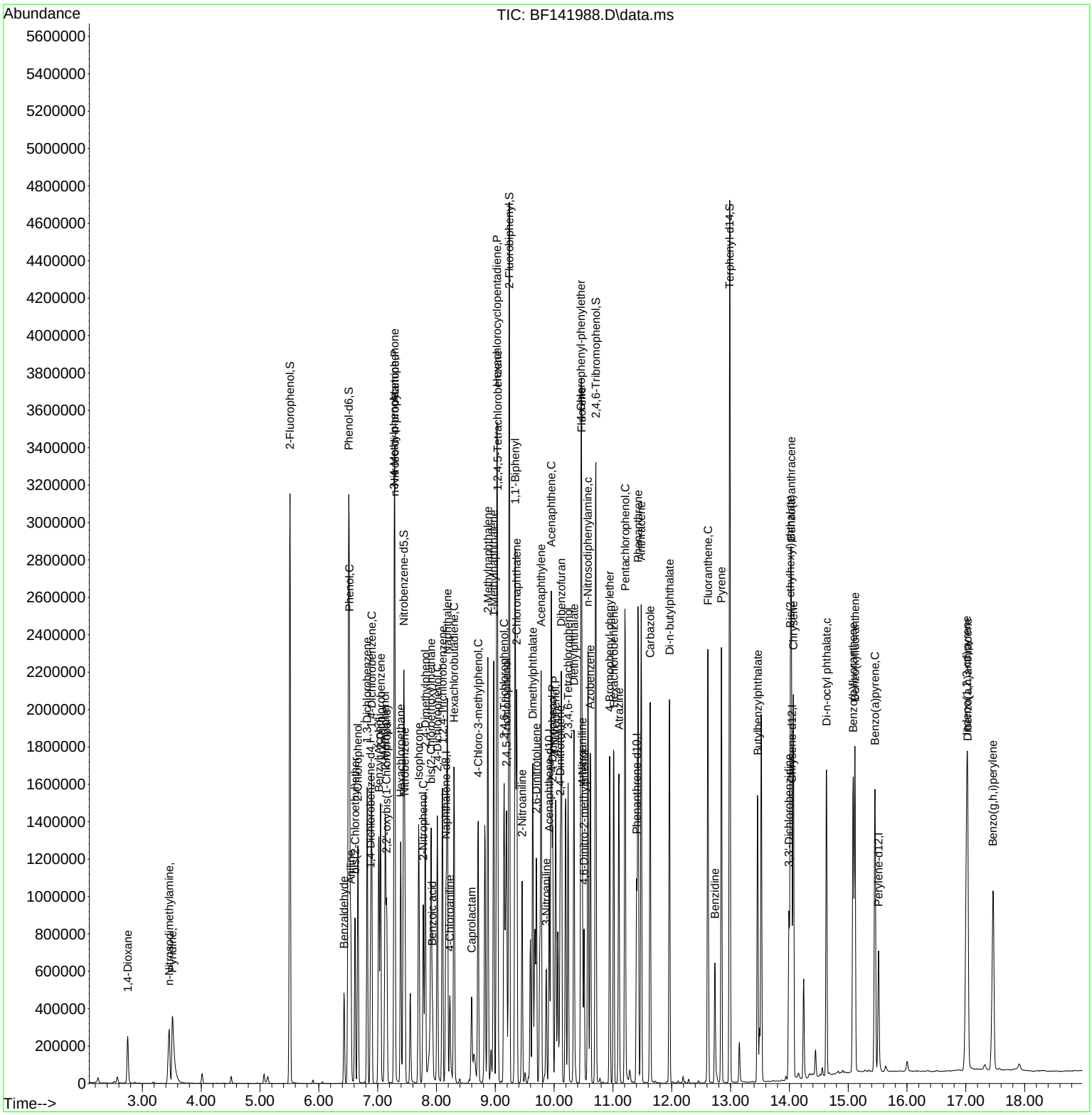
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	314799	46.874	ng		99
46) 1,1'-Biphenyl	9.339	154	1251387	49.420	ng		100
47) 2-Chloronaphthalene	9.363	162	859555	45.544	ng		99
48) 2-Nitroaniline	9.457	65	243726	44.601	ng		97
49) Acenaphthylene	9.780	152	1335434	47.682	ng		100
50) Dimethylphthalate	9.639	163	1015664	43.521	ng		100
51) 2,6-Dinitrotoluene	9.698	165	221617	45.610	ng		95
52) Acenaphthene	9.951	154	991021	50.351	ng		99
53) 3-Nitroaniline	9.869	138	137483	27.894	ng		97
54) 2,4-Dinitrophenol	9.975	184	261502	93.511	ng	#	47
55) Dibenzofuran	10.122	168	1217099	43.277	ng		99
56) 4-Nitrophenol	10.027	139	367609	98.900	ng		96
57) 2,4-Dinitrotoluene	10.104	165	301837	47.561	ng		98
58) Fluorene	10.469	166	954715	44.021	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	278073	45.502	ng		98
60) Diethylphthalate	10.339	149	990323	42.558	ng		99
61) 4-Chlorophenyl-phenyle...	10.457	204	494016	43.691	ng		98
62) 4-Nitroaniline	10.480	138	209808	43.724	ng		98
63) Azobenzene	10.616	77	894901	41.365	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	162385	49.508	ng		100
66) n-Nitrosodiphenylamine	10.575	169	827044	46.450	ng		100
67) 4-Bromophenyl-phenylether	10.945	248	317766	45.987	ng		100
68) Hexachlorobenzene	11.016	284	366094	48.306	ng		94
69) Atrazine	11.104	200	322158	59.022	ng		99
70) Pentachlorophenol	11.210	266	435894	93.351	ng		99
71) Phenanthrene	11.427	178	1374452	46.249	ng		100
72) Anthracene	11.480	178	1412854	47.387	ng		100
73) Carbazole	11.633	167	1155342	44.932	ng		100
74) Di-n-butylphthalate	11.963	149	1479834	43.374	ng		99
75) Fluoranthene	12.616	202	1339128	42.479	ng		99
77) Benzidine	12.733	184	367890	72.405	ng		99
78) Pyrene	12.845	202	1330654	42.241	ng		99
80) Butylbenzylphthalate	13.463	149	514197	41.703	ng		97
81) Benzo(a)anthracene	14.033	228	1117238	46.751	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	265251	38.409	ng		99
83) Chrysene	14.068	228	998209	46.080	ng		100
84) Bis(2-ethylhexyl)phtha...	14.015	149	728315	42.841	ng		100
85) Di-n-octyl phthalate	14.633	149	1189008	50.266	ng		98
87) Indeno(1,2,3-cd)pyrene	17.015	276	1215297	50.004	ng		98
88) Benzo(b)fluoranthene	15.086	252	1022729	39.719	ng		99
89) Benzo(k)fluoranthene	15.115	252	1001088	45.431	ng		99
90) Benzo(a)pyrene	15.457	252	970694	48.179	ng		99
91) Dibenzo(a,h)anthracene	17.033	278	988318	49.287	ng		99
92) Benzo(g,h,i)perylene	17.462	276	923868	46.622	ng		98

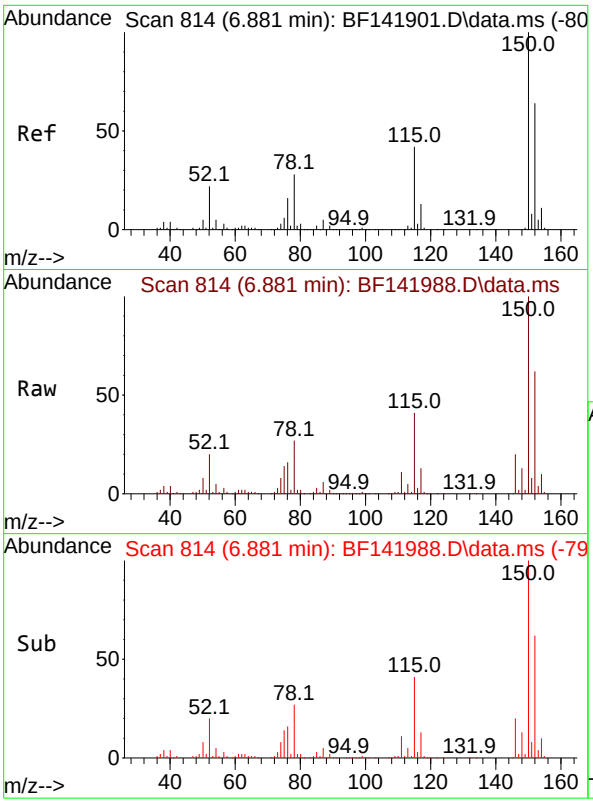
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141988.D
Acq On : 18 Mar 2025 10:59
Operator : RC/JU
Sample : PB167168BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Quant Time: Mar 18 11:46:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration



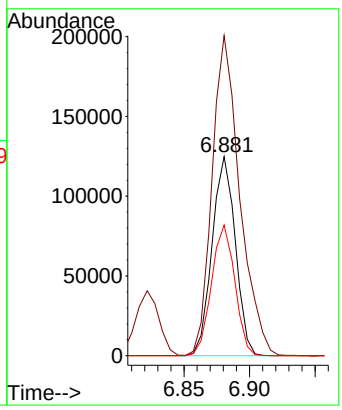


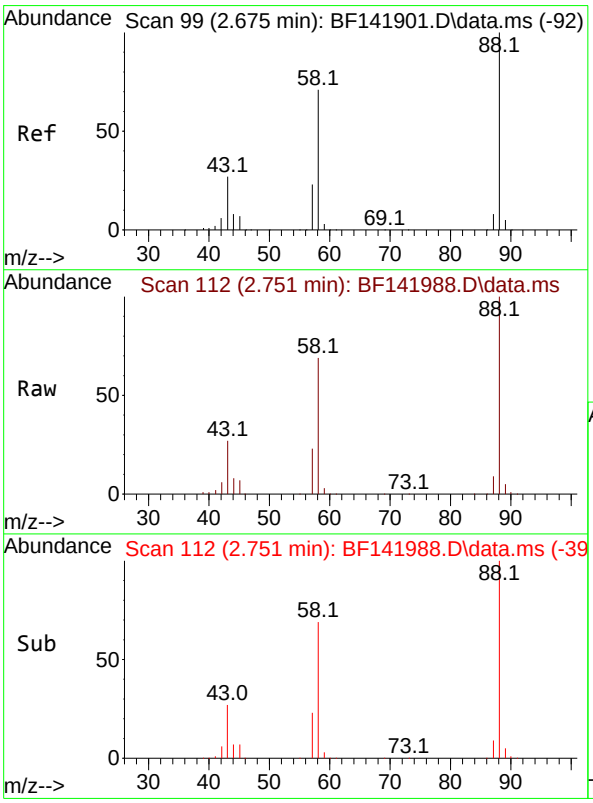
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:152 Resp: 153624

Ion	Ratio	Lower	Upper
152	100		
150	160.7	127.4	191.2
115	65.6	51.9	77.9

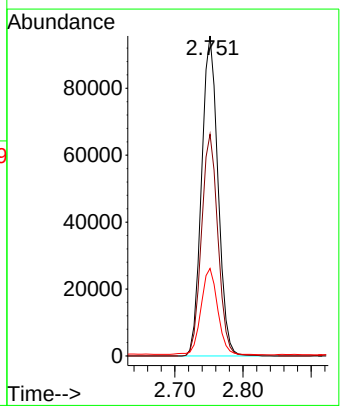


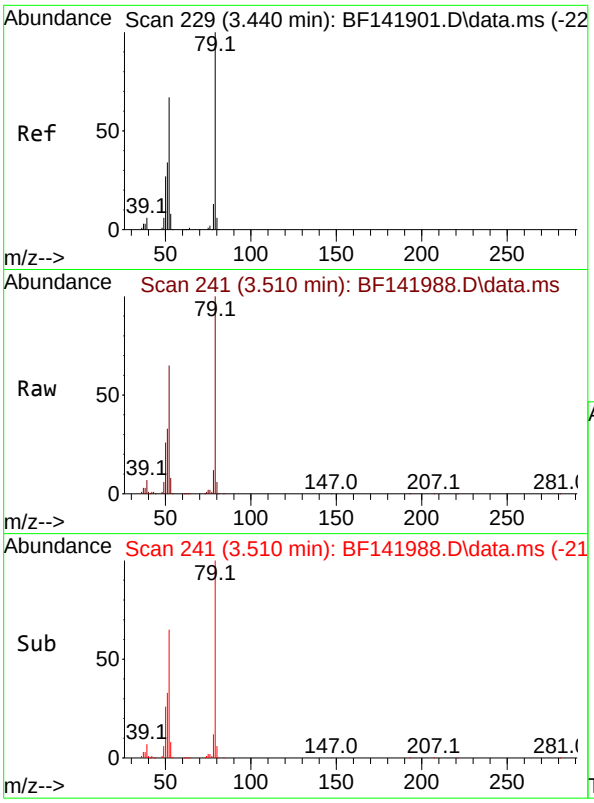


#2
1,4-Dioxane
Concen: 41.567 ng
RT: 2.751 min Scan# 112
Delta R.T. 0.076 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 88 Resp: 160315

Ion	Ratio	Lower	Upper
88	100		
58	69.3	57.4	86.2
43	27.7	21.5	32.3



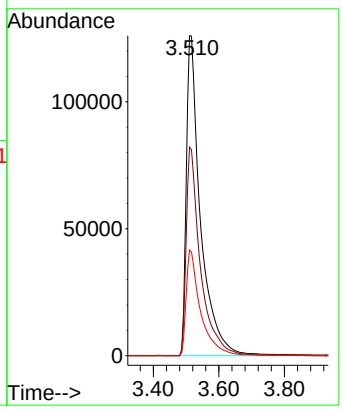


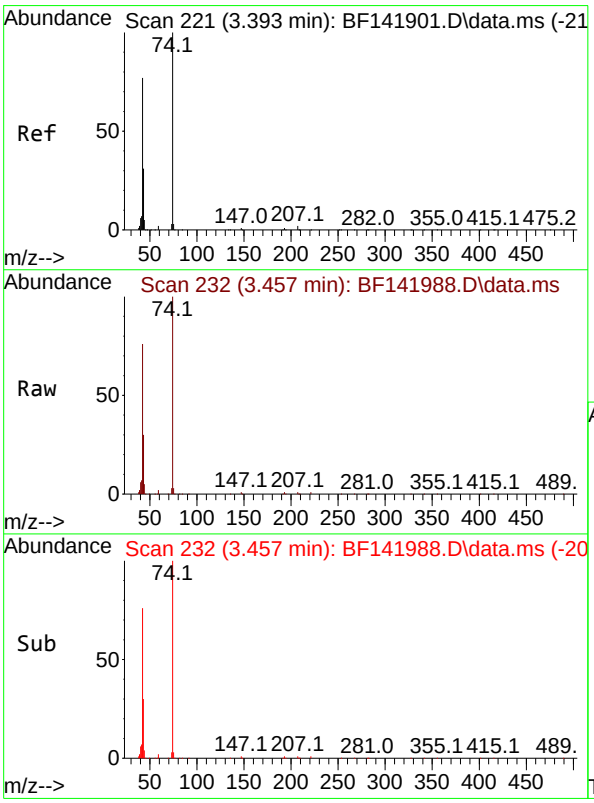
#3
Pyridine
Concen: 40.000 ng
RT: 3.510 min Scan# 24
Delta R.T. 0.071 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion: 79 Resp: 378424

Ion	Ratio	Lower	Upper
79	100		
52	65.2	53.3	79.9
51	33.0	27.6	41.4

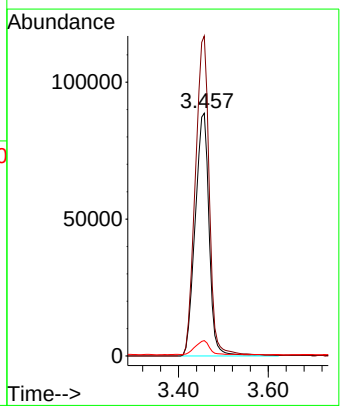


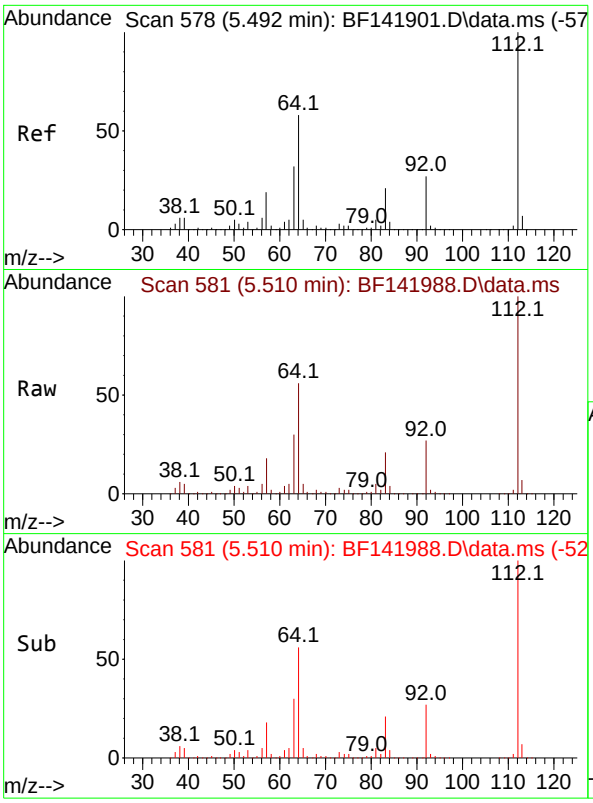


#4
n-Nitrosodimethylamine
Concen: 42.385 ng
RT: 3.457 min Scan# 232
Delta R.T. 0.065 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 42 Resp: 191144

Ion	Ratio	Lower	Upper
42	100		
74	131.8	103.4	155.0
44	6.3	5.0	7.4



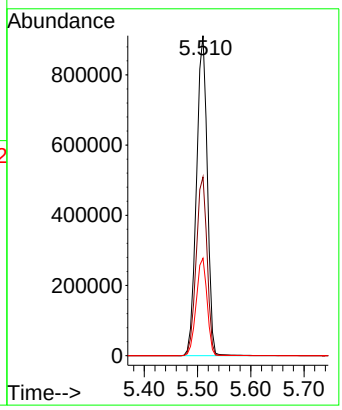


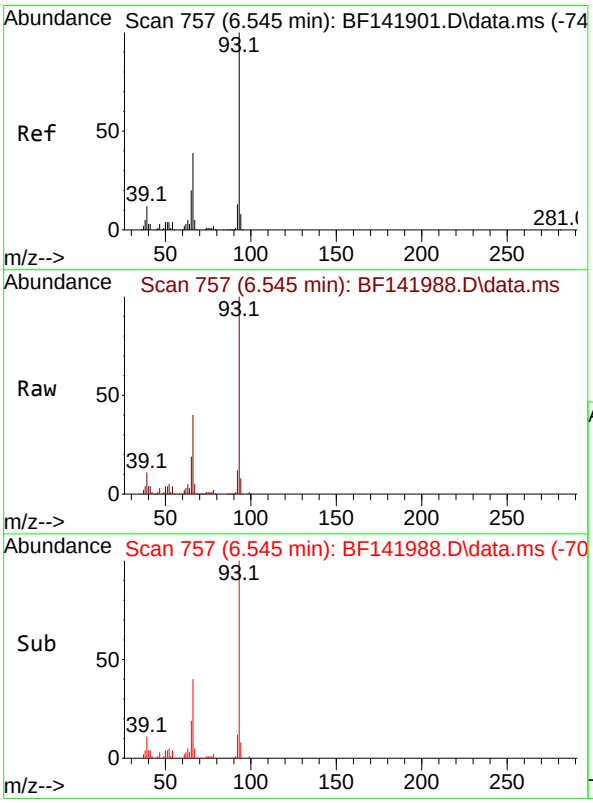
#5
2-Fluorophenol
Concen: 140.074 ng
RT: 5.510 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:112 Resp: 1289349

Ion	Ratio	Lower	Upper
112	100		
64	55.8	46.5	69.7
63	30.5	25.4	38.2

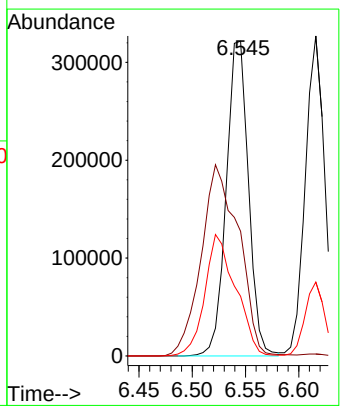


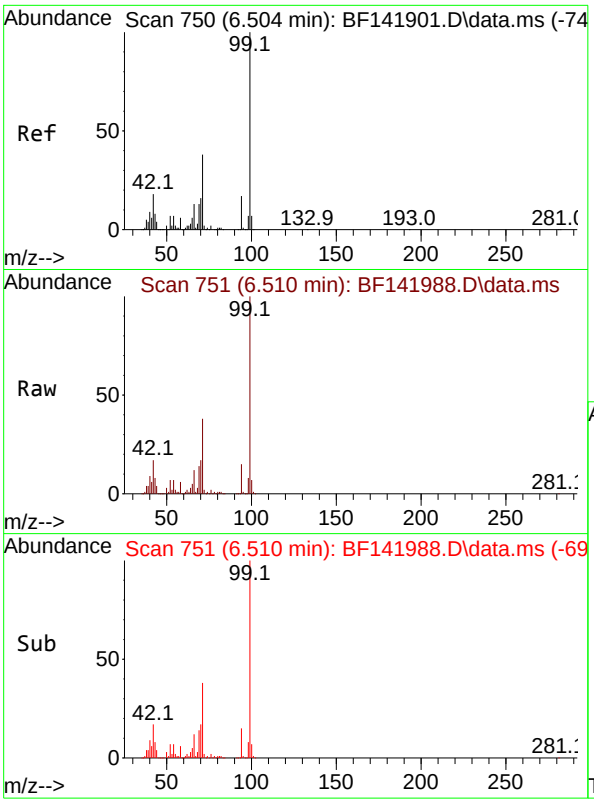


#6
Aniline
Concen: 40.418 ng
RT: 6.545 min Scan# 757
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 93 Resp: 467295

Ion	Ratio	Lower	Upper
93	100		
66	39.6	31.9	47.9
65	19.0	15.8	23.6



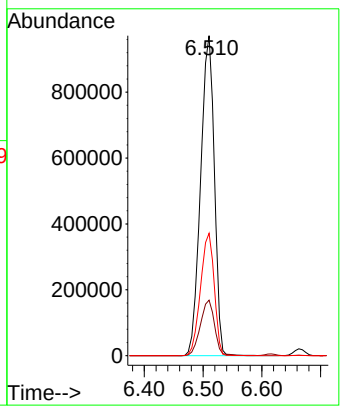


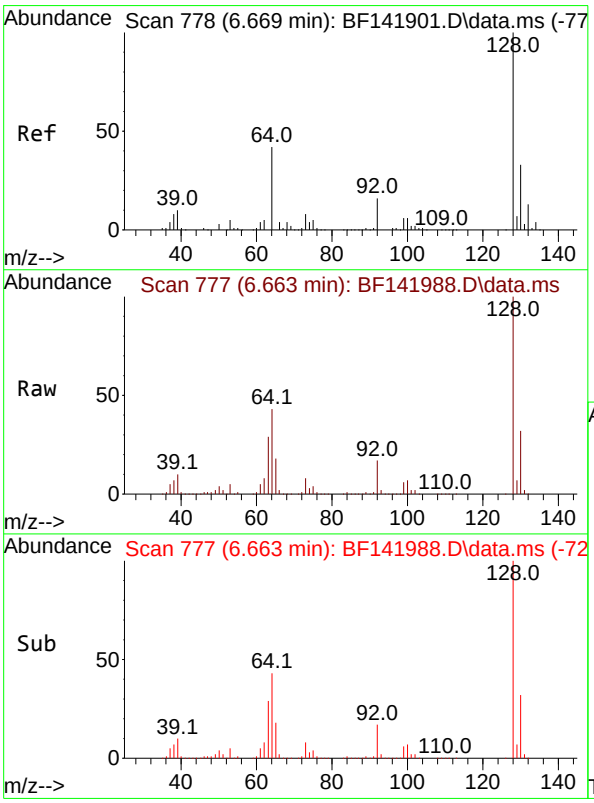
#7
Phenol-d6
Concen: 134.507 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion: 99 Resp: 1576383

Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.6	21.8
71	38.3	30.8	46.2

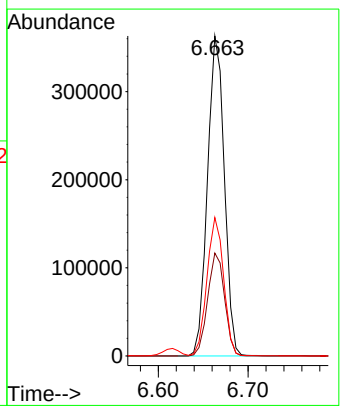


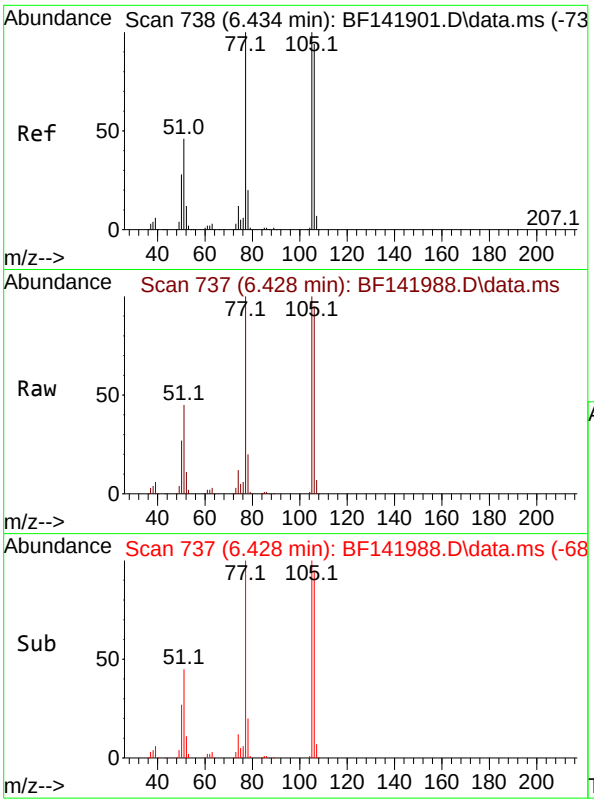


#8
2-Chlorophenol
Concen: 46.377 ng
RT: 6.663 min Scan# 777
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:128 Resp: 473450

Ion	Ratio	Lower	Upper
128	100		
130	32.1	12.8	52.8
64	43.3	24.4	64.4



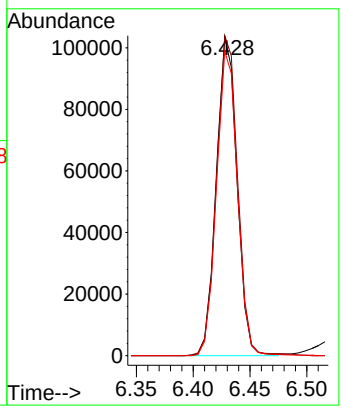


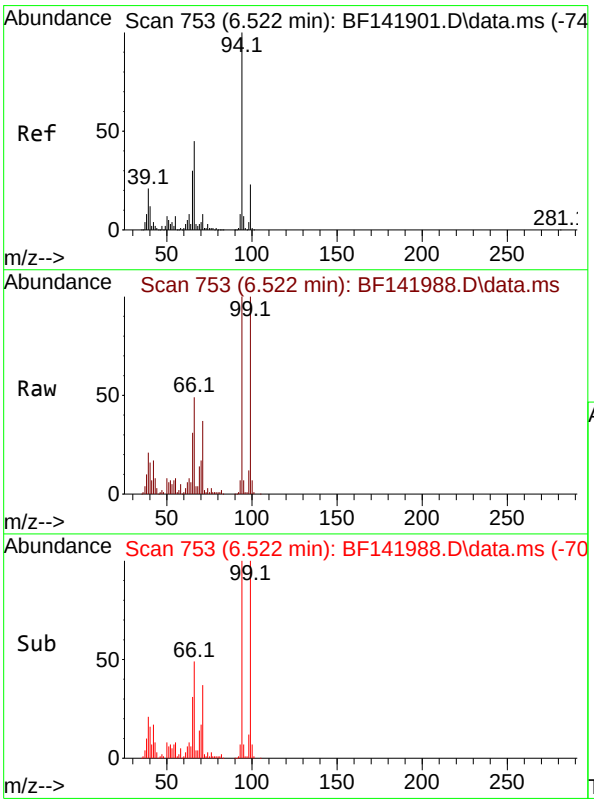
#9
Benzaldehyde
Concen: 20.017 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion: 77 Resp: 131199

Ion	Ratio	Lower	Upper
77	100		
105	100.5	80.0	120.0
106	95.6	74.5	114.5

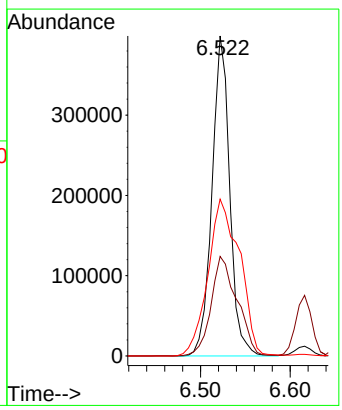


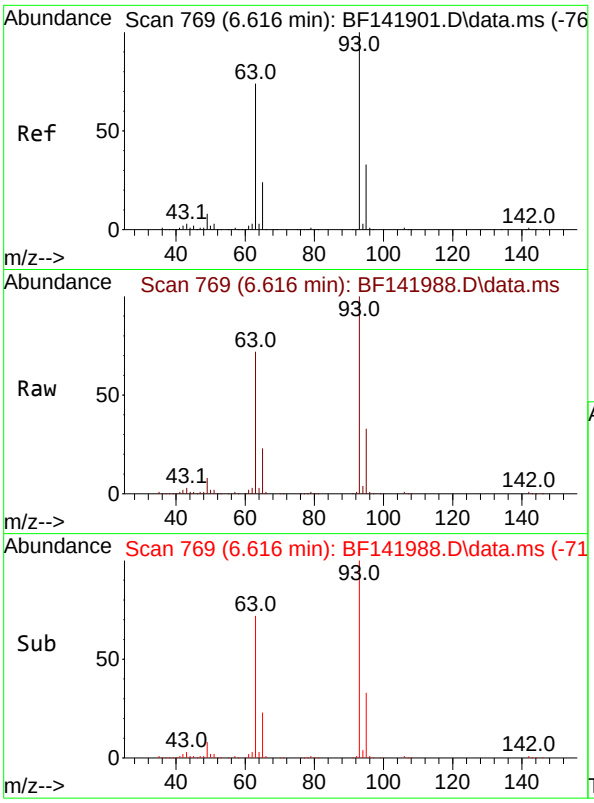


#10
Phenol
Concen: 44.441 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 94 Resp: 547930

Ion	Ratio	Lower	Upper
94	100		
65	31.1	10.5	50.5
66	49.0	25.8	65.8



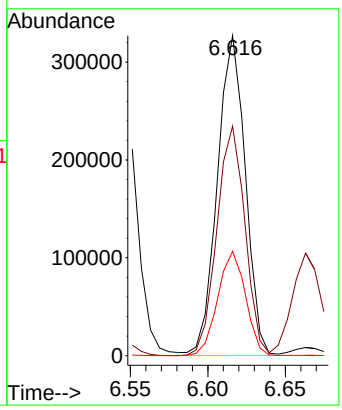


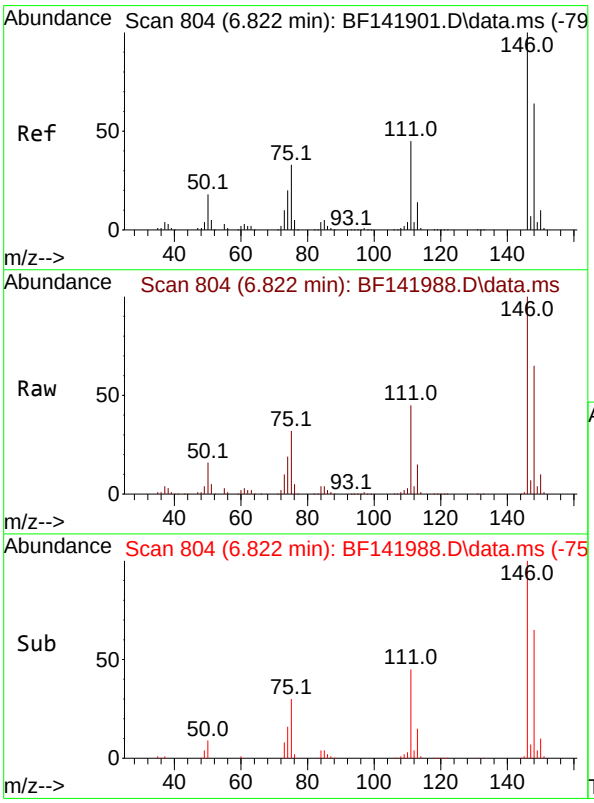
#11
bis(2-Chloroethyl)ether
Concen: 44.375 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion: 93 Resp: 410827

Ion	Ratio	Lower	Upper
93	100		
63	71.8	53.0	93.0
95	32.6	12.9	52.9

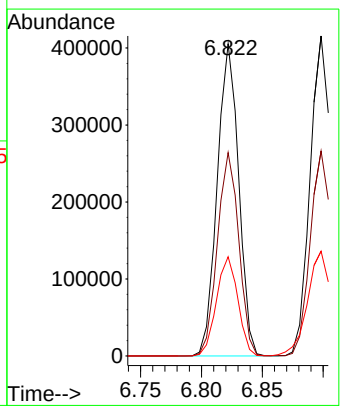


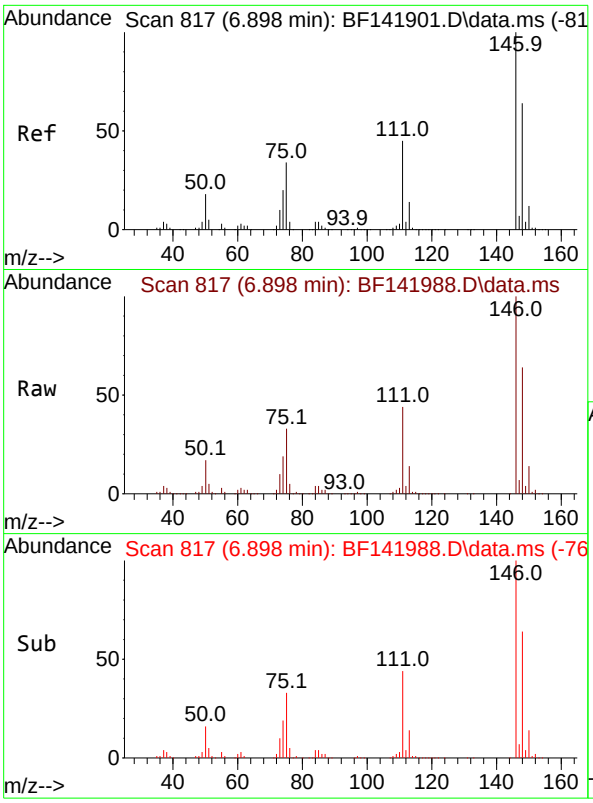


#12
1,3-Dichlorobenzene
Concen: 45.059 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:146 Resp: 496621

Ion	Ratio	Lower	Upper
146	100		
148	65.1	51.3	76.9
75	31.8	26.6	40.0



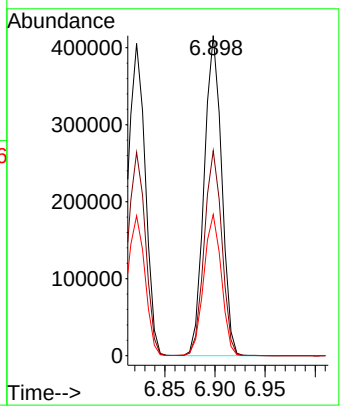


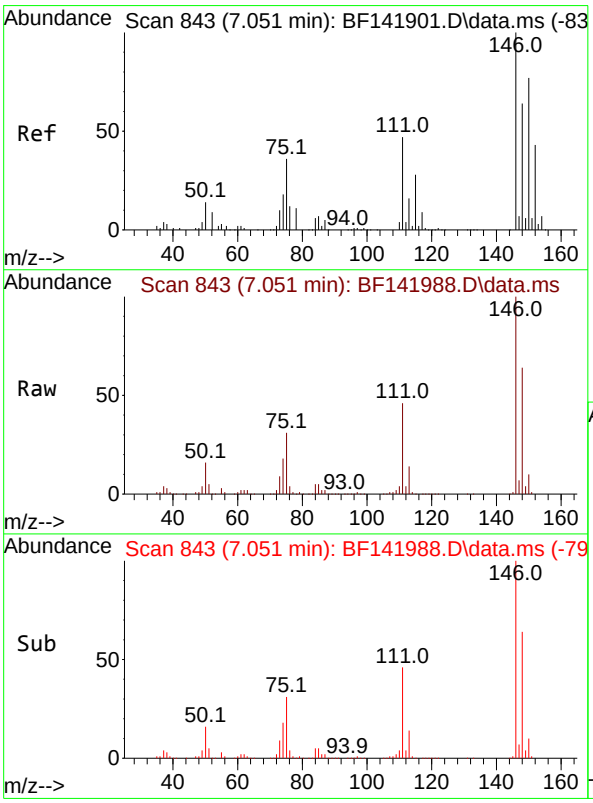
#13
1,4-Dichlorobenzene
Concen: 45.478 ng
RT: 6.898 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:146 Resp: 507150

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.0	76.6
111	44.1	35.7	53.5

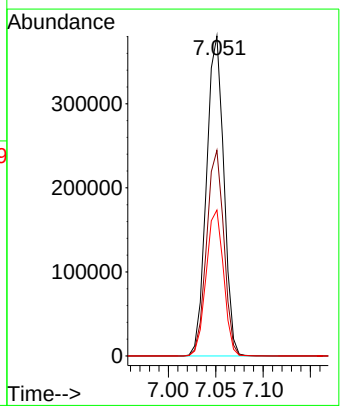


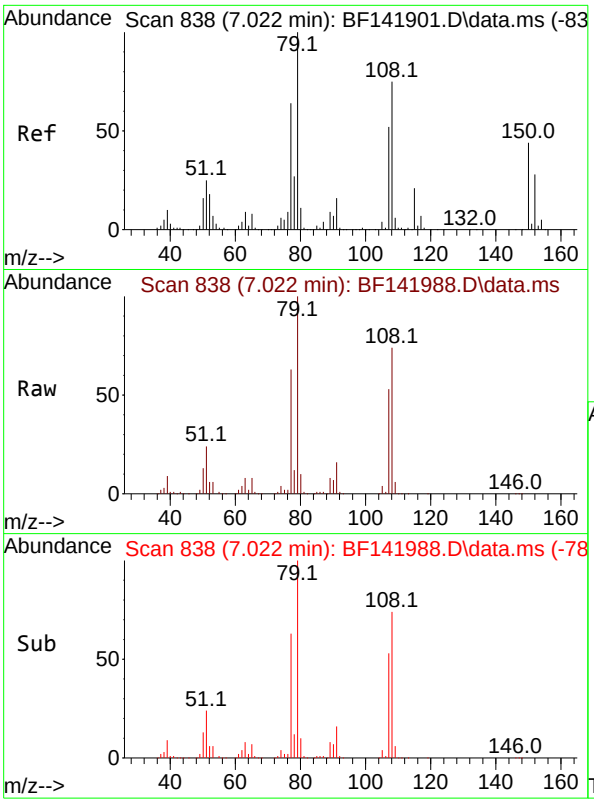


#14
1,2-Dichlorobenzene
Concen: 46.164 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:146 Resp: 484885

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.8	76.2
111	45.6	38.0	57.0



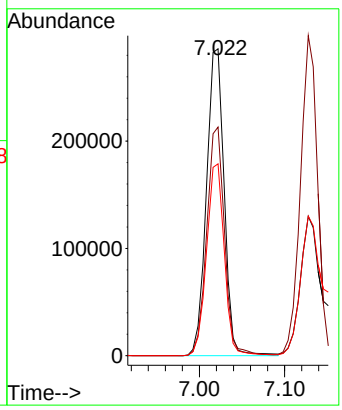


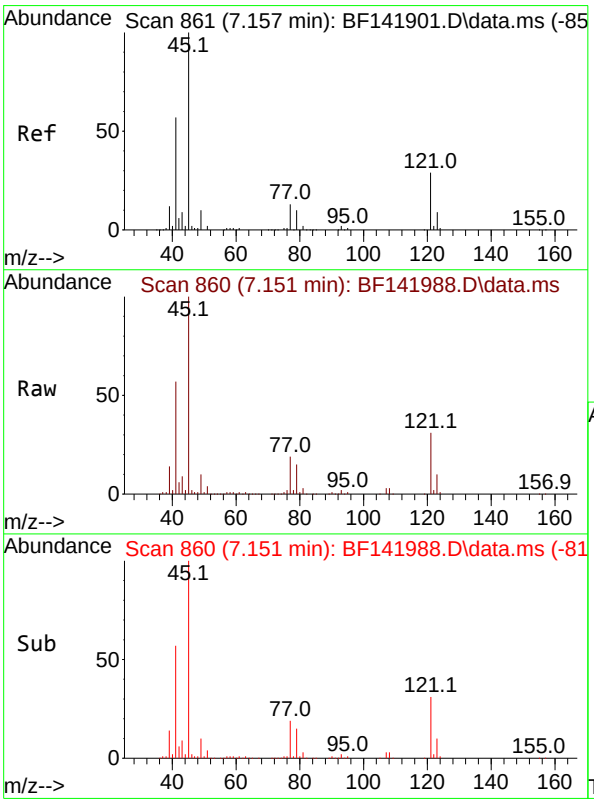
#15
Benzyl Alcohol
Concen: 43.581 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion: 79 Resp: 412918

Ion	Ratio	Lower	Upper
79	100		
108	74.5	59.7	89.5
77	62.5	51.0	76.6

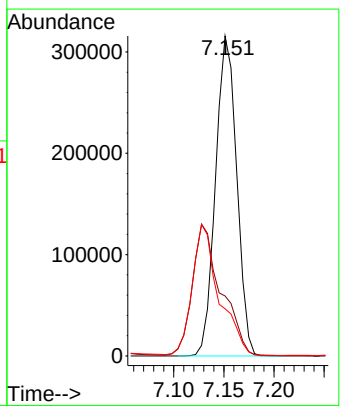


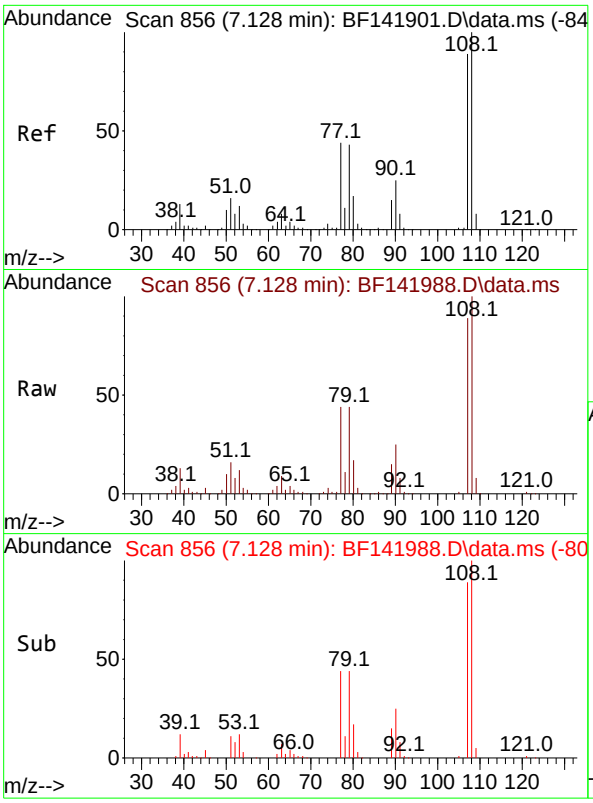


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.359 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 45 Resp: 462263

Ion	Ratio	Lower	Upper
45	100		
77	18.8	0.0	37.8
79	14.8	0.0	34.2



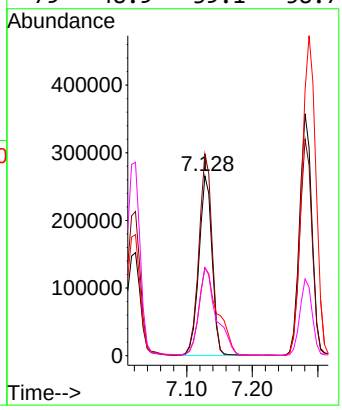


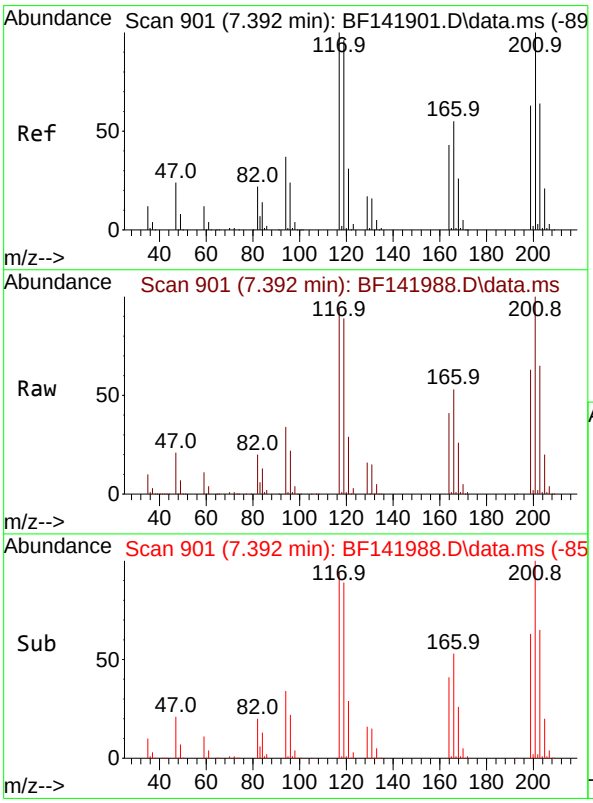
#17
2-Methylphenol
Concen: 45.750 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:107 Resp: 371351

Ion	Ratio	Lower	Upper
107	100		
108	112.3	90.2	135.2
77	48.9	39.6	59.4
79	48.9	39.1	58.7

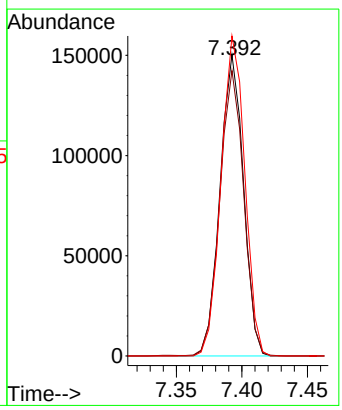


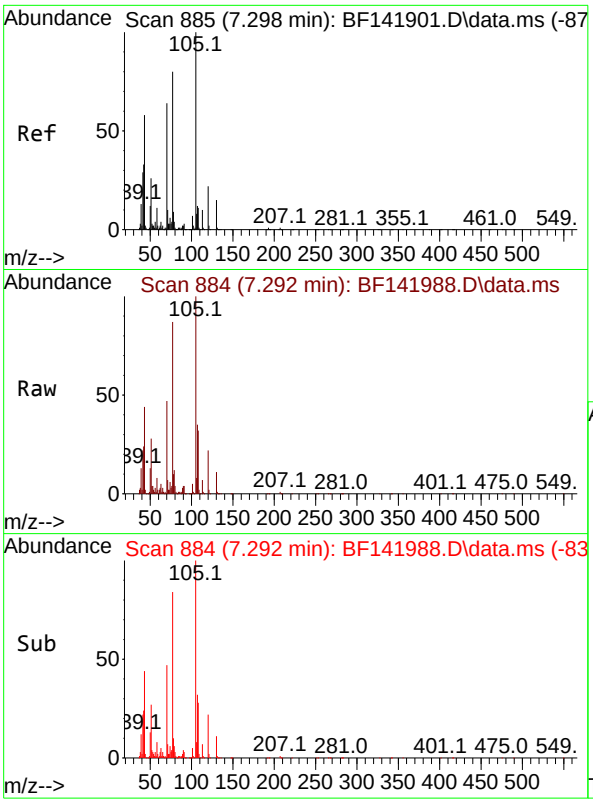


#18
Hexachloroethane
Concen: 44.646 ng
RT: 7.392 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:117 Resp: 186696

Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.9	115.3
201	106.3	79.9	119.9



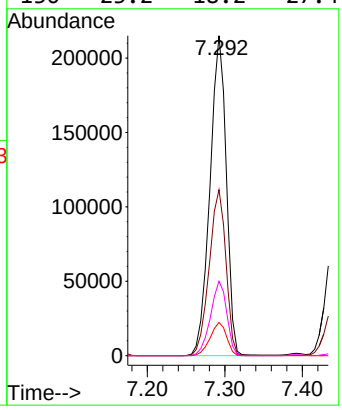


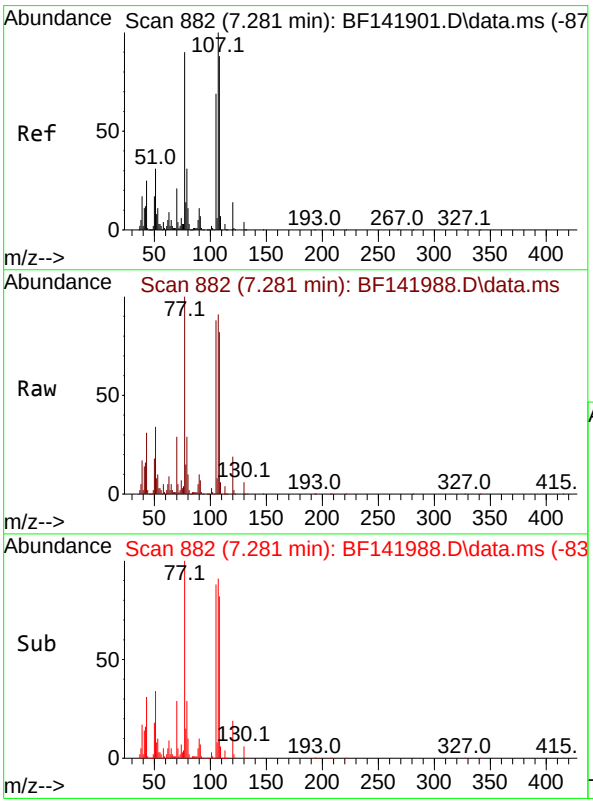
#19
n-Nitroso-di-n-propylamine
Concen: 41.846 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion: 70 Resp: 315123

Ion	Ratio	Lower	Upper
70	100		
42	51.9	41.4	62.0
101	10.4	8.2	12.2
130	23.2	18.2	27.4

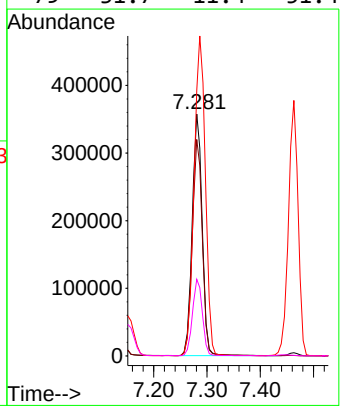


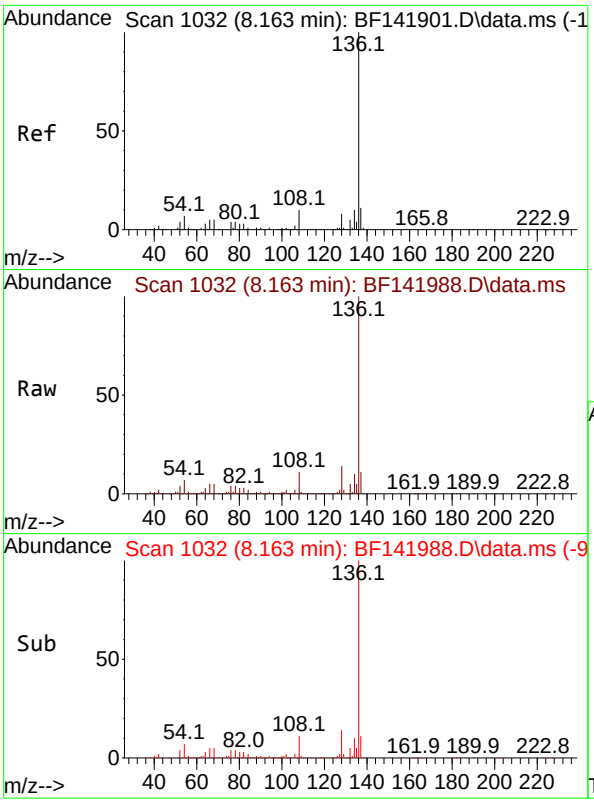


#20
3+4-Methylphenols
Concen: 44.683 ng
RT: 7.281 min Scan# 882
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:107 Resp: 464568

Ion	Ratio	Lower	Upper
107	100		
108	89.5	68.4	108.4
77	109.7	69.7	109.7#
79	31.7	11.4	51.4



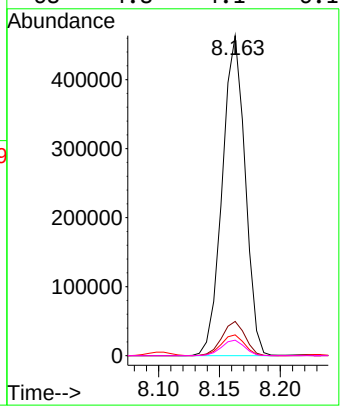


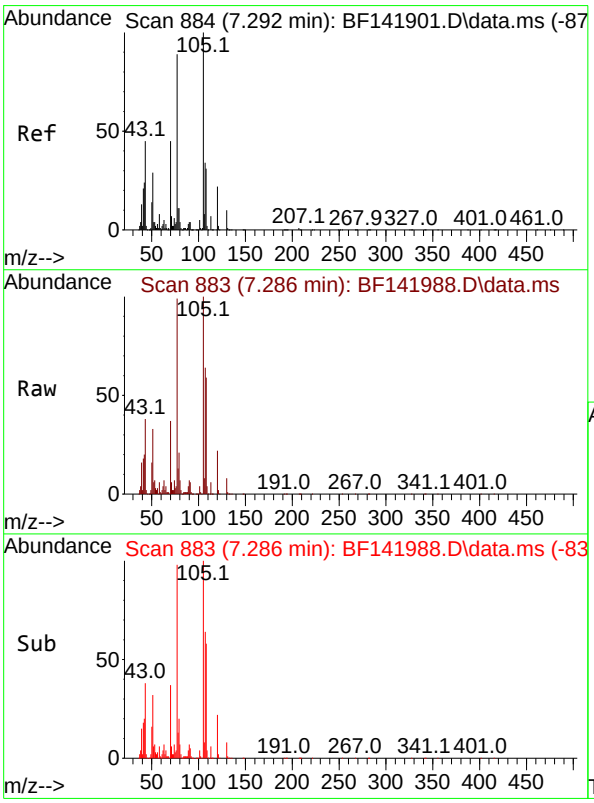
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:136 Resp: 605121

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	6.5	5.8	8.8
68	4.8	4.1	6.1

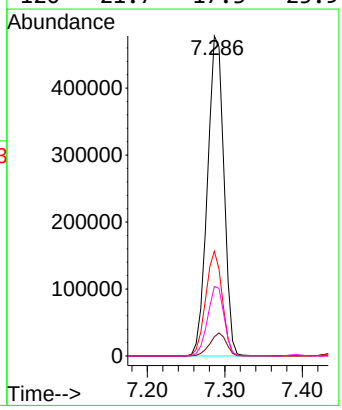


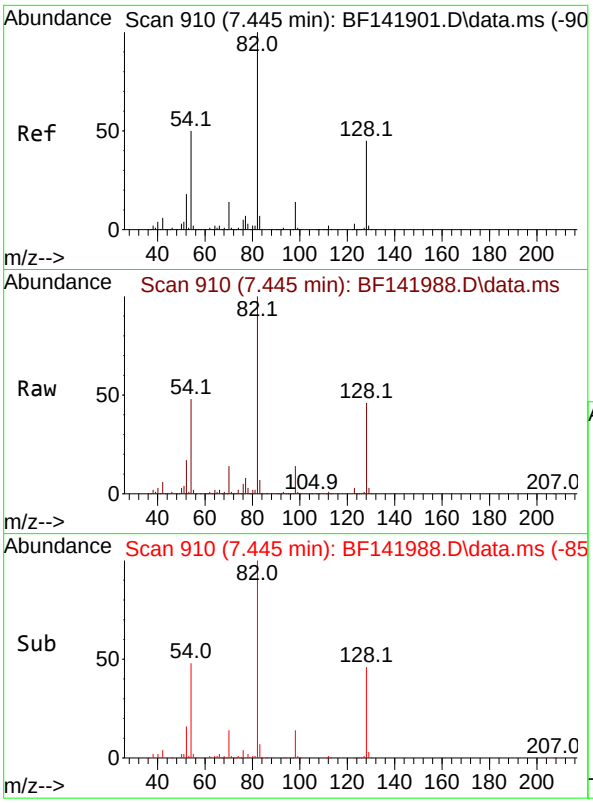


#22
Acetophenone
Concen: 48.567 ng
RT: 7.286 min Scan# 883
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:105 Resp: 703789

Ion	Ratio	Lower	Upper
105	100		
71	6.0	5.8	8.8
51	32.7	23.4	35.0
120	21.7	17.3	25.9



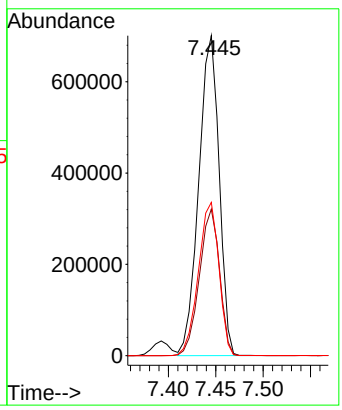


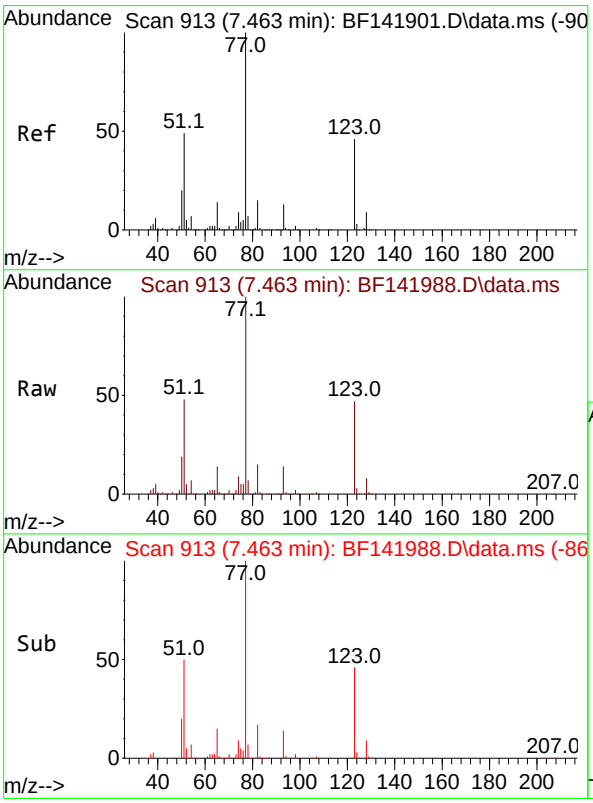
#23
Nitrobenzene-d5
Concen: 97.032 ng
RT: 7.445 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion: 82 Resp: 1043365

Ion	Ratio	Lower	Upper
82	100		
128	45.8	36.0	54.0
54	47.9	39.6	59.4

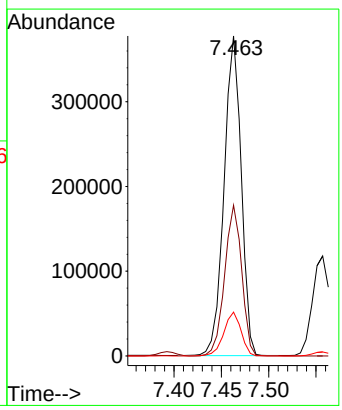


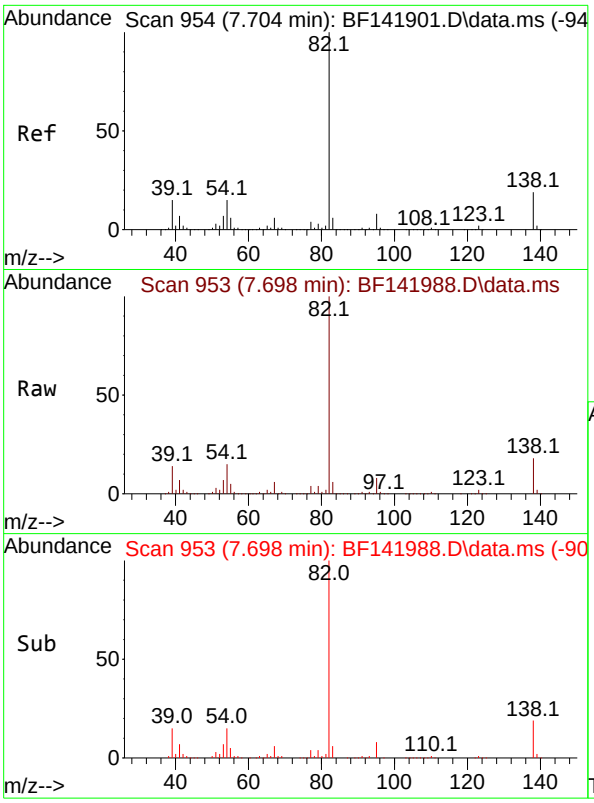


#24
Nitrobenzene
Concen: 44.560 ng
RT: 7.463 min Scan# 913
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 77 Resp: 476326

Ion	Ratio	Lower	Upper
77	100		
123	47.1	37.0	55.4
65	13.7	11.3	16.9



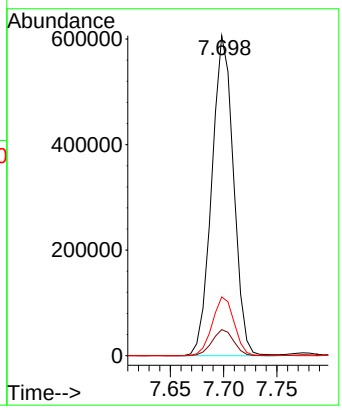


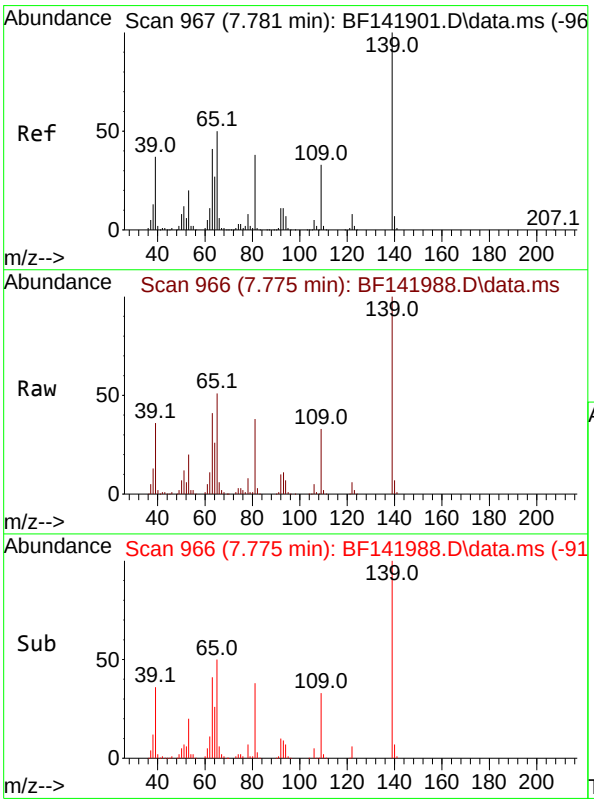
#25
Isophorone
Concen: 45.339 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion: 82 Resp: 861775

Ion	Ratio	Lower	Upper
82	100		
95	8.1	6.4	9.6
138	18.3	14.9	22.3

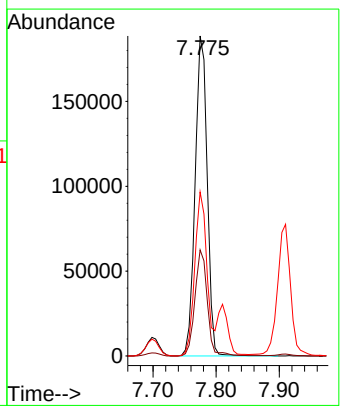


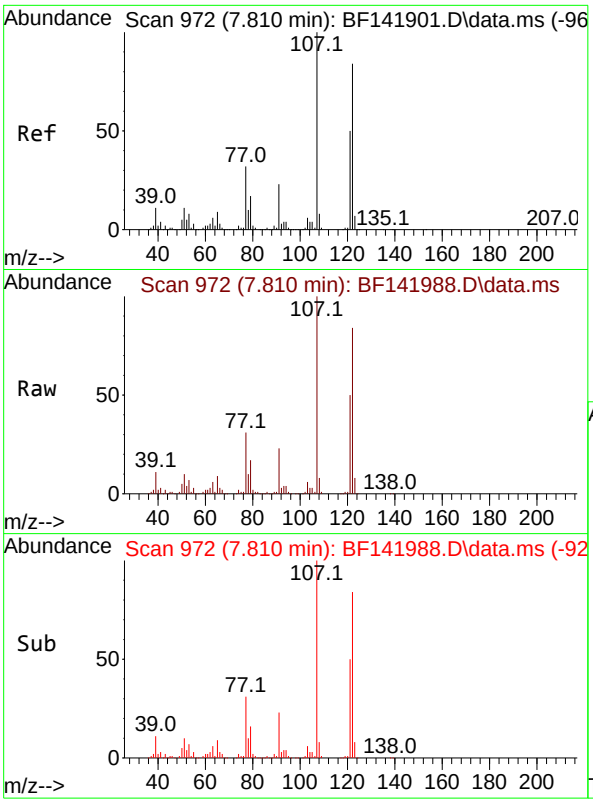


#26
2-Nitrophenol
Concen: 47.756 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:139 Resp: 250549

Ion	Ratio	Lower	Upper
139	100		
109	33.1	26.5	39.7
65	51.2	40.3	60.5



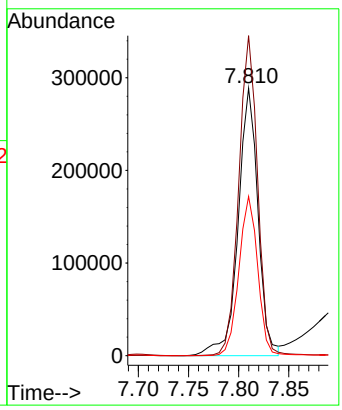


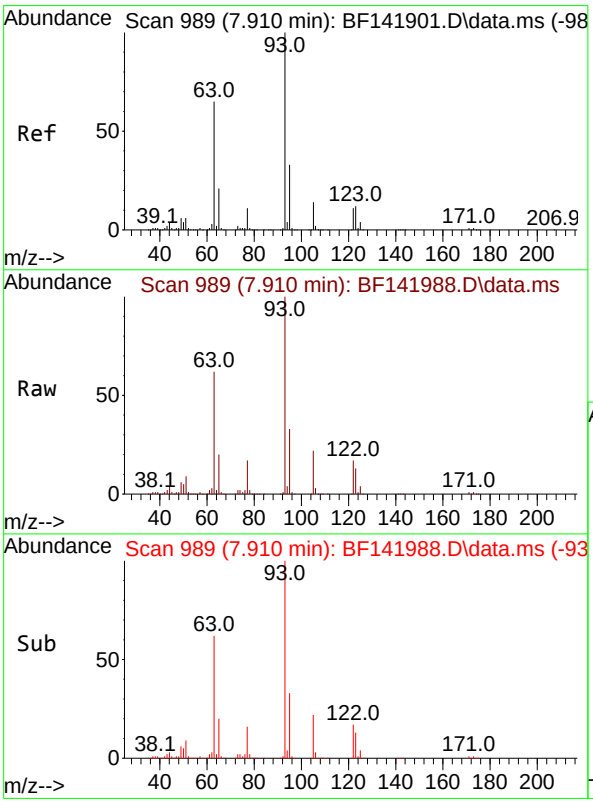
#27
2,4-Dimethylphenol
Concen: 55.226 ng
RT: 7.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:122 Resp: 398959

Ion	Ratio	Lower	Upper
122	100		
107	119.6	94.8	142.2
121	59.5	47.8	71.6

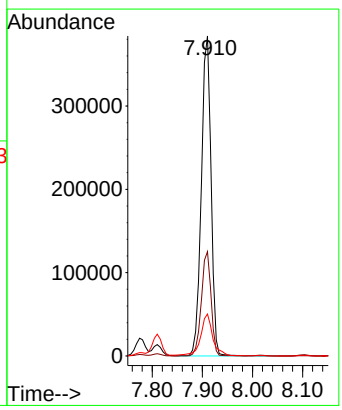


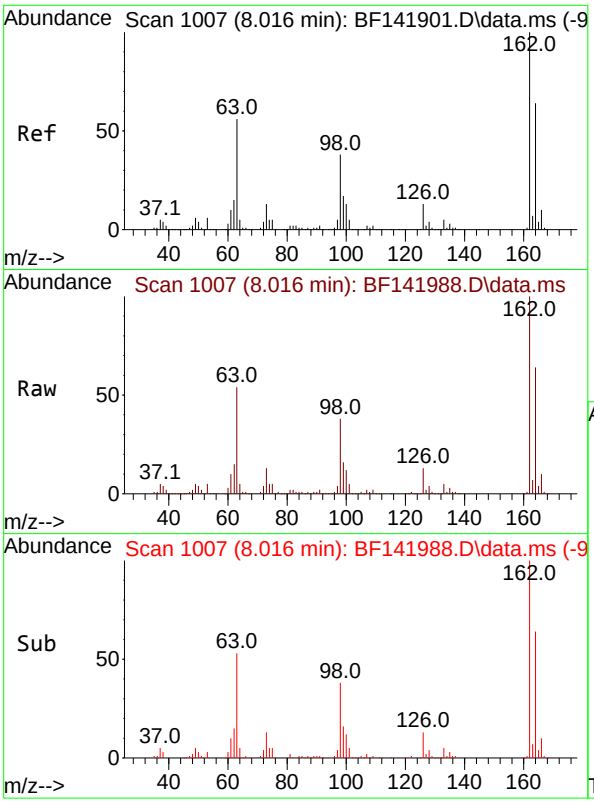


#28
bis(2-Chloroethoxy)methane
Concen: 43.409 ng
RT: 7.910 min Scan# 989
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 93 Resp: 517502

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.6	40.0
123	13.1	10.2	15.4



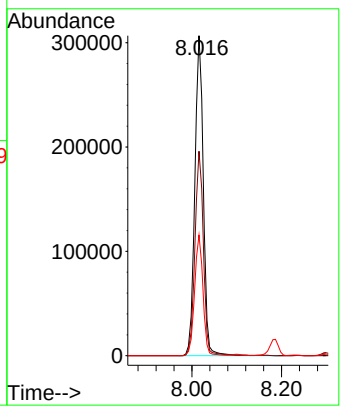


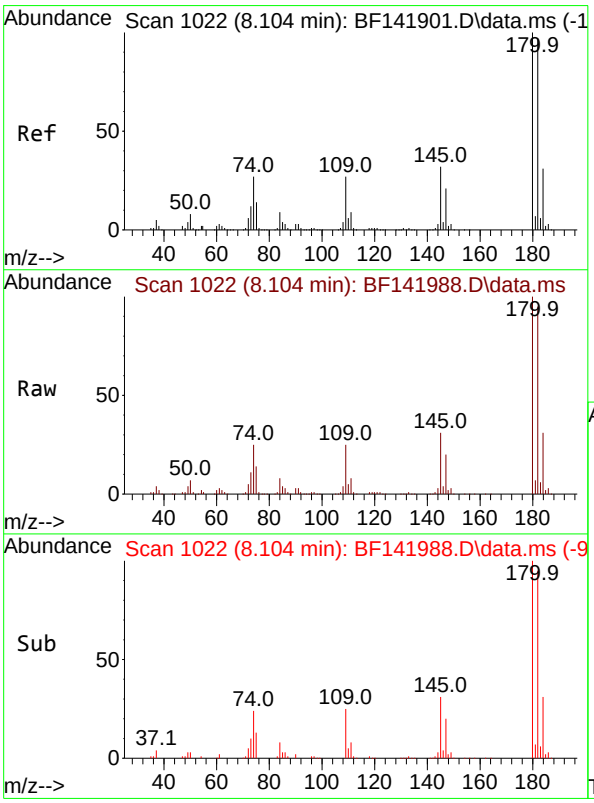
#29
2,4-Dichlorophenol
Concen: 44.955 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:162 Resp: 403105

Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.8	83.8
98	37.7	18.1	58.1

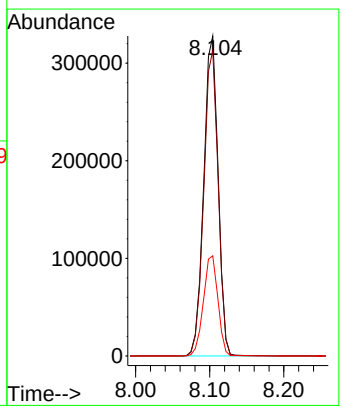


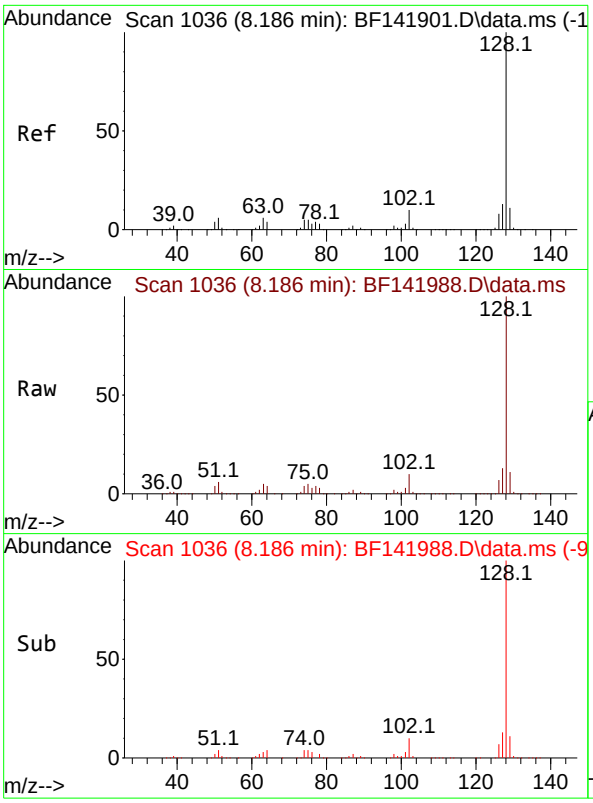


#30
1,2,4-Trichlorobenzene
Concen: 44.802 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:180 Resp: 442720

Ion	Ratio	Lower	Upper
180	100		
182	95.4	77.5	116.3
145	31.3	25.8	38.6



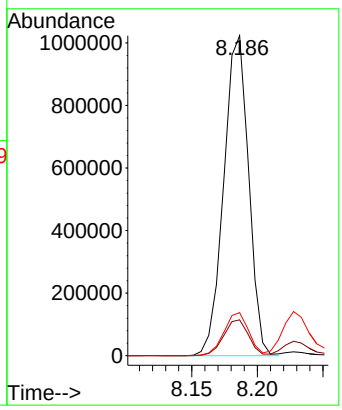


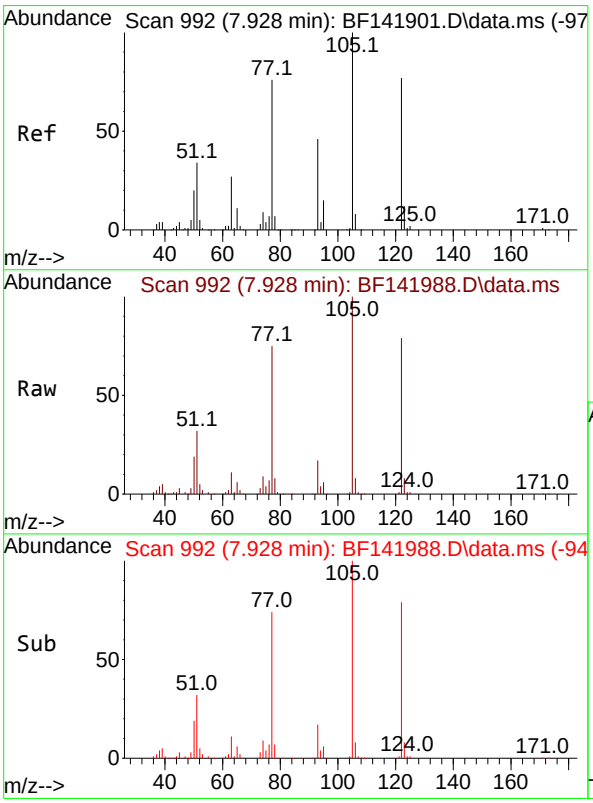
#31
Naphthalene
Concen: 43.417 ng
RT: 8.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:128 Resp: 1349583

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	13.5	10.8	16.2

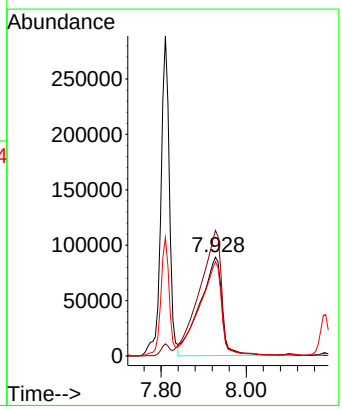


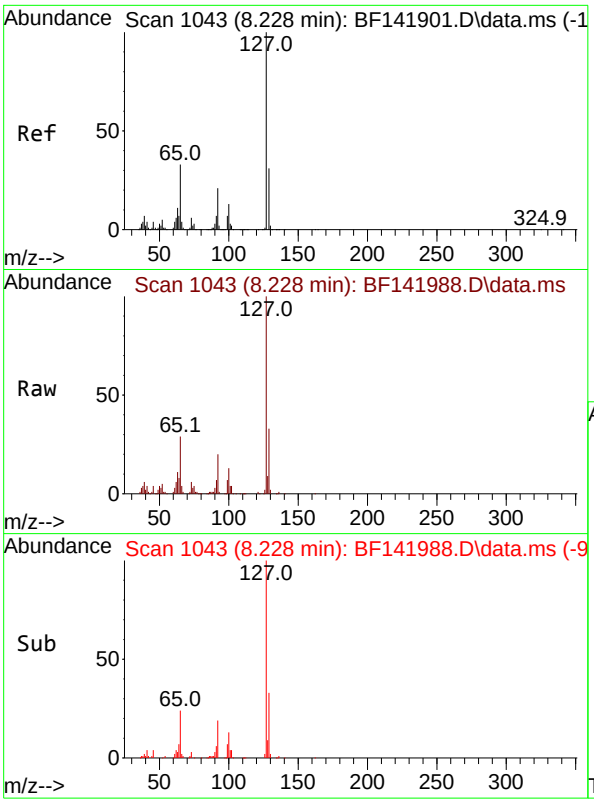


#32
Benzoic acid
Concen: 50.192 ng
RT: 7.928 min Scan# 992
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:122 Resp: 318732

Ion	Ratio	Lower	Upper
122	100		
105	126.9	107.9	147.9
77	95.4	79.0	119.0



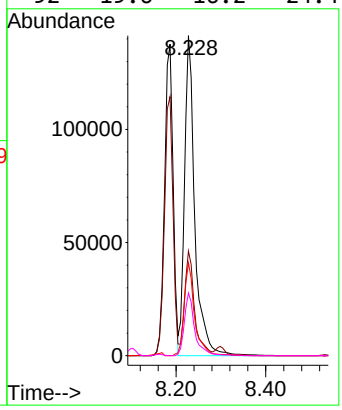


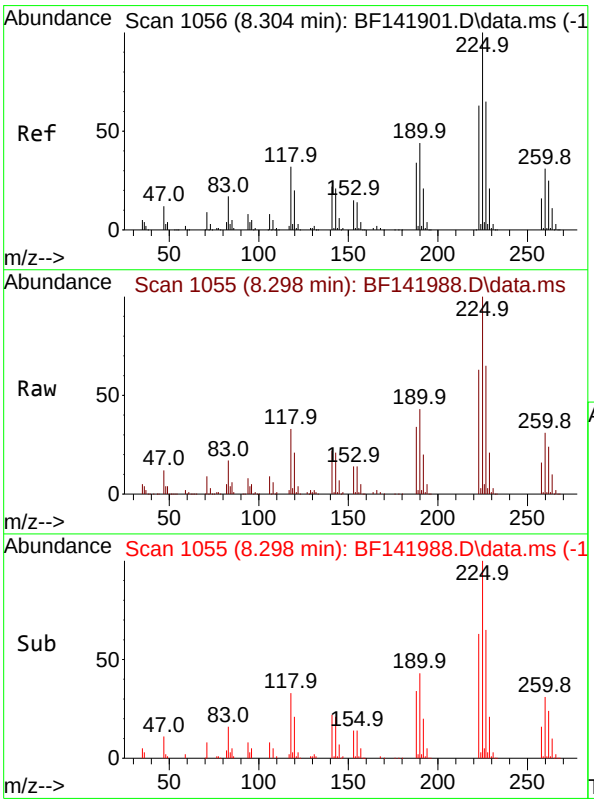
#33
4-Chloroaniline
Concen: 20.593 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:127 Resp: 225971

Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.2	39.4
65	29.0	25.4	38.2
92	19.6	16.2	24.4

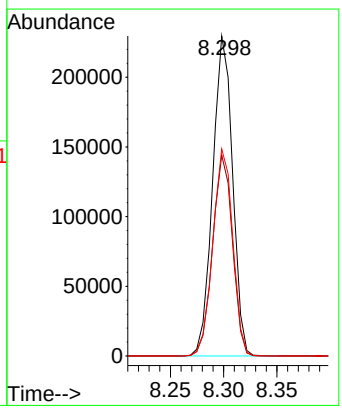


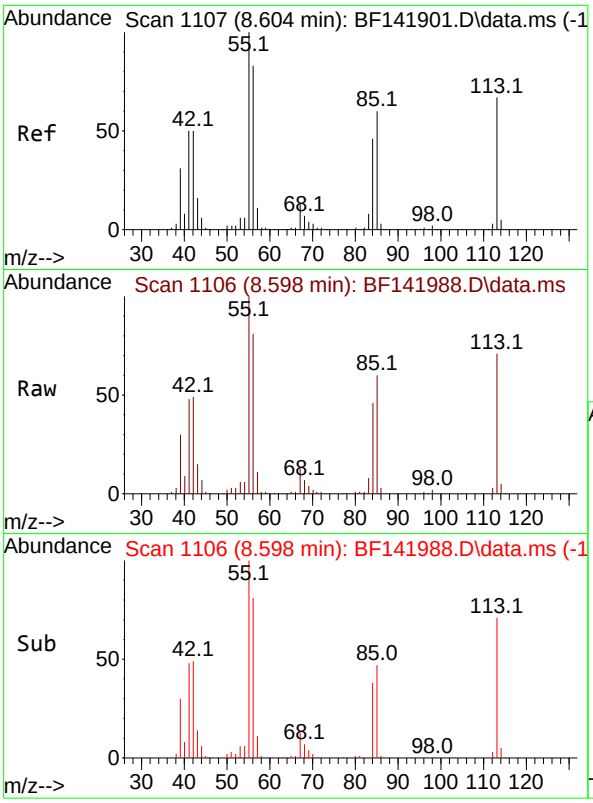


#34
Hexachlorobutadiene
Concen: 46.093 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:225 Resp: 297040

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.6	75.8
227	64.7	52.2	78.2



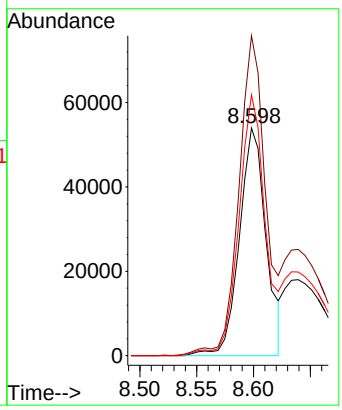


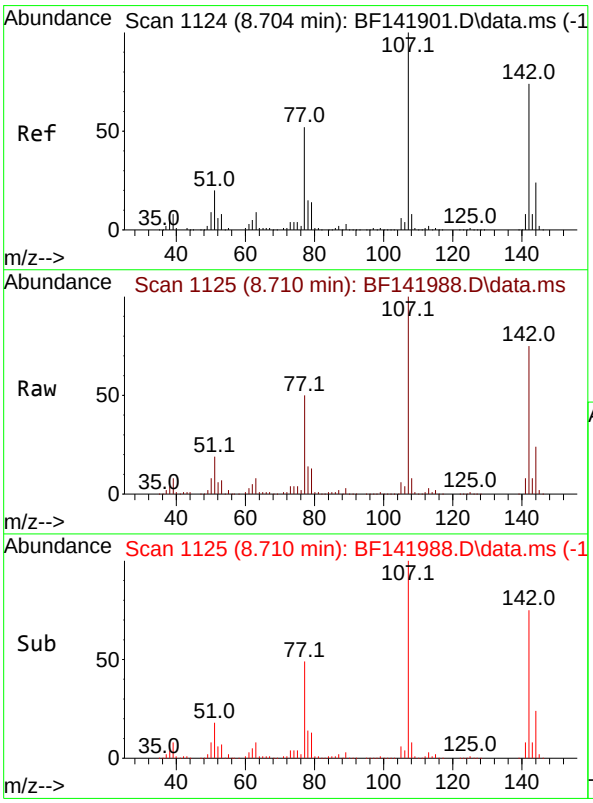
#35
Caprolactam
Concen: 32.067 ng
RT: 8.598 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:113 Resp: 87663

Ion	Ratio	Lower	Upper
113	100		
55	140.5	129.6	169.6
56	114.5	104.0	144.0

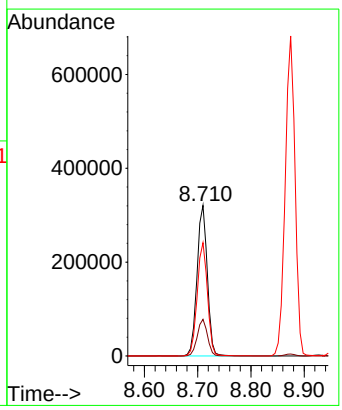


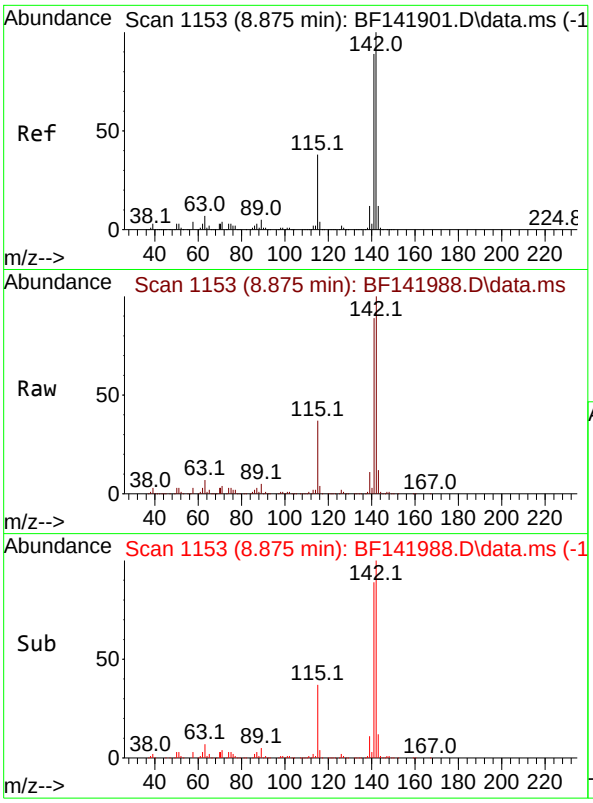


#36
4-Chloro-3-methylphenol
Concen: 43.152 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:107 Resp: 431630

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.0	28.6
142	75.2	59.2	88.8



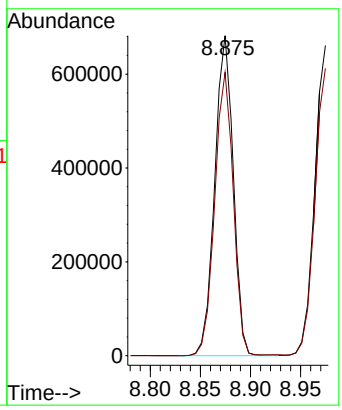


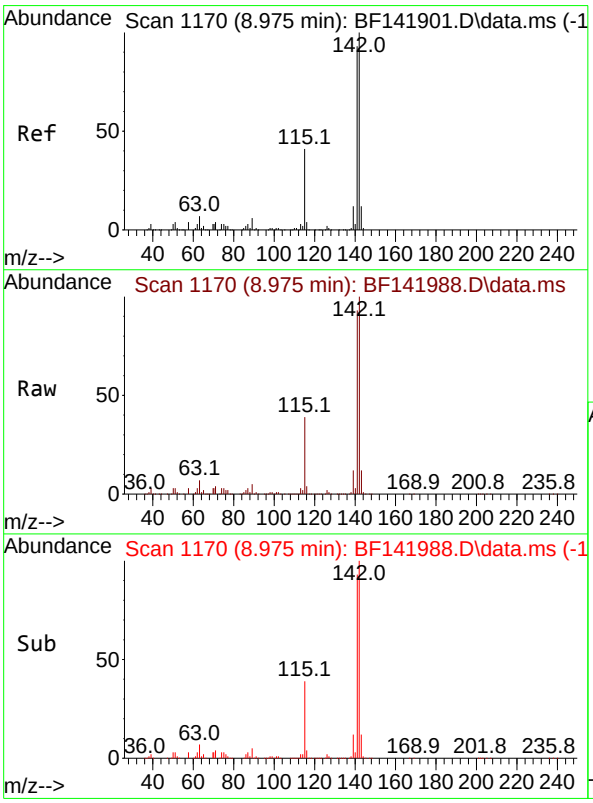
#37
2-Methylnaphthalene
Concen: 42.173 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:142 Resp: 876224

Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.2	106.8

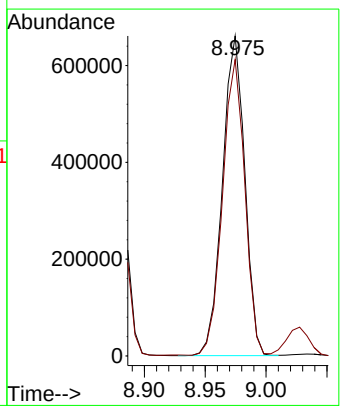


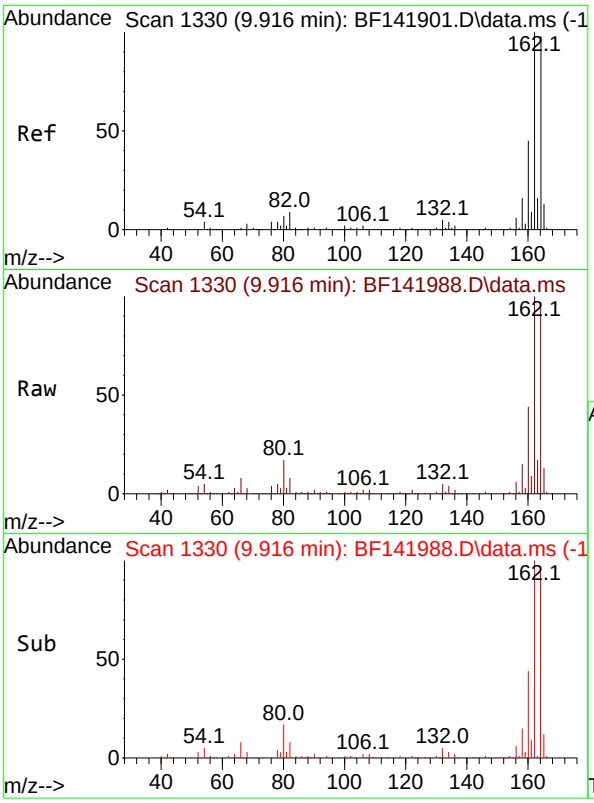


#38
1-Methylnaphthalene
Concen: 42.077 ng
RT: 8.975 min Scan# 1170
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:142 Resp: 843623

Ion	Ratio	Lower	Upper
142	100		
141	92.6	74.2	111.4



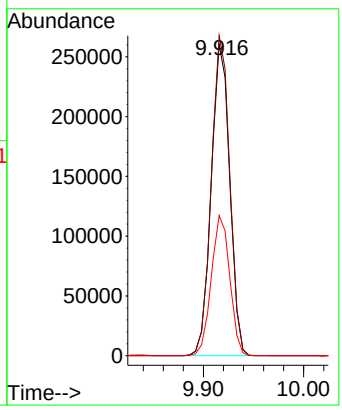


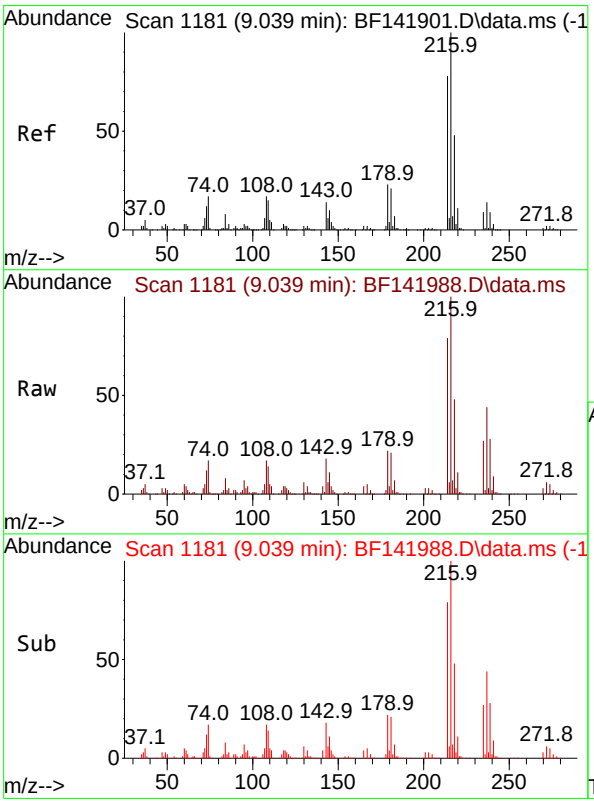
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:164 Resp: 333256

Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.8	122.6
160	45.0	36.7	55.1

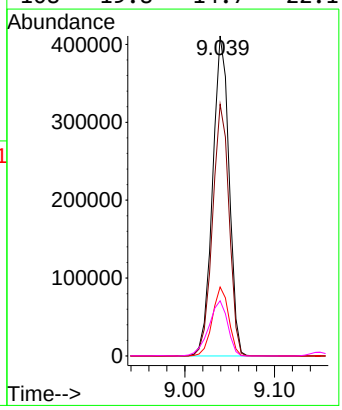


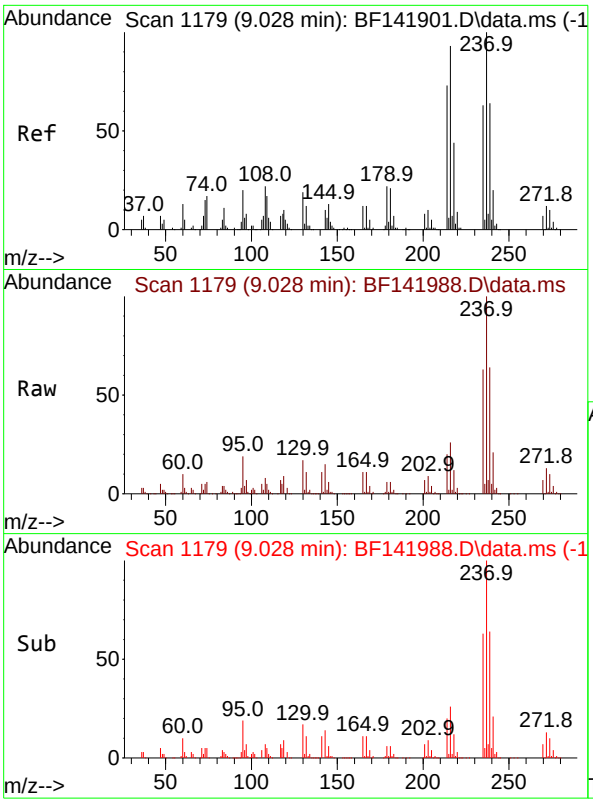


#40
1,2,4,5-Tetrachlorobenzene
Concen: 51.726 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:216 Resp: 524826

Ion	Ratio	Lower	Upper
216	100		
214	78.7	61.9	92.9
179	21.4	18.1	27.1
108	19.8	14.7	22.1



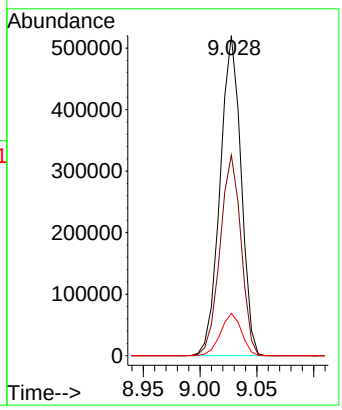


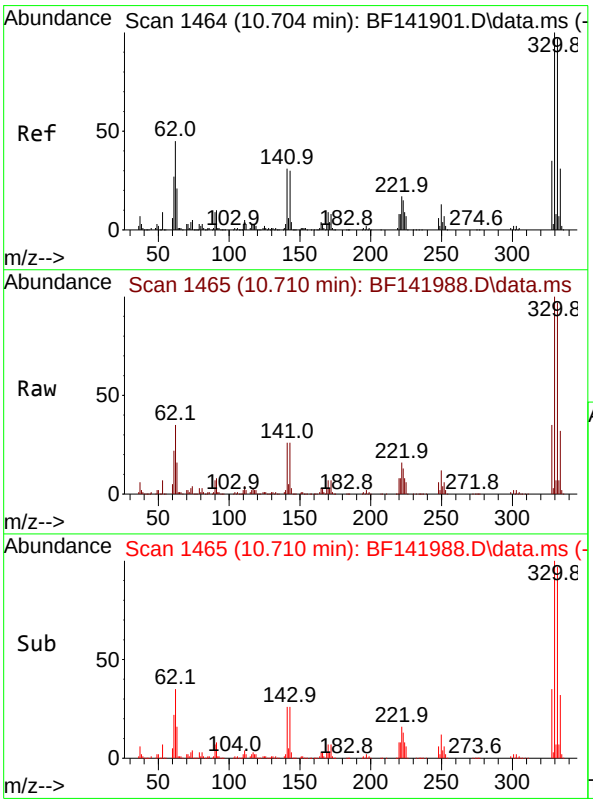
#41
Hexachlorocyclopentadiene
Concen: 168.290 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:237 Resp: 668256

Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.1	83.1
272	13.2	0.0	32.0

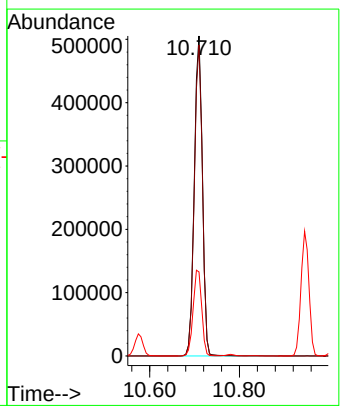


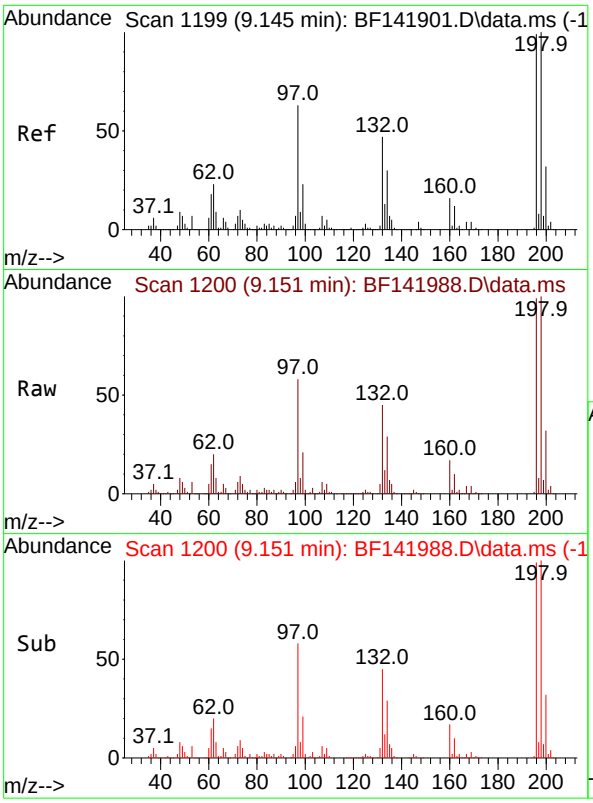


#42
2,4,6-Tribromophenol
Concen: 150.024 ng
RT: 10.710 min Scan# 1465
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:330 Resp: 634270

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.6	116.4
141	28.4	24.7	37.1



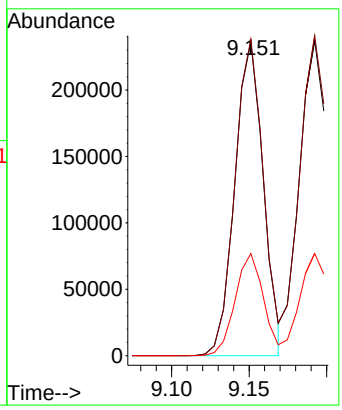


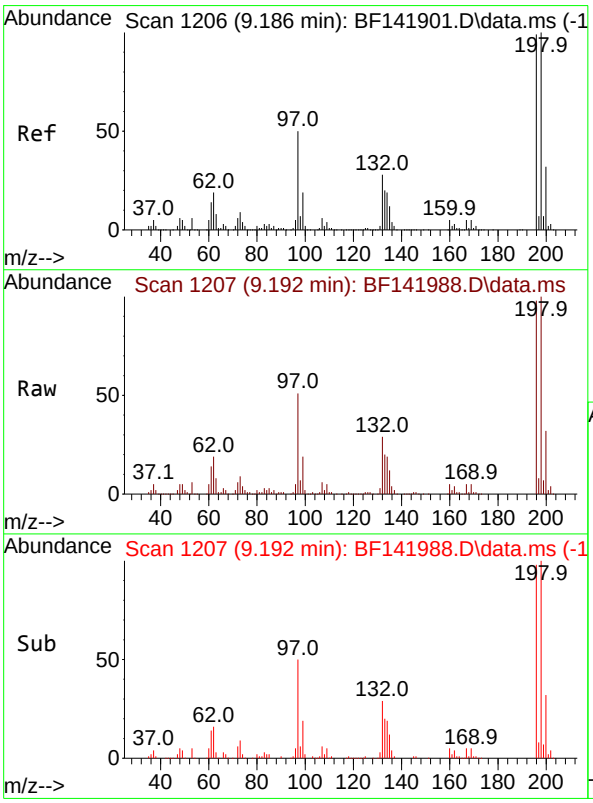
#43
2,4,6-Trichlorophenol
Concen: 45.456 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:196 Resp: 301417

Ion	Ratio	Lower	Upper
196	100		
198	100.9	80.6	121.0
200	32.5	25.8	38.6

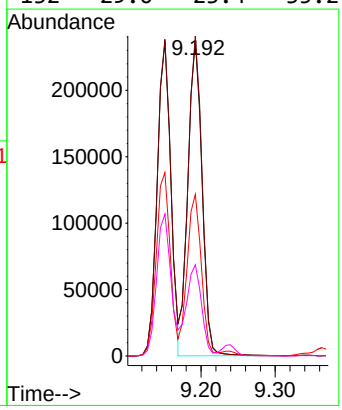


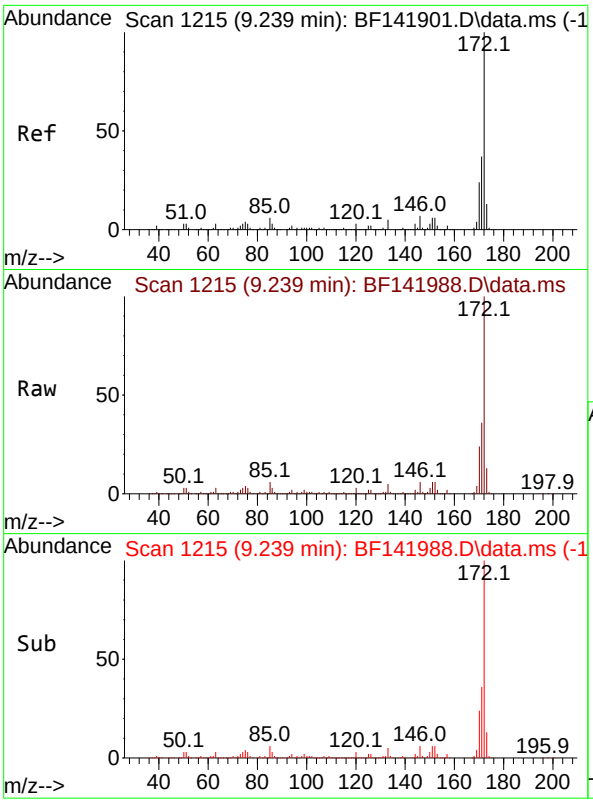


#44
2,4,5-Trichlorophenol
Concen: 46.874 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:196 Resp: 314799

Ion	Ratio	Lower	Upper
196	100		
198	101.5	80.7	121.1
97	51.3	42.1	63.1
132	29.0	23.4	35.2



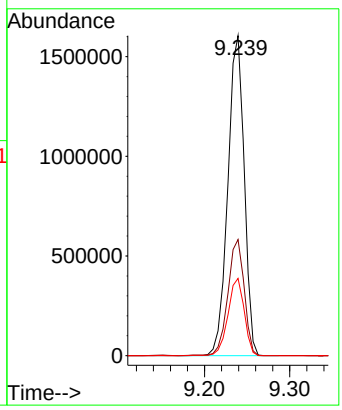


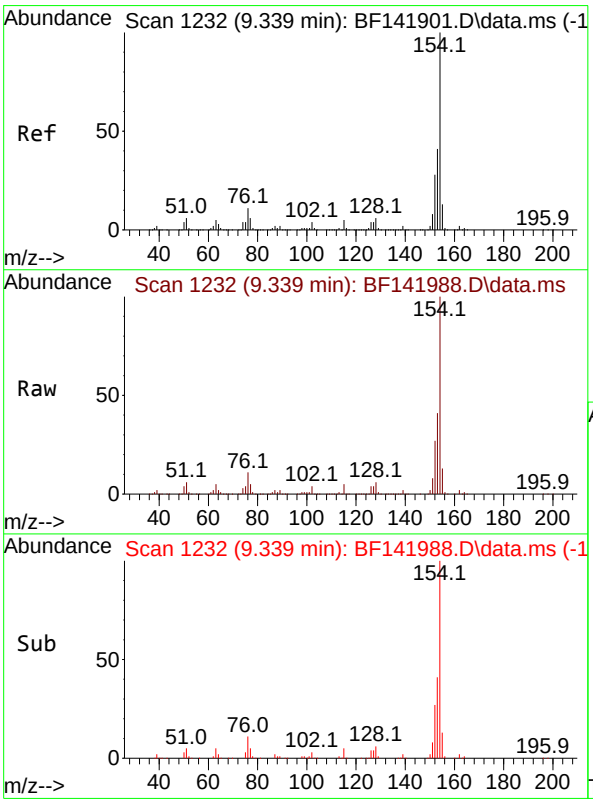
#45
2-Fluorobiphenyl
Concen: 97.649 ng
RT: 9.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:172 Resp: 2139796

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.3	43.9
170	24.1	19.4	29.0

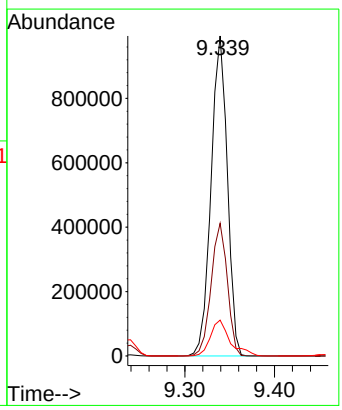


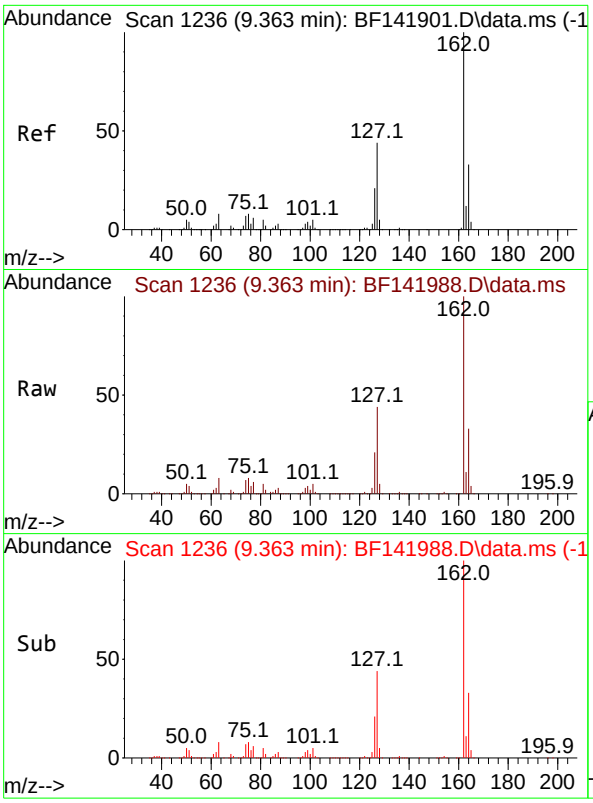


#46
1,1'-Biphenyl
Concen: 49.420 ng
RT: 9.339 min Scan# 1232
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:154 Resp: 1251387

Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.1	61.1
76	11.2	0.0	31.3



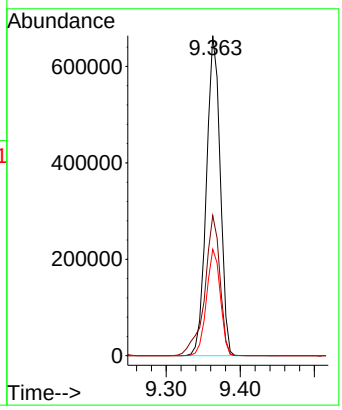


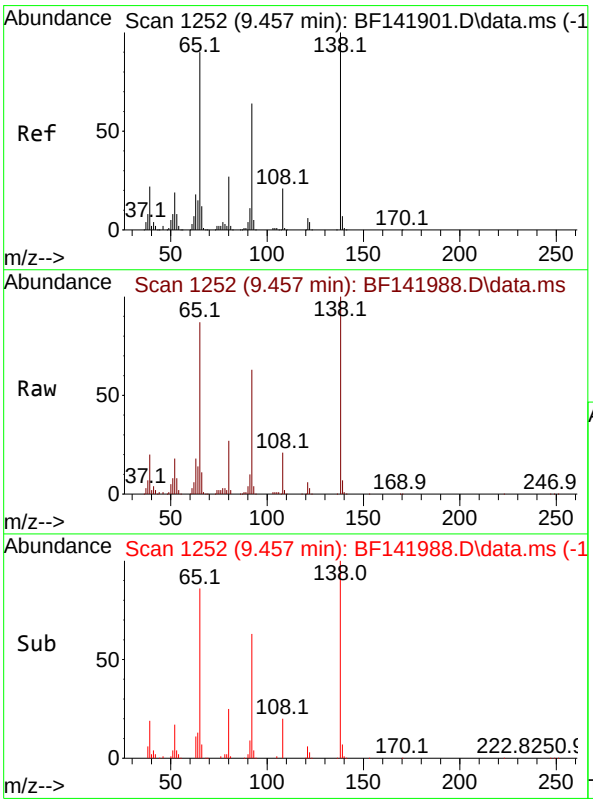
#47
2-Chloronaphthalene
Concen: 45.544 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:162 Resp: 859555

Ion	Ratio	Lower	Upper
162	100		
127	43.8	35.5	53.3
164	33.2	26.6	40.0

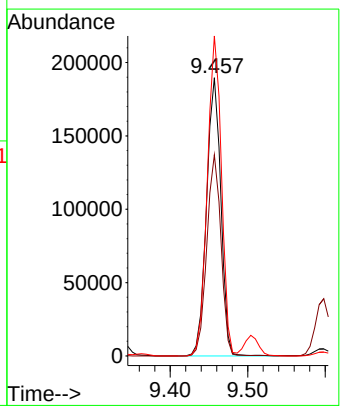


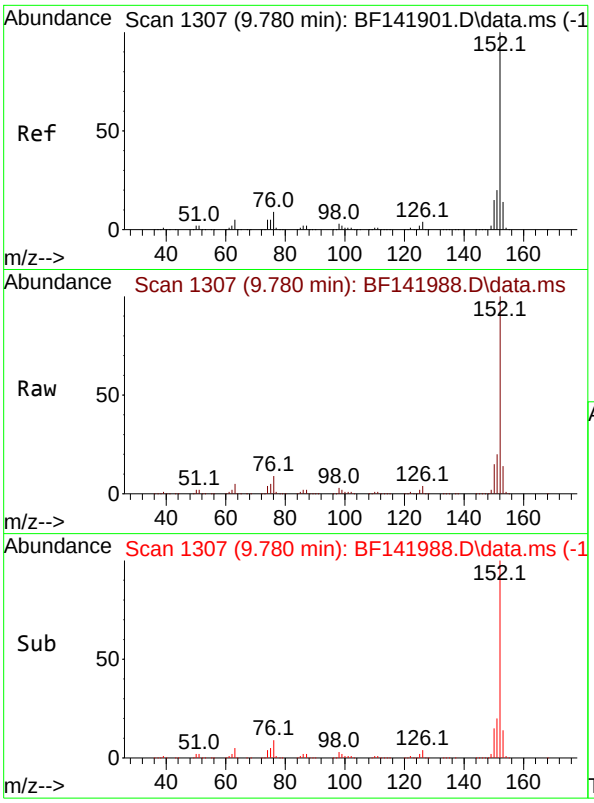


#48
2-Nitroaniline
Concen: 44.601 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion: 65 Resp: 243726

Ion	Ratio	Lower	Upper
65	100		
92	72.3	56.6	84.8
138	115.0	88.6	133.0



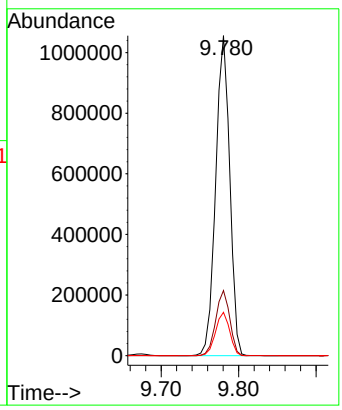


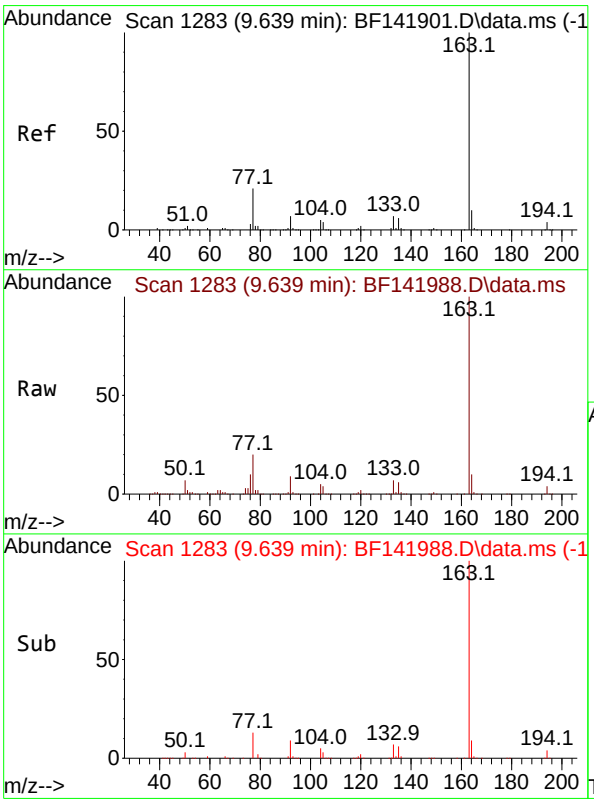
#49
Acenaphthylene
Concen: 47.682 ng
RT: 9.780 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:152 Resp: 1335434

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	13.5	11.1	16.7

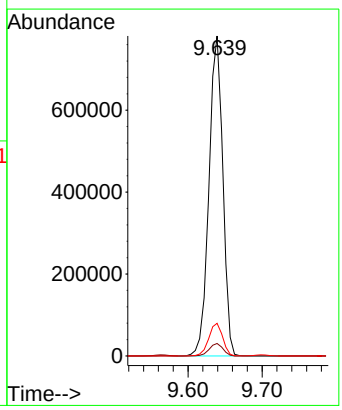


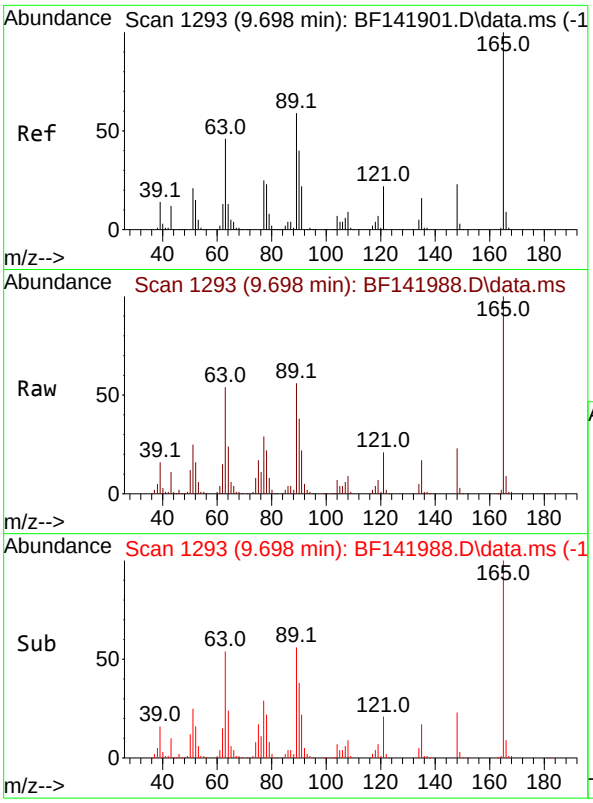


#50
Dimethylphthalate
Concen: 43.521 ng
RT: 9.639 min Scan# 1283
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:163 Resp: 1015664

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.2	8.2	12.4



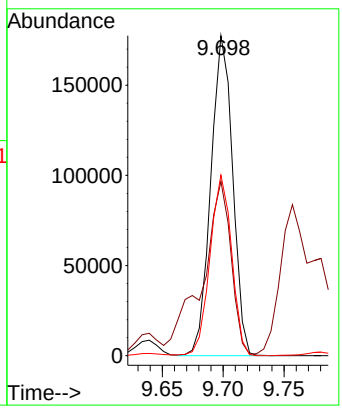


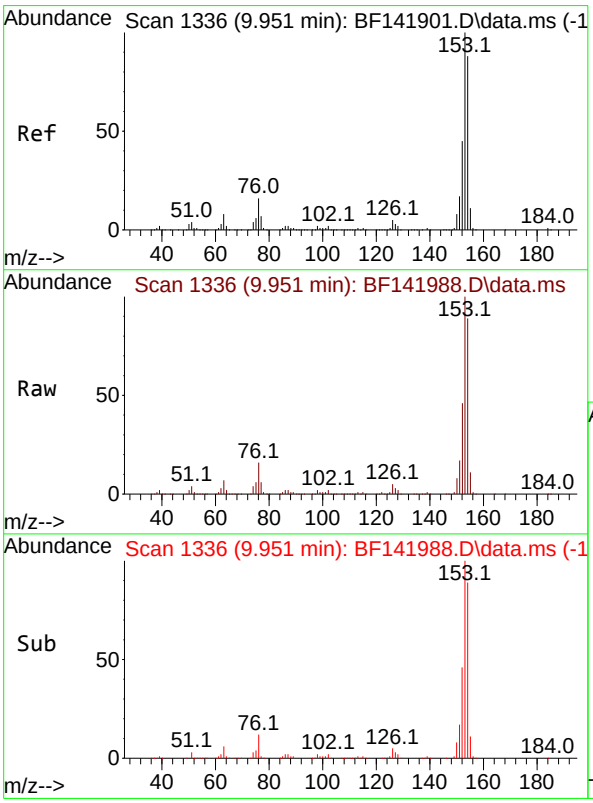
#51
2,6-Dinitrotoluene
Concen: 45.610 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:165 Resp: 221617

Ion	Ratio	Lower	Upper
165	100		
63	54.5	47.0	70.4
89	56.4	47.4	71.2

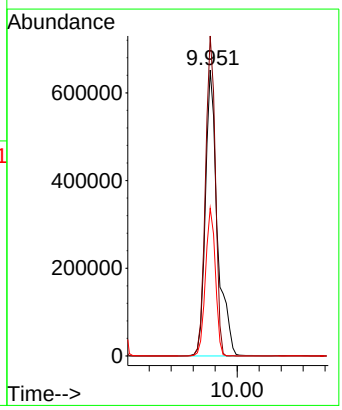


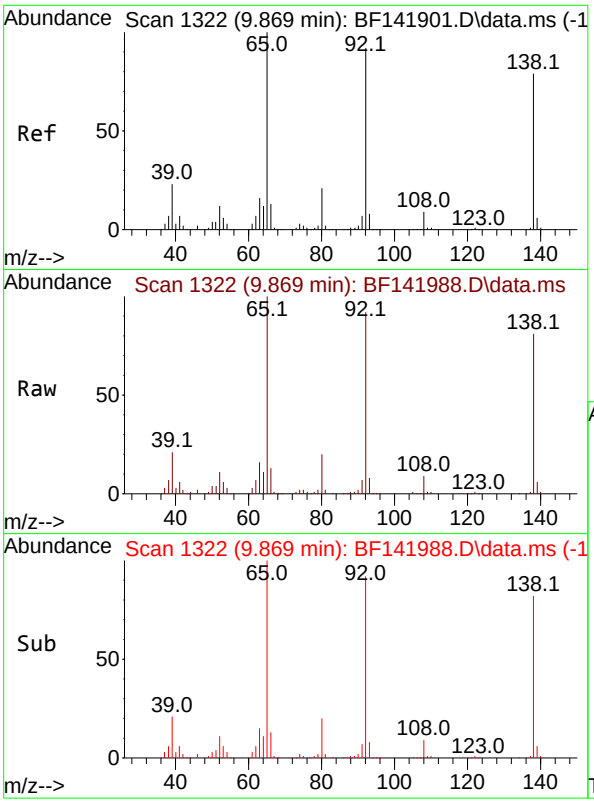


#52
Acenaphthene
Concen: 50.351 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:154 Resp: 991021

Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.7	136.1
152	51.7	41.1	61.7



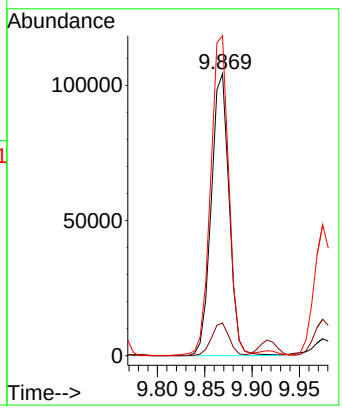


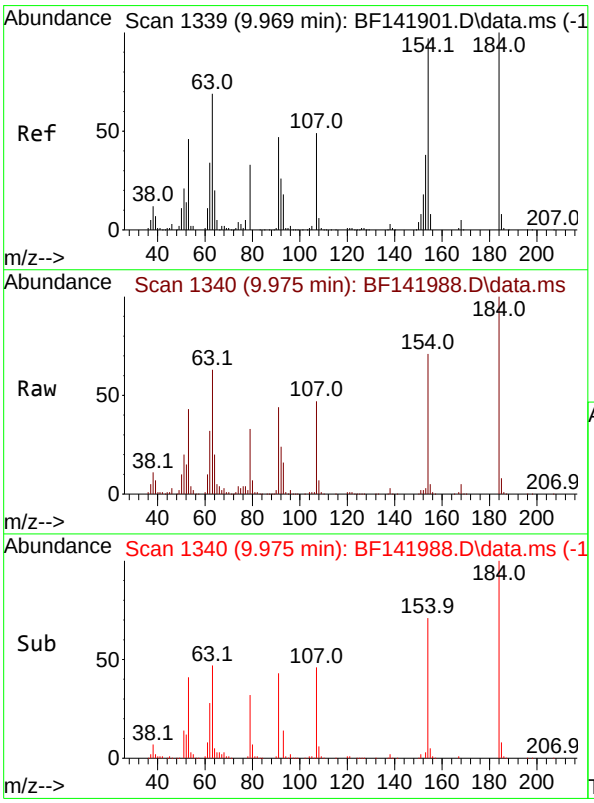
#53
3-Nitroaniline
Concen: 27.894 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:138 Resp: 137483

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.3	13.9
92	113.5	93.5	140.3

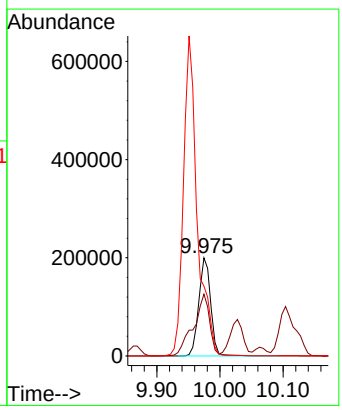


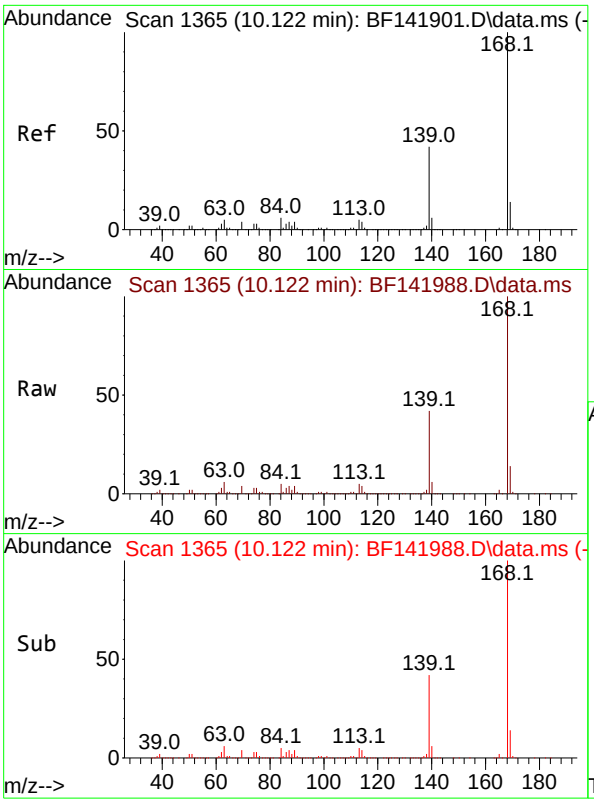


#54
2,4-Dinitrophenol
Concen: 93.511 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:184 Resp: 261502

Ion	Ratio	Lower	Upper
184	100		
63	63.0	60.2	90.4
154	71.1	132.9	199.3#



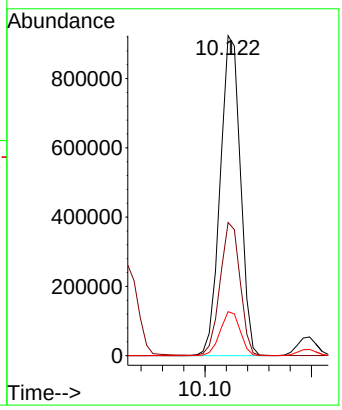


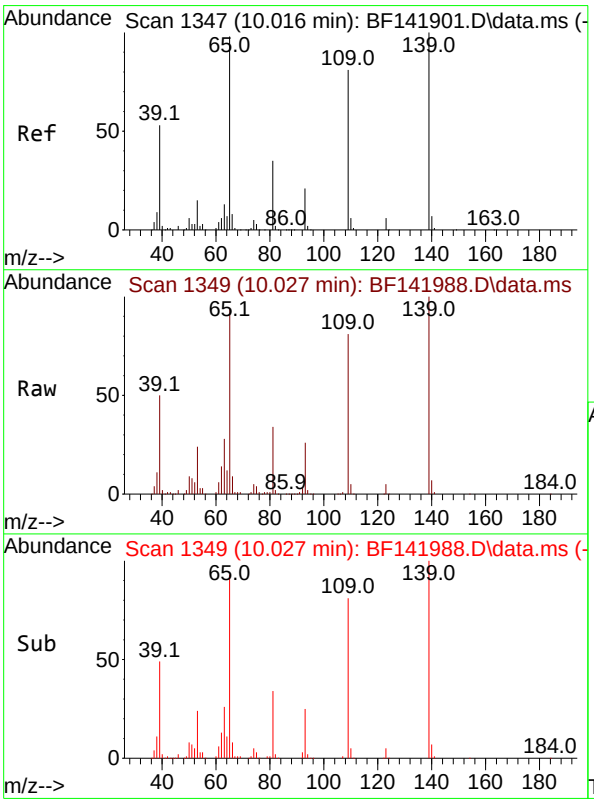
#55
Dibenzofuran
Concen: 43.277 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:168 Resp: 1217099

Ion	Ratio	Lower	Upper
168	100		
139	41.6	33.9	50.9
169	13.7	11.0	16.4

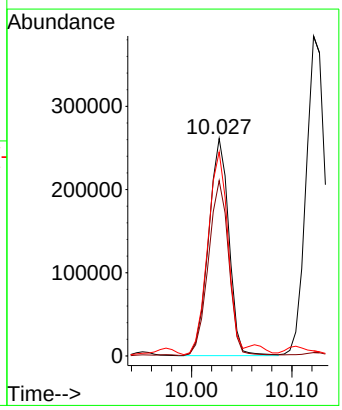


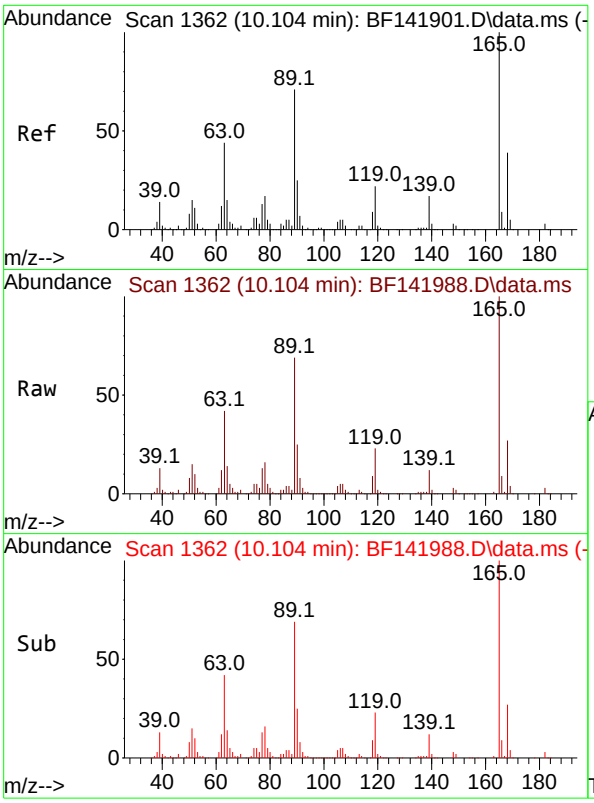


#56
4-Nitrophenol
Concen: 98.900 ng
RT: 10.027 min Scan# 1349
Delta R.T. 0.012 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:139 Resp: 367609

Ion	Ratio	Lower	Upper
139	100		
109	80.7	61.6	101.6
65	93.8	79.4	119.4



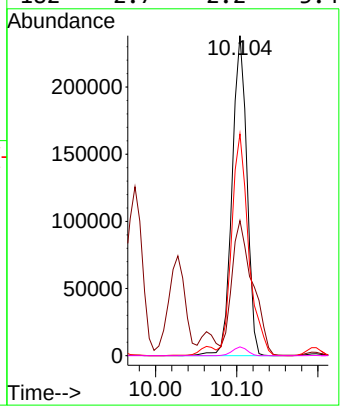


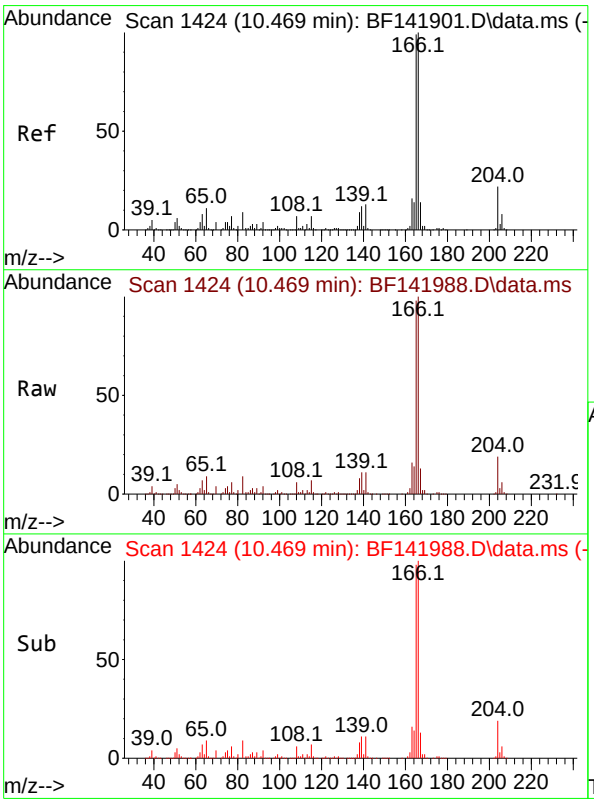
#57
2,4-Dinitrotoluene
Concen: 47.561 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:165 Resp: 301837

Ion	Ratio	Lower	Upper
165	100		
63	42.2	35.4	53.2
89	69.3	56.6	84.8
182	2.7	2.2	3.4

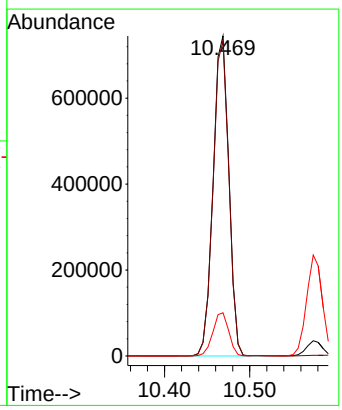


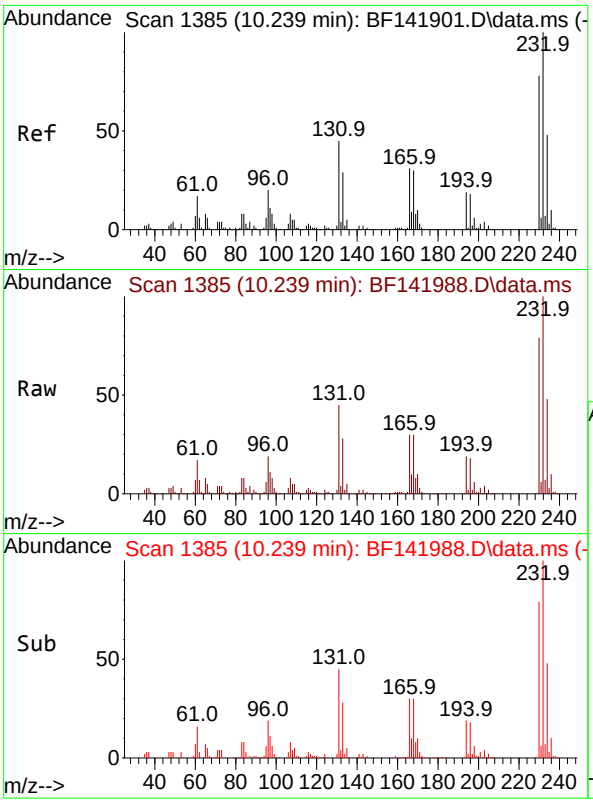


#58
Fluorene
Concen: 44.021 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:166 Resp: 954715

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.0	118.4
167	13.5	11.0	16.4



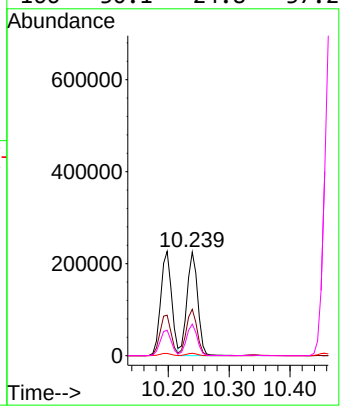


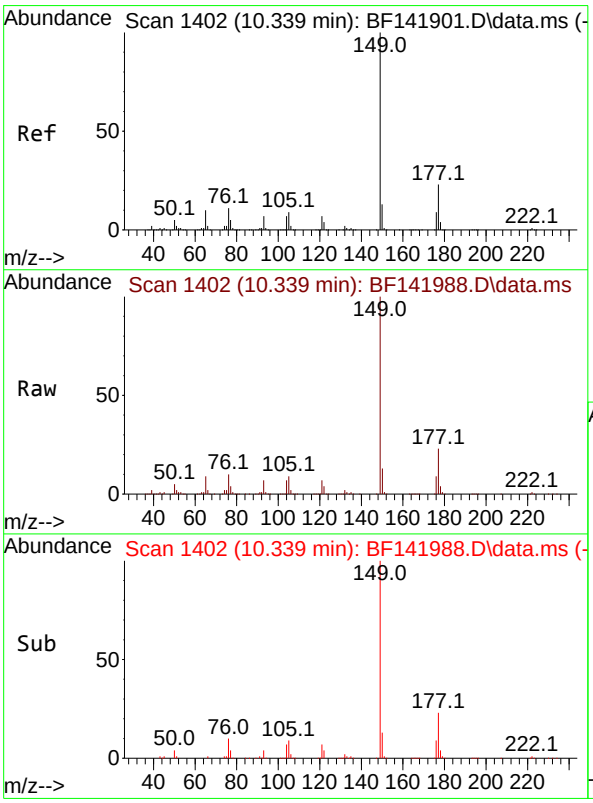
#59
2,3,4,6-Tetrachlorophenol
Concen: 45.502 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:232 Resp: 278073

Ion	Ratio	Lower	Upper
232	100		
131	44.8	37.3	55.9
130	2.3	1.9	2.9
166	30.1	24.8	37.2

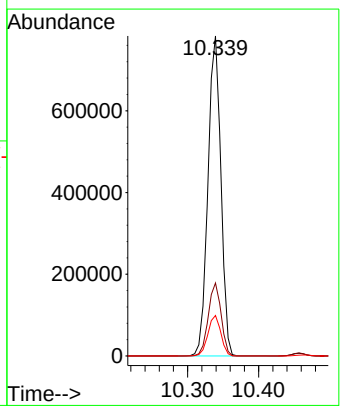


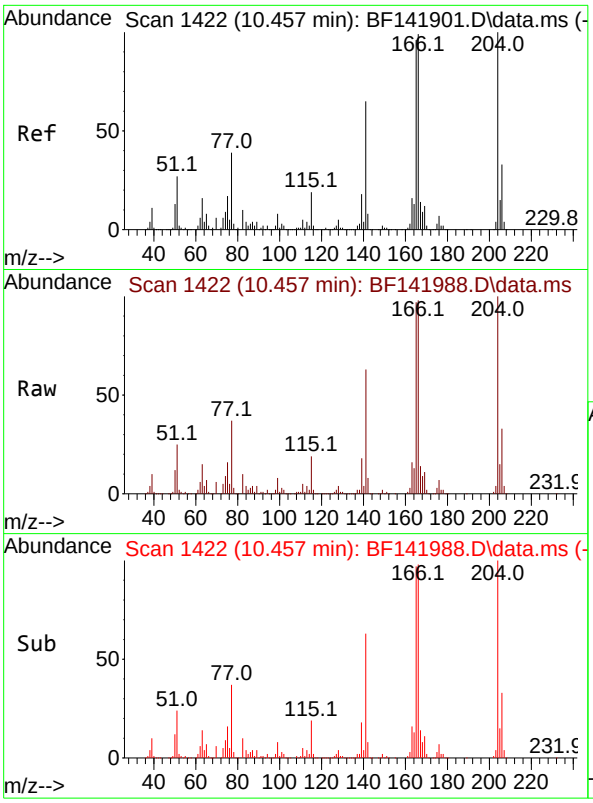


#60
Diethylphthalate
Concen: 42.558 ng
RT: 10.339 min Scan# 1402
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:149 Resp: 990323

Ion	Ratio	Lower	Upper
149	100		
177	22.8	18.0	27.0
150	12.7	10.2	15.4



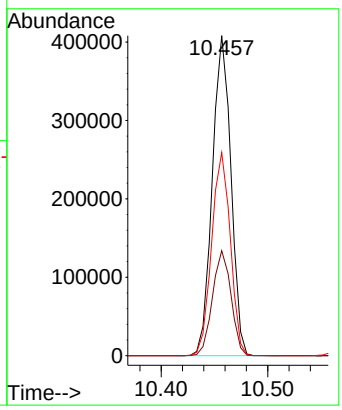


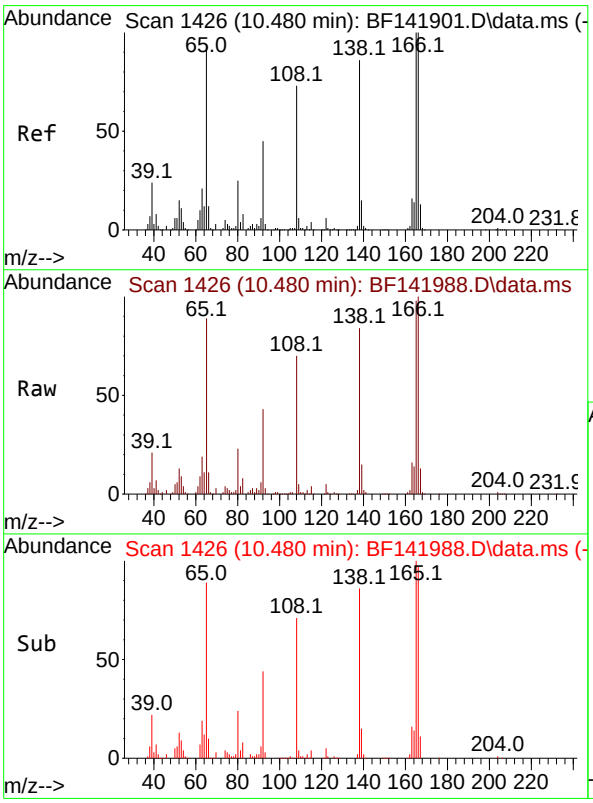
#61
4-Chlorophenyl-phenylether
Concen: 43.691 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:204 Resp: 494016

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.8	40.2
141	63.5	52.4	78.6

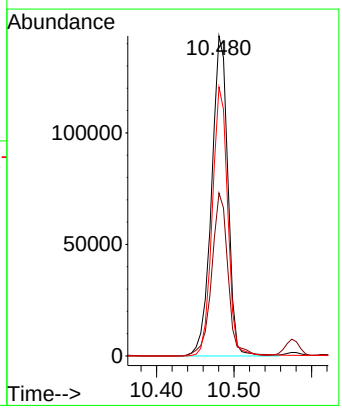


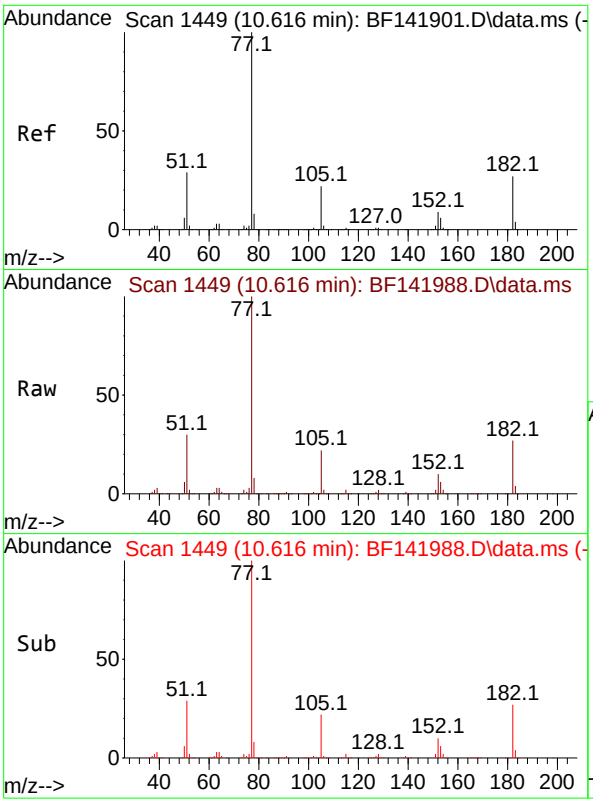


#62
4-Nitroaniline
Concen: 43.724 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:138 Resp: 209808

Ion	Ratio	Lower	Upper
138	100		
92	50.9	32.6	72.6
108	84.1	65.0	105.0



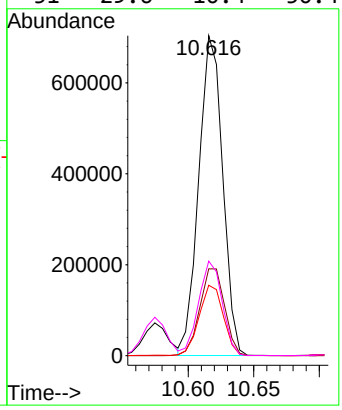


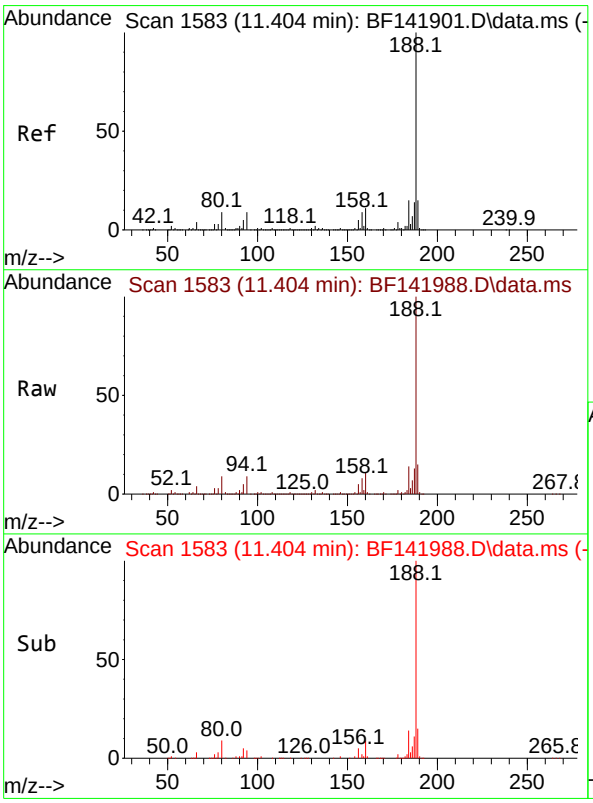
#63
Azobenzene
Concen: 41.365 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion: 77 Resp: 894901

Ion	Ratio	Lower	Upper
77	100		
182	27.2	6.6	46.6
105	22.0	1.3	41.3
51	29.6	10.4	50.4

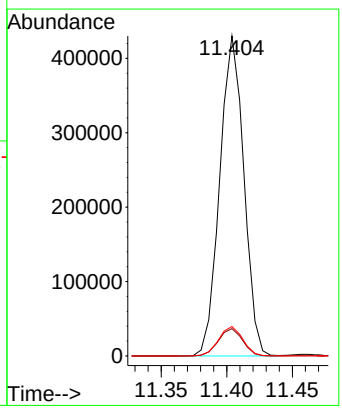


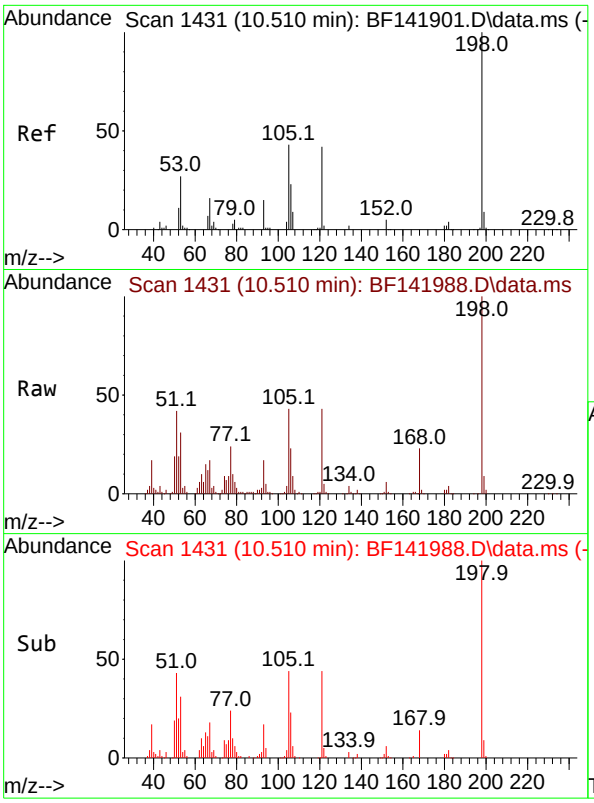


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:188 Resp: 550204

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.8	10.2
80	9.2	7.6	11.4



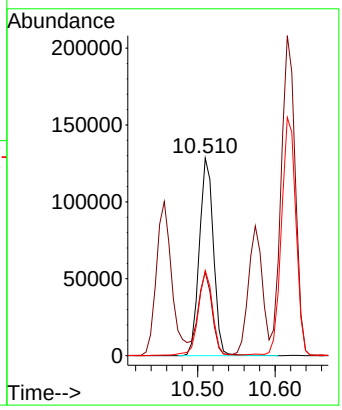


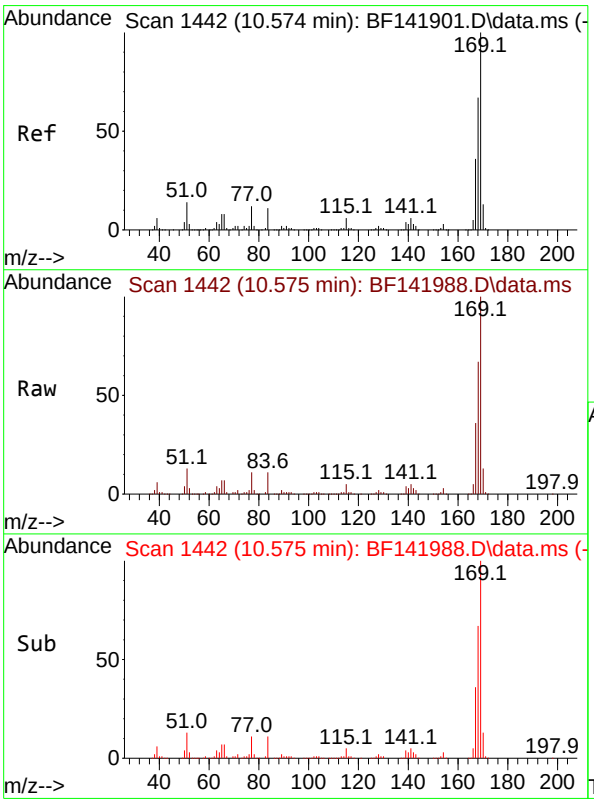
#65
4,6-Dinitro-2-methylphenol
Concen: 49.508 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:198 Resp: 162385

Ion	Ratio	Lower	Upper
198	100		
51	42.3	22.3	62.3
105	43.1	23.0	63.0

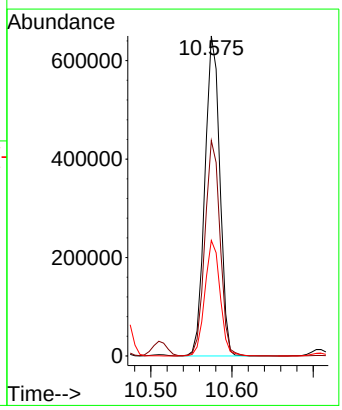


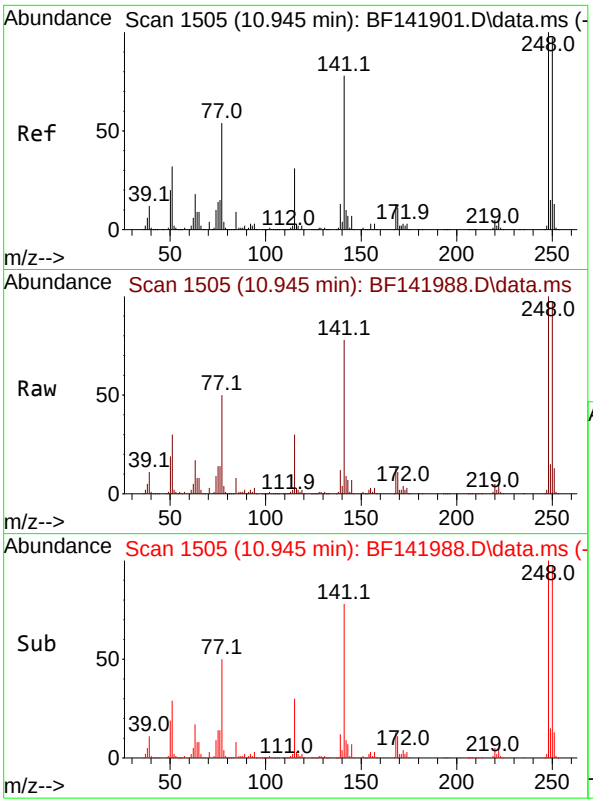


#66
n-Nitrosodiphenylamine
Concen: 46.450 ng
RT: 10.575 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:169 Resp: 827044

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.7	80.5
167	36.1	29.2	43.8



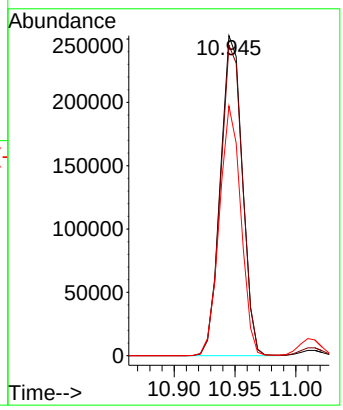


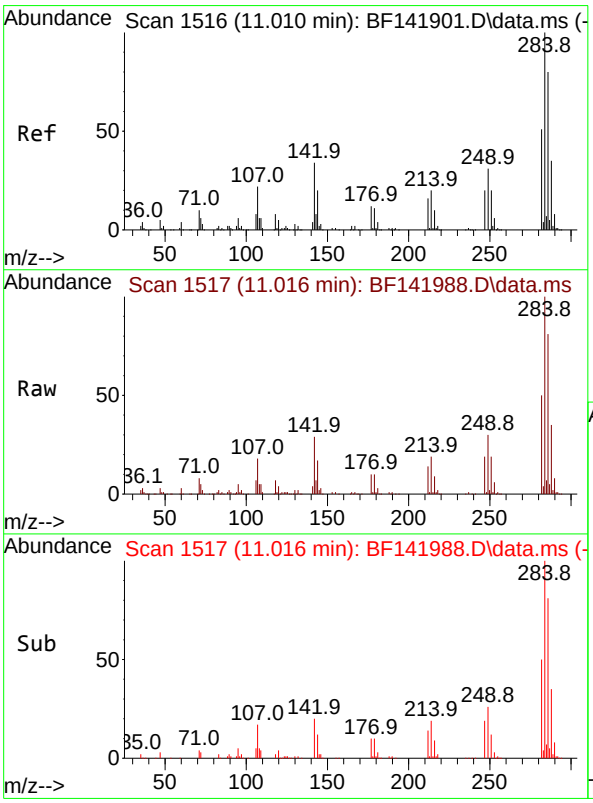
#67
4-Bromophenyl-phenylether
Concen: 45.987 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:248 Resp: 317766

Ion	Ratio	Lower	Upper
248	100		
250	97.0	77.8	116.8
141	78.0	62.6	93.8

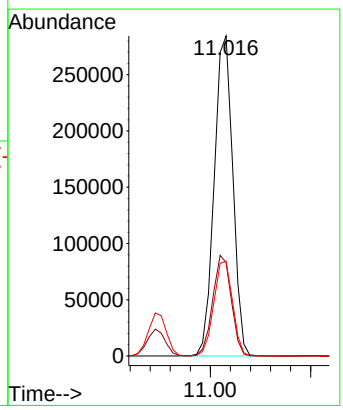


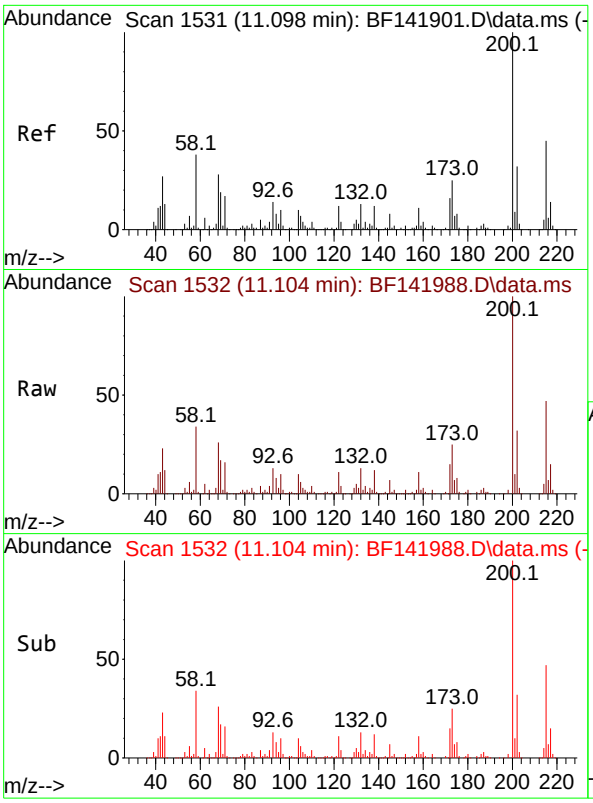


#68
Hexachlorobenzene
Concen: 48.306 ng
RT: 11.016 min Scan# 1517
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:284 Resp: 366094

Ion	Ratio	Lower	Upper
284	100		
142	29.2	27.0	40.6
249	29.6	25.2	37.8



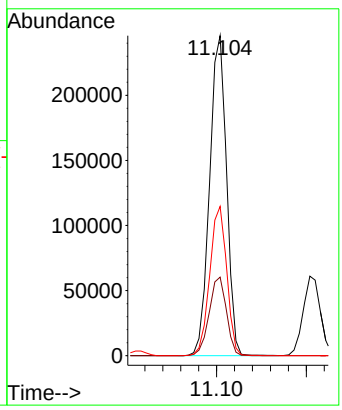


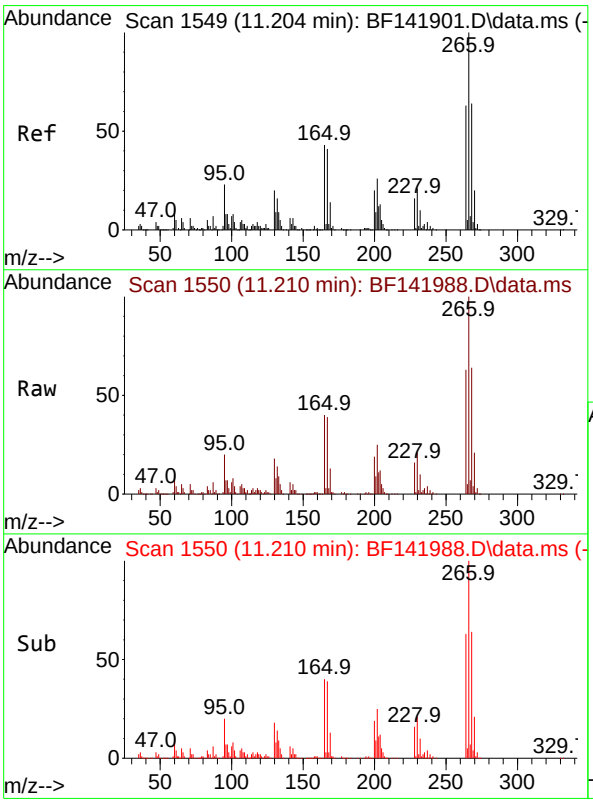
#69
Atrazine
Concen: 59.022 ng
RT: 11.104 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:200 Resp: 322158

Ion	Ratio	Lower	Upper
200	100		
173	24.6	4.7	44.7
215	46.7	25.4	65.4

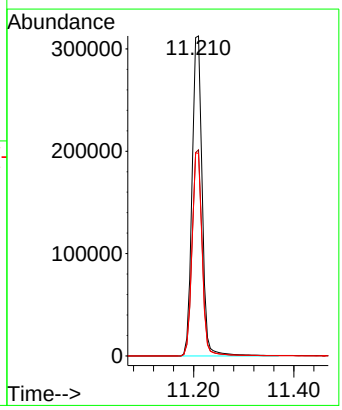


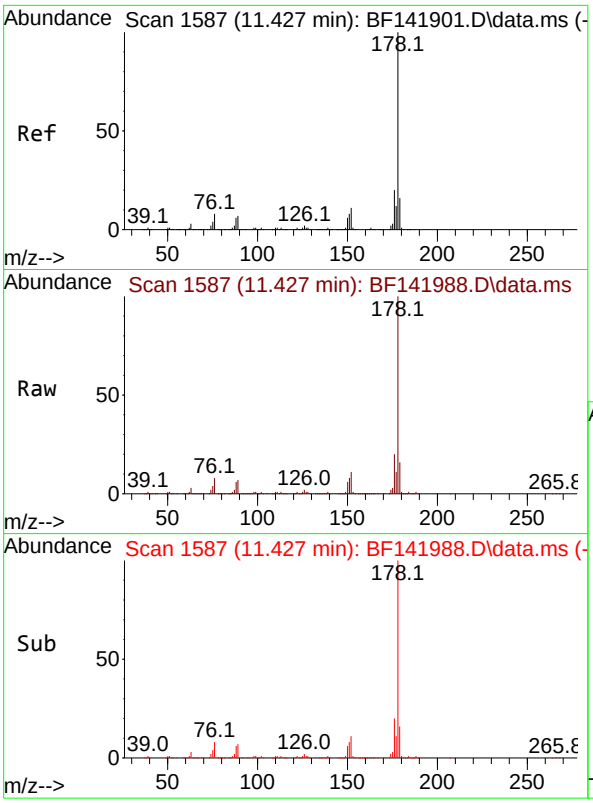


#70
Pentachlorophenol
Concen: 93.351 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:266 Resp: 435894

Ion	Ratio	Lower	Upper
266	100		
268	64.4	51.0	76.6
264	63.3	50.2	75.2



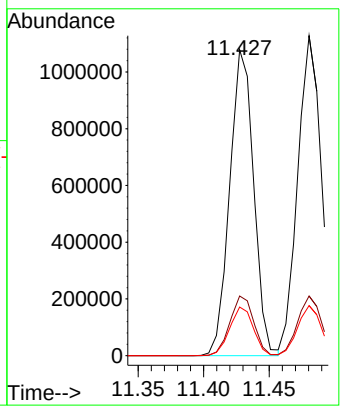


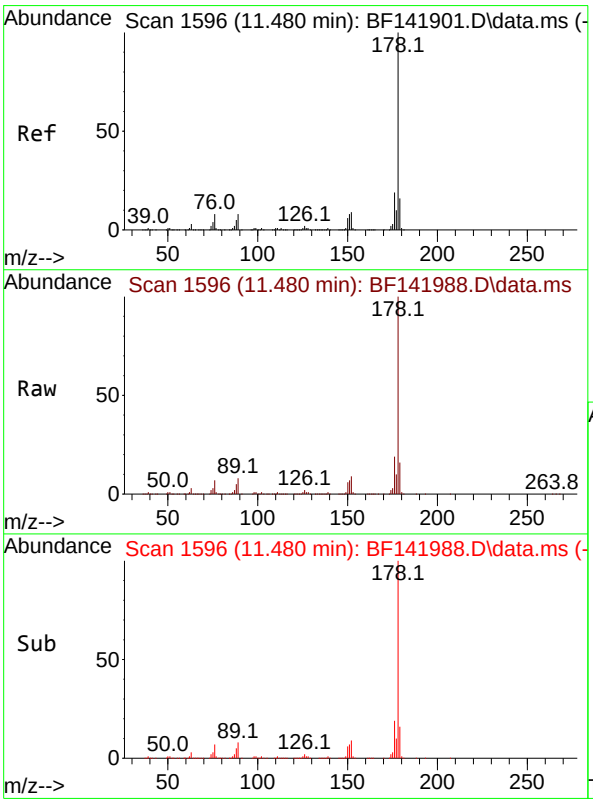
#71
Phenanthrene
Concen: 46.249 ng
RT: 11.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:178 Resp: 1374452

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.9	12.6	19.0

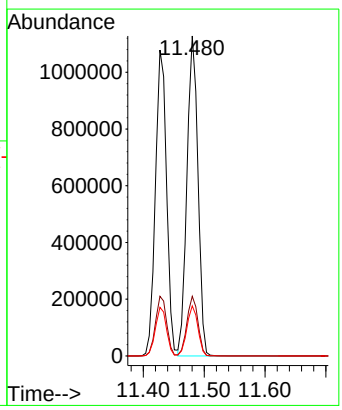


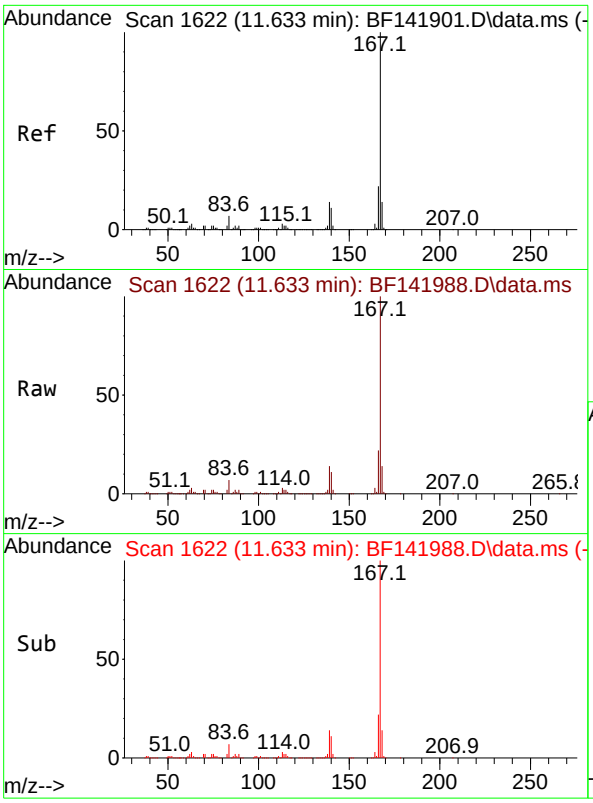


#72
Anthracene
Concen: 47.387 ng
RT: 11.480 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:178 Resp: 1412854

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.1	22.7
179	15.7	12.6	19.0



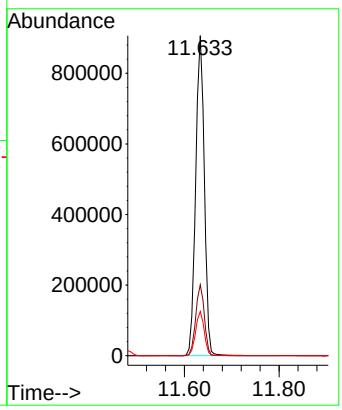


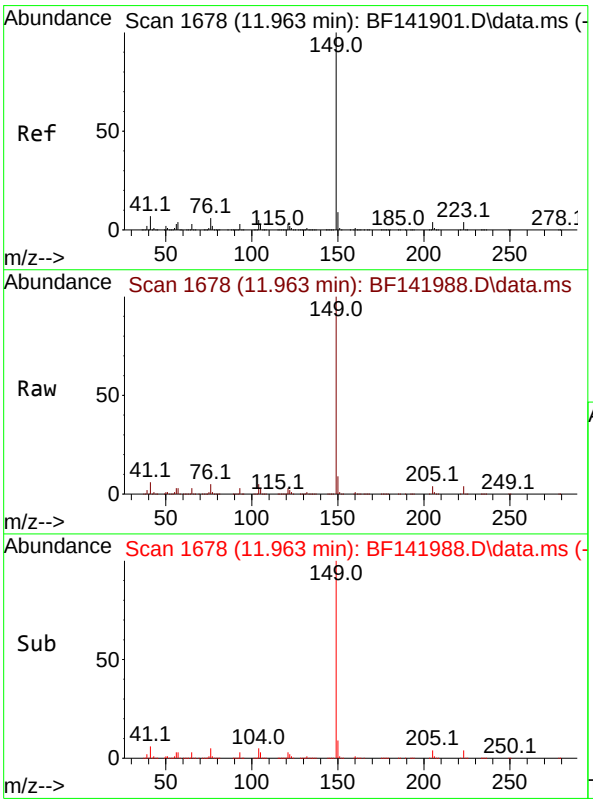
#73
Carbazole
Concen: 44.932 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:167 Resp: 1155342

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.4	26.2
139	13.8	11.0	16.6

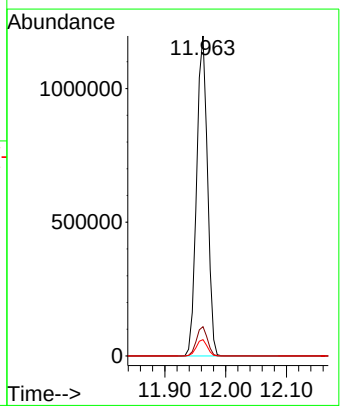


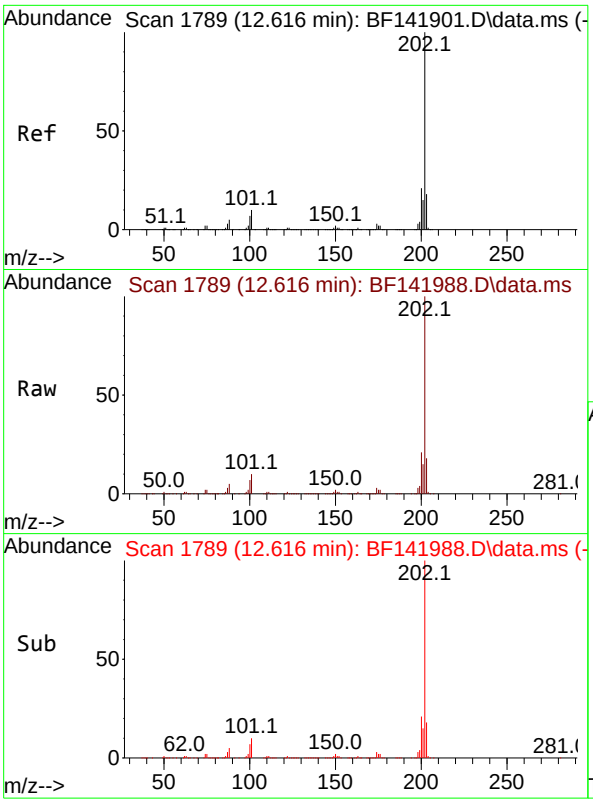


#74
Di-n-butylphthalate
Concen: 43.374 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:149 Resp: 1479834

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.6	11.4
104	5.1	4.4	6.6



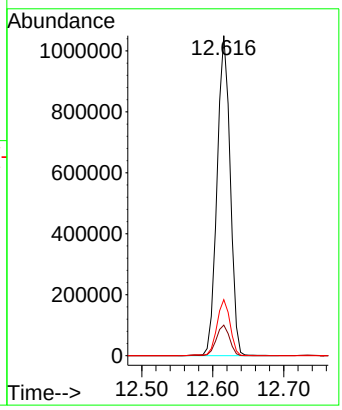


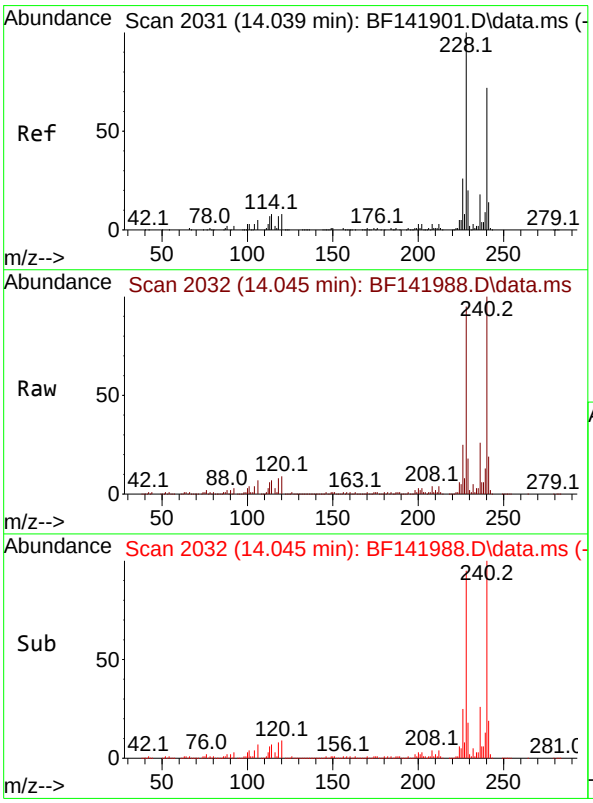
#75
Fluoranthene
Concen: 42.479 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:202 Resp: 1339128

Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	29.7
203	17.5	0.0	37.8

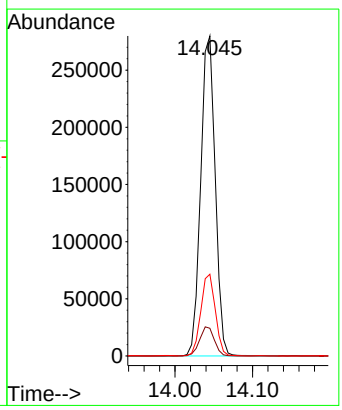


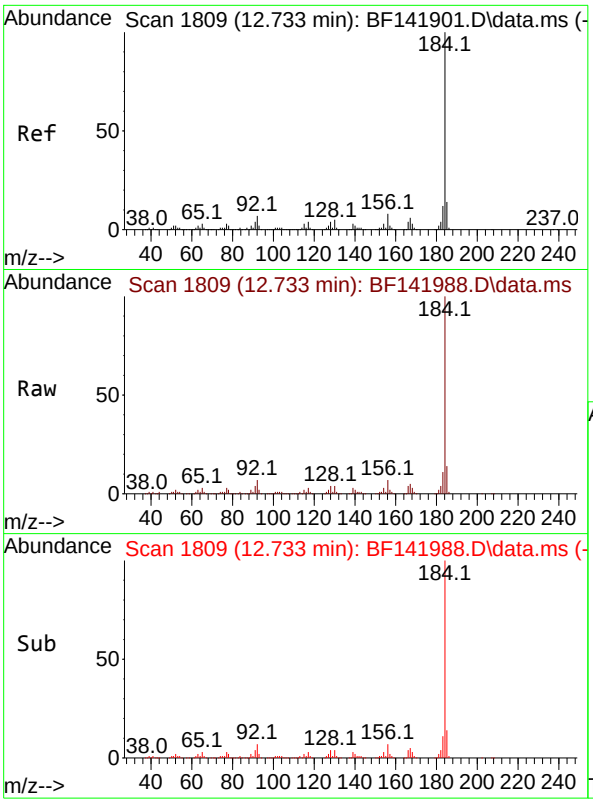


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:240 Resp: 364178

Ion	Ratio	Lower	Upper
240	100		
120	8.6	8.4	12.6
236	25.5	20.5	30.7



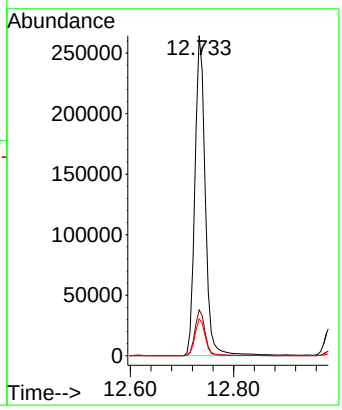


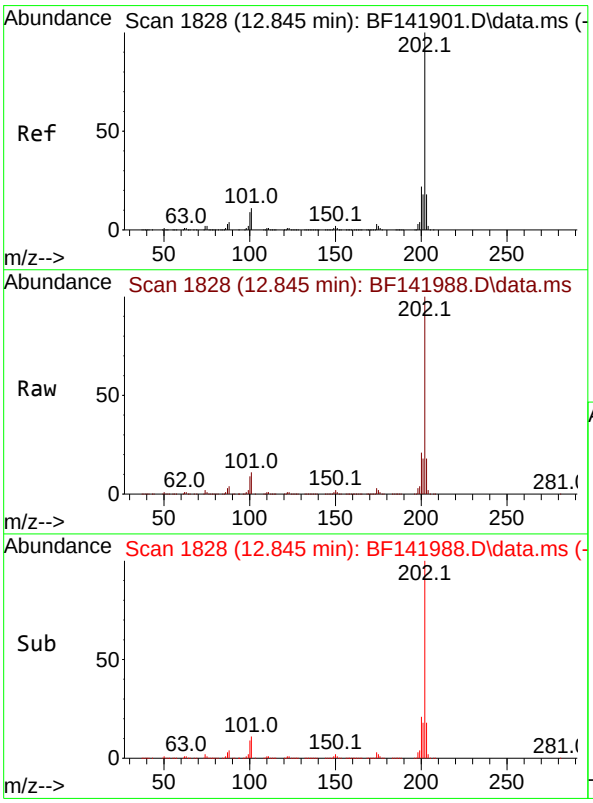
#77
Benzidine
Concen: 72.405 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:184 Resp: 367890

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.5	17.3
183	11.5	9.7	14.5

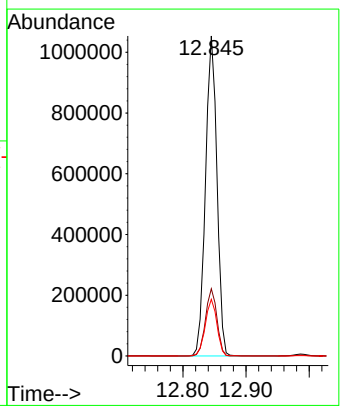


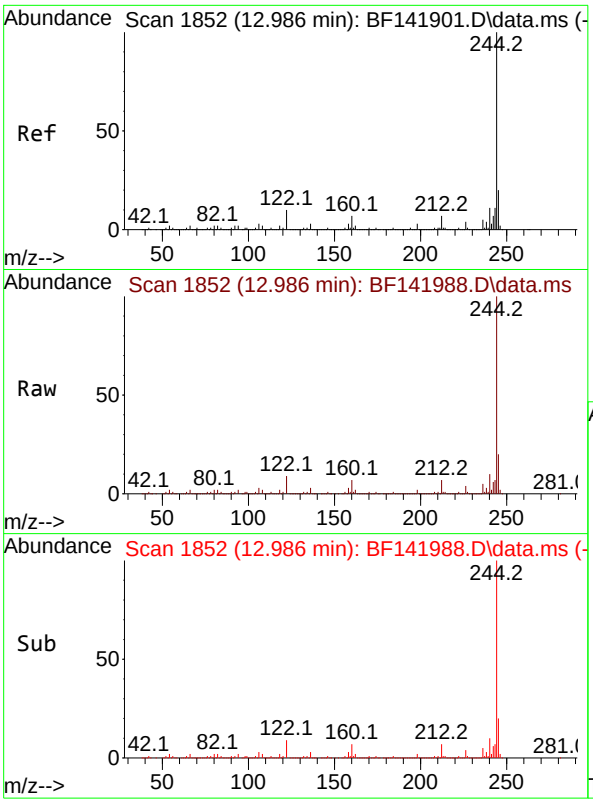


#78
Pyrene
Concen: 42.241 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:202 Resp: 1330654

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.3	25.9
203	17.7	14.4	21.6



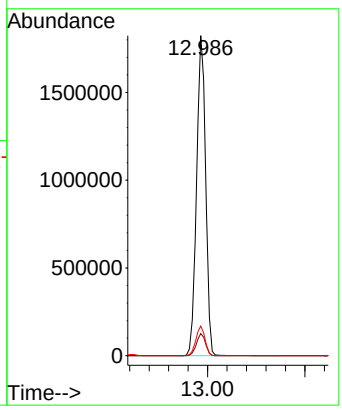


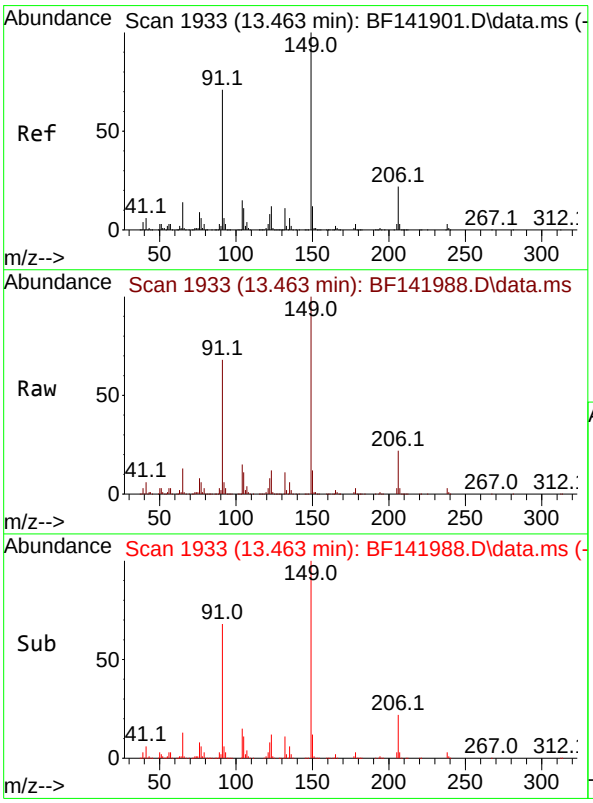
#79
Terphenyl-d14
Concen: 96.185 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:244 Resp: 2369251

Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	9.2	7.7	11.5

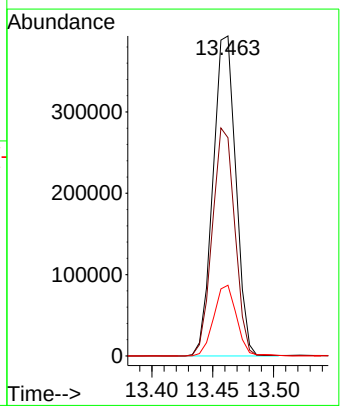


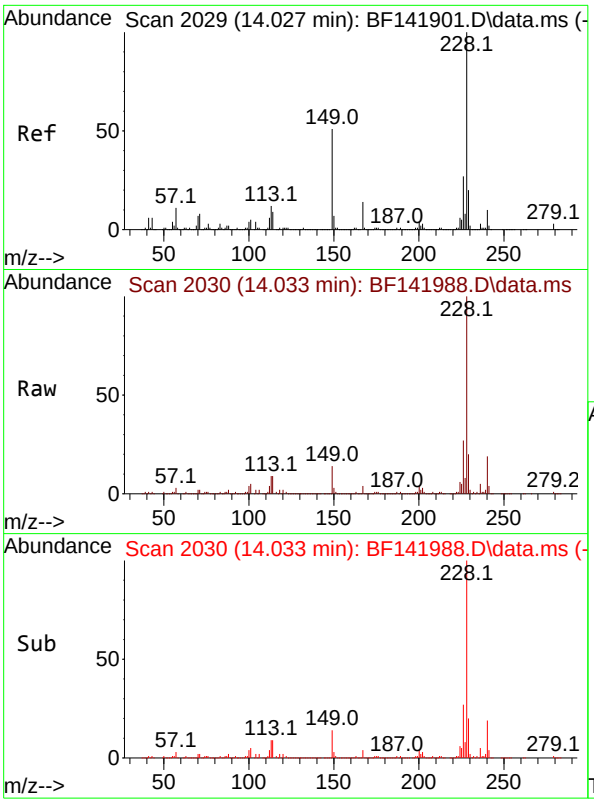


#80
Butylbenzylphthalate
Concen: 41.703 ng
RT: 13.463 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:149 Resp: 514197

Ion	Ratio	Lower	Upper
149	100		
91	68.2	56.5	84.7
206	22.1	17.3	25.9



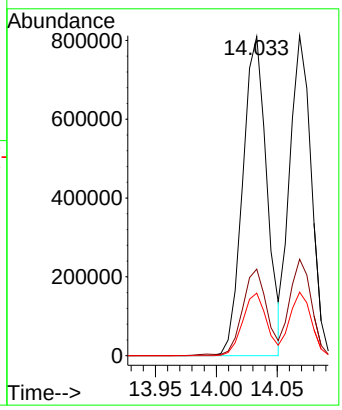


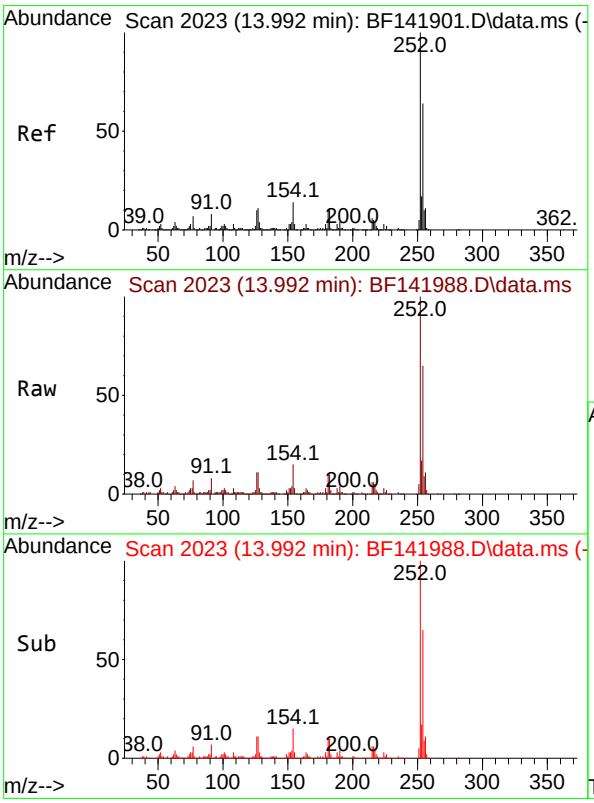
#81
Benzo(a)anthracene
Concen: 46.751 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:228 Resp: 1117238

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.6	16.0	24.0

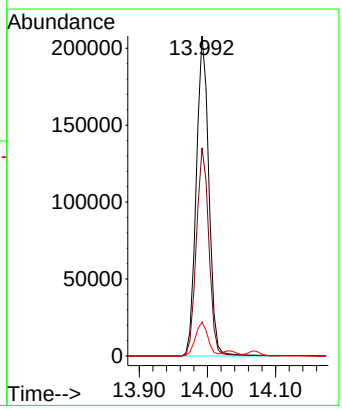


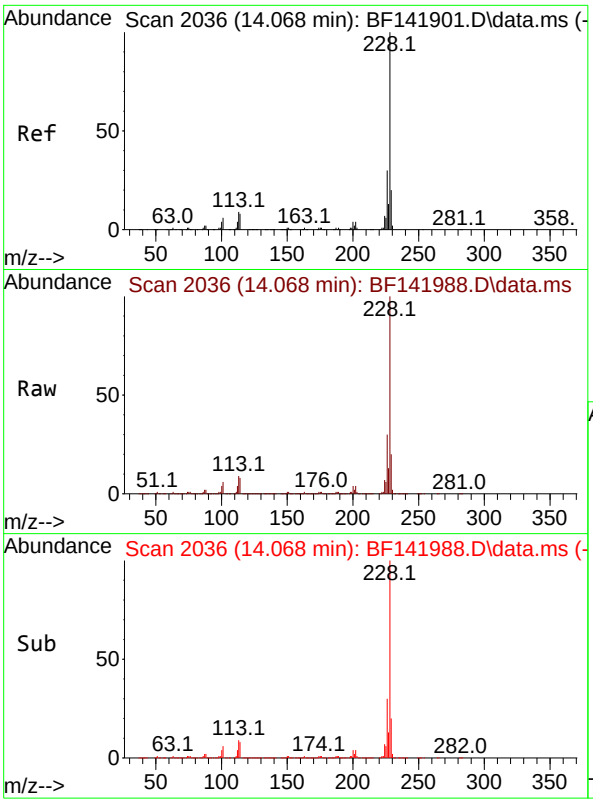


#82
3,3'-Dichlorobenzidine
Concen: 38.409 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:252 Resp: 265251

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.0	76.6
126	10.6	8.4	12.6



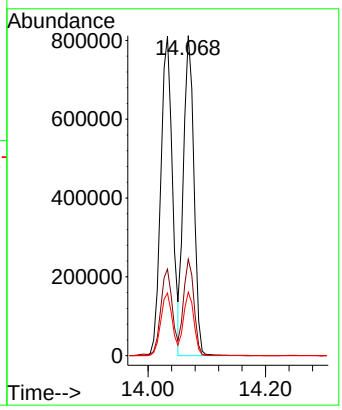


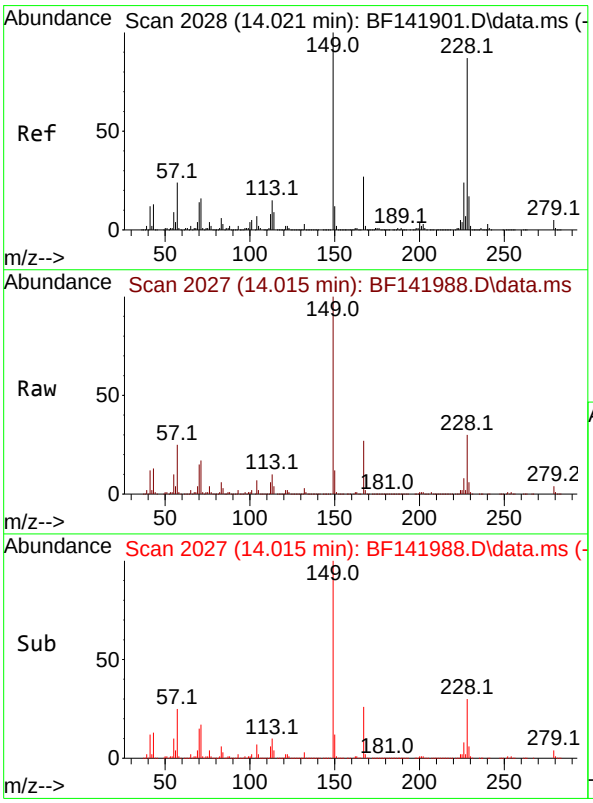
#83
Chrysene
Concen: 46.080 ng
RT: 14.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:228 Resp: 998209

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.1	36.1
229	19.8	15.7	23.5

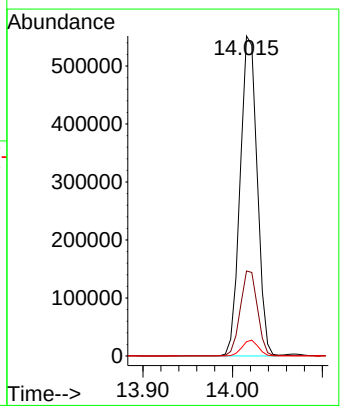


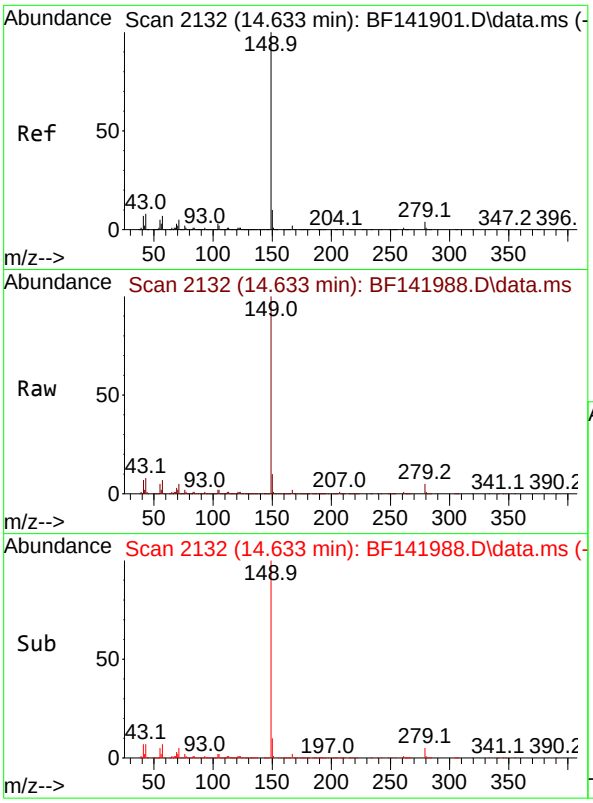


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.841 ng
RT: 14.015 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:149 Resp: 728315

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.0
279	4.5	3.8	5.6



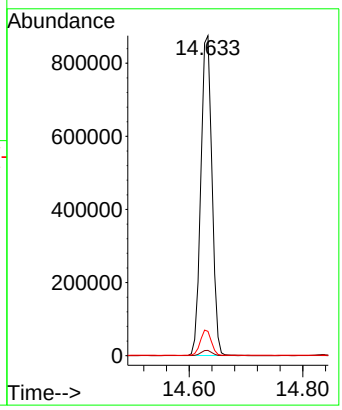


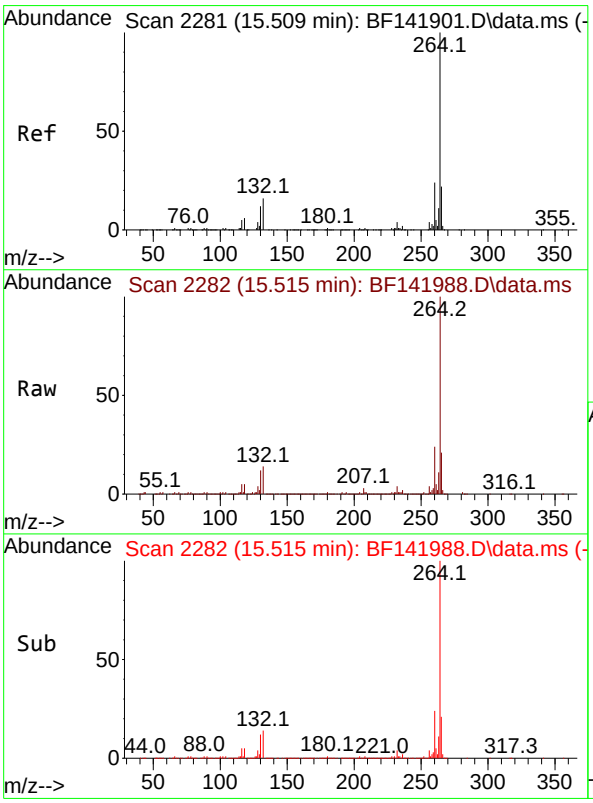
#85
Di-n-octyl phthalate
Concen: 50.266 ng
RT: 14.633 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:149 Resp: 1189008

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.8	6.9	10.3

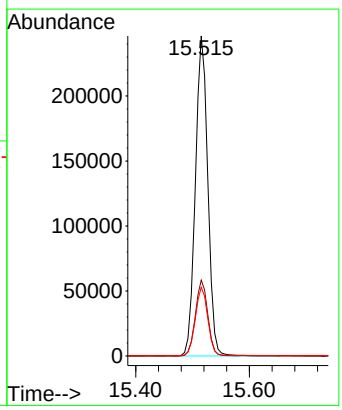


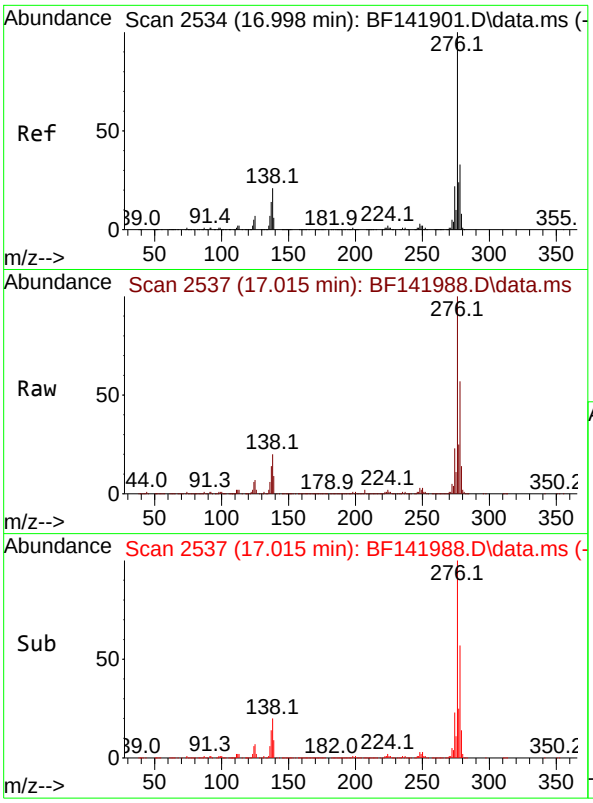


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:264 Resp: 375705

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.1	28.7
265	21.5	17.5	26.3



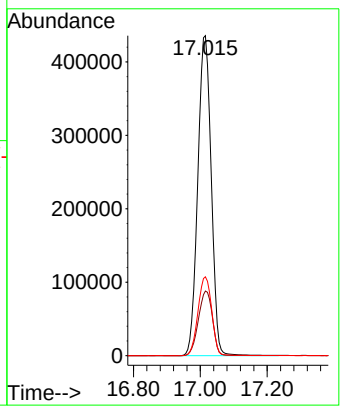


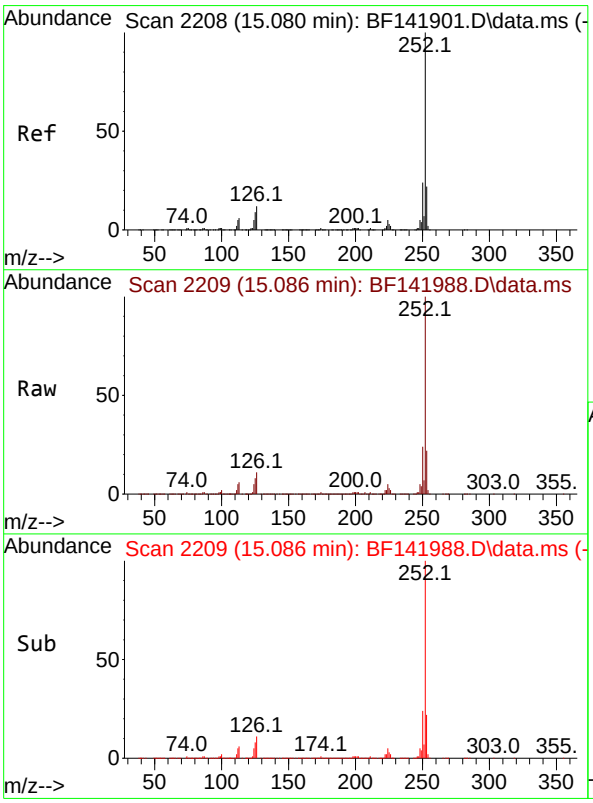
#87
Indeno(1,2,3-cd)pyrene
Concen: 50.004 ng
RT: 17.015 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:276 Resp: 1215297

Ion	Ratio	Lower	Upper
276	100		
138	21.2	18.4	27.6
277	25.3	20.3	30.5

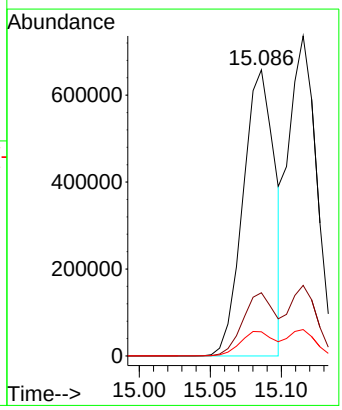


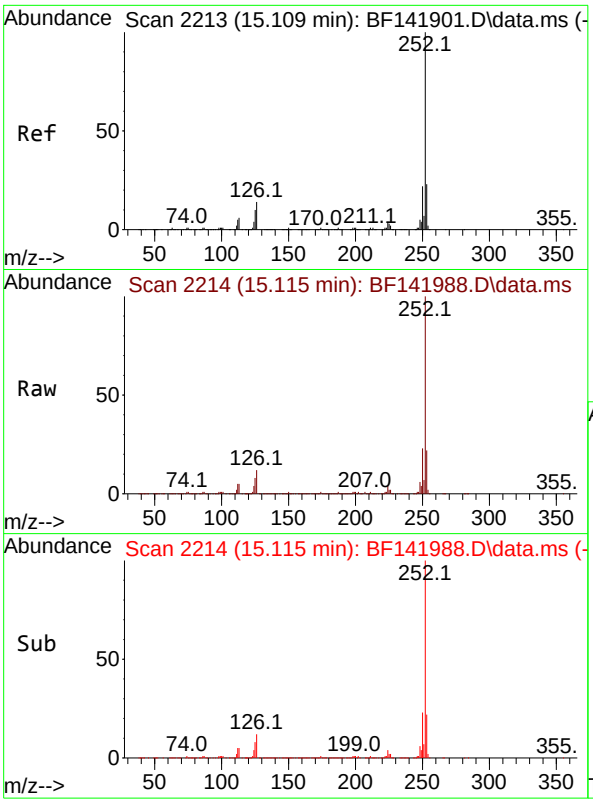


#88
Benzo(b)fluoranthene
Concen: 39.719 ng
RT: 15.086 min Scan# 2209
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:252 Resp: 1022729

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	8.5	7.0	10.4



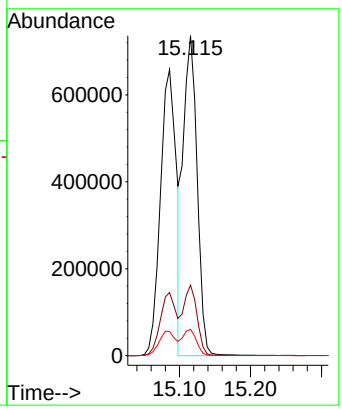


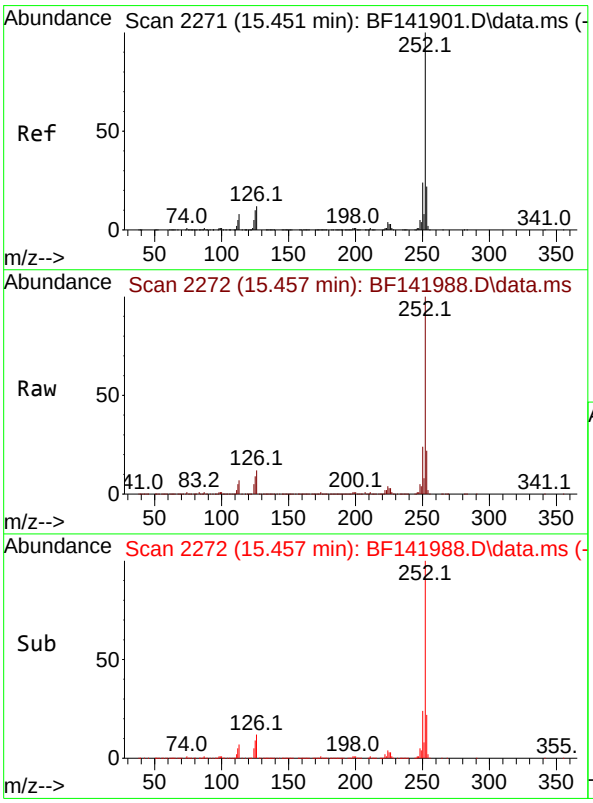
#89
Benzo(k)fluoranthene
Concen: 45.431 ng
RT: 15.115 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:252 Resp: 1001088

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	8.2	7.2	10.8

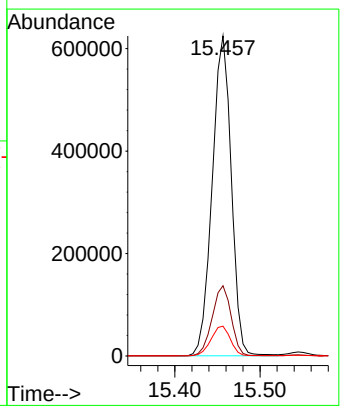


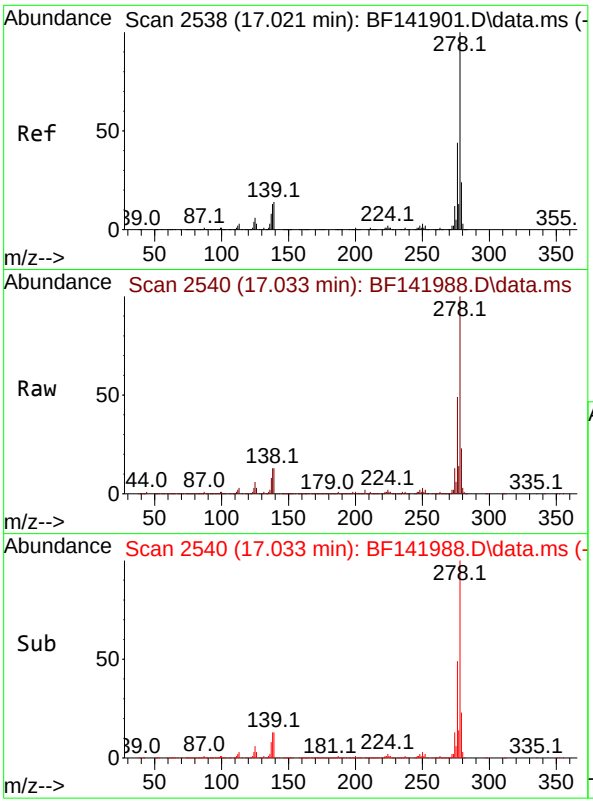


#90
Benzo(a)pyrene
Concen: 48.179 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:252 Resp: 970694

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	9.3	7.8	11.8



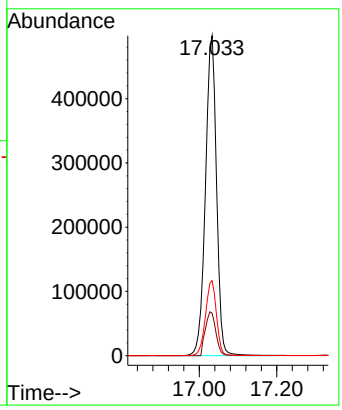


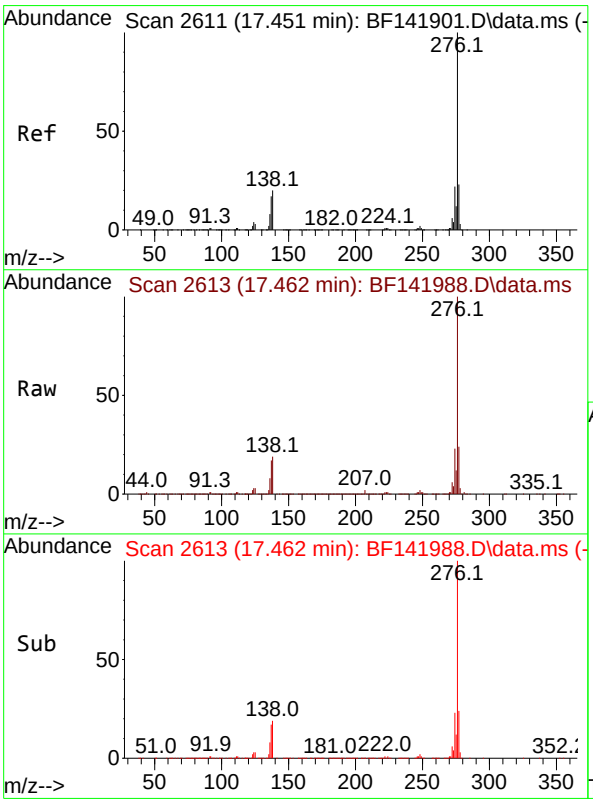
#91
Dibenzo(a,h)anthracene
Concen: 49.287 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Instrument :
BNA_F
ClientSampleId :
PB167168BS

Tgt Ion:278 Resp: 988318

Ion	Ratio	Lower	Upper
278	100		
139	13.3	11.4	17.2
279	23.5	18.8	28.2

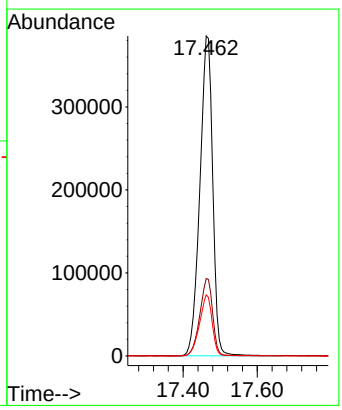




#92
Benzo(g,h,i)perylene
Concen: 46.622 ng
RT: 17.462 min Scan# 2613
Delta R.T. 0.012 min
Lab File: BF141988.D
Acq: 18 Mar 2025 10:59

Tgt Ion:276 Resp: 923868

Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.7	28.1
138	19.1	15.8	23.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141992.D
Acq On : 18 Mar 2025 13:01
Operator : RC/JU
Sample : Q1568-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Quant Time: Mar 18 13:34:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	152727	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	588011	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	327264	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	504077	20.000	ng		0.00
76) Chrysene-d12	14.039	240	334257	20.000	ng		0.00
86) Perylene-d12	15.515	264	409135	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	1136926	124.240	ng		0.02
7) Phenol-d6	6.510	99	1280431	109.896	ng		0.00
23) Nitrobenzene-d5	7.445	82	1008886	96.556	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	594720	143.245	ng		0.00
45) 2-Fluorobiphenyl	9.234	172	2082406	96.770	ng		0.00
79) Terphenyl-d14	12.986	244	1930998	85.410	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.846	88	156699	40.868	ng	#	83
3) Pyridine	3.563	79	300215	31.920	ng		97
4) n-Nitrosodimethylamine	3.487	42	173633	38.728	ng		97
6) Aniline	6.545	93	142434	12.392	ng		98
8) 2-Chlorophenol	6.669	128	439960	43.349	ng		98
9) Benzaldehyde	6.434	77	66556	10.214	ng		100
10) Phenol	6.522	94	427945	34.913	ng		99
11) bis(2-Chloroethyl)ether	6.616	93	400564	43.521	ng		99
12) 1,3-Dichlorobenzene	6.822	146	464963	42.435	ng		99
13) 1,4-Dichlorobenzene	6.898	146	475531	42.894	ng		99
14) 1,2-Dichlorobenzene	7.051	146	452650	43.348	ng		99
15) Benzyl Alcohol	7.022	79	387785	41.169	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	444126	39.969	ng		98
17) 2-Methylphenol	7.128	107	339393	42.058	ng		99
18) Hexachloroethane	7.392	117	176772	42.521	ng		97
19) n-Nitroso-di-n-propyla...	7.292	70	301483	40.270	ng		99
20) 3+4-Methylphenols	7.281	107	423212	40.945	ng	#	85
22) Acetophenone	7.287	105	663243	47.100	ng		97
24) Nitrobenzene	7.463	77	461040	44.385	ng		98
25) Isophorone	7.698	82	832994	45.100	ng		99
26) 2-Nitrophenol	7.775	139	238666	46.815	ng		99
27) 2,4-Dimethylphenol	7.810	122	390542	55.634	ng		99
28) bis(2-Chloroethoxy)met...	7.904	93	511976	44.195	ng		99
29) 2,4-Dichlorophenol	8.016	162	381941	43.834	ng		99
30) 1,2,4-Trichlorobenzene	8.098	180	420277	43.768	ng		98
31) Naphthalene	8.181	128	1309559	43.355	ng		100
32) Benzoic acid	7.922	122	278626	45.153	ng		98
33) 4-Chloroaniline	8.228	127	59797	5.608	ng		98
34) Hexachlorobutadiene	8.298	225	285735	45.629	ng		99
35) Caprolactam	8.592	113	70494	26.537	ng		94
36) 4-Chloro-3-methylphenol	8.710	107	411335	42.320	ng		98
37) 2-Methylnaphthalene	8.875	142	855032	42.350	ng		99
38) 1-Methylnaphthalene	8.975	142	819498	42.063	ng		99
40) 1,2,4,5-Tetrachloroben...	9.039	216	499037	50.085	ng		98
41) Hexachlorocyclopentadiene	9.028	237	599566	153.756	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	291587	44.778	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141992.D
Acq On : 18 Mar 2025 13:01
Operator : RC/JU
Sample : Q1568-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Quant Time: Mar 18 13:34:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	301802	45.761	ng		99
46) 1,1'-Biphenyl	9.339	154	1223225	49.193	ng		100
47) 2-Chloronaphthalene	9.363	162	835177	45.062	ng		98
48) 2-Nitroaniline	9.457	65	231642	43.166	ng		97
49) Acenaphthylene	9.781	152	1304148	47.417	ng		99
50) Dimethylphthalate	9.634	163	1003942	43.807	ng		100
51) 2,6-Dinitrotoluene	9.698	165	218594	45.811	ng		91
52) Acenaphthene	9.951	154	975716	50.481	ng		98
53) 3-Nitroaniline	9.863	138	59186	12.228	ng		96
54) 2,4-Dinitrophenol	9.975	184	246349	89.973	ng	#	46
55) Dibenzofuran	10.122	168	1177594	42.639	ng		99
56) 4-Nitrophenol	10.022	139	287055	78.642	ng		98
57) 2,4-Dinitrotoluene	10.104	165	285453	45.803	ng		95
58) Fluorene	10.463	166	927784	43.562	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	262341	43.713	ng		96
60) Diethylphthalate	10.333	149	965154	42.236	ng		100
61) 4-Chlorophenyl-phenyle...	10.457	204	490233	44.150	ng		96
62) 4-Nitroaniline	10.481	138	170182	36.115	ng		97
63) Azobenzene	10.616	77	856245	40.302	ng		97
65) 4,6-Dinitro-2-methylph...	10.510	198	149599	49.783	ng		96
66) n-Nitrosodiphenylamine	10.575	169	784826	48.113	ng		100
67) 4-Bromophenyl-phenylether	10.945	248	310869	49.106	ng		98
68) Hexachlorobenzene	11.010	284	353910	50.972	ng		97
69) Atrazine	11.098	200	287531	57.499	ng		99
70) Pentachlorophenol	11.204	266	405413	94.768	ng		99
71) Phenanthrene	11.428	178	1275909	46.862	ng		99
72) Anthracene	11.480	178	1305550	47.795	ng		100
73) Carbazole	11.633	167	981674	41.672	ng		100
74) Di-n-butylphthalate	11.963	149	1327416	42.467	ng		99
75) Fluoranthene	12.616	202	1149890	39.814	ng		99
77) Benzidine	12.733	184	64248	13.777	ng		98
78) Pyrene	12.845	202	1139056	39.395	ng		99
80) Butylbenzylphthalate	13.457	149	456006	40.294	ng		98
81) Benzo(a)anthracene	14.027	228	1046091	47.692	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	143508	22.640	ng		99
83) Chrysene	14.069	228	902529	45.393	ng		100
84) Bis(2-ethylhexyl)phtha...	14.016	149	660288	42.317	ng		99
85) Di-n-octyl phthalate	14.633	149	1189713	54.798	ng		98
87) Indeno(1,2,3-cd)pyrene	17.015	276	1355219	51.205	ng		98
88) Benzo(b)fluoranthene	15.080	252	1146744	40.896	ng		99
89) Benzo(k)fluoranthene	15.116	252	1038112	43.262	ng		99
90) Benzo(a)pyrene	15.457	252	1064045	48.497	ng		99
91) Dibenzo(a,h)anthracene	17.033	278	1112019	50.924	ng		99
92) Benzo(g,h,i)perylene	17.468	276	1004916	46.569	ng		98

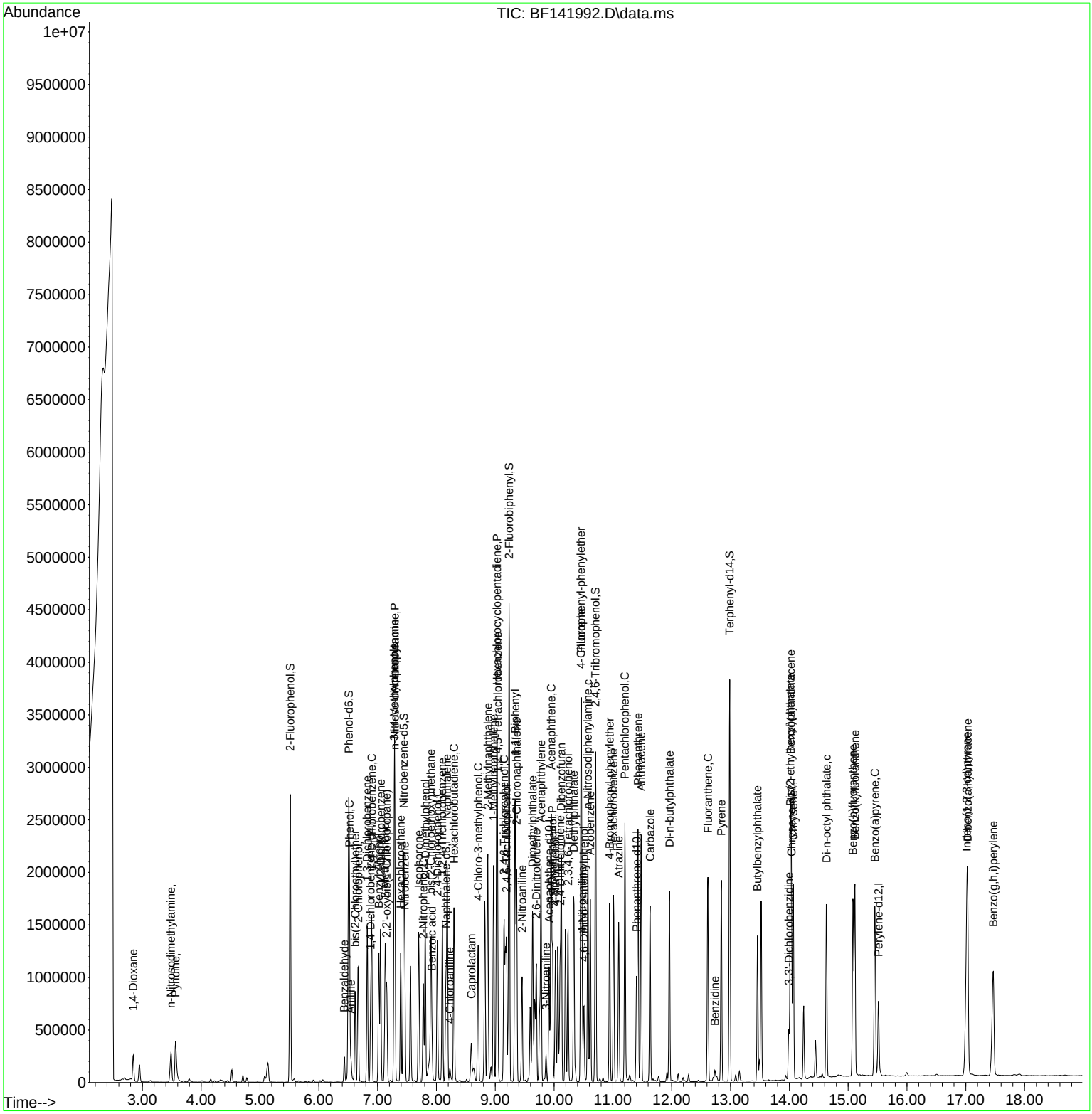
(#) = qualifier out of range (m) = manual integration (+) = signals summed

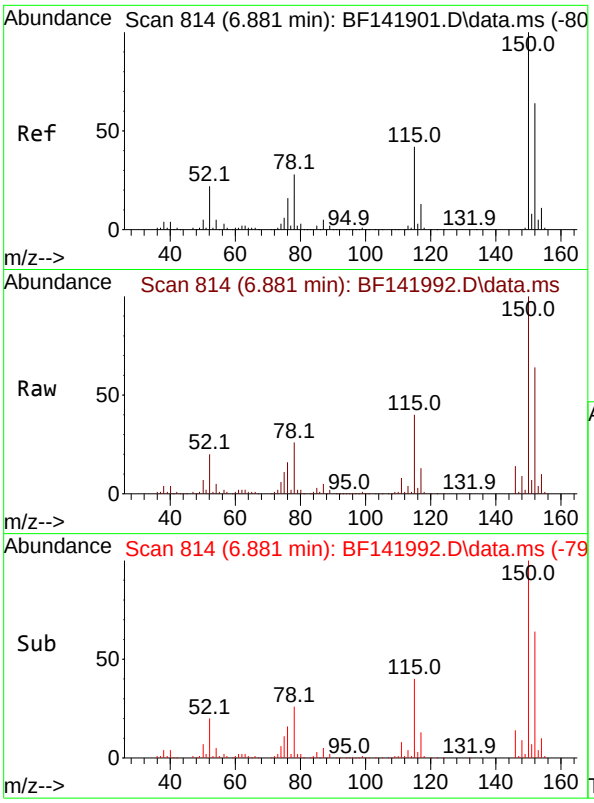
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141992.D
Acq On : 18 Mar 2025 13:01
Operator : RC/JU
Sample : Q1568-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Quant Time: Mar 18 13:34:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration



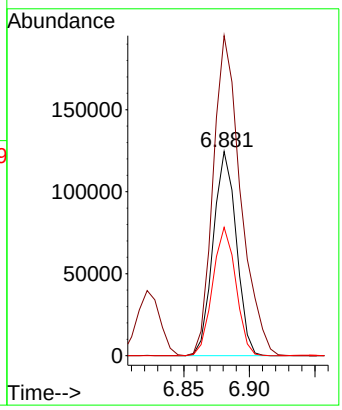


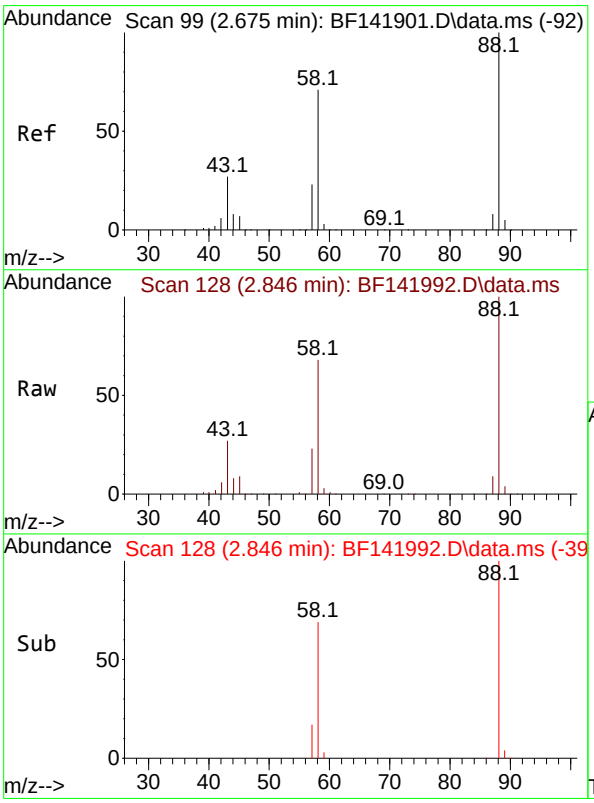
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:152 Resp: 152727

Ion	Ratio	Lower	Upper
152	100		
150	156.7	127.4	191.2
115	62.9	51.9	77.9

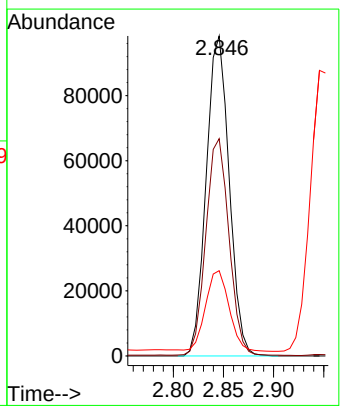


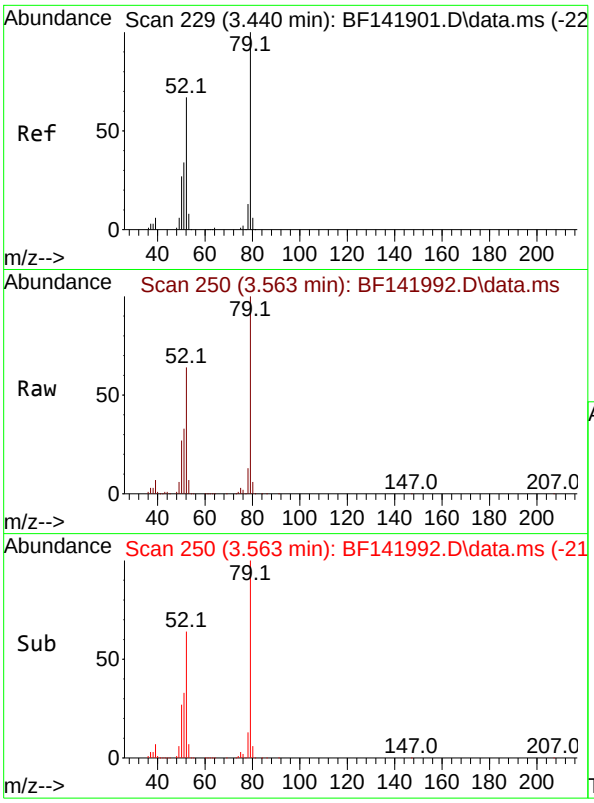


#2
1,4-Dioxane
Concen: 40.868 ng
RT: 2.846 min Scan# 128
Delta R.T. 0.171 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 88 Resp: 156699

Ion	Ratio	Lower	Upper
88	100		
58	68.3	57.4	86.2
43	0.0	21.5	32.3#



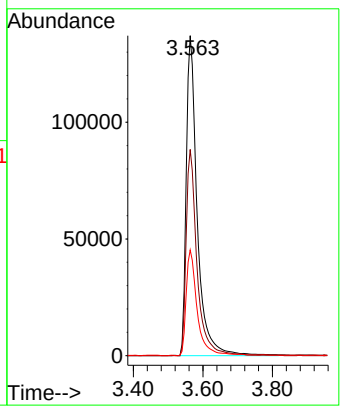


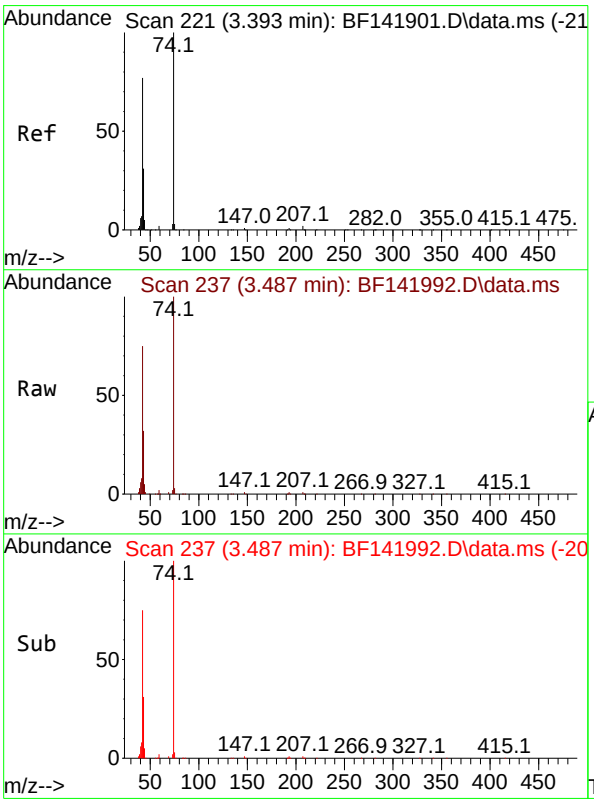
#3
Pyridine
Concen: 31.920 ng
RT: 3.563 min Scan# 2
Delta R.T. 0.124 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion: 79 Resp: 300215

Ion	Ratio	Lower	Upper
79	100		
52	64.5	53.3	79.9
51	33.1	27.6	41.4

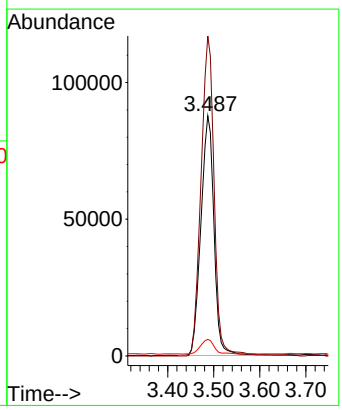


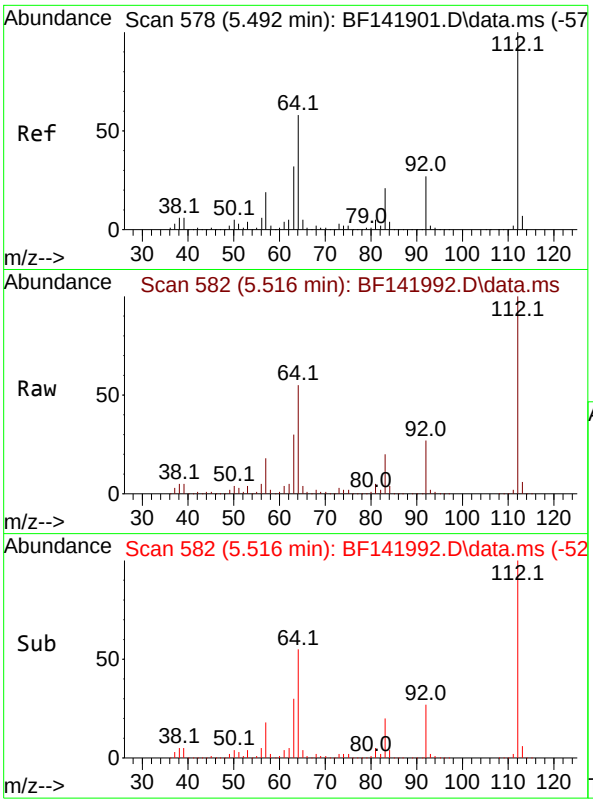


#4
n-Nitrosodimethylamine
Concen: 38.728 ng
RT: 3.487 min Scan# 237
Delta R.T. 0.094 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 42 Resp: 173633

Ion	Ratio	Lower	Upper
42	100		
74	133.2	103.4	155.0
44	6.9	5.0	7.4



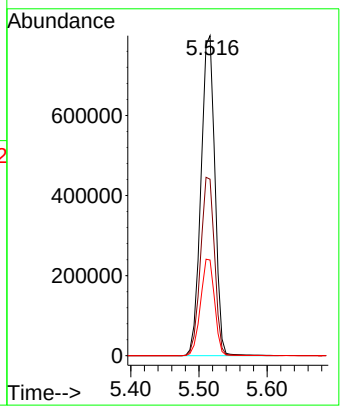


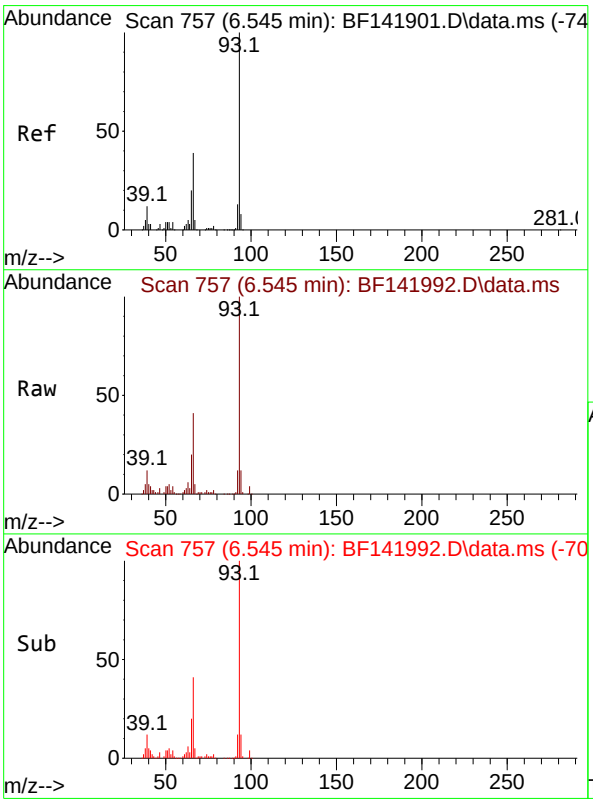
#5
2-Fluorophenol
Concen: 124.240 ng
RT: 5.516 min Scan# 5
Delta R.T. 0.024 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:112 Resp: 1136926

Ion	Ratio	Lower	Upper
112	100		
64	55.2	46.5	69.7
63	29.9	25.4	38.2

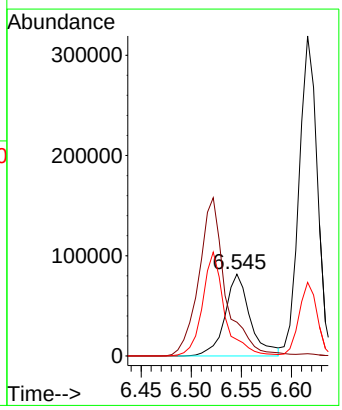


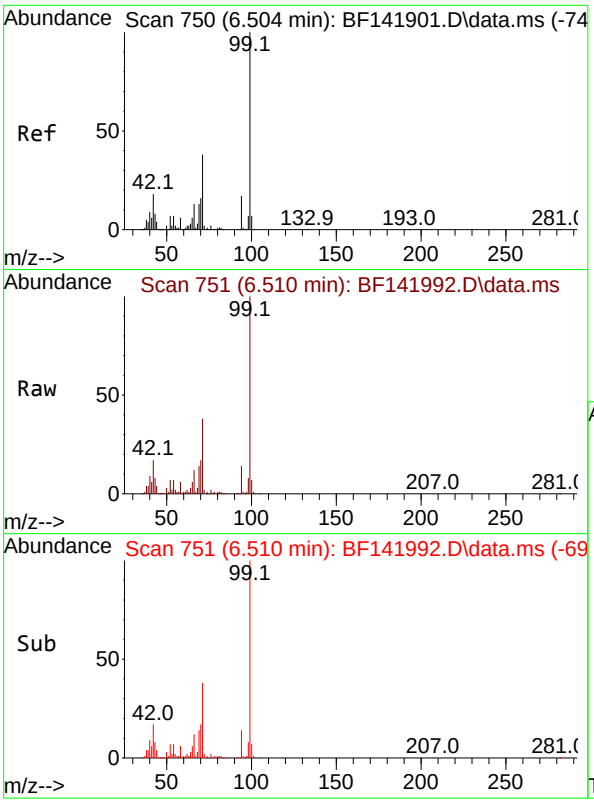


#6
Aniline
Concen: 12.392 ng
RT: 6.545 min Scan# 757
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 93 Resp: 142434

Ion	Ratio	Lower	Upper
93	100		
66	41.4	31.9	47.9
65	20.1	15.8	23.6



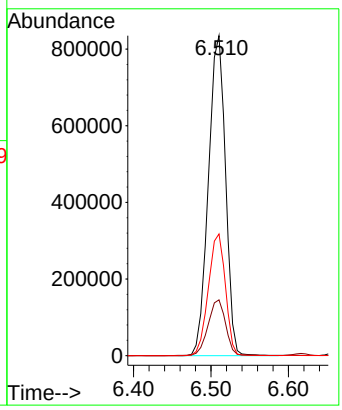


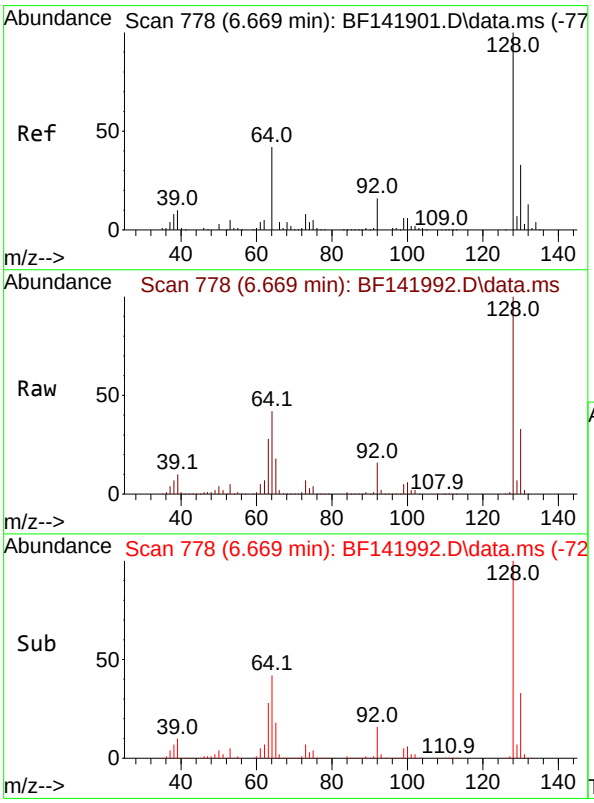
#7
Phenol-d6
Concen: 109.896 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion: 99 Resp: 1280431

Ion	Ratio	Lower	Upper
99	100		
42	17.5	14.6	21.8
71	38.1	30.8	46.2

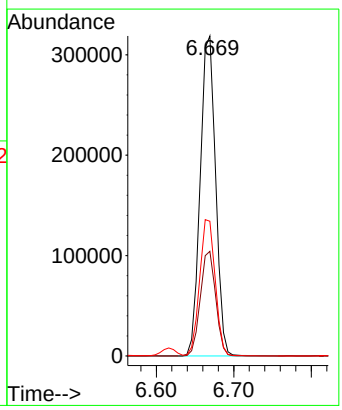


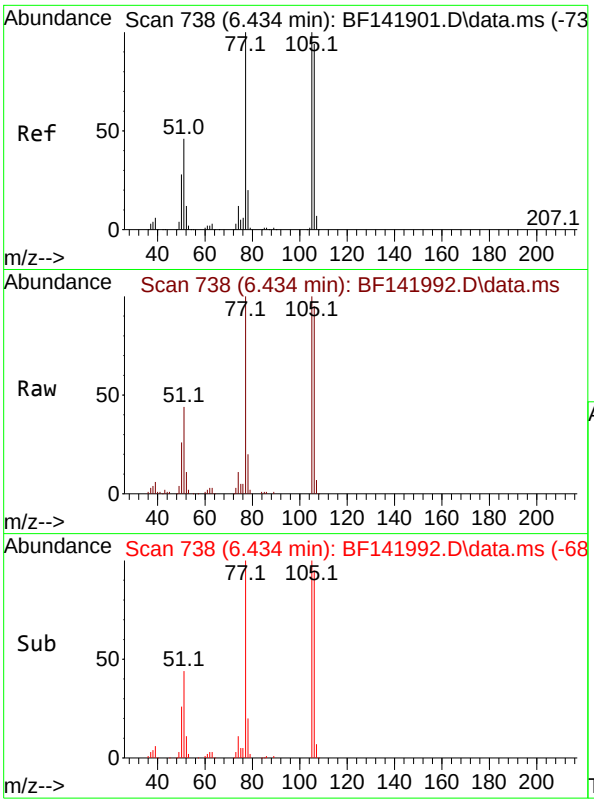


#8
2-Chlorophenol
Concen: 43.349 ng
RT: 6.669 min Scan# 778
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:128 Resp: 439960

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.8	52.8
64	42.1	24.4	64.4



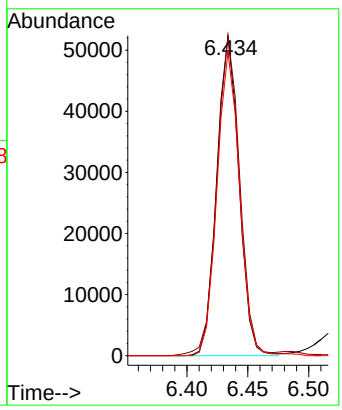


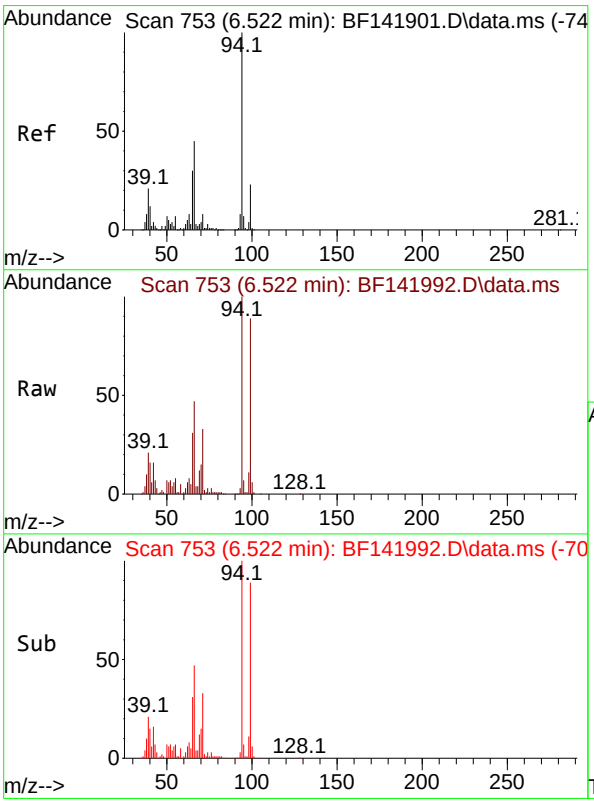
#9
Benzaldehyde
Concen: 10.214 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion: 77 Resp: 66556

Ion	Ratio	Lower	Upper
77	100		
105	100.2	80.0	120.0
106	95.1	74.5	114.5

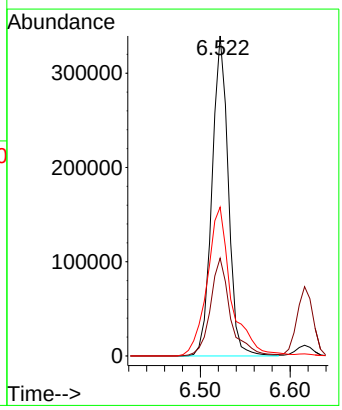


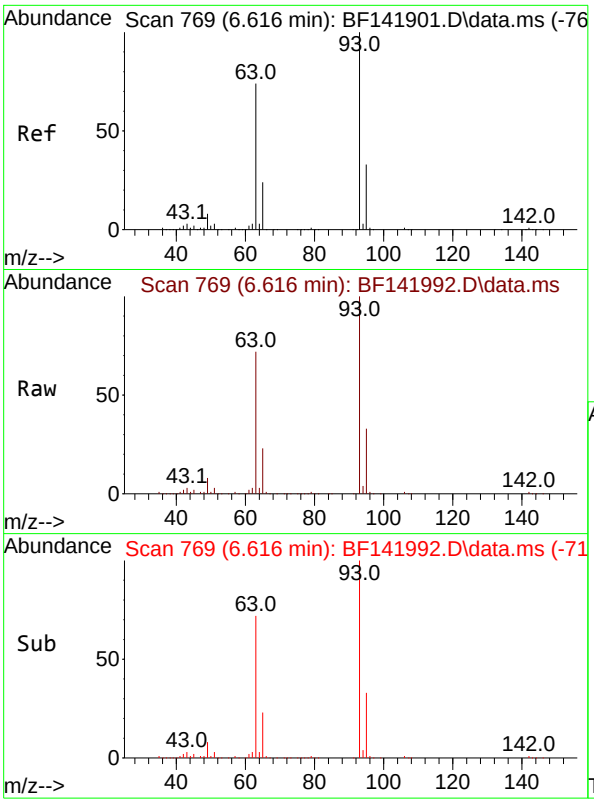


#10
Phenol
Concen: 34.913 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 94 Resp: 427945

Ion	Ratio	Lower	Upper
94	100		
65	30.5	10.5	50.5
66	46.5	25.8	65.8



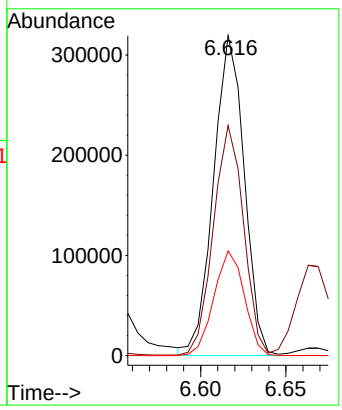


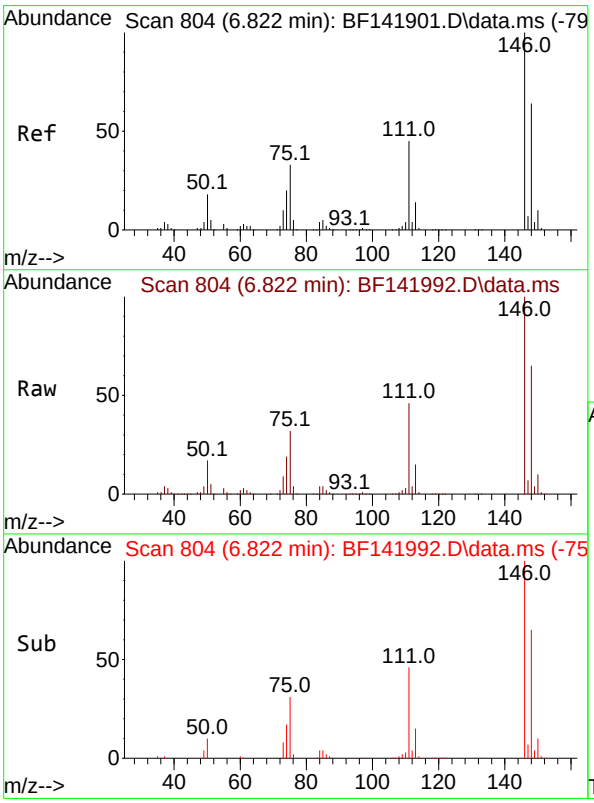
#11
bis(2-Chloroethyl)ether
Concen: 43.521 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion: 93 Resp: 400564

Ion	Ratio	Lower	Upper
93	100		
63	71.9	53.0	93.0
95	32.7	12.9	52.9

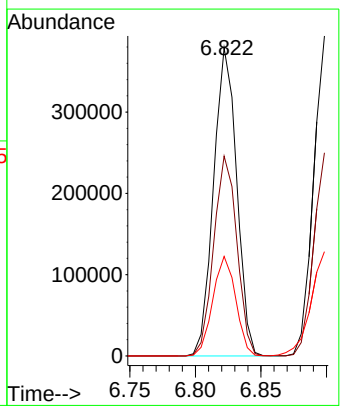


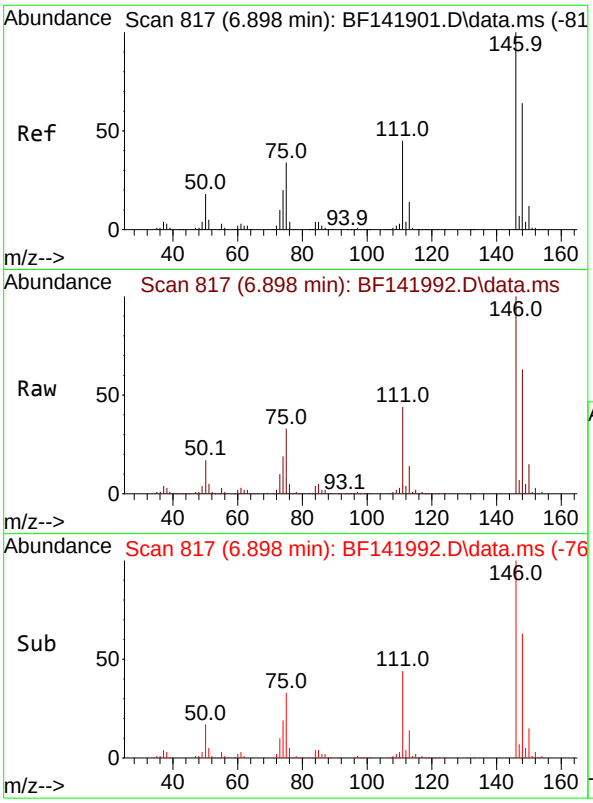


#12
1,3-Dichlorobenzene
Concen: 42.435 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:146 Resp: 464963

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.3	76.9
75	32.3	26.6	40.0



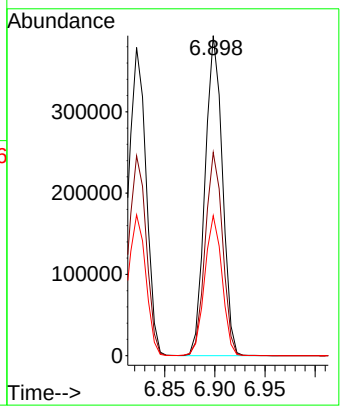


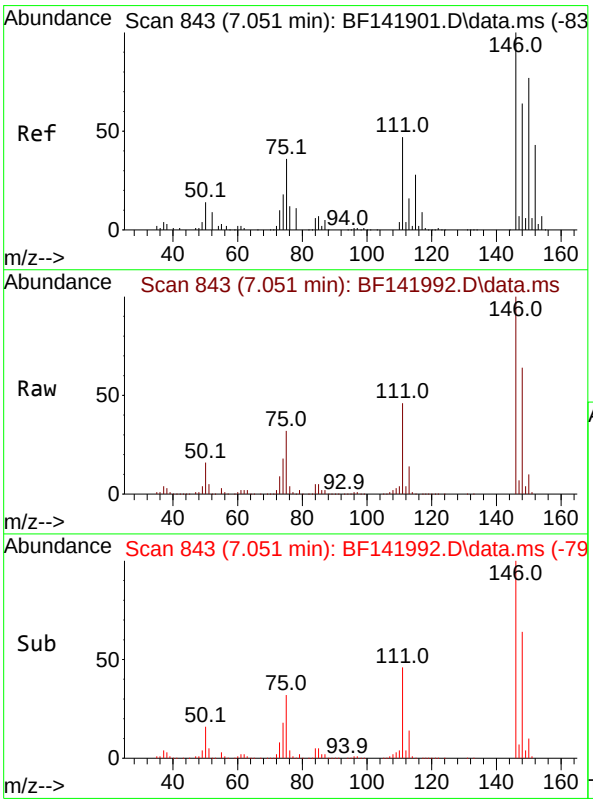
#13
1,4-Dichlorobenzene
Concen: 42.894 ng
RT: 6.898 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:146 Resp: 475531

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.0	76.6
111	43.7	35.7	53.5

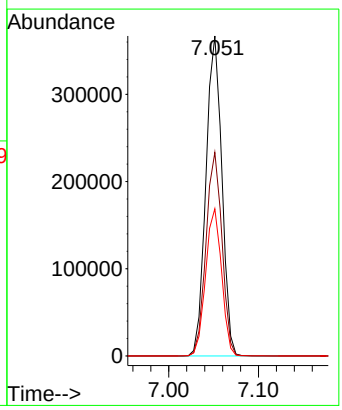


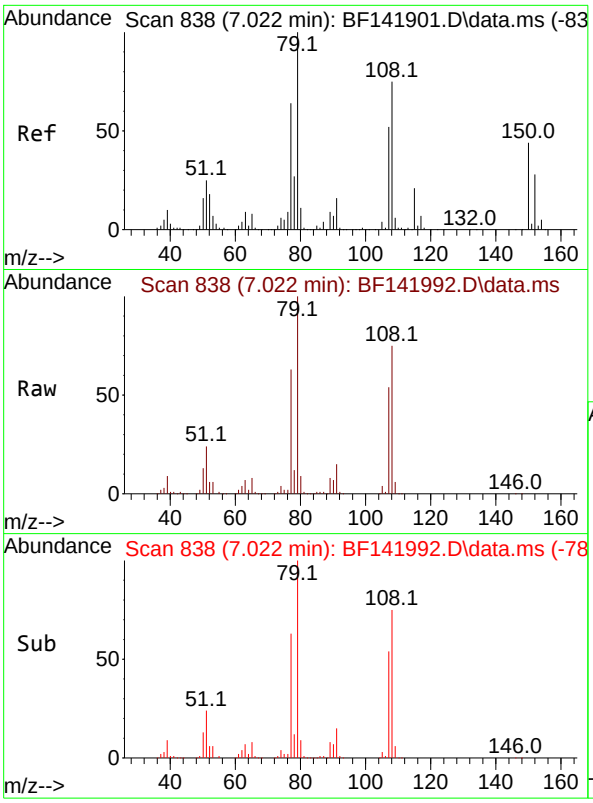


#14
1,2-Dichlorobenzene
Concen: 43.348 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:146 Resp: 452650

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.8	76.2
111	46.0	38.0	57.0



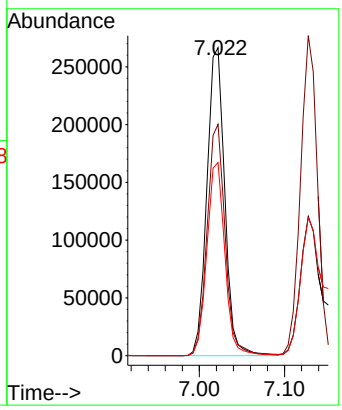


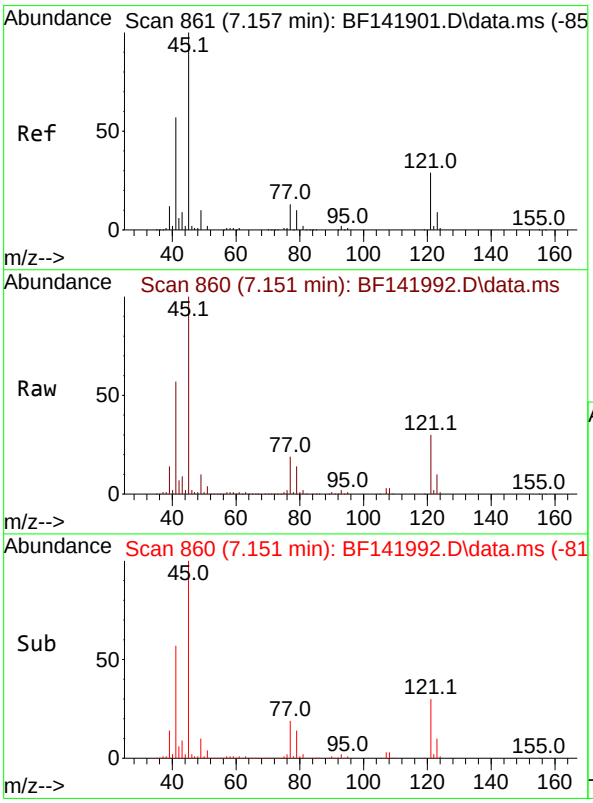
#15
Benzyl Alcohol
Concen: 41.169 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion: 79 Resp: 387785

Ion	Ratio	Lower	Upper
79	100		
108	75.1	59.7	89.5
77	62.7	51.0	76.6

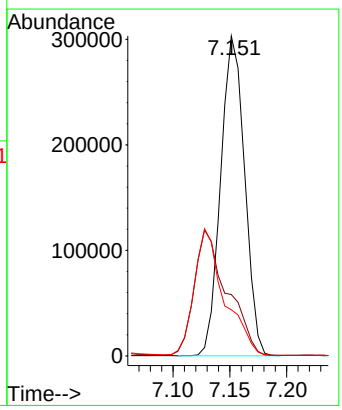


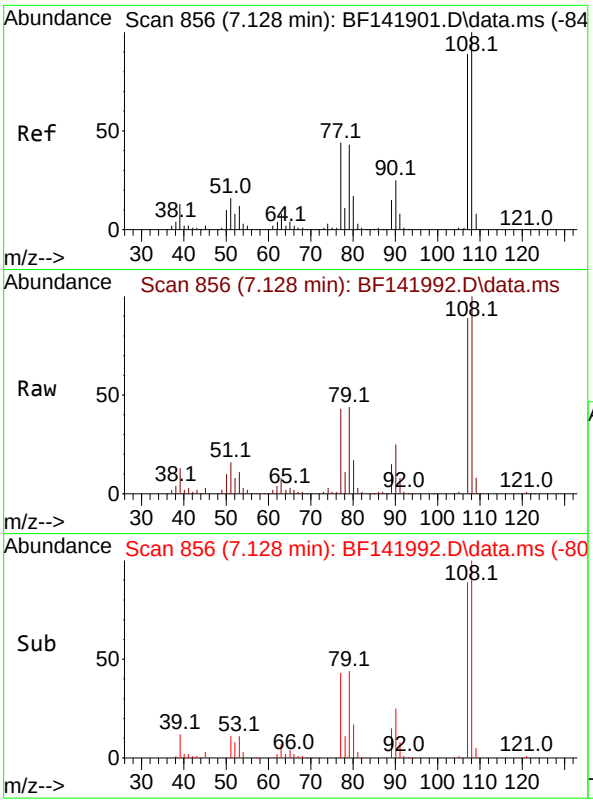


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.969 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 45 Resp: 444126

Ion	Ratio	Lower	Upper
45	100		
77	19.2	0.0	37.8
79	14.5	0.0	34.2



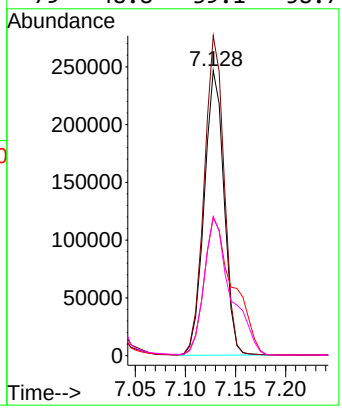


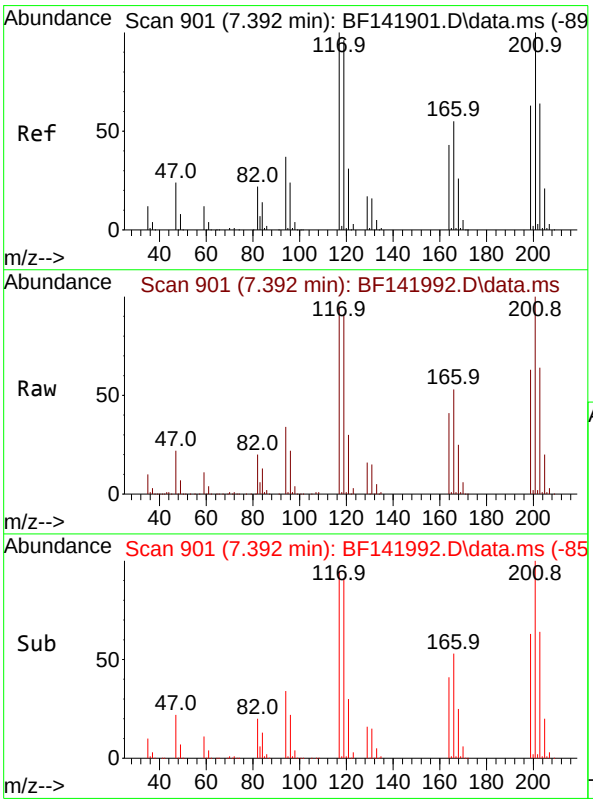
#17
2-Methylphenol
Concen: 42.058 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:107 Resp: 339393

Ion	Ratio	Lower	Upper
107	100		
108	112.2	90.2	135.2
77	48.3	39.6	59.4
79	48.8	39.1	58.7

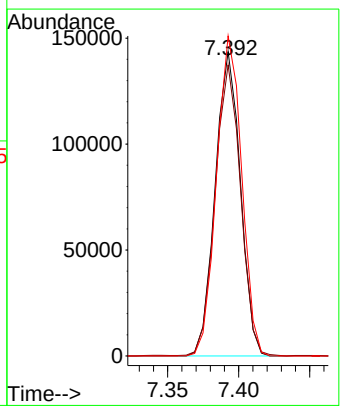


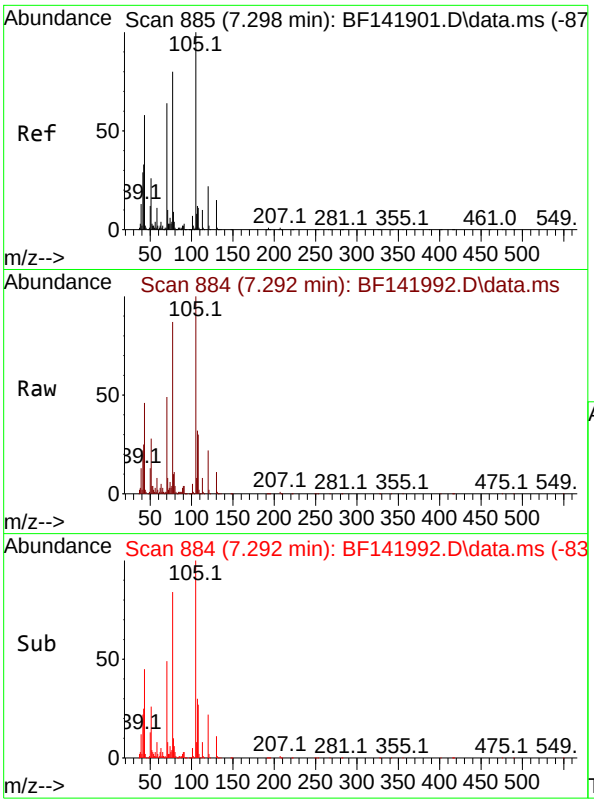


#18
Hexachloroethane
Concen: 42.521 ng
RT: 7.392 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:117 Resp: 176772

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.9	115.3
201	105.2	79.9	119.9



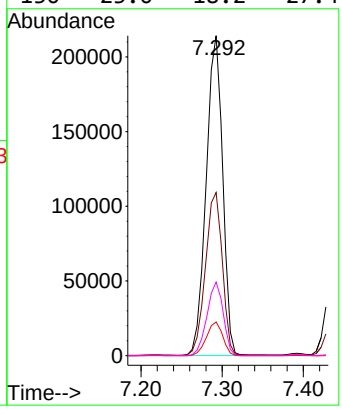


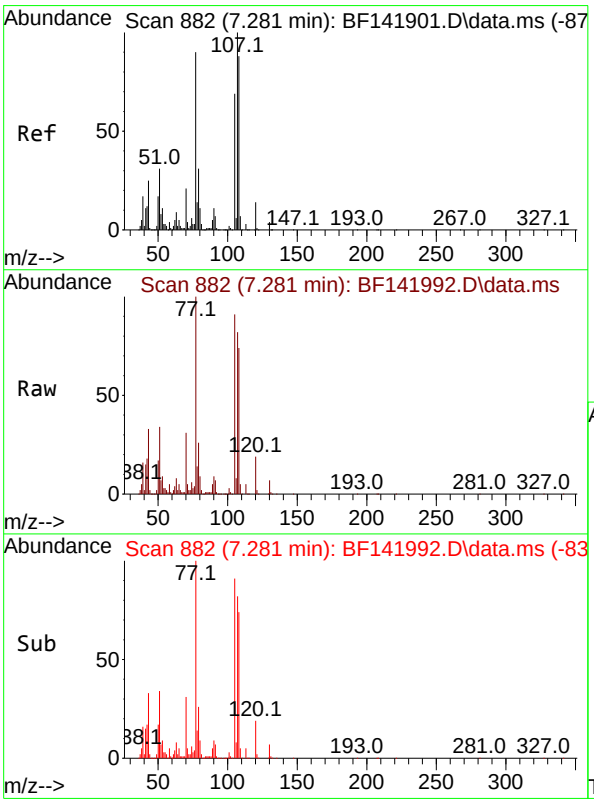
#19
n-Nitroso-di-n-propylamine
Concen: 40.270 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion: 70 Resp: 301483

Ion	Ratio	Lower	Upper
70	100		
42	51.0	41.4	62.0
101	10.6	8.2	12.2
130	23.0	18.2	27.4

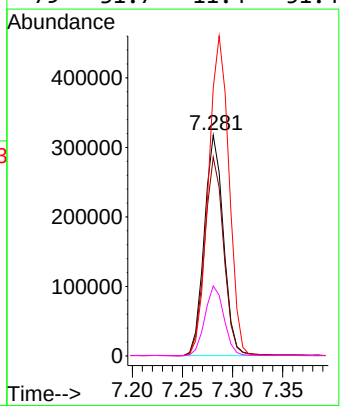


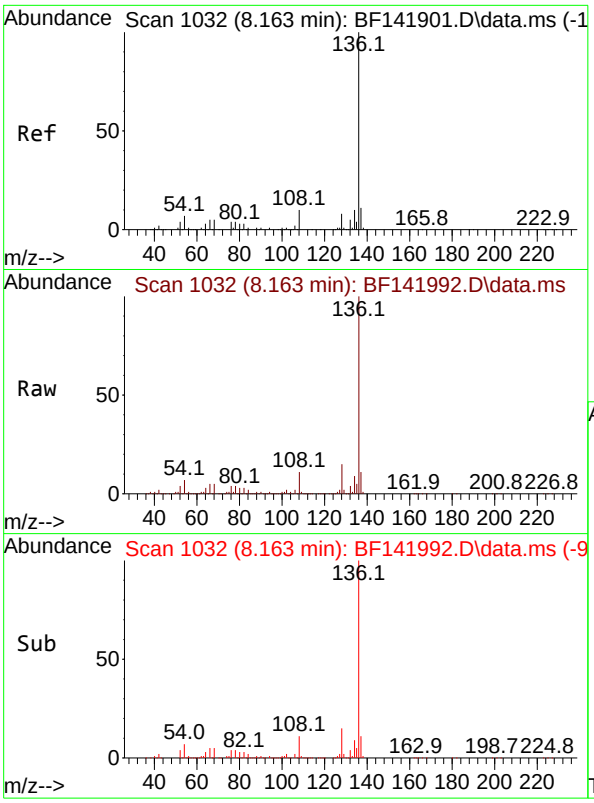


#20
3+4-Methylphenols
Concen: 40.945 ng
RT: 7.281 min Scan# 882
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:107 Resp: 423212

Ion	Ratio	Lower	Upper
107	100		
108	90.0	68.4	108.4
77	121.4	69.7	109.7#
79	31.7	11.4	51.4



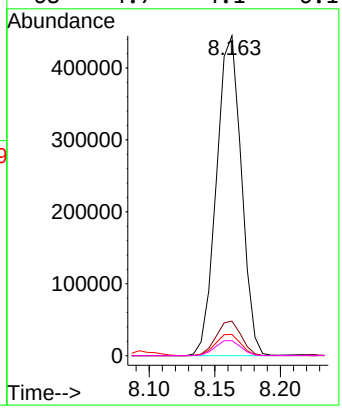


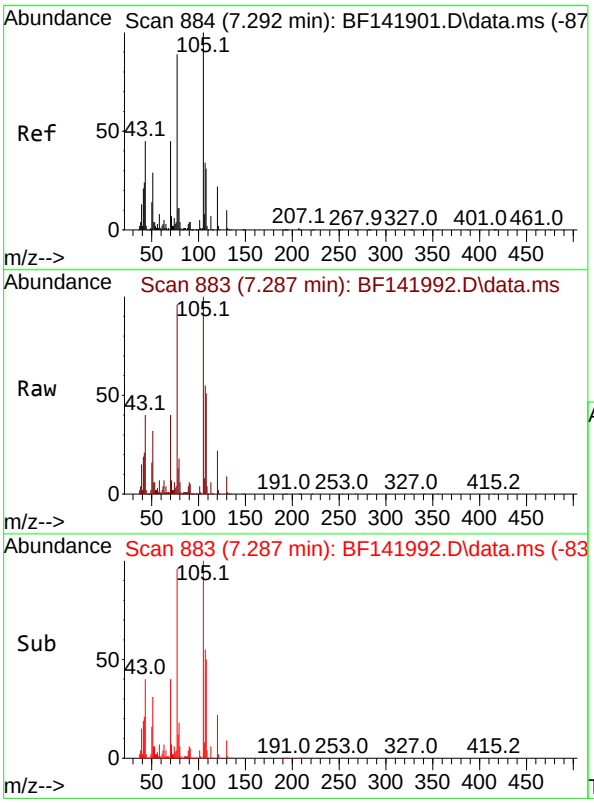
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:136 Resp: 588011

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	6.6	5.8	8.8
68	4.7	4.1	6.1

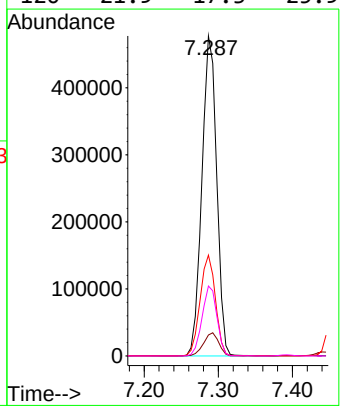


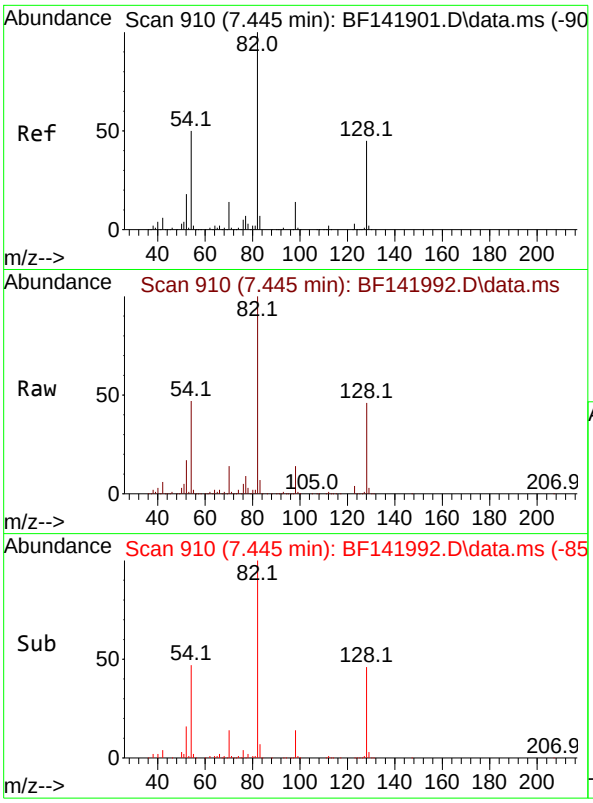


#22
Acetophenone
Concen: 47.100 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:105 Resp: 663243

Ion	Ratio	Lower	Upper
105	100		
71	6.5	5.8	8.8
51	31.5	23.4	35.0
120	21.9	17.3	25.9



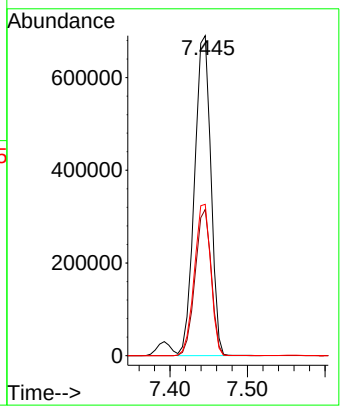


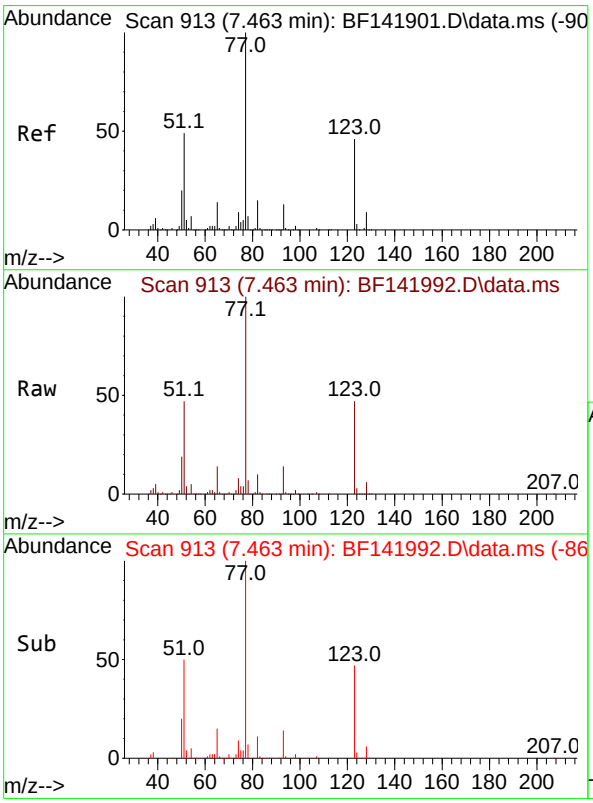
#23
Nitrobenzene-d5
Concen: 96.556 ng
RT: 7.445 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion: 82 Resp: 1008886

Ion	Ratio	Lower	Upper
82	100		
128	45.7	36.0	54.0
54	47.3	39.6	59.4

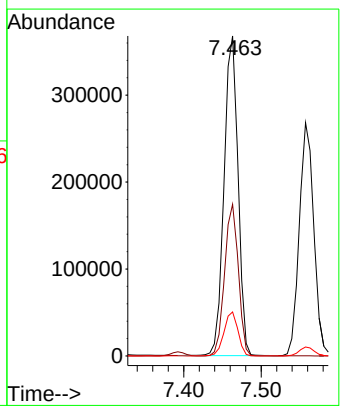


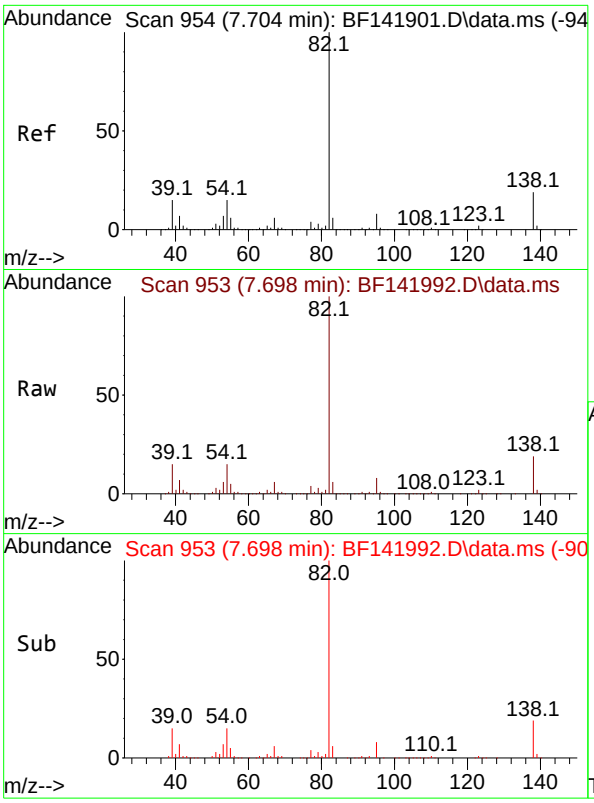


#24
Nitrobenzene
Concen: 44.385 ng
RT: 7.463 min Scan# 913
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 77 Resp: 461040

Ion	Ratio	Lower	Upper
77	100		
123	47.4	37.0	55.4
65	13.7	11.3	16.9



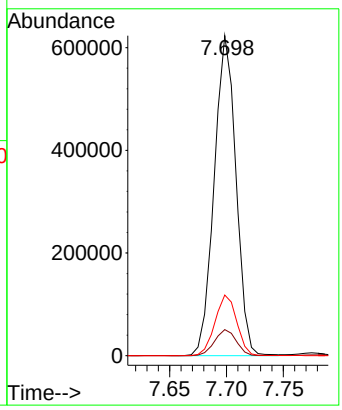


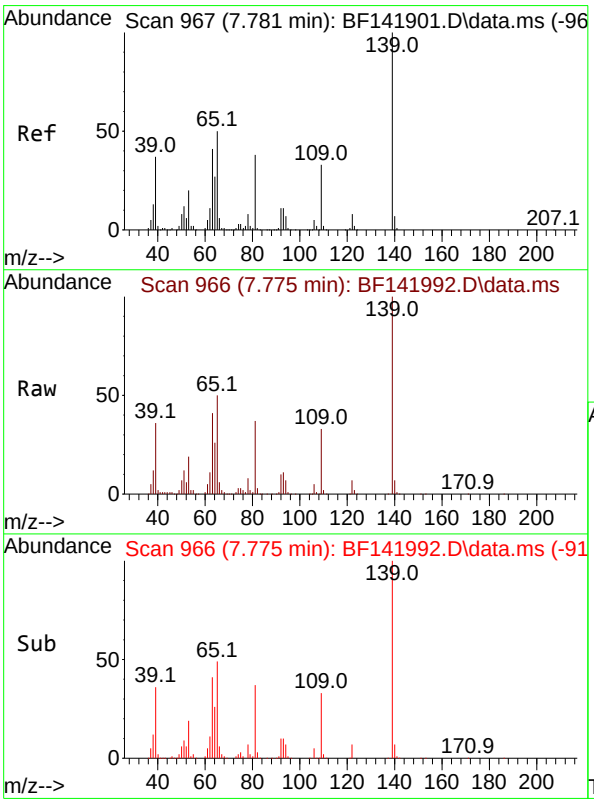
#25
Isophorone
Concen: 45.100 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion: 82 Resp: 832994

Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.4	9.6
138	18.9	14.9	22.3

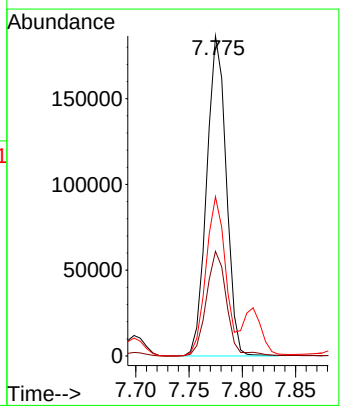


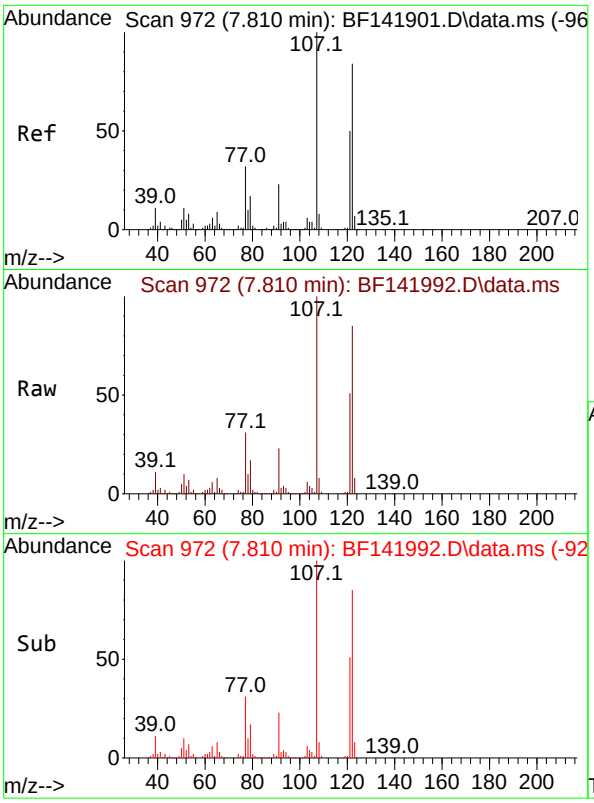


#26
2-Nitrophenol
Concen: 46.815 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:139 Resp: 238666

Ion	Ratio	Lower	Upper
139	100		
109	32.7	26.5	39.7
65	49.8	40.3	60.5



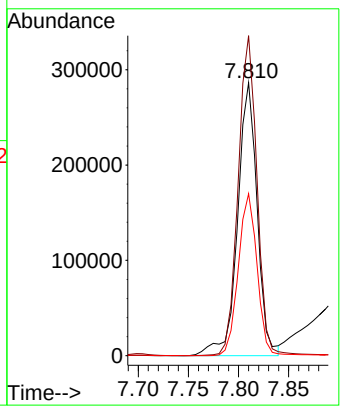


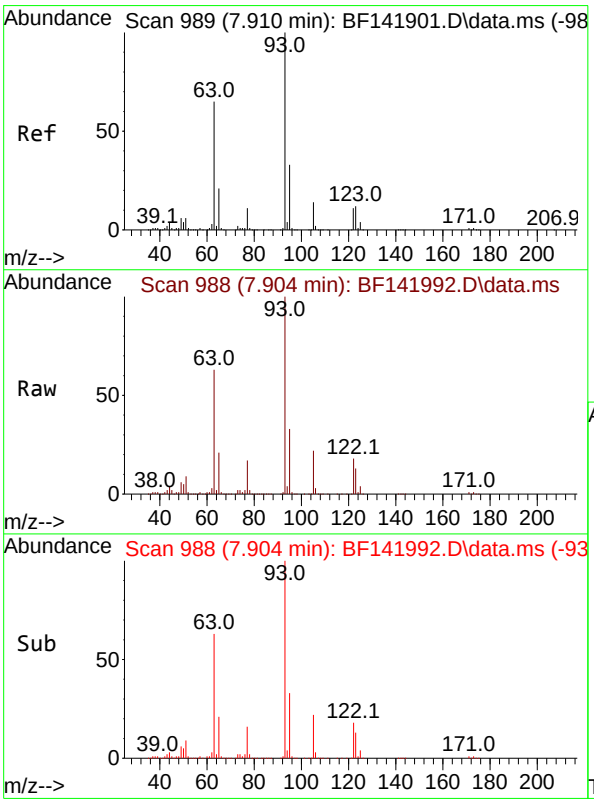
#27
2,4-Dimethylphenol
Concen: 55.634 ng
RT: 7.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:122 Resp: 390542

Ion	Ratio	Lower	Upper
122	100		
107	117.2	94.8	142.2
121	59.3	47.8	71.6

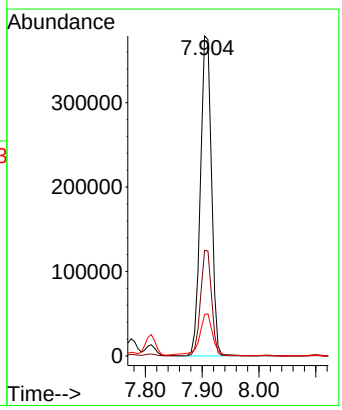


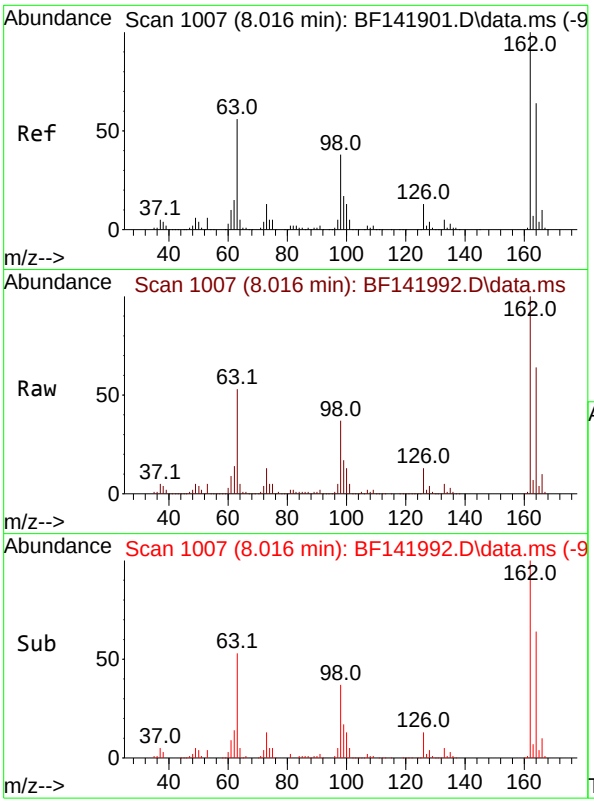


#28
bis(2-Chloroethoxy)methane
Concen: 44.195 ng
RT: 7.904 min Scan# 988
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 93 Resp: 511976

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.6	40.0
123	13.0	10.2	15.4



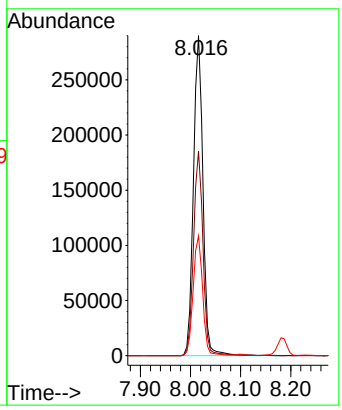


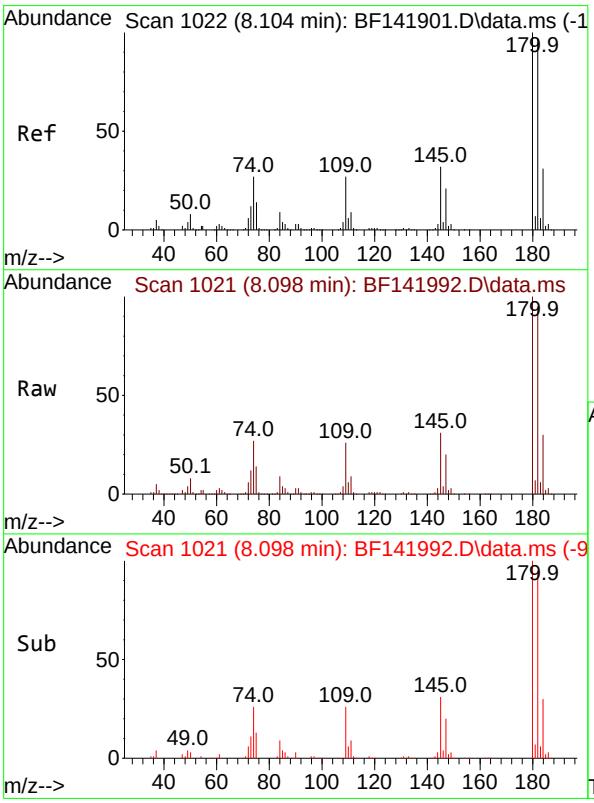
#29
2,4-Dichlorophenol
Concen: 43.834 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:162 Resp: 381941

Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.8	83.8
98	37.4	18.1	58.1

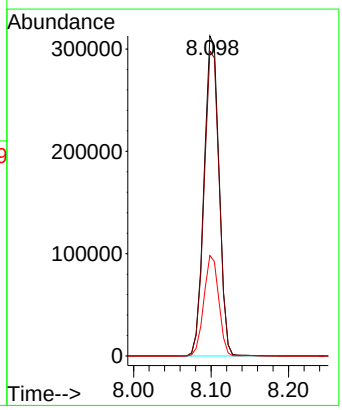


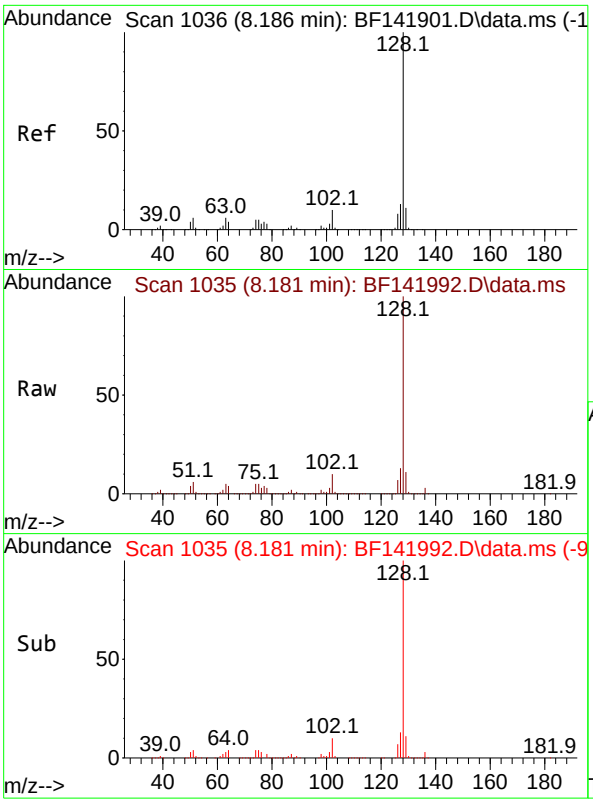


#30
1,2,4-Trichlorobenzene
Concen: 43.768 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:180 Resp: 420277

Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.5	116.3
145	31.4	25.8	38.6



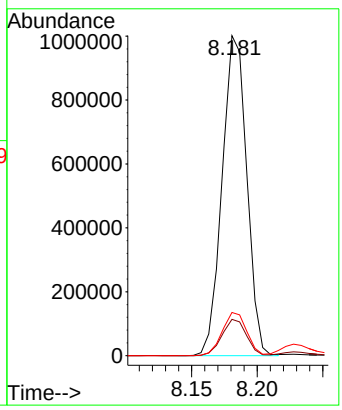


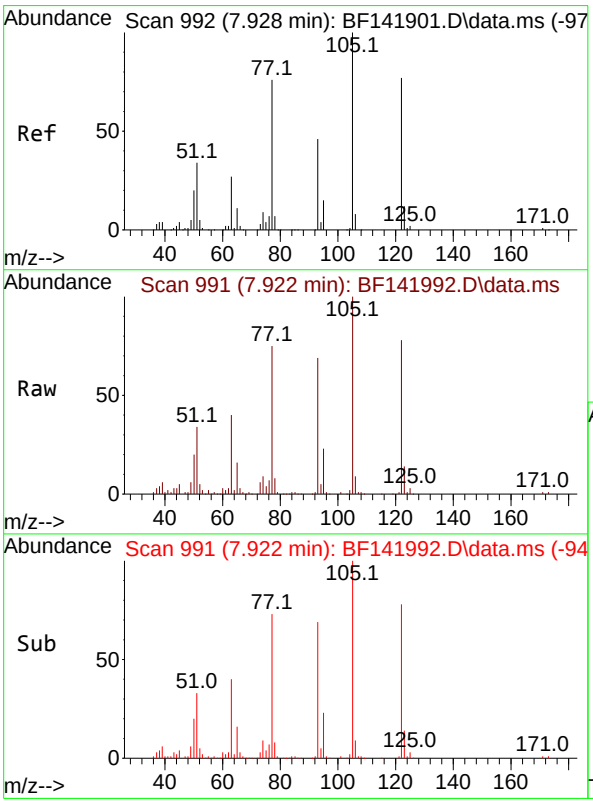
#31
Naphthalene
Concen: 43.355 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:128 Resp: 1309559

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.6
127	13.5	10.8	16.2

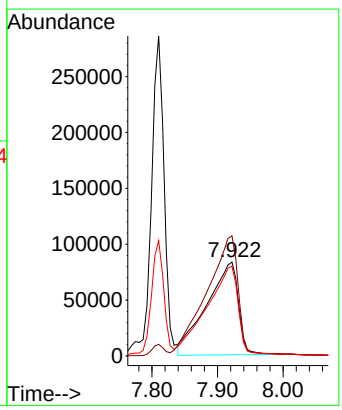


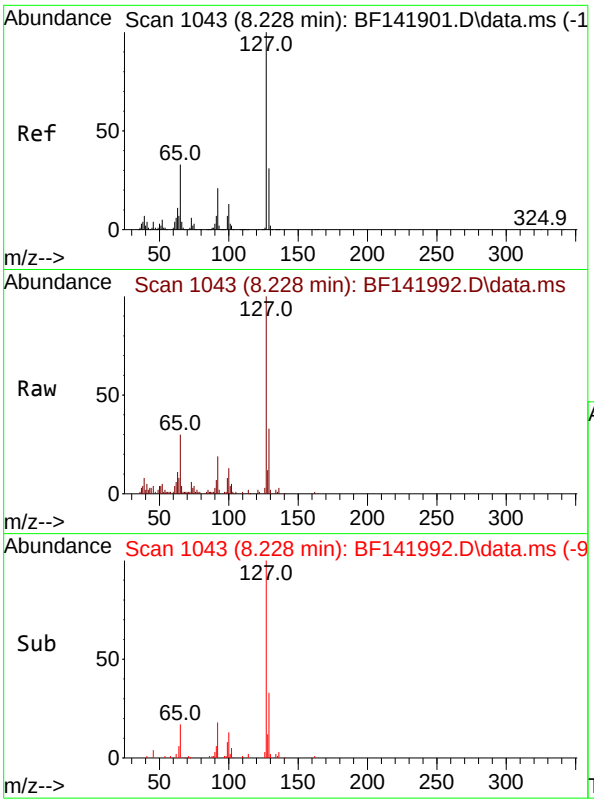


#32
Benzoic acid
Concen: 45.153 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:122 Resp: 278626

Ion	Ratio	Lower	Upper
122	100		
105	127.9	107.9	147.9
77	95.5	79.0	119.0



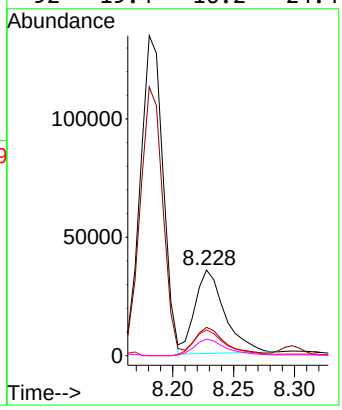


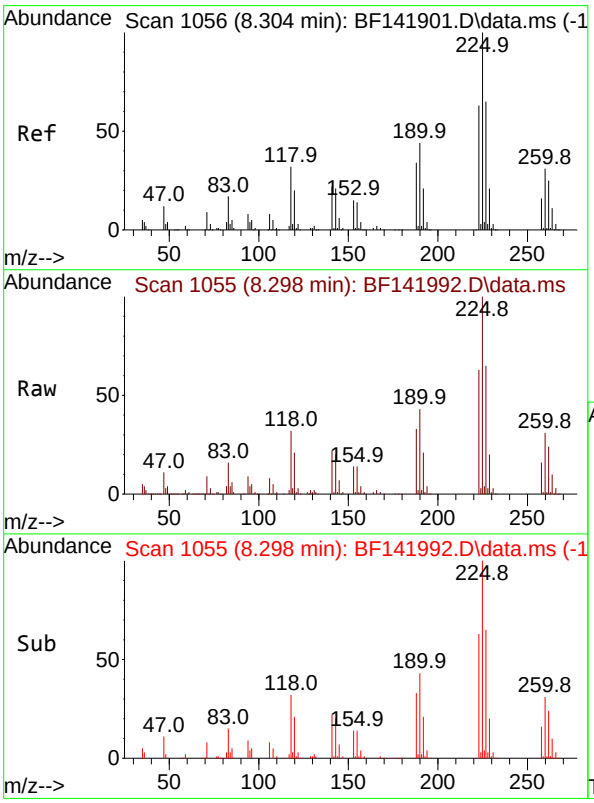
#33
4-Chloroaniline
Concen: 5.608 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:127 Resp: 59797

Ion	Ratio	Lower	Upper
127	100		
129	33.1	26.2	39.4
65	30.2	25.4	38.2
92	19.4	16.2	24.4

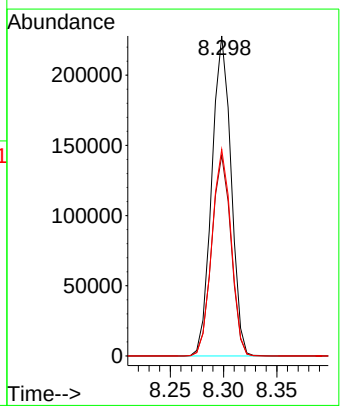


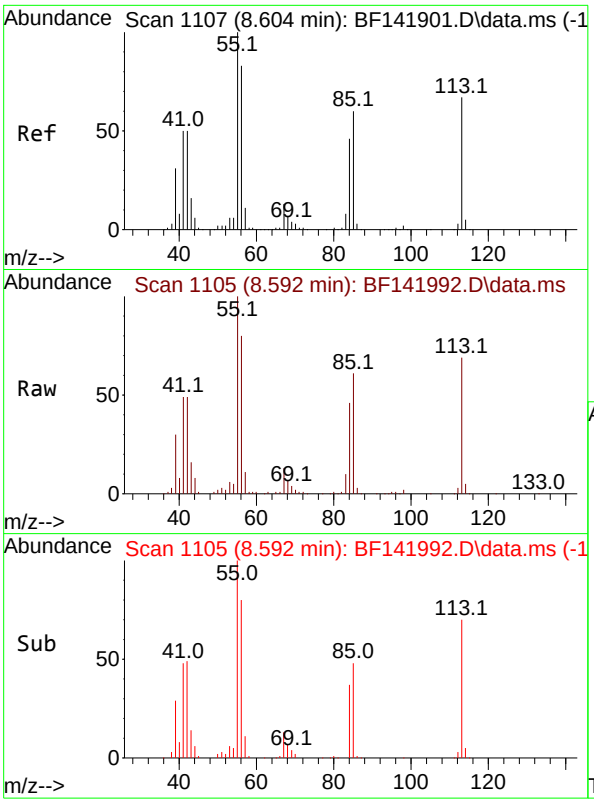


#34
Hexachlorobutadiene
Concen: 45.629 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:225 Resp: 285735

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.6	75.8
227	64.6	52.2	78.2



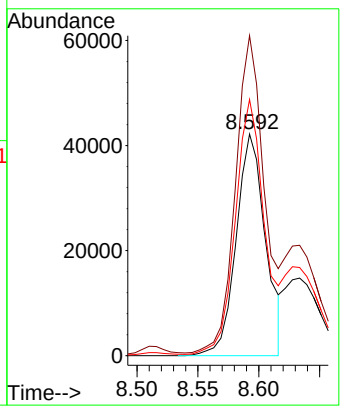


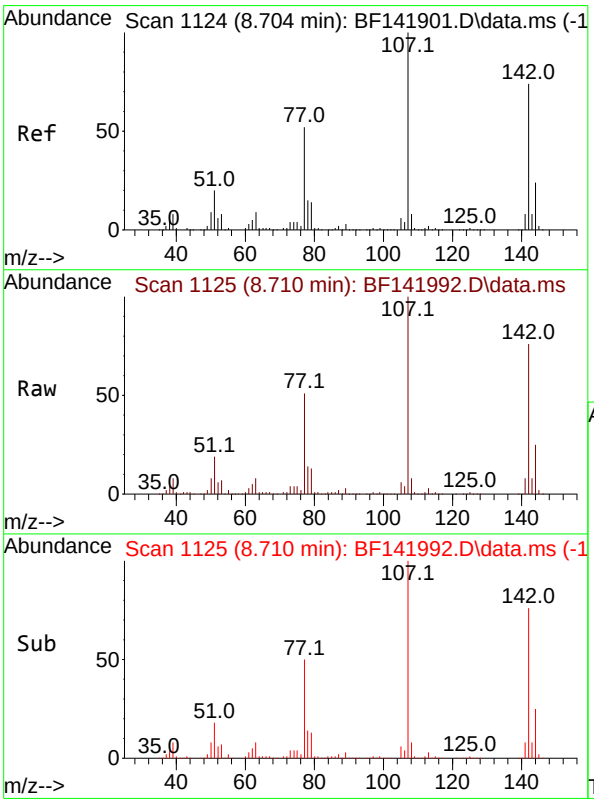
#35
Caprolactam
Concen: 26.537 ng
RT: 8.592 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:113 Resp: 70494

Ion	Ratio	Lower	Upper
113	100		
55	144.4	129.6	169.6
56	115.6	104.0	144.0

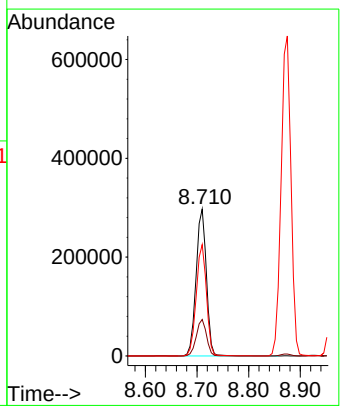


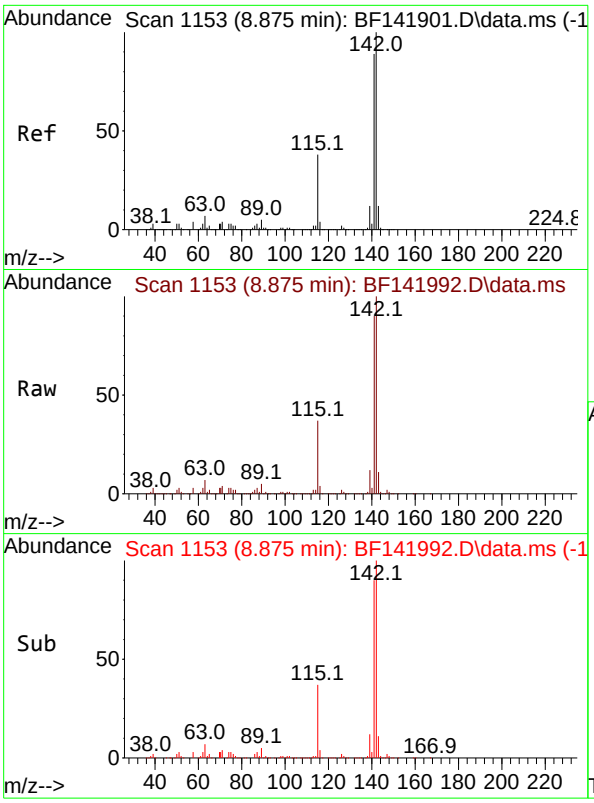


#36
4-Chloro-3-methylphenol
Concen: 42.320 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:107 Resp: 411335

Ion	Ratio	Lower	Upper
107	100		
144	24.9	19.0	28.6
142	75.9	59.2	88.8



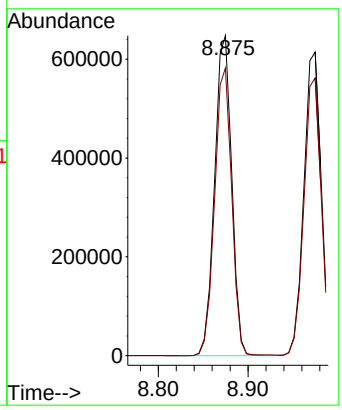


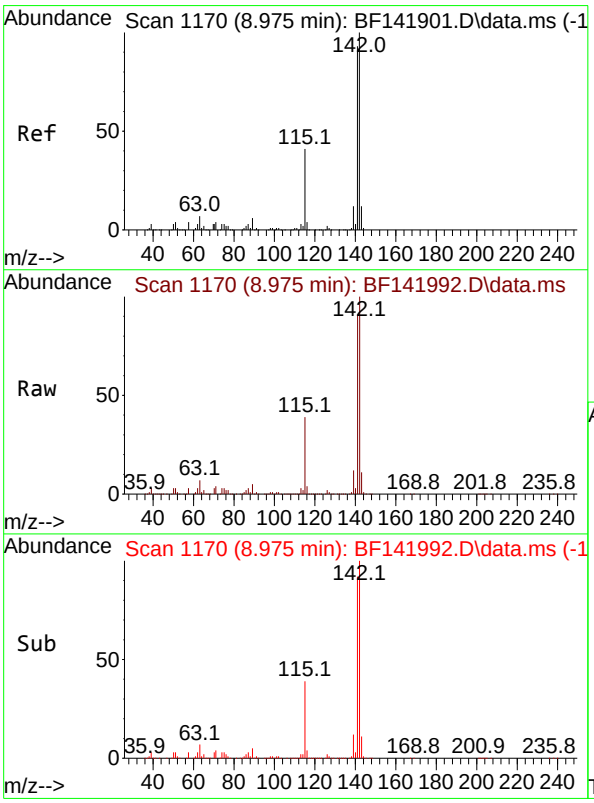
#37
2-Methylnaphthalene
Concen: 42.350 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:142 Resp: 855032

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.2	106.8

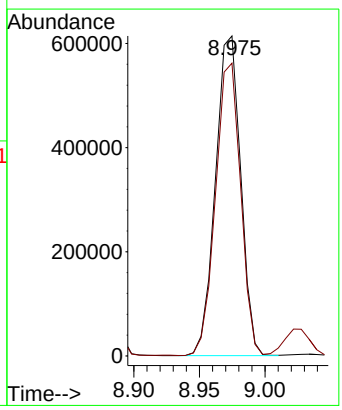


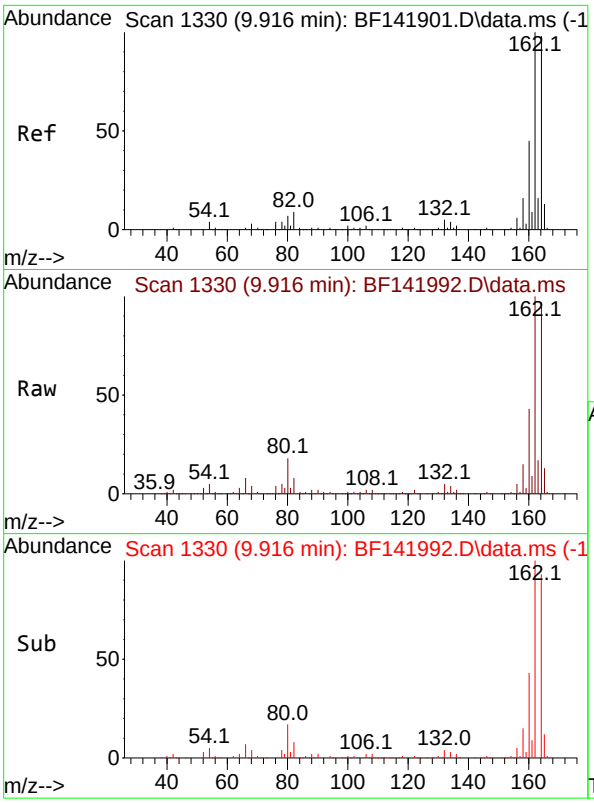


#38
1-Methylnaphthalene
Concen: 42.063 ng
RT: 8.975 min Scan# 1170
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:142 Resp: 819498

Ion	Ratio	Lower	Upper
142	100		
141	91.5	74.2	111.4



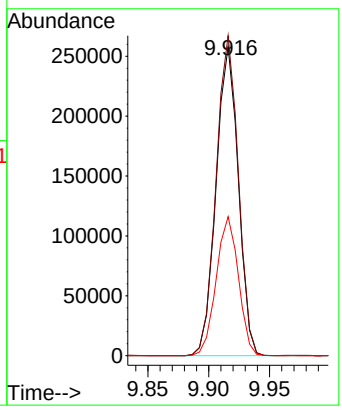


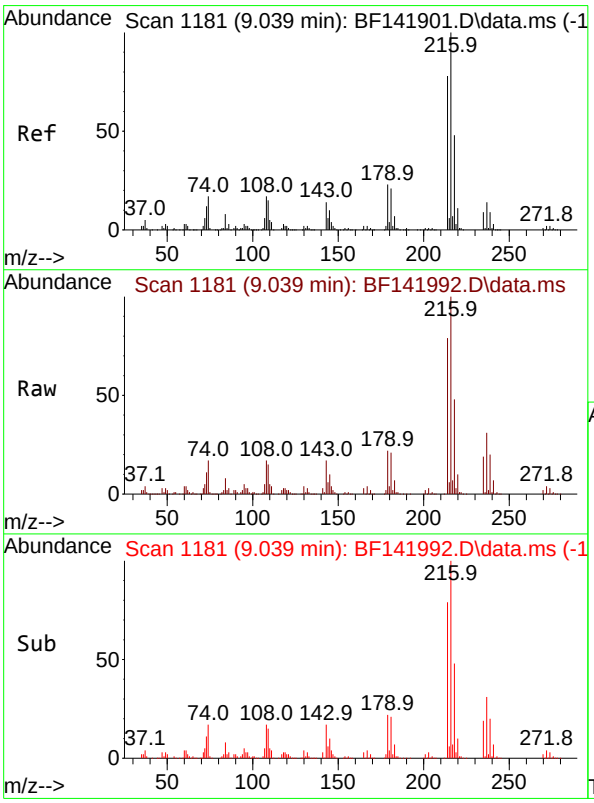
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:164 Resp: 327264

Ion	Ratio	Lower	Upper
164	100		
162	103.5	81.8	122.6
160	45.0	36.7	55.1

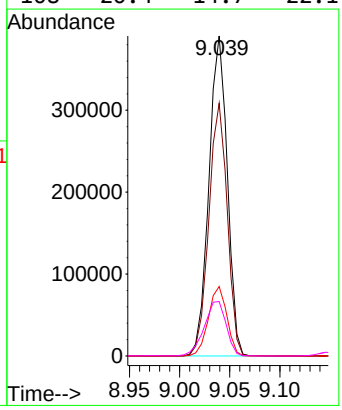


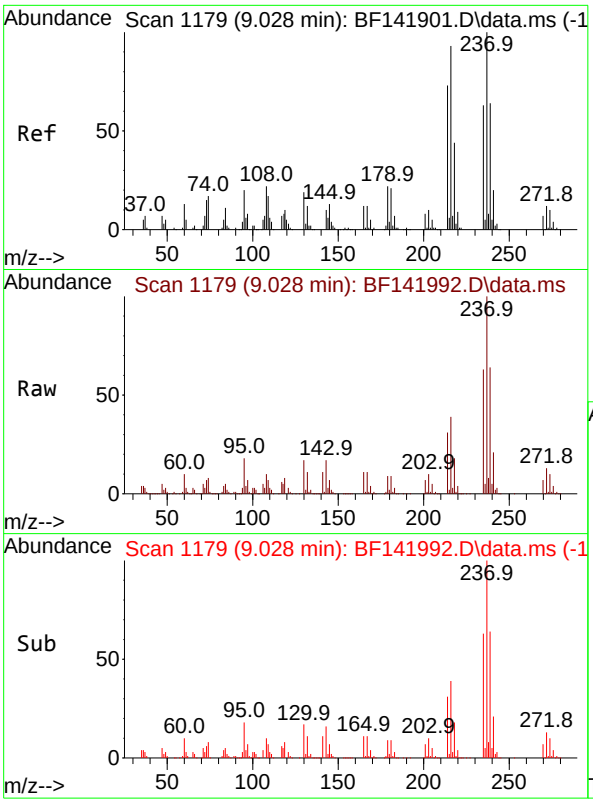


#40
1,2,4,5-Tetrachlorobenzene
Concen: 50.085 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:216 Resp: 499037

Ion	Ratio	Lower	Upper
216	100		
214	79.0	61.9	92.9
179	21.8	18.1	27.1
108	20.4	14.7	22.1



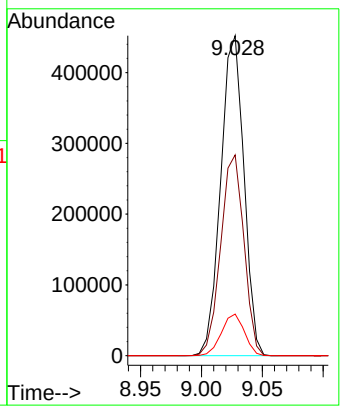


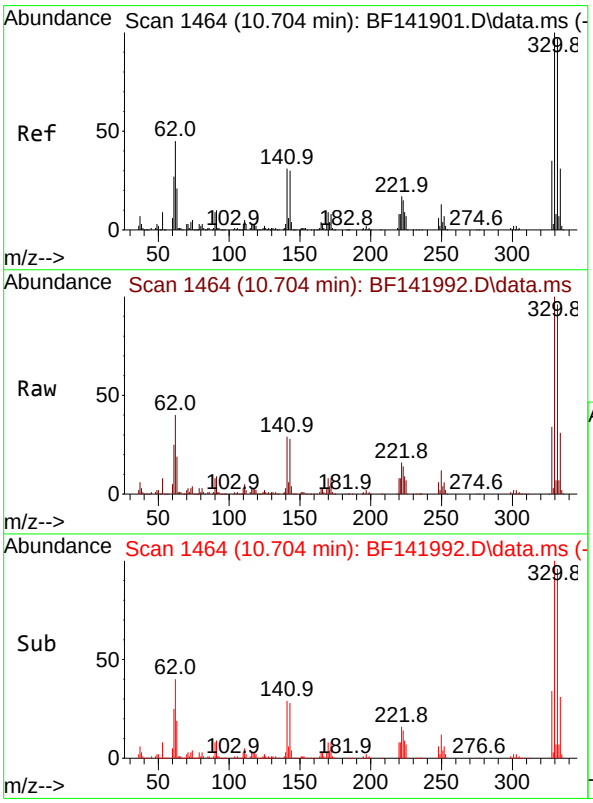
#41
Hexachlorocyclopentadiene
Concen: 153.756 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:237 Resp: 599566

Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.1	83.1
272	13.0	0.0	32.0

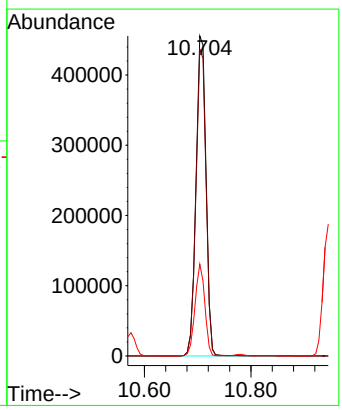


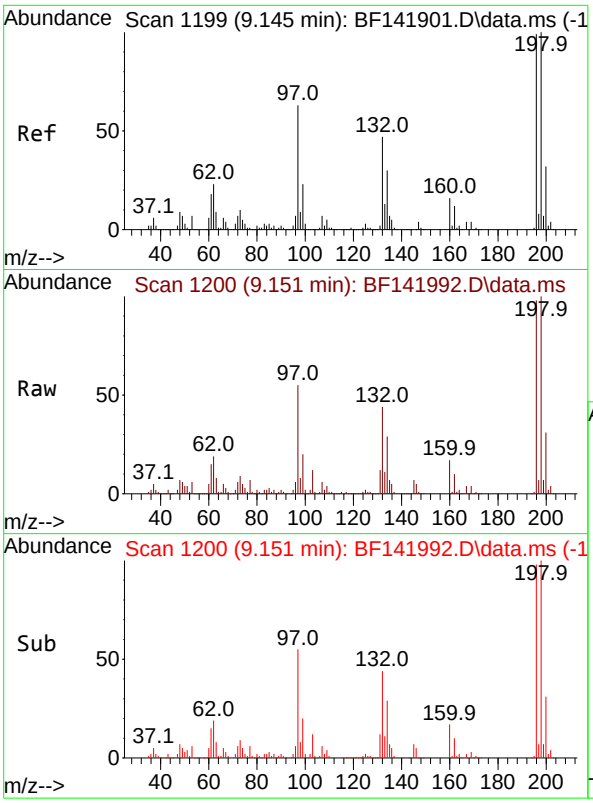


#42
2,4,6-Tribromophenol
Concen: 143.245 ng
RT: 10.704 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:330 Resp: 594720

Ion	Ratio	Lower	Upper
330	100		
332	96.1	77.6	116.4
141	28.1	24.7	37.1



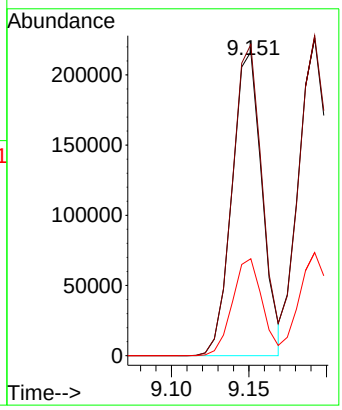


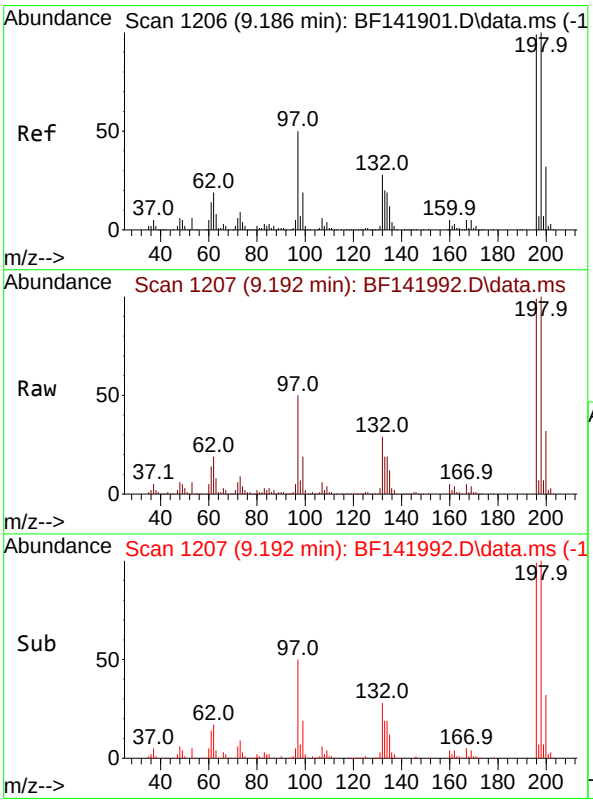
#43
2,4,6-Trichlorophenol
Concen: 44.778 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:196 Resp: 291587

Ion	Ratio	Lower	Upper
196	100		
198	102.4	80.6	121.0
200	31.9	25.8	38.6

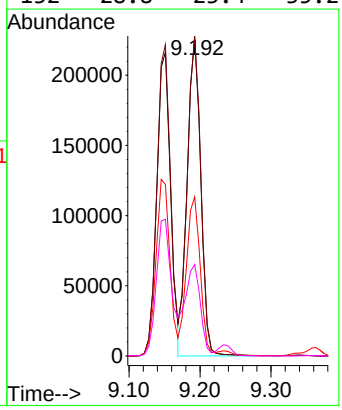


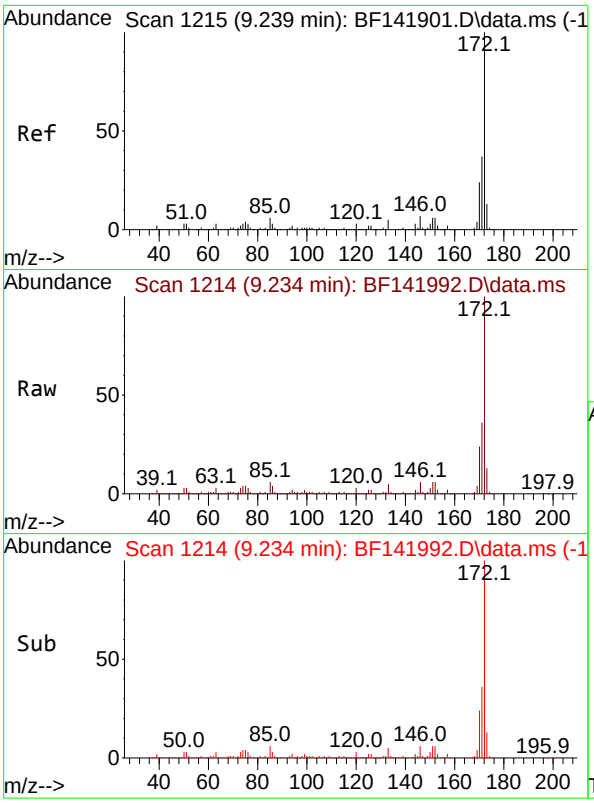


#44
2,4,5-Trichlorophenol
Concen: 45.761 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:196 Resp: 301802

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.7	121.1
97	50.1	42.1	63.1
132	28.8	23.4	35.2



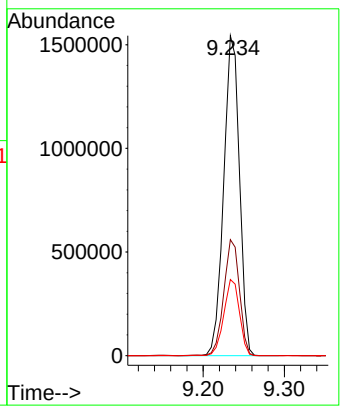


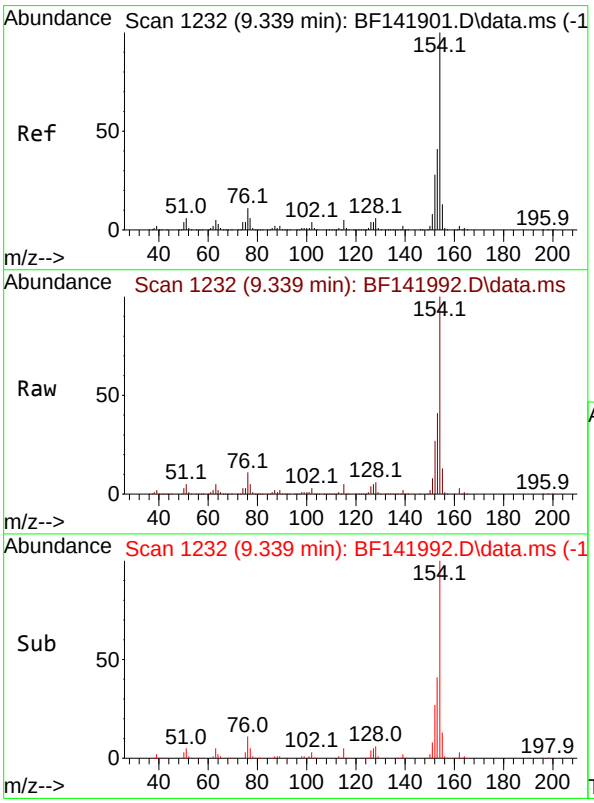
#45
2-Fluorobiphenyl
Concen: 96.770 ng
RT: 9.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:172 Resp: 2082406

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.3	43.9
170	23.8	19.4	29.0

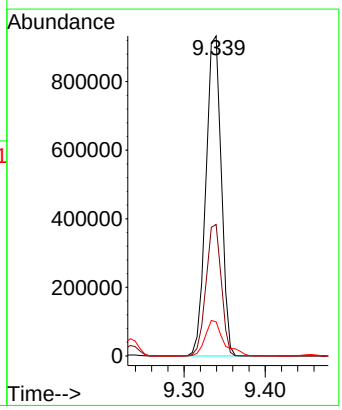


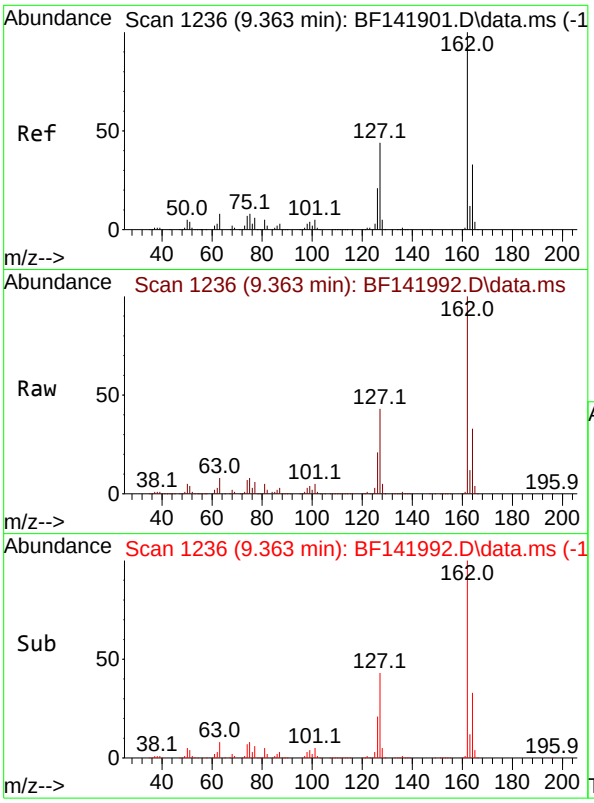


#46
1,1'-Biphenyl
Concen: 49.193 ng
RT: 9.339 min Scan# 1232
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:154 Resp: 1223225

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.1	61.1
76	10.7	0.0	31.3



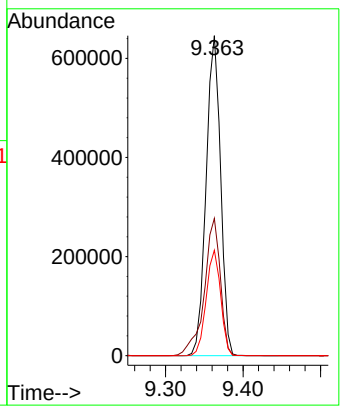


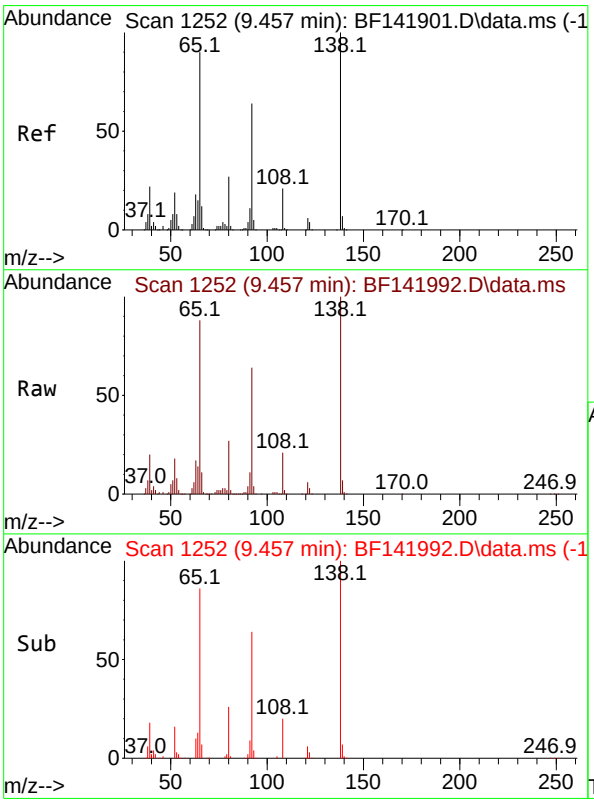
#47
2-Chloronaphthalene
Concen: 45.062 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:162 Resp: 835177

Ion	Ratio	Lower	Upper
162	100		
127	42.9	35.5	53.3
164	33.0	26.6	40.0

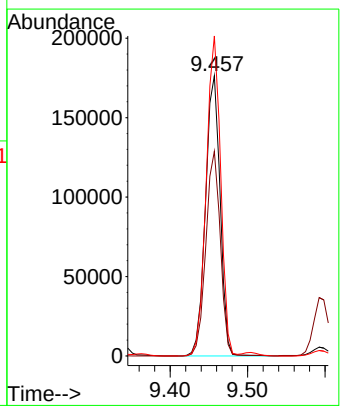


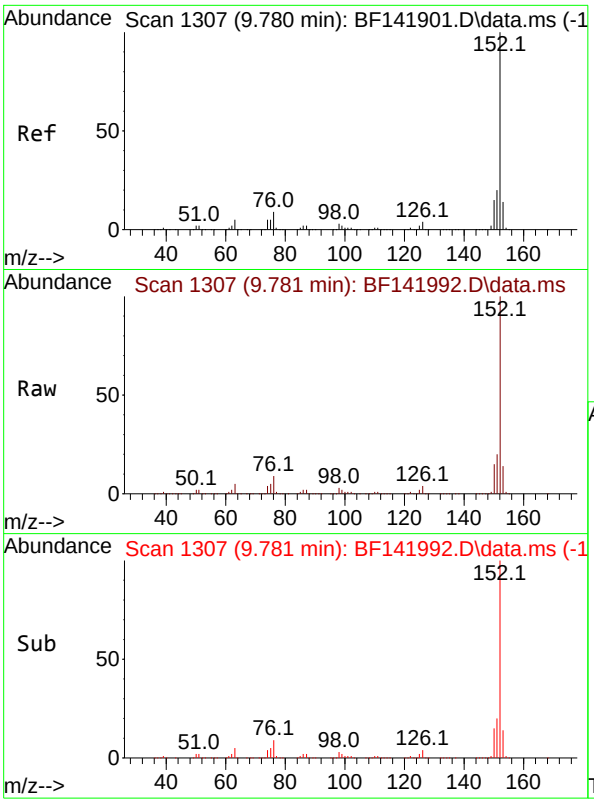


#48
2-Nitroaniline
Concen: 43.166 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion: 65 Resp: 231642

Ion	Ratio	Lower	Upper
65	100		
92	73.0	56.6	84.8
138	114.2	88.6	133.0



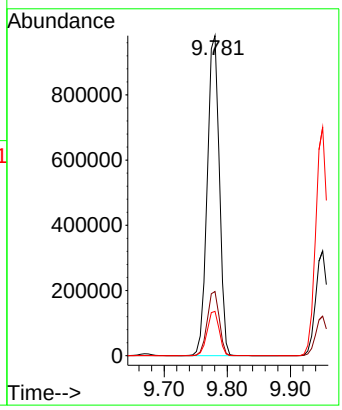


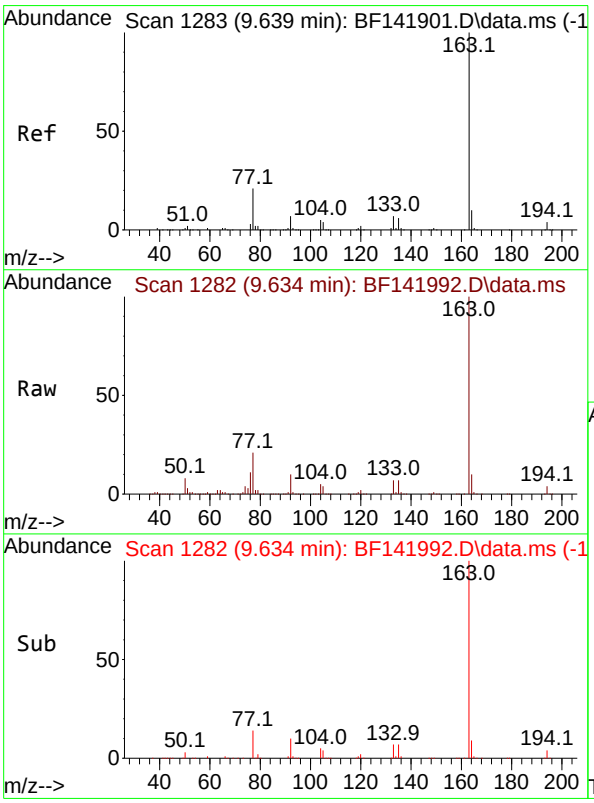
#49
Acenaphthylene
Concen: 47.417 ng
RT: 9.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:152 Resp: 1304148

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	13.8	11.1	16.7

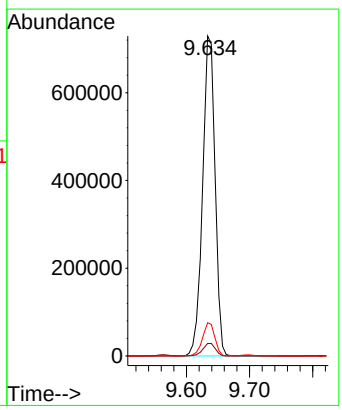


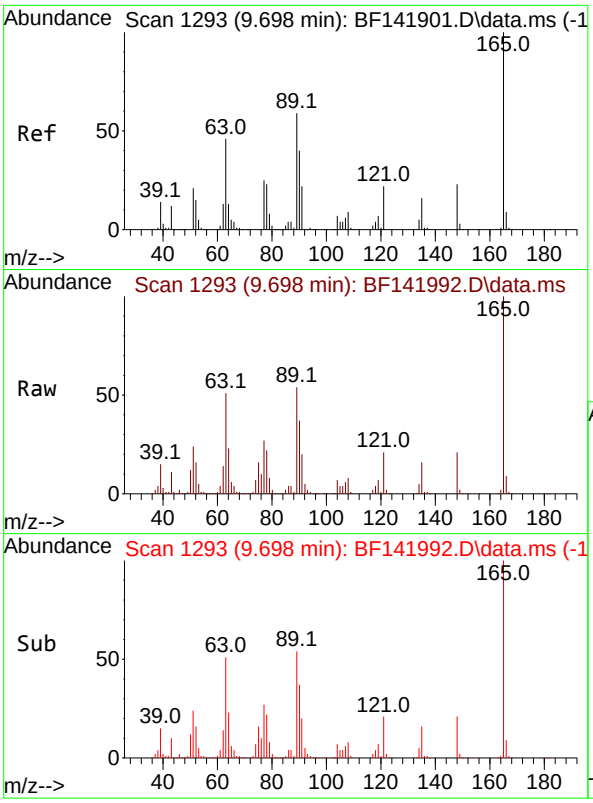


#50
Dimethylphthalate
Concen: 43.807 ng
RT: 9.634 min Scan# 1282
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:163 Resp: 1003942

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.4	8.2	12.4



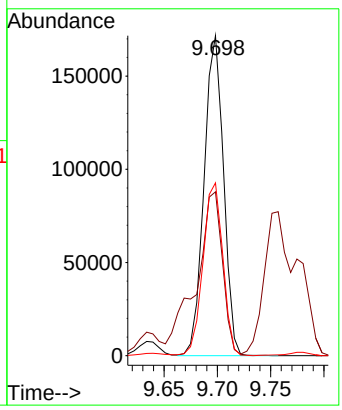


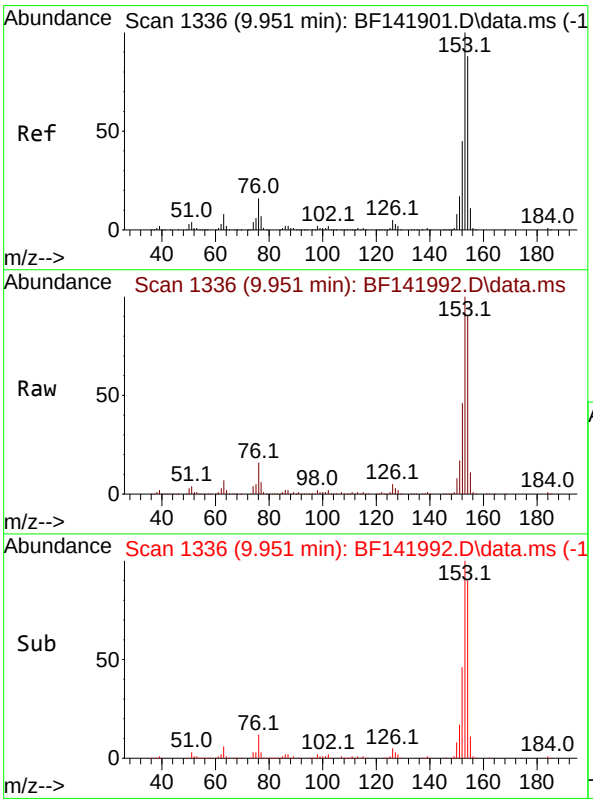
#51
2,6-Dinitrotoluene
Concen: 45.811 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:165 Resp: 218594

Ion	Ratio	Lower	Upper
165	100		
63	51.2	47.0	70.4
89	54.0	47.4	71.2

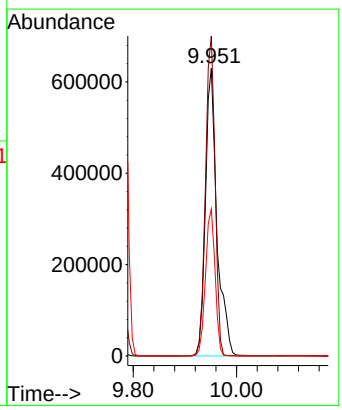


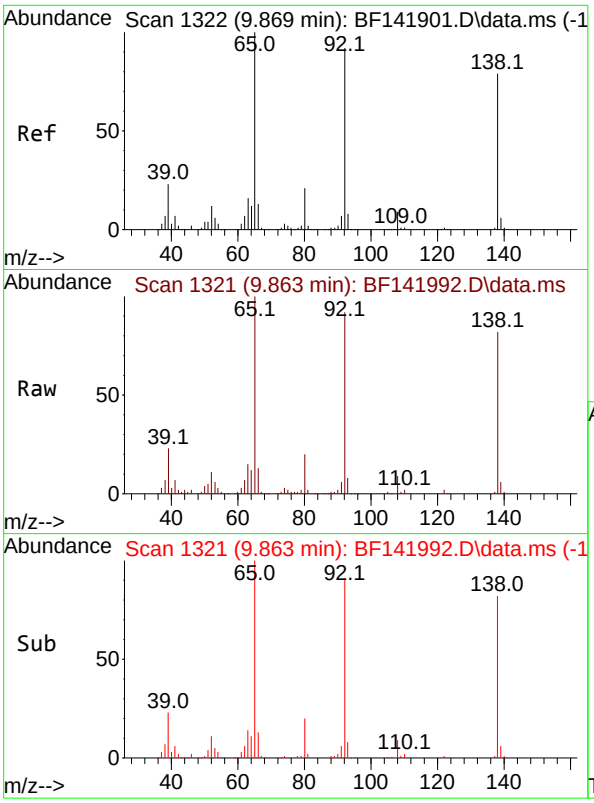


#52
Acenaphthene
Concen: 50.481 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:154 Resp: 975716

Ion	Ratio	Lower	Upper
154	100		
153	111.2	90.7	136.1
152	51.1	41.1	61.7



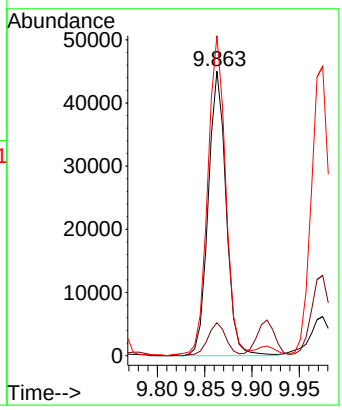


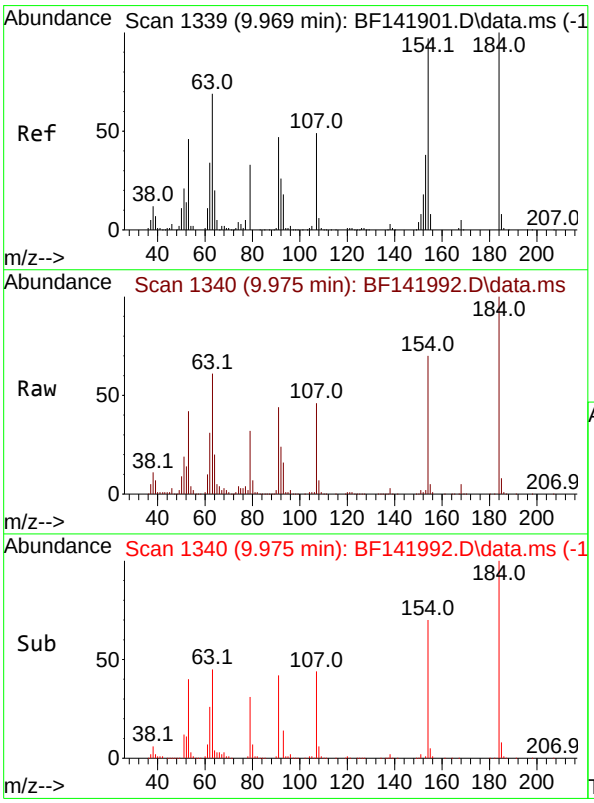
#53
3-Nitroaniline
Concen: 12.228 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:138 Resp: 59186

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.3	13.9
92	112.5	93.5	140.3

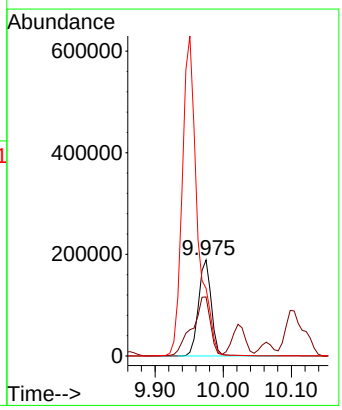


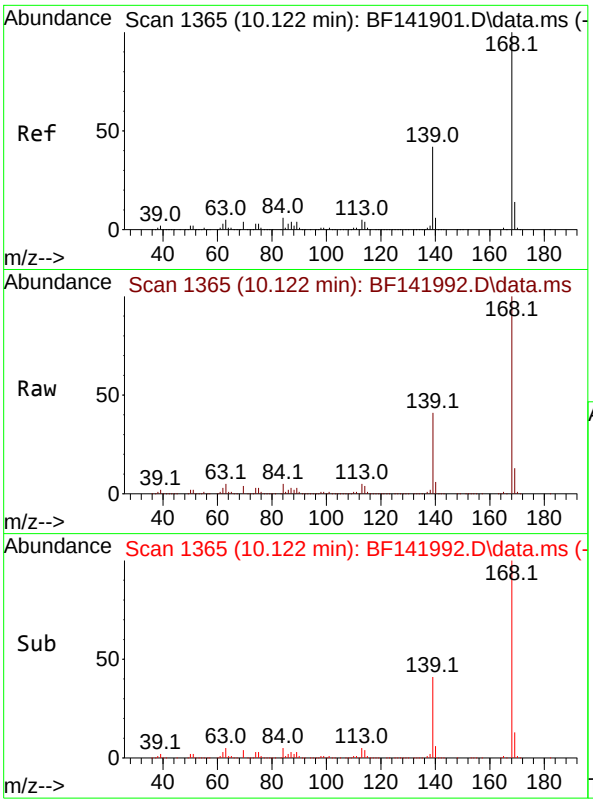


#54
2,4-Dinitrophenol
Concen: 89.973 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:184 Resp: 246349

Ion	Ratio	Lower	Upper
184	100		
63	61.4	60.2	90.4
154	70.5	132.9	199.3#



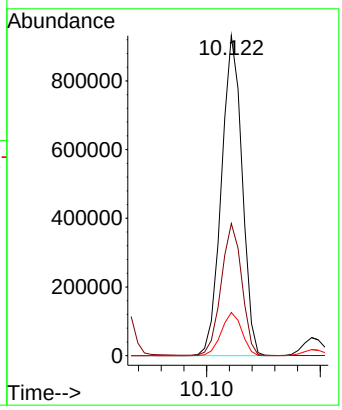


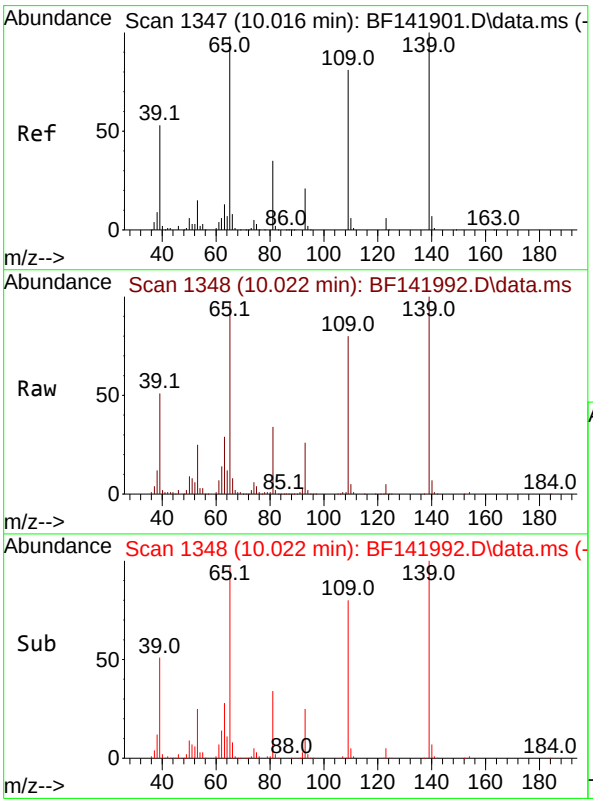
#55
Dibenzofuran
Concen: 42.639 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:168 Resp: 1177594

Ion	Ratio	Lower	Upper
168	100		
139	41.3	33.9	50.9
169	13.5	11.0	16.4

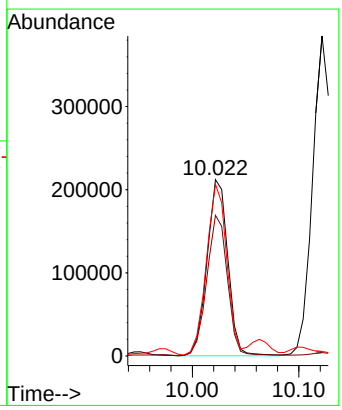


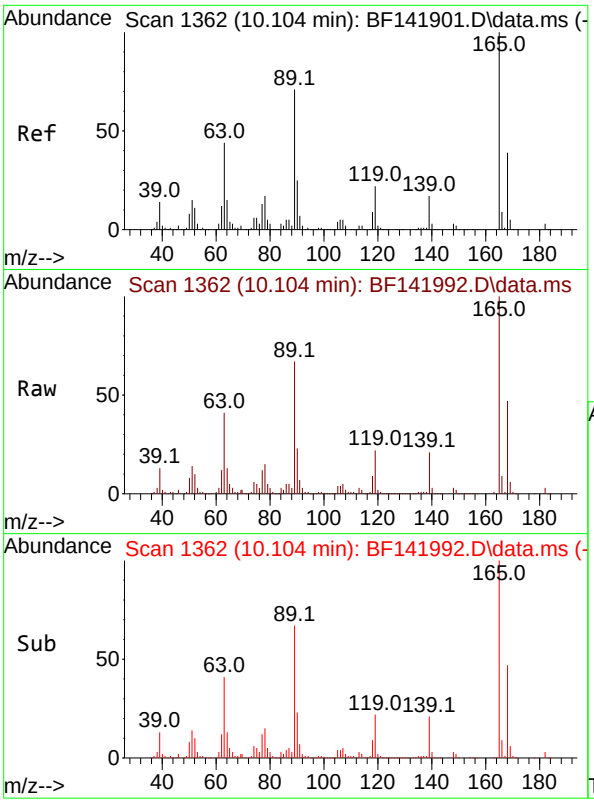


#56
4-Nitrophenol
Concen: 78.642 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:139 Resp: 287055

Ion	Ratio	Lower	Upper
139	100		
109	79.8	61.6	101.6
65	97.5	79.4	119.4



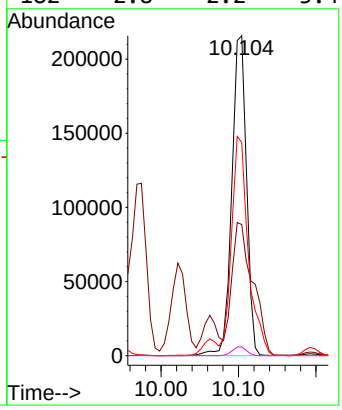


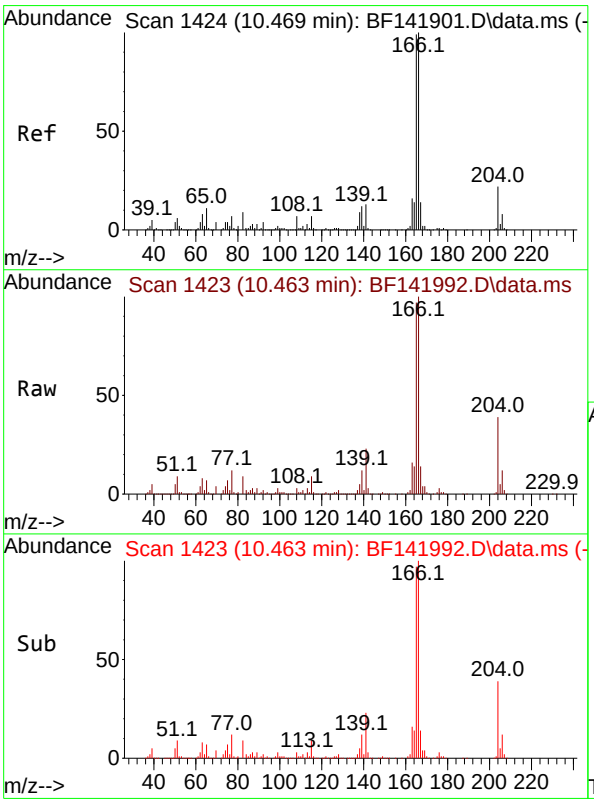
#57
2,4-Dinitrotoluene
Concen: 45.803 ng
RT: 10.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:165 Resp: 285453

Ion	Ratio	Lower	Upper
165	100		
63	41.0	35.4	53.2
89	66.6	56.6	84.8
182	2.8	2.2	3.4

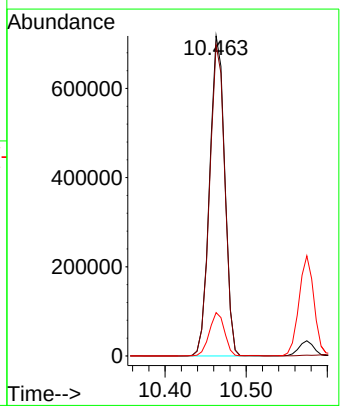


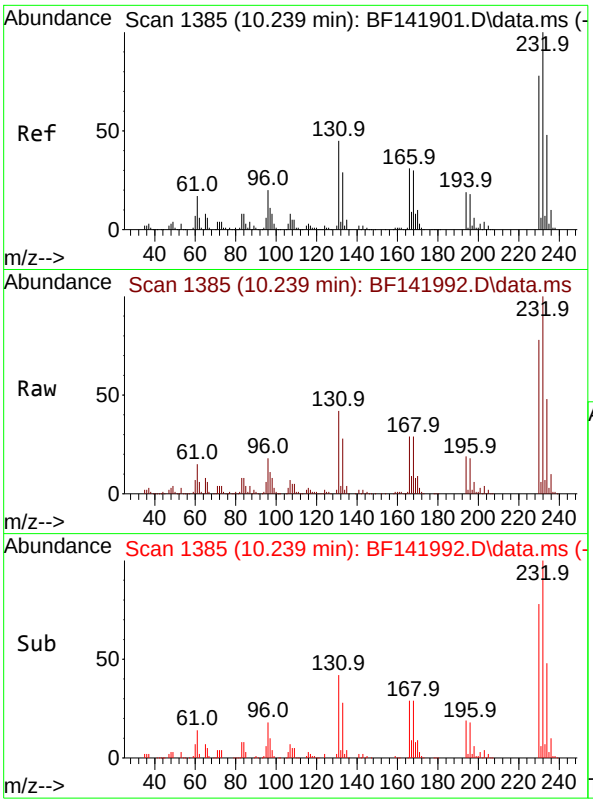


#58
Fluorene
Concen: 43.562 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:166 Resp: 927784

Ion	Ratio	Lower	Upper
166	100		
165	97.2	79.0	118.4
167	13.5	11.0	16.4



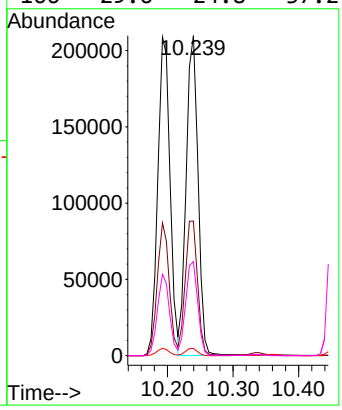


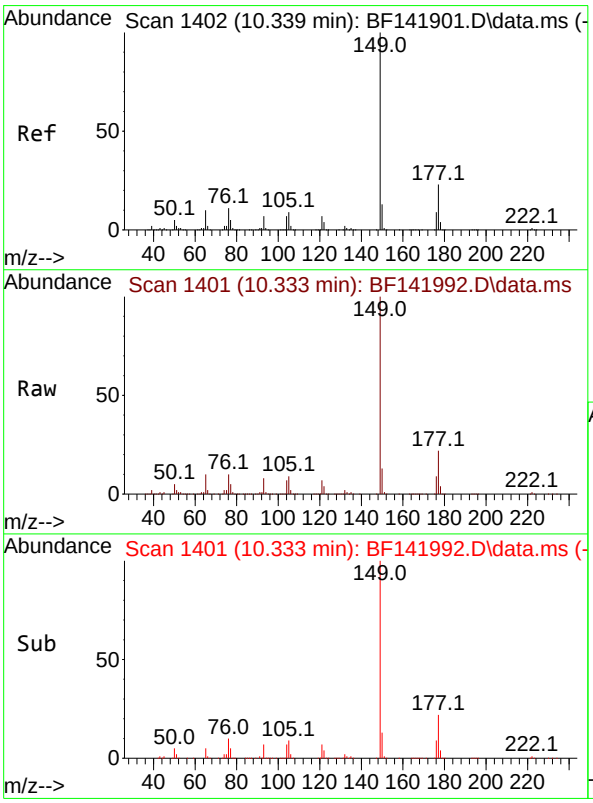
#59
2,3,4,6-Tetrachlorophenol
Concen: 43.713 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:232 Resp: 262341

Ion	Ratio	Lower	Upper
232	100		
131	43.7	37.3	55.9
130	2.3	1.9	2.9
166	29.6	24.8	37.2

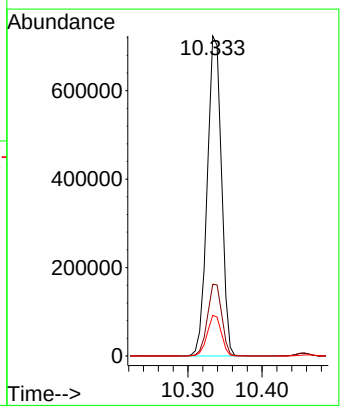


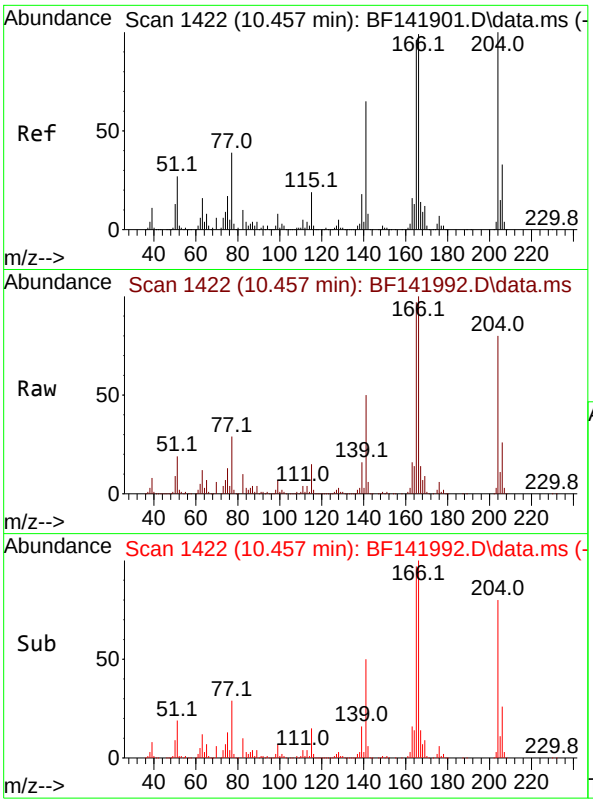


#60
Diethylphthalate
Concen: 42.236 ng
RT: 10.333 min Scan# 1401
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:149 Resp: 965154

Ion	Ratio	Lower	Upper
149	100		
177	22.4	18.0	27.0
150	12.7	10.2	15.4



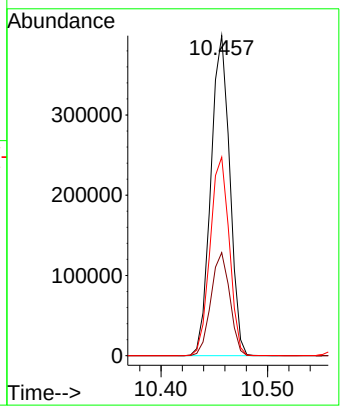


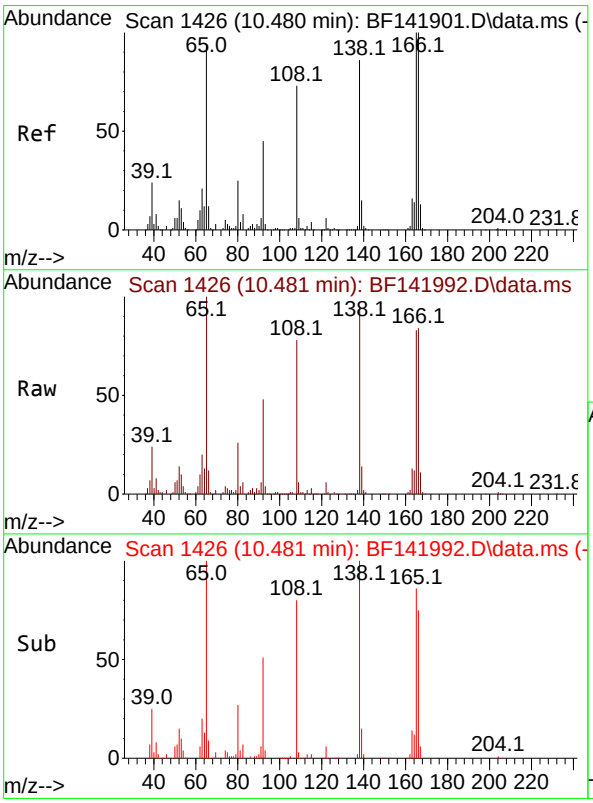
#61
4-Chlorophenyl-phenylether
Concen: 44.150 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:204 Resp: 490233

Ion	Ratio	Lower	Upper
204	100		
206	32.2	26.8	40.2
141	62.1	52.4	78.6

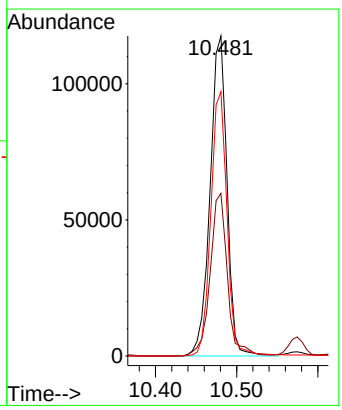


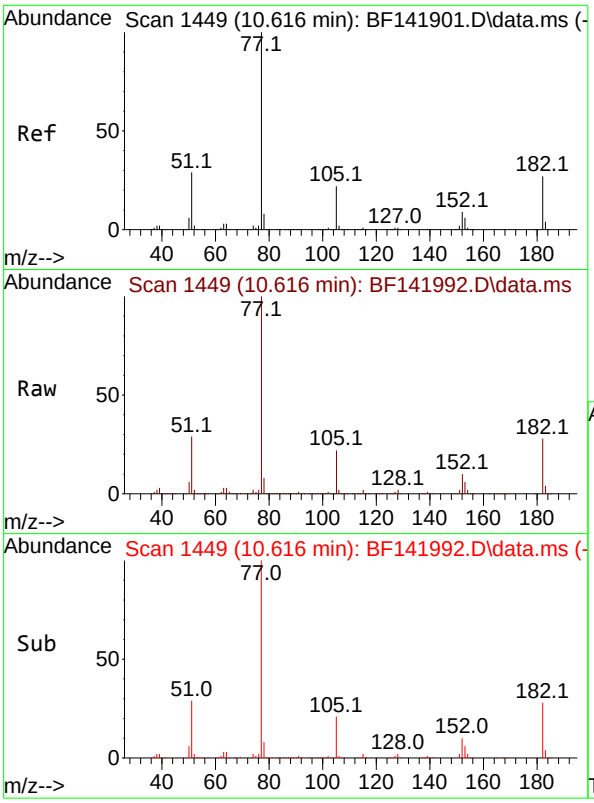


#62
4-Nitroaniline
Concen: 36.115 ng
RT: 10.481 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:138 Resp: 170182

Ion	Ratio	Lower	Upper
138	100		
92	50.8	32.6	72.6
108	82.6	65.0	105.0



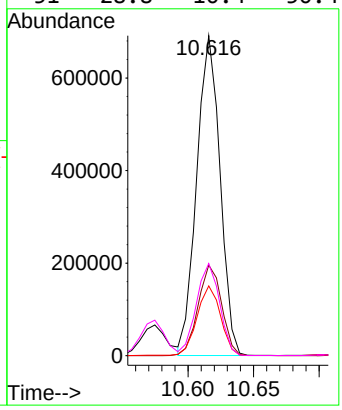


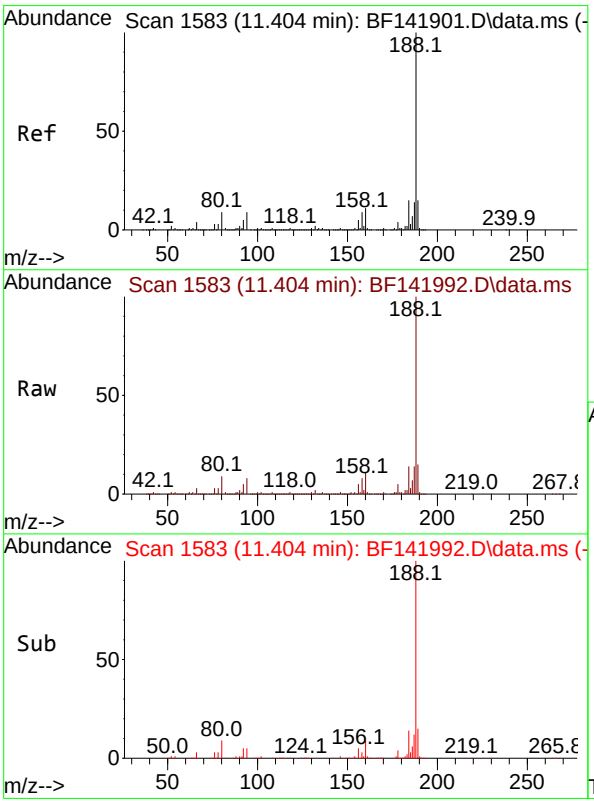
#63
Azobenzene
Concen: 40.302 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion: 77 Resp: 856245

Ion	Ratio	Lower	Upper
77	100		
182	28.3	6.6	46.6
105	21.8	1.3	41.3
51	28.8	10.4	50.4

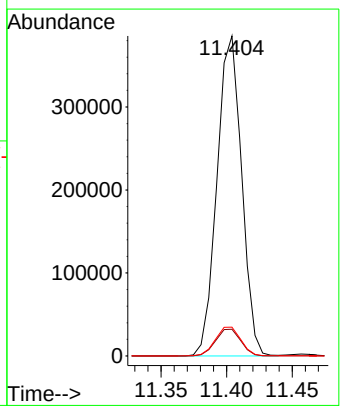


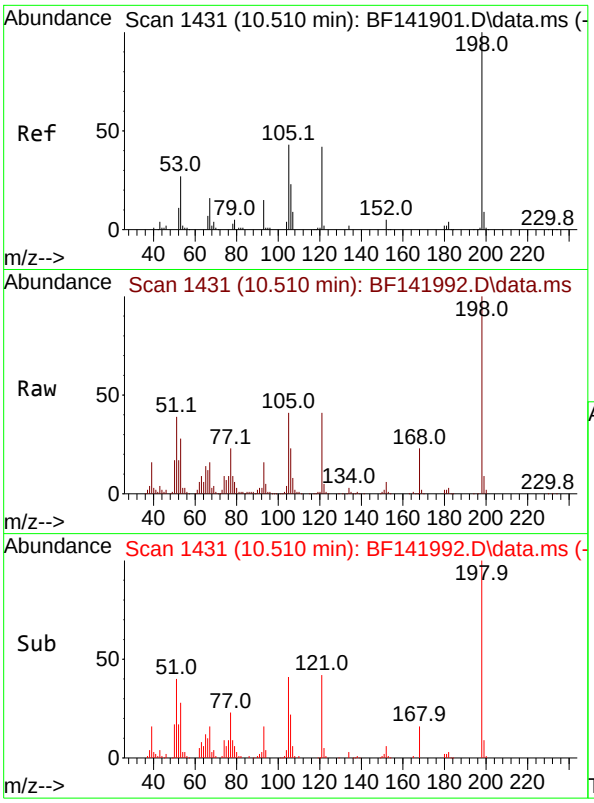


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:188 Resp: 504077

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.8	10.2
80	9.0	7.6	11.4



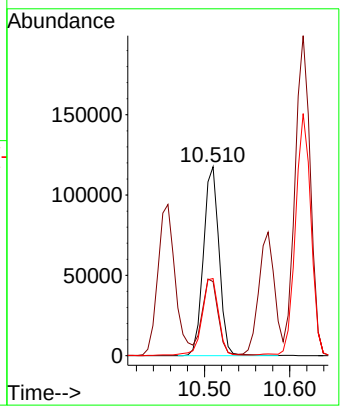


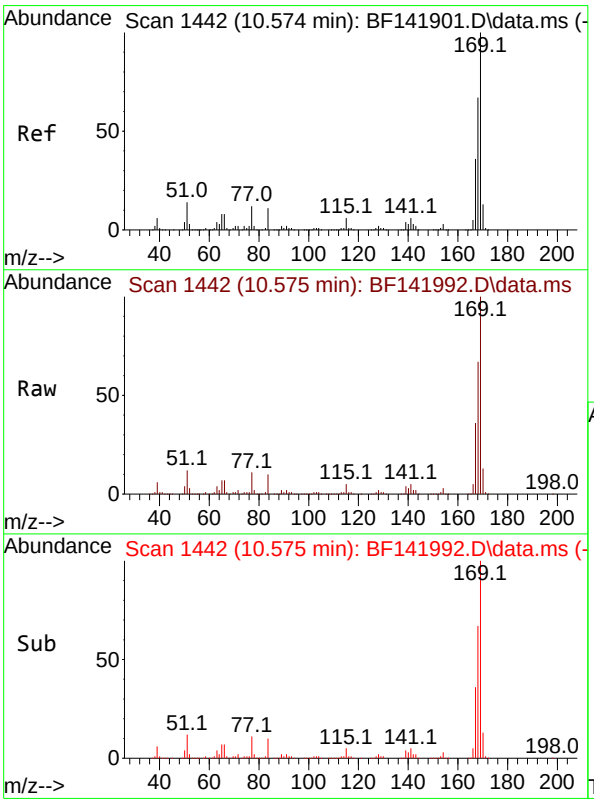
#65
4,6-Dinitro-2-methylphenol
Concen: 49.783 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:198 Resp: 149599

Ion	Ratio	Lower	Upper
198	100		
51	39.2	22.3	62.3
105	40.8	23.0	63.0

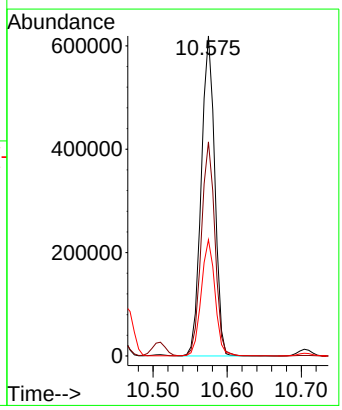


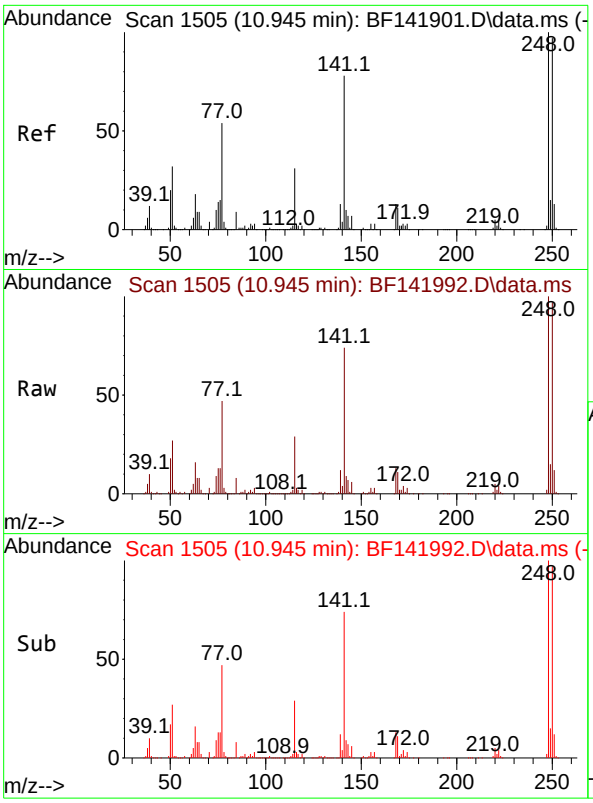


#66
n-Nitrosodiphenylamine
Concen: 48.113 ng
RT: 10.575 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:169 Resp: 784826

Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.7	80.5
167	36.3	29.2	43.8



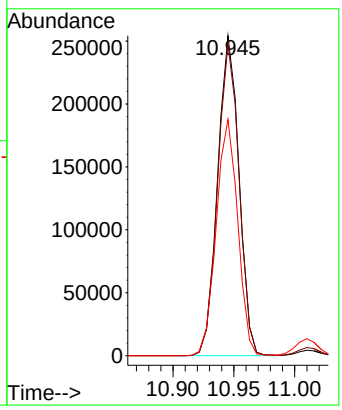


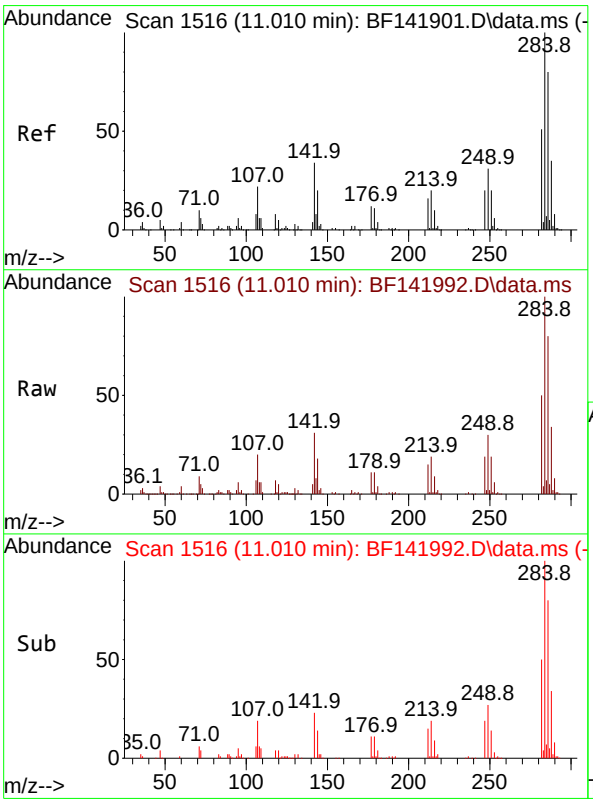
#67
4-Bromophenyl-phenylether
Concen: 49.106 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:248 Resp: 310869

Ion	Ratio	Lower	Upper
248	100		
250	97.3	77.8	116.8
141	73.8	62.6	93.8

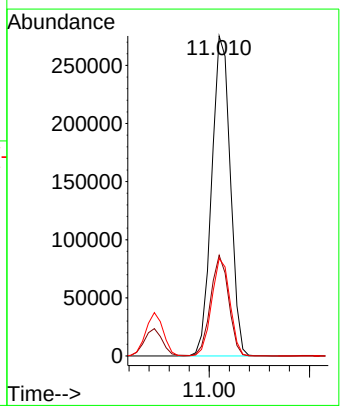


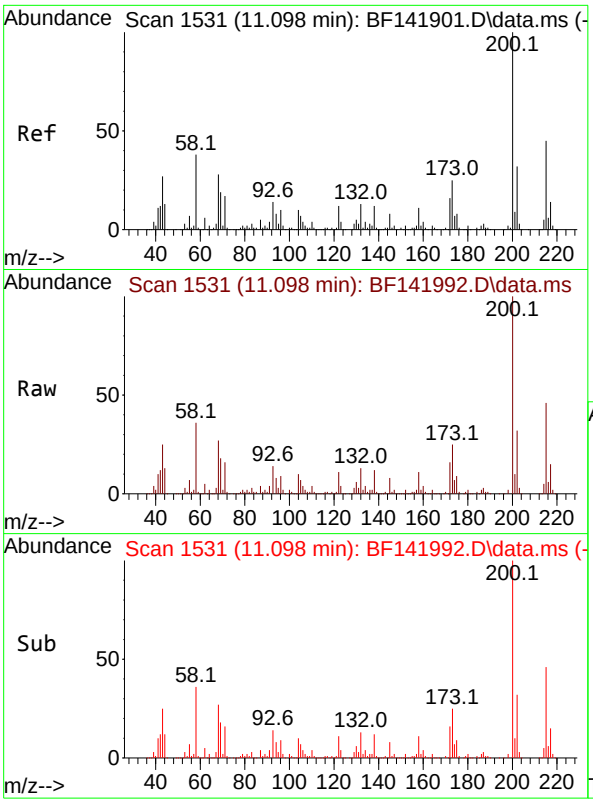


#68
Hexachlorobenzene
Concen: 50.972 ng
RT: 11.010 min Scan# 1516
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:284 Resp: 353910

Ion	Ratio	Lower	Upper
284	100		
142	31.5	27.0	40.6
249	30.4	25.2	37.8



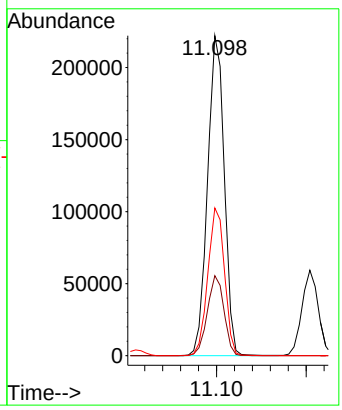


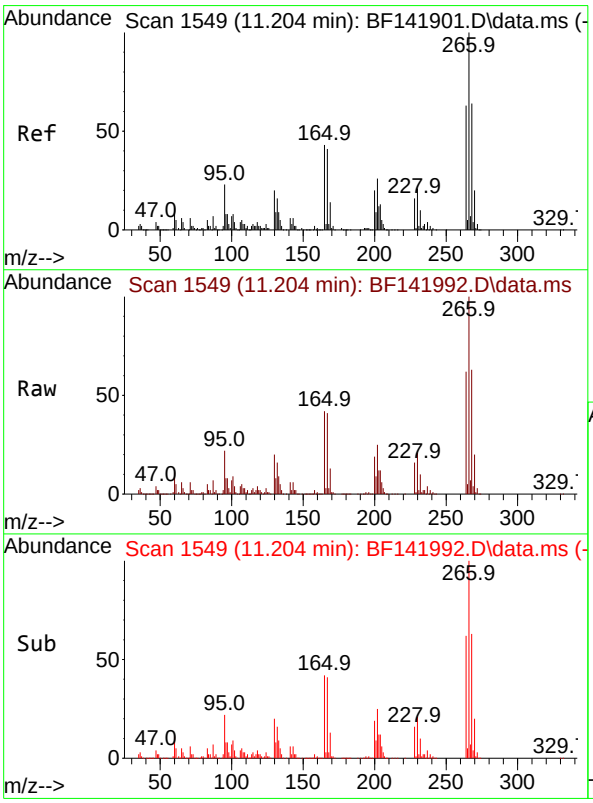
#69
Atrazine
Concen: 57.499 ng
RT: 11.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:200 Resp: 287531

Ion	Ratio	Lower	Upper
200	100		
173	25.0	4.7	44.7
215	46.1	25.4	65.4

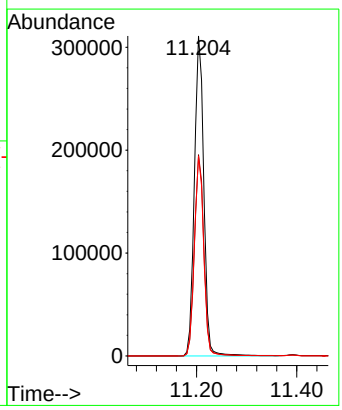


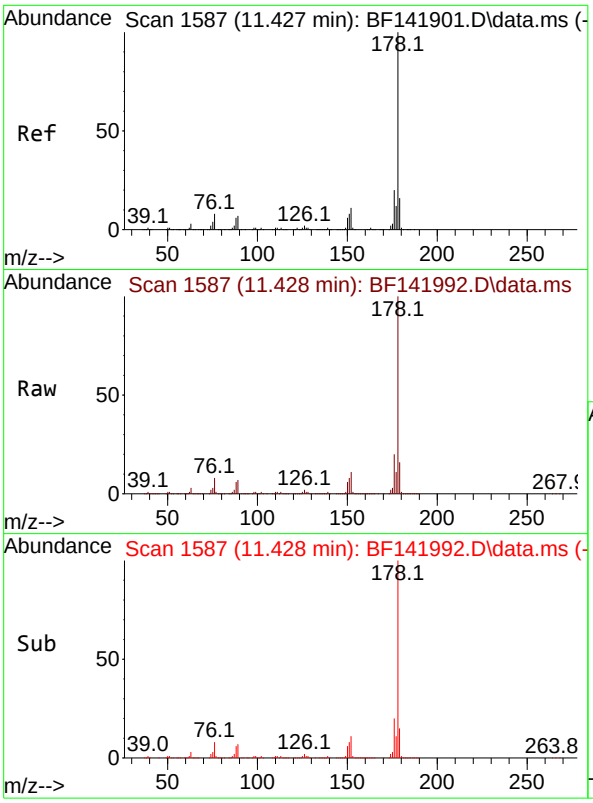


#70
Pentachlorophenol
Concen: 94.768 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:266 Resp: 405413

Ion	Ratio	Lower	Upper
266	100		
268	62.9	51.0	76.6
264	62.4	50.2	75.2



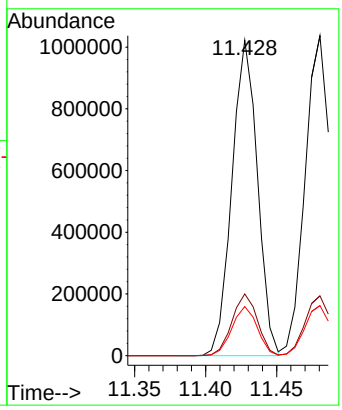


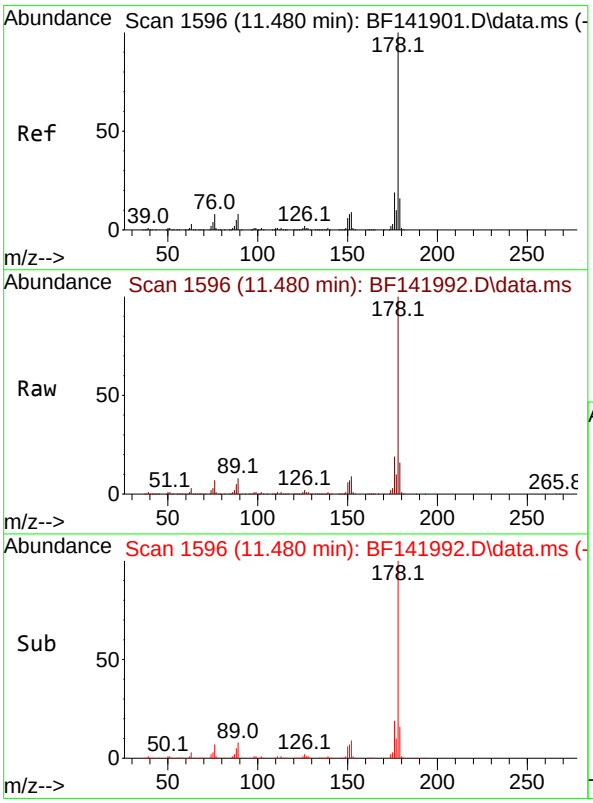
#71
Phenanthrene
Concen: 46.862 ng
RT: 11.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:178 Resp: 1275909

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.5	12.6	19.0

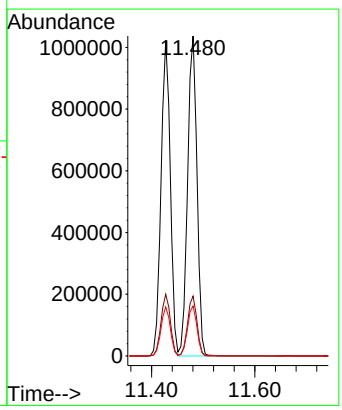


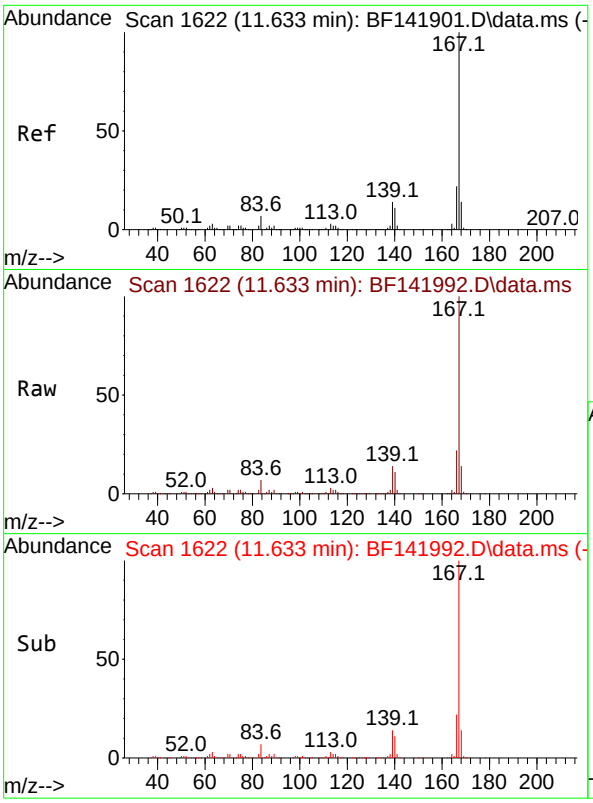


#72
Anthracene
Concen: 47.795 ng
RT: 11.480 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:178 Resp: 1305550

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.1	22.7
179	15.6	12.6	19.0



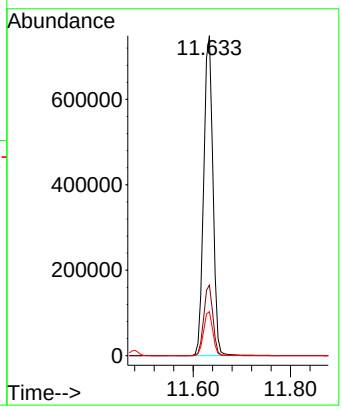


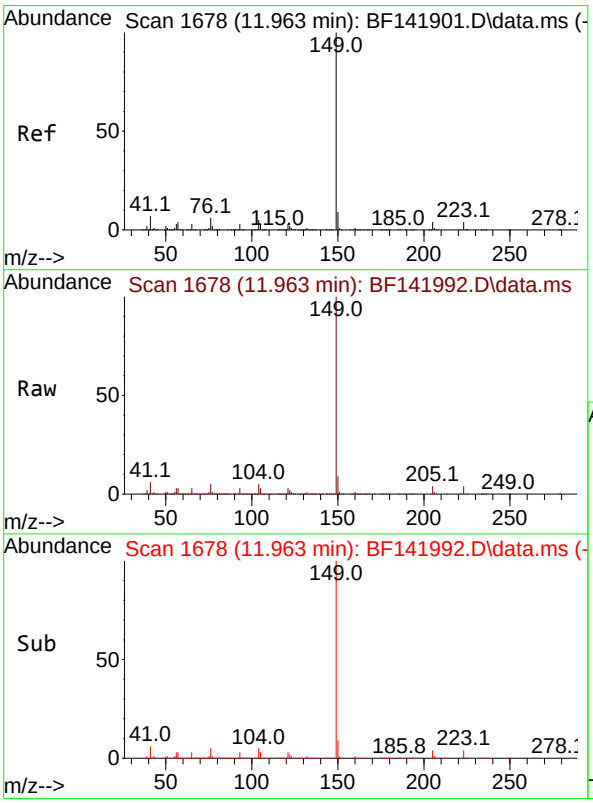
#73
Carbazole
Concen: 41.672 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:167 Resp: 981674

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.4	26.2
139	13.7	11.0	16.6

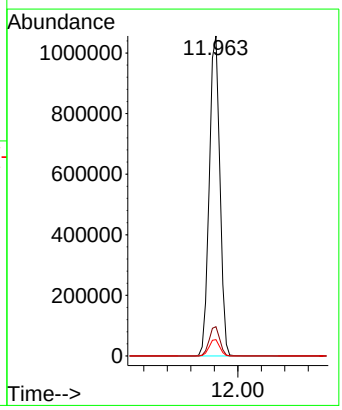


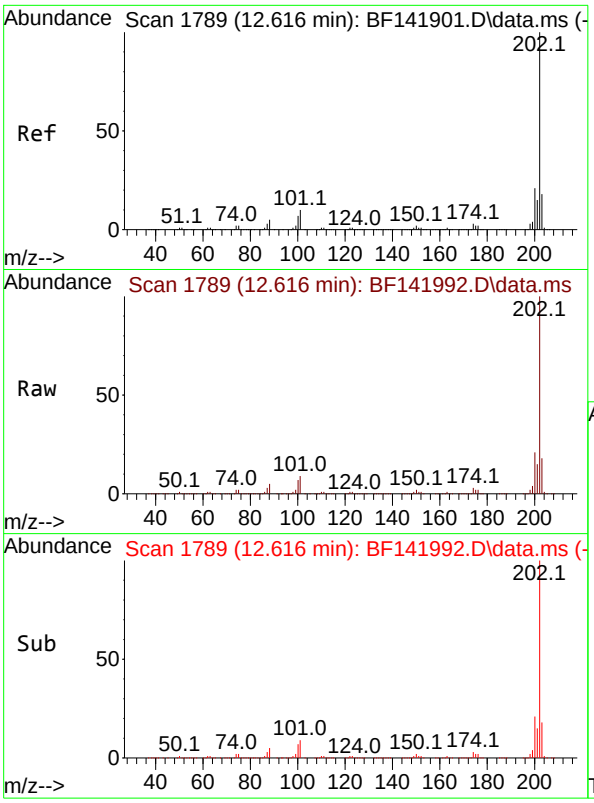


#74
Di-n-butylphthalate
Concen: 42.467 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:149 Resp: 1327416

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.6	11.4
104	5.1	4.4	6.6



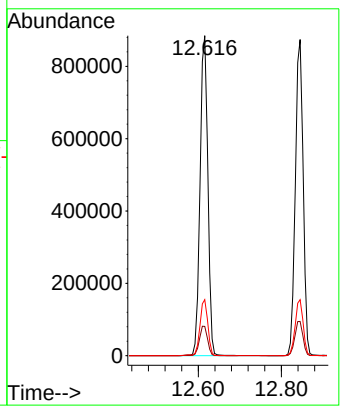


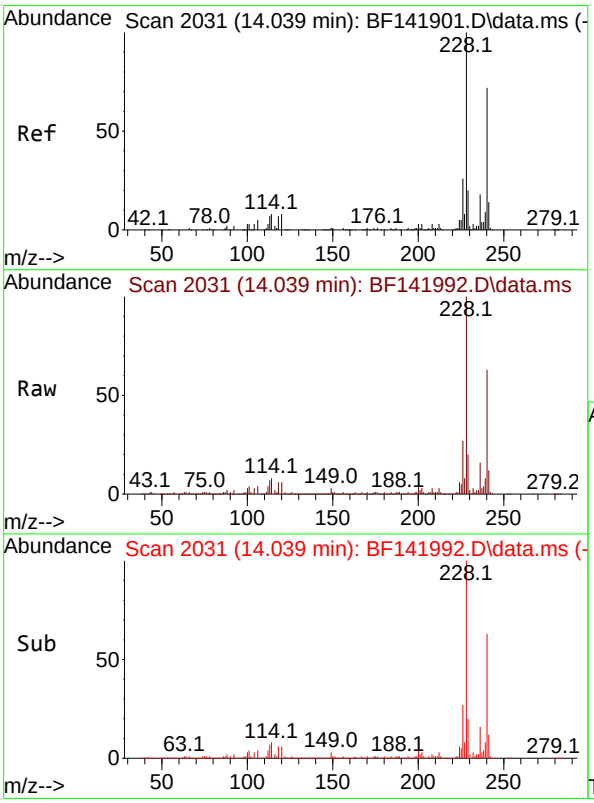
#75
Fluoranthene
Concen: 39.814 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:202 Resp: 1149890

Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	29.7
203	17.5	0.0	37.8

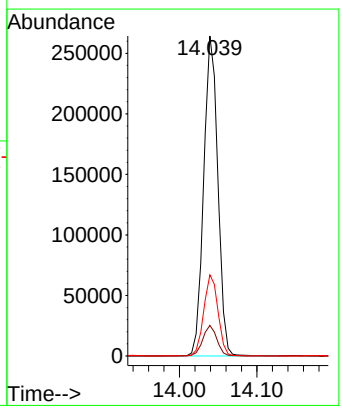


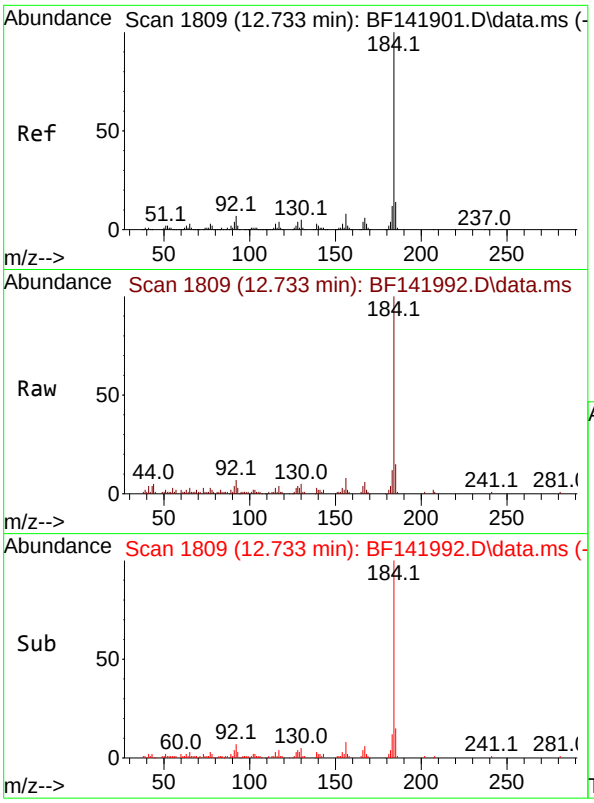


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:240 Resp: 334257

Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.4	12.6
236	25.3	20.5	30.7



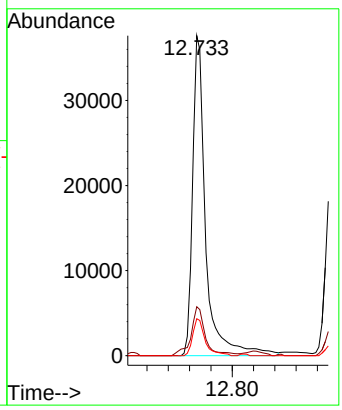


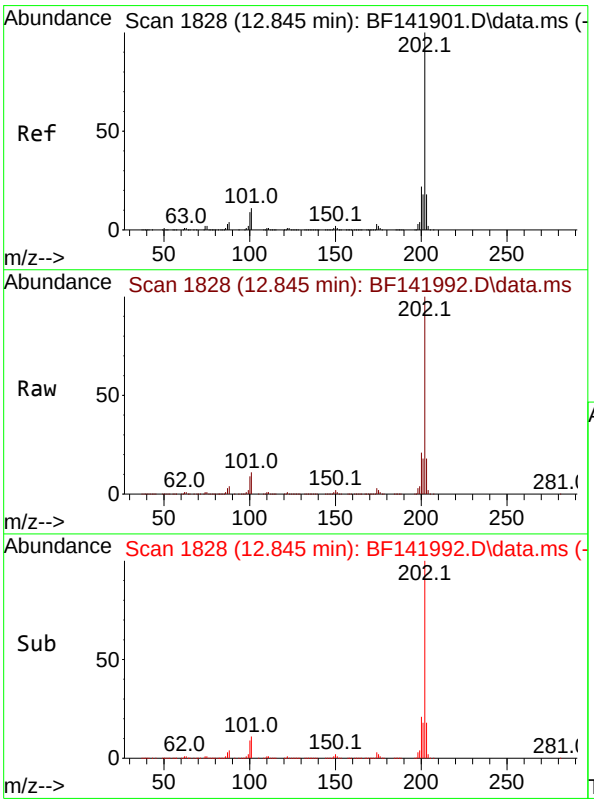
#77
Benzidine
Concen: 13.777 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:184 Resp: 64248

Ion	Ratio	Lower	Upper
184	100		
185	15.3	11.5	17.3
183	11.5	9.7	14.5

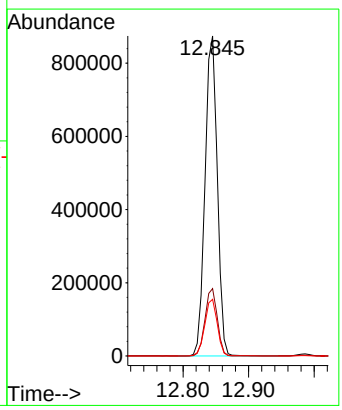


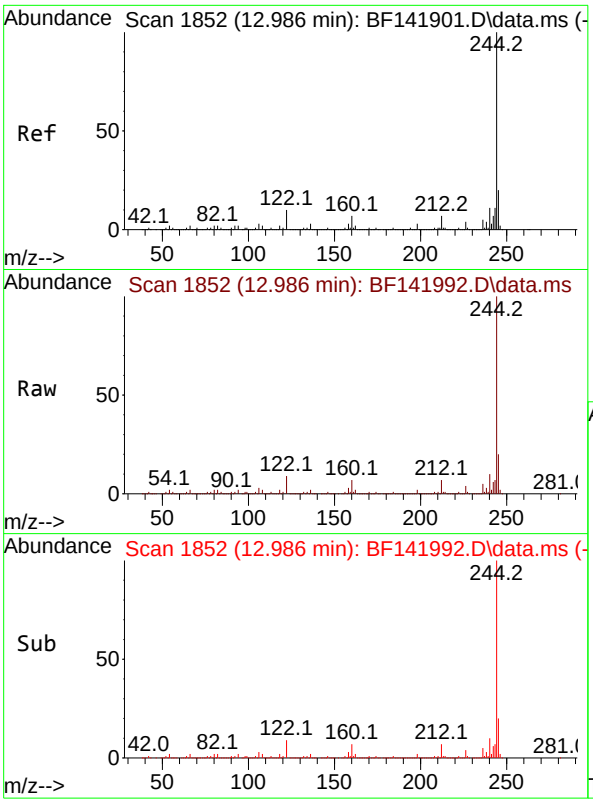


#78
Pyrene
Concen: 39.395 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:202 Resp: 1139056

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.3	25.9
203	17.7	14.4	21.6



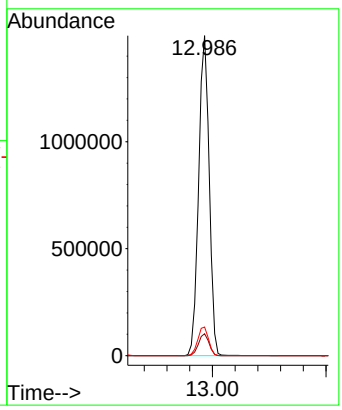


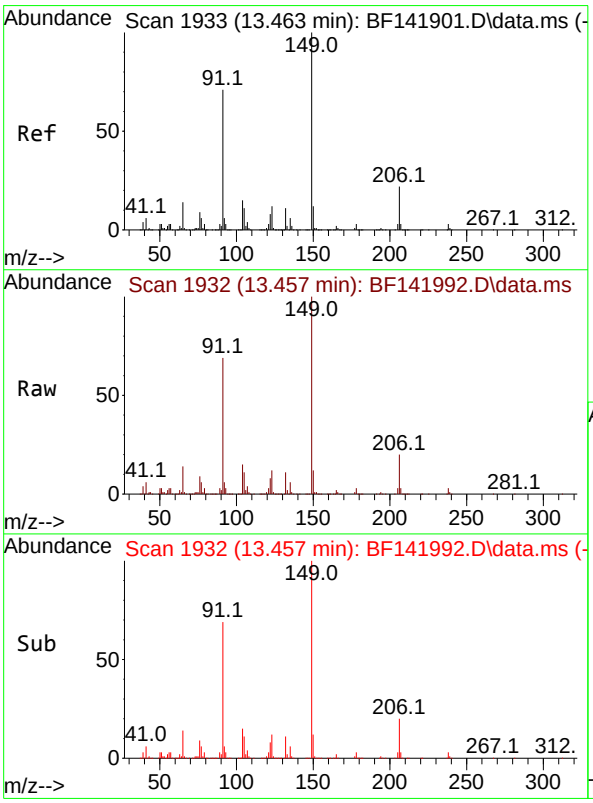
#79
Terphenyl-d14
Concen: 85.410 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:244 Resp: 1930998

Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	8.9	7.7	11.5

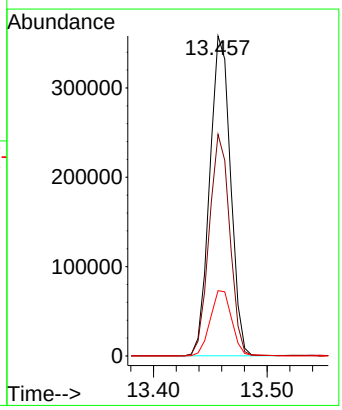


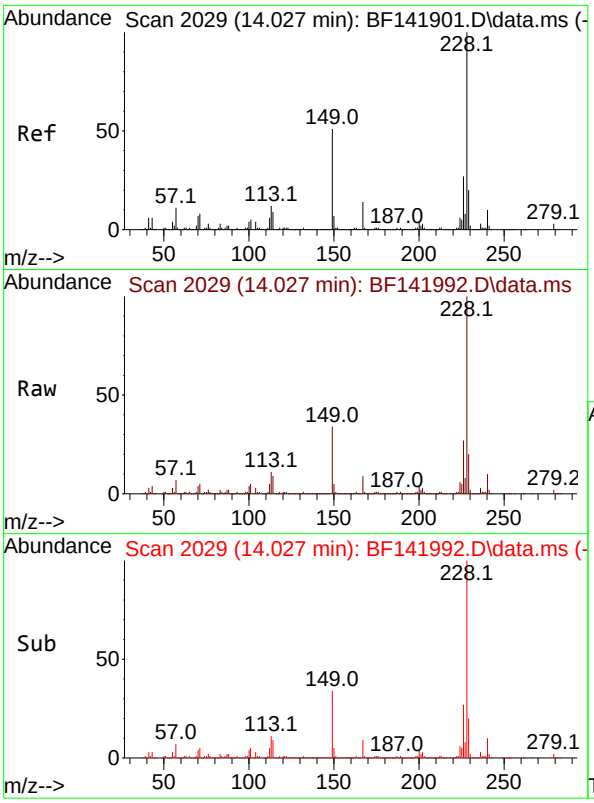


#80
Butylbenzylphthalate
Concen: 40.294 ng
RT: 13.457 min Scan# 1932
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:149 Resp: 456006

Ion	Ratio	Lower	Upper
149	100		
91	69.3	56.5	84.7
206	20.4	17.3	25.9



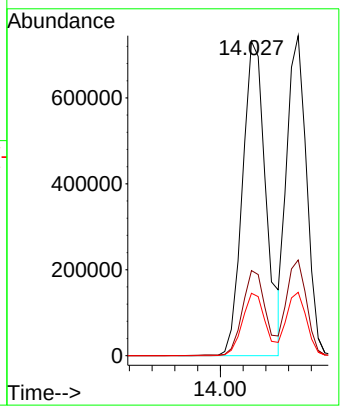


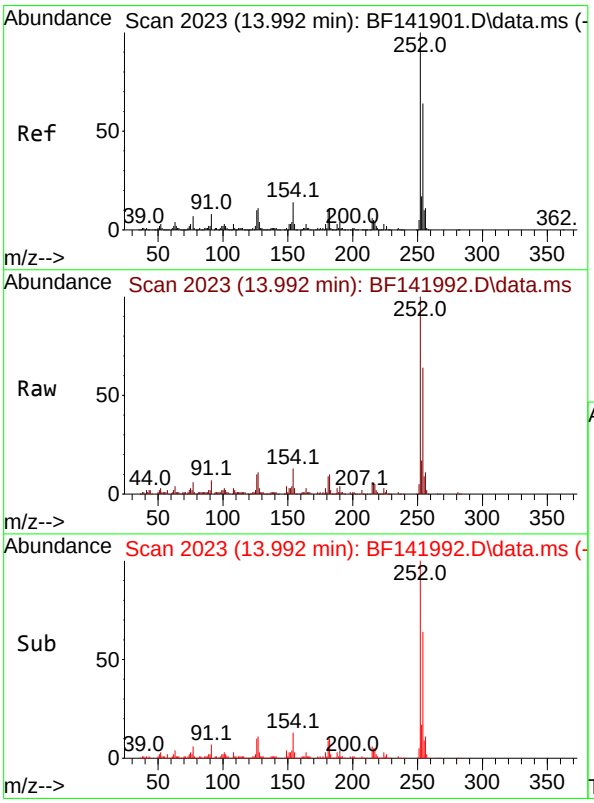
#81
Benzo(a)anthracene
Concen: 47.692 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:228 Resp: 1046091

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.9	16.0	24.0

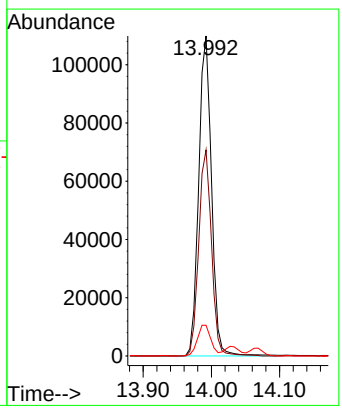


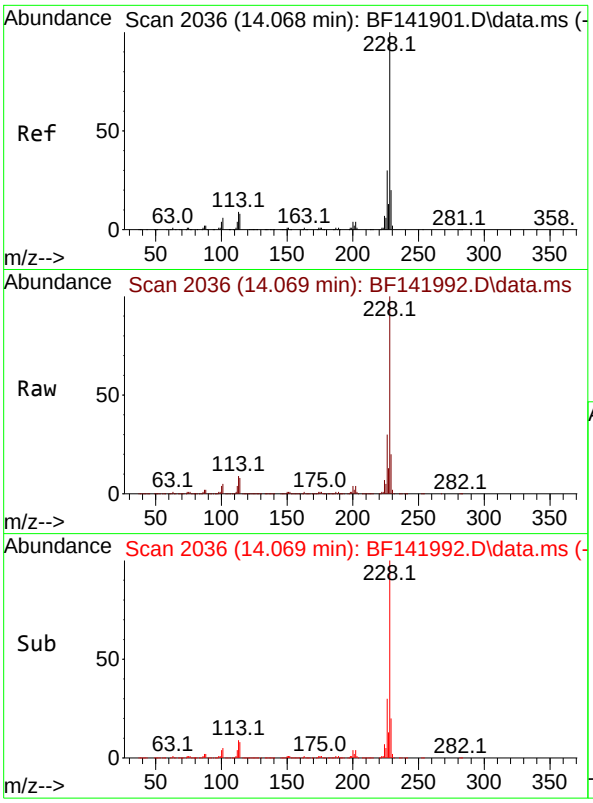


#82
3,3'-Dichlorobenzidine
Concen: 22.640 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:252 Resp: 143508

Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.0	76.6
126	9.6	8.4	12.6



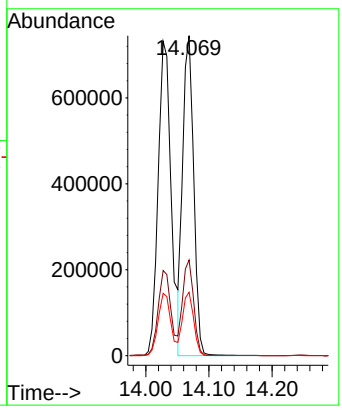


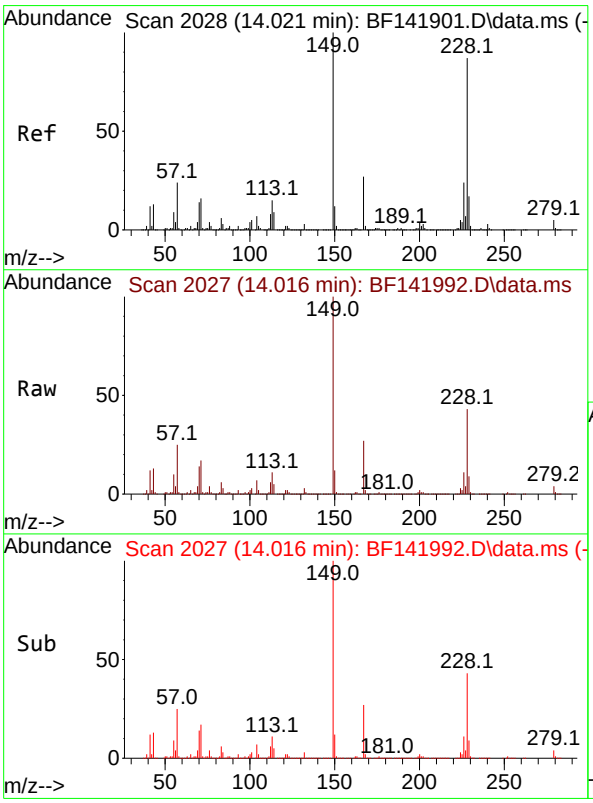
#83
Chrysene
Concen: 45.393 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:228 Resp: 902529

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.1	36.1
229	19.8	15.7	23.5

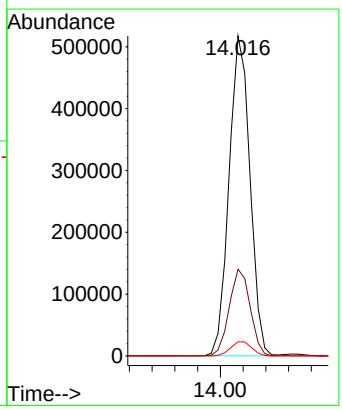


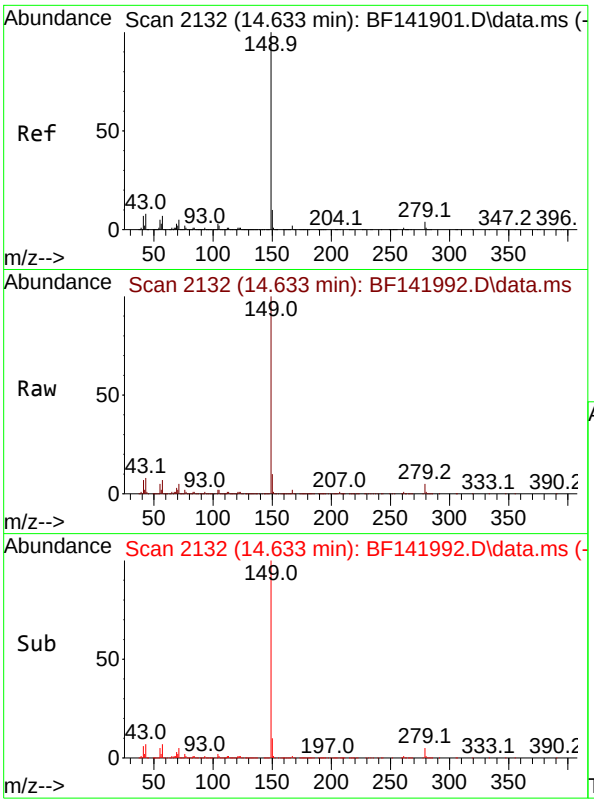


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.317 ng
RT: 14.016 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:149 Resp: 660288

Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.4	32.0
279	4.4	3.8	5.6



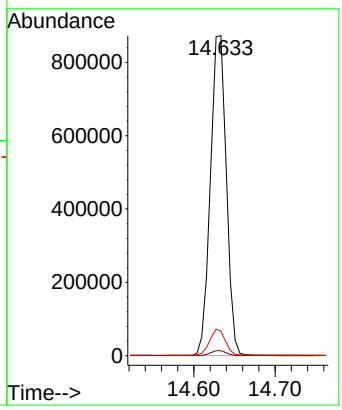


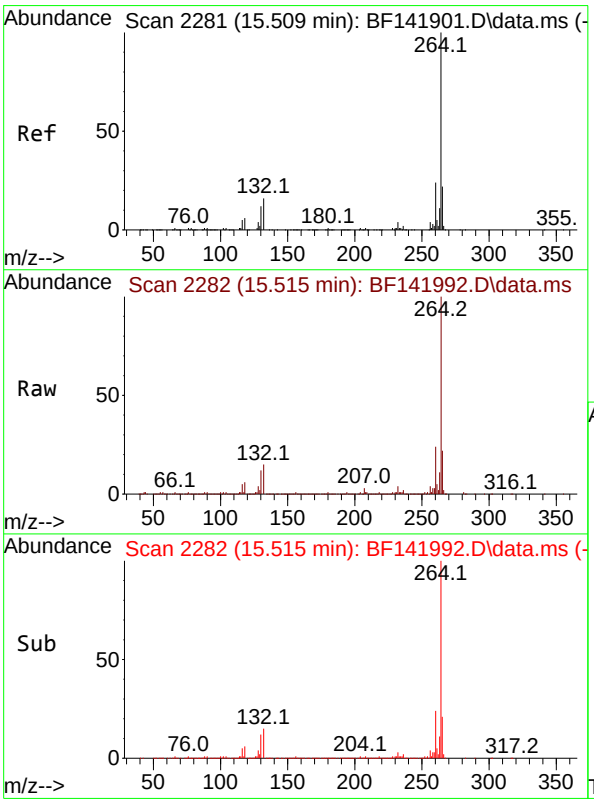
#85
Di-n-octyl phthalate
Concen: 54.798 ng
RT: 14.633 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:149 Resp: 1189713

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.8	6.9	10.3

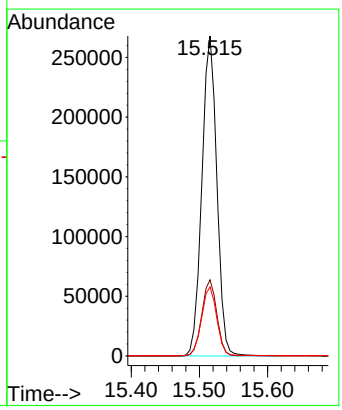


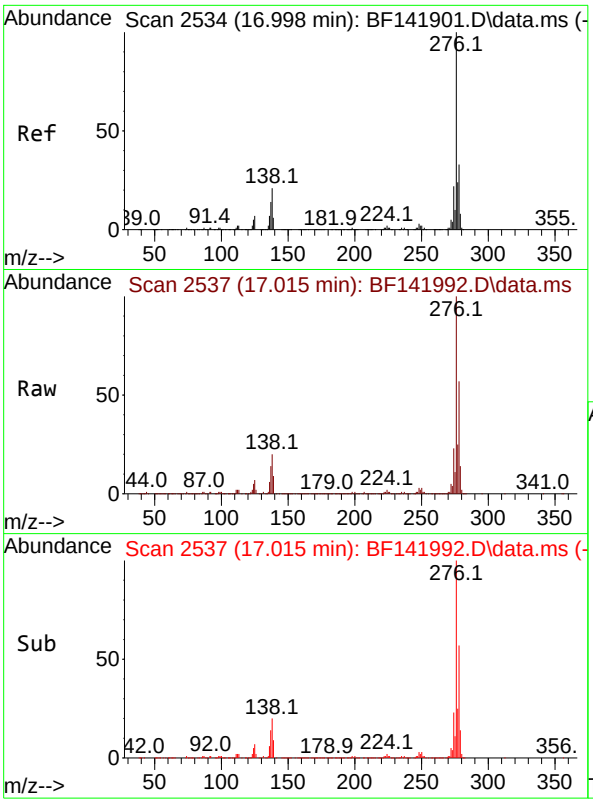


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:264 Resp: 409135

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.1	28.7
265	21.6	17.5	26.3



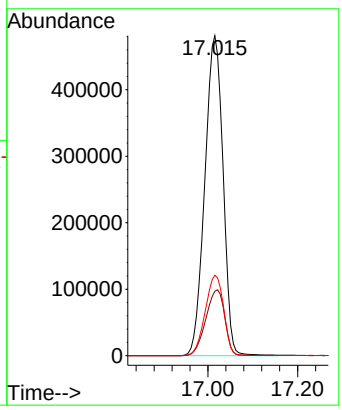


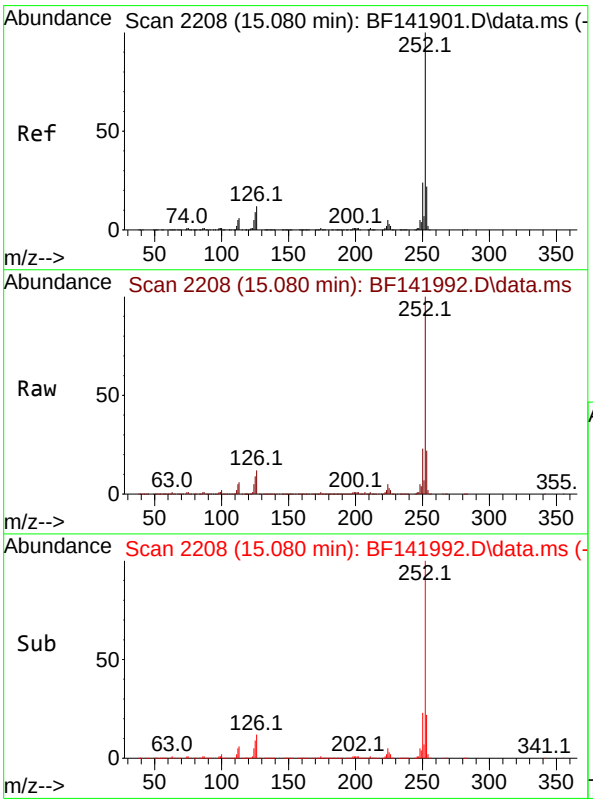
#87
Indeno(1,2,3-cd)pyrene
Concen: 51.205 ng
RT: 17.015 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:276 Resp: 1355219

Ion	Ratio	Lower	Upper
276	100		
138	21.4	18.4	27.6
277	25.5	20.3	30.5

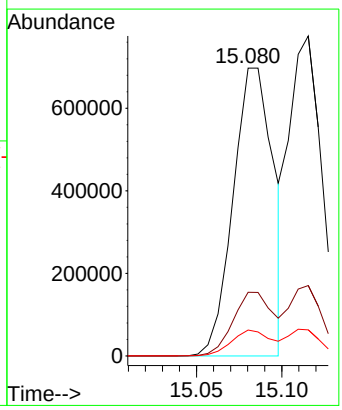


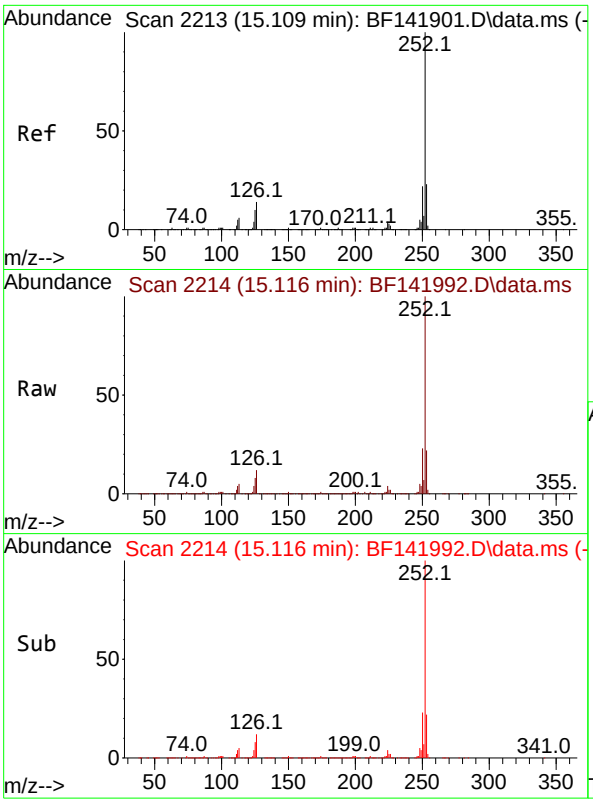


#88
Benzo(b)fluoranthene
Concen: 40.896 ng
RT: 15.080 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:252 Resp: 1146744

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.0	7.0	10.4



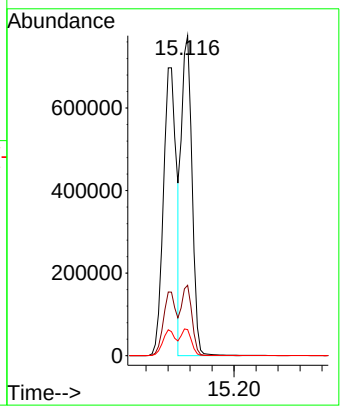


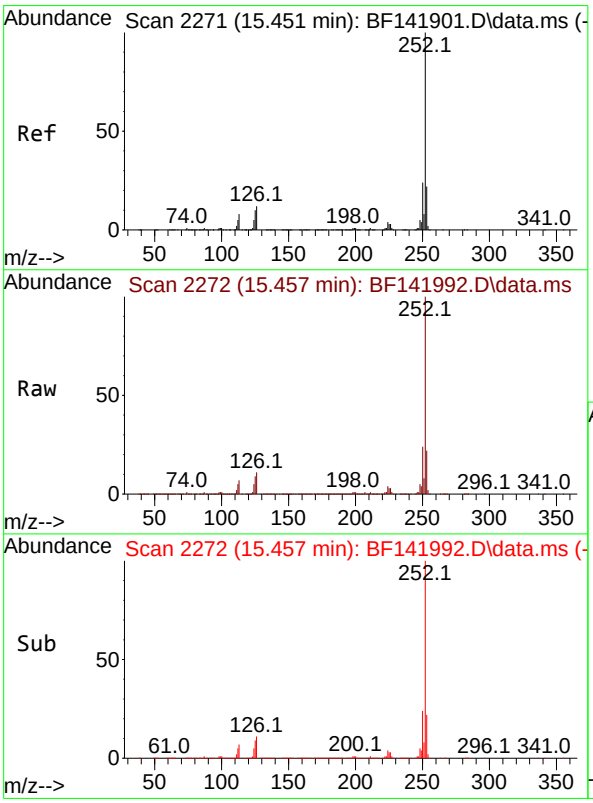
#89
Benzo(k)fluoranthene
Concen: 43.262 ng
RT: 15.116 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:252 Resp: 1038112

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	8.2	7.2	10.8

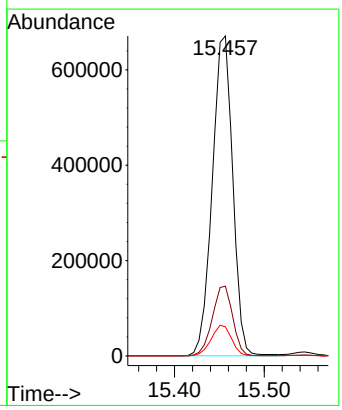


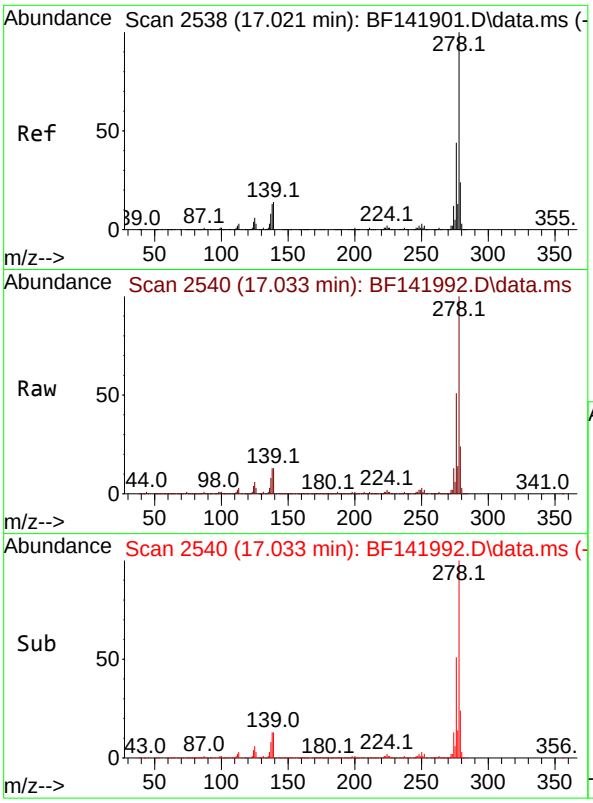


#90
Benzo(a)pyrene
Concen: 48.497 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:252 Resp: 1064045

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0
125	9.1	7.8	11.8



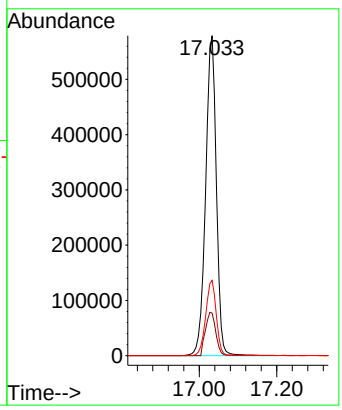


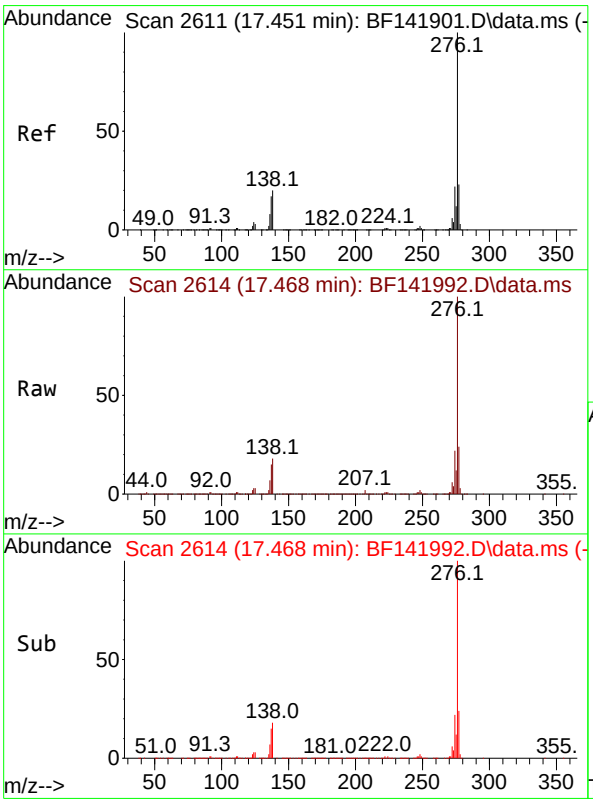
#91
Dibenzo(a,h)anthracene
Concen: 50.924 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MS

Tgt Ion:278 Resp: 1112019

Ion	Ratio	Lower	Upper
278	100		
139	13.3	11.4	17.2
279	23.5	18.8	28.2

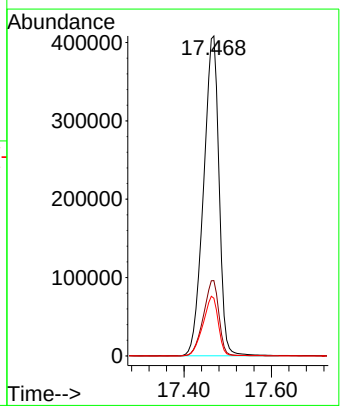




#92
Benzo(g,h,i)perylene
Concen: 46.569 ng
RT: 17.468 min Scan# 2614
Delta R.T. 0.018 min
Lab File: BF141992.D
Acq: 18 Mar 2025 13:01

Tgt Ion:276 Resp: 1004916

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.7	28.1
138	18.0	15.8	23.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141993.D
Acq On : 18 Mar 2025 13:31
Operator : RC/JU
Sample : Q1568-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Quant Time: Mar 18 14:02:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	138565	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	535417	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	298567	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	470466	20.000	ng		0.00
76) Chrysene-d12	14.039	240	320562	20.000	ng		0.00
86) Perylene-d12	15.516	264	374866	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	1051904	126.698	ng		0.02
7) Phenol-d6	6.510	99	1186613	112.253	ng		0.00
23) Nitrobenzene-d5	7.440	82	919626	96.659	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	547526	144.553	ng		0.00
45) 2-Fluorobiphenyl	9.234	172	1947912	99.221	ng		0.00
79) Terphenyl-d14	12.986	244	1857933	85.689	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.840	88	146493	42.111	ng	#	83
3) Pyridine	3.563	79	273215	32.018	ng		97
4) n-Nitrosodimethylamine	3.487	42	164232	40.375	ng		96
6) Aniline	6.546	93	135605	13.004	ng		99
8) 2-Chlorophenol	6.669	128	403907	43.864	ng		98
9) Benzaldehyde	6.434	77	60077	10.162	ng		97
10) Phenol	6.522	94	399017	35.880	ng		99
11) bis(2-Chloroethyl)ether	6.616	93	362129	43.366	ng		98
12) 1,3-Dichlorobenzene	6.822	146	428325	43.086	ng		99
13) 1,4-Dichlorobenzene	6.898	146	435945	43.342	ng		99
14) 1,2-Dichlorobenzene	7.051	146	417522	44.071	ng		98
15) Benzyl Alcohol	7.016	79	359681	42.088	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	400292	39.706	ng		98
17) 2-Methylphenol	7.128	107	315654	43.114	ng		99
18) Hexachloroethane	7.393	117	161459	42.807	ng		97
19) n-Nitroso-di-n-propyla...	7.293	70	275937	40.624	ng		99
20) 3+4-Methylphenols	7.281	107	394412	42.058	ng	#	83
22) Acetophenone	7.287	105	619784	48.338	ng		98
24) Nitrobenzene	7.463	77	417210	44.111	ng		98
25) Isophorone	7.698	82	758880	45.124	ng		99
26) 2-Nitrophenol	7.775	139	216360	46.608	ng		99
27) 2,4-Dimethylphenol	7.810	122	349454	54.671	ng		99
28) bis(2-Chloroethoxy)met...	7.904	93	463580	43.949	ng		99
29) 2,4-Dichlorophenol	8.016	162	355926	44.861	ng		99
30) 1,2,4-Trichlorobenzene	8.098	180	386209	44.171	ng		99
31) Naphthalene	8.181	128	1188930	43.228	ng		100
32) Benzoic acid	7.922	122	253463	45.110	ng		99
33) 4-Chloroaniline	8.228	127	52746	5.433	ng		98
34) Hexachlorobutadiene	8.298	225	257669	45.189	ng		100
35) Caprolactam	8.592	113	66884	27.651	ng		91
36) 4-Chloro-3-methylphenol	8.710	107	379366	42.865	ng		98
37) 2-Methylnaphthalene	8.875	142	784913	42.696	ng		99
38) 1-Methylnaphthalene	8.969	142	760948	42.894	ng		99
40) 1,2,4,5-Tetrachloroben...	9.039	216	466352	51.303	ng		99
41) Hexachlorocyclopentadiene	9.028	237	552351	155.263	ng		100
43) 2,4,6-Trichlorophenol	9.151	196	271244	45.658	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141993.D
Acq On : 18 Mar 2025 13:31
Operator : RC/JU
Sample : Q1568-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Quant Time: Mar 18 14:02:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

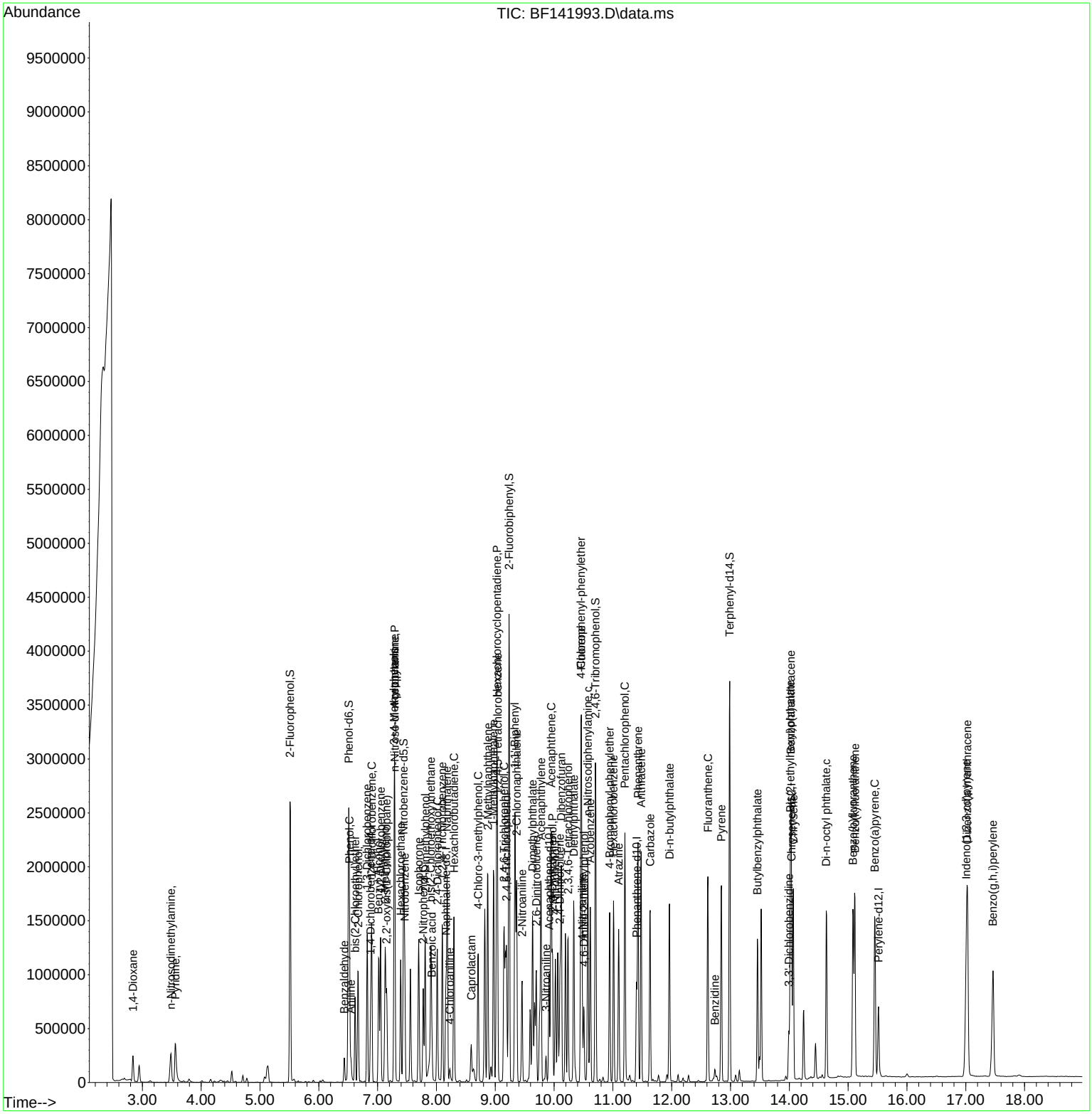
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	2,4,5-Trichlorophenol	9.192	196	281314	46.754	ng		98
46)	1,1'-Biphenyl	9.334	154	1147658	50.590	ng		100
47)	2-Chloronaphthalene	9.363	162	776730	45.937	ng		99
48)	2-Nitroaniline	9.457	65	217153	44.355	ng		96
49)	Acenaphthylene	9.781	152	1197410	47.721	ng		99
50)	Dimethylphthalate	9.634	163	924934	44.238	ng		100
51)	2,6-Dinitrotoluene	9.698	165	198413	45.578	ng		93
52)	Acenaphthene	9.951	154	893147	50.651	ng		99
53)	3-Nitroaniline	9.863	138	53697	12.160	ng		97
54)	2,4-Dinitrophenol	9.975	184	231559	92.501	ng	#	45
55)	Dibenzofuran	10.122	168	1090329	43.274	ng		99
56)	4-Nitrophenol	10.022	139	263665	79.177	ng		97
57)	2,4-Dinitrotoluene	10.098	165	267316	47.015	ng		99
58)	Fluorene	10.463	166	861532	44.339	ng		99
59)	2,3,4,6-Tetrachlorophenol	10.239	232	242183	44.233	ng		98
60)	Diethylphthalate	10.334	149	894203	42.892	ng		99
61)	4-Chlorophenyl-phenyle...	10.457	204	454829	44.899	ng		97
62)	4-Nitroaniline	10.481	138	162752	37.858	ng		98
63)	Azobenzene	10.616	77	807900	41.682	ng		98
65)	4,6-Dinitro-2-methylph...	10.510	198	139678	49.802	ng		95
66)	n-Nitrosodiphenylamine	10.575	169	729426	47.911	ng		100
67)	4-Bromophenyl-phenylether	10.945	248	283205	47.932	ng		99
68)	Hexachlorobenzene	11.010	284	324295	50.043	ng		98
69)	Atrazine	11.098	200	264785	56.733	ng		99
70)	Pentachlorophenol	11.204	266	376512	94.300	ng		100
71)	Phenanthrene	11.428	178	1184936	46.630	ng		99
72)	Anthracene	11.480	178	1202057	47.150	ng		100
73)	Carbazole	11.633	167	944218	42.945	ng		99
74)	Di-n-butylphthalate	11.963	149	1246779	42.737	ng		99
75)	Fluoranthene	12.616	202	1106426	41.046	ng		99
77)	Benzidine	12.733	184	68935	15.413	ng		99
78)	Pyrene	12.845	202	1093026	39.418	ng		99
80)	Butylbenzylphthalate	13.457	149	433069	39.902	ng		99
81)	Benzo(a)anthracene	14.027	228	1010312	48.029	ng		99
82)	3,3'-Dichlorobenzidine	13.992	252	136983	22.534	ng		99
83)	Chrysene	14.069	228	864000	45.312	ng		100
84)	Bis(2-ethylhexyl)phtha...	14.016	149	624421	41.728	ng		99
85)	Di-n-octyl phthalate	14.627	149	1106352	53.136	ng		98
87)	Indeno(1,2,3-cd)pyrene	17.010	276	1247538	51.446	ng		98
88)	Benzo(b)fluoranthene	15.080	252	1074570	41.826	ng		100
89)	Benzo(k)fluoranthene	15.116	252	939725	42.742	ng		99
90)	Benzo(a)pyrene	15.451	252	967379	48.122	ng		100
91)	Dibenzo(a,h)anthracene	17.027	278	1013729	50.667	ng		99
92)	Benzo(g,h,i)perylene	17.462	276	927863	46.929	ng		97

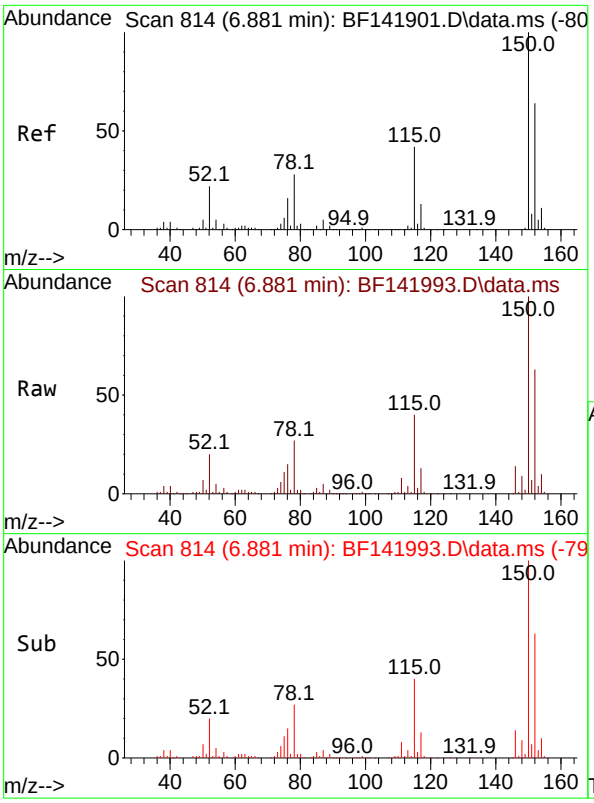
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031825\
Data File : BF141993.D
Acq On : 18 Mar 2025 13:31
Operator : RC/JU
Sample : Q1568-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Quant Time: Mar 18 14:02:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration



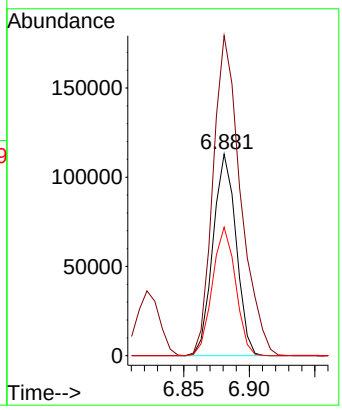


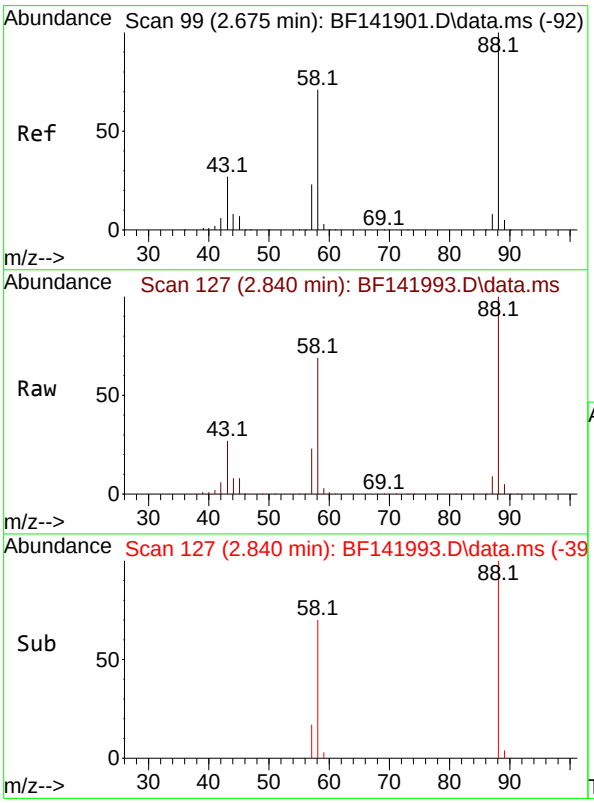
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:152 Resp: 138565

Ion	Ratio	Lower	Upper
152	100		
150	158.7	127.4	191.2
115	63.7	51.9	77.9

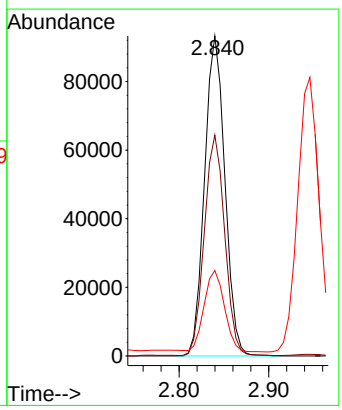


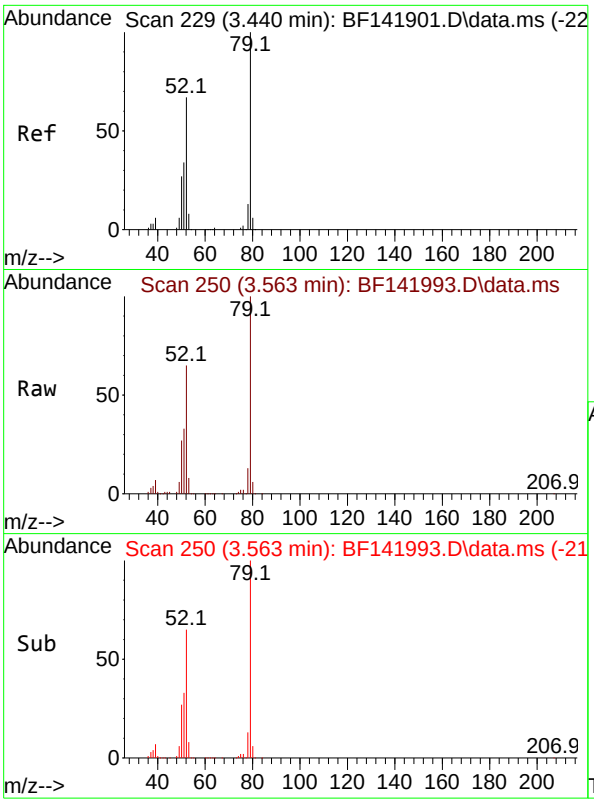


#2
1,4-Dioxane
Concen: 42.111 ng
RT: 2.840 min Scan# 127
Delta R.T. 0.165 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 88 Resp: 146493

Ion	Ratio	Lower	Upper
88	100		
58	69.1	57.4	86.2
43	0.0	21.5	32.3#



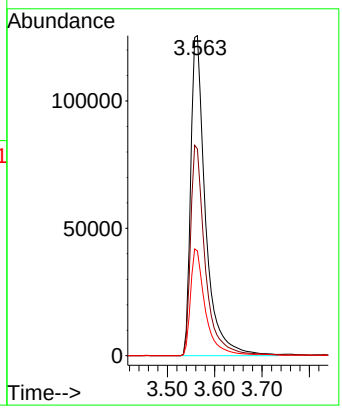


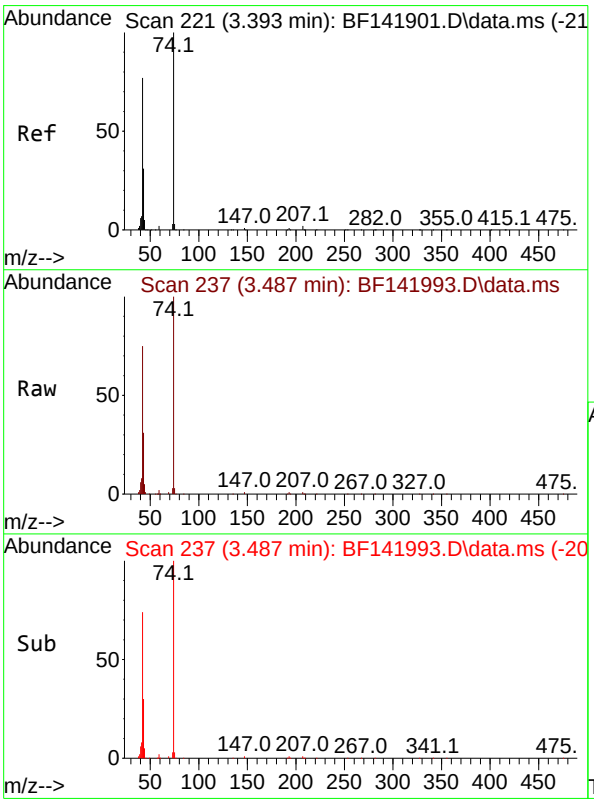
#3
Pyridine
Concen: 32.018 ng
RT: 3.563 min Scan# 2
Delta R.T. 0.124 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion: 79 Resp: 273215

Ion	Ratio	Lower	Upper
79	100		
52	64.6	53.3	79.9
51	32.7	27.6	41.4

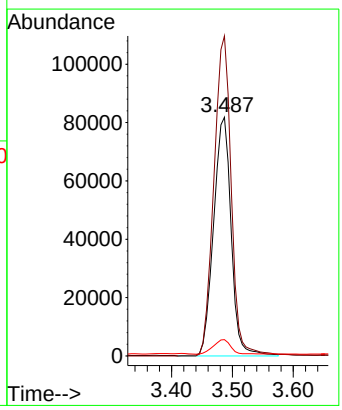


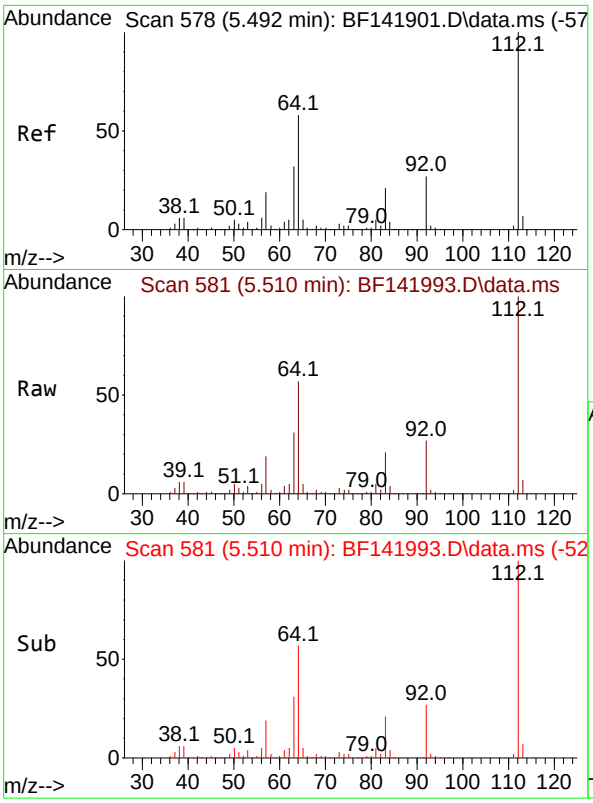


#4
n-Nitrosodimethylamine
Concen: 40.375 ng
RT: 3.487 min Scan# 237
Delta R.T. 0.094 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 42 Resp: 164232

Ion	Ratio	Lower	Upper
42	100		
74	134.0	103.4	155.0
44	6.9	5.0	7.4



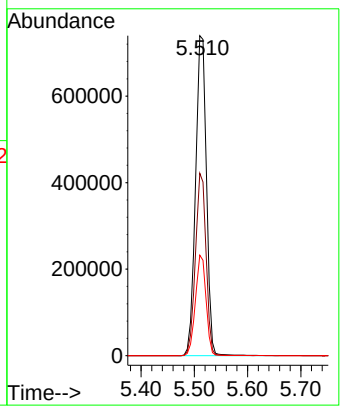


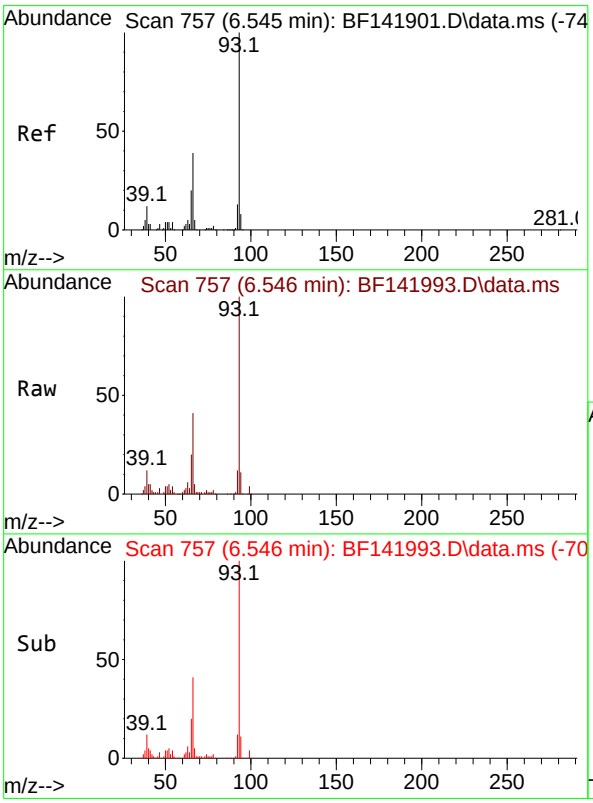
#5
2-Fluorophenol
Concen: 126.698 ng
RT: 5.510 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:112 Resp: 1051904

Ion	Ratio	Lower	Upper
112	100		
64	57.0	46.5	69.7
63	31.4	25.4	38.2

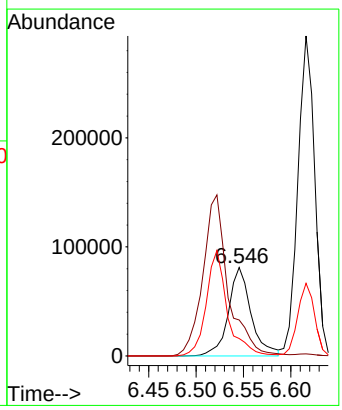


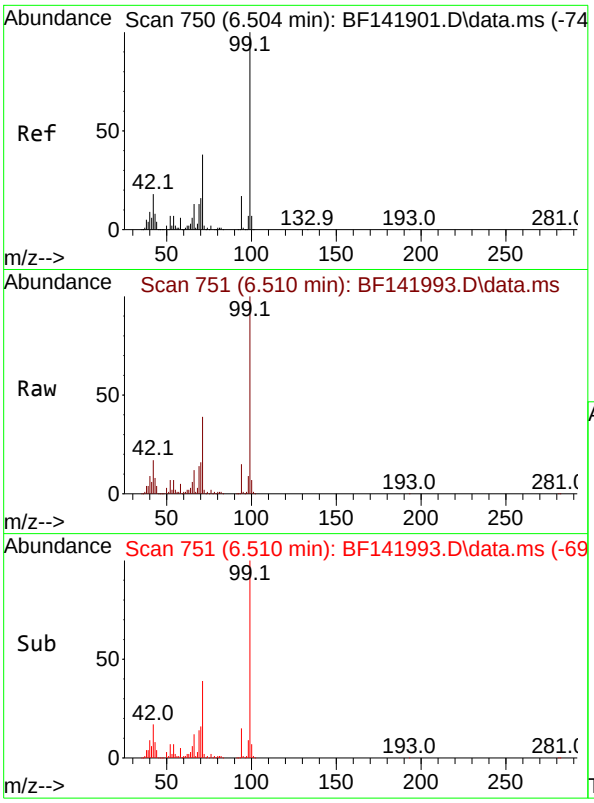


#6
Aniline
Concen: 13.004 ng
RT: 6.546 min Scan# 757
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 93 Resp: 135605

Ion	Ratio	Lower	Upper
93	100		
66	40.8	31.9	47.9
65	19.7	15.8	23.6



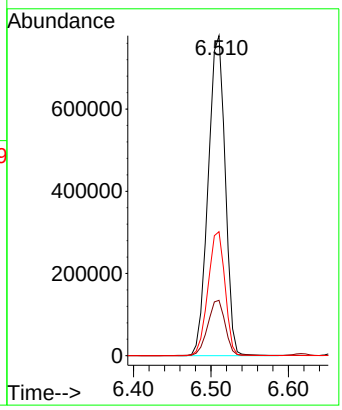


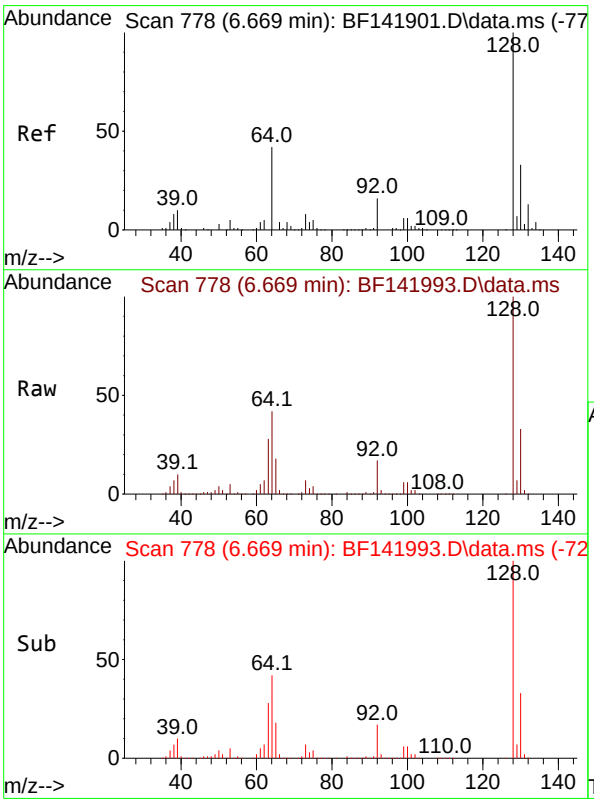
#7
Phenol-d6
Concen: 112.253 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion: 99 Resp: 1186613

Ion	Ratio	Lower	Upper
99	100		
42	17.3	14.6	21.8
71	38.8	30.8	46.2

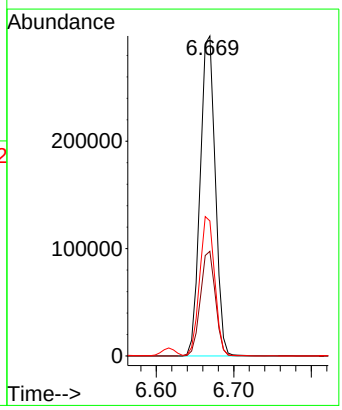


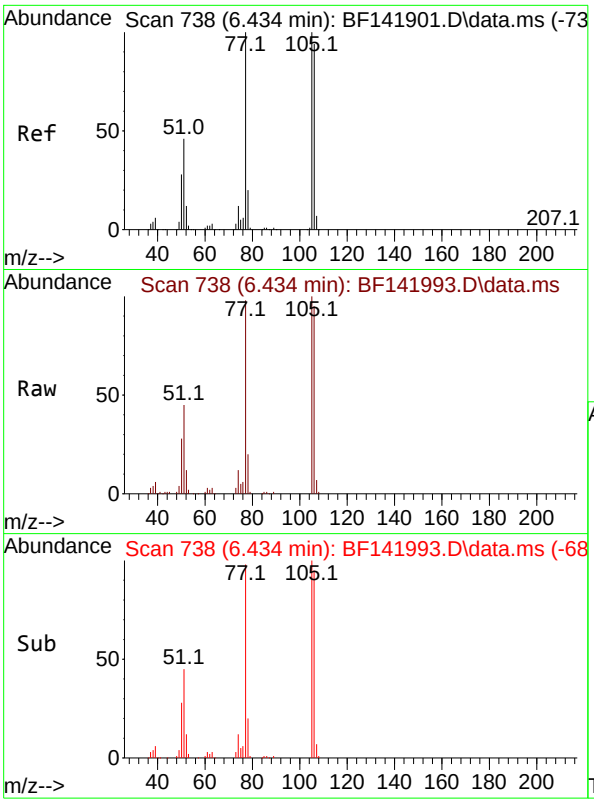


#8
2-Chlorophenol
Concen: 43.864 ng
RT: 6.669 min Scan# 778
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:128 Resp: 403907

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.8	52.8
64	42.2	24.4	64.4



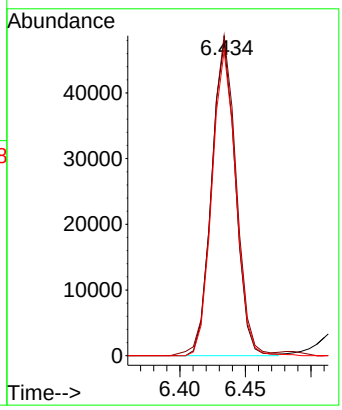


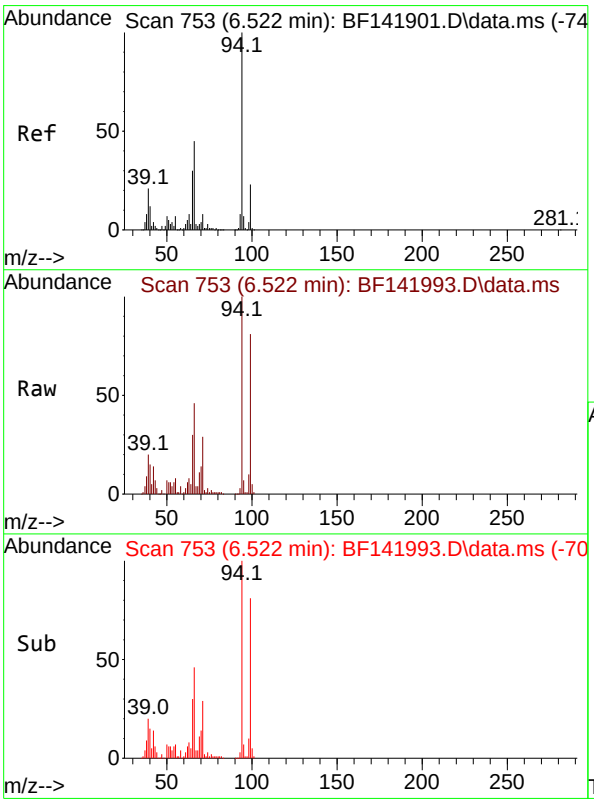
#9
Benzaldehyde
Concen: 10.162 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion: 77 Resp: 60077

Ion	Ratio	Lower	Upper
77	100		
105	102.2	80.0	120.0
106	97.3	74.5	114.5

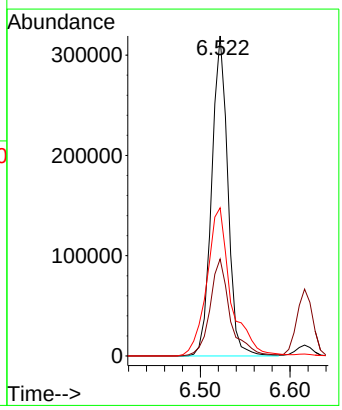


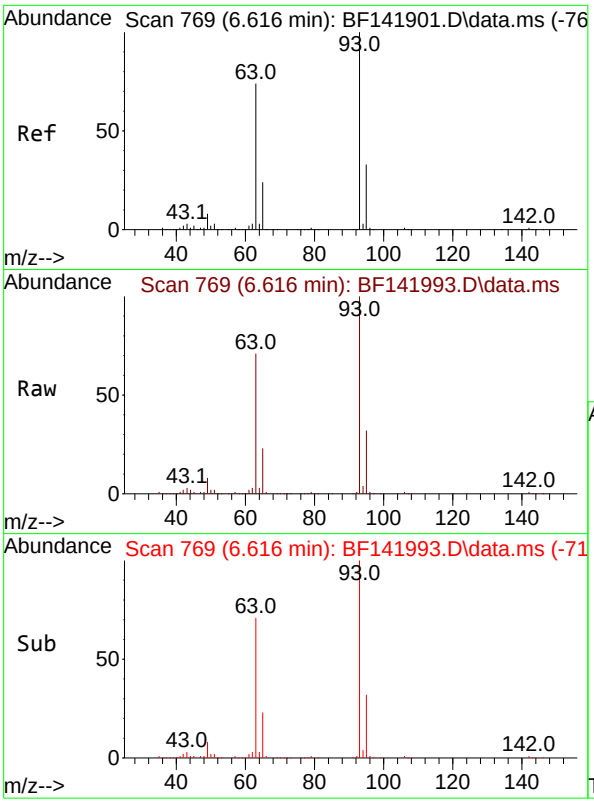


#10
Phenol
Concen: 35.880 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 94 Resp: 399017

Ion	Ratio	Lower	Upper
94	100		
65	30.3	10.5	50.5
66	46.3	25.8	65.8



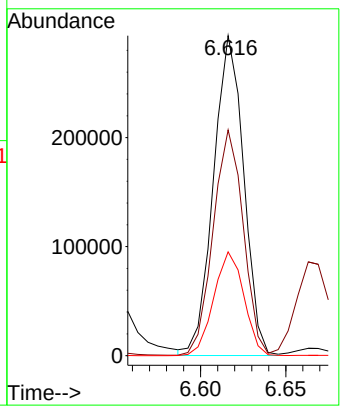


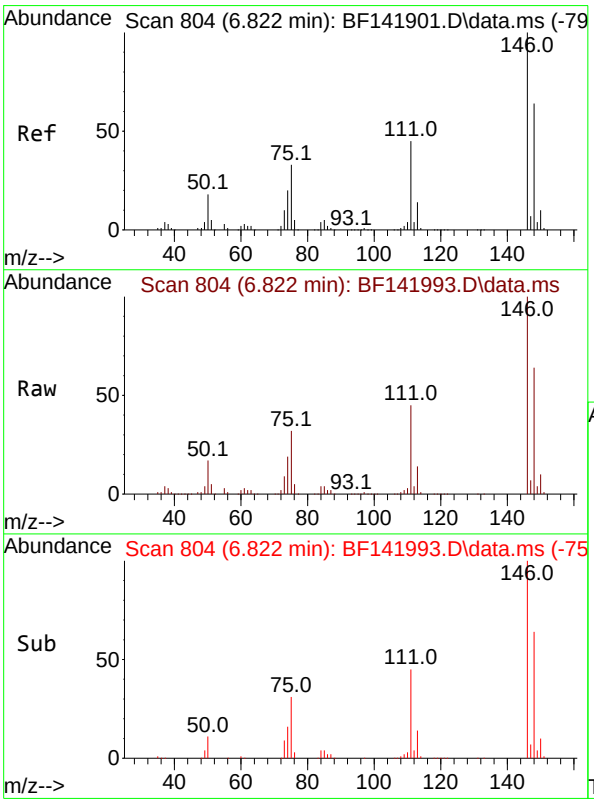
#11
bis(2-Chloroethyl)ether
Concen: 43.366 ng
RT: 6.616 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion: 93 Resp: 362129

Ion	Ratio	Lower	Upper
93	100		
63	70.6	53.0	93.0
95	32.5	12.9	52.9

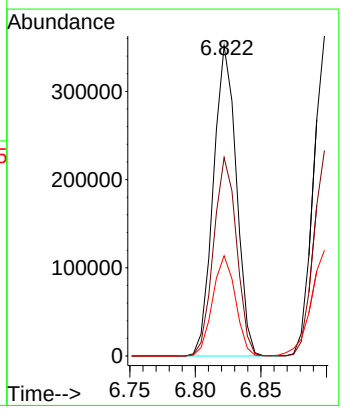


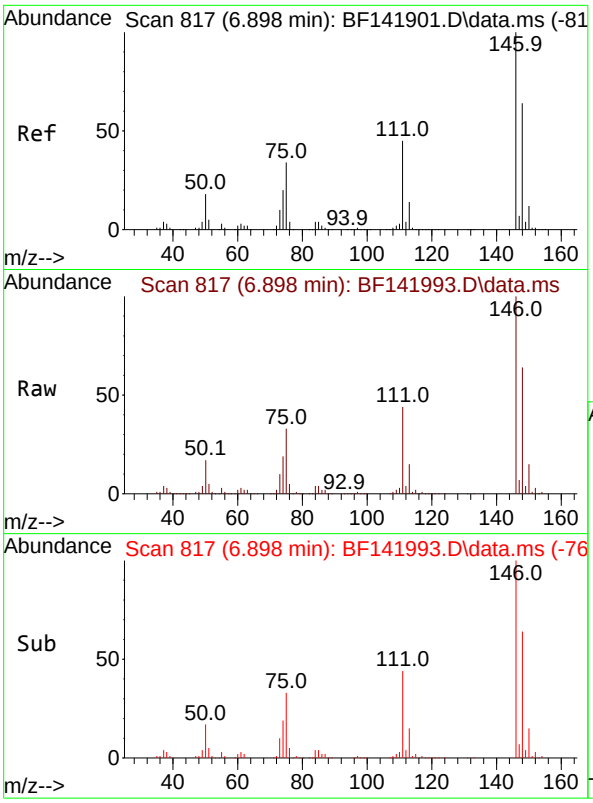


#12
1,3-Dichlorobenzene
Concen: 43.086 ng
RT: 6.822 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:146 Resp: 428325

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.3	76.9
75	32.3	26.6	40.0



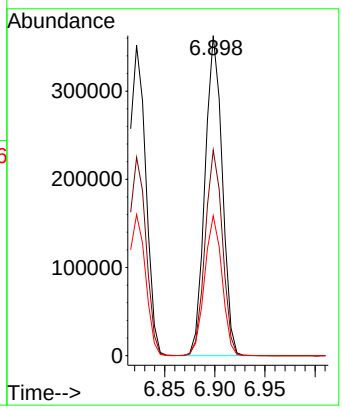


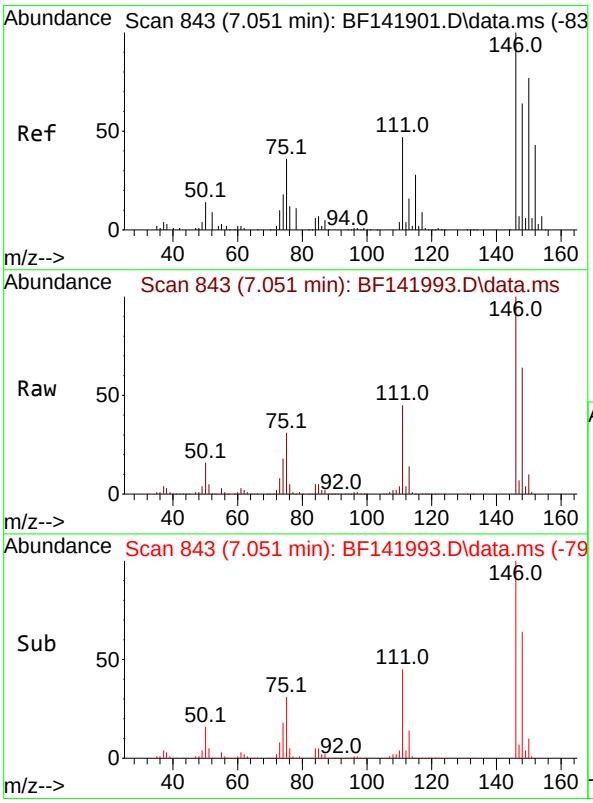
#13
1,4-Dichlorobenzene
Concen: 43.342 ng
RT: 6.898 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:146 Resp: 435945

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.0	76.6
111	43.7	35.7	53.5

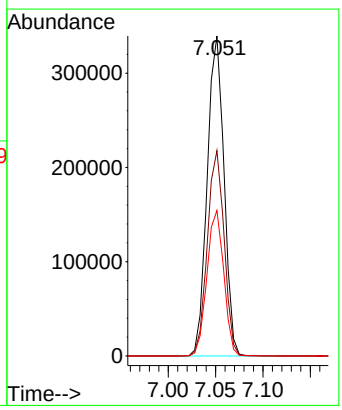


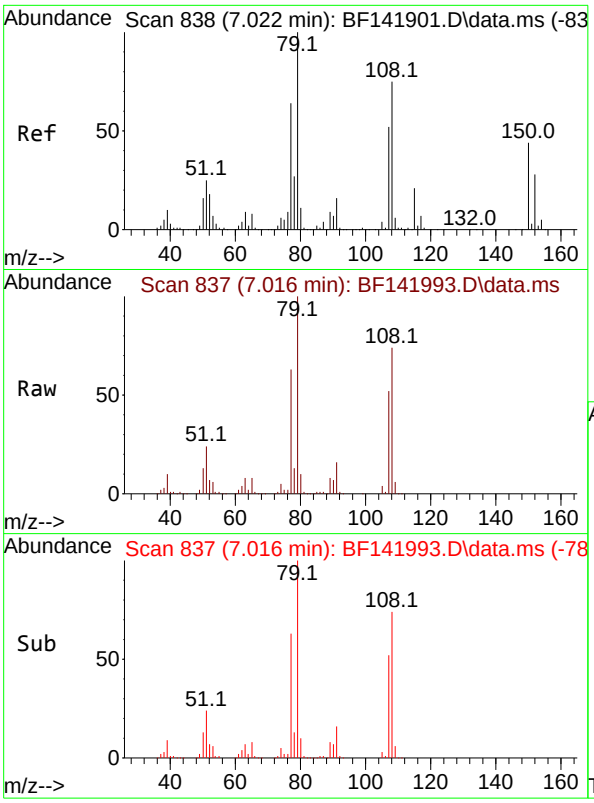


#14
1,2-Dichlorobenzene
Concen: 44.071 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:146 Resp: 417522

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.8	76.2
111	45.5	38.0	57.0



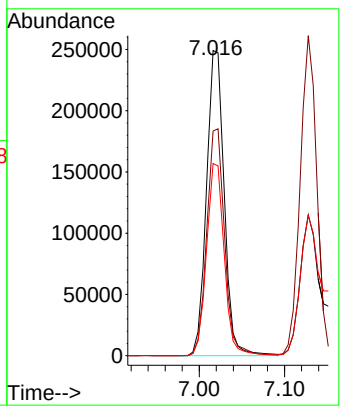


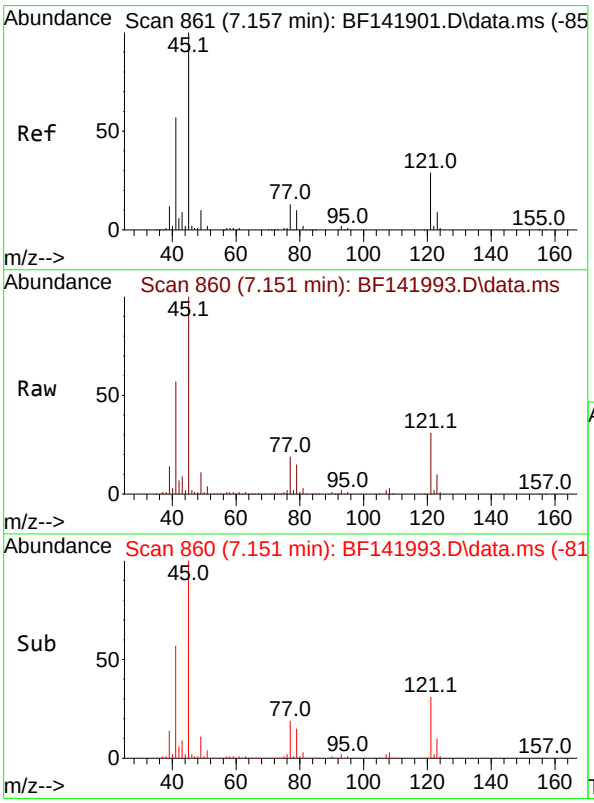
#15
Benzyl Alcohol
Concen: 42.088 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion: 79 Resp: 359681

Ion	Ratio	Lower	Upper
79	100		
108	73.6	59.7	89.5
77	63.0	51.0	76.6

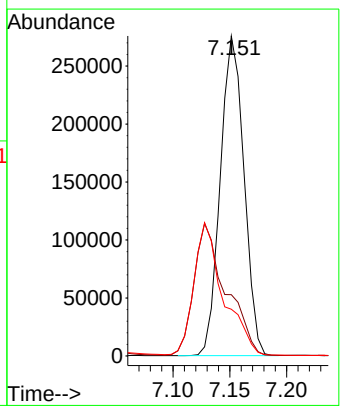


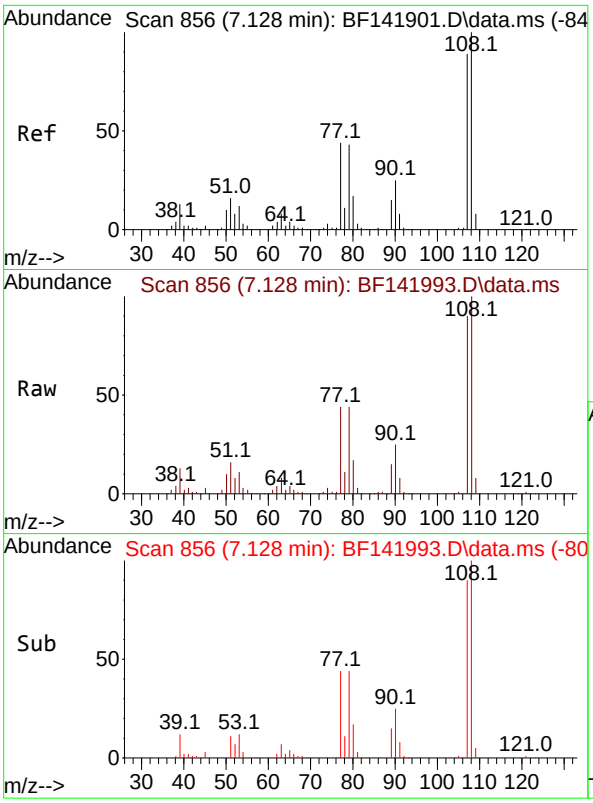


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.706 ng
RT: 7.151 min Scan# 860
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 45 Resp: 400292

Ion	Ratio	Lower	Upper
45	100		
77	19.2	0.0	37.8
79	14.6	0.0	34.2



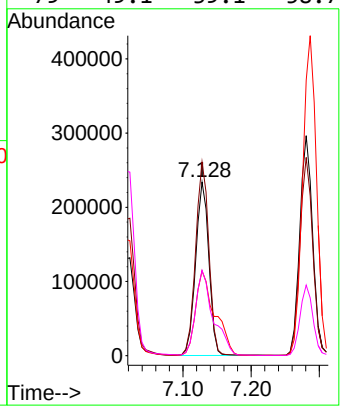


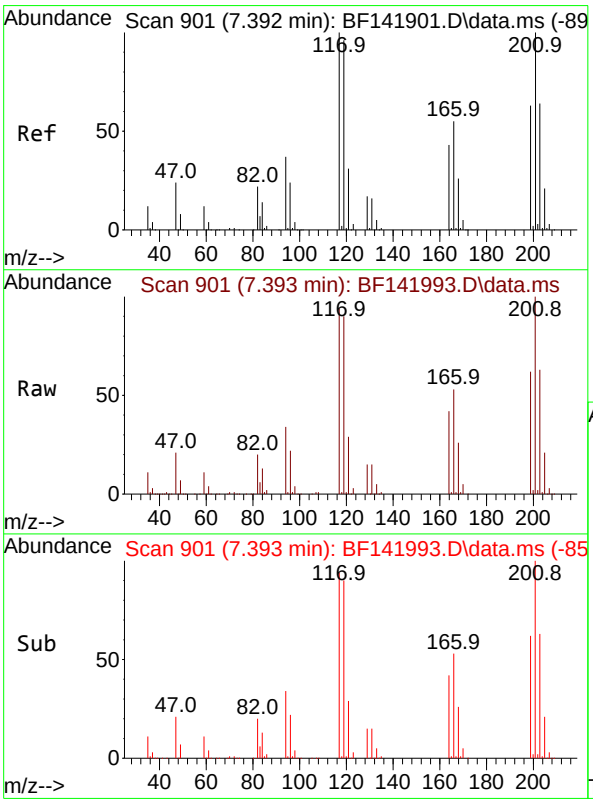
#17
2-Methylphenol
Concen: 43.114 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:107 Resp: 315654

Ion	Ratio	Lower	Upper
107	100		
108	111.7	90.2	135.2
77	48.9	39.6	59.4
79	49.1	39.1	58.7

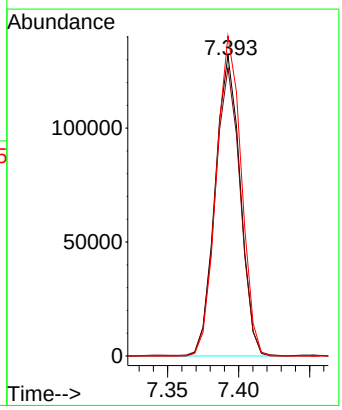


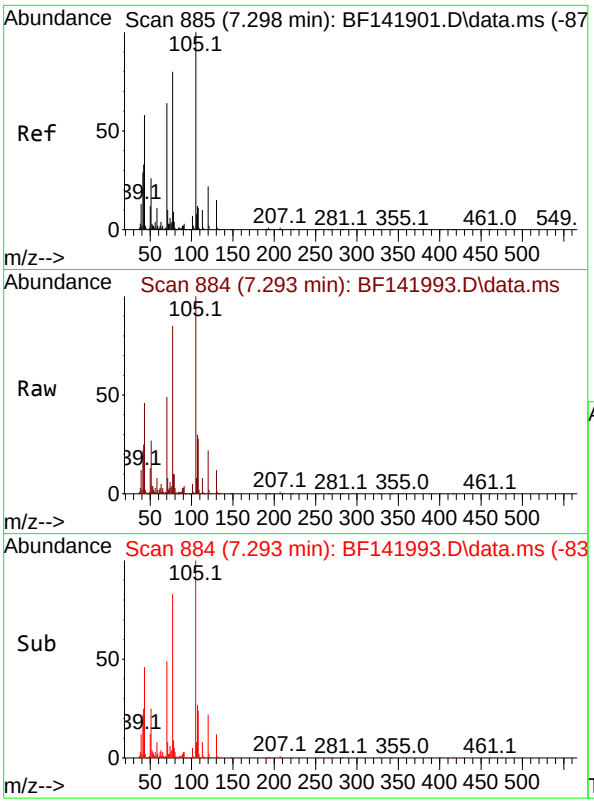


#18
Hexachloroethane
Concen: 42.807 ng
RT: 7.393 min Scan# 901
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:117 Resp: 161459

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.9	115.3
201	106.5	79.9	119.9



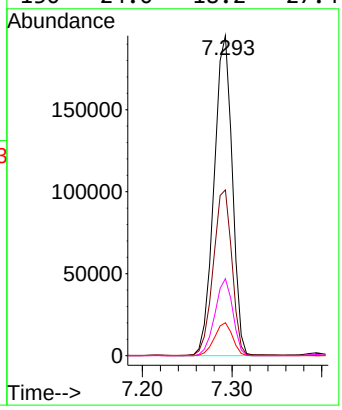


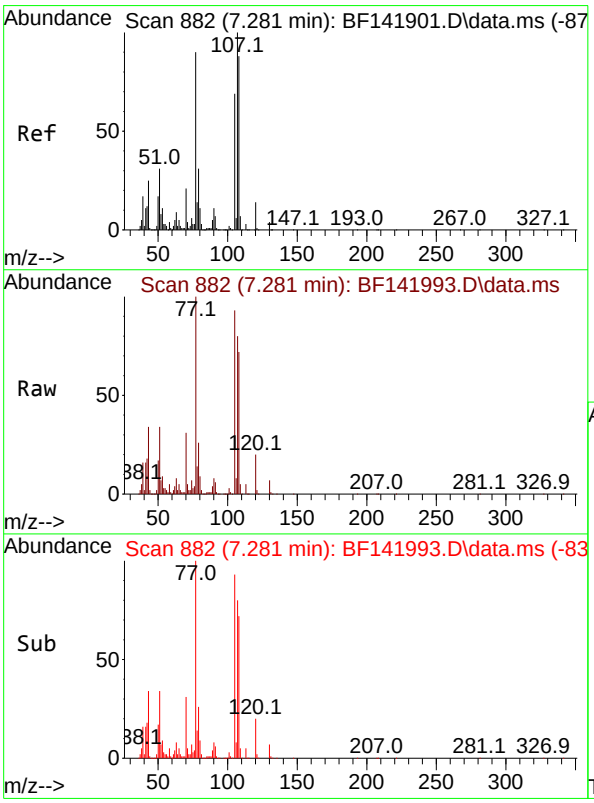
#19
n-Nitroso-di-n-propylamine
Concen: 40.624 ng
RT: 7.293 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion: 70 Resp: 275937

Ion	Ratio	Lower	Upper
70	100		
42	51.8	41.4	62.0
101	10.3	8.2	12.2
130	24.0	18.2	27.4

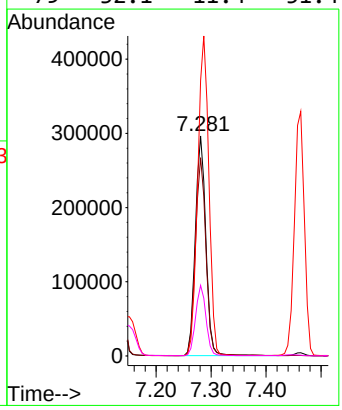


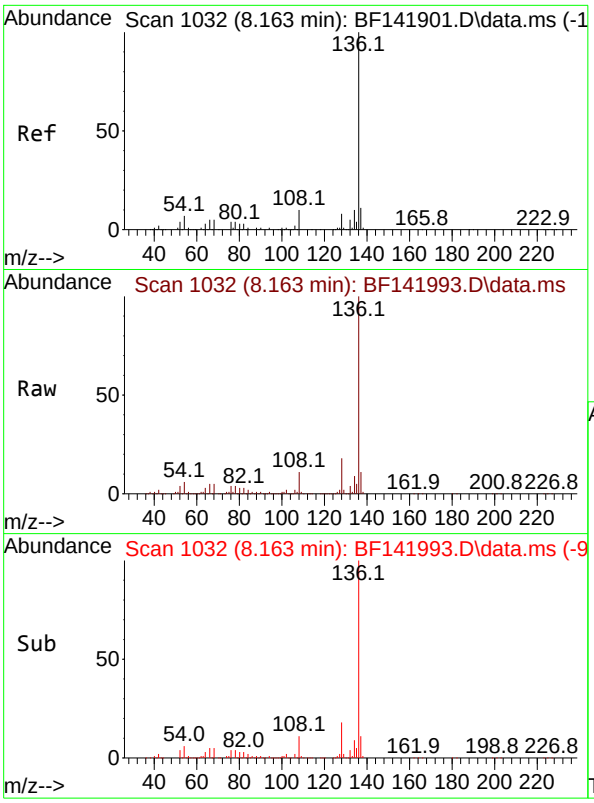


#20
3+4-Methylphenols
Concen: 42.058 ng
RT: 7.281 min Scan# 882
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:107 Resp: 394412

Ion	Ratio	Lower	Upper
107	100		
108	90.1	68.4	108.4
77	125.2	69.7	109.7#
79	32.1	11.4	51.4



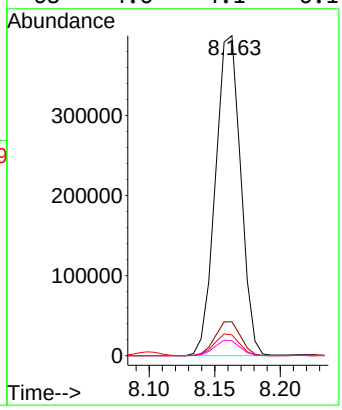


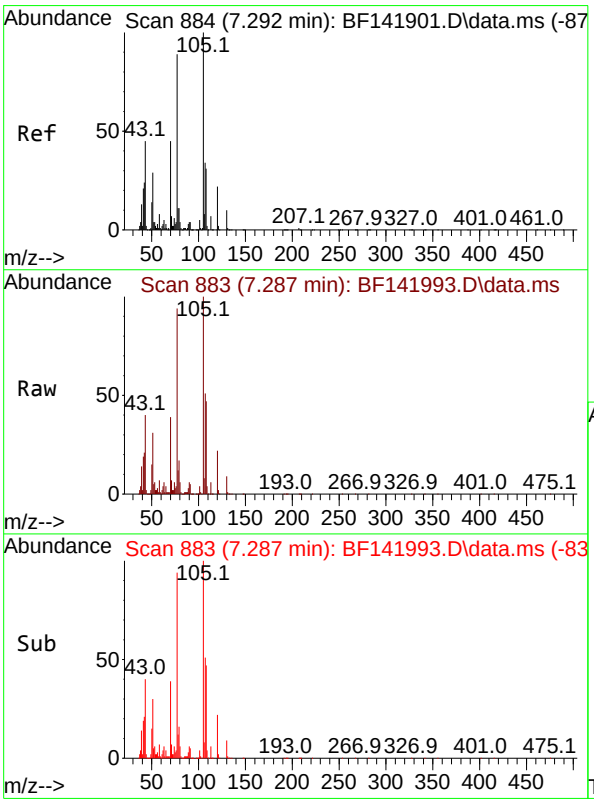
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:136 Resp: 535417

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.5	5.8	8.8
68	4.6	4.1	6.1

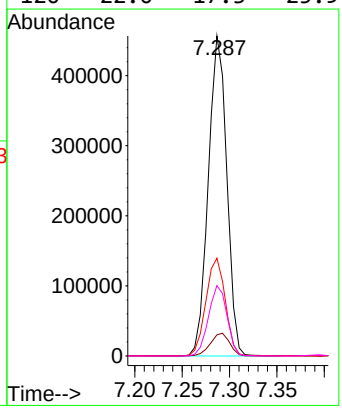


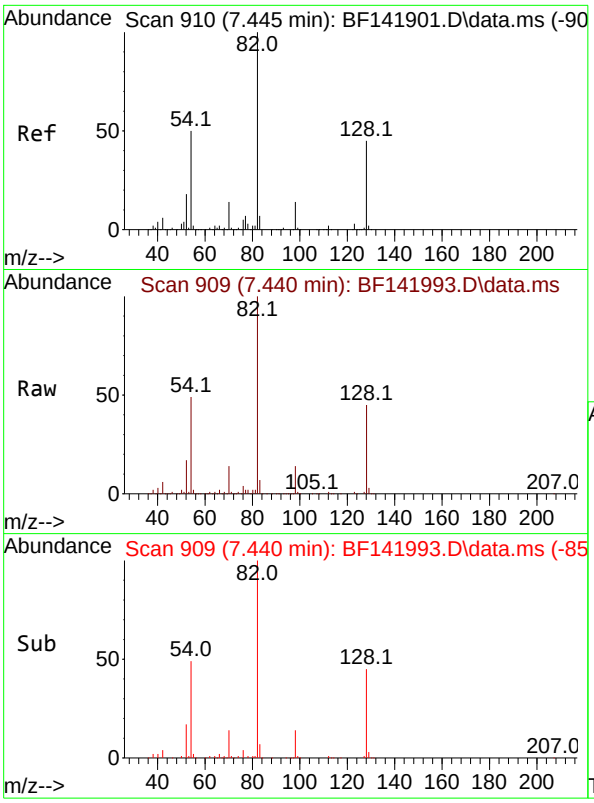


#22
Acetophenone
Concen: 48.338 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:105 Resp: 619784

Ion	Ratio	Lower	Upper
105	100		
71	6.6	5.8	8.8
51	30.5	23.4	35.0
120	22.0	17.3	25.9



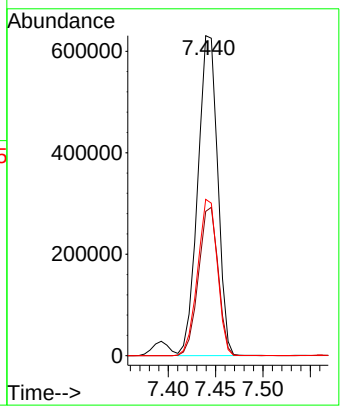


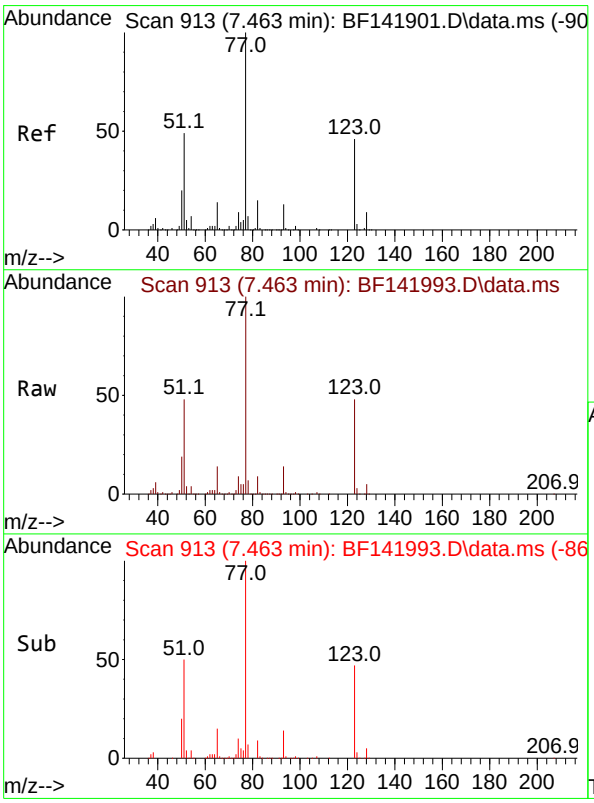
#23
Nitrobenzene-d5
Concen: 96.659 ng
RT: 7.440 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion: 82 Resp: 919626

Ion	Ratio	Lower	Upper
82	100		
128	45.1	36.0	54.0
54	48.8	39.6	59.4

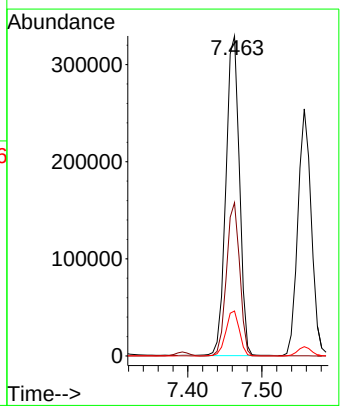


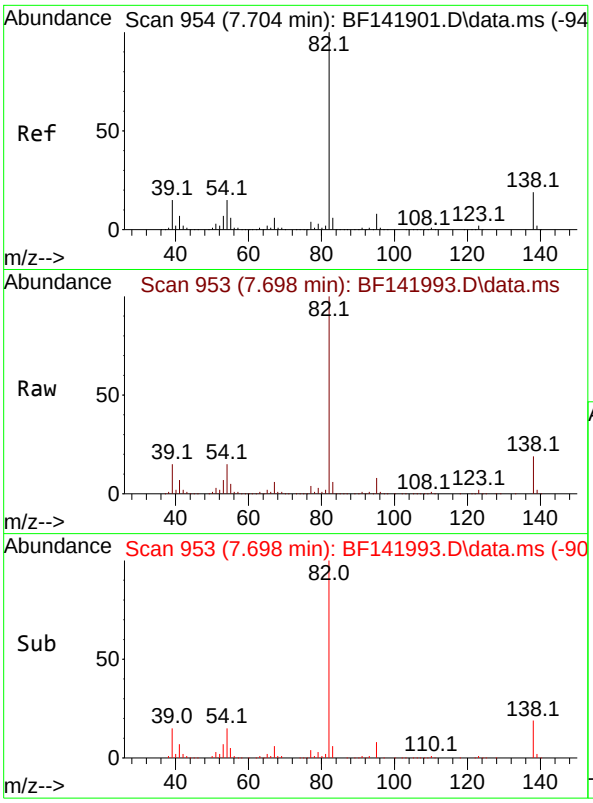


#24
Nitrobenzene
Concen: 44.111 ng
RT: 7.463 min Scan# 913
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 77 Resp: 417210

Ion	Ratio	Lower	Upper
77	100		
123	47.9	37.0	55.4
65	14.0	11.3	16.9



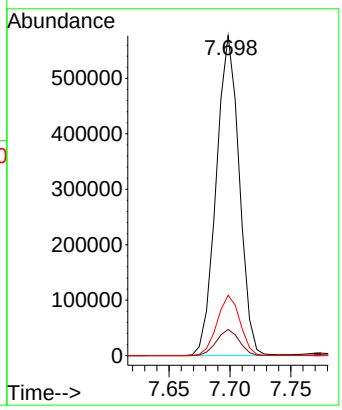


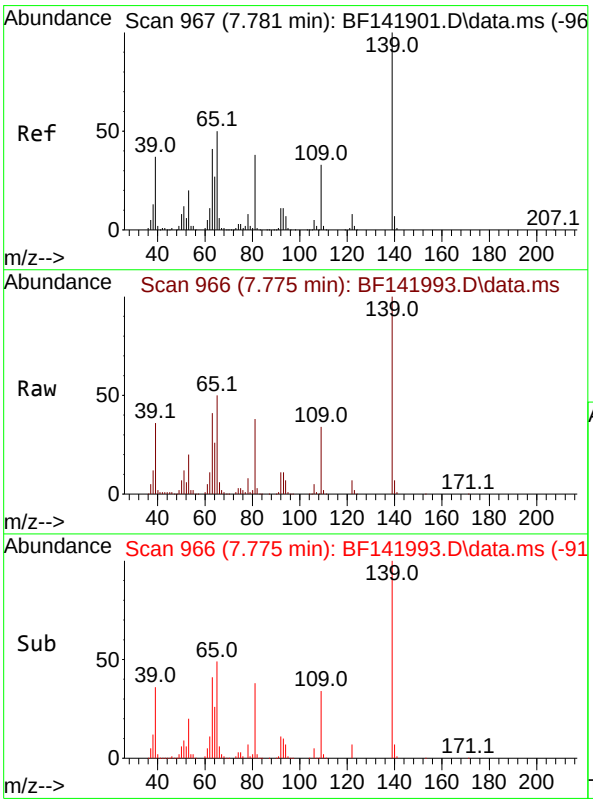
#25
Isophorone
Concen: 45.124 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion: 82 Resp: 758880

Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.4	9.6
138	18.8	14.9	22.3

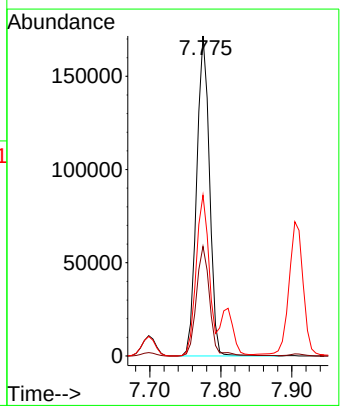


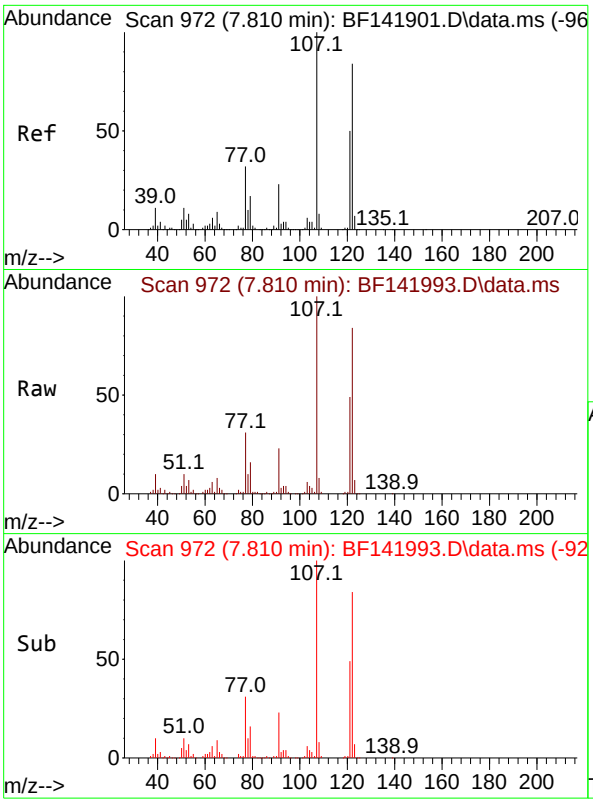


#26
2-Nitrophenol
Concen: 46.608 ng
RT: 7.775 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:139 Resp: 216360

Ion	Ratio	Lower	Upper
139	100		
109	34.2	26.5	39.7
65	50.3	40.3	60.5



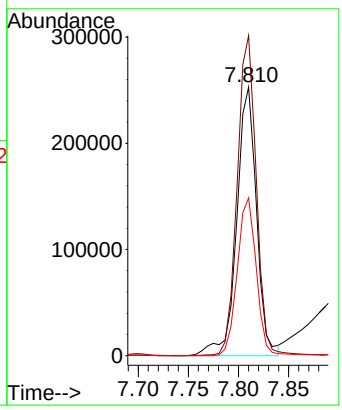


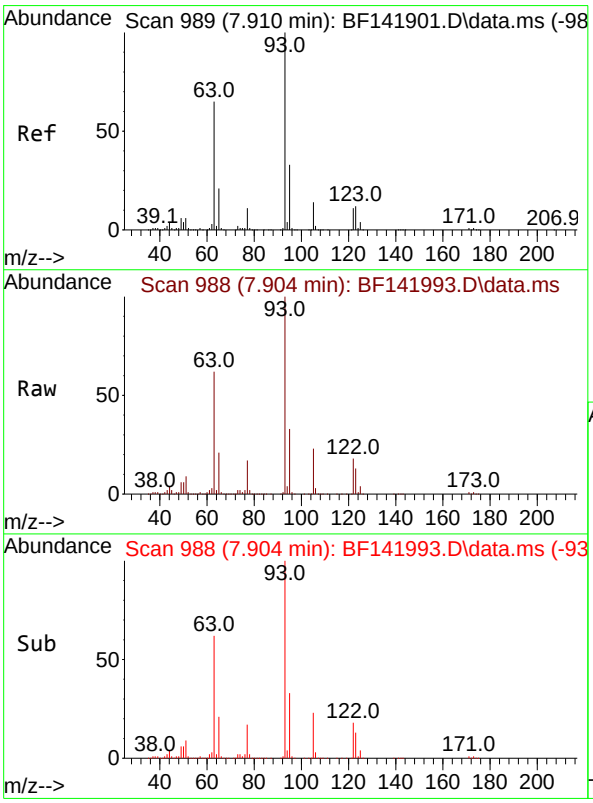
#27
2,4-Dimethylphenol
Concen: 54.671 ng
RT: 7.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:122 Resp: 349454

Ion	Ratio	Lower	Upper
122	100		
107	119.1	94.8	142.2
121	58.7	47.8	71.6

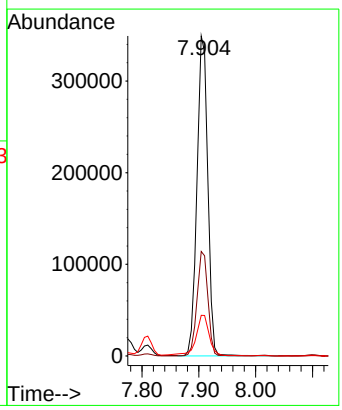


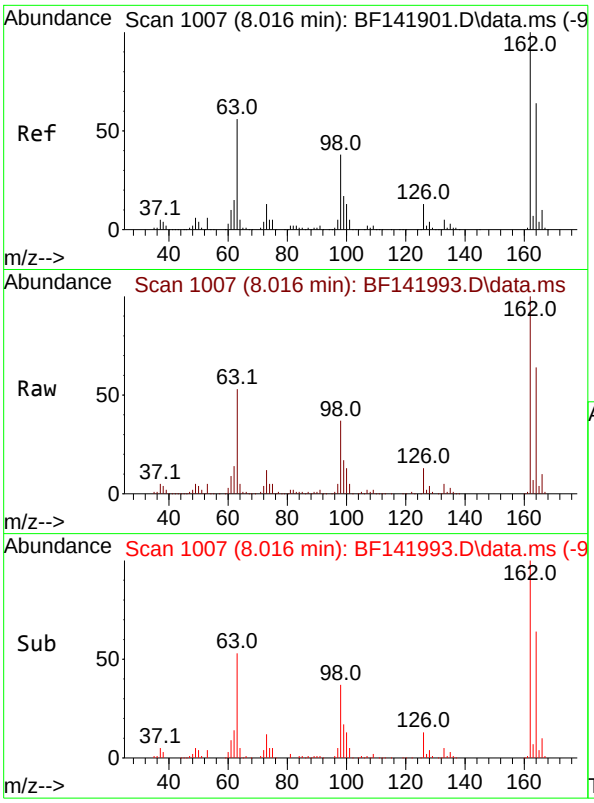


#28
bis(2-Chloroethoxy)methane
Concen: 43.949 ng
RT: 7.904 min Scan# 988
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 93 Resp: 463580

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.6	40.0
123	12.7	10.2	15.4



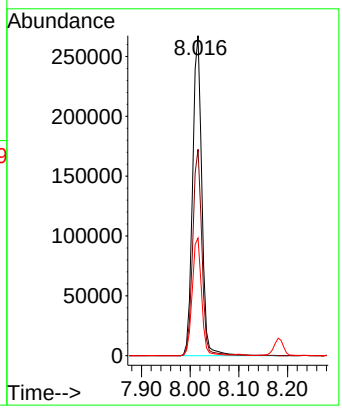


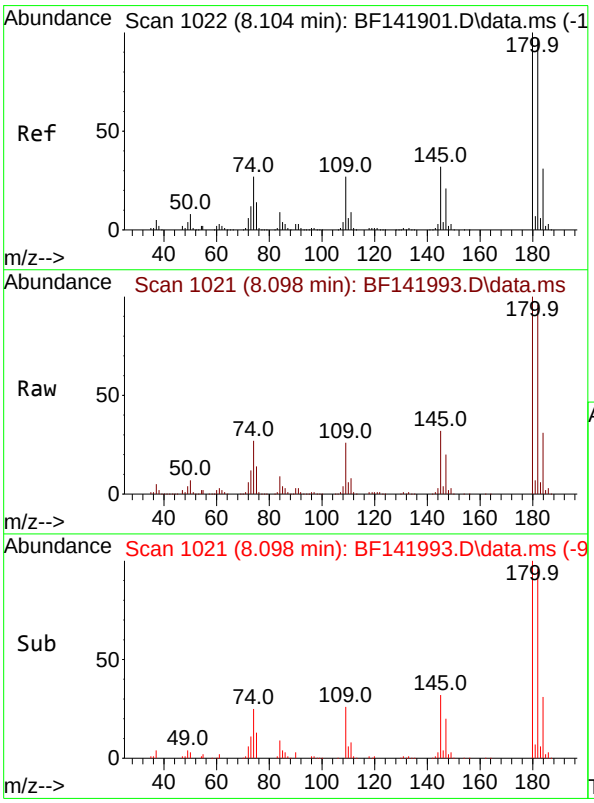
#29
2,4-Dichlorophenol
Concen: 44.861 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:162 Resp: 355926

Ion	Ratio	Lower	Upper
162	100		
164	64.5	43.8	83.8
98	36.7	18.1	58.1

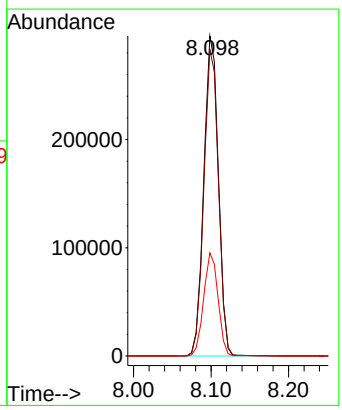


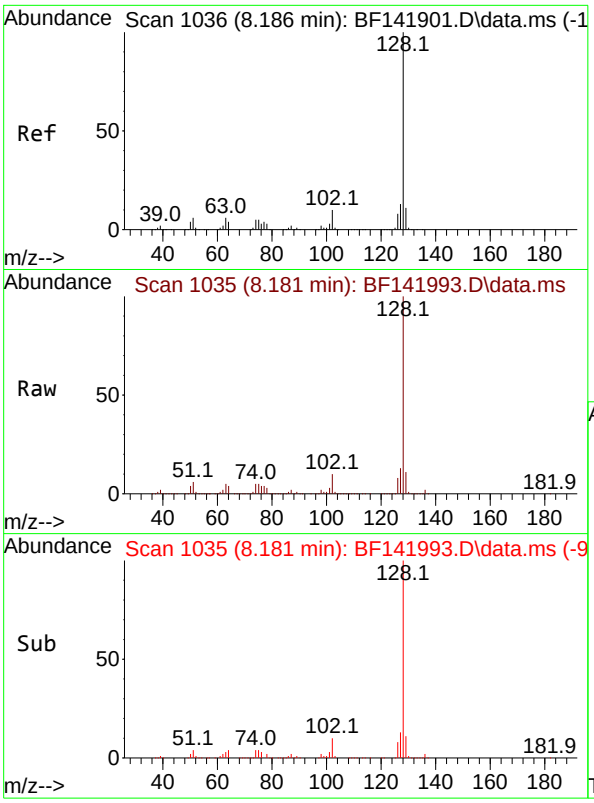


#30
1,2,4-Trichlorobenzene
Concen: 44.171 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:180 Resp: 386209

Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.5	116.3
145	32.2	25.8	38.6



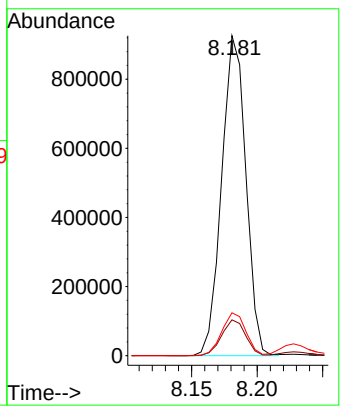


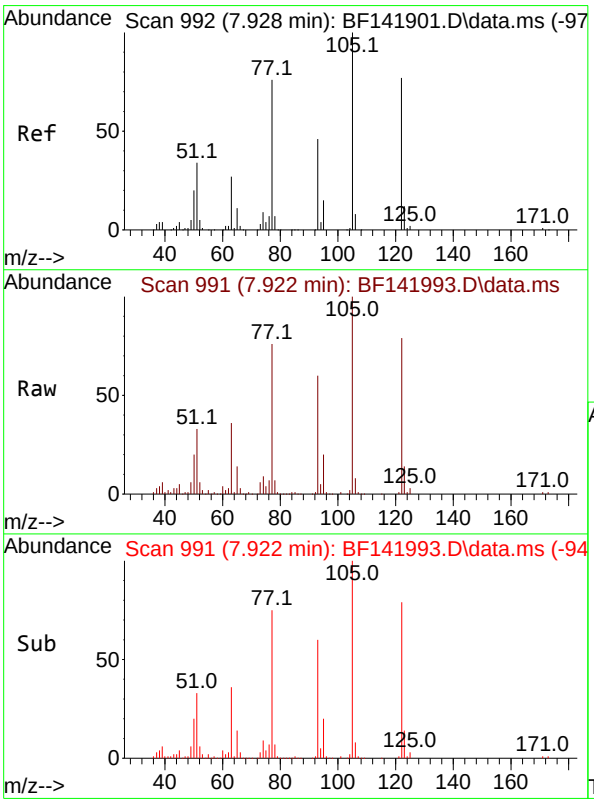
#31
Naphthalene
Concen: 43.228 ng
RT: 8.181 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:128 Resp: 1188930

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	13.4	10.8	16.2

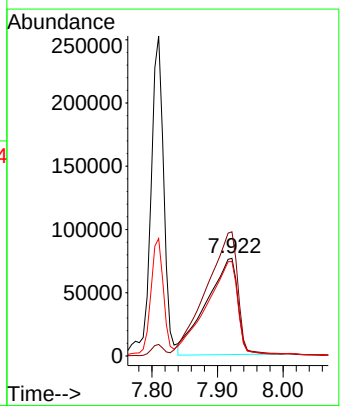


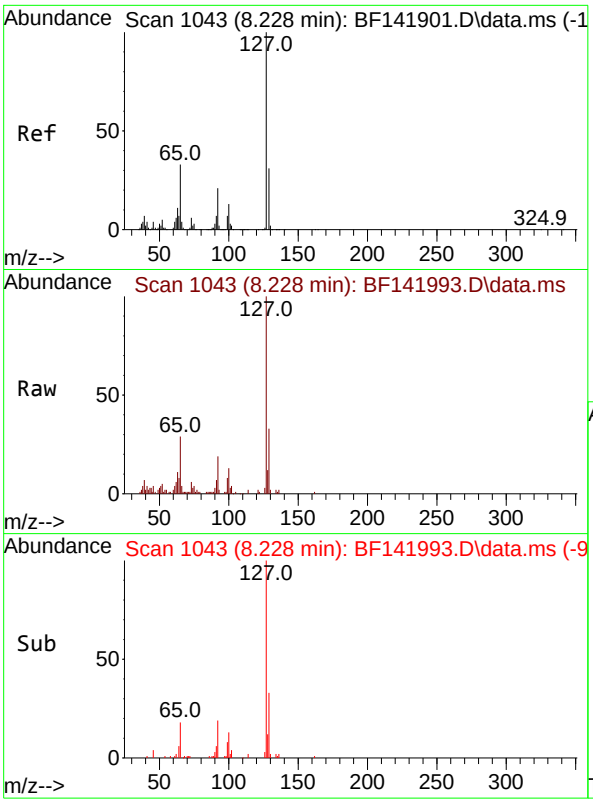


#32
Benzoic acid
Concen: 45.110 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:122 Resp: 253463

Ion	Ratio	Lower	Upper
122	100		
105	127.2	107.9	147.9
77	96.7	79.0	119.0



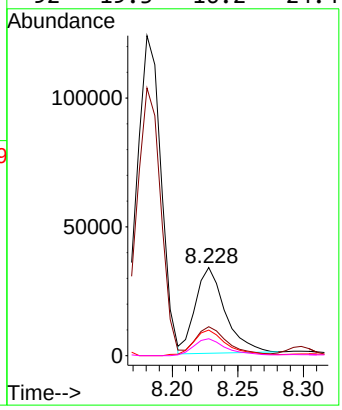


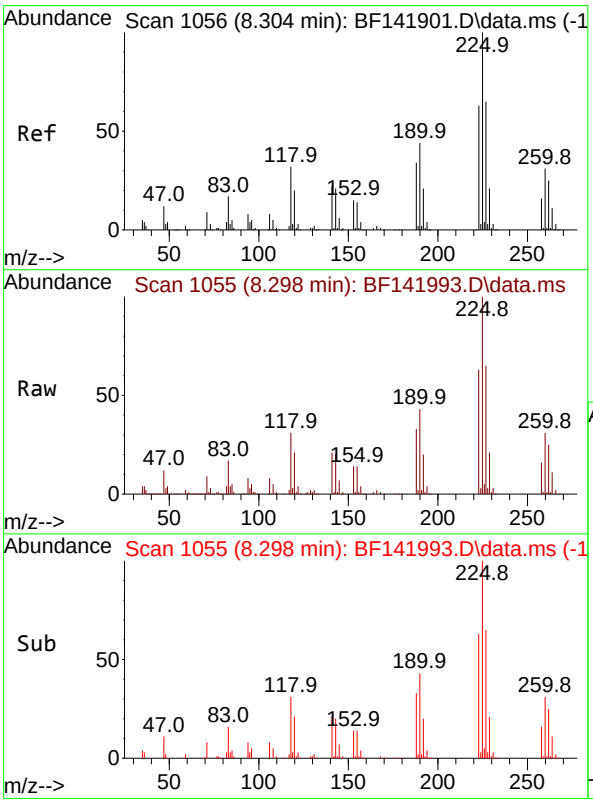
#33
4-Chloroaniline
Concen: 5.433 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:127 Resp: 52746

Ion	Ratio	Lower	Upper
127	100		
129	32.9	26.2	39.4
65	29.1	25.4	38.2
92	19.3	16.2	24.4

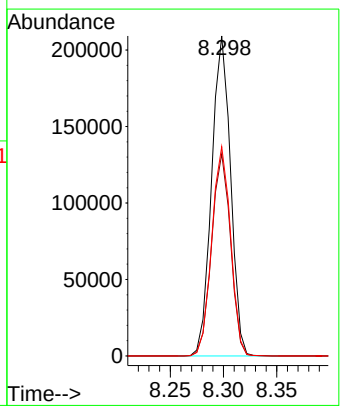


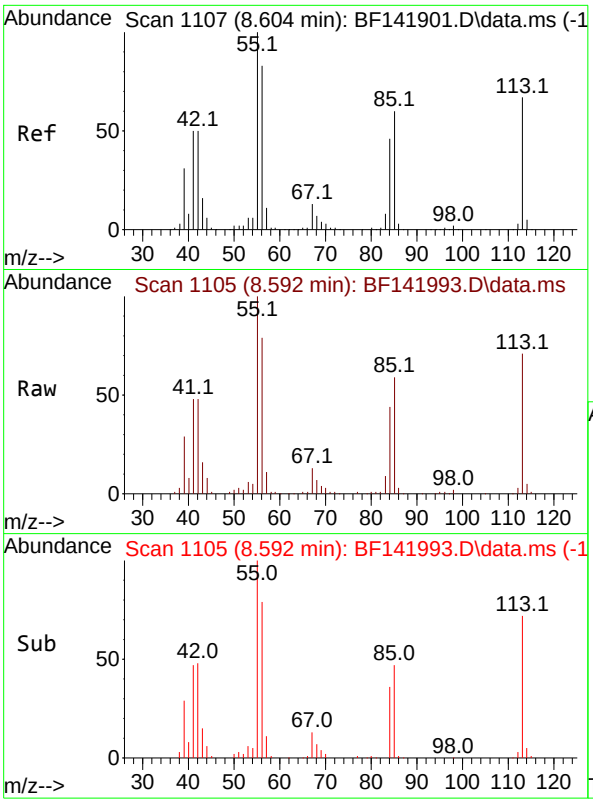


#34
Hexachlorobutadiene
Concen: 45.189 ng
RT: 8.298 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:225 Resp: 257669

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.6	75.8
227	65.4	52.2	78.2



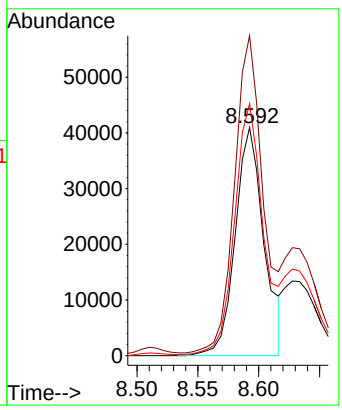


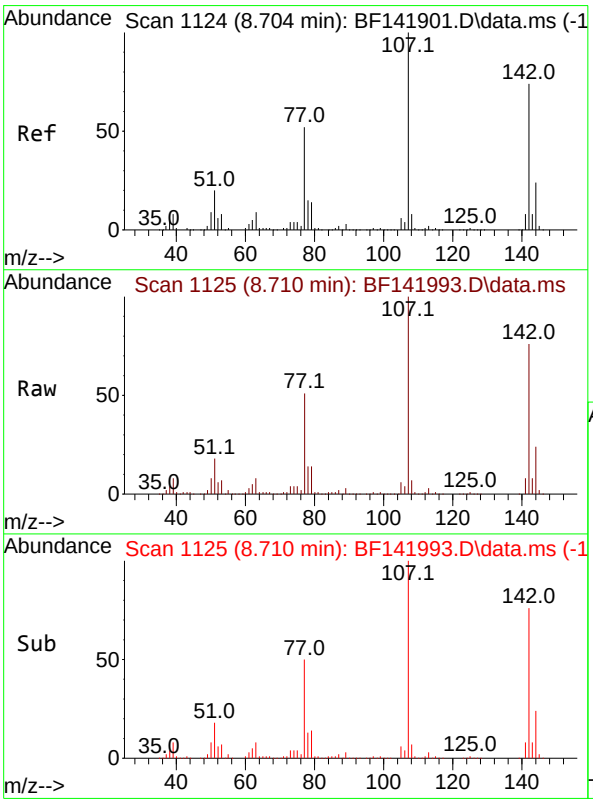
#35
Caprolactam
Concen: 27.651 ng
RT: 8.592 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:113 Resp: 66884

Ion	Ratio	Lower	Upper
113	100		
55	140.3	129.6	169.6
56	110.5	104.0	144.0

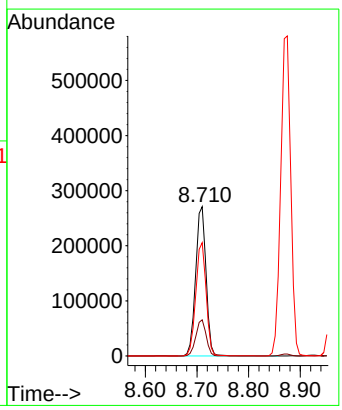


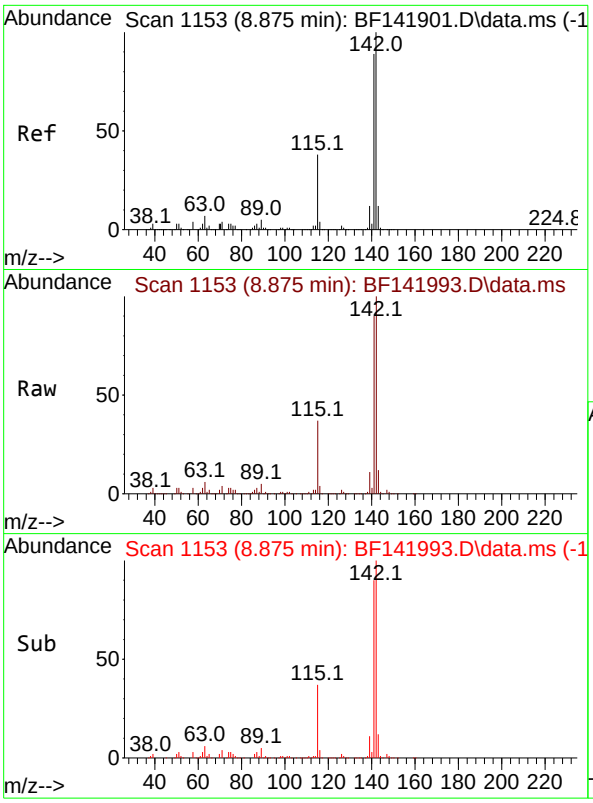


#36
4-Chloro-3-methylphenol
Concen: 42.865 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:107 Resp: 379366

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.0	28.6
142	76.0	59.2	88.8



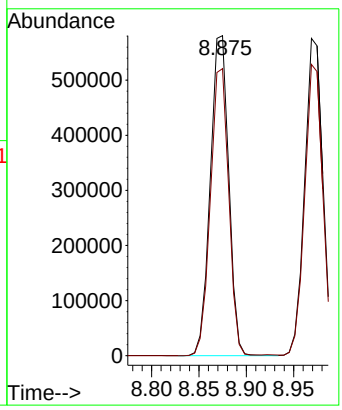


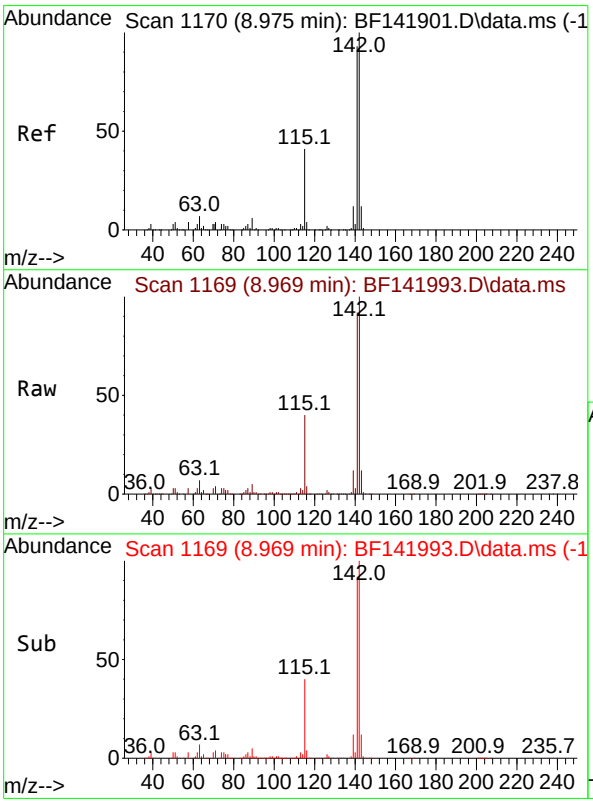
#37
2-Methylnaphthalene
Concen: 42.696 ng
RT: 8.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:142 Resp: 784913

Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.2	106.8

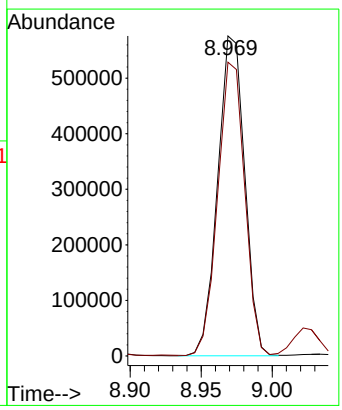


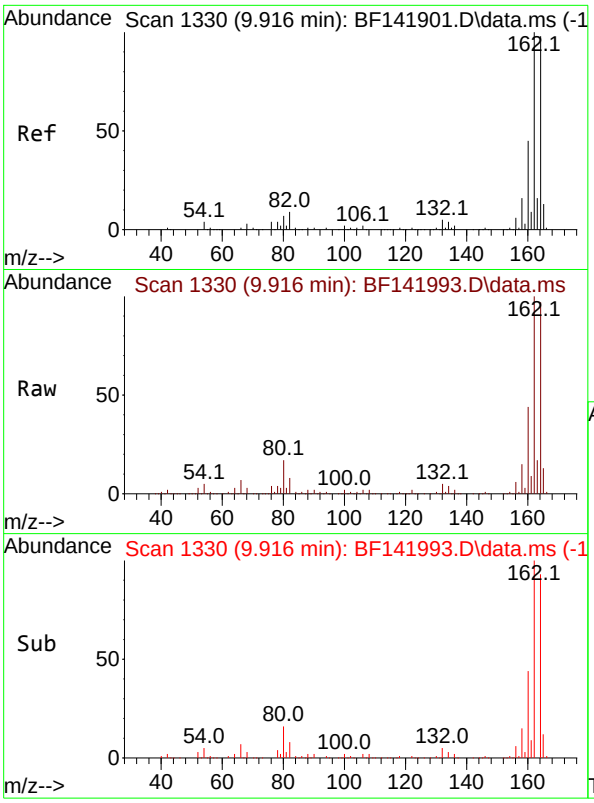


#38
1-Methylnaphthalene
Concen: 42.894 ng
RT: 8.969 min Scan# 1169
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:142 Resp: 760948

Ion	Ratio	Lower	Upper
142	100		
141	91.8	74.2	111.4



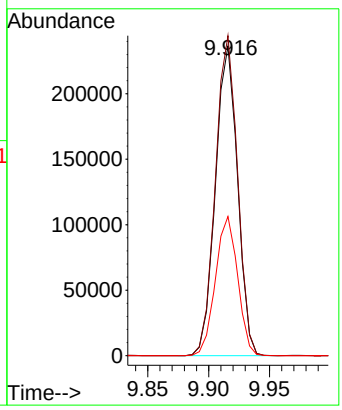


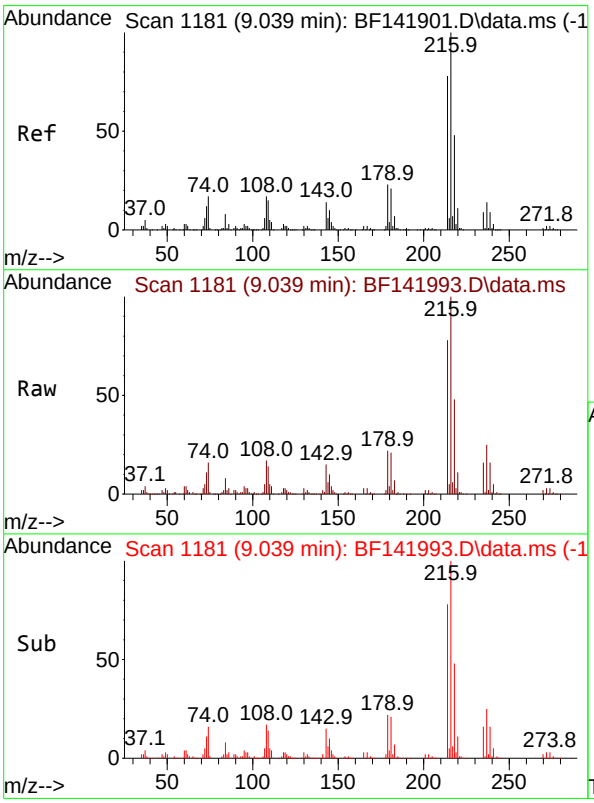
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:164 Resp: 298567

Ion	Ratio	Lower	Upper
164	100		
162	103.3	81.8	122.6
160	45.0	36.7	55.1

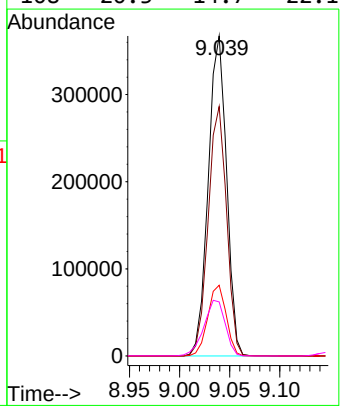


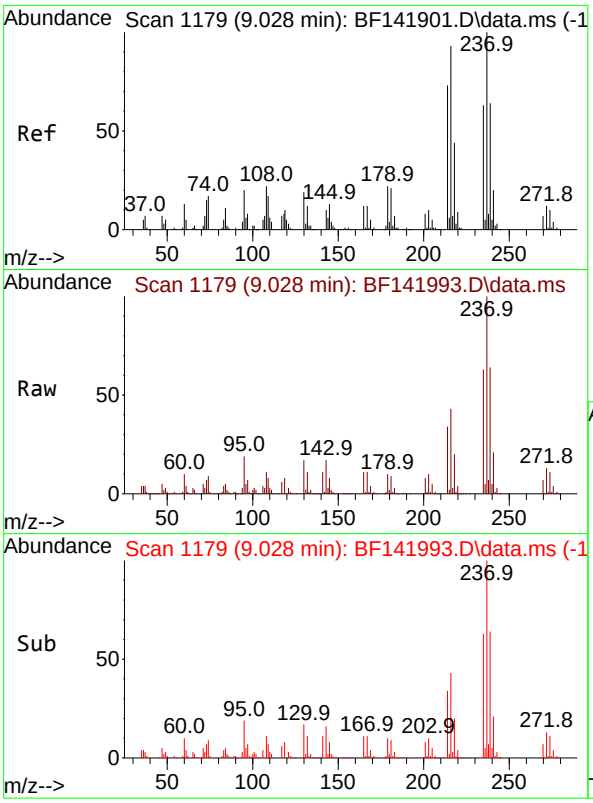


#40
1,2,4,5-Tetrachlorobenzene
Concen: 51.303 ng
RT: 9.039 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:216 Resp: 466352

Ion	Ratio	Lower	Upper
216	100		
214	78.2	61.9	92.9
179	22.2	18.1	27.1
108	20.3	14.7	22.1



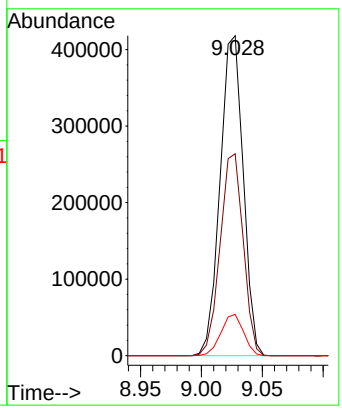


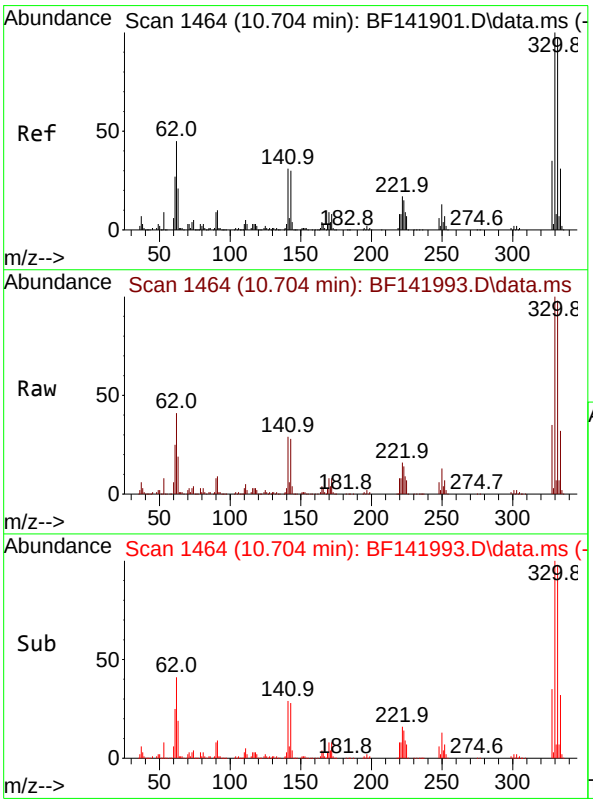
#41
Hexachlorocyclopentadiene
Concen: 155.263 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:237 Resp: 552351

Ion	Ratio	Lower	Upper
237	100		
235	63.1	43.1	83.1
272	12.9	0.0	32.0

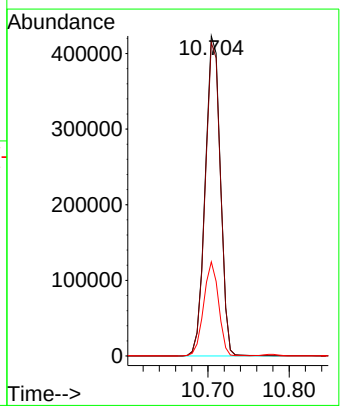


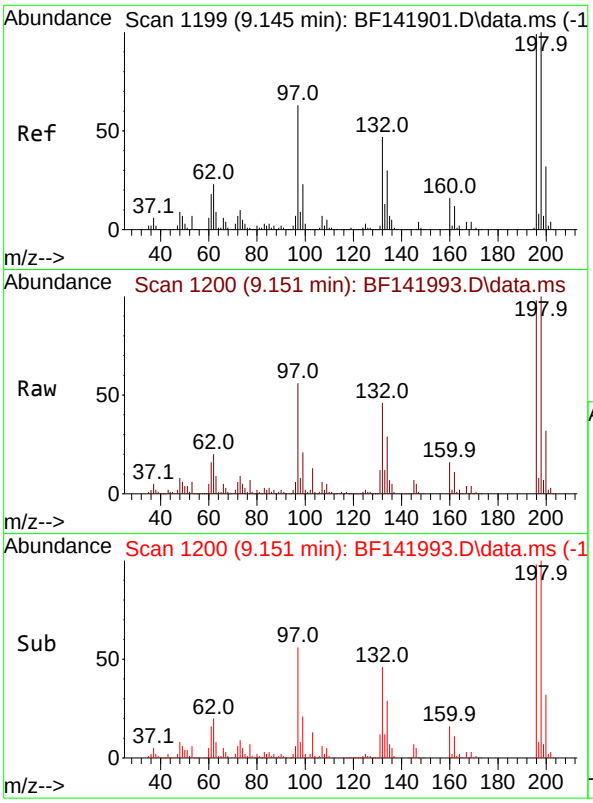


#42
2,4,6-Tribromophenol
Concen: 144.553 ng
RT: 10.704 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:330 Resp: 547526

Ion	Ratio	Lower	Upper
330	100		
332	98.3	77.6	116.4
141	29.0	24.7	37.1



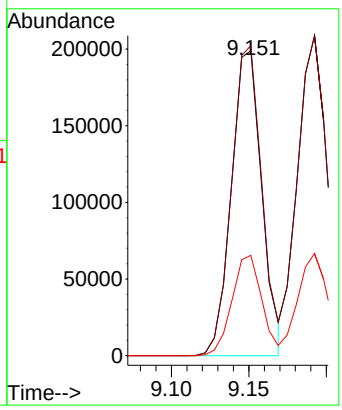


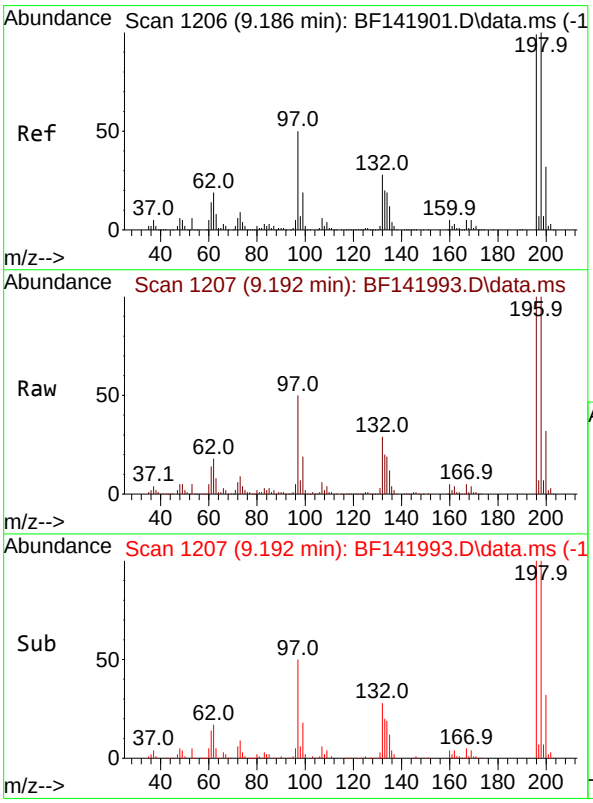
#43
2,4,6-Trichlorophenol
Concen: 45.658 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:196 Resp: 271244

Ion	Ratio	Lower	Upper
196	100		
198	101.6	80.6	121.0
200	32.9	25.8	38.6

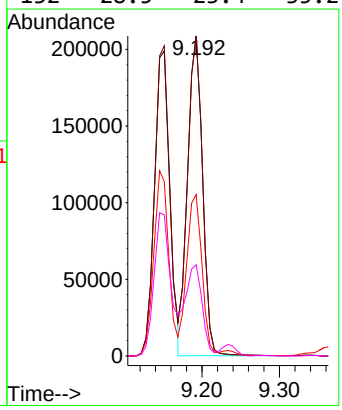


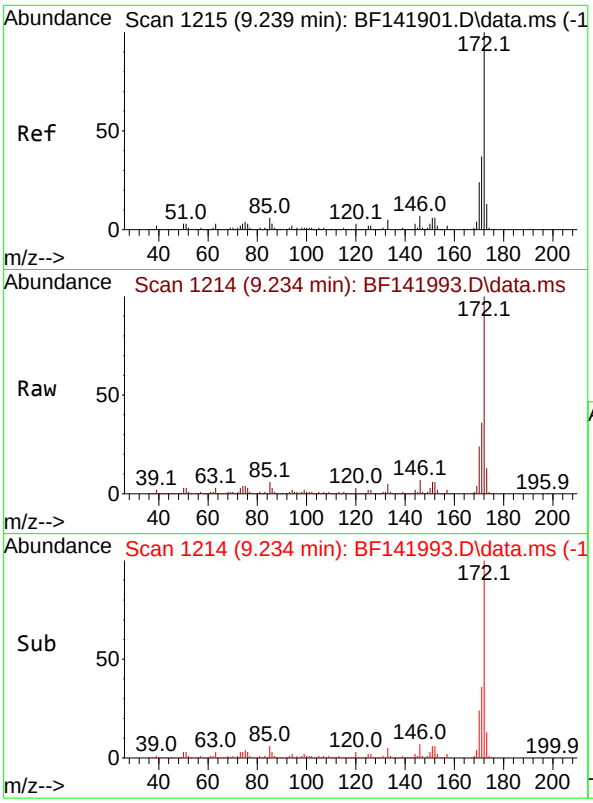


#44
2,4,5-Trichlorophenol
Concen: 46.754 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:196 Resp: 281314

Ion	Ratio	Lower	Upper
196	100		
198	100.0	80.7	121.1
97	50.4	42.1	63.1
132	28.5	23.4	35.2



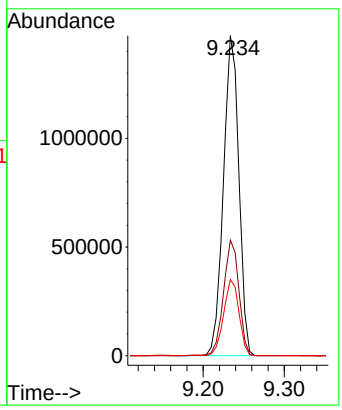


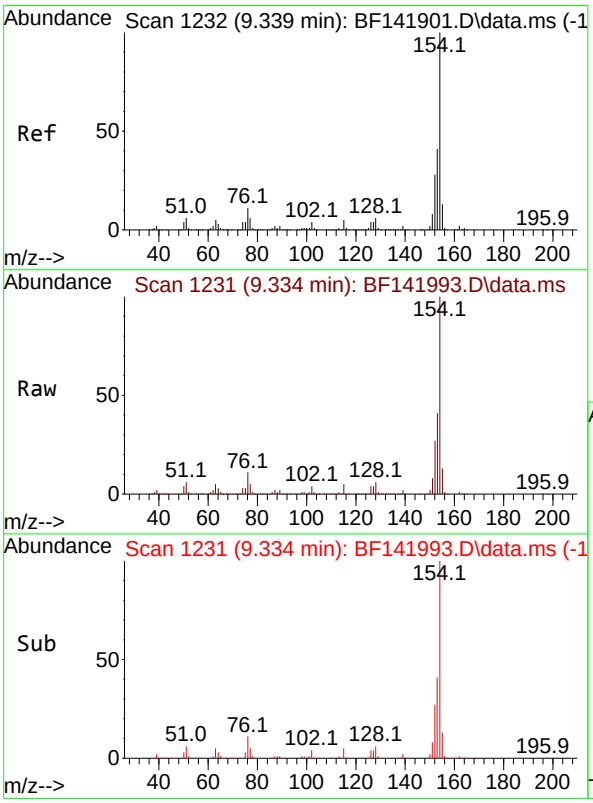
#45
2-Fluorobiphenyl
Concen: 99.221 ng
RT: 9.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:172 Resp: 1947912

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.3	43.9
170	23.8	19.4	29.0

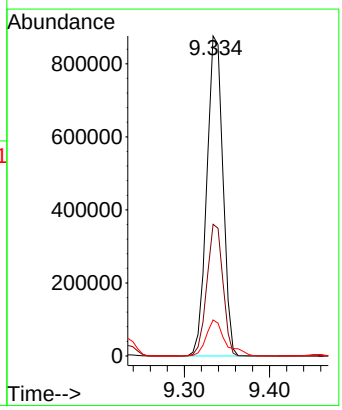


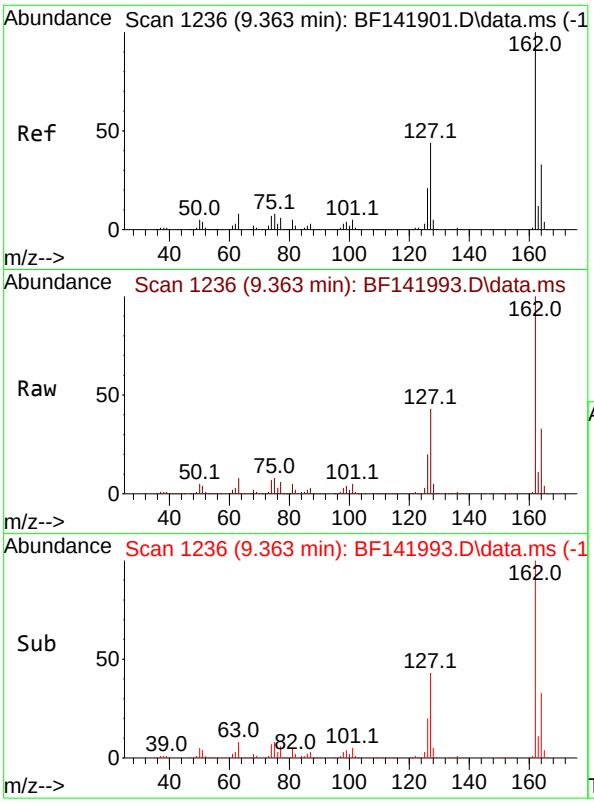


#46
1,1'-Biphenyl
Concen: 50.590 ng
RT: 9.334 min Scan# 1231
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:154 Resp: 1147658

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.1	61.1
76	11.2	0.0	31.3



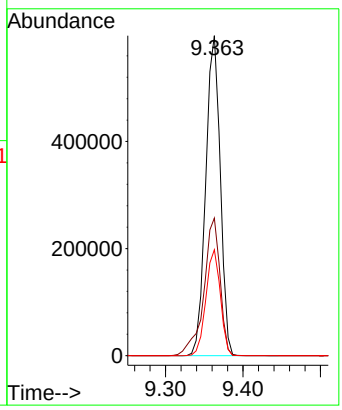


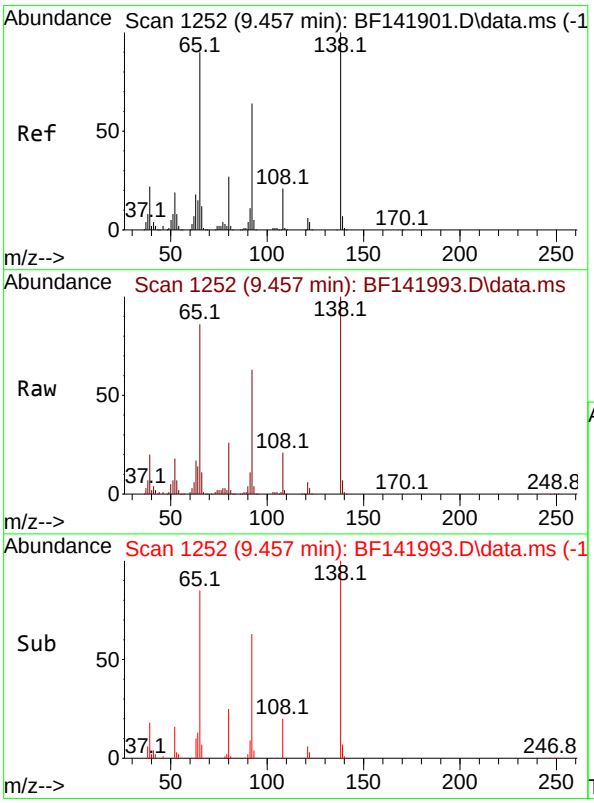
#47
2-Chloronaphthalene
Concen: 45.937 ng
RT: 9.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:162 Resp: 776730

Ion	Ratio	Lower	Upper
162	100		
127	43.0	35.5	53.3
164	33.1	26.6	40.0

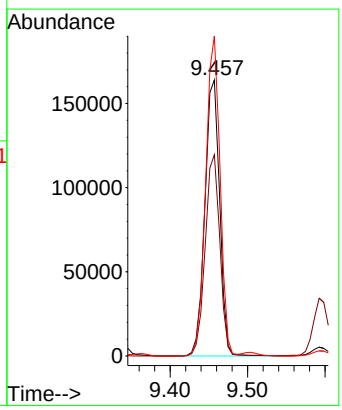


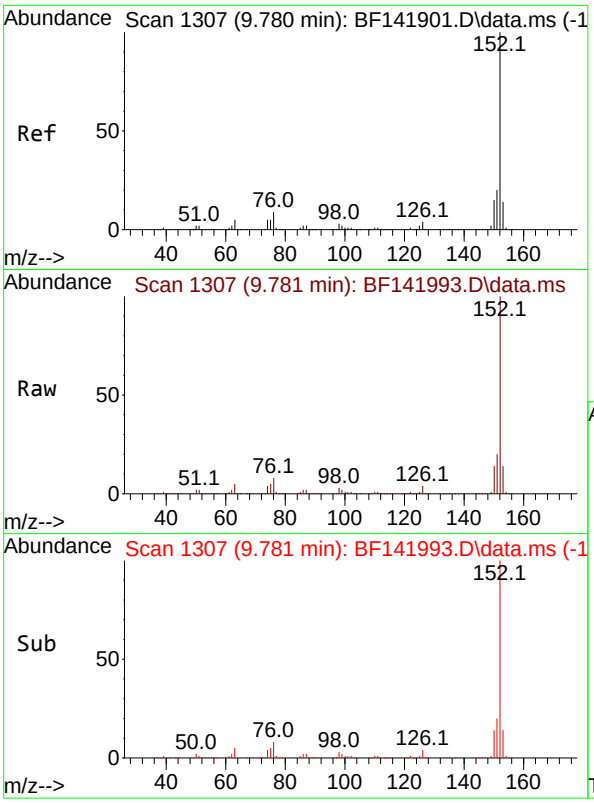


#48
2-Nitroaniline
Concen: 44.355 ng
RT: 9.457 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion: 65 Resp: 217153

Ion	Ratio	Lower	Upper
65	100		
92	72.9	56.6	84.8
138	116.0	88.6	133.0



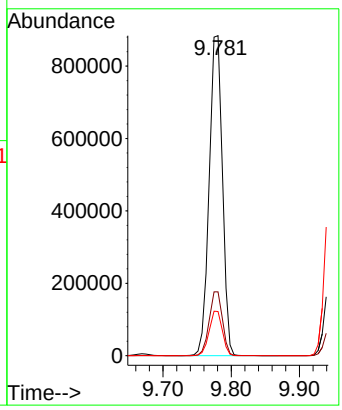


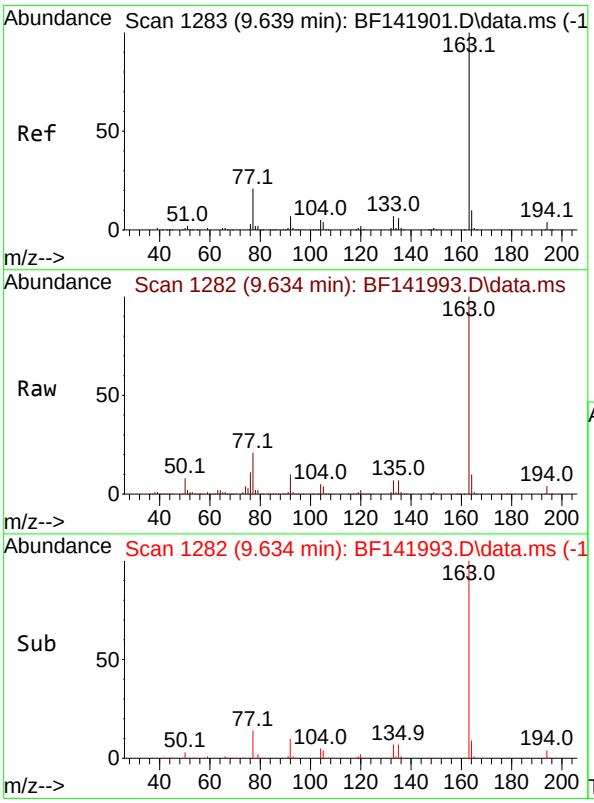
#49
Acenaphthylene
Concen: 47.721 ng
RT: 9.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:152 Resp: 1197410

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.3	24.5
153	13.8	11.1	16.7

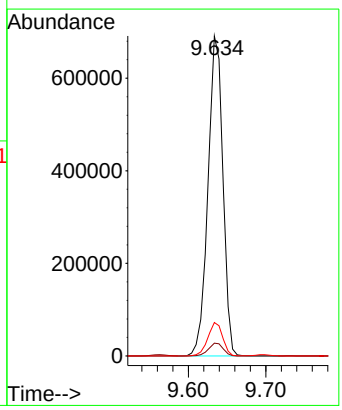


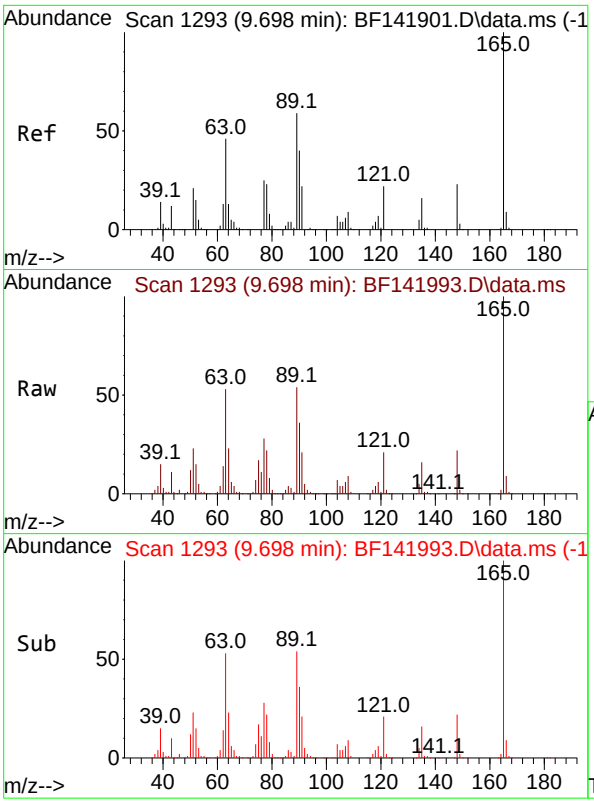


#50
Dimethylphthalate
Concen: 44.238 ng
RT: 9.634 min Scan# 1282
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:163 Resp: 924934

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.4	8.2	12.4



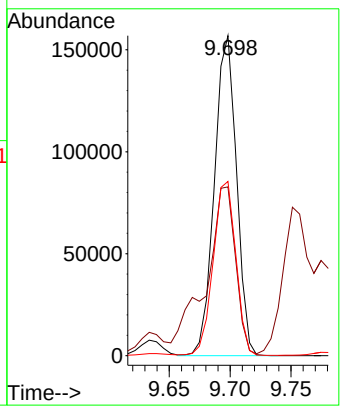


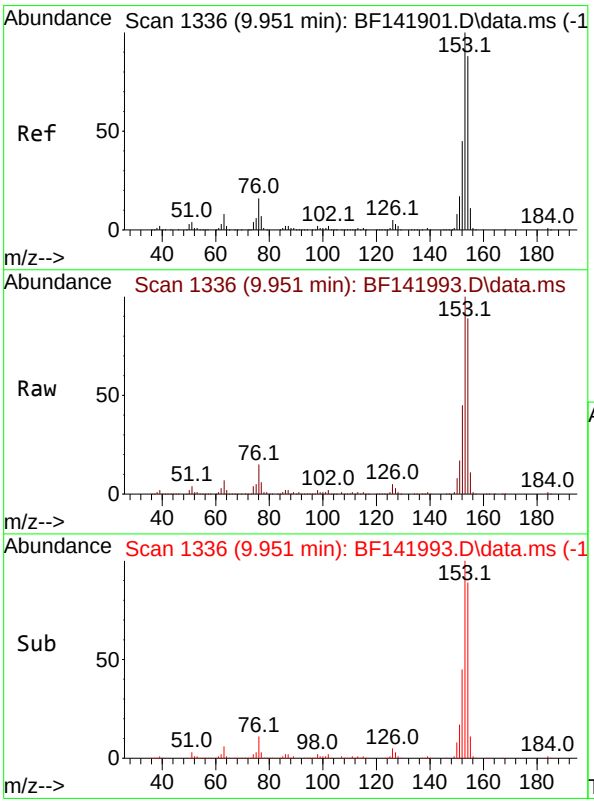
#51
2,6-Dinitrotoluene
Concen: 45.578 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:165 Resp: 198413

Ion	Ratio	Lower	Upper
165	100		
63	52.8	47.0	70.4
89	54.5	47.4	71.2

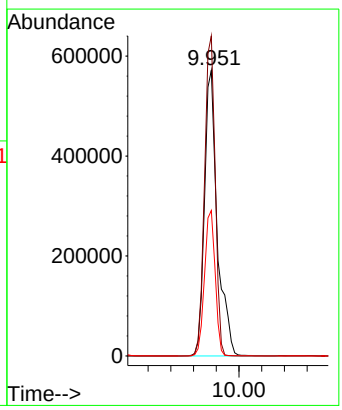


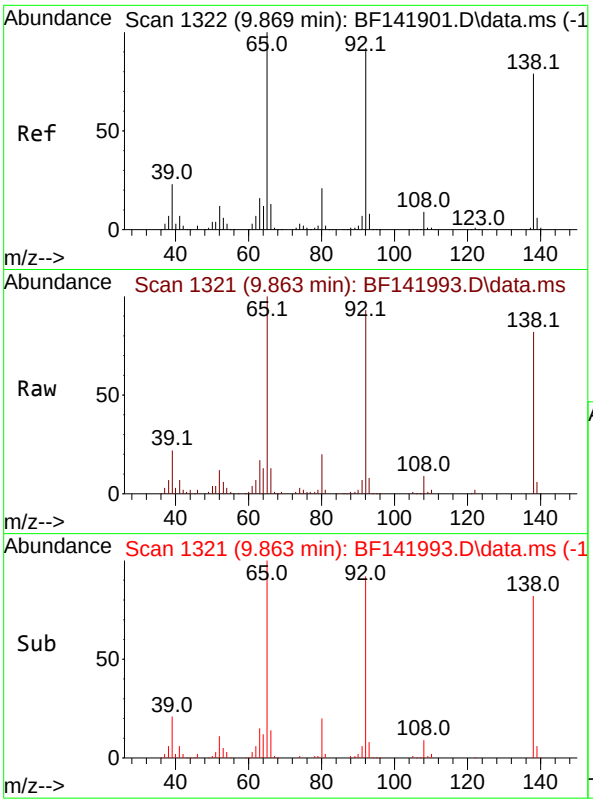


#52
Acenaphthene
Concen: 50.651 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:154 Resp: 893147

Ion	Ratio	Lower	Upper
154	100		
153	112.0	90.7	136.1
152	50.9	41.1	61.7



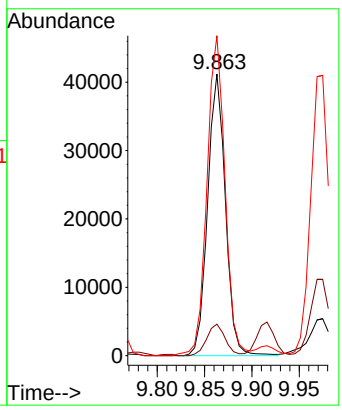


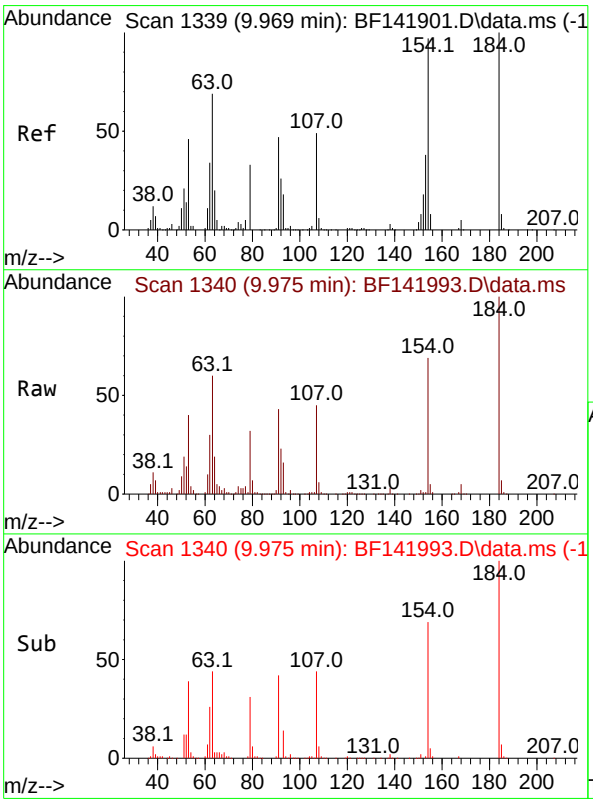
#53
3-Nitroaniline
Concen: 12.160 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:138 Resp: 53697

Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.3	13.9
92	113.6	93.5	140.3

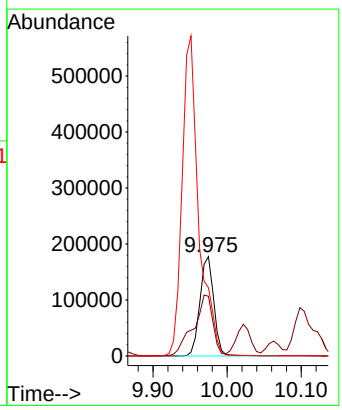


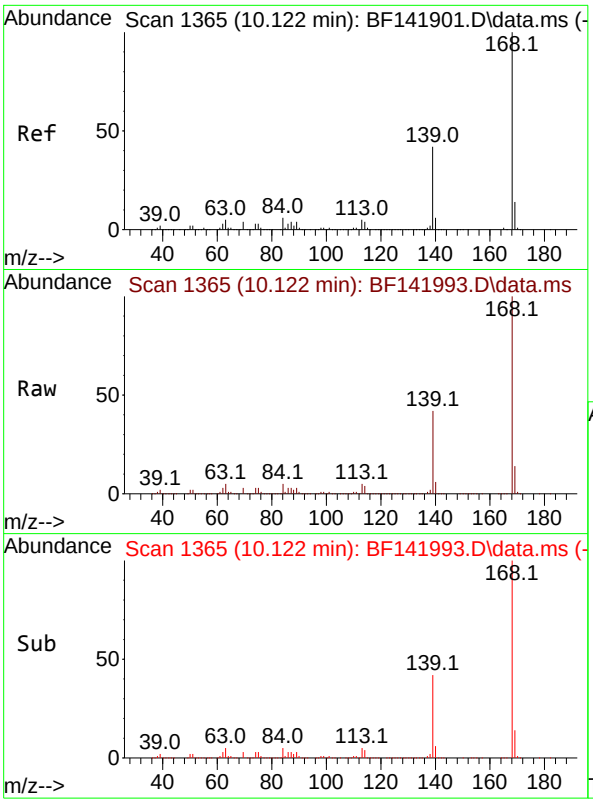


#54
2,4-Dinitrophenol
Concen: 92.501 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:184 Resp: 231559

Ion	Ratio	Lower	Upper
184	100		
63	60.0	60.2	90.4#
154	68.8	132.9	199.3#



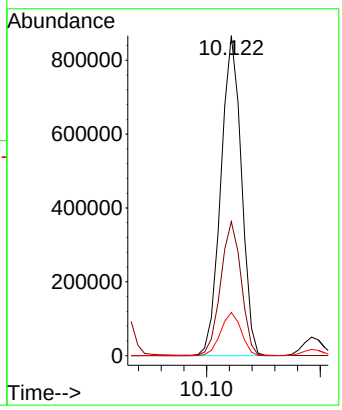


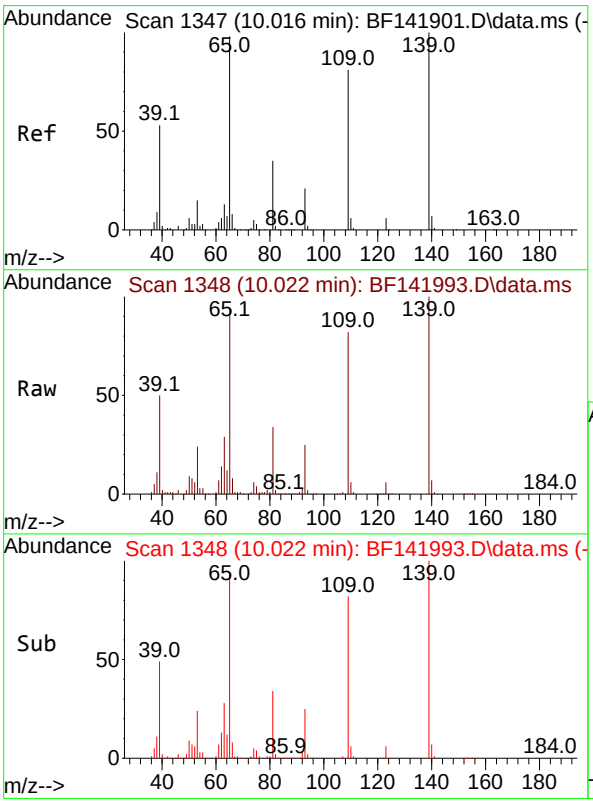
#55
Dibenzofuran
Concen: 43.274 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:168 Resp: 1090329

Ion	Ratio	Lower	Upper
168	100		
139	41.9	33.9	50.9
169	13.5	11.0	16.4

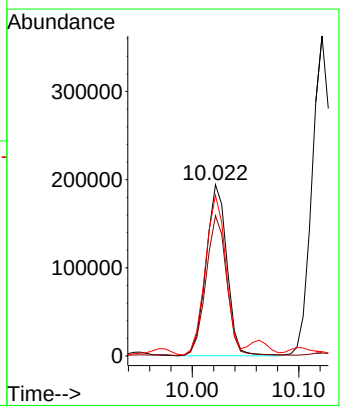


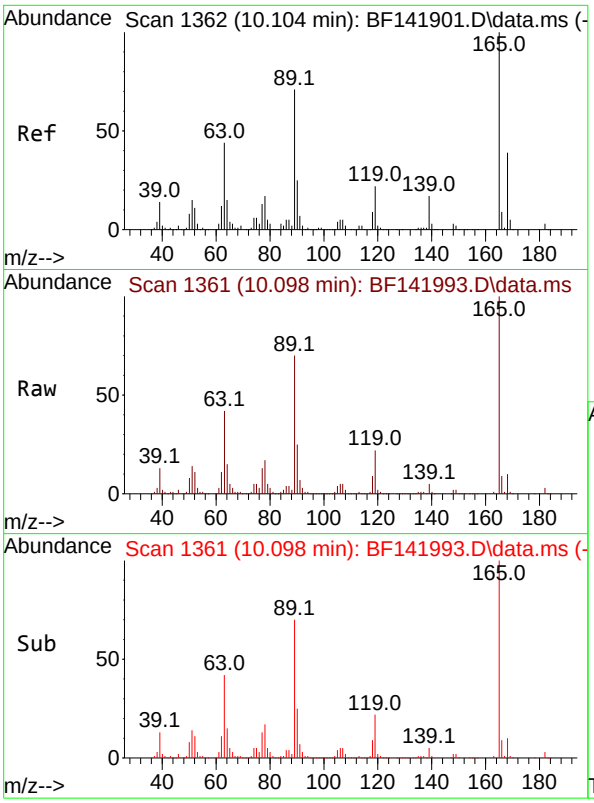


#56
4-Nitrophenol
Concen: 79.177 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:139 Resp: 263665

Ion	Ratio	Lower	Upper
139	100		
109	81.9	61.6	101.6
65	93.8	79.4	119.4



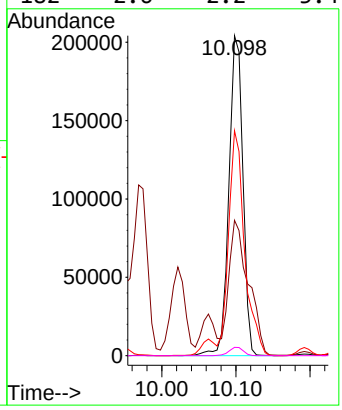


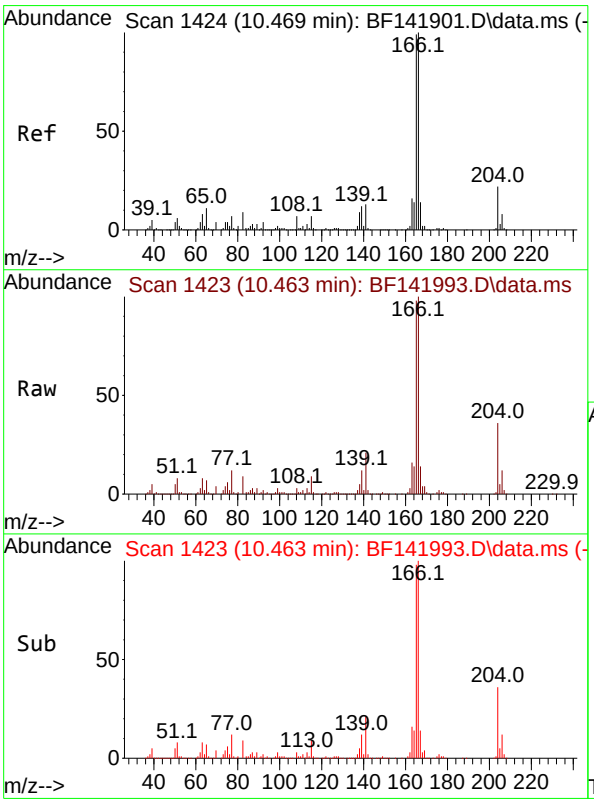
#57
2,4-Dinitrotoluene
Concen: 47.015 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:165 Resp: 267316

Ion	Ratio	Lower	Upper
165	100		
63	42.3	35.4	53.2
89	70.3	56.6	84.8
182	2.6	2.2	3.4

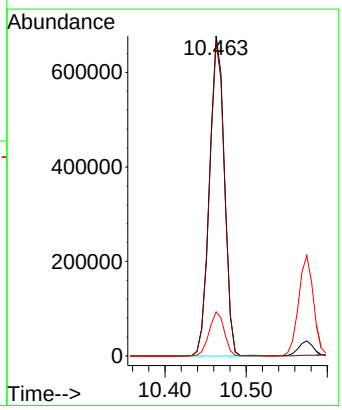


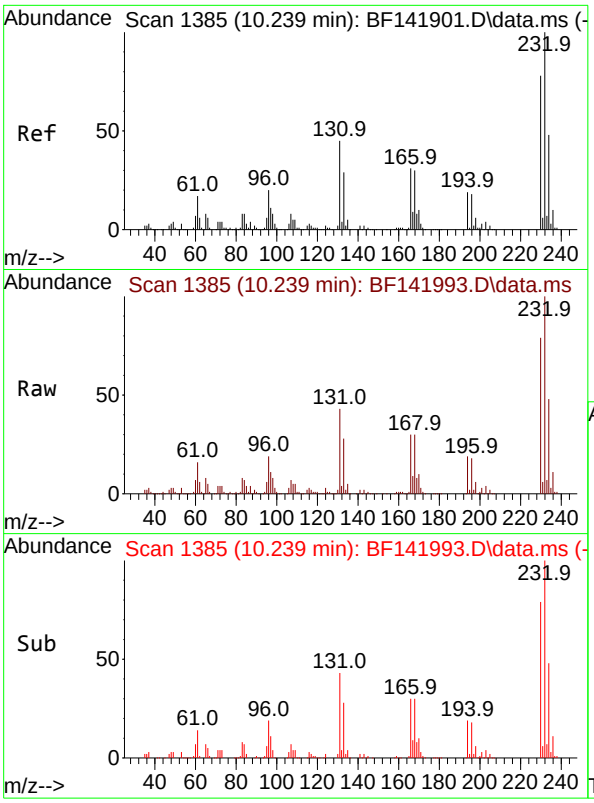


#58
Fluorene
Concen: 44.339 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:166 Resp: 861532

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.0	118.4
167	13.8	11.0	16.4



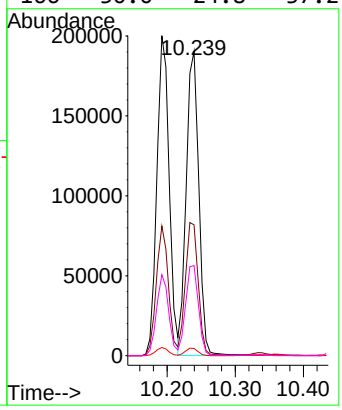


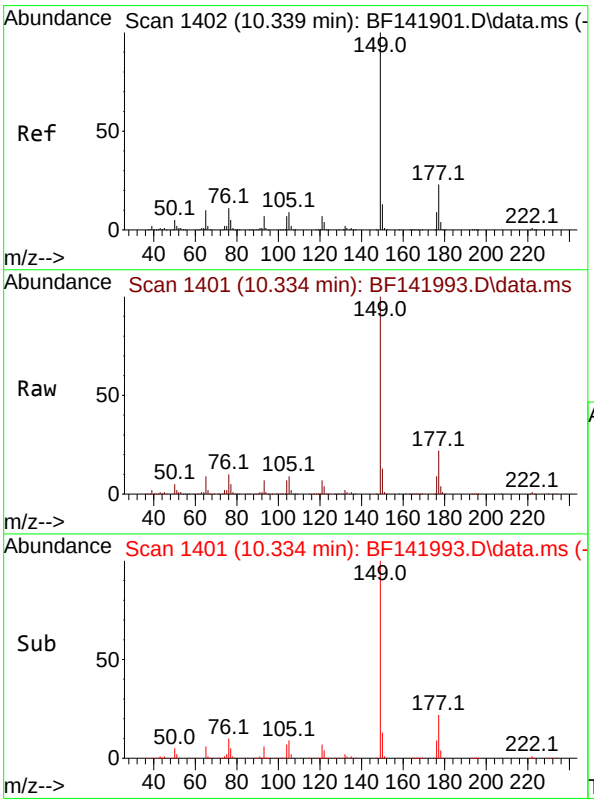
#59
2,3,4,6-Tetrachlorophenol
Concen: 44.233 ng
RT: 10.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:232 Resp: 242183

Ion	Ratio	Lower	Upper
232	100		
131	44.6	37.3	55.9
130	2.5	1.9	2.9
166	30.0	24.8	37.2

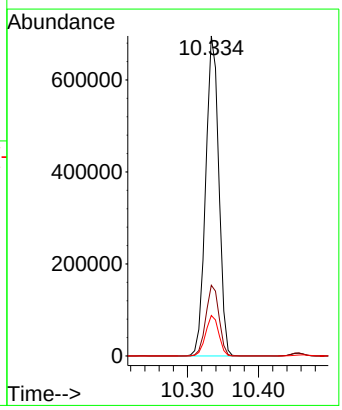


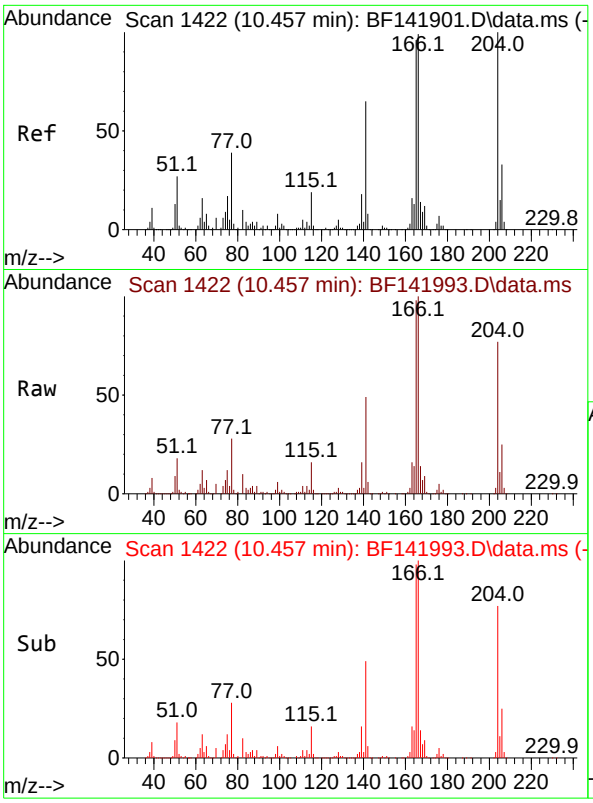


#60
Diethylphthalate
Concen: 42.892 ng
RT: 10.334 min Scan# 1401
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:149 Resp: 894203

Ion	Ratio	Lower	Upper
149	100		
177	22.1	18.0	27.0
150	12.6	10.2	15.4



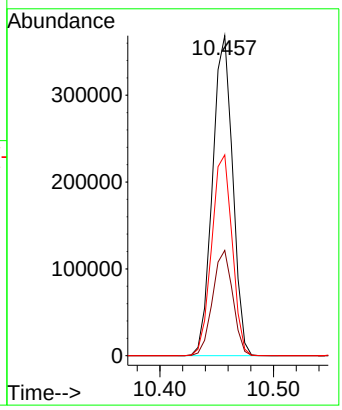


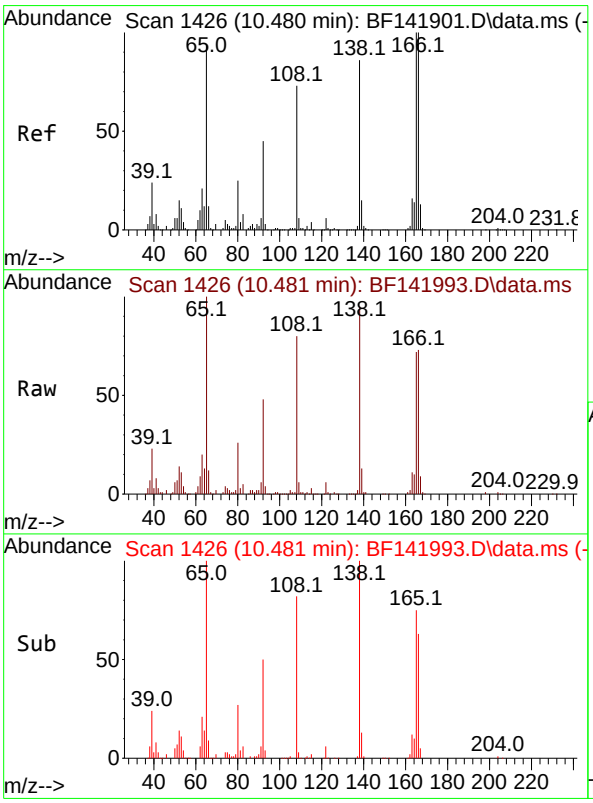
#61
4-Chlorophenyl-phenylether
Concen: 44.899 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:204 Resp: 454829

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.8	40.2
141	62.7	52.4	78.6

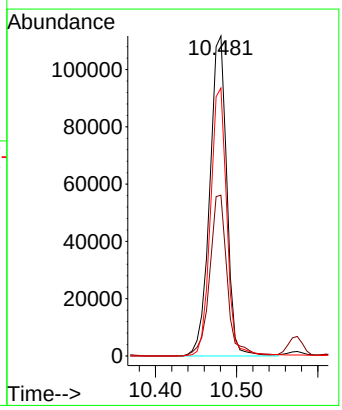


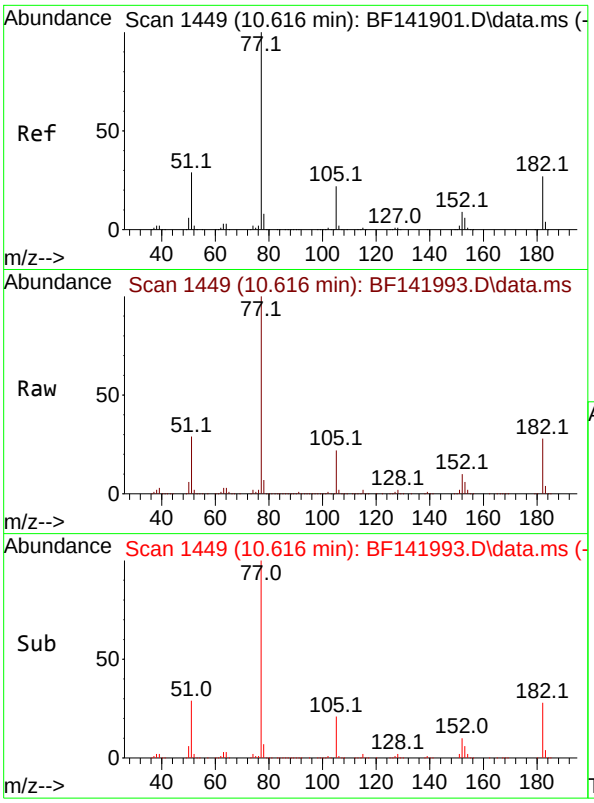


#62
4-Nitroaniline
Concen: 37.858 ng
RT: 10.481 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:138 Resp: 162752

Ion	Ratio	Lower	Upper
138	100		
92	50.3	32.6	72.6
108	83.8	65.0	105.0



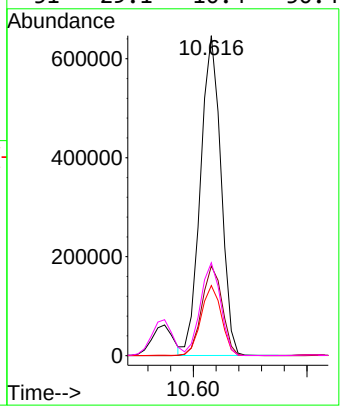


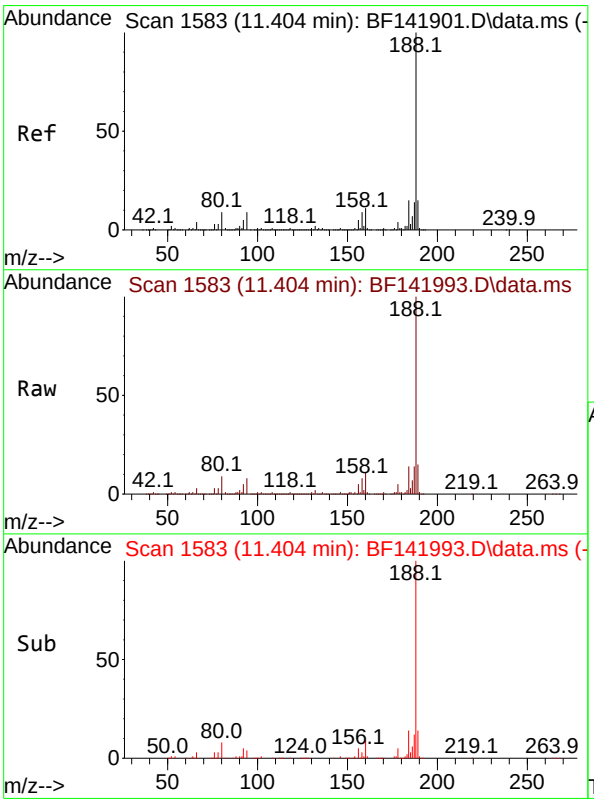
#63
Azobenzene
Concen: 41.682 ng
RT: 10.616 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion: 77 Resp: 807900

Ion	Ratio	Lower	Upper
77	100		
182	28.0	6.6	46.6
105	21.9	1.3	41.3
51	29.1	10.4	50.4

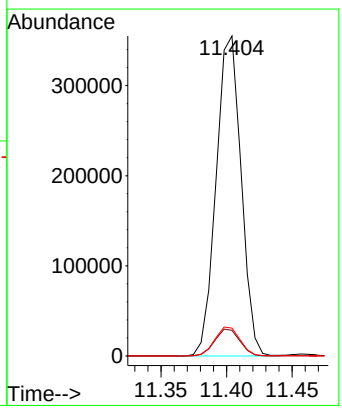


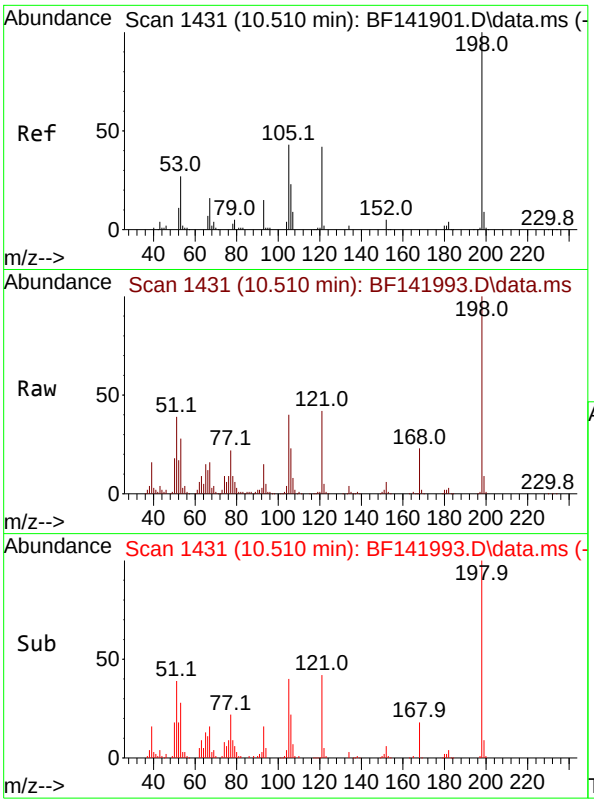


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:188 Resp: 470466

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.8	10.2
80	8.7	7.6	11.4



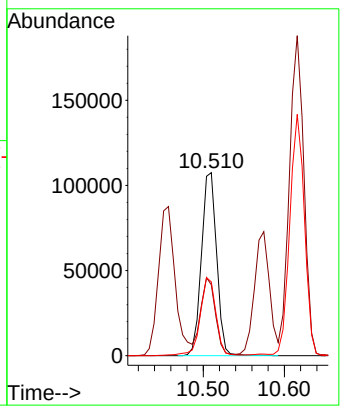


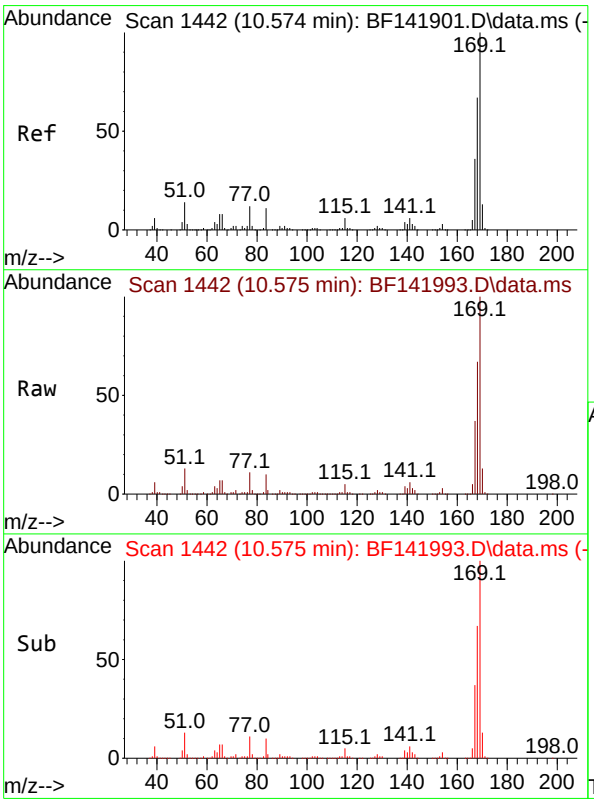
#65
4,6-Dinitro-2-methylphenol
Concen: 49.802 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:198 Resp: 139678

Ion	Ratio	Lower	Upper
198	100		
51	38.7	22.3	62.3
105	40.3	23.0	63.0

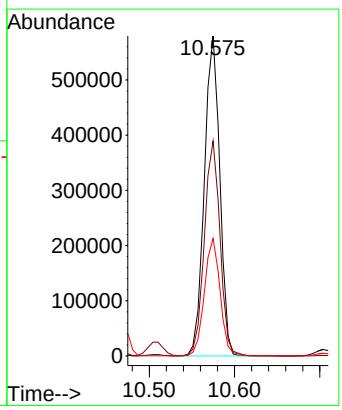


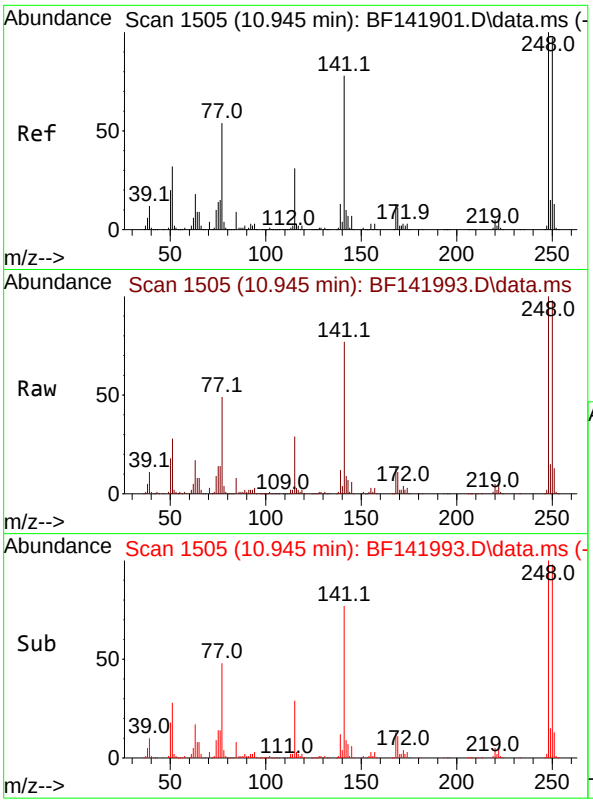


#66
n-Nitrosodiphenylamine
Concen: 47.911 ng
RT: 10.575 min Scan# 1442
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:169 Resp: 729426

Ion	Ratio	Lower	Upper
169	100		
168	67.2	53.7	80.5
167	36.7	29.2	43.8



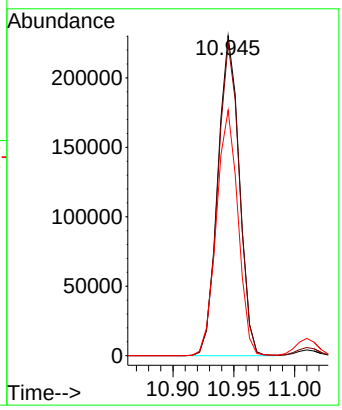


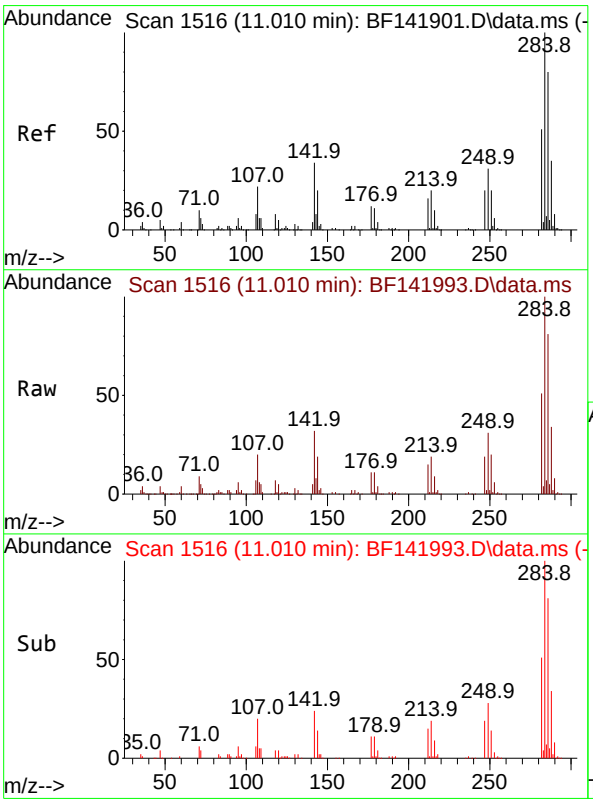
#67
4-Bromophenyl-phenylether
Concen: 47.932 ng
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:248 Resp: 283205

Ion	Ratio	Lower	Upper
248	100		
250	97.5	77.8	116.8
141	76.7	62.6	93.8

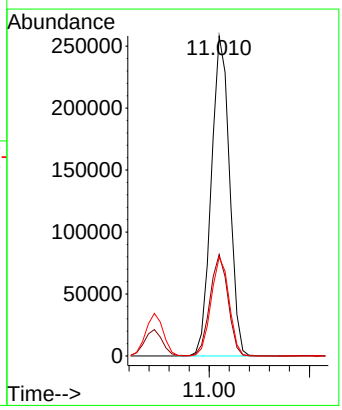


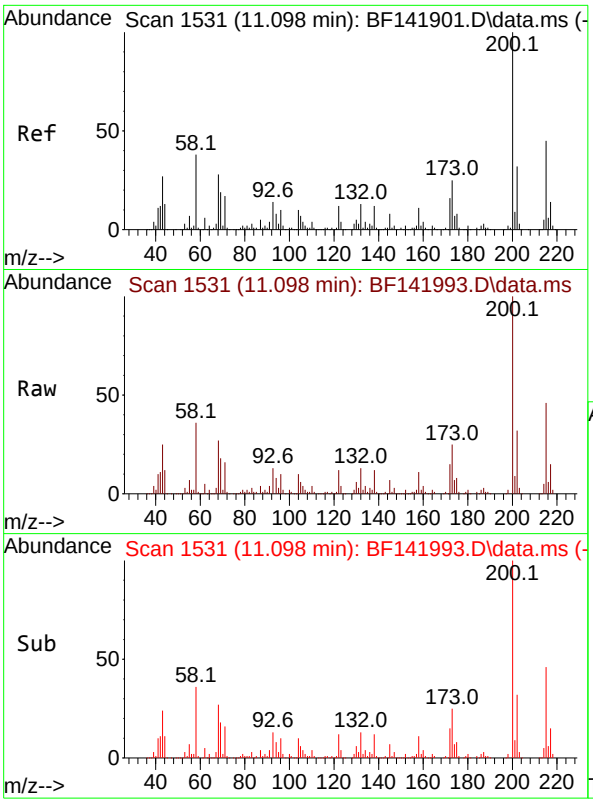


#68
Hexachlorobenzene
Concen: 50.043 ng
RT: 11.010 min Scan# 1516
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:284 Resp: 324295

Ion	Ratio	Lower	Upper
284	100		
142	31.7	27.0	40.6
249	30.9	25.2	37.8



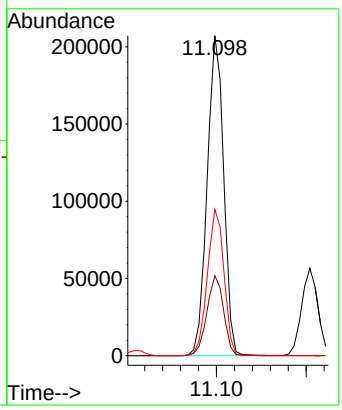


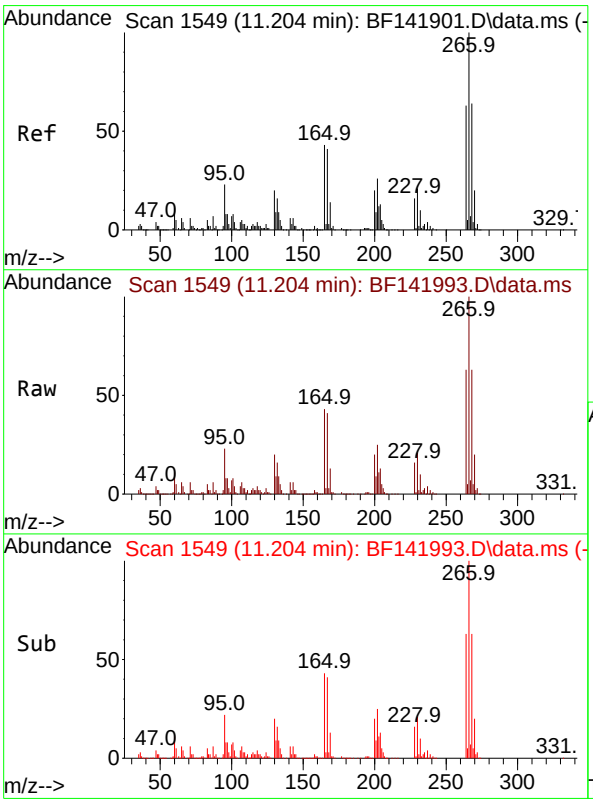
#69
Atrazine
Concen: 56.733 ng
RT: 11.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:200 Resp: 264785

Ion	Ratio	Lower	Upper
200	100		
173	25.0	4.7	44.7
215	45.7	25.4	65.4

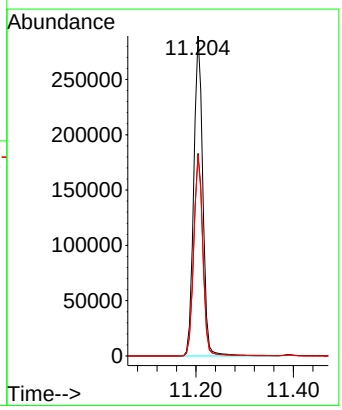


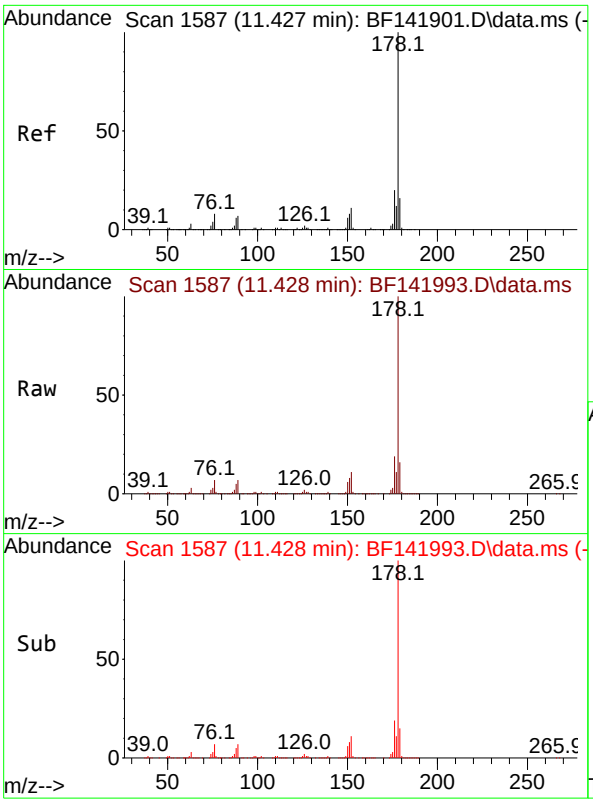


#70
Pentachlorophenol
Concen: 94.300 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:266 Resp: 376512

Ion	Ratio	Lower	Upper
266	100		
268	63.3	51.0	76.6
264	62.8	50.2	75.2



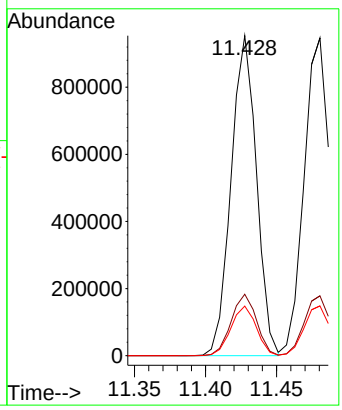


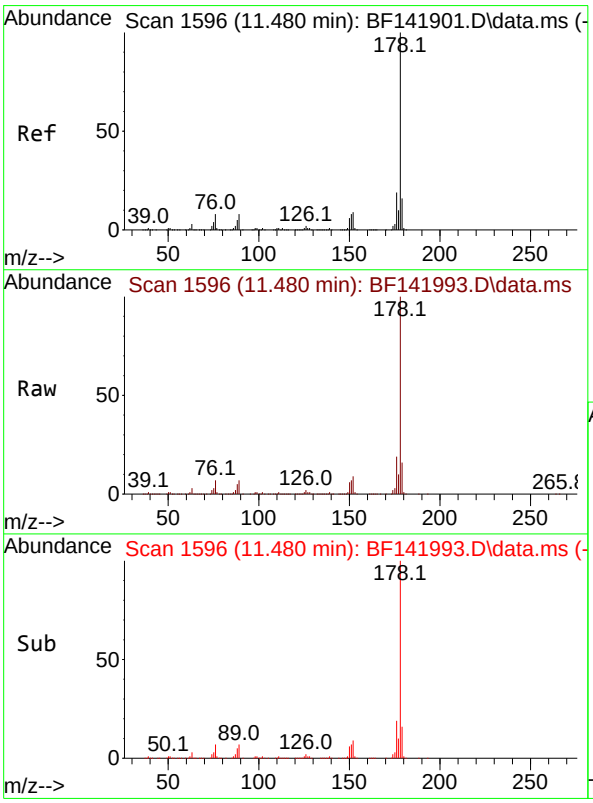
#71
Phenanthrene
Concen: 46.630 ng
RT: 11.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:178 Resp: 1184936

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	15.5	12.6	19.0

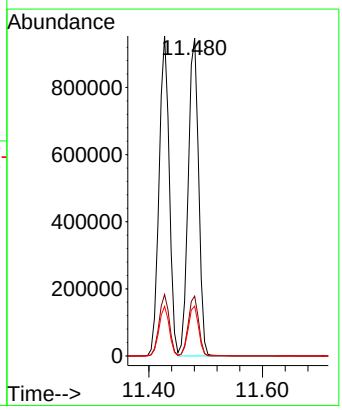


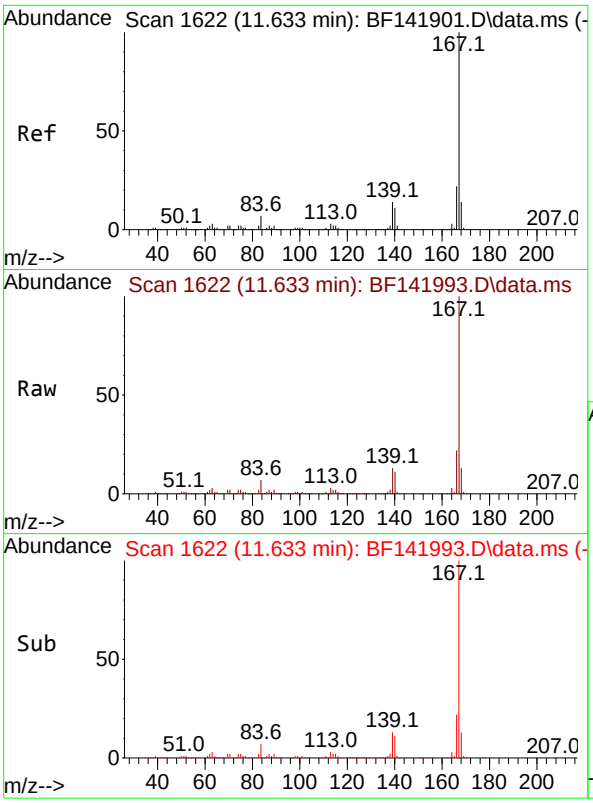


#72
Anthracene
Concen: 47.150 ng
RT: 11.480 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:178 Resp: 1202057

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.1	22.7
179	15.6	12.6	19.0



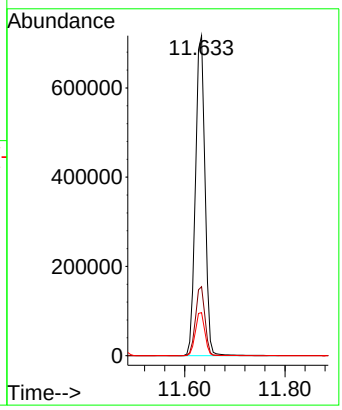


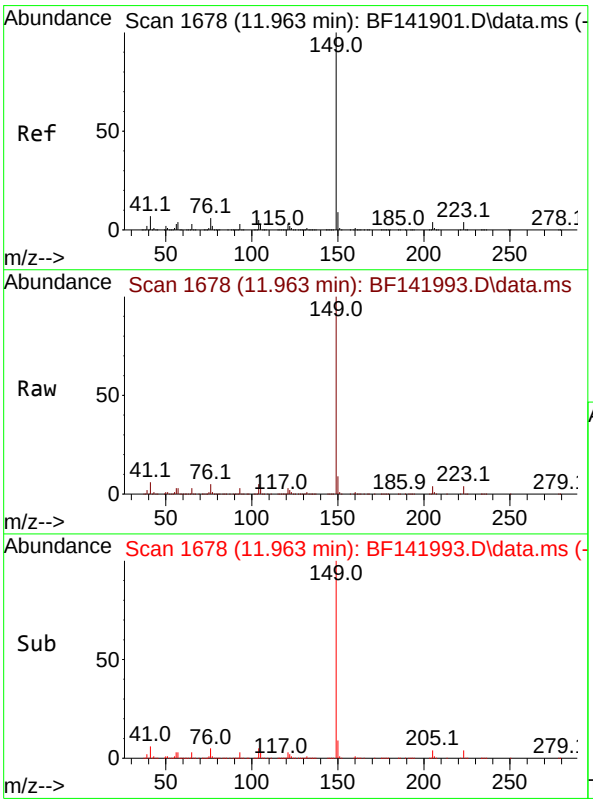
#73
Carbazole
Concen: 42.945 ng
RT: 11.633 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:167 Resp: 944218

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.5	11.0	16.6

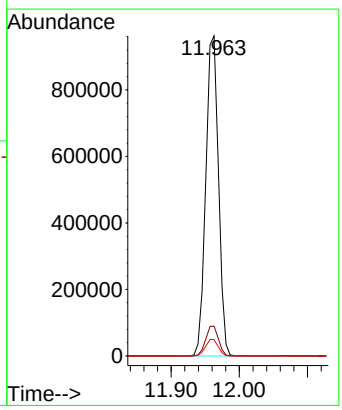


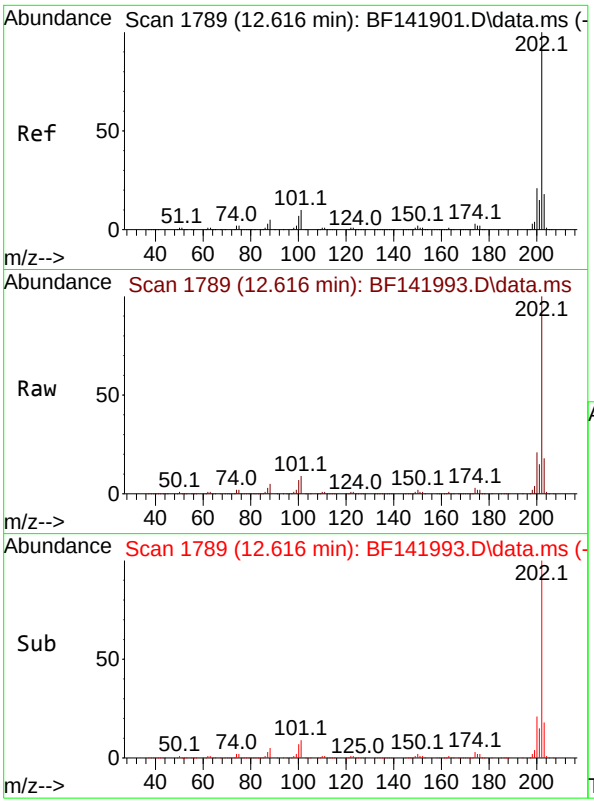


#74
Di-n-butylphthalate
Concen: 42.737 ng
RT: 11.963 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:149 Resp: 1246779

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.6	11.4
104	5.1	4.4	6.6



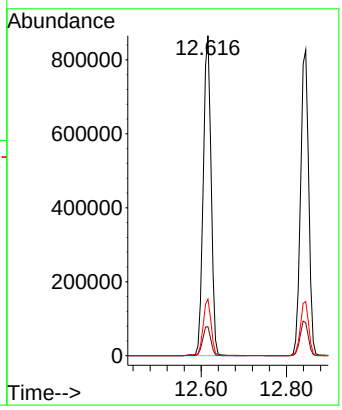


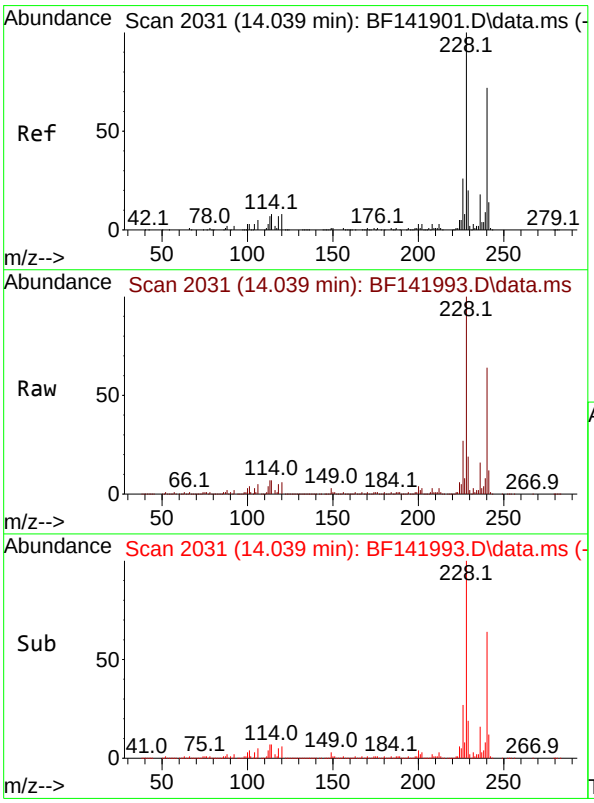
#75
Fluoranthene
Concen: 41.046 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:202 Resp: 1106426

Ion	Ratio	Lower	Upper
202	100		
101	9.0	0.0	29.7
203	17.6	0.0	37.8

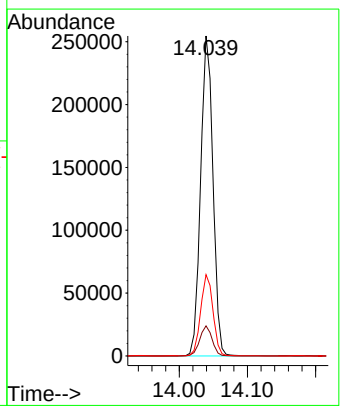


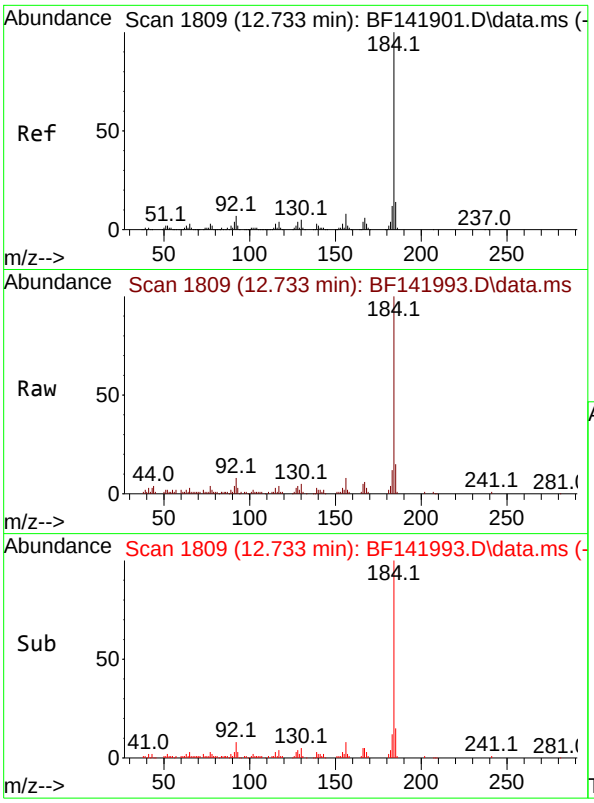


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:240 Resp: 320562

Ion	Ratio	Lower	Upper
240	100		
120	9.4	8.4	12.6
236	25.4	20.5	30.7



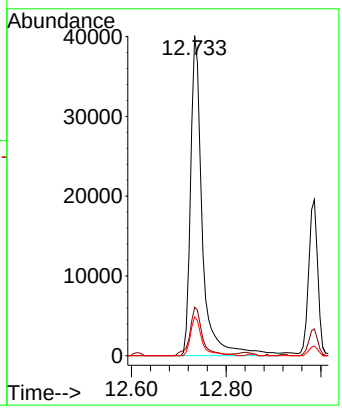


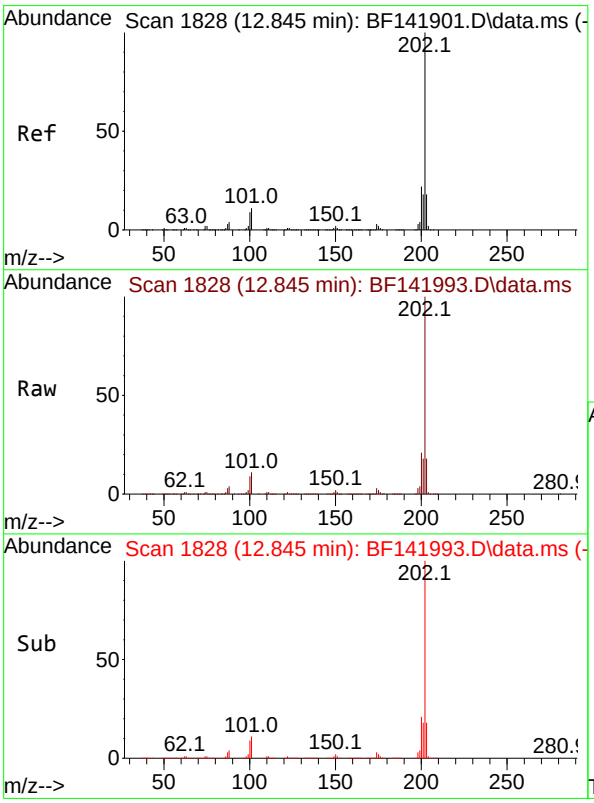
#77
Benzidine
Concen: 15.413 ng
RT: 12.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:184 Resp: 68935

Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.5	17.3
183	12.1	9.7	14.5

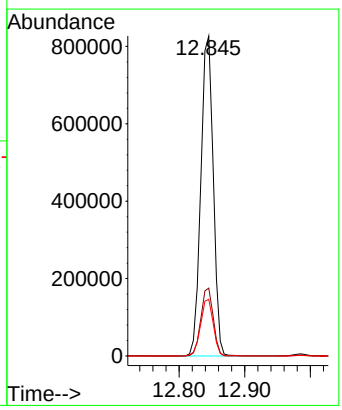


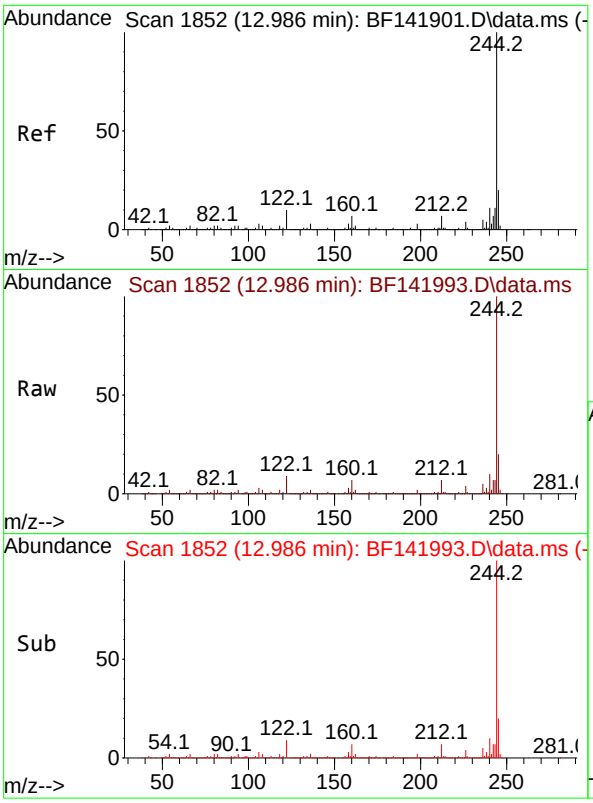


#78
Pyrene
Concen: 39.418 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:202 Resp: 1093026

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.3	25.9
203	17.7	14.4	21.6



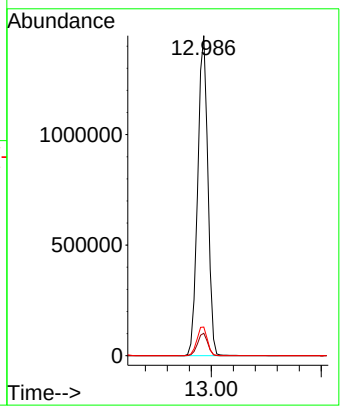


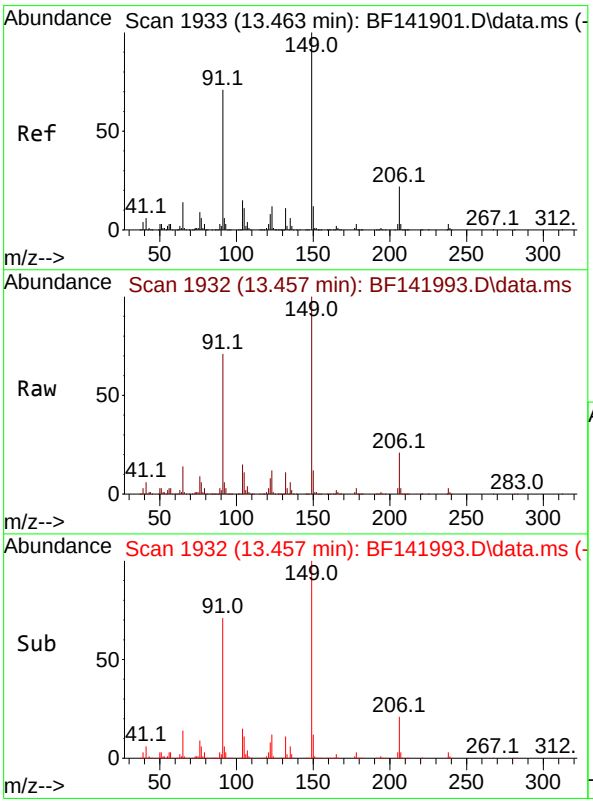
#79
Terphenyl-d14
Concen: 85.689 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:244 Resp: 1857933

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	9.0	7.7	11.5

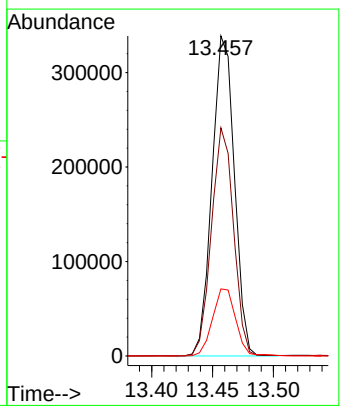


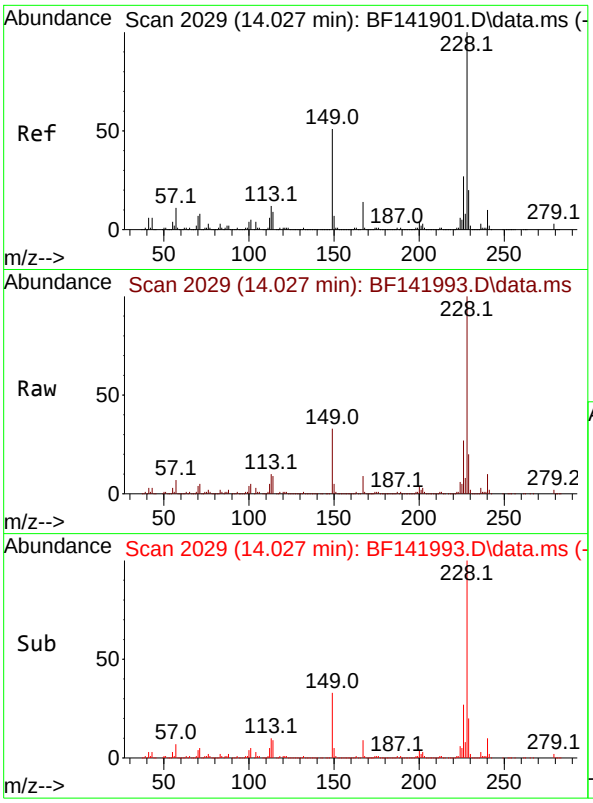


#80
Butylbenzylphthalate
Concen: 39.902 ng
RT: 13.457 min Scan# 1932
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:149 Resp: 433069

Ion	Ratio	Lower	Upper
149	100		
91	71.3	56.5	84.7
206	21.0	17.3	25.9



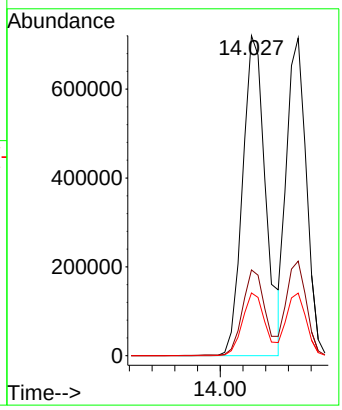


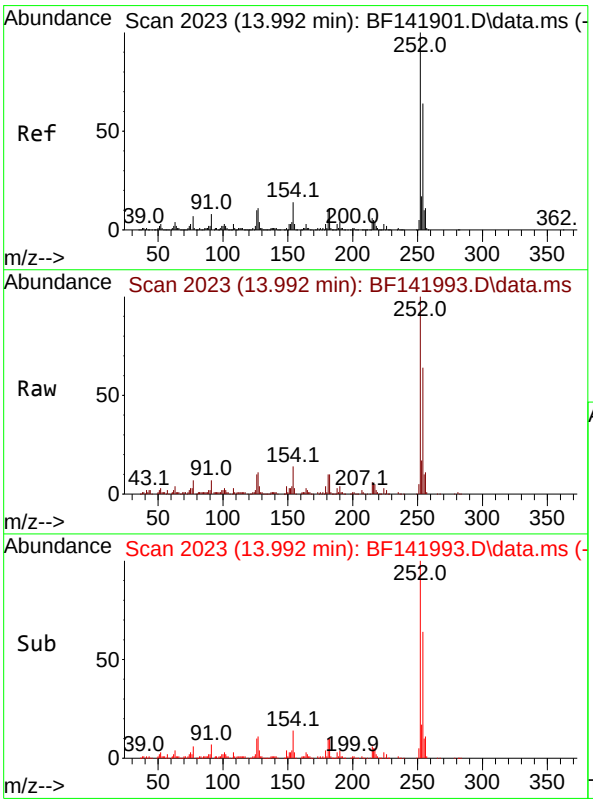
#81
Benzo(a)anthracene
Concen: 48.029 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:228 Resp: 1010312

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.8	32.8
229	19.6	16.0	24.0

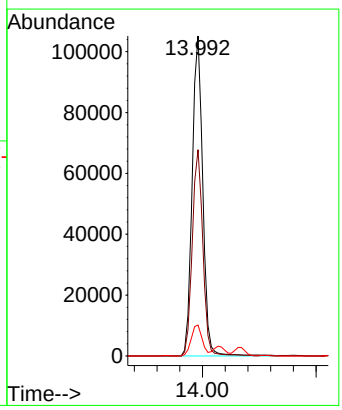


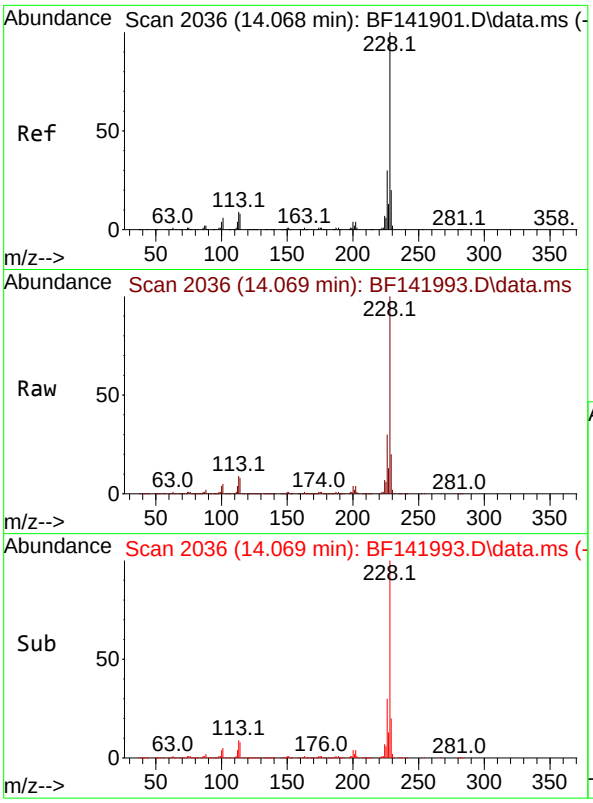


#82
3,3'-Dichlorobenzidine
Concen: 22.534 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:252 Resp: 136983

Ion	Ratio	Lower	Upper
252	100		
254	64.5	51.0	76.6
126	9.7	8.4	12.6



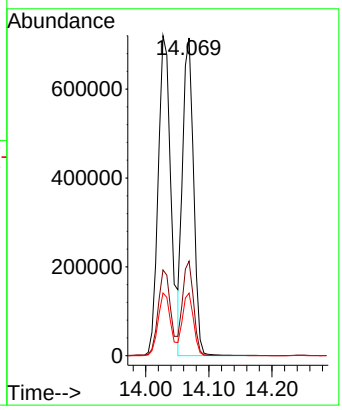


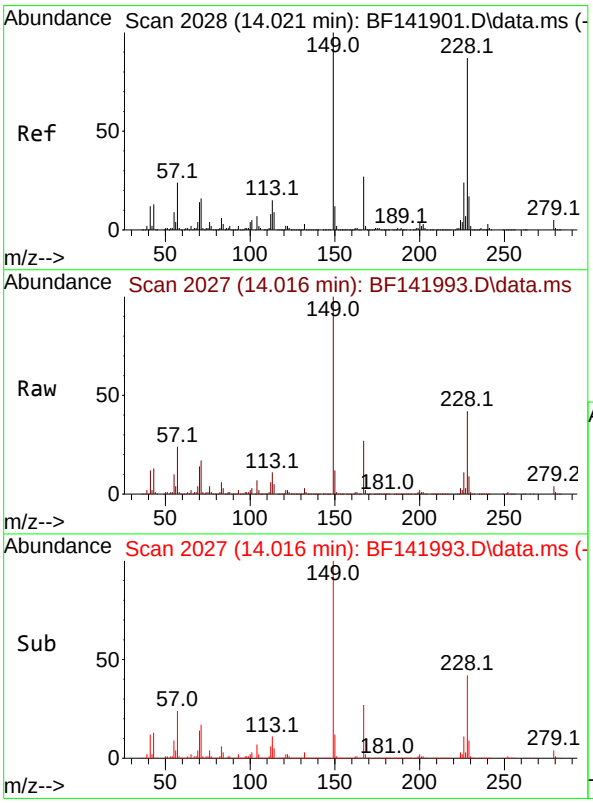
#83
Chrysene
Concen: 45.312 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:228 Resp: 864000

Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.1	36.1
229	19.7	15.7	23.5

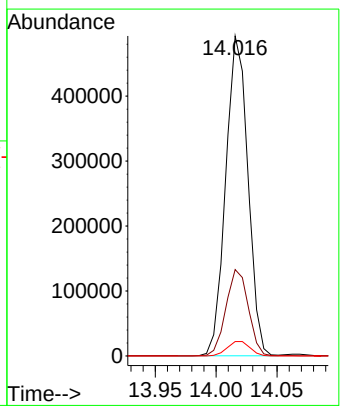


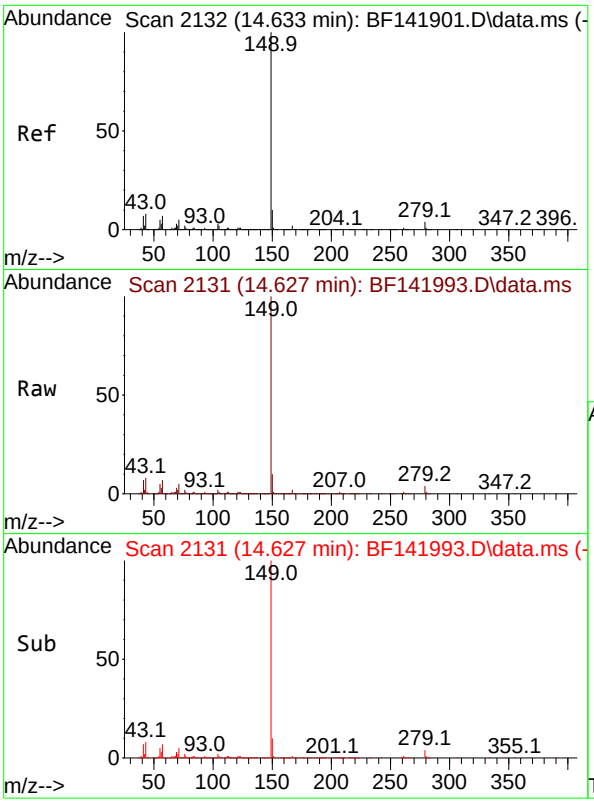


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.728 ng
RT: 14.016 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:149 Resp: 624421

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.4	32.0
279	4.5	3.8	5.6



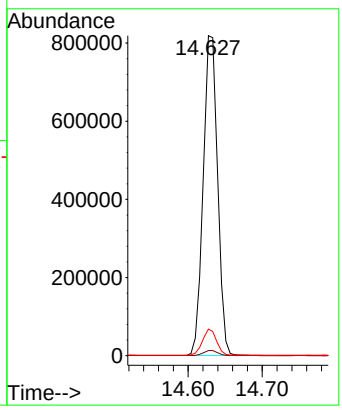


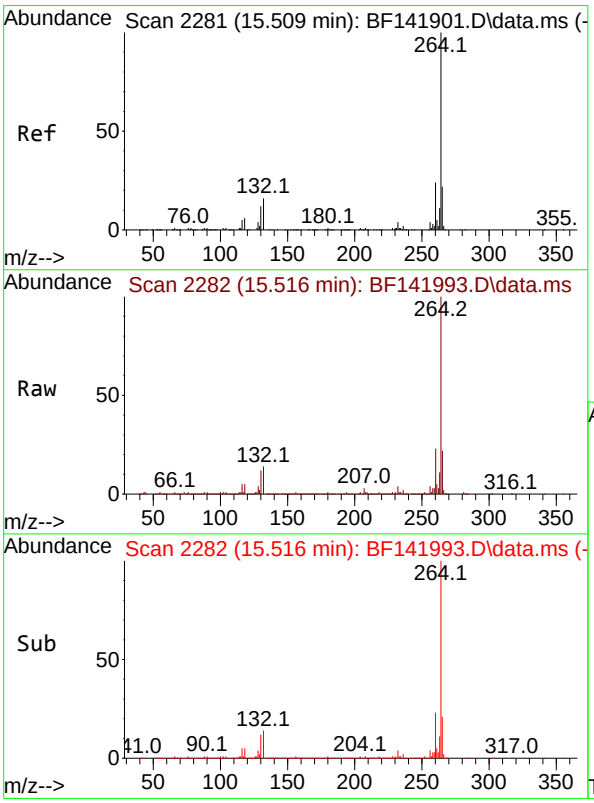
#85
Di-n-octyl phthalate
Concen: 53.136 ng
RT: 14.627 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:149 Resp: 1106352

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.9	6.9	10.3

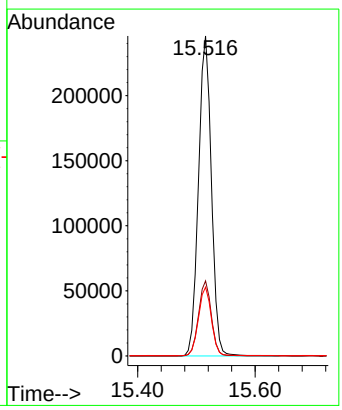


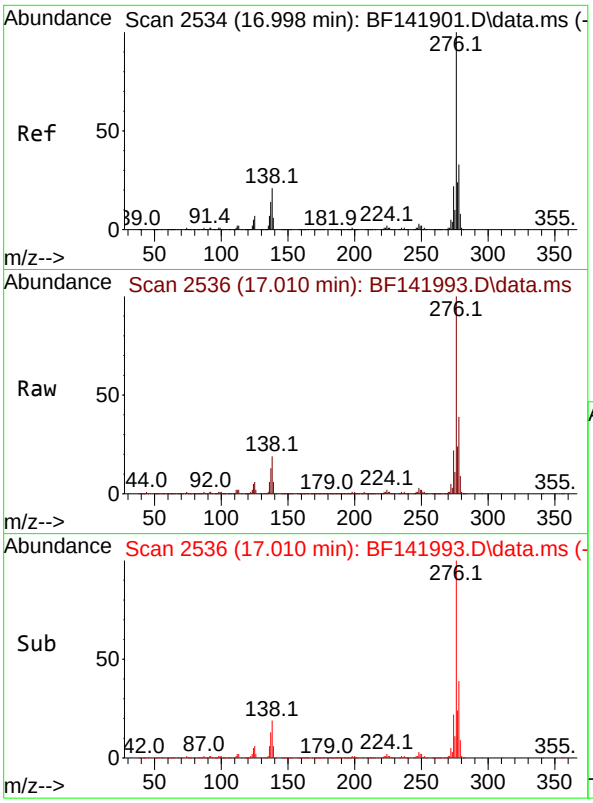


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.516 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:264 Resp: 374866

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.1	28.7
265	21.5	17.5	26.3



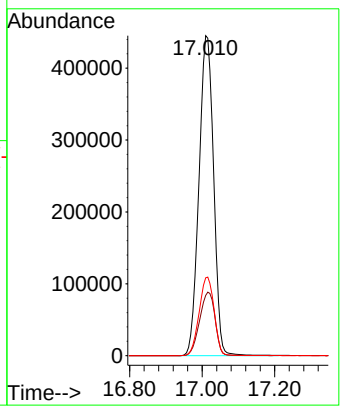


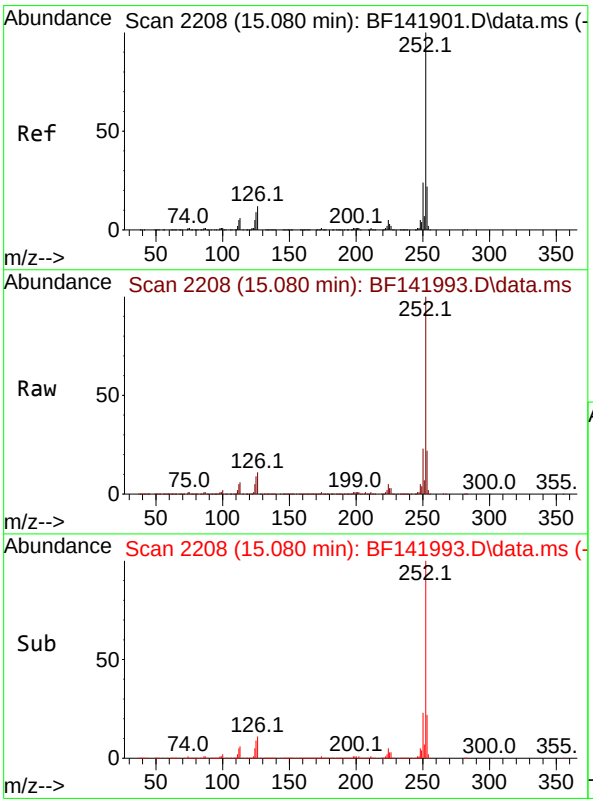
#87
Indeno(1,2,3-cd)pyrene
Concen: 51.446 ng
RT: 17.010 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:276 Resp: 1247538

Ion	Ratio	Lower	Upper
276	100		
138	21.0	18.4	27.6
277	25.2	20.3	30.5

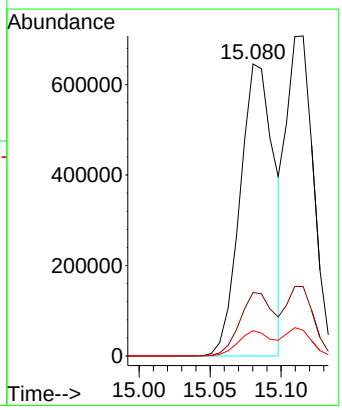


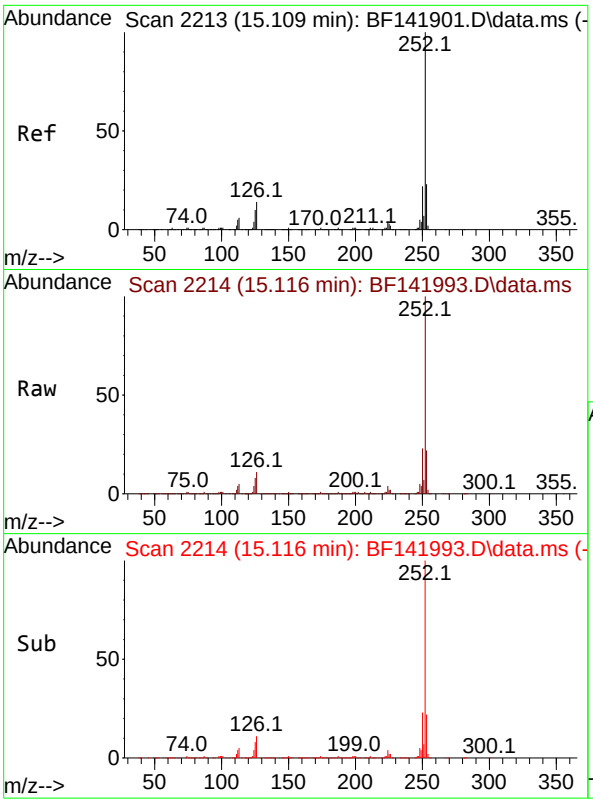


#88
Benzo(b)fluoranthene
Concen: 41.826 ng
RT: 15.080 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:252 Resp: 1074570

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	8.6	7.0	10.4



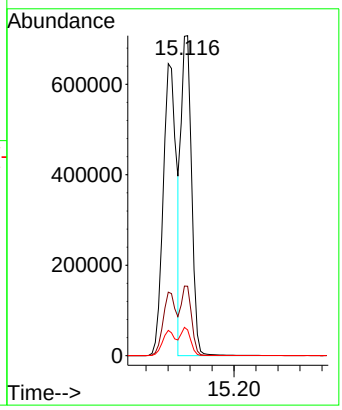


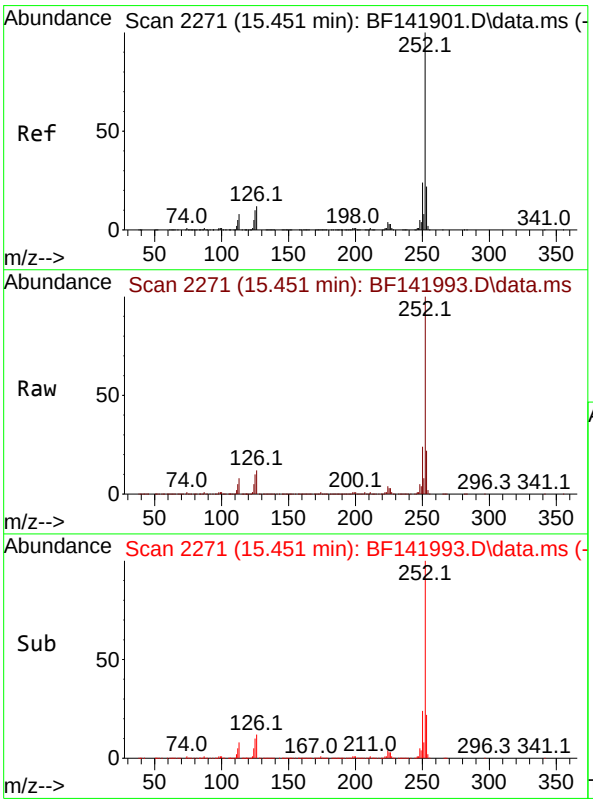
#89
Benzo(k)fluoranthene
Concen: 42.742 ng
RT: 15.116 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:252 Resp: 939725

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	8.0	7.2	10.8

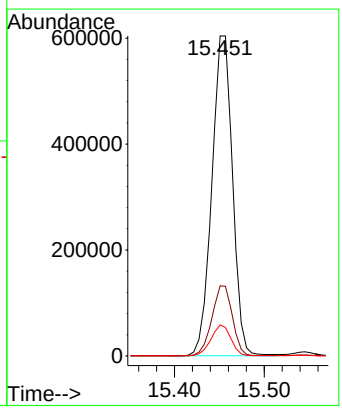


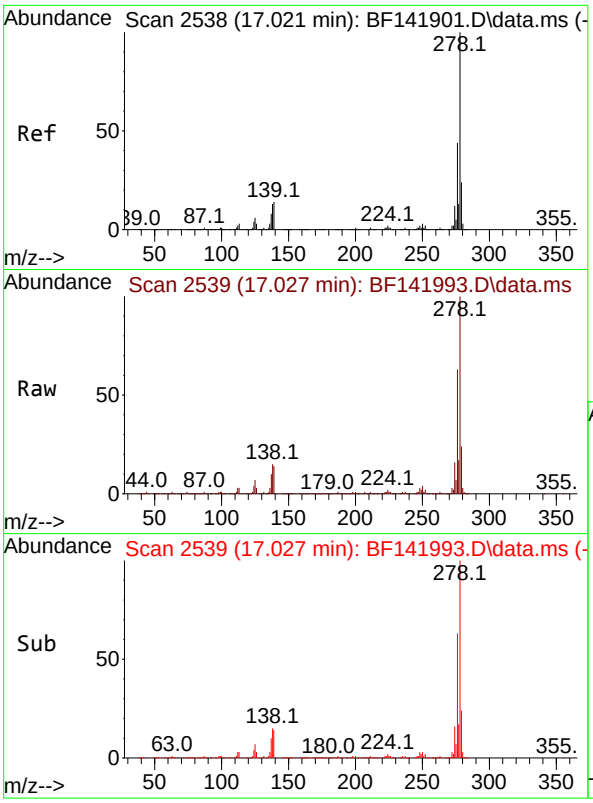


#90
Benzo(a)pyrene
Concen: 48.122 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:252 Resp: 967379

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	9.7	7.8	11.8



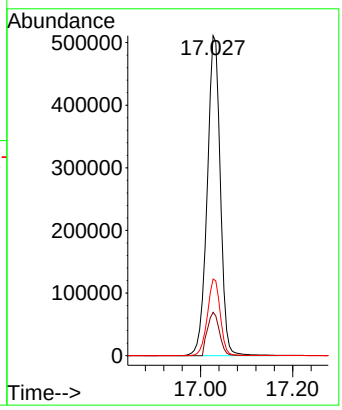


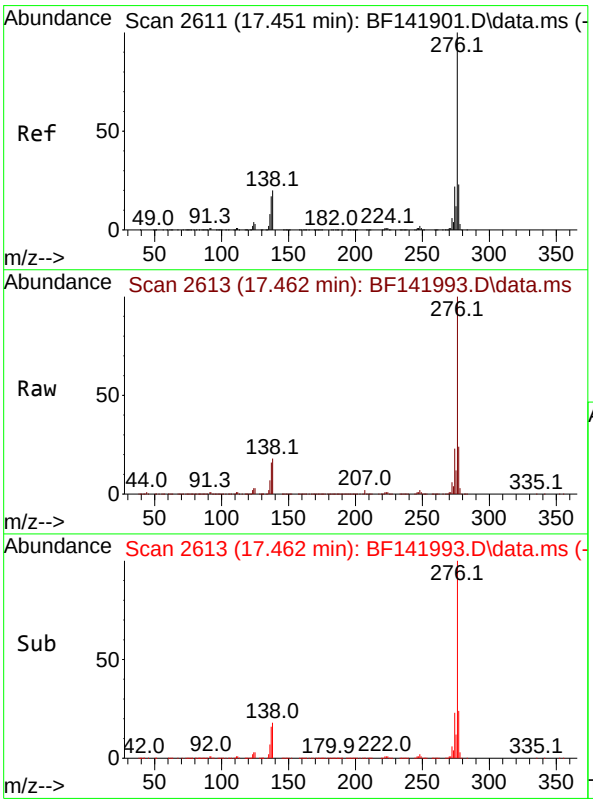
#91
Dibenzo(a,h)anthracene
Concen: 50.667 ng
RT: 17.027 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Instrument :
BNA_F
ClientSampleId :
JC-03-03132025MSD

Tgt Ion:278 Resp: 1013729

Ion	Ratio	Lower	Upper
278	100		
139	13.6	11.4	17.2
279	24.0	18.8	28.2





#92
Benzo(g,h,i)perylene
Concen: 46.929 ng
RT: 17.462 min Scan# 2613
Delta R.T. 0.012 min
Lab File: BF141993.D
Acq: 18 Mar 2025 13:31

Tgt Ion:276 Resp: 927863

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.7	28.1
138	17.9	15.8	23.8

